



## Full wwPDB EM Validation Report ⓘ

Dec 19, 2022 – 04:06 am GMT

PDB ID : 7BHO  
EMDB ID : EMD-12188  
Title : DNA origami signpost designed model  
Authors : Silvester, E.; Vollmer, B.; Prazak, V.; Vasishtan, D.; Machala, E.A.; Whittle, C.; Black, S.; Bath, J.; Turberfield, A.J.; Gruenewald, K.; Baker, L.A.  
Deposited on : 2021-01-11  
Resolution : 36.44 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

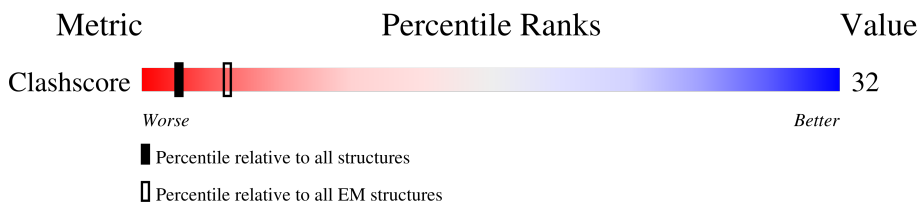
EMDB validation analysis : 0.0.1.dev43  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.3

# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:  
*ELECTRON MICROSCOPY*










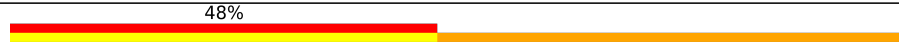
The reported resolution of this entry is 36.44 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A1	57	 5% 44% 51%
2	A2	31	 42% 58%
3	A3	23	 35% 35% 61%
4	A4	28	 39% 25% 71%
5	A5	42	 26% 71%
6	A6	26	 23% 27% 69%
7	A7	37	 16% 27% 70%
8	A8	24	 33% 25% 71%
9	A9	19	 5% 11% 84%
10	AA	23	 48% 48% 52%







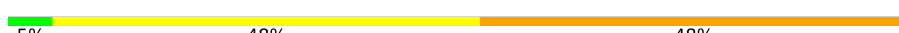








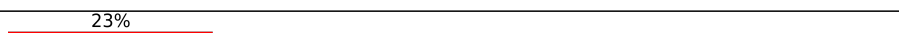
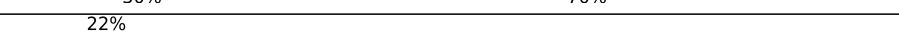




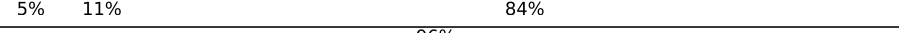



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Mol	Chain	Length	Quality of chain
11	AB	7248	27% 24% 76%
12	AC	18	22% 78%
13	AD	40	8% 25% 72%
14	B1	42	43% 55%
15	B2	18	11% 33% 89% 56%
16	B3	18	67% 33% 67%
17	B4	18	100% 11% 6% 83%
18	B5	38	11% 37% 61%
19	B6	24	8% 38% 63%
20	B7	18	17% 44% 56%
21	B8	27	44% 26% 74%
22	B9	54	70% 30% 67%
23	BA	32	100% 6% 19% 75%
24	BC	37	68% 43% 57%
25	BD	19	100% 5% 37% 58%
26	C1	27	19% 7% 26% 67%
27	C2	18	33% 50% 50%
28	C3	21	33% 43% 57%
29	C5	42	24% 7% 45% 48%
30	C6	45	40% 58%
31	C7	33	18% 21% 79%
32	C8	54	15% 6% 31% 63%
33	C9	27	22% 26% 74%
34	CA	19	58% 5% 26% 68%
35	CC	31	81% 29% 68%









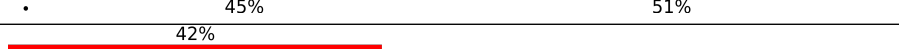


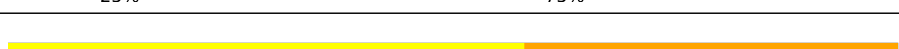

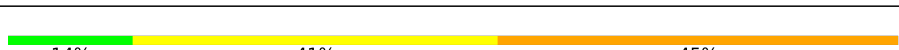
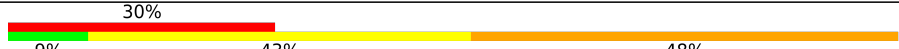










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Mol	Chain	Length	Quality of chain
36	CD	26	
37	D1	42	
38	D2	18	
39	D3	34	
40	D5	21	
41	D6	46	
42	D7	21	
43	D8	46	
44	D9	30	
45	DA	23	
46	DC	18	
47	DD	42	
48	E1	33	
49	E2	43	
50	E3	19	
51	E5	30	
52	E6	37	
53	E7	24	
54	E8	33	
55	E9	41	
56	EA	19	
57	EC	23	
58	ED	38	
59	F1	20	
60	F2	35	

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Mol	Chain	Length	Quality of chain
61	F3	26	 38% 58%
62	F5	48	 8% 23% 69%
63	F6	18	 6% 28% 67% 83%
64	F7	29	 10% 28% 62%
65	F8	18	 6% 33% 61% 44%
66	F9	18	 11% 33% 56% 67%
67	FA	33	 27% 73% 48%
68	FC	19	 5% 26% 68% 47%
69	FD	47	 13% 45% 51% 13%
70	G1	19	 32% 68% 42%
71	G2	18	 6% 44% 50% 78%
72	G3	28	 25% 75%
73	G5	24	 58% 42%
74	G6	33	 21% 79%
75	G7	29	 14% 41% 45%
76	G8	23	 9% 43% 48% 30%
77	G9	19	 26% 74% 42%
78	GA	19	 5% 42% 53% 79%
79	GC	26	 8% 42% 50% 38%
80	GD	18	 6% 61% 39%
81	H1	18	 39% 56% 44%
82	H2	51	 6% 25% 69%
83	H3	42	 5% 31% 67%
84	H5	40	 32% 65%
85	H6	35	 11% 34% 63%

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Mol	Chain	Length	Quality of chain
86	H7	20	
87	H8	21	
88	H9	31	
89	HA	30	
90	HC	24	
91	HD	24	
92	I1	21	
93	I2	49	
94	I3	59	
95	I5	42	
96	I6	19	
97	I7	30	
98	I8	40	
99	I9	30	
100	IA	19	
101	IC	23	
102	ID	33	
103	J1	28	
104	J2	42	
105	J3	30	
106	J5	37	
107	J6	44	
108	J7	56	
109	J8	54	
110	J9	18	

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Mol	Chain	Length	Quality of chain
111	JA	19	74% 5% 16% 79%
112	JC	26	38% 58%
113	JD	38	42% 8% 45% 47%
114	K1	45	29% 67%
115	K2	33	33% 6% 27% 67%
116	K3	18	6% 39% 56%
117	K5	49	37% 61%
118	K6	18	72% 6% 17% 78%
119	K7	43	5% 23% 72%
120	K8	23	22% 48% 48%
121	K9	26	8% 8% 27% 65%
122	KA	51	43% 33% 65%
123	KC	24	42% 58%
124	KD	23	39% 61%
125	L1	56	36% 61%
126	L2	56	59% 7% 39% 54%
127	L3	19	16% 84%
128	L5	23	22% 78%
129	L6	24	21% 25% 71%
130	L7	60	28% 68%
131	L8	24	50% 46%
132	L9	19	47% 37% 63%
133	LA	22	9% 23% 77%
134	LC	18	100% 6% 39% 56%
135	LD	18	6% 6% 33% 61%

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Mol	Chain	Length	Quality of chain
136	M2	21	
137	M3	35	
138	M5	42	
139	M6	25	
140	M7	26	
141	M8	26	
142	M9	23	
143	MA	44	
144	MC	23	
145	MD	58	
146	N2	24	
147	N3	35	
148	N5	31	
149	N6	51	
150	N7	23	
151	N8	21	
152	N9	52	
153	NA	19	
154	NC	38	
155	ND	20	
156	O2	60	
157	O3	24	
158	O5	49	
159	O6	23	
160	O7	52	

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Mol	Chain	Length	Quality of chain
161	O8	58	17% 36% 60%
162	O9	18	6% 28% 50% 44%
163	OA	19	11% 5% 37% 58%
164	OC	24	96% 29% 67%
165	OD	58	14% 36% 62%
166	P2	31	48% 26% 74%
167	P3	38	5% 34% 61%
168	P5	18	6% 39% 56%
169	P6	18	61% 6% 22% 72%
170	P7	18	78% 39% 61%
171	P8	24	71% 17% 83%
172	P9	24	17% 79%
173	PA	38	5% 39% 55%
174	PC	23	57% 26% 74%
175	PD	23	22% 43% 52%
176	Q2	19	100% 5% 47% 47%
177	Q3	23	30% 9% 87%
178	Q5	42	7% 17% 76%
179	Q7	23	70% 13% 83%
180	Q8	24	100% 17% 79%
181	Q9	39	10% 23% 74%
182	QA	28	25% 71%
183	QC	23	39% 22% 78%
184	QD	31	10% 6% 32% 61%
185	R2	24	38% 58%






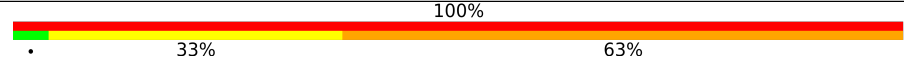


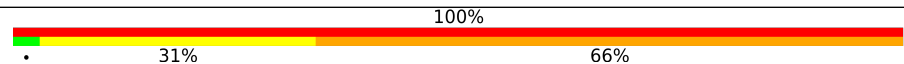



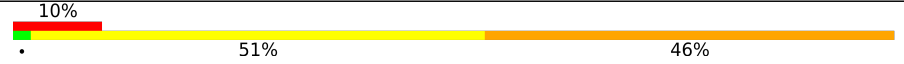
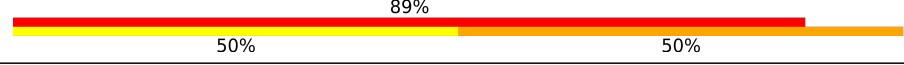

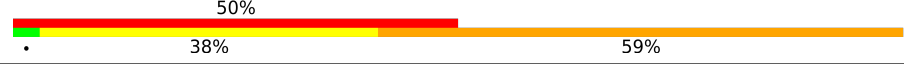

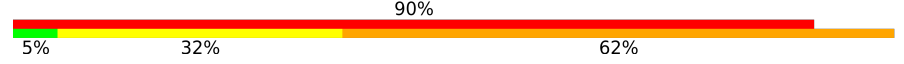




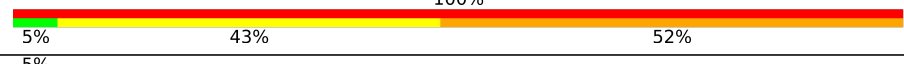
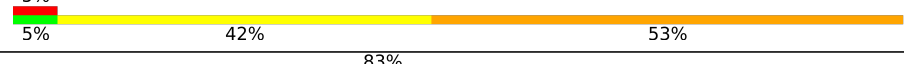

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Mol	Chain	Length	Quality of chain
186	R3	18	6% 28% 67%
187	R5	42	5% 21% 74%
188	R7	32	12% 28% 72%
189	R8	40	5% 40% 55%
190	R9	46	15% 35% 61%
191	RA	27	44% 52%
192	RC	32	25% 72%
193	RD	18	11% 22% 67%
194	S2	30	23% 77%
195	S3	28	29% 71%
196	S5	32	6% 34% 59%
197	S7	24	29% 71%
198	S8	40	40% 72%
199	S9	23	39% 65%
200	SA	24	12% 33% 63%
201	SC	19	11% 5% 47%
202	SD	26	12% 8% 42%
203	T2	24	8% 25% 67%
204	T3	45	9% 33% 67%
205	T5	24	38% 58%
206	T7	56	34% 62%
207	T8	24	100% 63%
208	T9	18	44% 17% 83%
209	TA	42	21% 5% 31% 64%
210	TC	26	42% 46% 50%




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Mol	Chain	Length	Quality of chain
211	TD	42	
212	U2	24	
213	U3	26	
214	U5	42	
215	U7	23	
216	U8	24	
217	U9	24	
218	UA	19	
219	UC	32	
220	UD	23	
221	V2	27	
222	V3	25	
223	V5	41	
224	V7	18	
225	V8	22	
226	V9	34	
227	VA	29	
228	VC	40	
229	VD	21	
230	W3	49	
231	W5	31	
232	W7	23	
233	W8	21	
234	W9	19	
235	WD	18	

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Mol	Chain	Length	Quality of chain
236	X5	21	
237	X7	23	
238	X9	59	

## 2 Entry composition i

There are 238 unique types of molecules in this entry. The entry contains 459340 atoms, of which 163115 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
1	A1	57	1803	556	637	227	326	57	0	0

- Molecule 2 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
2	A2	31	986	304	350	116	185	31	0	0

- Molecule 3 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
3	A3	23	732	225	259	87	138	23	0	0

- Molecule 4 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
4	A4	28	891	275	317	103	168	28	0	0

- Molecule 5 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
5	A5	42	1339	413	478	148	258	42	0	0

- Molecule 6 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
6	A6	26	826	254	291	103	152	26	0	0

- Molecule 7 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
7	A7	37	1177	364	421	131	224	37	0	0

- Molecule 8 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
8	A8	24	769	238	273	89	145	24	0	0

- Molecule 9 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
9	A9	19	613	190	218	68	118	19	0	0

- Molecule 10 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
10	AA	23	731	224	255	97	132	23	0	0

- Molecule 11 is a DNA chain called DNA scaffold.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
11	AB	7248	230412	70951	82147	25925	44141	7248	0	0

- Molecule 12 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
12	AC	18	574	177	204	66	109	18	0	0

- Molecule 13 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
13	AD	40	1278	394	452	152	240	40	0	0

- Molecule 14 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
14	B1	42	1342	413	469	175	243	42	0	0

- Molecule 15 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
15	B2	18	570	176	200	76	100	18	0	0

- Molecule 16 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
16	B3	18	581	180	205	69	109	18	0	0

- Molecule 17 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
17	B4	18	575	177	203	69	108	18	0	0

- Molecule 18 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
18	B5	38	1206	371	427	145	225	38	0	0

- Molecule 19 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
19	B6	24	766	237	272	90	143	24	0	0

- Molecule 20 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
20	B7	18	567	174	204	60	111	18	0	0

- Molecule 21 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
21	B8	27	860	266	309	91	167	27	0	0

- Molecule 22 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
22	B9	54	1722	529	606	212	321	54	0	0

- Molecule 23 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
23	BA	32	1020	314	362	118	194	32	0	0

- Molecule 24 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
24	BC	37	1179	362	411	157	212	37	0	0

- Molecule 25 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
25	BD	19	607	188	212	82	106	19	0	0

- Molecule 26 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
26	C1	27	852	263	306	94	162	27	0	0

- Molecule 27 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
27	C2	18	570	175	201	71	105	18	0	0

- Molecule 28 is a DNA chain called DNA.



Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
28	C3	21	675	207	233	93	121	21	0	0

- Molecule 29 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
29	C5	42	1344	416	470	178	238	42	0	0

- Molecule 30 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
30	C6	45	1433	440	503	181	264	45	0	0

- Molecule 31 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
31	C7	33	1055	326	377	115	204	33	0	0

- Molecule 32 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
32	C8	54	1719	528	605	213	319	54	0	0

- Molecule 33 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
33	C9	27	863	266	304	106	160	27	0	0

- Molecule 34 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
34	CA	19	607	188	215	73	112	19	0	0

- Molecule 35 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
35	CC	31	982	302	348	118	183	31	0	0

- Molecule 36 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
36	CD	26	826	254	293	97	156	26	0	0

- Molecule 37 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
37	D1	42	1314	402	469	153	248	42	0	0

- Molecule 38 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
38	D2	18	567	173	198	76	102	18	0	0

- Molecule 39 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
39	D3	34	1084	334	383	131	202	34	0	0

- Molecule 40 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
40	D5	21	672	208	237	83	123	21	0	0

- Molecule 41 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
41	D6	46	1461	450	517	177	271	46	0	0

- Molecule 42 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
42	D7	21	672	206	235	85	125	21	0	0

- Molecule 43 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
43	D8	46	1456	448	517	173	272	46	0	0

- Molecule 44 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
44	D9	30	954	293	334	124	173	30	0	0

- Molecule 45 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
45	DA	23	730	224	256	94	133	23	0	0

- Molecule 46 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
46	DC	18	571	175	202	68	108	18	0	0

- Molecule 47 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
47	DD	42	1328	408	467	171	240	42	0	0

- Molecule 48 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
48	E1	33	1041	319	368	128	193	33	0	0

- Molecule 49 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
49	E2	43	1367	421	486	158	259	43	0	0

- Molecule 50 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
50	E3	19	605	187	213	77	109	19	0	0

- Molecule 51 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
51	E5	30	958	295	340	110	183	30	0	0

- Molecule 52 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
52	E6	37	1158	354	411	141	215	37	0	0

- Molecule 53 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
53	E7	24	769	238	273	89	145	24	0	0

- Molecule 54 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
54	E8	33	1044	322	378	104	207	33	0	0

- Molecule 55 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
55	E9	41	1307	403	463	155	245	41	0	0

- Molecule 56 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
56	EA	19	606	186	216	66	119	19	0	0

- Molecule 57 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
57	EC	23	735	226	260	86	140	23	0	0

- Molecule 58 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
58	ED	38	1206	371	427	145	225	38	0	0

- Molecule 59 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
59	F1	20	627	192	223	75	117	20	0	0

- Molecule 60 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
60	F2	35	1108	340	393	131	209	35	0	0

- Molecule 61 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
61	F3	26	823	252	288	108	149	26	0	0

- Molecule 62 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
62	F5	48	1519	470	547	163	291	48	0	0

- Molecule 63 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
63	F6	18	573	176	199	79	101	18	0	0

- Molecule 64 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
64	F7	29	925	286	328	110	172	29	0	0

- Molecule 65 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
65	F8	18	567	174	201	69	105	18	0	0

- Molecule 66 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
66	F9	18	575	177	201	75	104	18	0	0

- Molecule 67 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
67	FA	33	1059	327	373	129	197	33	0	0

- Molecule 68 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
68	FC	19	609	188	214	76	112	19	0	0

- Molecule 69 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
69	FD	47	1495	461	523	199	265	47	0	0

- Molecule 70 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
70	G1	19	602	185	213	73	112	19	0	0

- Molecule 71 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
71	G2	18	568	175	200	74	101	18	0	0

- Molecule 72 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
72	G3	28	888	273	317	99	171	28	0	0

- Molecule 73 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
73	G5	24	760	233	268	94	141	24	0	0

- Molecule 74 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
74	G6	33	1053	325	375	119	201	33	0	0

- Molecule 75 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
75	G7	29	914	282	323	117	163	29	0	0

- Molecule 76 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
76	G8	23	743	228	256	102	134	23	0	0

- Molecule 77 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
77	G9	19	605	186	216	66	118	19	0	0

- Molecule 78 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
78	GA	19	608	187	213	77	112	19	0	0

- Molecule 79 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
79	GC	26	826	253	291	101	155	26	0	0

- Molecule 80 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
80	GD	18	576	177	201	75	105	18	0	0

- Molecule 81 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
81	H1	18	578	179	204	70	107	18	0	0

- Molecule 82 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
82	H2	51	1612	495	573	189	304	51	0	0

- Molecule 83 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
83	H3	42	1336	412	472	164	246	42	0	0

- Molecule 84 is a DNA chain called DNA.



Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
84	H5	40	1264	388	451	143	242	40	0	0

- Molecule 85 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
85	H6	35	1110	341	389	145	200	35	0	0

- Molecule 86 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
86	H7	20	640	197	226	76	121	20	0	0

- Molecule 87 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
87	H8	21	667	206	234	88	118	21	0	0

- Molecule 88 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
88	H9	31	989	303	346	126	183	31	0	0

- Molecule 89 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
89	HA	30	961	297	338	120	176	30	0	0

- Molecule 90 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
90	HC	24	754	230	266	94	140	24	0	0

- Molecule 91 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
91	HD	24	Total	C	H	N	O	P	0	0
			764	235	270	92	143	24		

- Molecule 92 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
92	I1	21	Total	C	H	N	O	P	0	0
			672	207	235	87	122	21		

- Molecule 93 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
93	I2	49	Total	C	H	N	O	P	0	0
			1553	477	549	189	289	49		

- Molecule 94 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
94	I3	59	Total	C	H	N	O	P	0	0
			1879	577	658	242	343	59		

- Molecule 95 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
95	I5	42	Total	C	H	N	O	P	0	0
			1351	417	471	177	244	42		

- Molecule 96 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
96	I6	19	Total	C	H	N	O	P	0	0
			603	186	218	60	120	19		

- Molecule 97 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
97	I7	30	Total	C	H	N	O	P	0	0
			953	292	335	119	177	30		

- Molecule 98 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
98	I8	40	1274	393	450	156	235	40	0	0

- Molecule 99 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
99	I9	30	955	293	335	121	176	30	0	0

- Molecule 100 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
100	IA	19	602	186	214	72	111	19	0	0

- Molecule 101 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
101	IC	23	729	224	259	85	138	23	0	0

- Molecule 102 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
102	ID	33	1061	327	372	132	197	33	0	0

- Molecule 103 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
103	J1	28	888	273	314	108	165	28	0	0

- Molecule 104 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
104	J2	42	1321	405	468	162	244	42	0	0

- Molecule 105 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
105	J3	30	952	295	344	98	185	30	0	0

- Molecule 106 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
106	J5	37	1179	362	411	157	212	37	0	0

- Molecule 107 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
107	J6	44	1400	432	492	180	252	44	0	0

- Molecule 108 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
108	J7	56	1785	550	631	215	333	56	0	0

- Molecule 109 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
109	J8	54	1723	530	605	217	317	54	0	0

- Molecule 110 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
110	J9	18	568	174	201	69	106	18	0	0

- Molecule 111 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
111	JA	19	605	186	213	75	112	19	0	0

- Molecule 112 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
112	JC	26	826	255	294	96	155	26	0	0

- Molecule 113 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
113	JD	38	1216	374	424	160	220	38	0	0

- Molecule 114 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
114	K1	45	1433	443	507	175	263	45	0	0

- Molecule 115 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
115	K2	33	1049	323	374	118	201	33	0	0

- Molecule 116 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
116	K3	18	570	175	200	74	103	18	0	0

- Molecule 117 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
117	K5	49	1548	475	553	173	298	49	0	0

- Molecule 118 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
118	K6	18	571	176	205	61	111	18	0	0

- Molecule 119 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
119	K7	43	1371	422	487	157	262	43	0	0

- Molecule 120 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
120	K8	23	729	224	258	88	136	23	0	0

- Molecule 121 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
121	K9	26	828	256	294	98	154	26	0	0

- Molecule 122 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
122	KA	51	1619	499	575	191	303	51	0	0

- Molecule 123 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
123	KC	24	772	238	270	98	142	24	0	0

- Molecule 124 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
124	KD	23	732	226	259	89	135	23	0	0

- Molecule 125 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
125	L1	56	1787	550	628	224	329	56	0	0

- Molecule 126 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
126	L2	56	1772	546	627	219	324	56	0	0

- Molecule 127 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
127	L3	19	598	184	216	62	117	19	0	0

- Molecule 128 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
128	L5	23	727	223	259	83	139	23	0	0

- Molecule 129 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
129	L6	24	765	237	274	84	146	24	0	0

- Molecule 130 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
130	L7	60	1915	593	677	235	350	60	0	0

- Molecule 131 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
131	L8	24	765	236	268	100	137	24	0	0

- Molecule 132 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
132	L9	19	607	188	214	76	110	19	0	0

- Molecule 133 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
133	LA	22	700	215	251	73	139	22	0	0

- Molecule 134 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
134	LC	18	569	174	200	72	105	18	0	0

- Molecule 135 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
135	LD	18	572	177	205	63	109	18	0	0

- Molecule 136 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
136	M2	21	671	207	239	75	129	21	0	0

- Molecule 137 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
137	M3	35	1113	344	390	148	196	35	0	0

- Molecule 138 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
138	M5	42	1335	413	476	154	250	42	0	0

- Molecule 139 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
139	M6	25	784	240	278	96	145	25	0	0

- Molecule 140 is a DNA chain called DNA.



Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
140	M7	26	821	253	290	104	148	26	0	0

- Molecule 141 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
141	M8	26	824	255	295	93	155	26	0	0

- Molecule 142 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
142	M9	23	735	228	261	87	136	23	0	0

- Molecule 143 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
143	MA	44	1382	422	488	172	256	44	0	0

- Molecule 144 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
144	MC	23	739	227	263	79	147	23	0	0

- Molecule 145 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
145	MD	58	1836	566	652	220	340	58	0	0

- Molecule 146 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
146	N2	24	763	235	268	98	138	24	0	0

- Molecule 147 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
147	N3	35	1104	338	392	130	209	35	0	0

- Molecule 148 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
148	N5	31	990	305	348	124	182	31	0	0

- Molecule 149 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
149	N6	51	1615	498	577	183	306	51	0	0

- Molecule 150 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
150	N7	23	730	223	256	92	136	23	0	0

- Molecule 151 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
151	N8	21	663	203	235	79	125	21	0	0

- Molecule 152 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
152	N9	52	1671	516	588	204	311	52	0	0

- Molecule 153 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
153	NA	19	609	187	210	86	107	19	0	0

- Molecule 154 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
154	NC	38	1210	372	429	141	230	38	0	0

- Molecule 155 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
155	ND	20	644	199	225	83	117	20	0	0

- Molecule 156 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
156	O2	60	1895	581	669	235	350	60	0	0

- Molecule 157 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
157	O3	24	769	238	269	101	137	24	0	0

- Molecule 158 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
158	O5	49	1556	480	549	195	283	49	0	0

- Molecule 159 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
159	O6	23	731	225	260	84	139	23	0	0

- Molecule 160 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
160	O7	52	1655	509	582	208	304	52	0	0

- Molecule 161 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
161	O8	58	1841	568	653	221	341	58	0	0

- Molecule 162 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
162	O9	18	567	175	201	71	102	18	0	0

- Molecule 163 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
163	OA	19	601	185	212	76	109	19	0	0

- Molecule 164 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
164	OC	24	749	229	268	86	142	24	0	0

- Molecule 165 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
165	OD	58	1846	571	649	239	329	58	0	0

- Molecule 166 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
166	P2	31	981	301	353	101	195	31	0	0

- Molecule 167 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
167	P3	38	1197	368	427	139	225	38	0	0

- Molecule 168 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
168	P5	18	571	175	202	68	108	18	0	0

- Molecule 169 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
169	P6	18	573	175	200	74	106	18	0	0

- Molecule 170 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
170	P7	18	574	178	203	71	104	18	0	0

- Molecule 171 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
171	P8	24	756	234	277	69	152	24	0	0

- Molecule 172 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
172	P9	24	762	235	276	74	153	24	0	0

- Molecule 173 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
173	PA	38	1208	373	426	152	219	38	0	0

- Molecule 174 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
174	PC	23	734	225	258	90	138	23	0	0

- Molecule 175 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
175	PD	23	729	224	256	94	132	23	0	0

- Molecule 176 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
176	Q2	19	605	188	214	76	108	19	0	0

- Molecule 177 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
177	Q3	23	732	226	262	80	141	23	0	0

- Molecule 178 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
178	Q5	42	1335	411	476	150	256	42	0	0

- Molecule 179 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
179	Q7	23	731	225	259	87	137	23	0	0

- Molecule 180 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
180	Q8	24	758	233	270	88	143	24	0	0

- Molecule 181 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
181	Q9	39	1235	382	443	137	234	39	0	0

- Molecule 182 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
182	QA	28	895	275	313	115	164	28	0	0

- Molecule 183 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
183	QC	23	732	226	260	86	137	23	0	0

- Molecule 184 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
184	QD	31	977	302	351	109	184	31	0	0

- Molecule 185 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
185	R2	24	769	237	268	102	138	24	0	0

- Molecule 186 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
186	R3	18	571	175	202	68	108	18	0	0

- Molecule 187 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
187	R5	42	1324	405	468	162	247	42	0	0

- Molecule 188 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
188	R7	32	1023	314	359	127	191	32	0	0

- Molecule 189 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
189	R8	40	1266	391	451	149	235	40	0	0

- Molecule 190 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
190	R9	46	1467	455	521	175	270	46	0	0

- Molecule 191 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
191	RA	27	859	264	303	105	160	27	0	0

- Molecule 192 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
192	RC	32	1009	310	361	113	193	32	0	0

- Molecule 193 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
193	RD	18	570	177	203	69	103	18	0	0

- Molecule 194 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
194	S2	30	958	295	337	119	177	30	0	0

- Molecule 195 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
195	S3	28	893	275	314	112	164	28	0	0

- Molecule 196 is a DNA chain called DNA.



Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
196	S5	32	1014	312	356	132	182	32	0	0

- Molecule 197 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
197	S7	24	749	229	268	86	142	24	0	0

- Molecule 198 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
198	S8	40	1269	392	452	148	237	40	0	0

- Molecule 199 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
199	S9	23	733	225	255	99	131	23	0	0

- Molecule 200 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
200	SA	24	762	234	269	93	142	24	0	0

- Molecule 201 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
201	SC	19	604	186	211	81	107	19	0	0

- Molecule 202 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
202	SD	26	827	255	290	108	148	26	0	0

- Molecule 203 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
203	T2	24	763	235	271	89	144	24	0	0

- Molecule 204 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
204	T3	45	1425	435	506	162	277	45	0	0

- Molecule 205 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
205	T5	24	750	230	266	94	136	24	0	0

- Molecule 206 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
206	T7	56	1793	552	623	243	319	56	0	0

- Molecule 207 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
207	T8	24	767	236	270	94	143	24	0	0

- Molecule 208 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
208	T9	18	568	176	206	58	110	18	0	0

- Molecule 209 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
209	TA	42	1336	409	468	170	247	42	0	0

- Molecule 210 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
210	TC	26	822	254	290	106	146	26	0	0

- Molecule 211 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
211	TD	42	1339	414	478	150	255	42	0	0

- Molecule 212 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
212	U2	24	760	234	271	87	144	24	0	0

- Molecule 213 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
213	U3	26	834	256	291	107	154	26	0	0

- Molecule 214 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
214	U5	42	1333	411	477	147	256	42	0	0

- Molecule 215 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
215	U7	23	732	226	262	80	141	23	0	0

- Molecule 216 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
216	U8	24	766	236	270	94	142	24	0	0

- Molecule 217 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
217	U9	24	763	234	270	90	145	24	0	0

- Molecule 218 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
218	UA	19	613	188	216	70	120	19	0	0

- Molecule 219 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
219	UC	32	1019	315	363	117	192	32	0	0

- Molecule 220 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
220	UD	23	725	223	260	80	139	23	0	0

- Molecule 221 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
221	V2	27	857	265	306	98	161	27	0	0

- Molecule 222 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
222	V3	25	802	248	283	97	149	25	0	0

- Molecule 223 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
223	V5	41	1304	401	459	163	240	41	0	0

- Molecule 224 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
224	V7	18	570	176	202	70	104	18	0	0

- Molecule 225 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
225	V8	22	705	218	245	97	123	22	0	0

- Molecule 226 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
226	V9	34	1084	335	380	142	193	34	0	0

- Molecule 227 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
227	VA	29	920	282	325	111	173	29	0	0

- Molecule 228 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
228	VC	40	1272	392	448	160	232	40	0	0

- Molecule 229 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
229	VD	21	669	207	232	96	113	21	0	0

- Molecule 230 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
230	W3	49	1561	482	554	184	292	49	0	0

- Molecule 231 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
231	W5	31	993	306	353	111	192	31	0	0

- Molecule 232 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
232	W7	23	730	225	263	75	144	23	0	0

- Molecule 233 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
233	W8	21	673	208	236	86	122	21	0	0

- Molecule 234 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
234	W9	19	608	187	212	80	110	19	0	0

- Molecule 235 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
235	WD	18	572	177	202	72	103	18	0	0

- Molecule 236 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
236	X5	21	667	206	238	76	126	21	0	0

- Molecule 237 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			P
237	X7	23	724	224	259	85	133	23	0	0

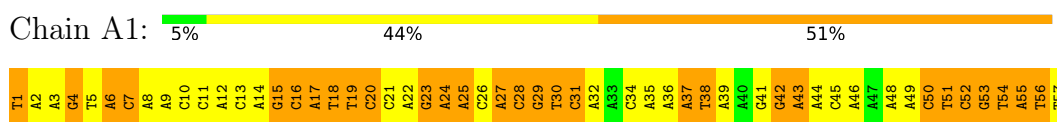
- Molecule 238 is a DNA chain called DNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
238	X9	59	1871	576	661	231	344	59	0	0

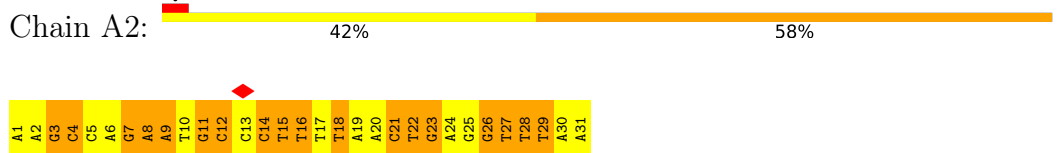
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

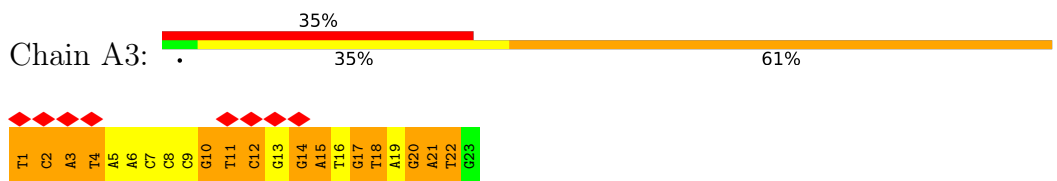
- Molecule 1: DNA



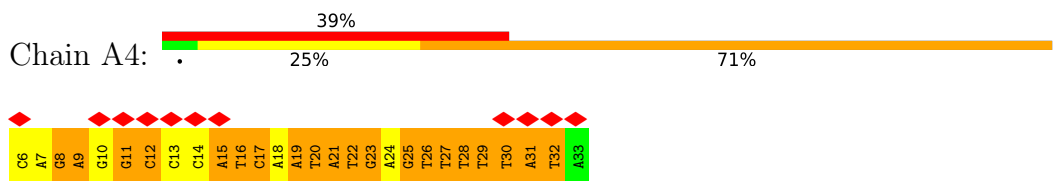
- Molecule 2: DNA



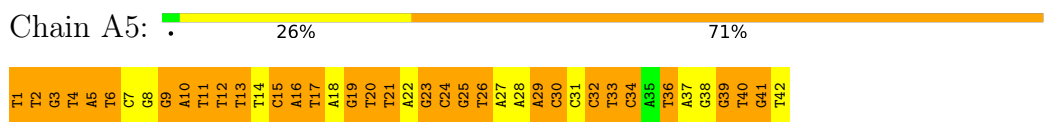
- Molecule 3: DNA



- Molecule 4: DNA



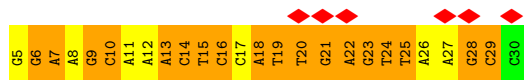
- Molecule 5: DNA



- Molecule 6: DNA







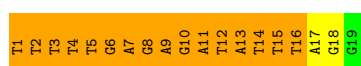
• Molecule 7: DNA



• Molecule 8: DNA



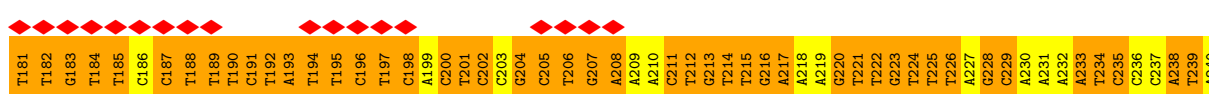
• Molecule 9: DNA



• Molecule 10: DNA



• Molecule 11: DNA scaffold



A1081	C1081	A1021	G901	C841	G781	C721	G661	G601	G541	A421	G361	A301
T1082	T962	A1022	C902	T842	C782	A722	C662	T602	T542	G422	T362	T302
G1083	G963	A1023	T903	C843	T783	A723	A663	T603	G483	G423	T363	G303
A1084	G964	A1024	C904	C844	T784	A724	T664	T604	A484	G424	T364	A304
T1085	T965	T1025	T905	T845	T785	A725	T665	G605	T485	T425	G365	G305
T1086	T966	G1026	A907	T847	T787	A726	T667	T607	C487	G427	G366	G307
A1087	C967	A1027	G908	C848	T788	G726	T668	G608	A488	C428	C367	C308
C1088	G968	C1028	A909	C849	T789	G727	T669	T609	A489	G429	C367	T309
G1089	G970	G1029	G910	A850	A790	C728	C670	C670	C490	G430	T368	G310
T1091	T911	T1091	T911	T851	G791	A729	T671	T611	T491	T431	A369	T311
G1092	G972	A1030	G912	G852	G792	T730	C672	C612	A492	T432	C370	C312
C1093	A973	T1031	G913	C853	A793	G731	A673	A613	T493	C433	A371	T313
T1094	T974	G1032	C914	T854	T794	T732	A674	G614	T494	T434	G372	G314
G1095	T975	G915	G915	G855	T795	A733	G675	G615	C495	G435	G373	T315
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A1097	T977	T917	T917	C857	A797	G735	A677	T617	C497	G437	G375	G317
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A1098	T980	C919	C919	G859	T798	C737	C679	A619	G499	G439	C377	A319
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G1100	A982	G921	G921	G861	G801	C739	A681	A621	T501	G441	C379	G321
C1101	T983	A922	A922	C862	T800	C739	A682	G622	A502	G442	C381	C322
T1102	G984	G923	G923	T864	T802	T741	C684	T624	T503	G443	C382	T323
A1103	A985	G924	G924	C865	T803	A742	C685	T625	C505	G444	T383	A324
G1104	A986	G925	G925	T866	T804	A743	C686	G626	T506	T446	G384	C325
T1105	A987	G926	G926	G868	G805	T744	T688	C627	T507	T447	G385	A326
T1106	A988	T926	T926	T869	T806	G745	A690	G628	C508	G448	G386	G328
T1107	G989	G927	G927	G870	T806	G746	T689	A629	T509	T449	C387	C329
T1108	A990	G928	G928	G871	G807	A747	A691	A630	A510	G450	T388	G330
A1109	T991	C929	C929	T872	A808	A748	A692	A631	T511	A451	T389	T331
T1110	G992	G929	G929	T873	T809	A749	A693	T632	C512	G452	C391	T332
T1111	C1048	C1048	G930	G874	T810	G750	A694	A633	A513	G453	G392	G333
T1112	T1049	T1049	G931	T875	T812	T752	T695	G635	C515	T455	A393	A335
G1113	G1050	C934	G934	T876	T813	A753	T696	C636	T516	G456	T394	C335
T1114	A1051	A997	A997	C877	A814	A754	A697	A637	C517	G457	C395	A336
G1115	C1052	G999	G999	T878	A815	A755	T698	G638	T518	G458	C397	T337
T1116	T1053	C1054	C1054	G879	T816	A756	T699	G639	C519	G459	T398	T338
T1117	T1055	T1055	G936	G880	G817	T756	A700	G640	T520	G460	G399	G340
A1118	A1056	A1057	A937	T881	C818	T757	C701	G641	T521	T461	A400	T341
T1120	A1057	A1058	G938	G882	T822	C758	A702	G642	G522	A462	A401	A342
T1121	A1058	G1059	G939	G883	C819	A759	A703	C643	A523	C463	A402	C343
T1122	G1060	G1060	G940	G884	A820	G760	G704	A644	C524	T464	A403	T344
C1123	A1061	A1061	A941	G885	A821	A761	T705	T645	G525	A465	T404	G345
G1124	A1062	A1062	G942	G886	G823	G762	C707	T646	G526	A466	T405	G346
T1125	A1063	A1063	G943	C887	G824	A763	A708	A647	C527	A467	A405	T347
G1126	A1064	A1064	G944	T888	T825	G764	C709	C649	A528	C468	G407	G348
C1127	C1065	C1065	G945	G889	G826	T765	T710	T650	T530	T470	G408	A349
T1128	T1066	T1066	G946	T890	T827	G766	C711	G651	T531	C471	G409	C350
T1129	T1067	T1067	T947	G891	G828	G767	C712	T652	A532	C472	G410	G351
T1130	G1068	G1068	T948	G892	A829	G768	T713	T653	T533	T473	G411	A352
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T1133	T1070	T1070	G950	G894	T832	T770	T715	T655	C535	A475	G414	A354
A1134	G1071	G1071	G951	T896	G833	T771	T716	T656	T537	G476	G415	C355
T1135	T1072	T1072	T953	G897	C834	T772	A717	T657	C538	T477	G416	C356
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T1139	G1074	G1074	G957	C900	C838	T776	T720	G660	T593	G480	G420	G359
A1140	C1076	C1076	G958	G901	A838	T777	T777		T594			T360
	G1077	G1077	T959		A839	T778	T778		T595			
	T1079	T1079	T960		C940	T779	T779		T596			
	A1080	A1080				G780	G780		A597			
									A598			
									A600			

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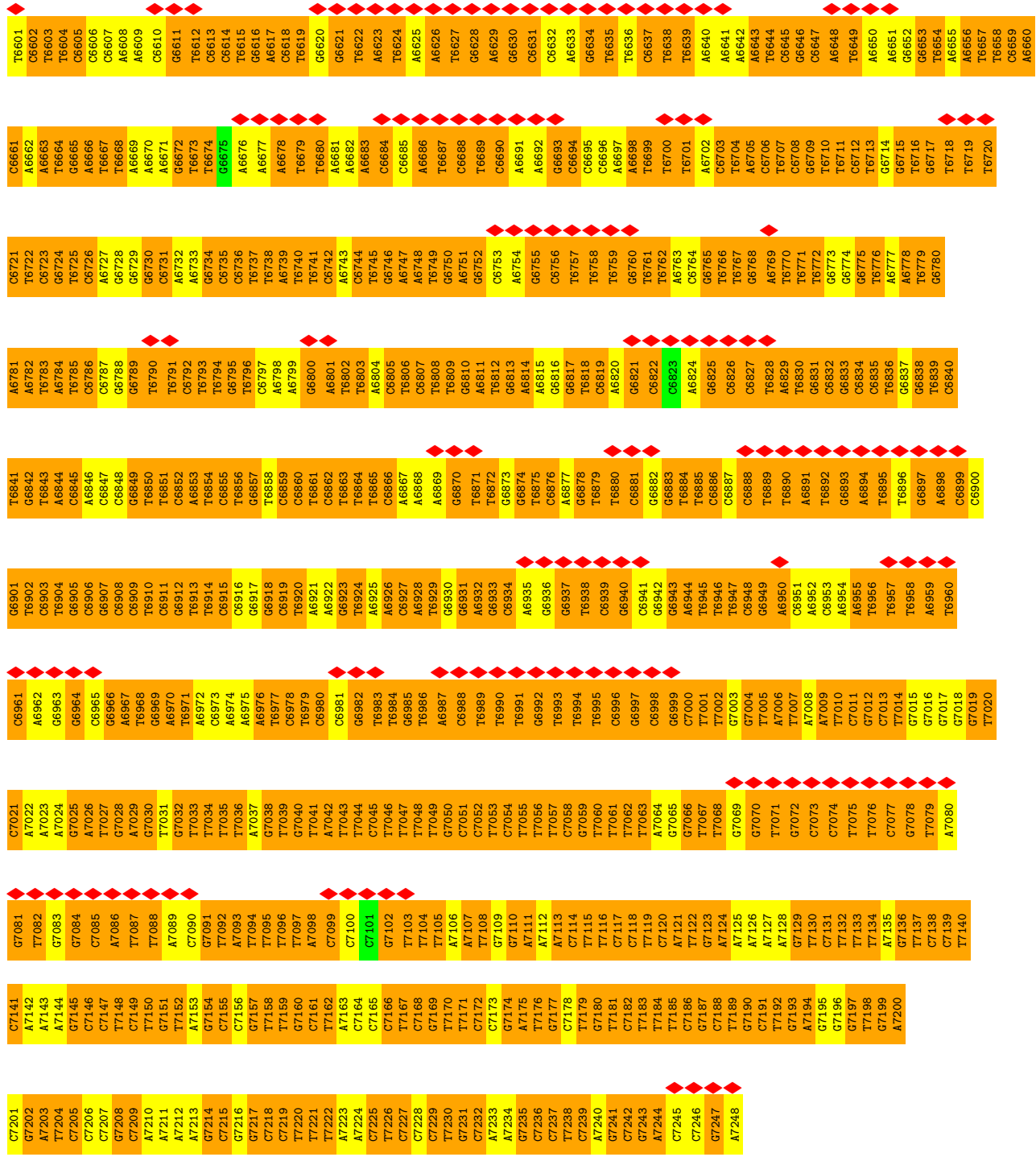
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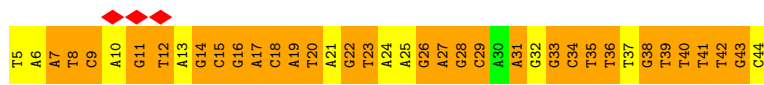


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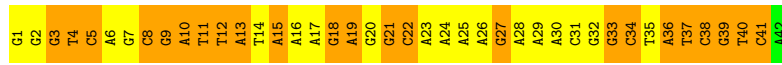


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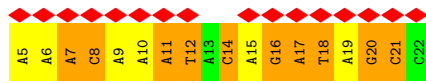
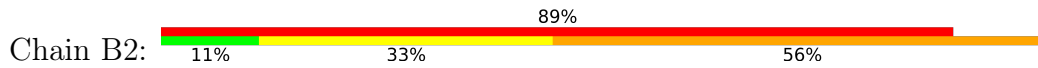
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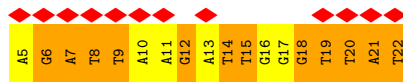
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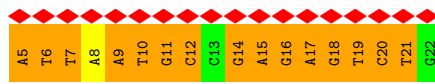
• Molecule 15: DNA



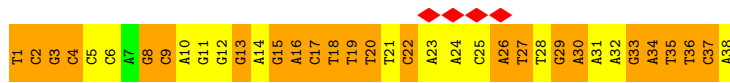
• Molecule 16: DNA



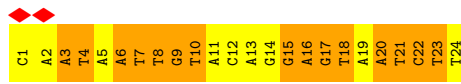
• Molecule 17: DNA



• Molecule 18: DNA



• Molecule 19: DNA



• Molecule 20: DNA

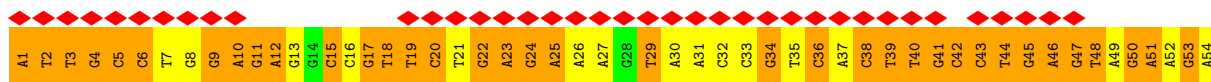




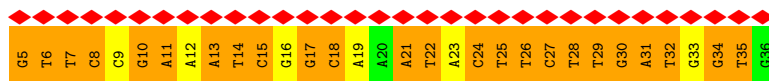
• Molecule 21: DNA



• Molecule 22: DNA



• Molecule 23: DNA



• Molecule 24: DNA



• Molecule 25: DNA

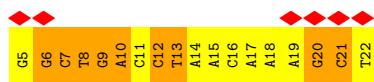


• Molecule 26: DNA



• Molecule 27: DNA

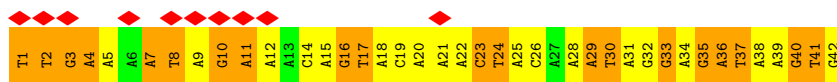




• Molecule 28: DNA



• Molecule 29: DNA



• Molecule 30: DNA



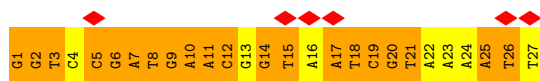
• Molecule 31: DNA



• Molecule 32: DNA



• Molecule 33: DNA

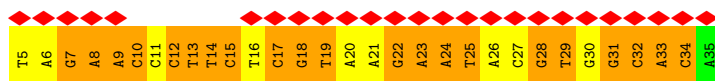
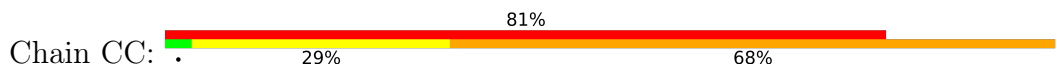


• Molecule 34: DNA





• Molecule 35: DNA



• Molecule 36: DNA



• Molecule 37: DNA



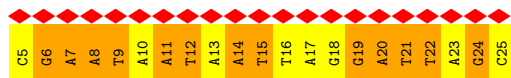
• Molecule 38: DNA



• Molecule 39: DNA



• Molecule 40: DNA

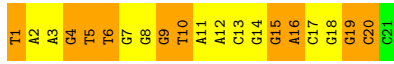
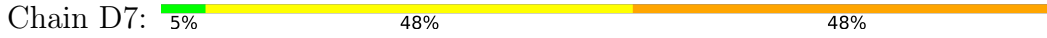


• Molecule 41: DNA

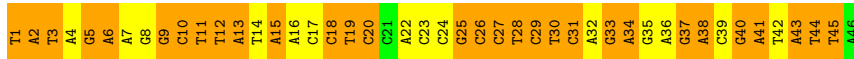




• Molecule 42: DNA



• Molecule 43: DNA



• Molecule 44: DNA



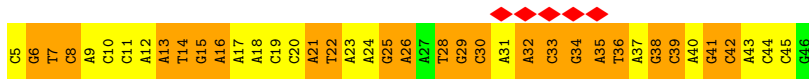
• Molecule 45: DNA



• Molecule 46: DNA



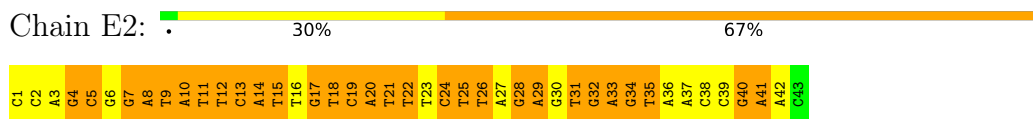
• Molecule 47: DNA



• Molecule 48: DNA



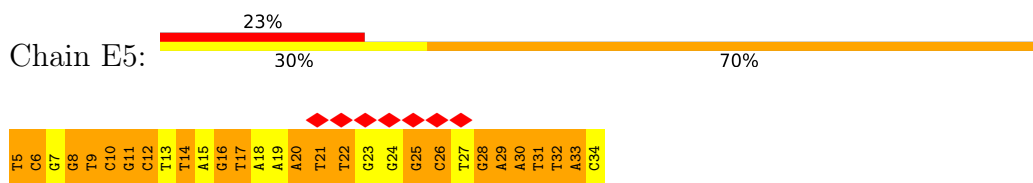
• Molecule 49: DNA



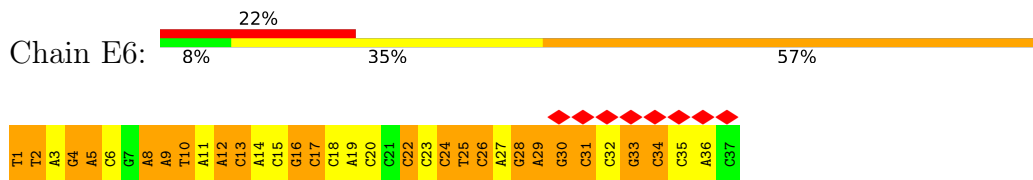
• Molecule 50: DNA



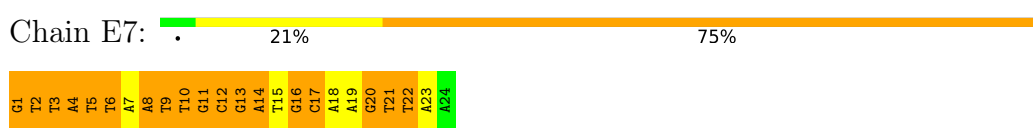
• Molecule 51: DNA



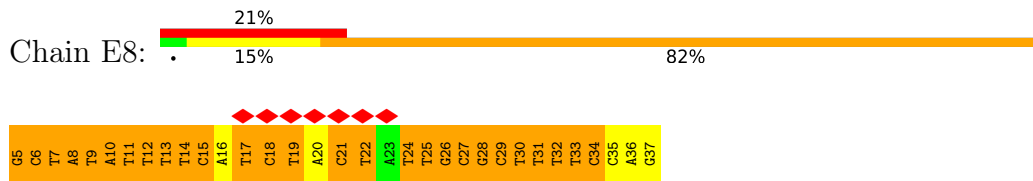
• Molecule 52: DNA



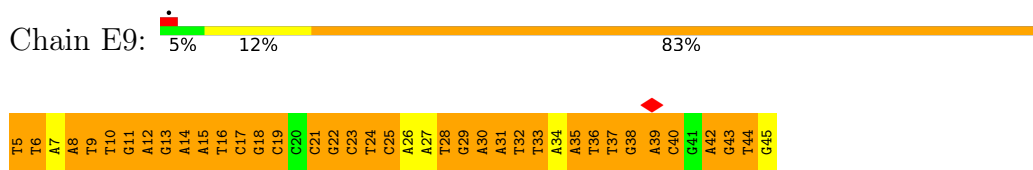
• Molecule 53: DNA



• Molecule 54: DNA

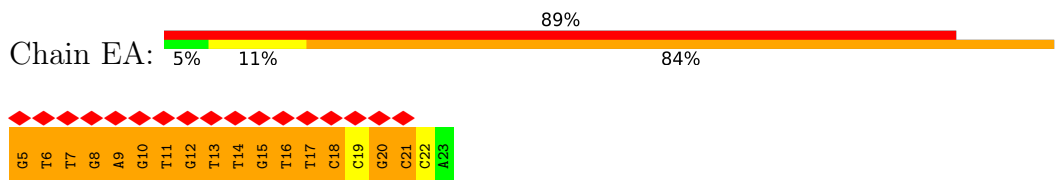


• Molecule 55: DNA

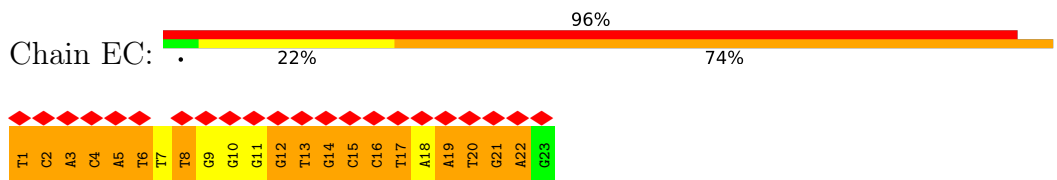


• Molecule 56: DNA

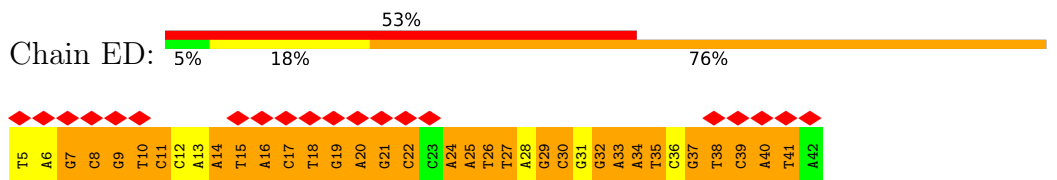




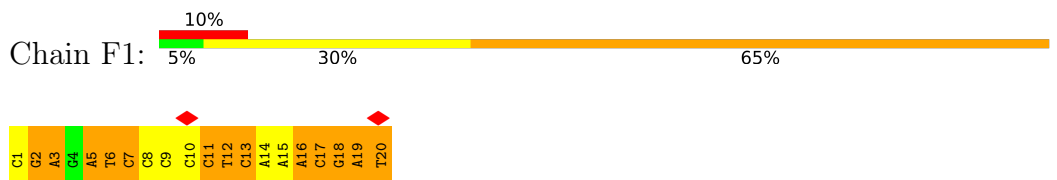
• Molecule 57: DNA



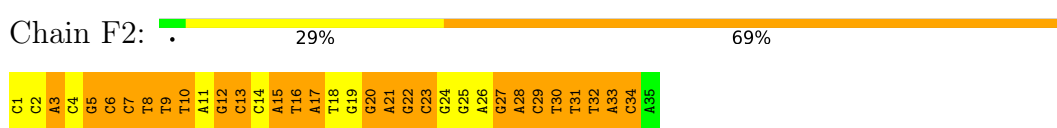
• Molecule 58: DNA



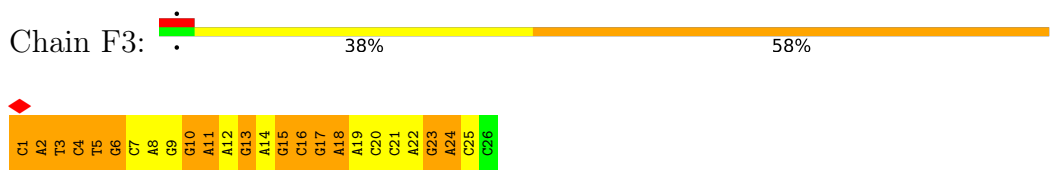
• Molecule 59: DNA



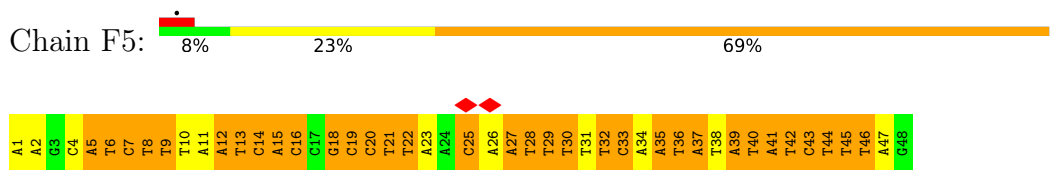
• Molecule 60: DNA



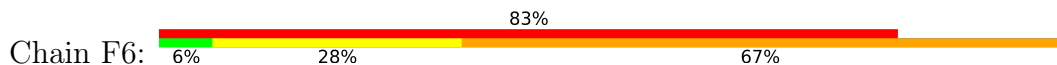
• Molecule 61: DNA

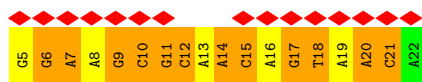


• Molecule 62: DNA



• Molecule 63: DNA

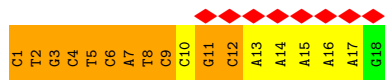




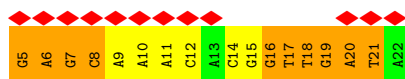
• Molecule 64: DNA



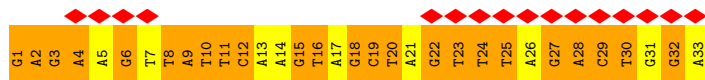
• Molecule 65: DNA



• Molecule 66: DNA



• Molecule 67: DNA



• Molecule 68: DNA



• Molecule 69: DNA

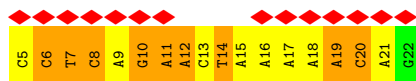
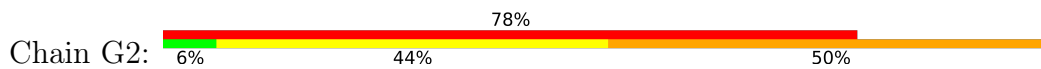


• Molecule 70: DNA





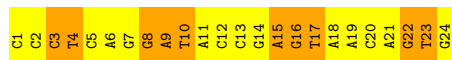
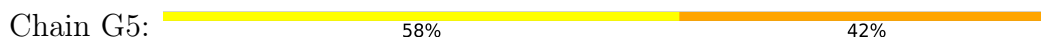
• Molecule 71: DNA



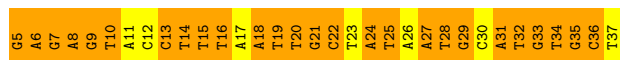
• Molecule 72: DNA



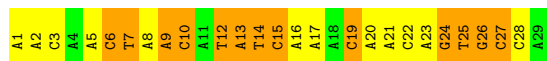
• Molecule 73: DNA



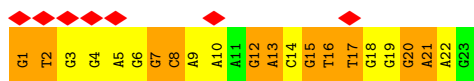
• Molecule 74: DNA



• Molecule 75: DNA



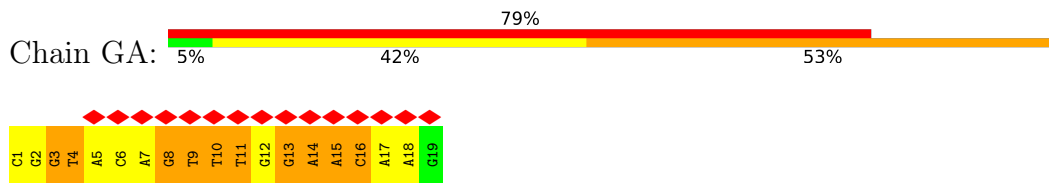
• Molecule 76: DNA



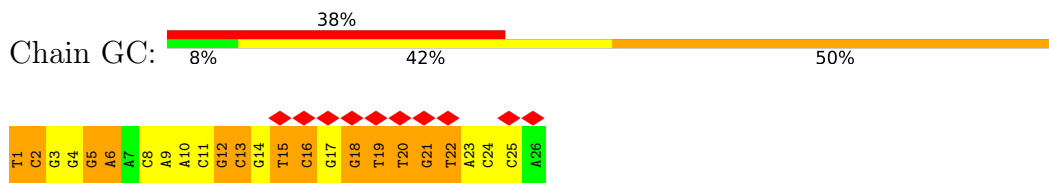
• Molecule 77: DNA



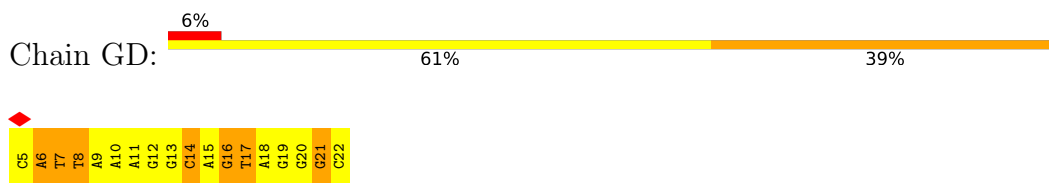
• Molecule 78: DNA



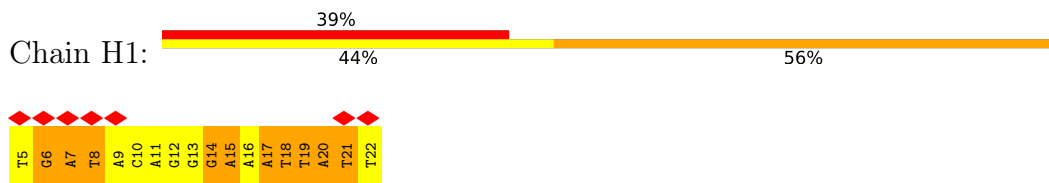
• Molecule 79: DNA



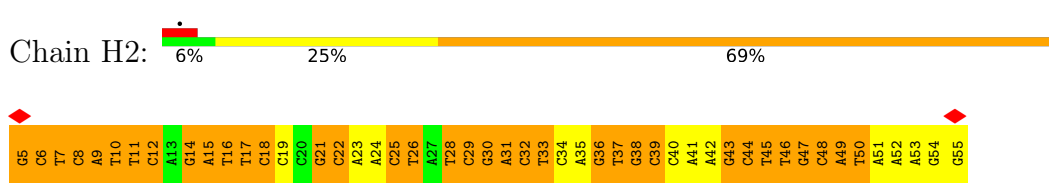
• Molecule 80: DNA



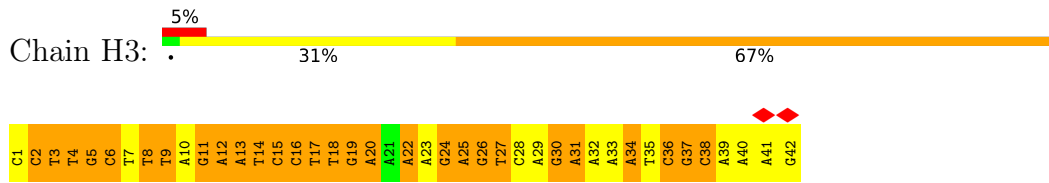
• Molecule 81: DNA



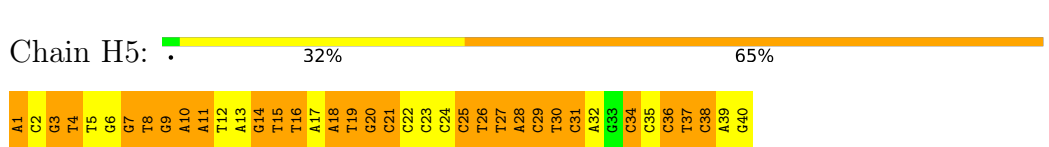
• Molecule 82: DNA



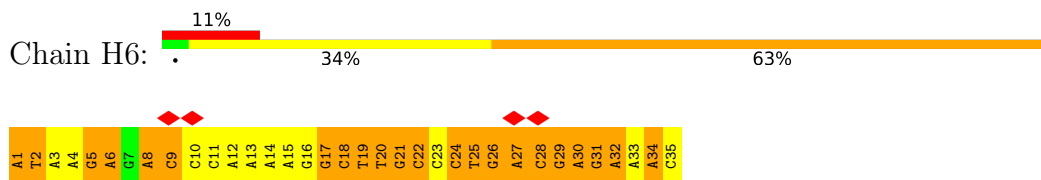
• Molecule 83: DNA



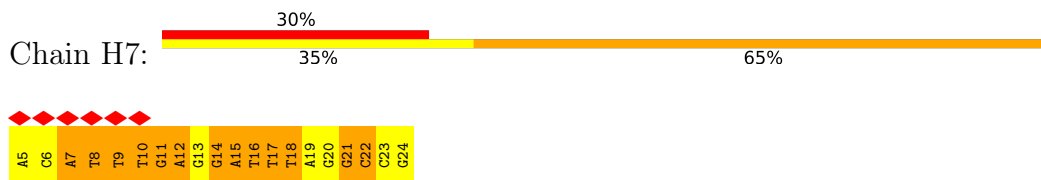
• Molecule 84: DNA



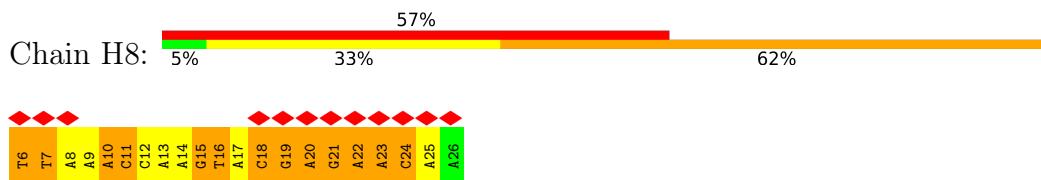
• Molecule 85: DNA



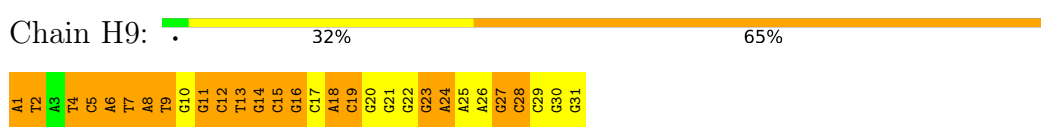
• Molecule 86: DNA



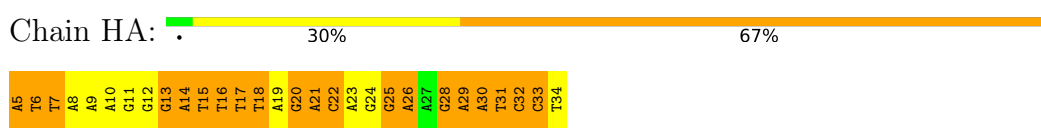
• Molecule 87: DNA



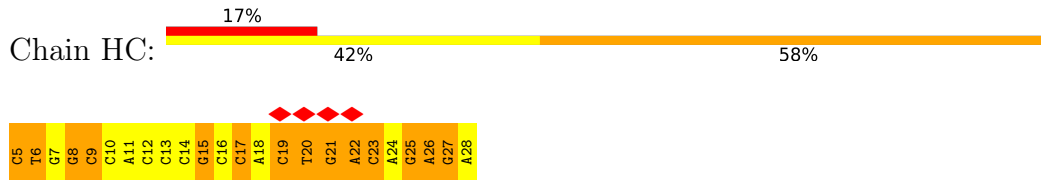
• Molecule 88: DNA



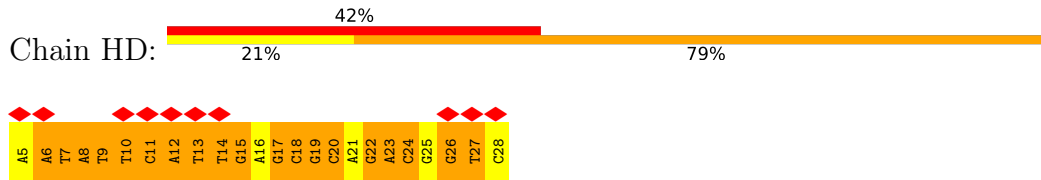
• Molecule 89: DNA



• Molecule 90: DNA

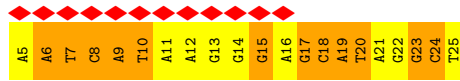


• Molecule 91: DNA



• Molecule 92: DNA

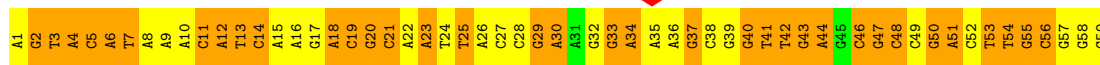




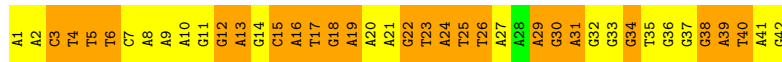
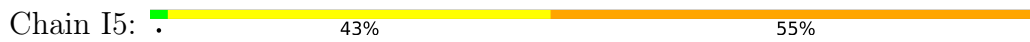
• Molecule 93: DNA



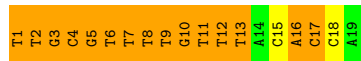
• Molecule 94: DNA



• Molecule 95: DNA



• Molecule 96: DNA



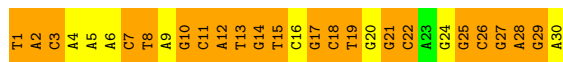
• Molecule 97: DNA



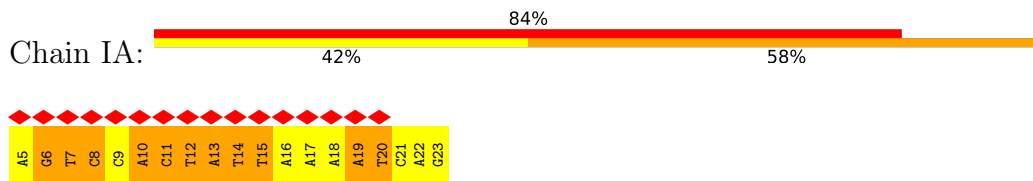
• Molecule 98: DNA



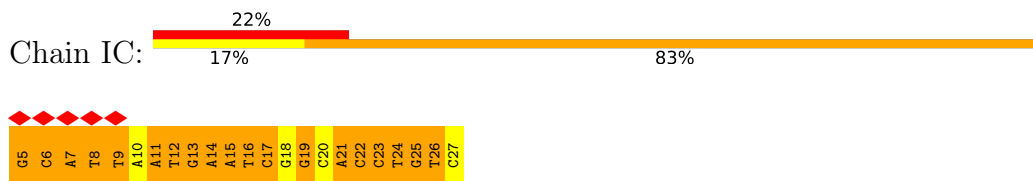
• Molecule 99: DNA



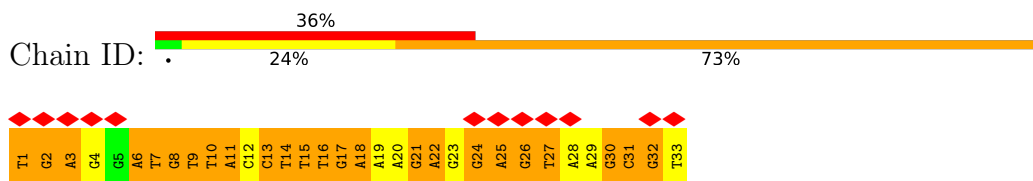
• Molecule 100: DNA



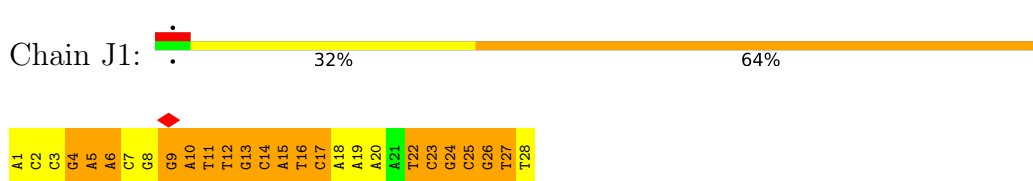
• Molecule 101: DNA



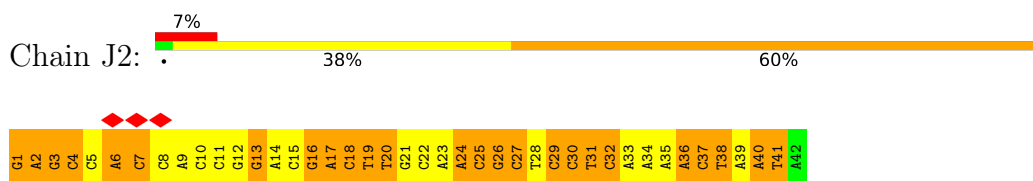
• Molecule 102: DNA



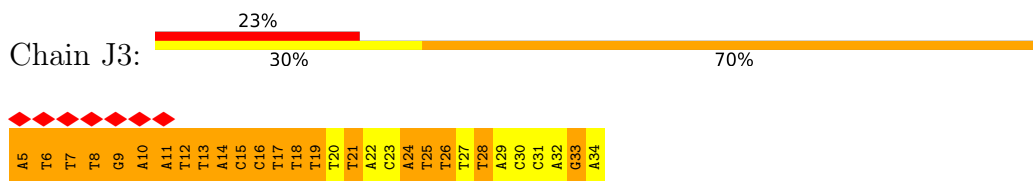
• Molecule 103: DNA



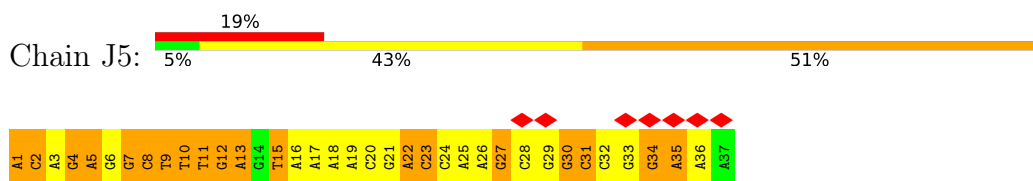
• Molecule 104: DNA



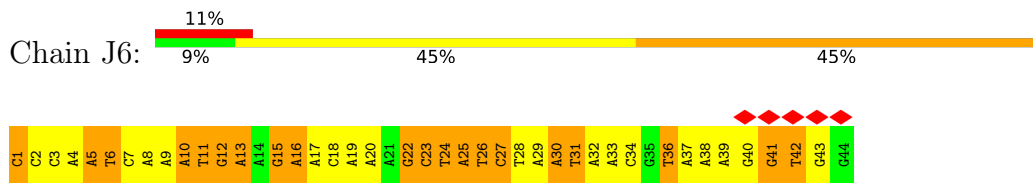
• Molecule 105: DNA



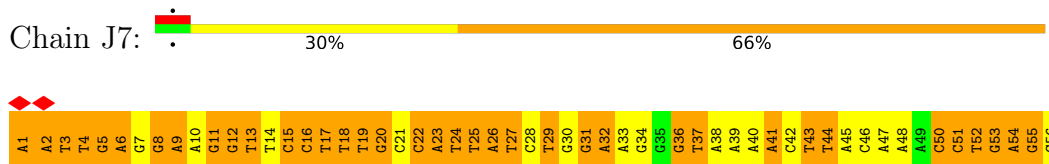
• Molecule 106: DNA



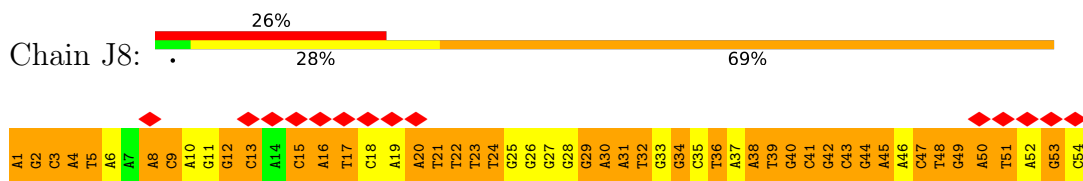
• Molecule 107: DNA



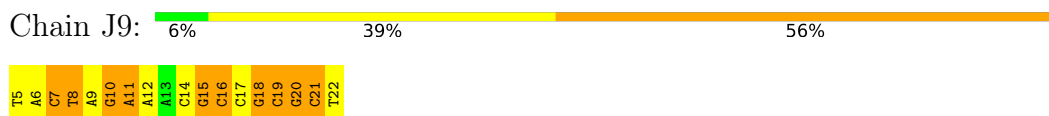
• Molecule 108: DNA



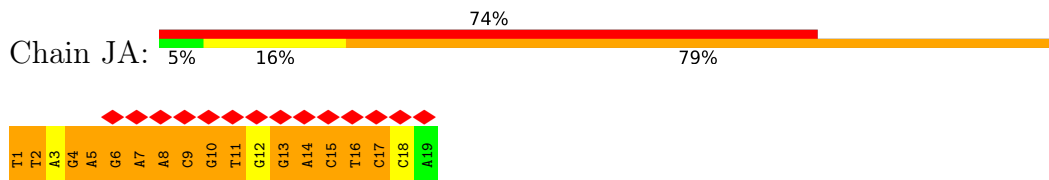
• Molecule 109: DNA



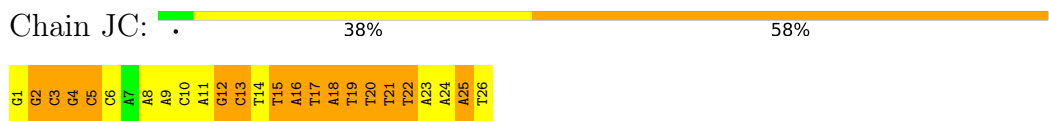
• Molecule 110: DNA



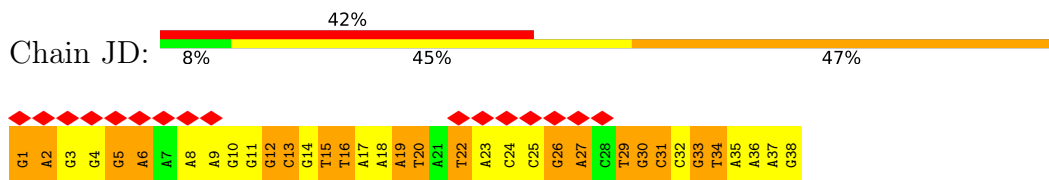
• Molecule 111: DNA



• Molecule 112: DNA



• Molecule 113: DNA

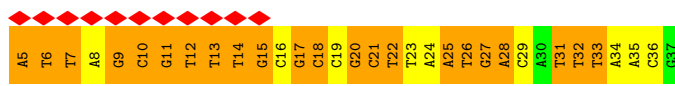


• Molecule 114: DNA

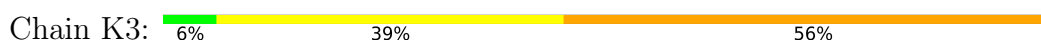




• Molecule 115: DNA



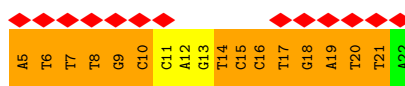
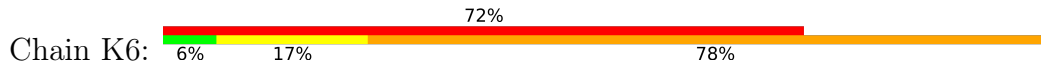
• Molecule 116: DNA



• Molecule 117: DNA



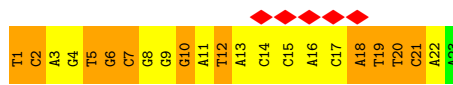
• Molecule 118: DNA



• Molecule 119: DNA

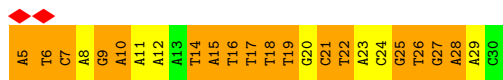


• Molecule 120: DNA

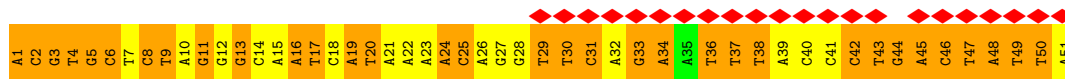


• Molecule 121: DNA

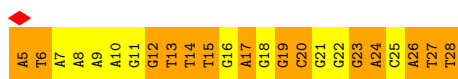




• Molecule 122: DNA



• Molecule 123: DNA



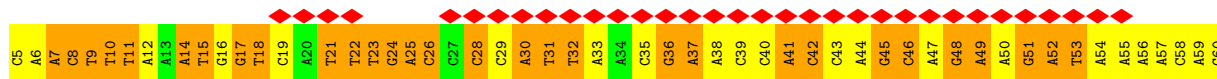
• Molecule 124: DNA



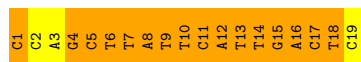
• Molecule 125: DNA



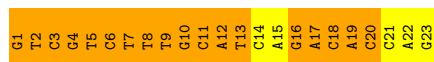
• Molecule 126: DNA



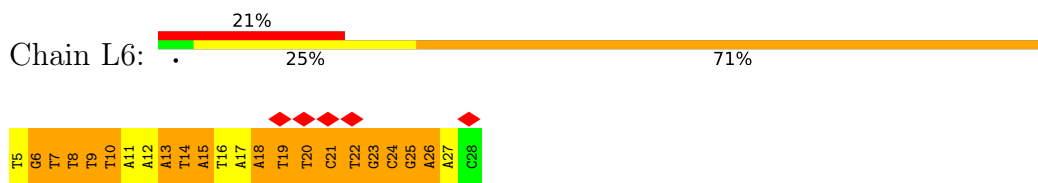
• Molecule 127: DNA



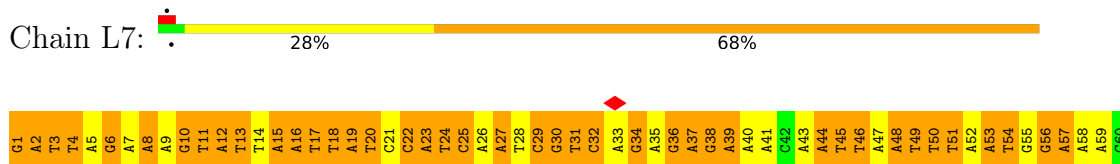
• Molecule 128: DNA



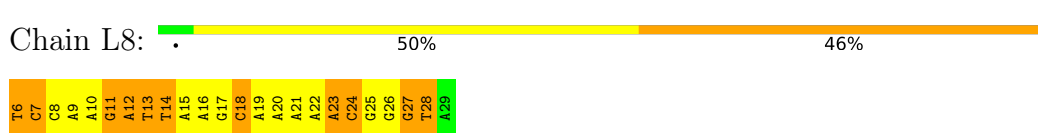
• Molecule 129: DNA



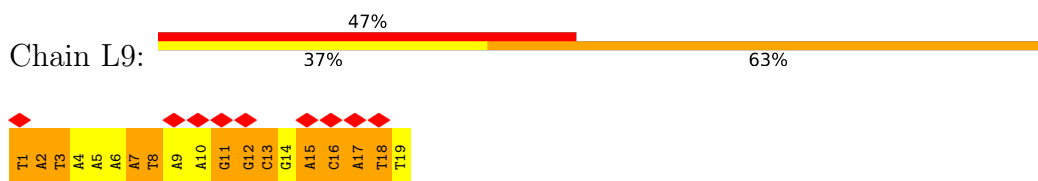
• Molecule 130: DNA



• Molecule 131: DNA



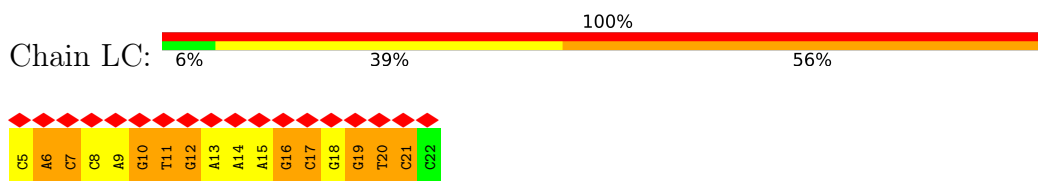
• Molecule 132: DNA



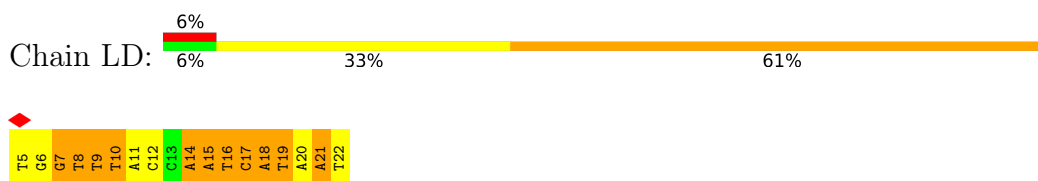
• Molecule 133: DNA



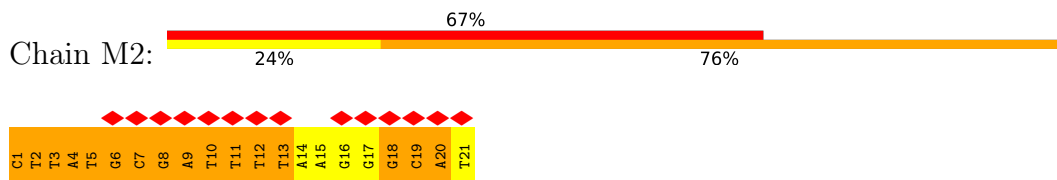
• Molecule 134: DNA



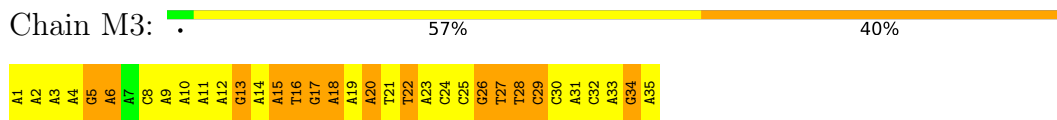
• Molecule 135: DNA



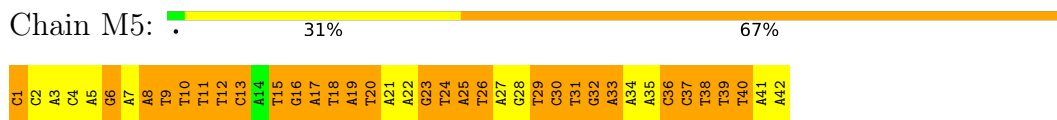
• Molecule 136: DNA



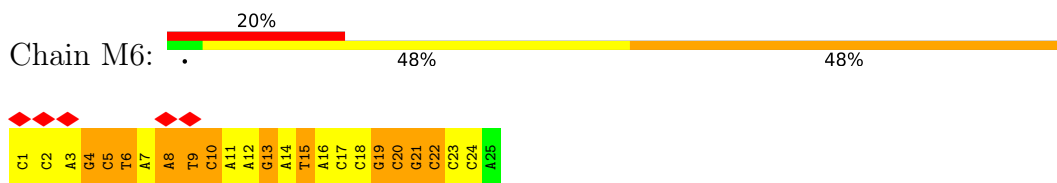
• Molecule 137: DNA



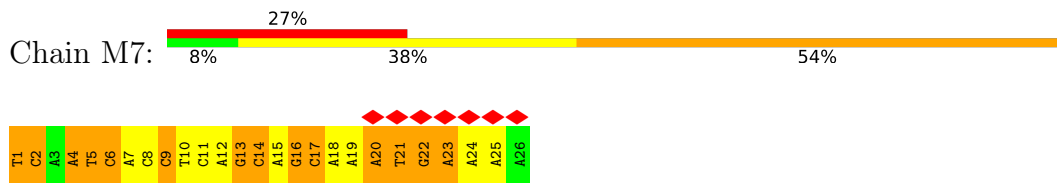
• Molecule 138: DNA



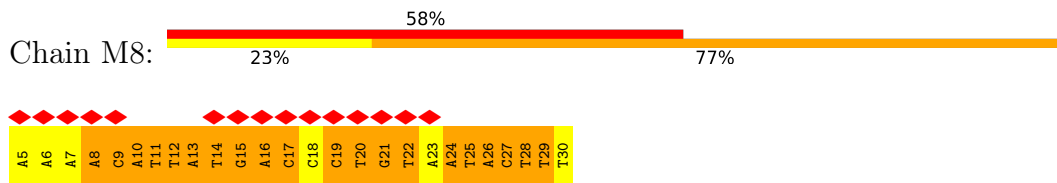
• Molecule 139: DNA



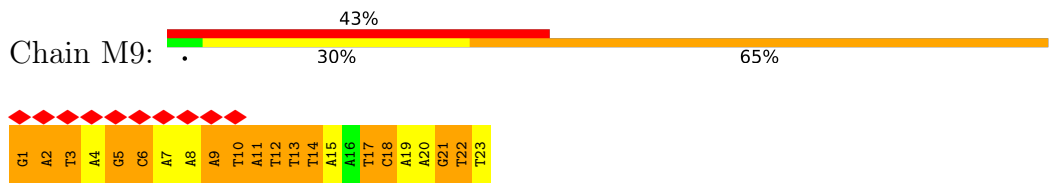
• Molecule 140: DNA



• Molecule 141: DNA

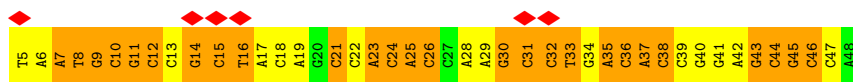


• Molecule 142: DNA

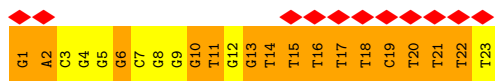


• Molecule 143: DNA

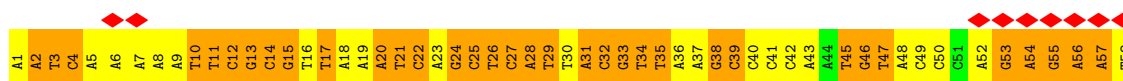




• Molecule 144: DNA



• Molecule 145: DNA



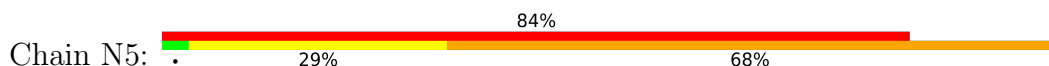
• Molecule 146: DNA



• Molecule 147: DNA



• Molecule 148: DNA

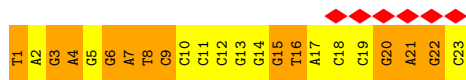


• Molecule 149: DNA

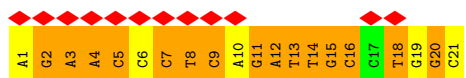


• Molecule 150: DNA





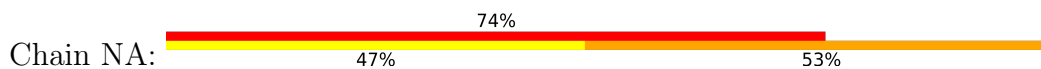
● Molecule 151: DNA



● Molecule 152: DNA



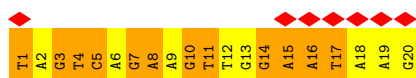
● Molecule 153: DNA



● Molecule 154: DNA



● Molecule 155: DNA

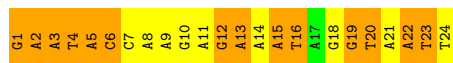


● Molecule 156: DNA

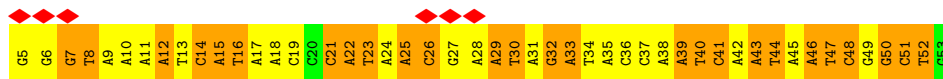


● Molecule 157: DNA

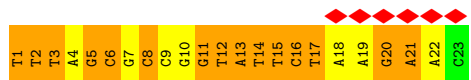




• Molecule 158: DNA



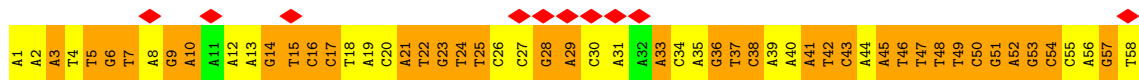
• Molecule 159: DNA



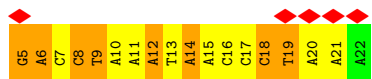
• Molecule 160: DNA



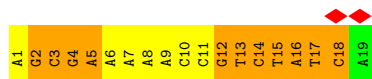
• Molecule 161: DNA



• Molecule 162: DNA



• Molecule 163: DNA

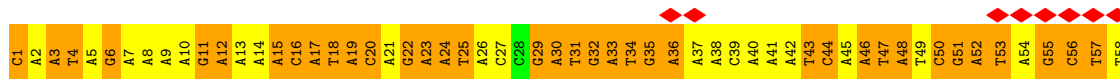


• Molecule 164: DNA

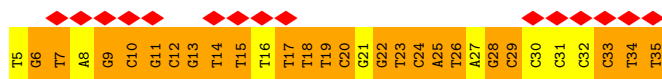




• Molecule 165: DNA



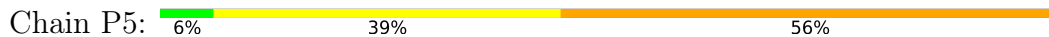
• Molecule 166: DNA



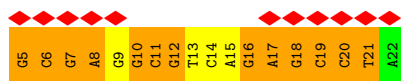
• Molecule 167: DNA



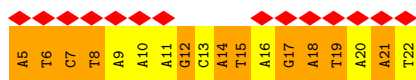
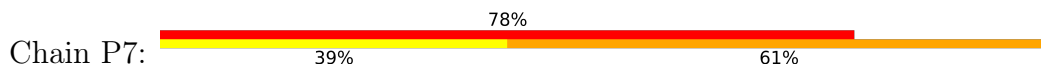
• Molecule 168: DNA



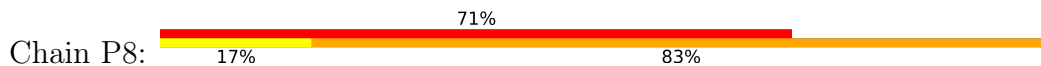
• Molecule 169: DNA



• Molecule 170: DNA



• Molecule 171: DNA



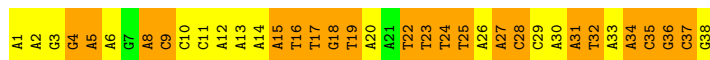
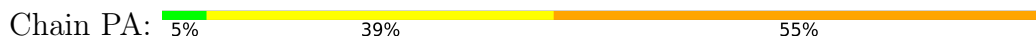




- Molecule 172: DNA



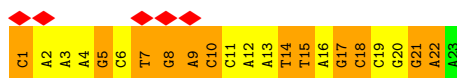
- Molecule 173: DNA



- Molecule 174: DNA



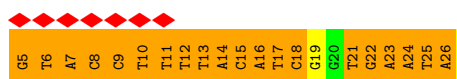
- Molecule 175: DNA



- Molecule 176: DNA



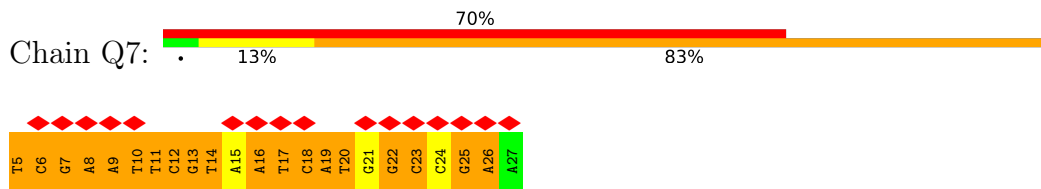
- Molecule 177: DNA



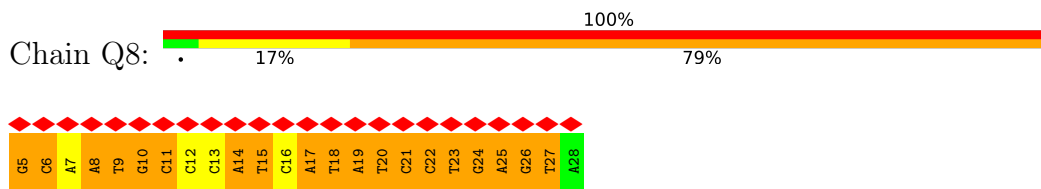
- Molecule 178: DNA



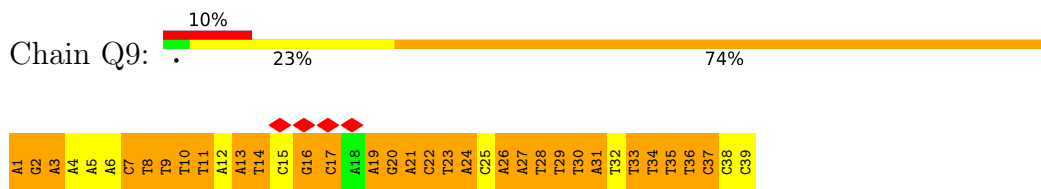
• Molecule 179: DNA



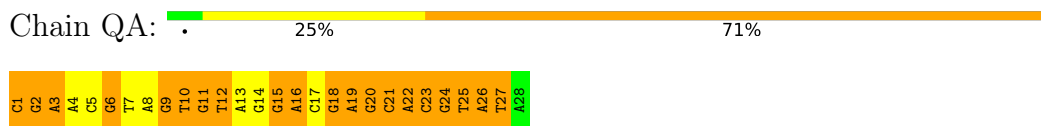
• Molecule 180: DNA



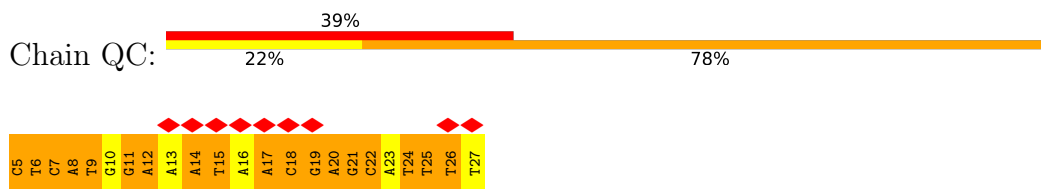
• Molecule 181: DNA



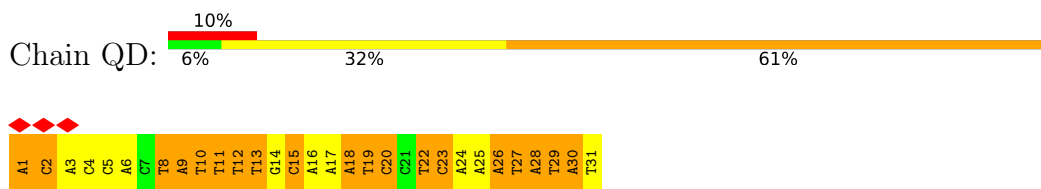
• Molecule 182: DNA



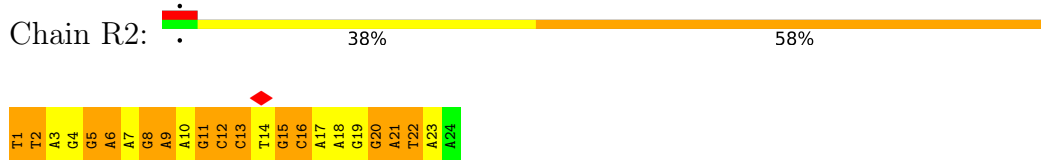
• Molecule 183: DNA



• Molecule 184: DNA



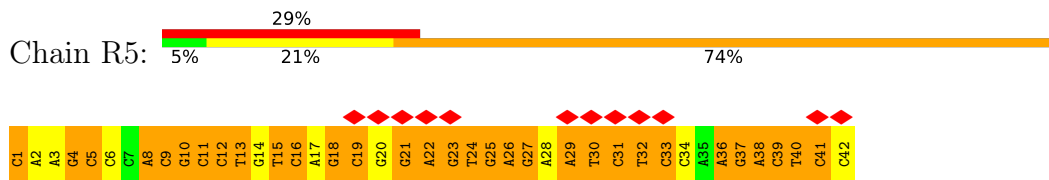
• Molecule 185: DNA



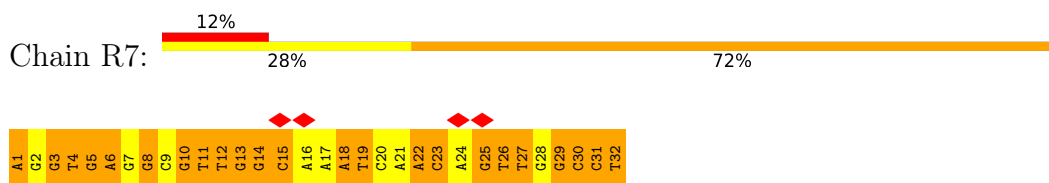
• Molecule 186: DNA



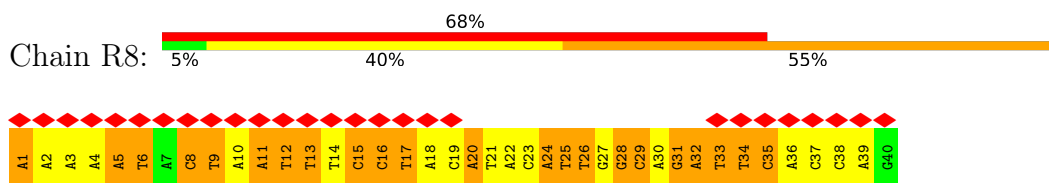
• Molecule 187: DNA



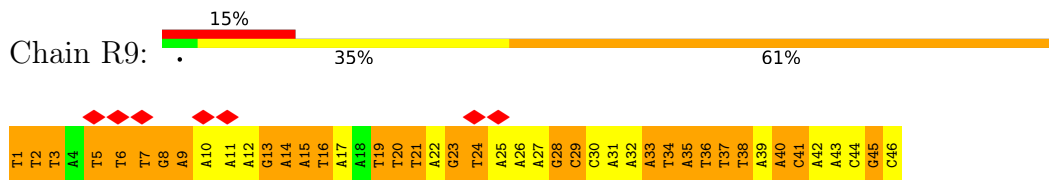
• Molecule 188: DNA



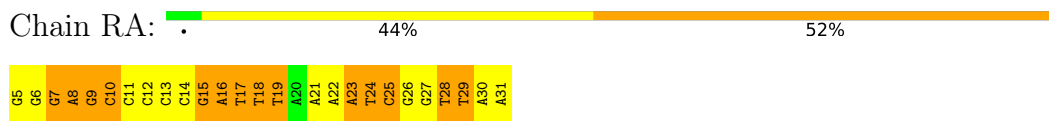
• Molecule 189: DNA



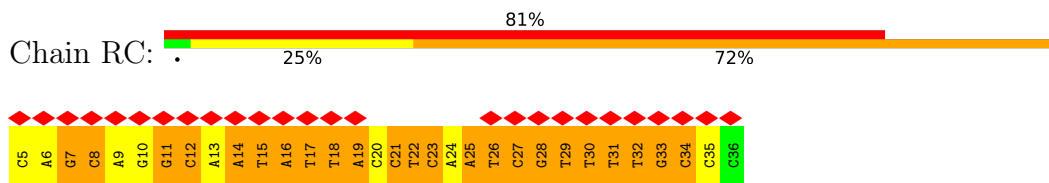
• Molecule 190: DNA



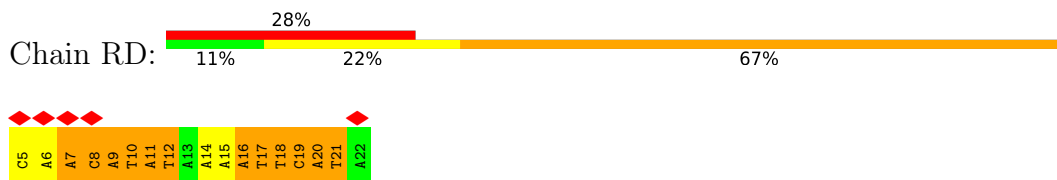
• Molecule 191: DNA



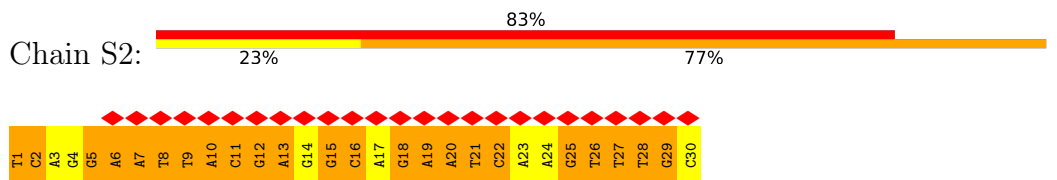
• Molecule 192: DNA



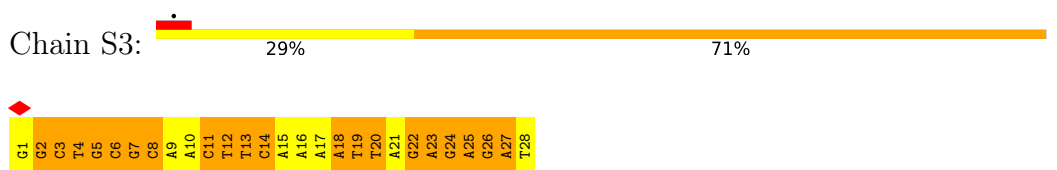
• Molecule 193: DNA



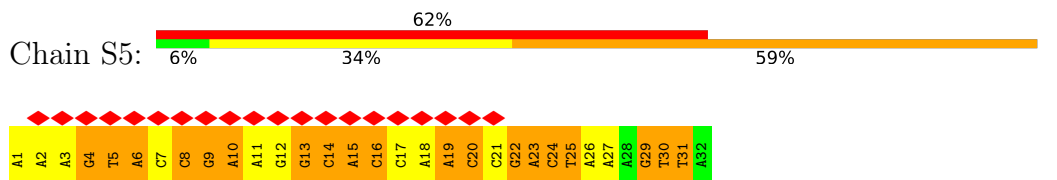
• Molecule 194: DNA



• Molecule 195: DNA



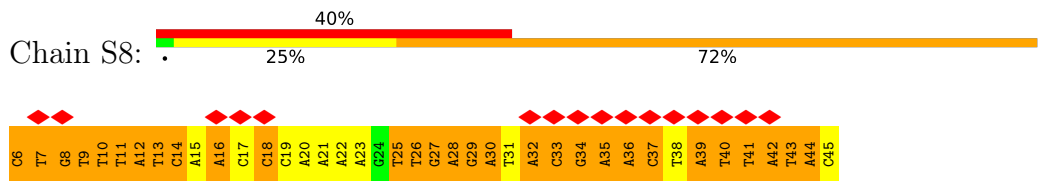
• Molecule 196: DNA



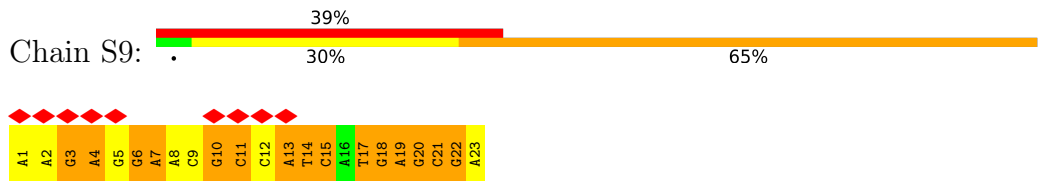
• Molecule 197: DNA



• Molecule 198: DNA



• Molecule 199: DNA



• Molecule 200: DNA

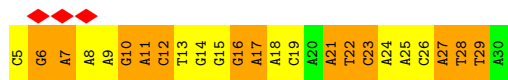




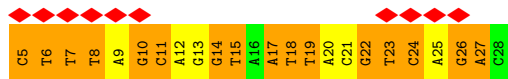
• Molecule 201: DNA



• Molecule 202: DNA



• Molecule 203: DNA



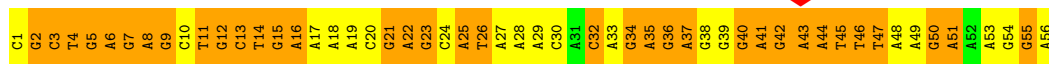
• Molecule 204: DNA



• Molecule 205: DNA



• Molecule 206: DNA



• Molecule 207: DNA

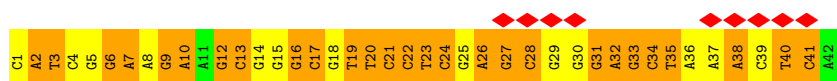




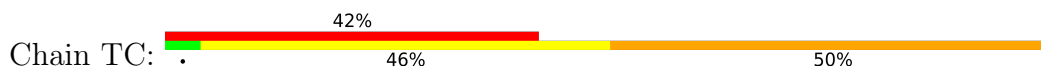
• Molecule 208: DNA



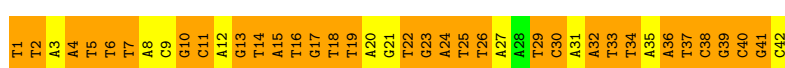
• Molecule 209: DNA



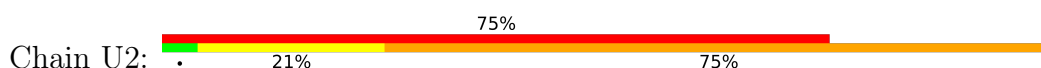
• Molecule 210: DNA



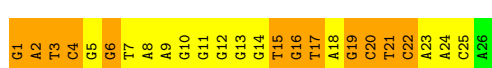
• Molecule 211: DNA



• Molecule 212: DNA



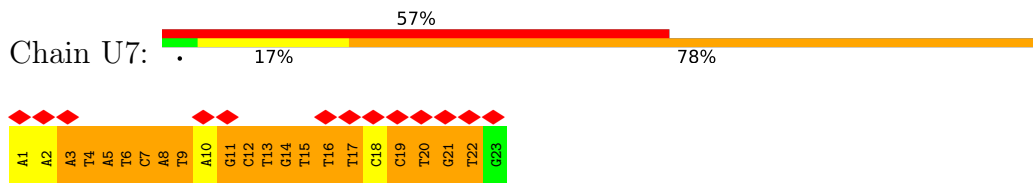
• Molecule 213: DNA



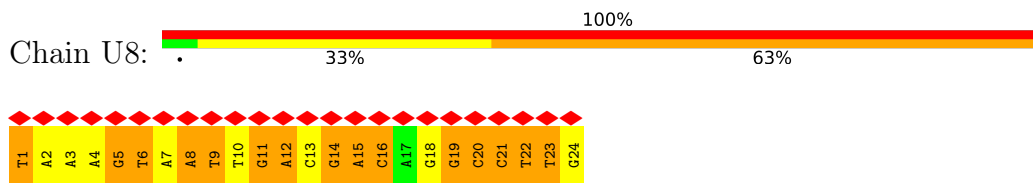
• Molecule 214: DNA



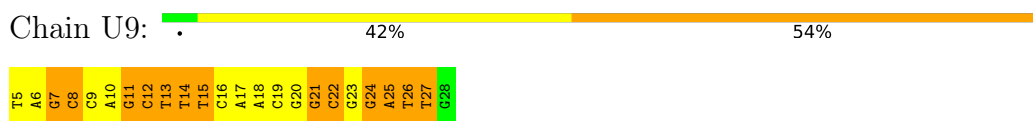
• Molecule 215: DNA



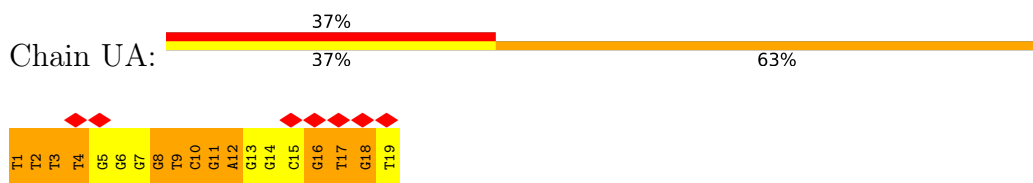
• Molecule 216: DNA



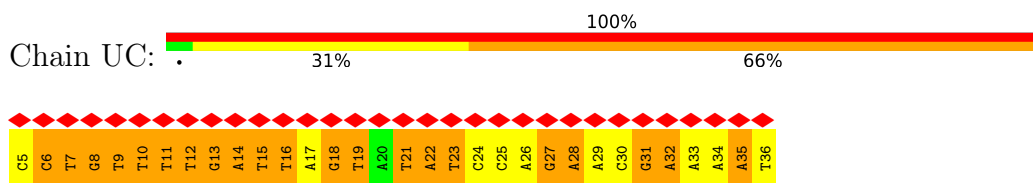
• Molecule 217: DNA



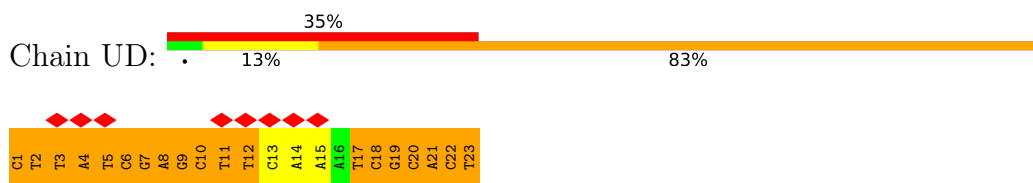
• Molecule 218: DNA



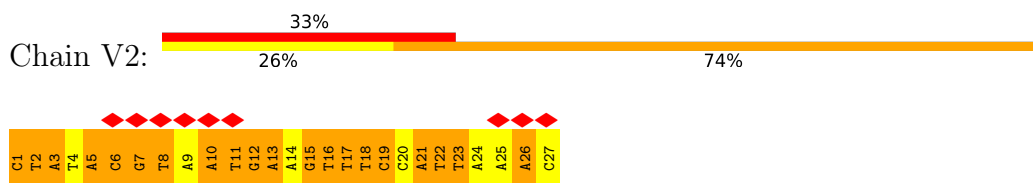
• Molecule 219: DNA



• Molecule 220: DNA

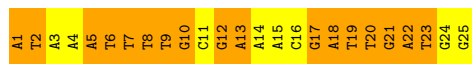


• Molecule 221: DNA



• Molecule 222: DNA

Chain V3:  32% 68%

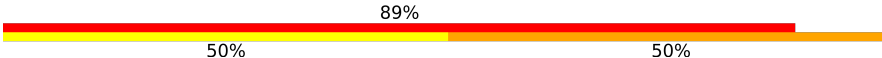


• Molecule 223: DNA

Chain V5:  10% 51% 46%



• Molecule 224: DNA

Chain V7:  50% 89% 50%



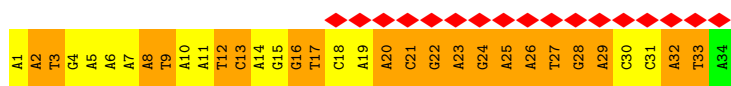
• Molecule 225: DNA

Chain V8:  5% 27% 68%



• Molecule 226: DNA

Chain V9:  50% 38% 59%

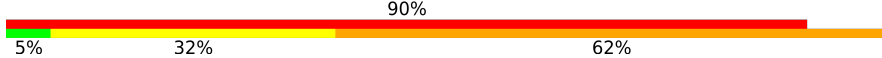


• Molecule 227: DNA

Chain VA:  24% 76%




• Molecule 228: DNA

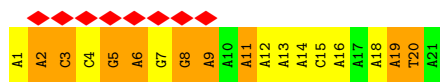
Chain VC:  5% 32% 90% 62%



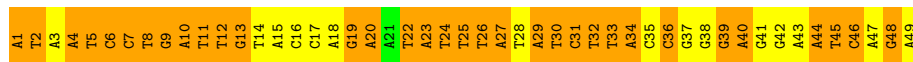
• Molecule 229: DNA

Chain VD:  14% 38% 43% 43%

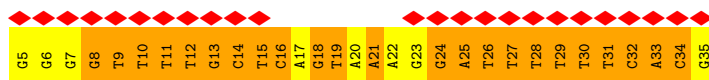
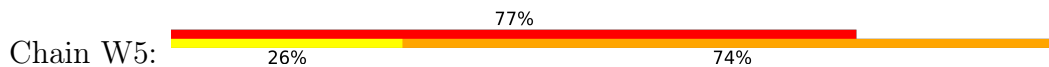




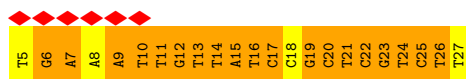
• Molecule 230: DNA



• Molecule 231: DNA



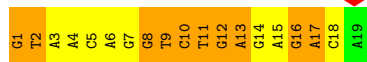
• Molecule 232: DNA



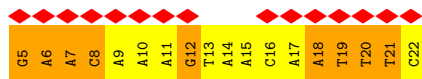
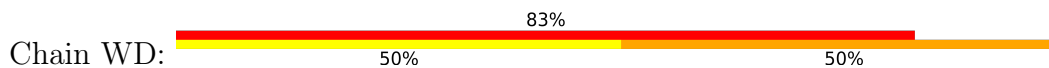
• Molecule 233: DNA



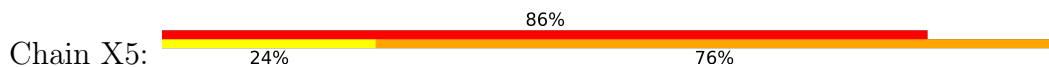
• Molecule 234: DNA



• Molecule 235: DNA

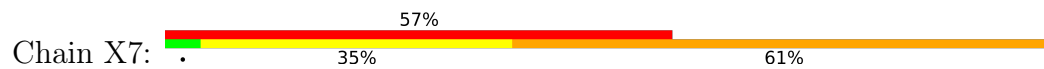


• Molecule 236: DNA

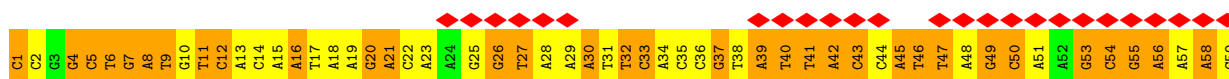
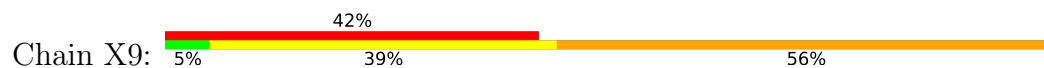




• Molecule 237: DNA



• Molecule 238: DNA



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	694	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	3	Depositor
Minimum defocus (nm)	3000	Depositor
Maximum defocus (nm)	5500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	5.388	Depositor
Minimum map value	-5.817	Depositor
Average map value	-0.789	Depositor
Map value standard deviation	0.614	Depositor
Recommended contour level	0.219	Depositor
Map size ( $\text{\AA}$ )	783.36, 783.36, 783.36	wwPDB
Map dimensions	48, 48, 48	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	16.32, 16.32, 16.32	Depositor

## 5 Model quality i

### 5.1 Standard geometry i

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A1	2.37	49/1305 (3.8%)	2.27	111/1991 (5.6%)
2	A2	2.34	27/710 (3.8%)	2.38	60/1086 (5.5%)
3	A3	2.44	21/529 (4.0%)	2.39	50/812 (6.2%)
4	A4	2.42	26/642 (4.0%)	2.39	56/986 (5.7%)
5	A5	2.37	37/959 (3.9%)	2.40	83/1469 (5.7%)
6	A6	2.45	25/601 (4.2%)	2.43	58/925 (6.3%)
7	A7	2.37	33/843 (3.9%)	2.40	74/1291 (5.7%)
8	A8	2.39	22/555 (4.0%)	2.38	48/853 (5.6%)
9	A9	2.41	18/442 (4.1%)	2.42	39/682 (5.7%)
10	AA	2.43	20/534 (3.7%)	2.27	43/817 (5.3%)
11	AB	2.49	7058/165871 (4.3%)	2.47	15883/255582 (6.2%)
12	AC	2.44	16/413 (3.9%)	2.41	37/633 (5.8%)
13	AD	2.45	37/925 (4.0%)	2.46	84/1422 (5.9%)
14	B1	2.40	37/980 (3.8%)	2.31	83/1502 (5.5%)
15	B2	2.40	16/416 (3.8%)	2.27	34/636 (5.3%)
16	B3	2.34	16/421 (3.8%)	2.34	35/647 (5.4%)
17	B4	2.40	16/416 (3.8%)	2.40	36/638 (5.6%)
18	B5	2.36	33/870 (3.8%)	2.36	75/1330 (5.6%)
19	B6	2.35	21/552 (3.8%)	2.32	46/845 (5.4%)
20	B7	2.44	16/403 (4.0%)	2.40	37/616 (6.0%)
21	B8	2.41	25/614 (4.1%)	2.44	57/943 (6.0%)
22	B9	2.41	48/1249 (3.8%)	2.35	111/1915 (5.8%)
23	BA	2.45	30/736 (4.1%)	2.42	66/1132 (5.8%)
24	BC	2.47	35/865 (4.0%)	2.38	78/1331 (5.9%)
25	BD	2.39	17/445 (3.8%)	2.31	37/682 (5.4%)
26	C1	2.36	24/608 (3.9%)	2.39	53/929 (5.7%)
27	C2	2.41	16/413 (3.9%)	2.38	38/632 (6.0%)
28	C3	2.39	19/498 (3.8%)	2.29	44/766 (5.7%)
29	C5	2.36	37/983 (3.8%)	2.26	81/1506 (5.4%)
30	C6	2.39	39/1041 (3.7%)	2.32	90/1593 (5.6%)
31	C7	2.37	30/756 (4.0%)	2.43	70/1161 (6.0%)
32	C8	2.36	47/1246 (3.8%)	2.40	109/1907 (5.7%)
33	C9	2.41	25/627 (4.0%)	2.40	56/964 (5.8%)
34	CA	2.42	18/440 (4.1%)	2.41	40/677 (5.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
35	CC	2.47	29/710 (4.1%)	2.39	67/1090 (6.1%)
36	CD	2.40	23/595 (3.9%)	2.29	50/911 (5.5%)
37	D1	2.40	37/941 (3.9%)	2.36	85/1435 (5.9%)
38	D2	2.52	17/415 (4.1%)	2.48	41/637 (6.4%)
39	D3	2.39	30/784 (3.8%)	2.37	68/1201 (5.7%)
40	D5	2.41	19/488 (3.9%)	2.36	39/749 (5.2%)
41	D6	2.40	40/1055 (3.8%)	2.34	92/1613 (5.7%)
42	D7	2.42	19/490 (3.9%)	2.38	44/753 (5.8%)
43	D8	2.40	40/1048 (3.8%)	2.34	91/1601 (5.7%)
44	D9	2.47	28/697 (4.0%)	2.32	62/1071 (5.8%)
45	DA	2.51	22/533 (4.1%)	2.39	50/820 (6.1%)
46	DC	2.43	16/412 (3.9%)	2.48	38/631 (6.0%)
47	DD	2.52	40/968 (4.1%)	2.38	91/1487 (6.1%)
48	E1	2.46	30/753 (4.0%)	2.32	71/1153 (6.2%)
49	E2	2.41	38/983 (3.9%)	2.36	82/1505 (5.4%)
50	E3	2.39	17/440 (3.9%)	2.33	34/674 (5.0%)
51	E5	2.40	27/690 (3.9%)	2.44	62/1059 (5.9%)
52	E6	2.47	33/834 (4.0%)	2.36	76/1273 (6.0%)
53	E7	2.40	22/555 (4.0%)	2.46	46/853 (5.4%)
54	E8	2.40	29/738 (3.9%)	2.47	66/1128 (5.9%)
55	E9	2.43	36/943 (3.8%)	2.37	79/1444 (5.5%)
56	EA	2.45	18/435 (4.1%)	2.53	46/670 (6.9%)
57	EC	2.41	21/531 (4.0%)	2.36	46/816 (5.6%)
58	ED	2.49	36/873 (4.1%)	2.45	81/1342 (6.0%)
59	F1	2.47	18/451 (4.0%)	2.32	41/689 (6.0%)
60	F2	2.36	30/797 (3.8%)	2.37	69/1217 (5.7%)
61	F3	2.42	23/600 (3.8%)	2.37	54/918 (5.9%)
62	F5	2.33	41/1080 (3.8%)	2.32	83/1647 (5.0%)
63	F6	2.42	16/421 (3.8%)	2.35	38/645 (5.9%)
64	F7	2.31	25/667 (3.7%)	2.30	53/1020 (5.2%)
65	F8	2.48	16/409 (3.9%)	2.31	35/625 (5.6%)
66	F9	2.41	16/420 (3.8%)	2.34	37/644 (5.7%)
67	FA	2.34	29/768 (3.8%)	2.40	68/1178 (5.8%)
68	FC	2.45	17/443 (3.8%)	2.38	37/680 (5.4%)
69	FD	2.41	42/1093 (3.8%)	2.34	92/1674 (5.5%)
70	G1	2.44	17/435 (3.9%)	2.40	39/666 (5.9%)
71	G2	2.41	16/413 (3.9%)	2.23	36/631 (5.7%)
72	G3	2.55	27/638 (4.2%)	2.49	64/982 (6.5%)
73	G5	2.41	21/550 (3.8%)	2.26	48/841 (5.7%)
74	G6	2.40	30/757 (4.0%)	2.46	65/1162 (5.6%)
75	G7	2.37	25/662 (3.8%)	2.24	56/1009 (5.6%)
76	G8	2.36	20/548 (3.6%)	2.28	48/842 (5.7%)
77	G9	2.40	17/433 (3.9%)	2.37	36/664 (5.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
78	GA	2.48	18/444 (4.1%)	2.32	41/684 (6.0%)
79	GC	2.45	23/598 (3.8%)	2.35	54/916 (5.9%)
80	GD	2.39	16/421 (3.8%)	2.24	34/646 (5.3%)
81	H1	2.35	16/419 (3.8%)	2.32	33/643 (5.1%)
82	H2	2.41	46/1160 (4.0%)	2.43	105/1776 (5.9%)
83	H3	2.41	37/967 (3.8%)	2.33	81/1480 (5.5%)
84	H5	2.39	35/905 (3.9%)	2.34	78/1383 (5.6%)
85	H6	2.44	32/810 (4.0%)	2.34	74/1242 (6.0%)
86	H7	2.43	18/463 (3.9%)	2.37	40/711 (5.6%)
87	H8	2.42	19/487 (3.9%)	2.28	43/746 (5.8%)
88	H9	2.42	27/720 (3.8%)	2.36	59/1103 (5.3%)
89	HA	2.40	28/700 (4.0%)	2.35	60/1077 (5.6%)
90	HC	2.49	22/546 (4.0%)	2.37	53/836 (6.3%)
91	HD	2.45	22/553 (4.0%)	2.46	50/849 (5.9%)
92	I1	2.38	19/491 (3.9%)	2.35	39/754 (5.2%)
93	I2	2.42	43/1122 (3.8%)	2.38	104/1716 (6.1%)
94	I3	2.40	51/1368 (3.7%)	2.32	114/2093 (5.4%)
95	I5	2.34	37/989 (3.7%)	2.26	80/1518 (5.3%)
96	I6	2.40	17/427 (4.0%)	2.45	39/654 (6.0%)
97	I7	2.43	27/692 (3.9%)	2.34	63/1061 (5.9%)
98	I8	2.41	36/923 (3.9%)	2.29	75/1415 (5.3%)
99	I9	2.43	27/695 (3.9%)	2.43	64/1066 (6.0%)
100	IA	2.44	18/435 (4.1%)	2.33	40/668 (6.0%)
101	IC	2.41	21/525 (4.0%)	2.46	48/805 (6.0%)
102	ID	2.41	30/773 (3.9%)	2.37	70/1189 (5.9%)
103	J1	2.43	25/642 (3.9%)	2.42	57/983 (5.8%)
104	J2	2.43	37/953 (3.9%)	2.31	85/1455 (5.8%)
105	J3	2.38	27/676 (4.0%)	2.40	56/1035 (5.4%)
106	J5	2.43	33/863 (3.8%)	2.32	75/1323 (5.7%)
107	J6	2.35	38/1018 (3.7%)	2.26	81/1556 (5.2%)
108	J7	2.35	49/1290 (3.8%)	2.33	109/1975 (5.5%)
109	J8	2.40	48/1253 (3.8%)	2.37	103/1921 (5.4%)
110	J9	2.52	16/410 (3.9%)	2.45	37/627 (5.9%)
111	JA	2.49	18/440 (4.1%)	2.40	44/677 (6.5%)
112	JC	2.39	23/594 (3.9%)	2.40	47/909 (5.2%)
113	JD	2.37	33/889 (3.7%)	2.31	74/1362 (5.4%)
114	K1	2.37	39/1036 (3.8%)	2.30	83/1584 (5.2%)
115	K2	2.43	29/752 (3.9%)	2.46	65/1151 (5.6%)
116	K3	2.44	16/415 (3.9%)	2.28	36/635 (5.7%)
117	K5	2.38	42/1106 (3.8%)	2.35	94/1688 (5.6%)
118	K6	2.41	16/407 (3.9%)	2.39	34/623 (5.5%)
119	K7	2.38	37/985 (3.8%)	2.42	84/1507 (5.6%)
120	K8	2.40	20/526 (3.8%)	2.31	46/804 (5.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
121	K9	2.39	23/597 (3.9%)	2.33	50/914 (5.5%)
122	KA	2.38	45/1166 (3.9%)	2.33	98/1784 (5.5%)
123	KC	2.41	22/564 (3.9%)	2.32	47/868 (5.4%)
124	KD	2.45	21/530 (4.0%)	2.30	48/813 (5.9%)
125	L1	2.41	51/1300 (3.9%)	2.36	113/1996 (5.7%)
126	L2	2.42	51/1283 (4.0%)	2.31	113/1965 (5.8%)
127	L3	2.38	17/424 (4.0%)	2.45	40/648 (6.2%)
128	L5	2.45	21/522 (4.0%)	2.44	50/800 (6.2%)
129	L6	2.42	22/548 (4.0%)	2.44	47/841 (5.6%)
130	L7	2.33	52/1386 (3.8%)	2.32	113/2120 (5.3%)
131	L8	2.42	22/559 (3.9%)	2.26	47/858 (5.5%)
132	L9	2.39	17/441 (3.9%)	2.30	34/676 (5.0%)
133	LA	2.40	19/498 (3.8%)	2.42	44/762 (5.8%)
134	LC	2.44	16/413 (3.9%)	2.35	38/632 (6.0%)
135	LD	2.35	16/409 (3.9%)	2.36	32/626 (5.1%)
136	M2	2.45	20/483 (4.1%)	2.45	41/744 (5.5%)
137	M3	2.39	31/813 (3.8%)	2.26	70/1244 (5.6%)
138	M5	2.38	37/959 (3.9%)	2.31	77/1467 (5.2%)
139	M6	2.46	22/565 (3.9%)	2.37	50/862 (5.8%)
140	M7	2.41	23/595 (3.9%)	2.30	50/909 (5.5%)
141	M8	2.43	25/592 (4.2%)	2.40	55/910 (6.0%)
142	M9	2.39	21/531 (4.0%)	2.39	43/815 (5.3%)
143	MA	2.49	39/999 (3.9%)	2.35	89/1526 (5.8%)
144	MC	2.35	21/530 (4.0%)	2.48	50/816 (6.1%)
145	MD	2.39	51/1323 (3.9%)	2.37	115/2022 (5.7%)
146	N2	2.40	21/555 (3.8%)	2.26	45/849 (5.3%)
147	N3	2.52	33/796 (4.1%)	2.45	77/1222 (6.3%)
148	N5	2.41	29/721 (4.0%)	2.38	68/1109 (6.1%)
149	N6	2.40	46/1158 (4.0%)	2.40	104/1773 (5.9%)
150	N7	2.50	22/532 (4.1%)	2.42	50/819 (6.1%)
151	N8	2.36	18/477 (3.8%)	2.40	42/728 (5.8%)
152	N9	2.37	45/1212 (3.7%)	2.32	97/1858 (5.2%)
153	NA	2.46	18/451 (4.0%)	2.34	42/695 (6.0%)
154	NC	2.42	33/871 (3.8%)	2.35	72/1333 (5.4%)
155	ND	2.38	18/471 (3.8%)	2.32	41/724 (5.7%)
156	O2	2.41	52/1370 (3.8%)	2.32	122/2092 (5.8%)
157	O3	2.32	21/562 (3.7%)	2.27	43/861 (5.0%)
158	O5	2.39	44/1129 (3.9%)	2.28	91/1729 (5.3%)
159	O6	2.44	21/526 (4.0%)	2.40	50/807 (6.2%)
160	O7	2.42	47/1203 (3.9%)	2.32	107/1845 (5.8%)
161	O8	2.40	52/1329 (3.9%)	2.35	119/2035 (5.8%)
162	O9	2.36	16/410 (3.9%)	2.28	34/626 (5.4%)
163	OA	2.52	18/437 (4.1%)	2.40	41/671 (6.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
164	OC	2.49	22/536 (4.1%)	2.42	53/819 (6.5%)
165	OD	2.36	51/1344 (3.8%)	2.29	109/2056 (5.3%)
166	P2	2.49	29/698 (4.2%)	2.53	67/1072 (6.2%)
167	P3	2.40	33/858 (3.8%)	2.35	76/1309 (5.8%)
168	P5	2.41	16/412 (3.9%)	2.40	37/631 (5.9%)
169	P6	2.47	16/418 (3.8%)	2.45	39/641 (6.1%)
170	P7	2.38	16/416 (3.8%)	2.34	32/637 (5.0%)
171	P8	2.39	22/530 (4.2%)	2.47	49/811 (6.0%)
172	P9	2.42	22/539 (4.1%)	2.43	50/827 (6.0%)
173	PA	2.41	34/877 (3.9%)	2.29	75/1343 (5.6%)
174	PC	2.47	21/533 (3.9%)	2.44	48/819 (5.9%)
175	PD	2.41	20/530 (3.8%)	2.32	45/810 (5.6%)
176	Q2	2.42	18/440 (4.1%)	2.34	37/676 (5.5%)
177	Q3	2.40	21/524 (4.0%)	2.40	44/804 (5.5%)
178	Q5	2.37	37/957 (3.9%)	2.41	81/1465 (5.5%)
179	Q7	2.49	22/529 (4.2%)	2.46	49/814 (6.0%)
180	Q8	2.42	22/545 (4.0%)	2.43	47/835 (5.6%)
181	Q9	2.36	34/882 (3.9%)	2.37	77/1347 (5.7%)
182	QA	2.47	25/653 (3.8%)	2.39	60/1002 (6.0%)
183	QC	2.39	20/527 (3.8%)	2.34	43/806 (5.3%)
184	QD	2.35	27/697 (3.9%)	2.30	55/1063 (5.2%)
185	R2	2.35	21/563 (3.7%)	2.34	46/863 (5.3%)
186	R3	2.46	16/412 (3.9%)	2.45	37/631 (5.9%)
187	R5	2.44	37/956 (3.9%)	2.37	90/1461 (6.2%)
188	R7	2.44	30/745 (4.0%)	2.42	69/1147 (6.0%)
189	R8	2.40	36/911 (4.0%)	2.30	75/1394 (5.4%)
190	R9	2.36	40/1058 (3.8%)	2.34	85/1618 (5.3%)
191	RA	2.39	24/622 (3.9%)	2.33	50/953 (5.2%)
192	RC	2.47	30/723 (4.1%)	2.44	65/1109 (5.9%)
193	RD	2.37	16/411 (3.9%)	2.25	30/628 (4.8%)
194	S2	2.44	28/697 (4.0%)	2.42	64/1072 (6.0%)
195	S3	2.43	26/650 (4.0%)	2.44	60/999 (6.0%)
196	S5	2.36	28/738 (3.8%)	2.32	66/1128 (5.9%)
197	S7	2.43	21/535 (3.9%)	2.31	48/815 (5.9%)
198	S8	2.39	35/912 (3.8%)	2.32	76/1394 (5.5%)
199	S9	2.48	21/538 (3.9%)	2.38	51/826 (6.2%)
200	SA	2.45	22/552 (4.0%)	2.43	49/847 (5.8%)
201	SC	2.47	18/443 (4.1%)	2.29	39/681 (5.7%)
202	SD	2.36	23/603 (3.8%)	2.28	51/923 (5.5%)
203	T2	2.44	22/550 (4.0%)	2.40	50/844 (5.9%)
204	T3	2.42	39/1022 (3.8%)	2.39	90/1563 (5.8%)
205	T5	2.47	22/542 (4.1%)	2.32	51/828 (6.2%)
206	T7	2.39	48/1315 (3.7%)	2.31	112/2013 (5.6%)



Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
207	T8	2.44	22/557 (3.9%)	2.36	53/856 (6.2%)
208	T9	2.38	16/402 (4.0%)	2.39	34/614 (5.5%)
209	TA	2.39	36/971 (3.7%)	2.35	83/1485 (5.6%)
210	TC	2.38	23/597 (3.9%)	2.27	52/912 (5.7%)
211	TD	2.43	38/961 (4.0%)	2.44	83/1474 (5.6%)
212	U2	2.47	22/546 (4.0%)	2.36	48/837 (5.7%)
213	U3	2.38	23/609 (3.8%)	2.31	52/935 (5.6%)
214	U5	2.41	37/953 (3.9%)	2.41	81/1458 (5.6%)
215	U7	2.49	22/525 (4.2%)	2.44	47/808 (5.8%)
216	U8	2.37	21/555 (3.8%)	2.36	47/850 (5.5%)
217	U9	2.48	22/551 (4.0%)	2.45	49/846 (5.8%)
218	UA	2.40	17/443 (3.8%)	2.37	39/682 (5.7%)
219	UC	2.44	30/734 (4.1%)	2.40	64/1128 (5.7%)
220	UD	2.49	21/518 (4.1%)	2.45	49/793 (6.2%)
221	V2	2.38	24/615 (3.9%)	2.36	54/941 (5.7%)
222	V3	2.37	22/581 (3.8%)	2.37	47/891 (5.3%)
223	V5	2.41	36/946 (3.8%)	2.32	81/1448 (5.6%)
224	V7	2.43	16/412 (3.9%)	2.26	34/630 (5.4%)
225	V8	2.40	19/518 (3.7%)	2.26	41/793 (5.2%)
226	V9	2.38	30/791 (3.8%)	2.27	65/1211 (5.4%)
227	VA	2.39	25/664 (3.8%)	2.40	60/1015 (5.9%)
228	VC	2.43	36/924 (3.9%)	2.33	78/1416 (5.5%)
229	VD	2.35	18/493 (3.7%)	2.18	39/753 (5.2%)
230	W3	2.37	43/1125 (3.8%)	2.32	90/1722 (5.2%)
231	W5	2.39	28/714 (3.9%)	2.40	63/1097 (5.7%)
232	W7	2.47	22/520 (4.2%)	2.53	50/800 (6.2%)
233	W8	2.39	19/491 (3.9%)	2.32	41/754 (5.4%)
234	W9	2.39	17/445 (3.8%)	2.31	41/683 (6.0%)
235	WD	2.35	16/415 (3.9%)	2.33	38/635 (6.0%)
236	X5	2.40	19/479 (4.0%)	2.40	36/734 (4.9%)
237	X7	2.45	22/521 (4.2%)	2.34	47/799 (5.9%)
238	X9	2.38	51/1353 (3.8%)	2.33	112/2067 (5.4%)
All	All	2.45	13501/331404 (4.1%)	2.41	30283/509182 (5.9%)

All (13501) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	DD	5	DC	O3'-P	15.09	1.79	1.61
70	G1	7	DC	O3'-P	15.09	1.79	1.61
11	AB	4610	DC	O3'-P	15.09	1.79	1.61
91	HD	18	DC	O3'-P	15.09	1.79	1.61
11	AB	1820	DC	O3'-P	15.08	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	203	DC	O3'-P	15.08	1.79	1.61
11	AB	5011	DC	O3'-P	15.08	1.79	1.61
66	F9	14	DC	O3'-P	15.08	1.79	1.61
11	AB	2340	DC	O3'-P	15.08	1.79	1.61
11	AB	1100	DC	O3'-P	15.06	1.79	1.61
11	AB	260	DC	O3'-P	15.06	1.79	1.61
11	AB	5086	DC	O3'-P	15.06	1.79	1.61
231	W5	34	DC	O3'-P	15.06	1.79	1.61
11	AB	3167	DC	O3'-P	15.06	1.79	1.61
11	AB	4880	DC	O3'-P	15.05	1.79	1.61
98	I8	38	DC	O3'-P	15.05	1.79	1.61
107	J6	34	DC	O3'-P	15.05	1.79	1.61
212	U2	19	DC	O3'-P	15.04	1.79	1.61
28	C3	23	DC	O3'-P	15.04	1.79	1.61
42	D7	13	DC	O3'-P	15.04	1.79	1.61
11	AB	6645	DC	O3'-P	15.04	1.79	1.61
11	AB	365	DC	O3'-P	15.03	1.79	1.61
11	AB	686	DC	O3'-P	15.03	1.79	1.61
72	G3	13	DC	O3'-P	15.03	1.79	1.61
175	PD	19	DC	O3'-P	15.03	1.79	1.61
93	I2	18	DC	O3'-P	15.03	1.79	1.61
169	P6	6	DC	O3'-P	15.03	1.79	1.61
11	AB	1997	DC	O3'-P	15.03	1.79	1.61
53	E7	12	DC	O3'-P	15.03	1.79	1.61
52	E6	6	DC	O3'-P	15.02	1.79	1.61
11	AB	4003	DC	O3'-P	15.02	1.79	1.61
11	AB	5992	DC	O3'-P	15.02	1.79	1.61
163	OA	11	DC	O3'-P	15.02	1.79	1.61
122	KA	2	DC	O3'-P	15.02	1.79	1.61
116	K3	14	DC	O3'-P	15.02	1.79	1.61
3	A3	12	DC	O3'-P	15.02	1.79	1.61
11	AB	4589	DC	O3'-P	15.02	1.79	1.61
11	AB	5018	DC	O3'-P	15.02	1.79	1.61
164	OC	10	DC	O3'-P	15.02	1.79	1.61
217	U9	22	DC	O3'-P	15.02	1.79	1.61
11	AB	3207	DC	O3'-P	15.01	1.79	1.61
152	N9	25	DC	O3'-P	15.01	1.79	1.61
166	P2	12	DC	O3'-P	15.01	1.79	1.61
11	AB	944	DC	O3'-P	15.01	1.79	1.61
220	UD	6	DC	O3'-P	15.01	1.79	1.61
39	D3	9	DC	O3'-P	15.01	1.79	1.61
78	GA	1	DC	O3'-P	15.01	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
93	I2	29	DC	O3'-P	15.01	1.79	1.61
115	K2	10	DC	O3'-P	15.01	1.79	1.61
236	X5	18	DC	O3'-P	15.01	1.79	1.61
11	AB	658	DC	O3'-P	15.00	1.79	1.61
11	AB	2525	DC	O3'-P	15.00	1.79	1.61
11	AB	3490	DC	O3'-P	15.00	1.79	1.61
11	AB	4104	DC	O3'-P	15.00	1.79	1.61
11	AB	5214	DC	O3'-P	15.00	1.79	1.61
11	AB	5532	DC	O3'-P	15.00	1.79	1.61
111	JA	9	DC	O3'-P	15.00	1.79	1.61
13	AD	15	DC	O3'-P	15.00	1.79	1.61
150	N7	19	DC	O3'-P	15.00	1.79	1.61
205	T5	1	DC	O3'-P	15.00	1.79	1.61
238	X9	36	DC	O3'-P	15.00	1.79	1.61
11	AB	3291	DC	O3'-P	15.00	1.79	1.61
58	ED	36	DC	O3'-P	15.00	1.79	1.61
94	I3	46	DC	O3'-P	15.00	1.79	1.61
230	W3	36	DC	O3'-P	15.00	1.79	1.61
148	N5	11	DC	O3'-P	15.00	1.79	1.61
211	TD	38	DC	O3'-P	15.00	1.79	1.61
11	AB	1814	DC	O3'-P	14.99	1.79	1.61
11	AB	3457	DC	O3'-P	14.99	1.79	1.61
11	AB	3524	DC	O3'-P	14.99	1.79	1.61
11	AB	4117	DC	O3'-P	14.99	1.79	1.61
11	AB	6063	DC	O3'-P	14.99	1.79	1.61
11	AB	4735	DC	O3'-P	14.99	1.79	1.61
11	AB	4997	DC	O3'-P	14.99	1.79	1.61
45	DA	19	DC	O3'-P	14.99	1.79	1.61
11	AB	4086	DC	O3'-P	14.99	1.79	1.61
11	AB	4232	DC	O3'-P	14.99	1.79	1.61
49	E2	5	DC	O3'-P	14.99	1.79	1.61
11	AB	5454	DC	O3'-P	14.99	1.79	1.61
11	AB	6186	DC	O3'-P	14.99	1.79	1.61
49	E2	39	DC	O3'-P	14.99	1.79	1.61
167	P3	8	DC	O3'-P	14.99	1.79	1.61
177	Q3	18	DC	O3'-P	14.99	1.79	1.61
190	R9	44	DC	O3'-P	14.99	1.79	1.61
222	V3	16	DC	O3'-P	14.99	1.79	1.61
238	X9	54	DC	O3'-P	14.99	1.79	1.61
200	SA	25	DC	O3'-P	14.99	1.79	1.61
229	VD	4	DC	O3'-P	14.99	1.79	1.61
11	AB	3565	DC	O3'-P	14.99	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5447	DC	O3'-P	14.99	1.79	1.61
32	C8	27	DC	O3'-P	14.99	1.79	1.61
94	I3	49	DC	O3'-P	14.99	1.79	1.61
113	JD	13	DC	O3'-P	14.99	1.79	1.61
11	AB	737	DC	O3'-P	14.98	1.79	1.61
11	AB	857	DC	O3'-P	14.98	1.79	1.61
11	AB	1942	DC	O3'-P	14.98	1.79	1.61
143	MA	10	DC	O3'-P	14.98	1.79	1.61
182	QA	1	DC	O3'-P	14.98	1.79	1.61
214	U5	6	DC	O3'-P	14.98	1.79	1.61
223	V5	5	DC	O3'-P	14.98	1.79	1.61
186	R3	18	DC	O3'-P	14.98	1.79	1.61
187	R5	9	DC	O3'-P	14.98	1.79	1.61
214	U5	26	DC	O3'-P	14.98	1.79	1.61
11	AB	1723	DC	O3'-P	14.98	1.79	1.61
164	OC	13	DC	O3'-P	14.98	1.79	1.61
11	AB	860	DC	O3'-P	14.98	1.79	1.61
11	AB	2523	DC	O3'-P	14.98	1.79	1.61
11	AB	5071	DC	O3'-P	14.98	1.79	1.61
52	E6	15	DC	O3'-P	14.98	1.79	1.61
182	QA	5	DC	O3'-P	14.98	1.79	1.61
11	AB	968	DC	O3'-P	14.97	1.79	1.61
11	AB	2208	DC	O3'-P	14.97	1.79	1.61
11	AB	4481	DC	O3'-P	14.97	1.79	1.61
11	AB	6591	DC	O3'-P	14.97	1.79	1.61
11	AB	7242	DC	O3'-P	14.97	1.79	1.61
14	B1	31	DC	O3'-P	14.97	1.79	1.61
143	MA	44	DC	O3'-P	14.97	1.79	1.61
169	P6	11	DC	O3'-P	14.97	1.79	1.61
11	AB	1982	DC	O3'-P	14.97	1.79	1.61
11	AB	2027	DC	O3'-P	14.97	1.79	1.61
11	AB	4084	DC	O3'-P	14.97	1.79	1.61
11	AB	4599	DC	O3'-P	14.97	1.79	1.61
91	HD	24	DC	O3'-P	14.97	1.79	1.61
11	AB	2205	DC	O3'-P	14.97	1.79	1.61
11	AB	2976	DC	O3'-P	14.97	1.79	1.61
11	AB	4089	DC	O3'-P	14.97	1.79	1.61
11	AB	4666	DC	O3'-P	14.97	1.79	1.61
73	G5	13	DC	O3'-P	14.97	1.79	1.61
134	LC	17	DC	O3'-P	14.97	1.79	1.61
156	O2	38	DC	O3'-P	14.97	1.79	1.61
11	AB	3620	DC	O3'-P	14.97	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4883	DC	O3'-P	14.97	1.79	1.61
11	AB	3780	DC	O3'-P	14.96	1.79	1.61
11	AB	4247	DC	O3'-P	14.96	1.79	1.61
11	AB	4289	DC	O3'-P	14.96	1.79	1.61
11	AB	7077	DC	O3'-P	14.96	1.79	1.61
40	D5	5	DC	O3'-P	14.97	1.79	1.61
163	OA	3	DC	O3'-P	14.96	1.79	1.61
191	RA	14	DC	O3'-P	14.96	1.79	1.61
218	UA	15	DC	O3'-P	14.97	1.79	1.61
204	T3	2	DC	O3'-P	14.96	1.79	1.61
224	V7	15	DC	O3'-P	14.96	1.79	1.61
11	AB	929	DC	O3'-P	14.96	1.79	1.61
11	AB	1980	DC	O3'-P	14.96	1.79	1.61
11	AB	2590	DC	O3'-P	14.96	1.79	1.61
11	AB	1088	DC	O3'-P	14.96	1.79	1.61
11	AB	7090	DC	O3'-P	14.96	1.79	1.61
18	B5	2	DC	O3'-P	14.96	1.79	1.61
61	F3	16	DC	O3'-P	14.96	1.79	1.61
94	I3	19	DC	O3'-P	14.96	1.79	1.61
11	AB	823	DC	O3'-P	14.96	1.79	1.61
11	AB	1124	DC	O3'-P	14.96	1.79	1.61
11	AB	6580	DC	O3'-P	14.96	1.79	1.61
11	AB	7186	DC	O3'-P	14.96	1.79	1.61
128	L5	3	DC	O3'-P	14.96	1.79	1.61
154	NC	23	DC	O3'-P	14.96	1.79	1.61
211	TD	40	DC	O3'-P	14.96	1.79	1.61
11	AB	1019	DC	O3'-P	14.96	1.79	1.61
11	AB	1525	DC	O3'-P	14.96	1.79	1.61
227	VA	21	DC	O3'-P	14.96	1.79	1.61
11	AB	3474	DC	O3'-P	14.95	1.79	1.61
11	AB	4144	DC	O3'-P	14.95	1.79	1.61
11	AB	5592	DC	O3'-P	14.95	1.79	1.61
181	Q9	15	DC	O3'-P	14.95	1.79	1.61
72	G3	10	DC	O3'-P	14.95	1.79	1.61
11	AB	5440	DC	O3'-P	14.95	1.79	1.61
11	AB	6948	DC	O3'-P	14.95	1.79	1.61
147	N3	6	DC	O3'-P	14.95	1.79	1.61
182	QA	23	DC	O3'-P	14.95	1.79	1.61
3	A3	9	DC	O3'-P	14.95	1.79	1.61
11	AB	3019	DC	O3'-P	14.95	1.79	1.61
11	AB	4132	DC	O3'-P	14.95	1.79	1.61
11	AB	4321	DC	O3'-P	14.95	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4331	DC	O3'-P	14.95	1.79	1.61
11	AB	4806	DC	O3'-P	14.95	1.79	1.61
192	RC	27	DC	O3'-P	14.95	1.79	1.61
219	UC	30	DC	O3'-P	14.95	1.79	1.61
11	AB	950	DC	O3'-P	14.95	1.79	1.61
11	AB	2995	DC	O3'-P	14.95	1.79	1.61
11	AB	4730	DC	O3'-P	14.95	1.79	1.61
30	C6	40	DC	O3'-P	14.95	1.79	1.61
159	O6	6	DC	O3'-P	14.95	1.79	1.61
113	JD	25	DC	O3'-P	14.95	1.79	1.61
156	O2	53	DC	O3'-P	14.95	1.79	1.61
11	AB	4541	DC	O3'-P	14.95	1.79	1.61
11	AB	4867	DC	O3'-P	14.95	1.79	1.61
149	N6	35	DC	O3'-P	14.95	1.79	1.61
37	D1	10	DC	O3'-P	14.95	1.79	1.61
59	F1	1	DC	O3'-P	14.95	1.79	1.61
147	N3	18	DC	O3'-P	14.95	1.79	1.61
227	VA	23	DC	O3'-P	14.95	1.79	1.61
11	AB	3610	DC	O3'-P	14.94	1.79	1.61
11	AB	3756	DC	O3'-P	14.94	1.79	1.61
11	AB	5865	DC	O3'-P	14.94	1.79	1.61
11	AB	6723	DC	O3'-P	14.94	1.79	1.61
129	L6	24	DC	O3'-P	14.94	1.79	1.61
145	MD	14	DC	O3'-P	14.94	1.79	1.61
207	T8	21	DC	O3'-P	14.94	1.79	1.61
11	AB	4302	DC	O3'-P	14.94	1.79	1.61
11	AB	4255	DC	O3'-P	14.94	1.79	1.61
11	AB	7201	DC	O3'-P	14.94	1.79	1.61
76	G8	14	DC	O3'-P	14.94	1.79	1.61
88	H9	19	DC	O3'-P	14.94	1.79	1.61
145	MD	32	DC	O3'-P	14.94	1.79	1.61
11	AB	443	DC	O3'-P	14.94	1.79	1.61
11	AB	4111	DC	O3'-P	14.94	1.79	1.61
11	AB	4601	DC	O3'-P	14.94	1.79	1.61
11	AB	5149	DC	O3'-P	14.94	1.79	1.61
11	AB	6412	DC	O3'-P	14.94	1.79	1.61
72	G3	19	DC	O3'-P	14.94	1.79	1.61
143	MA	13	DC	O3'-P	14.94	1.79	1.61
147	N3	24	DC	O3'-P	14.94	1.79	1.61
182	QA	17	DC	O3'-P	14.94	1.79	1.61
11	AB	2673	DC	O3'-P	14.93	1.79	1.61
11	AB	2434	DC	O3'-P	14.93	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3567	DC	O3'-P	14.93	1.79	1.61
22	B9	33	DC	O3'-P	14.93	1.79	1.61
41	D6	4	DC	O3'-P	14.93	1.79	1.61
11	AB	2055	DC	O3'-P	14.93	1.79	1.61
11	AB	1407	DC	O3'-P	14.93	1.79	1.61
11	AB	3141	DC	O3'-P	14.93	1.79	1.61
11	AB	4758	DC	O3'-P	14.93	1.79	1.61
11	AB	4942	DC	O3'-P	14.93	1.79	1.61
11	AB	6572	DC	O3'-P	14.93	1.79	1.61
11	AB	6881	DC	O3'-P	14.93	1.79	1.61
79	GC	2	DC	O3'-P	14.93	1.79	1.61
79	GC	16	DC	O3'-P	14.93	1.79	1.61
137	M3	25	DC	O3'-P	14.93	1.79	1.61
161	O8	27	DC	O3'-P	14.93	1.79	1.61
228	VC	32	DC	O3'-P	14.93	1.79	1.61
11	AB	6493	DC	O3'-P	14.93	1.79	1.61
82	H2	29	DC	O3'-P	14.93	1.79	1.61
11	AB	4952	DC	O3'-P	14.92	1.79	1.61
11	AB	1810	DC	O3'-P	14.92	1.79	1.61
11	AB	2083	DC	O3'-P	14.92	1.79	1.61
11	AB	4430	DC	O3'-P	14.92	1.79	1.61
209	TA	24	DC	O3'-P	14.92	1.79	1.61
11	AB	4671	DC	O3'-P	14.92	1.79	1.61
55	E9	17	DC	O3'-P	14.92	1.79	1.61
90	HC	14	DC	O3'-P	14.92	1.79	1.61
11	AB	627	DC	O3'-P	14.92	1.79	1.61
69	FD	45	DC	O3'-P	14.92	1.79	1.61
11	AB	2266	DC	O3'-P	14.92	1.79	1.61
14	B1	8	DC	O3'-P	14.92	1.79	1.61
11	AB	1390	DC	O3'-P	14.92	1.79	1.61
11	AB	3528	DC	O3'-P	14.92	1.79	1.61
11	AB	4106	DC	O3'-P	14.92	1.79	1.61
11	AB	4800	DC	O3'-P	14.91	1.79	1.61
48	E1	13	DC	O3'-P	14.91	1.79	1.61
178	Q5	4	DC	O3'-P	14.91	1.79	1.61
10	AA	10	DC	O3'-P	14.91	1.79	1.61
11	AB	4436	DC	O3'-P	14.91	1.79	1.61
11	AB	5133	DC	O3'-P	14.91	1.79	1.61
119	K7	8	DC	O3'-P	14.91	1.79	1.61
150	N7	12	DC	O3'-P	14.91	1.79	1.61
11	AB	1227	DC	O3'-P	14.91	1.79	1.61
11	AB	6430	DC	O3'-P	14.91	1.79	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
199	S9	9	DC	O3'-P	14.91	1.79	1.61
11	AB	3984	DC	O3'-P	14.91	1.79	1.61
11	AB	2414	DC	O3'-P	14.91	1.79	1.61
22	B9	16	DC	O3'-P	14.91	1.79	1.61
133	LA	18	DC	O3'-P	14.91	1.79	1.61
166	P2	10	DC	O3'-P	14.91	1.79	1.61
178	Q5	8	DC	O3'-P	14.91	1.79	1.61
5	A5	24	DC	O3'-P	14.90	1.79	1.61
11	AB	2109	DC	O3'-P	14.90	1.79	1.61
217	U9	19	DC	O3'-P	14.90	1.79	1.61
88	H9	29	DC	O3'-P	14.90	1.79	1.61
167	P3	2	DC	O3'-P	14.90	1.79	1.61
11	AB	4870	DC	O3'-P	14.90	1.79	1.61
11	AB	6478	DC	O3'-P	14.90	1.79	1.61
11	AB	5863	DC	O3'-P	14.89	1.79	1.61
11	AB	4140	DC	O3'-P	14.89	1.79	1.61
11	AB	4603	DC	O3'-P	14.89	1.79	1.61
11	AB	6348	DC	O3'-P	14.89	1.79	1.61
145	MD	12	DC	O3'-P	14.89	1.79	1.61
112	JC	3	DC	O3'-P	14.89	1.79	1.61
223	V5	2	DC	O3'-P	14.89	1.79	1.61
11	AB	2172	DC	O3'-P	14.89	1.79	1.61
63	F6	10	DC	O3'-P	14.88	1.79	1.61
83	H3	36	DC	O3'-P	14.88	1.79	1.61
99	I9	26	DC	O3'-P	14.88	1.79	1.61
11	AB	428	DC	O3'-P	14.88	1.79	1.61
1	A1	52	DC	O3'-P	14.88	1.79	1.61
125	L1	5	DC	O3'-P	14.88	1.79	1.61
11	AB	1255	DC	O3'-P	14.88	1.79	1.61
11	AB	5095	DC	O3'-P	14.88	1.79	1.61
11	AB	7207	DC	O3'-P	14.88	1.79	1.61
11	AB	6336	DC	O3'-P	14.87	1.78	1.61
226	V9	21	DC	O3'-P	14.87	1.78	1.61
11	AB	1266	DC	O3'-P	14.87	1.78	1.61
11	AB	2170	DC	O3'-P	14.87	1.78	1.61
11	AB	2655	DC	O3'-P	14.87	1.78	1.61
25	BD	6	DC	O3'-P	14.87	1.78	1.61
72	G3	25	DC	O3'-P	14.87	1.78	1.61
11	AB	2454	DC	O3'-P	14.87	1.78	1.61
11	AB	5703	DC	O3'-P	14.87	1.78	1.61
11	AB	2312	DC	O3'-P	14.86	1.78	1.61
11	AB	6167	DC	O3'-P	14.86	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6169	DC	O3'-P	14.86	1.78	1.61
11	AB	5166	DC	O3'-P	14.86	1.78	1.61
65	F8	10	DC	O3'-P	14.86	1.78	1.61
11	AB	293	DC	O3'-P	14.86	1.78	1.61
176	Q2	14	DC	O3'-P	14.86	1.78	1.61
11	AB	7215	DC	O3'-P	14.85	1.78	1.61
139	M6	20	DC	O3'-P	14.85	1.78	1.61
11	AB	15	DC	O3'-P	14.85	1.78	1.61
35	CC	17	DC	O3'-P	14.85	1.78	1.61
87	H8	18	DC	O3'-P	14.85	1.78	1.61
104	J2	15	DC	O3'-P	14.85	1.78	1.61
58	ED	30	DC	O3'-P	14.85	1.78	1.61
116	K3	5	DC	O3'-P	14.85	1.78	1.61
11	AB	3954	DC	O3'-P	14.85	1.78	1.61
213	U3	4	DC	O3'-P	14.84	1.78	1.61
11	AB	3730	DC	O3'-P	14.84	1.78	1.61
130	L7	29	DC	O3'-P	14.84	1.78	1.61
33	C9	5	DC	O3'-P	14.84	1.78	1.61
11	AB	2919	DC	O3'-P	14.84	1.78	1.61
54	E8	27	DC	O3'-P	14.84	1.78	1.61
1	A1	28	DC	O3'-P	14.83	1.78	1.61
115	K2	36	DC	O3'-P	14.83	1.78	1.61
10	AA	19	DC	O3'-P	14.83	1.78	1.61
43	D8	24	DC	O3'-P	14.83	1.78	1.61
48	E1	25	DC	O3'-P	14.83	1.78	1.61
120	K8	7	DC	O3'-P	14.83	1.78	1.61
126	L2	35	DC	O3'-P	14.83	1.78	1.61
11	AB	4211	DC	O3'-P	14.83	1.78	1.61
11	AB	4975	DC	O3'-P	14.83	1.78	1.61
11	AB	7058	DC	O3'-P	14.83	1.78	1.61
56	EA	19	DC	O3'-P	14.83	1.78	1.61
144	MC	3	DC	O3'-P	14.83	1.78	1.61
11	AB	6433	DC	O3'-P	14.82	1.78	1.61
103	J1	25	DC	O3'-P	14.82	1.78	1.61
11	AB	288	DC	O3'-P	14.82	1.78	1.61
161	O8	50	DC	O3'-P	14.82	1.78	1.61
225	V8	21	DC	O3'-P	14.82	1.78	1.61
11	AB	1449	DC	O3'-P	14.82	1.78	1.61
97	I7	7	DC	O3'-P	14.82	1.78	1.61
115	K2	19	DC	O3'-P	14.82	1.78	1.61
153	NA	6	DC	O3'-P	14.82	1.78	1.61
11	AB	5908	DC	O3'-P	14.81	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1913	DC	O3'-P	14.81	1.78	1.61
42	D7	17	DC	O3'-P	14.81	1.78	1.61
68	FC	6	DC	O3'-P	14.81	1.78	1.61
11	AB	535	DC	O3'-P	14.81	1.78	1.61
11	AB	1668	DC	O3'-P	14.81	1.78	1.61
11	AB	2539	DC	O3'-P	14.81	1.78	1.61
11	AB	4017	DC	O3'-P	14.81	1.78	1.61
11	AB	5034	DC	O3'-P	14.81	1.78	1.61
11	AB	6278	DC	O3'-P	14.81	1.78	1.61
11	AB	998	DC	O3'-P	14.80	1.78	1.61
11	AB	4397	DC	O3'-P	14.81	1.78	1.61
11	AB	1118	DC	O3'-P	14.80	1.78	1.61
11	AB	5682	DC	O3'-P	14.80	1.78	1.61
11	AB	1738	DC	O3'-P	14.80	1.78	1.61
11	AB	5052	DC	O3'-P	14.80	1.78	1.61
11	AB	5122	DC	O3'-P	14.80	1.78	1.61
11	AB	7246	DC	O3'-P	14.80	1.78	1.61
196	S5	8	DC	O3'-P	14.80	1.78	1.61
30	C6	32	DC	O3'-P	14.80	1.78	1.61
11	AB	5190	DC	O3'-P	14.80	1.78	1.61
11	AB	6145	DC	O3'-P	14.80	1.78	1.61
23	BA	15	DC	O3'-P	14.80	1.78	1.61
232	W7	22	DC	O3'-P	14.80	1.78	1.61
11	AB	7173	DC	O3'-P	14.80	1.78	1.61
11	AB	1335	DC	O3'-P	14.79	1.78	1.61
11	AB	4970	DC	O3'-P	14.80	1.78	1.61
11	AB	4979	DC	O3'-P	14.80	1.78	1.61
11	AB	6981	DC	O3'-P	14.80	1.78	1.61
11	AB	6998	DC	O3'-P	14.79	1.78	1.61
232	W7	18	DC	O3'-P	14.80	1.78	1.61
168	P5	2	DC	O3'-P	14.79	1.78	1.61
11	AB	4186	DC	O3'-P	14.79	1.78	1.61
79	GC	11	DC	O3'-P	14.79	1.78	1.61
11	AB	52	DC	O3'-P	14.79	1.78	1.61
11	AB	5199	DC	O3'-P	14.79	1.78	1.61
11	AB	5261	DC	O3'-P	14.79	1.78	1.61
59	F1	17	DC	O3'-P	14.79	1.78	1.61
11	AB	4903	DC	O3'-P	14.79	1.78	1.61
12	AC	17	DC	O3'-P	14.79	1.78	1.61
44	D9	29	DC	O3'-P	14.79	1.78	1.61
69	FD	43	DC	O3'-P	14.79	1.78	1.61
98	I8	31	DC	O3'-P	14.79	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
174	PC	6	DC	O3'-P	14.79	1.78	1.61
11	AB	81	DC	O3'-P	14.78	1.78	1.61
11	AB	6916	DC	O3'-P	14.78	1.78	1.61
33	C9	19	DC	O3'-P	14.78	1.78	1.61
11	AB	1468	DC	O3'-P	14.78	1.78	1.61
11	AB	4060	DC	O3'-P	14.78	1.78	1.61
11	AB	4632	DC	O3'-P	14.78	1.78	1.61
11	AB	5128	DC	O3'-P	14.78	1.78	1.61
38	D2	13	DC	O3'-P	14.78	1.78	1.61
11	AB	1196	DC	O3'-P	14.78	1.78	1.61
11	AB	5742	DC	O3'-P	14.78	1.78	1.61
11	AB	4035	DC	O3'-P	14.78	1.78	1.61
11	AB	4196	DC	O3'-P	14.78	1.78	1.61
41	D6	26	DC	O3'-P	14.78	1.78	1.61
93	I2	40	DC	O3'-P	14.78	1.78	1.61
97	I7	32	DC	O3'-P	14.78	1.78	1.61
11	AB	2714	DC	O3'-P	14.78	1.78	1.61
11	AB	2717	DC	O3'-P	14.78	1.78	1.61
11	AB	3878	DC	O3'-P	14.78	1.78	1.61
139	M6	18	DC	O3'-P	14.78	1.78	1.61
173	PA	37	DC	O3'-P	14.78	1.78	1.61
209	TA	13	DC	O3'-P	14.78	1.78	1.61
11	AB	43	DC	O3'-P	14.77	1.78	1.61
11	AB	1348	DC	O3'-P	14.77	1.78	1.61
26	C1	3	DC	O3'-P	14.77	1.78	1.61
43	D8	39	DC	O3'-P	14.77	1.78	1.61
11	AB	767	DC	O3'-P	14.77	1.78	1.61
11	AB	1659	DC	O3'-P	14.77	1.78	1.61
11	AB	5555	DC	O3'-P	14.77	1.78	1.61
11	AB	6832	DC	O3'-P	14.77	1.78	1.61
52	E6	32	DC	O3'-P	14.77	1.78	1.61
84	H5	2	DC	O3'-P	14.77	1.78	1.61
131	L8	24	DC	O3'-P	14.77	1.78	1.61
187	R5	19	DC	O3'-P	14.77	1.78	1.61
11	AB	2450	DC	O3'-P	14.77	1.78	1.61
11	AB	2925	DC	O3'-P	14.77	1.78	1.61
11	AB	4343	DC	O3'-P	14.77	1.78	1.61
47	DD	45	DC	O3'-P	14.77	1.78	1.61
96	I6	4	DC	O3'-P	14.77	1.78	1.61
133	LA	11	DC	O3'-P	14.77	1.78	1.61
160	O7	11	DC	O3'-P	14.77	1.78	1.61
11	AB	329	DC	O3'-P	14.77	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3229	DC	O3'-P	14.77	1.78	1.61
11	AB	6848	DC	O3'-P	14.77	1.78	1.61
183	QC	18	DC	O3'-P	14.77	1.78	1.61
11	AB	4573	DC	O3'-P	14.77	1.78	1.61
11	AB	6444	DC	O3'-P	14.77	1.78	1.61
11	AB	6787	DC	O3'-P	14.77	1.78	1.61
85	H6	28	DC	O3'-P	14.77	1.78	1.61
106	J5	20	DC	O3'-P	14.77	1.78	1.61
178	Q5	37	DC	O3'-P	14.77	1.78	1.61
11	AB	4153	DC	O3'-P	14.76	1.78	1.61
11	AB	4174	DC	O3'-P	14.76	1.78	1.61
11	AB	6610	DC	O3'-P	14.76	1.78	1.61
201	SC	18	DC	O3'-P	14.76	1.78	1.61
11	AB	1190	DC	O3'-P	14.76	1.78	1.61
11	AB	3679	DC	O3'-P	14.76	1.78	1.61
33	C9	12	DC	O3'-P	14.76	1.78	1.61
50	E3	3	DC	O3'-P	14.76	1.78	1.61
165	OD	50	DC	O3'-P	14.76	1.78	1.61
204	T3	22	DC	O3'-P	14.76	1.78	1.61
11	AB	1037	DC	O3'-P	14.76	1.78	1.61
11	AB	2940	DC	O3'-P	14.76	1.78	1.61
11	AB	3959	DC	O3'-P	14.76	1.78	1.61
11	AB	5098	DC	O3'-P	14.76	1.78	1.61
11	AB	5202	DC	O3'-P	14.76	1.78	1.61
11	AB	6939	DC	O3'-P	14.76	1.78	1.61
97	I7	10	DC	O3'-P	14.76	1.78	1.61
143	MA	39	DC	O3'-P	14.76	1.78	1.61
203	T2	21	DC	O3'-P	14.76	1.78	1.61
220	UD	18	DC	O3'-P	14.76	1.78	1.61
11	AB	1904	DC	O3'-P	14.76	1.78	1.61
104	J2	25	DC	O3'-P	14.76	1.78	1.61
166	P2	20	DC	O3'-P	14.76	1.78	1.61
11	AB	1897	DC	O3'-P	14.76	1.78	1.61
11	AB	2012	DC	O3'-P	14.76	1.78	1.61
11	AB	2036	DC	O3'-P	14.76	1.78	1.61
11	AB	2876	DC	O3'-P	14.76	1.78	1.61
11	AB	2884	DC	O3'-P	14.76	1.78	1.61
11	AB	3722	DC	O3'-P	14.76	1.78	1.61
11	AB	5345	DC	O3'-P	14.76	1.78	1.61
38	D2	16	DC	O3'-P	14.76	1.78	1.61
70	G1	15	DC	O3'-P	14.76	1.78	1.61
102	ID	31	DC	O3'-P	14.76	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
191	RA	25	DC	O3'-P	14.76	1.78	1.61
206	T7	1	DC	O3'-P	14.76	1.78	1.61
11	AB	2297	DC	O3'-P	14.75	1.78	1.61
11	AB	4179	DC	O3'-P	14.75	1.78	1.61
11	AB	5945	DC	O3'-P	14.75	1.78	1.61
204	T3	13	DC	O3'-P	14.75	1.78	1.61
11	AB	4183	DC	O3'-P	14.75	1.78	1.61
11	AB	5278	DC	O3'-P	14.75	1.78	1.61
58	ED	8	DC	O3'-P	14.75	1.78	1.61
158	O5	26	DC	O3'-P	14.75	1.78	1.61
11	AB	1612	DC	O3'-P	14.75	1.78	1.61
11	AB	4072	DC	O3'-P	14.75	1.78	1.61
11	AB	4516	DC	O3'-P	14.75	1.78	1.61
11	AB	4919	DC	O3'-P	14.75	1.78	1.61
11	AB	6708	DC	O3'-P	14.75	1.78	1.61
12	AC	19	DC	O3'-P	14.75	1.78	1.61
21	B8	11	DC	O3'-P	14.75	1.78	1.61
24	BC	5	DC	O3'-P	14.75	1.78	1.61
156	O2	17	DC	O3'-P	14.75	1.78	1.61
206	T7	20	DC	O3'-P	14.75	1.78	1.61
11	AB	4028	DC	O3'-P	14.75	1.78	1.61
11	AB	4062	DC	O3'-P	14.75	1.78	1.61
11	AB	4488	DC	O3'-P	14.75	1.78	1.61
11	AB	4960	DC	O3'-P	14.75	1.78	1.61
20	B7	8	DC	O3'-P	14.75	1.78	1.61
79	GC	13	DC	O3'-P	14.75	1.78	1.61
110	J9	19	DC	O3'-P	14.75	1.78	1.61
199	S9	21	DC	O3'-P	14.75	1.78	1.61
221	V2	6	DC	O3'-P	14.75	1.78	1.61
11	AB	884	DC	O3'-P	14.74	1.78	1.61
11	AB	2886	DC	O3'-P	14.74	1.78	1.61
23	BA	9	DC	O3'-P	14.74	1.78	1.61
113	JD	32	DC	O3'-P	14.74	1.78	1.61
123	KC	20	DC	O3'-P	14.74	1.78	1.61
209	TA	28	DC	O3'-P	14.74	1.78	1.61
11	AB	3211	DC	O3'-P	14.74	1.78	1.61
11	AB	4836	DC	O3'-P	14.74	1.78	1.61
11	AB	5259	DC	O3'-P	14.74	1.78	1.61
11	AB	6217	DC	O3'-P	14.74	1.78	1.61
11	AB	6906	DC	O3'-P	14.74	1.78	1.61
35	CC	27	DC	O3'-P	14.74	1.78	1.61
51	E5	10	DC	O3'-P	14.74	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
106	J5	32	DC	O3'-P	14.74	1.78	1.61
110	J9	17	DC	O3'-P	14.74	1.78	1.61
11	AB	914	DC	O3'-P	14.74	1.78	1.61
11	AB	1283	DC	O3'-P	14.74	1.78	1.61
11	AB	4812	DC	O3'-P	14.74	1.78	1.61
11	AB	7011	DC	O3'-P	14.74	1.78	1.61
28	C3	7	DC	O3'-P	14.74	1.78	1.61
119	K7	28	DC	O3'-P	14.74	1.78	1.61
195	S3	6	DC	O3'-P	14.74	1.78	1.61
200	SA	7	DC	O3'-P	14.74	1.78	1.61
11	AB	524	DC	O3'-P	14.74	1.78	1.61
11	AB	4075	DC	O3'-P	14.74	1.78	1.61
11	AB	6157	DC	O3'-P	14.74	1.78	1.61
11	AB	6330	DC	O3'-P	14.74	1.78	1.61
11	AB	6996	DC	O3'-P	14.74	1.78	1.61
60	F2	23	DC	O3'-P	14.74	1.78	1.61
109	J8	43	DC	O3'-P	14.74	1.78	1.61
197	S7	5	DC	O3'-P	14.74	1.78	1.61
238	X9	2	DC	O3'-P	14.74	1.78	1.61
11	AB	149	DC	O3'-P	14.73	1.78	1.61
11	AB	479	DC	O3'-P	14.73	1.78	1.61
11	AB	6900	DC	O3'-P	14.73	1.78	1.61
47	DD	33	DC	O3'-P	14.73	1.78	1.61
198	S8	33	DC	O3'-P	14.73	1.78	1.61
209	TA	17	DC	O3'-P	14.73	1.78	1.61
216	U8	13	DC	O3'-P	14.73	1.78	1.61
11	AB	6764	DC	O3'-P	14.73	1.78	1.61
179	Q7	6	DC	O3'-P	14.73	1.78	1.61
11	AB	4041	DC	O3'-P	14.73	1.78	1.61
11	AB	350	DC	O3'-P	14.73	1.78	1.61
11	AB	3912	DC	O3'-P	14.73	1.78	1.61
11	AB	4461	DC	O3'-P	14.73	1.78	1.61
11	AB	5178	DC	O3'-P	14.73	1.78	1.61
11	AB	7168	DC	O3'-P	14.73	1.78	1.61
24	BC	10	DC	O3'-P	14.73	1.78	1.61
11	AB	3813	DC	O3'-P	14.73	1.78	1.61
51	E5	6	DC	O3'-P	14.73	1.78	1.61
159	O6	9	DC	O3'-P	14.73	1.78	1.61
179	Q7	12	DC	O3'-P	14.73	1.78	1.61
11	AB	167	DC	O3'-P	14.72	1.78	1.61
11	AB	458	DC	O3'-P	14.72	1.78	1.61
11	AB	749	DC	O3'-P	14.72	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1076	DC	O3'-P	14.72	1.78	1.61
11	AB	272	DC	O3'-P	14.72	1.78	1.61
11	AB	2372	DC	O3'-P	14.72	1.78	1.61
11	AB	4313	DC	O3'-P	14.72	1.78	1.61
55	E9	21	DC	O3'-P	14.72	1.78	1.61
86	H7	23	DC	O3'-P	14.72	1.78	1.61
11	AB	1921	DC	O3'-P	14.72	1.78	1.61
11	AB	5046	DC	O3'-P	14.72	1.78	1.61
11	AB	7156	DC	O3'-P	14.72	1.78	1.61
94	I3	28	DC	O3'-P	14.72	1.78	1.61
11	AB	496	DC	O3'-P	14.72	1.78	1.61
11	AB	5175	DC	O3'-P	14.72	1.78	1.61
11	AB	7	DC	O3'-P	14.71	1.78	1.61
25	BD	9	DC	O3'-P	14.71	1.78	1.61
88	H9	15	DC	O3'-P	14.71	1.78	1.61
136	M2	7	DC	O3'-P	14.71	1.78	1.61
158	O5	48	DC	O3'-P	14.71	1.78	1.61
11	AB	521	DC	O3'-P	14.71	1.78	1.61
110	J9	14	DC	O3'-P	14.71	1.78	1.61
14	B1	38	DC	O3'-P	14.70	1.78	1.61
179	Q7	24	DC	O3'-P	14.70	1.78	1.61
186	R3	12	DC	O3'-P	14.71	1.78	1.61
202	SD	5	DC	O3'-P	14.71	1.78	1.61
11	AB	21	DC	O3'-P	14.70	1.78	1.61
11	AB	1926	DC	O3'-P	14.70	1.78	1.61
173	PA	35	DC	O3'-P	14.70	1.78	1.61
194	S2	11	DC	O3'-P	14.70	1.78	1.61
11	AB	4644	DC	O3'-P	14.70	1.78	1.61
218	UA	10	DC	O3'-P	14.70	1.78	1.61
11	AB	100	DC	O3'-P	14.70	1.78	1.61
211	TD	9	DC	O3'-P	14.70	1.78	1.61
11	AB	2237	DC	O3'-P	14.70	1.78	1.61
103	J1	3	DC	O3'-P	14.69	1.78	1.61
11	AB	1039	DC	O3'-P	14.69	1.78	1.61
11	AB	4582	DC	O3'-P	14.69	1.78	1.61
11	AB	1460	DC	O3'-P	14.69	1.78	1.61
11	AB	4819	DC	O3'-P	14.69	1.78	1.61
11	AB	3543	DC	O3'-P	14.68	1.78	1.61
154	NC	25	DC	O3'-P	14.68	1.78	1.61
11	AB	3889	DC	O3'-P	14.68	1.78	1.61
109	J8	41	DC	O3'-P	14.68	1.78	1.61
121	K9	24	DC	O3'-P	14.68	1.78	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5324	DC	O3'-P	14.68	1.78	1.61
204	T3	43	DC	O3'-P	14.68	1.78	1.61
11	AB	5409	DC	O3'-P	14.67	1.78	1.61
153	NA	16	DC	O3'-P	14.67	1.78	1.61
11	AB	6911	DC	O3'-P	14.67	1.78	1.61
11	AB	4655	DC	O3'-P	14.67	1.78	1.61
94	I3	56	DC	O3'-P	14.67	1.78	1.61
11	AB	40	DC	O3'-P	14.66	1.78	1.61
104	J2	11	DC	O3'-P	14.66	1.78	1.61
55	E9	40	DC	O3'-P	14.65	1.78	1.61
103	J1	23	DC	O3'-P	14.65	1.78	1.61
101	IC	17	DC	O3'-P	14.65	1.78	1.61
11	AB	3237	DC	O3'-P	14.65	1.78	1.61
132	L9	13	DC	O3'-P	14.64	1.78	1.61
117	K5	24	DA	O3'-P	13.52	1.77	1.61
11	AB	7080	DA	O3'-P	13.50	1.77	1.61
233	W8	17	DA	O3'-P	13.47	1.77	1.61
11	AB	5709	DA	O3'-P	13.47	1.77	1.61
11	AB	3841	DA	O3'-P	13.46	1.77	1.61
44	D9	16	DA	O3'-P	13.45	1.77	1.61
148	N5	6	DA	O3'-P	13.45	1.77	1.61
11	AB	3575	DA	O3'-P	13.45	1.77	1.61
80	GD	11	DA	O3'-P	13.45	1.77	1.61
43	D8	34	DA	O3'-P	13.44	1.77	1.61
149	N6	20	DA	O3'-P	13.44	1.77	1.61
11	AB	4138	DA	O3'-P	13.44	1.77	1.61
99	I9	28	DA	O3'-P	13.44	1.77	1.61
11	AB	4992	DA	O3'-P	13.43	1.77	1.61
21	B8	25	DA	O3'-P	13.43	1.77	1.61
39	D3	31	DA	O3'-P	13.43	1.77	1.61
113	JD	9	DA	O3'-P	13.43	1.77	1.61
150	N7	21	DA	O3'-P	13.43	1.77	1.61
11	AB	3719	DA	O3'-P	13.43	1.77	1.61
228	VC	38	DA	O3'-P	13.43	1.77	1.61
125	L1	32	DA	O3'-P	13.43	1.77	1.61
11	AB	1530	DA	O3'-P	13.42	1.77	1.61
27	C2	19	DA	O3'-P	13.42	1.77	1.61
160	O7	3	DA	O3'-P	13.42	1.77	1.61
173	PA	6	DA	O3'-P	13.42	1.77	1.61
219	UC	26	DA	O3'-P	13.42	1.77	1.61
16	B3	11	DA	O3'-P	13.42	1.77	1.61
91	HD	21	DA	O3'-P	13.42	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
106	J5	3	DA	O3'-P	13.42	1.77	1.61
118	K6	12	DA	O3'-P	13.42	1.77	1.61
175	PD	4	DA	O3'-P	13.42	1.77	1.61
228	VC	34	DA	O3'-P	13.42	1.77	1.61
11	AB	4684	DA	O3'-P	13.41	1.77	1.61
13	AD	10	DA	O3'-P	13.41	1.77	1.61
18	B5	32	DA	O3'-P	13.41	1.77	1.61
20	B7	20	DA	O3'-P	13.41	1.77	1.61
89	HA	23	DA	O3'-P	13.41	1.77	1.61
143	MA	42	DA	O3'-P	13.41	1.77	1.61
182	QA	19	DA	O3'-P	13.41	1.77	1.61
185	R2	3	DA	O3'-P	13.41	1.77	1.61
190	R9	22	DA	O3'-P	13.41	1.77	1.61
4	A4	7	DA	O3'-P	13.41	1.77	1.61
11	AB	2359	DA	O3'-P	13.41	1.77	1.61
36	CD	4	DA	O3'-P	13.41	1.77	1.61
11	AB	613	DA	O3'-P	13.41	1.77	1.61
11	AB	2587	DA	O3'-P	13.41	1.77	1.61
94	I3	1	DA	O3'-P	13.41	1.77	1.61
167	P3	36	DA	O3'-P	13.41	1.77	1.61
17	B4	15	DA	O3'-P	13.40	1.77	1.61
39	D3	27	DA	O3'-P	13.40	1.77	1.61
45	DA	8	DA	O3'-P	13.40	1.77	1.61
228	VC	23	DA	O3'-P	13.40	1.77	1.61
11	AB	421	DA	O3'-P	13.40	1.77	1.61
11	AB	3997	DA	O3'-P	13.40	1.77	1.61
61	F3	22	DA	O3'-P	13.40	1.77	1.61
106	J5	5	DA	O3'-P	13.40	1.77	1.61
175	PD	16	DA	O3'-P	13.40	1.77	1.61
110	J9	9	DA	O3'-P	13.40	1.77	1.61
206	T7	41	DA	O3'-P	13.40	1.77	1.61
11	AB	7234	DA	O3'-P	13.40	1.77	1.61
13	AD	25	DA	O3'-P	13.40	1.77	1.61
125	L1	44	DA	O3'-P	13.40	1.77	1.61
150	N7	4	DA	O3'-P	13.40	1.77	1.61
168	P5	14	DA	O3'-P	13.40	1.77	1.61
209	TA	8	DA	O3'-P	13.40	1.77	1.61
180	Q8	25	DA	O3'-P	13.39	1.77	1.61
228	VC	28	DA	O3'-P	13.39	1.77	1.61
11	AB	5082	DA	O3'-P	13.39	1.77	1.61
130	L7	9	DA	O3'-P	13.39	1.77	1.61
238	X9	19	DA	O3'-P	13.39	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
235	WD	11	DA	O3'-P	13.39	1.77	1.61
11	AB	2667	DA	O3'-P	13.39	1.77	1.61
78	GA	18	DA	O3'-P	13.39	1.77	1.61
151	N8	1	DA	O3'-P	13.39	1.77	1.61
11	AB	674	DA	O3'-P	13.39	1.77	1.61
54	E8	36	DA	O3'-P	13.39	1.77	1.61
55	E9	12	DA	O3'-P	13.38	1.77	1.61
83	H3	25	DA	O3'-P	13.39	1.77	1.61
83	H3	41	DA	O3'-P	13.39	1.77	1.61
93	I2	14	DA	O3'-P	13.38	1.77	1.61
160	O7	35	DA	O3'-P	13.39	1.77	1.61
221	V2	14	DA	O3'-P	13.39	1.77	1.61
5	A5	22	DA	O3'-P	13.38	1.77	1.61
11	AB	436	DA	O3'-P	13.38	1.77	1.61
11	AB	937	DA	O3'-P	13.38	1.77	1.61
16	B3	5	DA	O3'-P	13.38	1.77	1.61
11	AB	621	DA	O3'-P	13.38	1.77	1.61
11	AB	941	DA	O3'-P	13.38	1.77	1.61
76	G8	22	DA	O3'-P	13.38	1.77	1.61
11	AB	2080	DA	O3'-P	13.38	1.77	1.61
11	AB	6179	DA	O3'-P	13.38	1.77	1.61
29	C5	15	DA	O3'-P	13.38	1.77	1.61
51	E5	15	DA	O3'-P	13.38	1.77	1.61
63	F6	8	DA	O3'-P	13.38	1.77	1.61
98	I8	24	DA	O3'-P	13.38	1.77	1.61
11	AB	583	DA	O3'-P	13.38	1.77	1.61
199	S9	2	DA	O3'-P	13.38	1.77	1.61
11	AB	1834	DA	O3'-P	13.38	1.77	1.61
11	AB	3333	DA	O3'-P	13.38	1.77	1.61
11	AB	4756	DA	O3'-P	13.38	1.77	1.61
11	AB	4238	DA	O3'-P	13.38	1.77	1.61
11	AB	4946	DA	O3'-P	13.38	1.77	1.61
11	AB	5693	DA	O3'-P	13.38	1.77	1.61
163	OA	1	DA	O3'-P	13.38	1.77	1.61
32	C8	41	DA	O3'-P	13.38	1.77	1.61
42	D7	3	DA	O3'-P	13.38	1.77	1.61
45	DA	21	DA	O3'-P	13.38	1.77	1.61
130	L7	37	DA	O3'-P	13.38	1.77	1.61
215	U7	10	DA	O3'-P	13.38	1.77	1.61
43	D8	32	DA	O3'-P	13.38	1.77	1.61
68	FC	16	DA	O3'-P	13.37	1.77	1.61
117	K5	35	DA	O3'-P	13.38	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	179	DA	O3'-P	13.37	1.77	1.61
11	AB	1847	DA	O3'-P	13.37	1.77	1.61
11	AB	1935	DA	O3'-P	13.37	1.77	1.61
11	AB	3306	DA	O3'-P	13.37	1.77	1.61
45	DA	12	DA	O3'-P	13.37	1.77	1.61
93	I2	20	DA	O3'-P	13.37	1.77	1.61
156	O2	27	DA	O3'-P	13.37	1.77	1.61
195	S3	23	DA	O3'-P	13.37	1.77	1.61
227	VA	6	DA	O3'-P	13.37	1.77	1.61
11	AB	5986	DA	O3'-P	13.37	1.77	1.61
11	AB	6962	DA	O3'-P	13.37	1.77	1.61
19	B6	13	DA	O3'-P	13.37	1.77	1.61
83	H3	23	DA	O3'-P	13.37	1.77	1.61
89	HA	10	DA	O3'-P	13.37	1.77	1.61
58	ED	28	DA	O3'-P	13.37	1.77	1.61
11	AB	1828	DA	O3'-P	13.37	1.77	1.61
11	AB	1948	DA	O3'-P	13.37	1.77	1.61
11	AB	2117	DA	O3'-P	13.37	1.77	1.61
11	AB	2482	DA	O3'-P	13.37	1.77	1.61
11	AB	4082	DA	O3'-P	13.37	1.77	1.61
59	F1	3	DA	O3'-P	13.37	1.77	1.61
134	LC	15	DA	O3'-P	13.37	1.77	1.61
146	N2	6	DA	O3'-P	13.37	1.77	1.61
169	P6	8	DA	O3'-P	13.37	1.77	1.61
11	AB	2593	DA	O3'-P	13.37	1.77	1.61
11	AB	4354	DA	O3'-P	13.37	1.77	1.61
11	AB	6000	DA	O3'-P	13.37	1.77	1.61
84	H5	32	DA	O3'-P	13.37	1.77	1.61
106	J5	26	DA	O3'-P	13.37	1.77	1.61
115	K2	8	DA	O3'-P	13.37	1.77	1.61
2	A2	6	DA	O3'-P	13.37	1.77	1.61
11	AB	589	DA	O3'-P	13.37	1.77	1.61
11	AB	2695	DA	O3'-P	13.37	1.77	1.61
17	B4	17	DA	O3'-P	13.37	1.77	1.61
225	V8	10	DA	O3'-P	13.37	1.77	1.61
138	M5	27	DA	O3'-P	13.36	1.77	1.61
166	P2	8	DA	O3'-P	13.37	1.77	1.61
88	H9	26	DA	O3'-P	13.36	1.77	1.61
11	AB	3455	DA	O3'-P	13.36	1.77	1.61
11	AB	6086	DA	O3'-P	13.36	1.77	1.61
36	CD	2	DA	O3'-P	13.36	1.77	1.61
11	AB	2855	DA	O3'-P	13.36	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4109	DA	O3'-P	13.36	1.77	1.61
11	AB	4853	DA	O3'-P	13.36	1.77	1.61
11	AB	6594	DA	O3'-P	13.36	1.77	1.61
89	HA	19	DA	O3'-P	13.36	1.77	1.61
147	N3	11	DA	O3'-P	13.36	1.77	1.61
228	VC	11	DA	O3'-P	13.36	1.77	1.61
138	M5	5	DA	O3'-P	13.36	1.77	1.61
146	N2	21	DA	O3'-P	13.36	1.77	1.61
1	A1	22	DA	O3'-P	13.36	1.77	1.61
11	AB	725	DA	O3'-P	13.36	1.77	1.61
11	AB	1518	DA	O3'-P	13.36	1.77	1.61
11	AB	5237	DA	O3'-P	13.36	1.77	1.61
11	AB	6305	DA	O3'-P	13.36	1.77	1.61
11	AB	7194	DA	O3'-P	13.36	1.77	1.61
39	D3	25	DA	O3'-P	13.36	1.77	1.61
46	DC	19	DA	O3'-P	13.36	1.77	1.61
95	I5	13	DA	O3'-P	13.36	1.77	1.61
152	N9	30	DA	O3'-P	13.36	1.77	1.61
154	NC	9	DA	O3'-P	13.36	1.77	1.61
170	P7	11	DA	O3'-P	13.36	1.77	1.61
173	PA	2	DA	O3'-P	13.36	1.77	1.61
203	T2	12	DA	O3'-P	13.36	1.77	1.61
11	AB	5000	DA	O3'-P	13.35	1.77	1.61
11	AB	5883	DA	O3'-P	13.35	1.77	1.61
11	AB	6238	DA	O3'-P	13.35	1.77	1.61
11	AB	6576	DA	O3'-P	13.35	1.77	1.61
77	G9	9	DA	O3'-P	13.35	1.77	1.61
11	AB	2485	DA	O3'-P	13.35	1.77	1.61
11	AB	4927	DA	O3'-P	13.35	1.77	1.61
11	AB	6089	DA	O3'-P	13.35	1.77	1.61
11	AB	6242	DA	O3'-P	13.35	1.77	1.61
11	AB	6339	DA	O3'-P	13.35	1.77	1.61
11	AB	6510	DA	O3'-P	13.35	1.77	1.61
68	FC	10	DA	O3'-P	13.35	1.77	1.61
124	KD	15	DA	O3'-P	13.35	1.77	1.61
194	S2	3	DA	O3'-P	13.35	1.77	1.61
220	UD	8	DA	O3'-P	13.35	1.77	1.61
11	AB	7213	DA	O3'-P	13.35	1.77	1.61
108	J7	33	DA	O3'-P	13.35	1.77	1.61
11	AB	7064	DA	O3'-P	13.35	1.77	1.61
11	AB	406	DA	O3'-P	13.35	1.77	1.61
11	AB	1534	DA	O3'-P	13.35	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6820	DA	O3'-P	13.35	1.77	1.61
11	AB	6869	DA	O3'-P	13.35	1.77	1.61
13	AD	13	DA	O3'-P	13.35	1.77	1.61
131	L8	16	DA	O3'-P	13.35	1.77	1.61
143	MA	19	DA	O3'-P	13.35	1.77	1.61
11	AB	2602	DA	O3'-P	13.35	1.77	1.61
37	D1	30	DA	O3'-P	13.35	1.77	1.61
41	D6	32	DA	O3'-P	13.35	1.77	1.61
137	M3	33	DA	O3'-P	13.35	1.77	1.61
150	N7	2	DA	O3'-P	13.35	1.77	1.61
203	T2	9	DA	O3'-P	13.35	1.77	1.61
223	V5	20	DA	O3'-P	13.35	1.77	1.61
11	AB	633	DA	O3'-P	13.35	1.77	1.61
11	AB	3122	DA	O3'-P	13.35	1.77	1.61
11	AB	3944	DA	O3'-P	13.35	1.77	1.61
11	AB	4664	DA	O3'-P	13.35	1.77	1.61
160	O7	41	DA	O3'-P	13.35	1.77	1.61
188	R7	24	DA	O3'-P	13.35	1.77	1.61
155	ND	19	DA	O3'-P	13.35	1.77	1.61
199	S9	4	DA	O3'-P	13.35	1.77	1.61
2	A2	2	DA	O3'-P	13.34	1.77	1.61
120	K8	3	DA	O3'-P	13.34	1.77	1.61
156	O2	41	DA	O3'-P	13.34	1.77	1.61
11	AB	4479	DA	O3'-P	13.34	1.77	1.61
11	AB	4522	DA	O3'-P	13.34	1.77	1.61
11	AB	5300	DA	O3'-P	13.34	1.77	1.61
11	AB	6799	DA	O3'-P	13.34	1.77	1.61
49	E2	29	DA	O3'-P	13.34	1.77	1.61
95	I5	31	DA	O3'-P	13.34	1.77	1.61
86	H7	12	DA	O3'-P	13.34	1.77	1.61
111	JA	5	DA	O3'-P	13.34	1.77	1.61
152	N9	44	DA	O3'-P	13.34	1.77	1.61
210	TC	29	DA	O3'-P	13.34	1.77	1.61
11	AB	222	DT	O3'-P	13.34	1.77	1.61
35	CC	6	DA	O3'-P	13.34	1.77	1.61
154	NC	7	DA	O3'-P	13.34	1.77	1.61
11	AB	5762	DA	O3'-P	13.34	1.77	1.61
11	AB	6098	DA	O3'-P	13.34	1.77	1.61
30	C6	42	DA	O3'-P	13.34	1.77	1.61
81	H1	11	DA	O3'-P	13.34	1.77	1.61
122	KA	32	DA	O3'-P	13.34	1.77	1.61
4	A4	9	DA	O3'-P	13.34	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2686	DA	O3'-P	13.34	1.77	1.61
11	AB	4225	DA	O3'-P	13.34	1.77	1.61
11	AB	3836	DA	O3'-P	13.34	1.77	1.61
13	AD	21	DA	O3'-P	13.34	1.77	1.61
13	AD	27	DA	O3'-P	13.34	1.77	1.61
11	AB	6249	DA	O3'-P	13.33	1.77	1.61
48	E1	10	DA	O3'-P	13.33	1.77	1.61
49	E2	27	DA	O3'-P	13.33	1.77	1.61
11	AB	3899	DA	O3'-P	13.33	1.77	1.61
11	AB	4292	DA	O3'-P	13.33	1.77	1.61
60	F2	26	DA	O3'-P	13.33	1.77	1.61
147	N3	3	DA	O3'-P	13.33	1.77	1.61
11	AB	4130	DA	O3'-P	13.33	1.77	1.61
11	AB	6815	DA	O3'-P	13.33	1.77	1.61
11	AB	2183	DA	O3'-P	13.33	1.77	1.61
28	C3	17	DA	O3'-P	13.33	1.77	1.61
41	D6	2	DA	O3'-P	13.33	1.77	1.61
30	C6	24	DA	O3'-P	13.33	1.77	1.61
97	I7	23	DA	O3'-P	13.33	1.77	1.61
109	J8	1	DA	O3'-P	13.33	1.77	1.61
147	N3	1	DA	O3'-P	13.33	1.77	1.61
149	N6	48	DA	O3'-P	13.33	1.77	1.61
212	U2	27	DA	O3'-P	13.33	1.77	1.61
11	AB	227	DA	O3'-P	13.33	1.77	1.61
11	AB	2338	DA	O3'-P	13.33	1.77	1.61
11	AB	2515	DA	O3'-P	13.33	1.77	1.61
11	AB	2606	DA	O3'-P	13.33	1.77	1.61
11	AB	3313	DA	O3'-P	13.33	1.77	1.61
11	AB	6651	DA	O3'-P	13.33	1.77	1.61
11	AB	6751	DA	O3'-P	13.33	1.77	1.61
87	H8	14	DA	O3'-P	13.33	1.77	1.61
94	I3	36	DA	O3'-P	13.33	1.77	1.61
114	K1	25	DA	O3'-P	13.33	1.77	1.61
114	K1	27	DA	O3'-P	13.33	1.77	1.61
139	M6	12	DA	O3'-P	13.33	1.77	1.61
198	S8	28	DA	O3'-P	13.33	1.77	1.61
67	FA	26	DA	O3'-P	13.32	1.77	1.61
158	O5	31	DA	O3'-P	13.32	1.77	1.61
168	P5	8	DA	O3'-P	13.32	1.77	1.61
204	T3	30	DA	O3'-P	13.32	1.77	1.61
11	AB	4419	DA	O3'-P	13.32	1.77	1.61
57	EC	22	DA	O3'-P	13.32	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
105	J3	32	DA	O3'-P	13.32	1.77	1.61
11	AB	6405	DA	O3'-P	13.32	1.77	1.61
92	I1	21	DA	O3'-P	13.32	1.77	1.61
214	U5	37	DA	O3'-P	13.32	1.77	1.61
230	W3	40	DA	O3'-P	13.32	1.77	1.61
52	E6	3	DA	O3'-P	13.32	1.77	1.61
65	F8	17	DA	O3'-P	13.32	1.77	1.61
137	M3	12	DA	O3'-P	13.32	1.77	1.61
195	S3	25	DA	O3'-P	13.32	1.77	1.61
213	U3	18	DA	O3'-P	13.32	1.77	1.61
216	U8	4	DA	O3'-P	13.32	1.77	1.61
231	W5	17	DA	O3'-P	13.32	1.77	1.61
11	AB	219	DA	O3'-P	13.31	1.77	1.61
159	O6	4	DA	O3'-P	13.31	1.77	1.61
5	A5	18	DA	O3'-P	13.31	1.77	1.61
7	A7	7	DA	O3'-P	13.31	1.77	1.61
11	AB	580	DA	O3'-P	13.31	1.77	1.61
11	AB	1818	DA	O3'-P	13.31	1.77	1.61
11	AB	3471	DA	O3'-P	13.31	1.77	1.61
11	AB	6733	DA	O3'-P	13.31	1.77	1.61
11	AB	7037	DA	O3'-P	13.31	1.77	1.61
11	AB	7240	DA	O3'-P	13.31	1.77	1.61
123	KC	10	DA	O3'-P	13.31	1.77	1.61
196	S5	3	DA	O3'-P	13.31	1.77	1.61
11	AB	451	DA	O3'-P	13.31	1.77	1.61
11	AB	5067	DA	O3'-P	13.31	1.77	1.61
11	AB	6671	DA	O3'-P	13.31	1.77	1.61
11	AB	6727	DA	O3'-P	13.31	1.77	1.61
207	T8	27	DA	O3'-P	13.31	1.77	1.61
11	AB	5717	DA	O3'-P	13.31	1.77	1.61
47	DD	24	DA	O3'-P	13.31	1.77	1.61
165	OD	10	DA	O3'-P	13.31	1.77	1.61
5	A5	37	DA	O3'-P	13.30	1.77	1.61
11	AB	5520	DA	O3'-P	13.30	1.77	1.61
69	FD	25	DA	O3'-P	13.31	1.77	1.61
154	NC	5	DA	O3'-P	13.30	1.77	1.61
160	O7	46	DA	O3'-P	13.30	1.77	1.61
161	O8	13	DA	O3'-P	13.30	1.77	1.61
174	PC	25	DA	O3'-P	13.31	1.77	1.61
185	R2	18	DA	O3'-P	13.31	1.77	1.61
191	RA	8	DA	O3'-P	13.30	1.77	1.61
49	E2	3	DA	O3'-P	13.30	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1701	DA	O3'-P	13.30	1.77	1.61
11	AB	3324	DA	O3'-P	13.30	1.77	1.61
11	AB	5859	DA	O3'-P	13.30	1.77	1.61
206	T7	53	DA	O3'-P	13.30	1.77	1.61
11	AB	358	DA	O3'-P	13.30	1.77	1.61
11	AB	2032	DA	O3'-P	13.30	1.77	1.61
11	AB	2614	DA	O3'-P	13.30	1.77	1.61
11	AB	4688	DA	O3'-P	13.30	1.77	1.61
11	AB	6877	DA	O3'-P	13.30	1.77	1.61
99	I9	9	DA	O3'-P	13.30	1.77	1.61
125	L1	52	DA	O3'-P	13.30	1.77	1.61
223	V5	36	DA	O3'-P	13.30	1.77	1.61
11	AB	4453	DA	O3'-P	13.30	1.77	1.61
226	V9	23	DA	O3'-P	13.30	1.77	1.61
10	AA	25	DA	O3'-P	13.29	1.77	1.61
11	AB	815	DA	O3'-P	13.29	1.77	1.61
11	AB	1006	DA	O3'-P	13.29	1.77	1.61
11	AB	1807	DA	O3'-P	13.29	1.77	1.61
71	G2	9	DA	O3'-P	13.29	1.77	1.61
111	JA	3	DA	O3'-P	13.30	1.77	1.61
138	M5	22	DA	O3'-P	13.29	1.77	1.61
11	AB	3561	DA	O3'-P	13.29	1.77	1.61
11	AB	4831	DA	O3'-P	13.29	1.77	1.61
95	I5	29	DA	O3'-P	13.29	1.77	1.61
11	AB	4531	DA	O3'-P	13.29	1.77	1.61
11	AB	6125	DA	O3'-P	13.29	1.77	1.61
142	M9	4	DA	O3'-P	13.29	1.77	1.61
146	N2	2	DA	O3'-P	13.29	1.77	1.61
157	O3	9	DA	O3'-P	13.29	1.77	1.61
214	U5	16	DA	O3'-P	13.29	1.77	1.61
11	AB	242	DA	O3'-P	13.28	1.77	1.61
106	J5	13	DA	O3'-P	13.28	1.77	1.61
39	D3	19	DA	O3'-P	13.28	1.77	1.61
131	L8	10	DA	O3'-P	13.28	1.77	1.61
143	MA	29	DA	O3'-P	13.28	1.77	1.61
225	V8	12	DA	O3'-P	13.28	1.77	1.61
234	W9	15	DA	O3'-P	13.28	1.77	1.61
11	AB	637	DA	O3'-P	13.28	1.77	1.61
11	AB	6872	DT	O3'-P	13.27	1.77	1.61
24	BC	38	DA	O3'-P	13.27	1.77	1.61
68	FC	13	DA	O3'-P	13.27	1.77	1.61
78	GA	7	DA	O3'-P	13.27	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6122	DT	O3'-P	13.27	1.77	1.61
11	AB	1796	DA	O3'-P	13.27	1.77	1.61
21	B8	14	DA	O3'-P	13.27	1.77	1.61
117	K5	2	DA	O3'-P	13.27	1.77	1.61
198	S8	23	DA	O3'-P	13.27	1.77	1.61
29	C5	39	DA	O3'-P	13.27	1.77	1.61
143	MA	8	DT	O3'-P	13.27	1.77	1.61
11	AB	1015	DT	O3'-P	13.26	1.77	1.61
206	T7	33	DA	O3'-P	13.26	1.77	1.61
11	AB	6716	DT	O3'-P	13.25	1.77	1.61
11	AB	6812	DT	O3'-P	13.25	1.77	1.61
11	AB	125	DA	O3'-P	13.25	1.77	1.61
11	AB	2850	DT	O3'-P	13.25	1.77	1.61
11	AB	4660	DA	O3'-P	13.25	1.77	1.61
74	G6	6	DA	O3'-P	13.25	1.77	1.61
181	Q9	1	DA	O3'-P	13.25	1.77	1.61
188	R7	1	DA	O3'-P	13.25	1.77	1.61
207	T8	13	DA	O3'-P	13.25	1.77	1.61
11	AB	1558	DT	O3'-P	13.24	1.77	1.61
11	AB	4008	DT	O3'-P	13.24	1.77	1.61
11	AB	4427	DT	O3'-P	13.24	1.77	1.61
11	AB	6029	DA	O3'-P	13.24	1.77	1.61
119	K7	31	DA	O3'-P	13.24	1.77	1.61
11	AB	790	DA	O3'-P	13.24	1.77	1.61
11	AB	5041	DA	O3'-P	13.24	1.77	1.61
11	AB	4863	DT	O3'-P	13.24	1.77	1.61
34	CA	12	DA	O3'-P	13.24	1.77	1.61
66	F9	18	DT	O3'-P	13.24	1.77	1.61
11	AB	1136	DT	O3'-P	13.23	1.77	1.61
11	AB	5586	DT	O3'-P	13.23	1.77	1.61
11	AB	1908	DA	O3'-P	13.23	1.77	1.61
55	E9	42	DA	O3'-P	13.23	1.77	1.61
78	GA	11	DT	O3'-P	13.23	1.77	1.61
172	P9	18	DT	O3'-P	13.23	1.77	1.61
11	AB	1316	DT	O3'-P	13.23	1.77	1.61
11	AB	1647	DA	O3'-P	13.23	1.77	1.61
11	AB	6303	DT	O3'-P	13.23	1.77	1.61
11	AB	3042	DA	O3'-P	13.23	1.77	1.61
11	AB	6664	DT	O3'-P	13.23	1.77	1.61
57	EC	13	DT	O3'-P	13.23	1.77	1.61
69	FD	30	DA	O3'-P	13.22	1.77	1.61
86	H7	19	DA	O3'-P	13.22	1.77	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2143	DA	O3'-P	13.22	1.77	1.61
14	B1	6	DA	O3'-P	13.22	1.77	1.61
135	LD	5	DT	O3'-P	13.22	1.77	1.61
11	AB	3288	DT	O3'-P	13.22	1.77	1.61
11	AB	4024	DA	O3'-P	13.22	1.77	1.61
95	I5	10	DA	O3'-P	13.22	1.77	1.61
8	A8	6	DA	O3'-P	13.21	1.77	1.61
11	AB	4056	DA	O3'-P	13.22	1.77	1.61
44	D9	25	DA	O3'-P	13.21	1.77	1.61
53	E7	19	DA	O3'-P	13.21	1.77	1.61
189	R8	39	DA	O3'-P	13.21	1.77	1.61
11	AB	4513	DA	O3'-P	13.21	1.77	1.61
153	NA	12	DA	O3'-P	13.21	1.77	1.61
11	AB	547	DA	O3'-P	13.21	1.77	1.61
11	AB	2973	DT	O3'-P	13.21	1.77	1.61
199	S9	19	DA	O3'-P	13.21	1.77	1.61
49	E2	33	DA	O3'-P	13.21	1.77	1.61
11	AB	1901	DA	O3'-P	13.21	1.76	1.61
11	AB	3129	DT	O3'-P	13.21	1.76	1.61
151	N8	18	DT	O3'-P	13.21	1.76	1.61
11	AB	1314	DT	O3'-P	13.20	1.76	1.61
11	AB	3380	DA	O3'-P	13.21	1.76	1.61
64	F7	23	DA	O3'-P	13.21	1.76	1.61
11	AB	4534	DT	O3'-P	13.20	1.76	1.61
85	H6	6	DA	O3'-P	13.21	1.76	1.61
234	W9	13	DA	O3'-P	13.21	1.76	1.61
11	AB	734	DT	O3'-P	13.20	1.76	1.61
11	AB	3162	DT	O3'-P	13.20	1.76	1.61
11	AB	4507	DA	O3'-P	13.20	1.76	1.61
84	H5	39	DA	O3'-P	13.20	1.76	1.61
11	AB	956	DT	O3'-P	13.20	1.76	1.61
11	AB	6399	DT	O3'-P	13.20	1.76	1.61
90	HC	24	DA	O3'-P	13.20	1.76	1.61
85	H6	4	DA	O3'-P	13.20	1.76	1.61
121	K9	8	DA	O3'-P	13.20	1.76	1.61
180	Q8	23	DT	O3'-P	13.20	1.76	1.61
196	S5	11	DA	O3'-P	13.20	1.76	1.61
231	W5	12	DT	O3'-P	13.20	1.76	1.61
11	AB	3021	DT	O3'-P	13.20	1.76	1.61
114	K1	9	DT	O3'-P	13.20	1.76	1.61
152	N9	40	DT	O3'-P	13.20	1.76	1.61
24	BC	7	DA	O3'-P	13.20	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
229	VD	6	DA	O3'-P	13.20	1.76	1.61
211	TD	20	DA	O3'-P	13.19	1.76	1.61
11	AB	475	DA	O3'-P	13.19	1.76	1.61
11	AB	1130	DT	O3'-P	13.19	1.76	1.61
11	AB	2030	DT	O3'-P	13.19	1.76	1.61
11	AB	2167	DA	O3'-P	13.19	1.76	1.61
11	AB	2678	DT	O3'-P	13.19	1.76	1.61
11	AB	3754	DA	O3'-P	13.19	1.76	1.61
152	N9	42	DT	O3'-P	13.19	1.76	1.61
11	AB	335	DA	O3'-P	13.19	1.76	1.61
11	AB	1310	DT	O3'-P	13.19	1.76	1.61
11	AB	4047	DA	O3'-P	13.19	1.76	1.61
11	AB	1417	DA	O3'-P	13.19	1.76	1.61
11	AB	4537	DT	O3'-P	13.19	1.76	1.61
11	AB	4662	DT	O3'-P	13.19	1.76	1.61
11	AB	6056	DA	O3'-P	13.19	1.76	1.61
29	C5	31	DA	O3'-P	13.19	1.76	1.61
107	J6	39	DA	O3'-P	13.19	1.76	1.61
122	KA	10	DA	O3'-P	13.19	1.76	1.61
136	M2	15	DA	O3'-P	13.19	1.76	1.61
155	ND	2	DA	O3'-P	13.19	1.76	1.61
182	QA	8	DA	O3'-P	13.19	1.76	1.61
11	AB	988	DA	O3'-P	13.19	1.76	1.61
11	AB	2121	DT	O3'-P	13.19	1.76	1.61
11	AB	3690	DT	O3'-P	13.19	1.76	1.61
24	BC	21	DA	O3'-P	13.19	1.76	1.61
117	K5	42	DA	O3'-P	13.19	1.76	1.61
126	L2	59	DA	O3'-P	13.19	1.76	1.61
156	O2	44	DA	O3'-P	13.19	1.76	1.61
183	QC	20	DA	O3'-P	13.19	1.76	1.61
183	QC	9	DT	O3'-P	13.19	1.76	1.61
7	A7	13	DT	O3'-P	13.18	1.76	1.61
11	AB	3696	DT	O3'-P	13.18	1.76	1.61
11	AB	6567	DT	O3'-P	13.18	1.76	1.61
20	B7	12	DA	O3'-P	13.18	1.76	1.61
94	I3	44	DA	O3'-P	13.18	1.76	1.61
140	M7	15	DA	O3'-P	13.18	1.76	1.61
185	R2	10	DA	O3'-P	13.18	1.76	1.61
209	TA	32	DA	O3'-P	13.18	1.76	1.61
11	AB	404	DT	O3'-P	13.18	1.76	1.61
11	AB	425	DT	O3'-P	13.18	1.76	1.61
11	AB	1823	DT	O3'-P	13.18	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
214	U5	20	DT	O3'-P	13.18	1.76	1.61
11	AB	759	DA	O3'-P	13.18	1.76	1.61
111	JA	11	DT	O3'-P	13.18	1.76	1.61
11	AB	1187	DA	O3'-P	13.18	1.76	1.61
15	B2	19	DA	O3'-P	13.18	1.76	1.61
32	C8	3	DA	O3'-P	13.18	1.76	1.61
126	L2	15	DT	O3'-P	13.18	1.76	1.61
155	ND	9	DA	O3'-P	13.18	1.76	1.61
194	S2	24	DA	O3'-P	13.18	1.76	1.61
11	AB	2725	DA	O3'-P	13.18	1.76	1.61
11	AB	3486	DT	O3'-P	13.18	1.76	1.61
11	AB	5247	DA	O3'-P	13.18	1.76	1.61
11	AB	6932	DA	O3'-P	13.18	1.76	1.61
80	GD	15	DA	O3'-P	13.18	1.76	1.61
11	AB	1025	DT	O3'-P	13.18	1.76	1.61
11	AB	1049	DT	O3'-P	13.18	1.76	1.61
11	AB	2336	DT	O3'-P	13.18	1.76	1.61
11	AB	2817	DT	O3'-P	13.18	1.76	1.61
11	AB	3846	DT	O3'-P	13.18	1.76	1.61
11	AB	4700	DA	O3'-P	13.18	1.76	1.61
11	AB	4783	DA	O3'-P	13.18	1.76	1.61
11	AB	7068	DT	O3'-P	13.18	1.76	1.61
22	B9	49	DA	O3'-P	13.18	1.76	1.61
67	FA	30	DT	O3'-P	13.18	1.76	1.61
105	J3	8	DT	O3'-P	13.18	1.76	1.61
11	AB	1881	DA	O3'-P	13.17	1.76	1.61
11	AB	2192	DT	O3'-P	13.17	1.76	1.61
11	AB	2909	DA	O3'-P	13.17	1.76	1.61
11	AB	3441	DT	O3'-P	13.17	1.76	1.61
11	AB	3865	DA	O3'-P	13.17	1.76	1.61
72	G3	3	DT	O3'-P	13.17	1.76	1.61
72	G3	27	DT	O3'-P	13.17	1.76	1.61
117	K5	38	DT	O3'-P	13.17	1.76	1.61
11	AB	3627	DA	O3'-P	13.17	1.76	1.61
11	AB	3648	DT	O3'-P	13.17	1.76	1.61
11	AB	3992	DT	O3'-P	13.17	1.76	1.61
11	AB	4549	DT	O3'-P	13.17	1.76	1.61
11	AB	5233	DT	O3'-P	13.17	1.76	1.61
11	AB	5387	DT	O3'-P	13.17	1.76	1.61
36	CD	18	DT	O3'-P	13.17	1.76	1.61
57	EC	20	DT	O3'-P	13.17	1.76	1.61
61	F3	12	DA	O3'-P	13.17	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
100	IA	5	DA	O3'-P	13.17	1.76	1.61
109	J8	32	DT	O3'-P	13.17	1.76	1.61
129	L6	22	DT	O3'-P	13.17	1.76	1.61
145	MD	54	DA	O3'-P	13.17	1.76	1.61
192	RC	9	DA	O3'-P	13.17	1.76	1.61
225	V8	23	DA	O3'-P	13.17	1.76	1.61
11	AB	665	DT	O3'-P	13.17	1.76	1.61
11	AB	2021	DT	O3'-P	13.17	1.76	1.61
11	AB	2076	DA	O3'-P	13.17	1.76	1.61
11	AB	3468	DT	O3'-P	13.17	1.76	1.61
11	AB	4070	DA	O3'-P	13.17	1.76	1.61
11	AB	6446	DA	O3'-P	13.17	1.76	1.61
23	BA	29	DT	O3'-P	13.17	1.76	1.61
38	D2	10	DA	O3'-P	13.17	1.76	1.61
46	DC	15	DT	O3'-P	13.17	1.76	1.61
161	O8	35	DA	O3'-P	13.17	1.76	1.61
11	AB	4126	DT	O3'-P	13.17	1.76	1.61
11	AB	5303	DT	O3'-P	13.17	1.76	1.61
11	AB	5547	DA	O3'-P	13.17	1.76	1.61
11	AB	6071	DT	O3'-P	13.17	1.76	1.61
14	B1	26	DA	O3'-P	13.17	1.76	1.61
74	G6	8	DA	O3'-P	13.17	1.76	1.61
234	W9	6	DA	O3'-P	13.17	1.76	1.61
23	BA	35	DT	O3'-P	13.17	1.76	1.61
10	AA	22	DA	O3'-P	13.17	1.76	1.61
11	AB	383	DT	O3'-P	13.17	1.76	1.61
11	AB	1961	DT	O3'-P	13.17	1.76	1.61
11	AB	4113	DT	O3'-P	13.17	1.76	1.61
11	AB	5781	DT	O3'-P	13.17	1.76	1.61
11	AB	7049	DT	O3'-P	13.17	1.76	1.61
24	BC	26	DA	O3'-P	13.17	1.76	1.61
62	F5	2	DA	O3'-P	13.17	1.76	1.61
77	G9	7	DT	O3'-P	13.17	1.76	1.61
93	I2	44	DT	O3'-P	13.17	1.76	1.61
102	ID	7	DT	O3'-P	13.17	1.76	1.61
11	AB	2732	DA	O3'-P	13.17	1.76	1.61
11	AB	4680	DT	O3'-P	13.17	1.76	1.61
11	AB	5381	DT	O3'-P	13.17	1.76	1.61
11	AB	5496	DA	O3'-P	13.17	1.76	1.61
38	D2	5	DA	O3'-P	13.17	1.76	1.61
58	ED	20	DA	O3'-P	13.17	1.76	1.61
204	T3	34	DT	O3'-P	13.17	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
113	JD	2	DA	O3'-P	13.17	1.76	1.61
160	O7	7	DA	O3'-P	13.17	1.76	1.61
173	PA	17	DT	O3'-P	13.17	1.76	1.61
187	R5	13	DT	O3'-P	13.17	1.76	1.61
188	R7	6	DA	O3'-P	13.17	1.76	1.61
11	AB	971	DT	O3'-P	13.16	1.76	1.61
11	AB	3823	DA	O3'-P	13.16	1.76	1.61
11	AB	5044	DA	O3'-P	13.16	1.76	1.61
102	ID	22	DA	O3'-P	13.16	1.76	1.61
144	MC	11	DT	O3'-P	13.16	1.76	1.61
152	N9	28	DT	O3'-P	13.16	1.76	1.61
11	AB	1970	DT	O3'-P	13.16	1.76	1.61
11	AB	2105	DT	O3'-P	13.16	1.76	1.61
11	AB	2488	DT	O3'-P	13.16	1.76	1.61
11	AB	2653	DA	O3'-P	13.16	1.76	1.61
11	AB	3477	DT	O3'-P	13.16	1.76	1.61
11	AB	6153	DA	O3'-P	13.16	1.76	1.61
11	AB	6633	DA	O3'-P	13.16	1.76	1.61
11	AB	7179	DT	O3'-P	13.16	1.76	1.61
13	AD	42	DT	O3'-P	13.16	1.76	1.61
73	G5	15	DA	O3'-P	13.16	1.76	1.61
108	J7	6	DA	O3'-P	13.16	1.76	1.61
126	L2	50	DA	O3'-P	13.16	1.76	1.61
128	L5	9	DT	O3'-P	13.16	1.76	1.61
190	R9	27	DA	O3'-P	13.16	1.76	1.61
125	L1	9	DA	O3'-P	13.16	1.76	1.61
125	L1	11	DA	O3'-P	13.16	1.76	1.61
152	N9	11	DT	O3'-P	13.16	1.76	1.61
194	S2	13	DA	O3'-P	13.16	1.76	1.61
213	U3	9	DA	O3'-P	13.16	1.76	1.61
5	A5	40	DT	O3'-P	13.16	1.76	1.61
11	AB	60	DA	O3'-P	13.16	1.76	1.61
11	AB	182	DT	O3'-P	13.16	1.76	1.61
11	AB	206	DT	O3'-P	13.16	1.76	1.61
11	AB	410	DT	O3'-P	13.16	1.76	1.61
11	AB	761	DA	O3'-P	13.16	1.76	1.61
11	AB	1394	DT	O3'-P	13.16	1.76	1.61
11	AB	4857	DT	O3'-P	13.16	1.76	1.61
11	AB	5023	DT	O3'-P	13.16	1.76	1.61
11	AB	5797	DT	O3'-P	13.16	1.76	1.61
11	AB	6745	DT	O3'-P	13.16	1.76	1.61
99	I9	13	DT	O3'-P	13.16	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1500	DT	O3'-P	13.16	1.76	1.61
11	AB	1551	DT	O3'-P	13.16	1.76	1.61
11	AB	3180	DT	O3'-P	13.16	1.76	1.61
11	AB	3817	DA	O3'-P	13.16	1.76	1.61
11	AB	4201	DA	O3'-P	13.16	1.76	1.61
11	AB	4995	DT	O3'-P	13.16	1.76	1.61
11	AB	5057	DA	O3'-P	13.16	1.76	1.61
11	AB	5251	DA	O3'-P	13.16	1.76	1.61
11	AB	5481	DA	O3'-P	13.16	1.76	1.61
11	AB	6935	DA	O3'-P	13.16	1.76	1.61
106	J5	11	DT	O3'-P	13.16	1.76	1.61
18	B5	10	DA	O3'-P	13.16	1.76	1.61
37	D1	16	DA	O3'-P	13.16	1.76	1.61
76	G8	17	DT	O3'-P	13.16	1.76	1.61
79	GC	20	DT	O3'-P	13.16	1.76	1.61
126	L2	47	DA	O3'-P	13.16	1.76	1.61
130	L7	5	DA	O3'-P	13.16	1.76	1.61
139	M6	3	DA	O3'-P	13.16	1.76	1.61
209	TA	26	DA	O3'-P	13.16	1.76	1.61
215	U7	13	DT	O3'-P	13.16	1.76	1.61
11	AB	3132	DT	O3'-P	13.16	1.76	1.61
212	U2	12	DA	O3'-P	13.16	1.76	1.61
8	A8	9	DA	O3'-P	13.16	1.76	1.61
11	AB	1379	DT	O3'-P	13.16	1.76	1.61
11	AB	1414	DA	O3'-P	13.16	1.76	1.61
11	AB	1570	DT	O3'-P	13.16	1.76	1.61
11	AB	2333	DT	O3'-P	13.16	1.76	1.61
11	AB	2354	DT	O3'-P	13.16	1.76	1.61
11	AB	3728	DA	O3'-P	13.16	1.76	1.61
11	AB	4682	DT	O3'-P	13.16	1.76	1.61
11	AB	5069	DT	O3'-P	13.16	1.76	1.61
11	AB	5727	DT	O3'-P	13.16	1.76	1.61
22	B9	52	DA	O3'-P	13.16	1.76	1.61
11	AB	5801	DT	O3'-P	13.16	1.76	1.61
11	AB	5891	DA	O3'-P	13.16	1.76	1.61
11	AB	6003	DT	O3'-P	13.16	1.76	1.61
11	AB	6129	DT	O3'-P	13.16	1.76	1.61
58	ED	6	DA	O3'-P	13.16	1.76	1.61
71	G2	21	DA	O3'-P	13.16	1.76	1.61
102	ID	3	DA	O3'-P	13.16	1.76	1.61
133	LA	5	DT	O3'-P	13.16	1.76	1.61
137	M3	4	DA	O3'-P	13.16	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
145	MD	52	DA	O3'-P	13.16	1.76	1.61
161	O8	56	DA	O3'-P	13.16	1.76	1.61
188	R7	27	DT	O3'-P	13.16	1.76	1.61
218	UA	12	DA	O3'-P	13.16	1.76	1.61
230	W3	18	DA	O3'-P	13.16	1.76	1.61
217	U9	6	DA	O3'-P	13.16	1.76	1.61
238	X9	9	DT	O3'-P	13.16	1.76	1.61
11	AB	1142	DT	O3'-P	13.15	1.76	1.61
11	AB	3153	DT	O3'-P	13.15	1.76	1.61
8	A8	23	DT	O3'-P	13.15	1.76	1.61
11	AB	1684	DT	O3'-P	13.15	1.76	1.61
11	AB	1844	DT	O3'-P	13.15	1.76	1.61
11	AB	2177	DT	O3'-P	13.15	1.76	1.61
11	AB	2985	DT	O3'-P	13.15	1.76	1.61
11	AB	3012	DT	O3'-P	13.15	1.76	1.61
11	AB	4849	DT	O3'-P	13.15	1.76	1.61
11	AB	3033	DT	O3'-P	13.15	1.76	1.61
11	AB	3603	DT	O3'-P	13.15	1.76	1.61
11	AB	3765	DT	O3'-P	13.15	1.76	1.61
11	AB	4963	DA	O3'-P	13.15	1.76	1.61
11	AB	5080	DT	O3'-P	13.15	1.76	1.61
11	AB	5115	DA	O3'-P	13.15	1.76	1.61
11	AB	5640	DT	O3'-P	13.15	1.76	1.61
11	AB	6809	DT	O3'-P	13.15	1.76	1.61
46	DC	7	DA	O3'-P	13.15	1.76	1.61
51	E5	22	DT	O3'-P	13.15	1.76	1.61
55	E9	44	DT	O3'-P	13.15	1.76	1.61
11	AB	5298	DT	O3'-P	13.15	1.76	1.61
11	AB	6504	DT	O3'-P	13.15	1.76	1.61
11	AB	7039	DT	O3'-P	13.15	1.76	1.61
22	B9	10	DA	O3'-P	13.15	1.76	1.61
74	G6	28	DT	O3'-P	13.15	1.76	1.61
109	J8	52	DA	O3'-P	13.15	1.76	1.61
133	LA	1	DT	O3'-P	13.15	1.76	1.61
187	R5	36	DA	O3'-P	13.15	1.76	1.61
206	T7	37	DA	O3'-P	13.15	1.76	1.61
218	UA	17	DT	O3'-P	13.15	1.76	1.61
222	V3	20	DT	O3'-P	13.15	1.76	1.61
226	V9	14	DA	O3'-P	13.15	1.76	1.61
233	W8	20	DT	O3'-P	13.15	1.76	1.61
11	AB	4844	DA	O3'-P	13.15	1.76	1.61
69	FD	39	DA	O3'-P	13.15	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	3	DA	O3'-P	13.15	1.76	1.61
11	AB	398	DT	O3'-P	13.15	1.76	1.61
11	AB	2916	DA	O3'-P	13.15	1.76	1.61
11	AB	4465	DT	O3'-P	13.15	1.76	1.61
11	AB	6176	DT	O3'-P	13.15	1.76	1.61
11	AB	6254	DT	O3'-P	13.15	1.76	1.61
22	B9	46	DA	O3'-P	13.15	1.76	1.61
117	K5	16	DT	O3'-P	13.15	1.76	1.61
11	AB	3407	DA	O3'-P	13.15	1.76	1.61
11	AB	6564	DT	O3'-P	13.15	1.76	1.61
40	D5	17	DA	O3'-P	13.15	1.76	1.61
100	IA	22	DA	O3'-P	13.15	1.76	1.61
52	E6	27	DA	O3'-P	13.15	1.76	1.61
82	H2	53	DA	O3'-P	13.15	1.76	1.61
95	I5	21	DA	O3'-P	13.15	1.76	1.61
206	T7	6	DA	O3'-P	13.15	1.76	1.61
11	AB	2066	DT	O3'-P	13.15	1.76	1.61
11	AB	3862	DA	O3'-P	13.15	1.76	1.61
11	AB	3951	DT	O3'-P	13.15	1.76	1.61
11	AB	1067	DT	O3'-P	13.15	1.76	1.61
11	AB	1638	DA	O3'-P	13.15	1.76	1.61
11	AB	3218	DA	O3'-P	13.15	1.76	1.61
11	AB	3417	DA	O3'-P	13.15	1.76	1.61
11	AB	3702	DT	O3'-P	13.15	1.76	1.61
11	AB	4240	DT	O3'-P	13.15	1.76	1.61
11	AB	4653	DA	O3'-P	13.15	1.76	1.61
11	AB	5151	DT	O3'-P	13.15	1.76	1.61
11	AB	7082	DT	O3'-P	13.15	1.76	1.61
11	AB	7153	DA	O3'-P	13.15	1.76	1.61
114	K1	30	DA	O3'-P	13.15	1.76	1.61
11	AB	5634	DA	O3'-P	13.15	1.76	1.61
11	AB	5748	DA	O3'-P	13.15	1.76	1.61
11	AB	7192	DT	O3'-P	13.15	1.76	1.61
14	B1	19	DA	O3'-P	13.15	1.76	1.61
22	B9	12	DA	O3'-P	13.15	1.76	1.61
24	BC	14	DA	O3'-P	13.15	1.76	1.61
42	D7	6	DT	O3'-P	13.15	1.76	1.61
61	F3	5	DT	O3'-P	13.15	1.76	1.61
122	KA	26	DA	O3'-P	13.15	1.76	1.61
165	OD	54	DA	O3'-P	13.15	1.76	1.61
190	R9	12	DA	O3'-P	13.15	1.76	1.61
230	W3	12	DT	O3'-P	13.15	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3660	DT	O3'-P	13.14	1.76	1.61
11	AB	4924	DT	O3'-P	13.14	1.76	1.61
11	AB	7135	DA	O3'-P	13.14	1.76	1.61
29	C5	2	DT	O3'-P	13.14	1.76	1.61
187	R5	26	DA	O3'-P	13.14	1.76	1.61
222	V3	23	DT	O3'-P	13.14	1.76	1.61
11	AB	1610	DA	O3'-P	13.14	1.76	1.61
11	AB	1854	DT	O3'-P	13.14	1.76	1.61
11	AB	2217	DA	O3'-P	13.14	1.76	1.61
11	AB	2961	DT	O3'-P	13.14	1.76	1.61
11	AB	4833	DA	O3'-P	13.14	1.76	1.61
11	AB	5193	DA	O3'-P	13.14	1.76	1.61
11	AB	5577	DT	O3'-P	13.14	1.76	1.61
11	AB	5836	DA	O3'-P	13.14	1.76	1.61
11	AB	5839	DA	O3'-P	13.14	1.76	1.61
11	AB	5948	DA	O3'-P	13.14	1.76	1.61
11	AB	7198	DT	O3'-P	13.14	1.76	1.61
12	AC	21	DA	O3'-P	13.14	1.76	1.61
44	D9	22	DA	O3'-P	13.14	1.76	1.61
69	FD	1	DA	O3'-P	13.14	1.76	1.61
76	G8	5	DA	O3'-P	13.14	1.76	1.61
82	H2	35	DA	O3'-P	13.14	1.76	1.61
90	HC	26	DA	O3'-P	13.14	1.76	1.61
115	K2	14	DT	O3'-P	13.14	1.76	1.61
216	U8	23	DT	O3'-P	13.14	1.76	1.61
2	A2	22	DT	O3'-P	13.14	1.76	1.61
6	A6	8	DA	O3'-P	13.14	1.76	1.61
11	AB	2212	DT	O3'-P	13.14	1.76	1.61
140	M7	12	DA	O3'-P	13.14	1.76	1.61
8	A8	15	DA	O3'-P	13.14	1.76	1.61
11	AB	215	DT	O3'-P	13.14	1.76	1.61
11	AB	269	DA	O3'-P	13.14	1.76	1.61
11	AB	832	DT	O3'-P	13.14	1.76	1.61
11	AB	1375	DT	O3'-P	13.14	1.76	1.61
11	AB	1850	DT	O3'-P	13.14	1.76	1.61
11	AB	5433	DA	O3'-P	13.14	1.76	1.61
11	AB	5657	DA	O3'-P	13.14	1.76	1.61
11	AB	5874	DT	O3'-P	13.14	1.76	1.61
125	L1	1	DT	O3'-P	13.14	1.76	1.61
11	AB	1966	DT	O3'-P	13.14	1.76	1.61
11	AB	2728	DA	O3'-P	13.14	1.76	1.61
11	AB	2825	DT	O3'-P	13.14	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3444	DT	O3'-P	13.14	1.76	1.61
11	AB	3519	DT	O3'-P	13.14	1.76	1.61
11	AB	4095	DT	O3'-P	13.14	1.76	1.61
11	AB	6297	DA	O3'-P	13.14	1.76	1.61
11	AB	6674	DT	O3'-P	13.14	1.76	1.61
45	DA	10	DT	O3'-P	13.14	1.76	1.61
134	LC	9	DA	O3'-P	13.14	1.76	1.61
11	AB	4098	DT	O3'-P	13.14	1.76	1.61
11	AB	4958	DA	O3'-P	13.14	1.76	1.61
11	AB	5287	DT	O3'-P	13.14	1.76	1.61
11	AB	5610	DT	O3'-P	13.14	1.76	1.61
30	C6	2	DA	O3'-P	13.14	1.76	1.61
30	C6	30	DA	O3'-P	13.14	1.76	1.61
41	D6	8	DA	O3'-P	13.14	1.76	1.61
70	G1	4	DT	O3'-P	13.14	1.76	1.61
94	I3	16	DA	O3'-P	13.14	1.76	1.61
102	ID	20	DA	O3'-P	13.14	1.76	1.61
104	J2	2	DA	O3'-P	13.14	1.76	1.61
114	K1	43	DT	O3'-P	13.14	1.76	1.61
119	K7	12	DA	O3'-P	13.14	1.76	1.61
130	L7	33	DA	O3'-P	13.14	1.76	1.61
152	N9	1	DT	O3'-P	13.14	1.76	1.61
206	T7	8	DA	O3'-P	13.14	1.76	1.61
206	T7	22	DA	O3'-P	13.14	1.76	1.61
211	TD	22	DT	O3'-P	13.14	1.76	1.61
213	U3	15	DT	O3'-P	13.14	1.76	1.61
217	U9	27	DT	O3'-P	13.14	1.76	1.61
11	AB	304	DA	O3'-P	13.14	1.76	1.61
11	AB	1154	DT	O3'-P	13.14	1.76	1.61
11	AB	3741	DA	O3'-P	13.14	1.76	1.61
11	AB	4468	DT	O3'-P	13.14	1.76	1.61
11	AB	5092	DT	O3'-P	13.14	1.76	1.61
11	AB	5582	DT	O3'-P	13.14	1.76	1.61
11	AB	2094	DT	O3'-P	13.14	1.76	1.61
11	AB	2805	DT	O3'-P	13.14	1.76	1.61
11	AB	6261	DT	O3'-P	13.14	1.76	1.61
11	AB	7071	DT	O3'-P	13.14	1.76	1.61
43	D8	36	DA	O3'-P	13.14	1.76	1.61
82	H2	42	DA	O3'-P	13.14	1.76	1.61
202	SD	9	DA	O3'-P	13.14	1.76	1.61
204	T3	19	DT	O3'-P	13.14	1.76	1.61
4	A4	22	DT	O3'-P	13.13	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	372	DT	O3'-P	13.13	1.76	1.61
11	AB	449	DT	O3'-P	13.13	1.76	1.61
11	AB	6041	DA	O3'-P	13.14	1.76	1.61
11	AB	7189	DT	O3'-P	13.14	1.76	1.61
108	J7	54	DA	O3'-P	13.14	1.76	1.61
11	AB	1058	DA	O3'-P	13.13	1.76	1.61
11	AB	2509	DT	O3'-P	13.13	1.76	1.61
40	D5	23	DA	O3'-P	13.13	1.76	1.61
73	G5	6	DA	O3'-P	13.13	1.76	1.61
103	J1	12	DT	O3'-P	13.13	1.76	1.61
112	JC	11	DA	O3'-P	13.13	1.76	1.61
119	K7	20	DT	O3'-P	13.14	1.76	1.61
125	L1	47	DT	O3'-P	13.13	1.76	1.61
142	M9	20	DA	O3'-P	13.13	1.76	1.61
156	O2	9	DT	O3'-P	13.14	1.76	1.61
203	T2	25	DA	O3'-P	13.13	1.76	1.61
1	A1	14	DA	O3'-P	13.13	1.76	1.61
9	A9	7	DA	O3'-P	13.13	1.76	1.61
11	AB	139	DA	O3'-P	13.13	1.76	1.61
11	AB	1405	DT	O3'-P	13.13	1.76	1.61
11	AB	2867	DT	O3'-P	13.13	1.76	1.61
11	AB	3315	DT	O3'-P	13.13	1.76	1.61
11	AB	3583	DA	O3'-P	13.13	1.76	1.61
11	AB	3805	DA	O3'-P	13.13	1.76	1.61
11	AB	4282	DT	O3'-P	13.13	1.76	1.61
11	AB	5008	DT	O3'-P	13.13	1.76	1.61
11	AB	6922	DA	O3'-P	13.13	1.76	1.61
145	MD	23	DA	O3'-P	13.13	1.76	1.61
192	RC	32	DT	O3'-P	13.13	1.76	1.61
206	T7	35	DA	O3'-P	13.13	1.76	1.61
238	X9	6	DT	O3'-P	13.13	1.76	1.61
3	A3	19	DA	O3'-P	13.13	1.76	1.61
7	A7	10	DT	O3'-P	13.13	1.76	1.61
11	AB	419	DT	O3'-P	13.13	1.76	1.61
11	AB	845	DT	O3'-P	13.13	1.76	1.61
11	AB	1145	DT	O3'-P	13.13	1.76	1.61
11	AB	2408	DT	O3'-P	13.13	1.76	1.61
11	AB	3687	DT	O3'-P	13.13	1.76	1.61
92	I1	12	DA	O3'-P	13.13	1.76	1.61
169	P6	15	DA	O3'-P	13.13	1.76	1.61
11	AB	4885	DT	O3'-P	13.13	1.76	1.61
11	AB	5813	DT	O3'-P	13.13	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	C8	14	DT	O3'-P	13.13	1.76	1.61
41	D6	17	DT	O3'-P	13.13	1.76	1.61
84	H5	8	DT	O3'-P	13.13	1.76	1.61
84	H5	13	DA	O3'-P	13.13	1.76	1.61
87	H8	20	DA	O3'-P	13.13	1.76	1.61
109	J8	10	DA	O3'-P	13.13	1.76	1.61
138	M5	15	DT	O3'-P	13.13	1.76	1.61
154	NC	29	DA	O3'-P	13.13	1.76	1.61
166	P2	5	DT	O3'-P	13.13	1.76	1.61
187	R5	22	DA	O3'-P	13.13	1.76	1.61
189	R8	30	DA	O3'-P	13.13	1.76	1.61
225	V8	19	DA	O3'-P	13.13	1.76	1.61
11	AB	578	DT	O3'-P	13.13	1.76	1.61
11	AB	2202	DT	O3'-P	13.13	1.76	1.61
11	AB	3251	DA	O3'-P	13.13	1.76	1.61
11	AB	4776	DA	O3'-P	13.13	1.76	1.61
11	AB	6420	DT	O3'-P	13.13	1.76	1.61
11	AB	6892	DT	O3'-P	13.13	1.76	1.61
31	C7	22	DA	O3'-P	13.13	1.76	1.61
67	FA	17	DA	O3'-P	13.13	1.76	1.61
80	GD	18	DA	O3'-P	13.13	1.76	1.61
119	K7	2	DA	O3'-P	13.13	1.76	1.61
145	MD	45	DT	O3'-P	13.13	1.76	1.61
192	RC	6	DA	O3'-P	13.13	1.76	1.61
11	AB	892	DA	O3'-P	13.13	1.76	1.61
11	AB	1705	DT	O3'-P	13.13	1.76	1.61
11	AB	3065	DA	O3'-P	13.13	1.76	1.61
11	AB	3150	DT	O3'-P	13.13	1.76	1.61
11	AB	3516	DT	O3'-P	13.13	1.76	1.61
11	AB	3768	DT	O3'-P	13.13	1.76	1.61
11	AB	4270	DT	O3'-P	13.13	1.76	1.61
11	AB	5015	DT	O3'-P	13.13	1.76	1.61
11	AB	5467	DT	O3'-P	13.13	1.76	1.61
19	B6	8	DT	O3'-P	13.13	1.76	1.61
22	B9	3	DT	O3'-P	13.13	1.76	1.61
75	G7	23	DA	O3'-P	13.13	1.76	1.61
108	J7	19	DT	O3'-P	13.13	1.76	1.61
114	K1	15	DA	O3'-P	13.13	1.76	1.61
148	N5	28	DA	O3'-P	13.13	1.76	1.61
170	P7	16	DA	O3'-P	13.13	1.76	1.61
11	AB	2400	DA	O3'-P	13.12	1.76	1.61
11	AB	5230	DT	O3'-P	13.12	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6490	DT	O3'-P	13.12	1.76	1.61
11	AB	6749	DT	O3'-P	13.12	1.76	1.61
11	AB	7144	DA	O3'-P	13.12	1.76	1.61
47	DD	14	DT	O3'-P	13.12	1.76	1.61
102	ID	25	DA	O3'-P	13.12	1.76	1.61
126	L2	44	DA	O3'-P	13.12	1.76	1.61
132	L9	10	DA	O3'-P	13.13	1.76	1.61
156	O2	25	DT	O3'-P	13.12	1.76	1.61
182	QA	13	DA	O3'-P	13.12	1.76	1.61
230	W3	8	DT	O3'-P	13.12	1.76	1.61
11	AB	2555	DA	O3'-P	13.12	1.76	1.61
11	AB	6794	DT	O3'-P	13.12	1.76	1.61
190	R9	7	DT	O3'-P	13.12	1.76	1.61
211	TD	12	DA	O3'-P	13.12	1.76	1.61
9	A9	9	DA	O3'-P	13.12	1.76	1.61
11	AB	3632	DA	O3'-P	13.12	1.76	1.61
11	AB	4279	DT	O3'-P	13.12	1.76	1.61
19	B6	16	DA	O3'-P	13.12	1.76	1.61
22	B9	23	DA	O3'-P	13.12	1.76	1.61
73	G5	21	DA	O3'-P	13.12	1.76	1.61
155	ND	6	DA	O3'-P	13.12	1.76	1.61
217	U9	10	DA	O3'-P	13.12	1.76	1.61
231	W5	22	DA	O3'-P	13.12	1.76	1.61
11	AB	85	DA	O3'-P	13.12	1.76	1.61
11	AB	413	DT	O3'-P	13.12	1.76	1.61
11	AB	434	DT	O3'-P	13.12	1.76	1.61
11	AB	440	DT	O3'-P	13.12	1.76	1.61
11	AB	4294	DT	O3'-P	13.12	1.76	1.61
24	BC	33	DT	O3'-P	13.12	1.76	1.61
77	G9	16	DT	O3'-P	13.12	1.76	1.61
95	I5	41	DA	O3'-P	13.12	1.76	1.61
113	JD	37	DA	O3'-P	13.12	1.76	1.61
187	R5	17	DA	O3'-P	13.12	1.76	1.61
198	S8	7	DT	O3'-P	13.12	1.76	1.61
204	T3	37	DA	O3'-P	13.12	1.76	1.61
206	T7	11	DT	O3'-P	13.12	1.76	1.61
206	T7	14	DT	O3'-P	13.12	1.76	1.61
223	V5	8	DA	O3'-P	13.12	1.76	1.61
11	AB	680	DT	O3'-P	13.12	1.76	1.61
11	AB	2477	DA	O3'-P	13.12	1.76	1.61
11	AB	2949	DA	O3'-P	13.12	1.76	1.61
15	B2	15	DA	O3'-P	13.12	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	BA	32	DT	O3'-P	13.12	1.76	1.61
233	W8	12	DA	O3'-P	13.12	1.76	1.61
11	AB	212	DT	O3'-P	13.12	1.76	1.61
11	AB	806	DT	O3'-P	13.12	1.76	1.61
11	AB	2090	DT	O3'-P	13.12	1.76	1.61
11	AB	935	DT	O3'-P	13.11	1.76	1.61
11	AB	1676	DT	O3'-P	13.12	1.76	1.61
11	AB	2389	DA	O3'-P	13.12	1.76	1.61
11	AB	4949	DT	O3'-P	13.12	1.76	1.61
11	AB	5064	DT	O3'-P	13.12	1.76	1.61
14	B1	17	DA	O3'-P	13.12	1.76	1.61
124	KD	5	DT	O3'-P	13.12	1.76	1.61
130	L7	54	DT	O3'-P	13.11	1.76	1.61
172	P9	27	DT	O3'-P	13.12	1.76	1.61
174	PC	22	DT	O3'-P	13.12	1.76	1.61
6	A6	27	DA	O3'-P	13.11	1.76	1.61
11	AB	3429	DA	O3'-P	13.11	1.76	1.61
11	AB	1160	DT	O3'-P	13.11	1.76	1.61
11	AB	3086	DA	O3'-P	13.11	1.76	1.61
11	AB	3789	DT	O3'-P	13.11	1.76	1.61
161	O8	52	DA	O3'-P	13.11	1.76	1.61
11	AB	3656	DA	O3'-P	13.11	1.76	1.61
11	AB	4337	DA	O3'-P	13.11	1.76	1.61
11	AB	4724	DT	O3'-P	13.11	1.76	1.61
11	AB	5004	DT	O3'-P	13.11	1.76	1.61
67	FA	2	DA	O3'-P	13.11	1.76	1.61
32	C8	7	DA	O3'-P	13.11	1.76	1.61
35	CC	21	DA	O3'-P	13.11	1.76	1.61
214	U5	29	DA	O3'-P	13.11	1.76	1.61
48	E1	4	DA	O3'-P	13.11	1.76	1.61
86	H7	10	DT	O3'-P	13.11	1.76	1.61
154	NC	3	DT	O3'-P	13.11	1.76	1.61
215	U7	22	DT	O3'-P	13.11	1.76	1.61
224	V7	20	DA	O3'-P	13.11	1.76	1.61
223	V5	31	DA	O3'-P	13.11	1.76	1.61
9	A9	17	DA	O3'-P	13.11	1.76	1.61
11	AB	854	DT	O3'-P	13.11	1.76	1.61
11	AB	3309	DT	O3'-P	13.11	1.76	1.61
11	AB	3392	DA	O3'-P	13.11	1.76	1.61
11	AB	3413	DA	O3'-P	13.11	1.76	1.61
11	AB	5473	DA	O3'-P	13.11	1.76	1.61
52	E6	29	DA	O3'-P	13.11	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
152	N9	46	DT	O3'-P	13.11	1.76	1.61
11	AB	389	DT	O3'-P	13.11	1.76	1.61
11	AB	2832	DT	O3'-P	13.11	1.76	1.61
11	AB	5505	DA	O3'-P	13.11	1.76	1.61
11	AB	5551	DA	O3'-P	13.11	1.76	1.61
11	AB	6356	DA	O3'-P	13.11	1.76	1.61
11	AB	6457	DA	O3'-P	13.11	1.76	1.61
11	AB	7029	DA	O3'-P	13.11	1.76	1.61
11	AB	7128	DA	O3'-P	13.11	1.76	1.61
22	B9	27	DA	O3'-P	13.11	1.76	1.61
34	CA	10	DA	O3'-P	13.11	1.76	1.61
143	MA	33	DT	O3'-P	13.11	1.76	1.61
206	T7	49	DA	O3'-P	13.11	1.76	1.61
83	H3	4	DT	O3'-P	13.11	1.76	1.61
115	K2	26	DT	O3'-P	13.11	1.76	1.61
167	P3	28	DA	O3'-P	13.11	1.76	1.61
188	R7	12	DT	O3'-P	13.11	1.76	1.61
11	AB	1540	DT	O3'-P	13.11	1.76	1.61
11	AB	3068	DA	O3'-P	13.11	1.76	1.61
11	AB	3777	DT	O3'-P	13.11	1.76	1.61
11	AB	5792	DT	O3'-P	13.11	1.76	1.61
47	DD	37	DA	O3'-P	13.11	1.76	1.61
98	I8	36	DA	O3'-P	13.11	1.76	1.61
11	AB	326	DA	O3'-P	13.11	1.76	1.61
11	AB	1151	DT	O3'-P	13.11	1.76	1.61
11	AB	4328	DT	O3'-P	13.11	1.76	1.61
11	AB	6049	DA	O3'-P	13.11	1.76	1.61
63	F6	16	DA	O3'-P	13.11	1.76	1.61
146	N2	13	DA	O3'-P	13.11	1.76	1.61
160	O7	15	DT	O3'-P	13.11	1.76	1.61
60	F2	21	DA	O3'-P	13.11	1.76	1.61
98	I8	43	DT	O3'-P	13.11	1.76	1.61
154	NC	20	DT	O3'-P	13.11	1.76	1.61
186	R3	10	DA	O3'-P	13.11	1.76	1.61
238	X9	48	DA	O3'-P	13.11	1.76	1.61
11	AB	69	DA	O3'-P	13.10	1.76	1.61
11	AB	89	DA	O3'-P	13.10	1.76	1.61
11	AB	3513	DT	O3'-P	13.10	1.76	1.61
5	A5	2	DT	O3'-P	13.10	1.76	1.61
11	AB	827	DT	O3'-P	13.10	1.76	1.61
11	AB	2780	DA	O3'-P	13.10	1.76	1.61
11	AB	5256	DA	O3'-P	13.10	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	C5	9	DA	O3'-P	13.10	1.76	1.61
30	C6	6	DA	O3'-P	13.10	1.76	1.61
48	E1	6	DA	O3'-P	13.10	1.76	1.61
90	HC	6	DT	O3'-P	13.10	1.76	1.61
121	K9	19	DT	O3'-P	13.10	1.76	1.61
187	R5	3	DA	O3'-P	13.10	1.76	1.61
11	AB	264	DT	O3'-P	13.10	1.76	1.61
11	AB	650	DT	O3'-P	13.10	1.76	1.61
11	AB	926	DT	O3'-P	13.10	1.76	1.61
11	AB	2000	DT	O3'-P	13.10	1.76	1.61
11	AB	5240	DT	O3'-P	13.10	1.76	1.61
11	AB	6228	DT	O3'-P	13.10	1.76	1.61
11	AB	7024	DA	O3'-P	13.10	1.76	1.61
29	C5	41	DT	O3'-P	13.10	1.76	1.61
41	D6	34	DT	O3'-P	13.10	1.76	1.61
43	D8	7	DA	O3'-P	13.10	1.76	1.61
83	H3	10	DA	O3'-P	13.10	1.76	1.61
93	I2	23	DA	O3'-P	13.10	1.76	1.61
108	J7	10	DA	O3'-P	13.10	1.76	1.61
11	AB	703	DA	O3'-P	13.10	1.76	1.61
11	AB	4310	DA	O3'-P	13.10	1.76	1.61
56	EA	9	DA	O3'-P	13.10	1.76	1.61
165	OD	5	DA	O3'-P	13.10	1.76	1.61
204	T3	16	DT	O3'-P	13.10	1.76	1.61
11	AB	851	DT	O3'-P	13.09	1.76	1.61
11	AB	977	DT	O3'-P	13.09	1.76	1.61
11	AB	1696	DT	O3'-P	13.09	1.76	1.61
11	AB	1720	DT	O3'-P	13.09	1.76	1.61
11	AB	1802	DT	O3'-P	13.09	1.76	1.61
11	AB	2343	DT	O3'-P	13.09	1.76	1.61
11	AB	4519	DT	O3'-P	13.09	1.76	1.61
64	F7	13	DT	O3'-P	13.09	1.76	1.61
83	H3	29	DA	O3'-P	13.09	1.76	1.61
88	H9	9	DT	O3'-P	13.09	1.76	1.61
11	AB	2828	DT	O3'-P	13.09	1.76	1.61
11	AB	3843	DT	O3'-P	13.09	1.76	1.61
11	AB	5805	DT	O3'-P	13.09	1.76	1.61
11	AB	6344	DT	O3'-P	13.09	1.76	1.61
36	CD	13	DA	O3'-P	13.09	1.76	1.61
47	DD	40	DA	O3'-P	13.09	1.76	1.61
104	J2	20	DT	O3'-P	13.09	1.76	1.61
122	KA	4	DT	O3'-P	13.09	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
152	N9	37	DA	O3'-P	13.09	1.76	1.61
157	O3	11	DA	O3'-P	13.09	1.76	1.61
11	AB	2712	DA	O3'-P	13.09	1.76	1.61
11	AB	5817	DT	O3'-P	13.09	1.76	1.61
127	L3	3	DA	O3'-P	13.09	1.76	1.61
201	SC	10	DA	O3'-P	13.09	1.76	1.61
11	AB	1976	DT	O3'-P	13.09	1.76	1.61
11	AB	3501	DT	O3'-P	13.09	1.76	1.61
153	NA	20	DA	O3'-P	13.09	1.76	1.61
205	T5	21	DA	O3'-P	13.09	1.76	1.61
11	AB	1988	DT	O3'-P	13.09	1.76	1.61
124	KD	18	DA	O3'-P	13.09	1.76	1.61
11	AB	607	DT	O3'-P	13.09	1.76	1.61
11	AB	1862	DA	O3'-P	13.09	1.76	1.61
11	AB	2568	DA	O3'-P	13.09	1.76	1.61
123	KC	15	DT	O3'-P	13.09	1.76	1.61
166	P2	27	DA	O3'-P	13.09	1.76	1.61
215	U7	20	DT	O3'-P	13.09	1.76	1.61
11	AB	4019	DA	O3'-P	13.09	1.76	1.61
6	A6	22	DA	O3'-P	13.08	1.76	1.61
11	AB	730	DT	O3'-P	13.08	1.76	1.61
11	AB	4606	DT	O3'-P	13.08	1.76	1.61
11	AB	5398	DT	O3'-P	13.08	1.76	1.61
13	AD	31	DA	O3'-P	13.08	1.76	1.61
118	K6	8	DT	O3'-P	13.08	1.76	1.61
226	V9	27	DT	O3'-P	13.08	1.76	1.61
11	AB	112	DA	O3'-P	13.08	1.76	1.61
11	AB	2195	DT	O3'-P	13.08	1.76	1.61
11	AB	3459	DT	O3'-P	13.08	1.76	1.61
44	D9	6	DT	O3'-P	13.08	1.76	1.61
66	F9	6	DA	O3'-P	13.08	1.76	1.61
159	O6	19	DA	O3'-P	13.08	1.76	1.61
11	AB	3675	DT	O3'-P	13.08	1.76	1.61
11	AB	3773	DT	O3'-P	13.08	1.76	1.61
11	AB	5227	DT	O3'-P	13.08	1.76	1.61
11	AB	6498	DT	O3'-P	13.08	1.76	1.61
11	AB	6692	DA	O3'-P	13.08	1.76	1.61
17	B4	21	DT	O3'-P	13.08	1.76	1.61
57	EC	8	DT	O3'-P	13.08	1.76	1.61
85	H6	15	DA	O3'-P	13.08	1.76	1.61
108	J7	29	DT	O3'-P	13.08	1.76	1.61
11	AB	4965	DA	O3'-P	13.08	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5922	DT	O3'-P	13.08	1.76	1.61
102	ID	29	DA	O3'-P	13.08	1.76	1.61
11	AB	1094	DT	O3'-P	13.08	1.76	1.61
11	AB	2862	DT	O3'-P	13.08	1.76	1.61
31	C7	2	DA	O3'-P	13.08	1.76	1.61
67	FA	5	DA	O3'-P	13.08	1.76	1.61
85	H6	30	DA	O3'-P	13.08	1.76	1.61
152	N9	22	DA	O3'-P	13.08	1.76	1.61
198	S8	26	DT	O3'-P	13.08	1.76	1.61
227	VA	10	DT	O3'-P	13.08	1.76	1.61
11	AB	1432	DA	O3'-P	13.07	1.76	1.61
11	AB	3174	DT	O3'-P	13.07	1.76	1.61
11	AB	3447	DT	O3'-P	13.07	1.76	1.61
11	AB	3809	DA	O3'-P	13.07	1.76	1.61
11	AB	4093	DT	O3'-P	13.07	1.76	1.61
119	K7	38	DT	O3'-P	13.07	1.76	1.61
128	L5	15	DA	O3'-P	13.07	1.76	1.61
169	P6	17	DA	O3'-P	13.07	1.76	1.61
11	AB	953	DT	O3'-P	13.07	1.76	1.61
11	AB	360	DT	O3'-P	13.07	1.76	1.61
11	AB	1091	DT	O3'-P	13.07	1.76	1.61
11	AB	2955	DT	O3'-P	13.07	1.76	1.61
11	AB	3231	DA	O3'-P	13.07	1.76	1.61
11	AB	4636	DA	O3'-P	13.07	1.76	1.61
11	AB	1298	DT	O3'-P	13.07	1.76	1.61
116	K3	9	DA	O3'-P	13.07	1.76	1.61
219	UC	17	DA	O3'-P	13.07	1.76	1.61
11	AB	4275	DT	O3'-P	13.07	1.76	1.61
119	K7	34	DT	O3'-P	13.07	1.76	1.61
11	AB	922	DA	O3'-P	13.07	1.76	1.61
11	AB	3605	DT	O3'-P	13.07	1.76	1.61
164	OC	25	DA	O3'-P	13.07	1.76	1.61
230	W3	47	DA	O3'-P	13.07	1.76	1.61
11	AB	4356	DT	O3'-P	13.06	1.76	1.61
11	AB	4794	DT	O3'-P	13.06	1.76	1.61
154	NC	33	DT	O3'-P	13.06	1.76	1.61
207	T8	18	DT	O3'-P	13.06	1.76	1.61
11	AB	4624	DA	O3'-P	13.06	1.76	1.61
55	E9	28	DT	O3'-P	13.06	1.76	1.61
81	H1	5	DT	O3'-P	13.06	1.76	1.61
11	AB	2417	DT	O3'-P	13.06	1.76	1.61
11	AB	3465	DT	O3'-P	13.06	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6317	DT	O3'-P	13.06	1.76	1.61
53	E7	10	DT	O3'-P	13.06	1.76	1.61
11	AB	907	DA	O3'-P	13.05	1.76	1.61
11	AB	1163	DT	O3'-P	13.05	1.76	1.61
11	AB	2261	DT	O3'-P	13.05	1.76	1.61
11	AB	6629	DA	O3'-P	13.05	1.76	1.61
32	C8	35	DA	O3'-P	13.05	1.76	1.61
76	G8	2	DT	O3'-P	13.05	1.76	1.61
128	L5	22	DA	O3'-P	13.05	1.76	1.61
161	O8	8	DA	O3'-P	13.05	1.76	1.61
11	AB	4621	DT	O3'-P	13.05	1.76	1.61
55	E9	10	DT	O3'-P	13.05	1.76	1.61
11	AB	4552	DT	O3'-P	13.05	1.76	1.61
11	AB	4709	DA	O3'-P	13.05	1.76	1.61
11	AB	6023	DA	O3'-P	13.05	1.76	1.61
11	AB	7230	DT	O3'-P	13.05	1.76	1.61
11	AB	2186	DT	O3'-P	13.05	1.76	1.61
11	AB	4557	DA	O3'-P	13.04	1.76	1.61
11	AB	6754	DA	O3'-P	13.04	1.76	1.61
181	Q9	19	DA	O3'-P	13.05	1.76	1.61
62	F5	47	DA	O3'-P	13.04	1.76	1.61
194	S2	17	DA	O3'-P	13.04	1.76	1.61
11	AB	962	DT	O3'-P	13.04	1.76	1.61
123	KC	17	DA	O3'-P	13.04	1.76	1.61
156	O2	58	DA	O3'-P	13.04	1.76	1.61
11	AB	6824	DA	O3'-P	13.03	1.76	1.61
11	AB	284	DA	O3'-P	13.02	1.76	1.61
11	AB	2798	DT	O3'-P	13.02	1.76	1.61
228	VC	8	DT	O3'-P	13.02	1.76	1.61
11	AB	3552	DA	O3'-P	13.02	1.76	1.61
149	N6	1	DT	O3'-P	13.02	1.76	1.61
101	IC	24	DT	O3'-P	13.01	1.76	1.61
11	AB	5463	DT	O3'-P	13.00	1.76	1.61
11	AB	3635	DA	O3'-P	13.00	1.76	1.61
61	F3	8	DA	O3'-P	13.00	1.76	1.61
43	D8	4	DA	O3'-P	12.99	1.76	1.61
11	AB	2765	DT	O3'-P	12.99	1.76	1.61
90	HC	20	DT	O3'-P	12.98	1.76	1.61
11	AB	4744	DT	O3'-P	12.97	1.76	1.61
219	UC	7	DT	O3'-P	12.96	1.76	1.61
158	O5	52	DT	O3'-P	12.95	1.76	1.61
11	AB	2882	DT	O3'-P	12.95	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4752	DT	O3'-P	12.95	1.76	1.61
11	AB	5111	DT	O3'-P	12.95	1.76	1.61
226	V9	3	DT	O3'-P	12.94	1.76	1.61
109	J8	48	DT	O3'-P	12.94	1.76	1.61
11	AB	4492	DT	O3'-P	12.93	1.76	1.61
11	AB	4570	DT	O3'-P	12.93	1.76	1.61
11	AB	5420	DT	O3'-P	12.92	1.76	1.61
11	AB	6207	DT	O3'-P	12.91	1.76	1.61
16	B3	15	DT	O3'-P	12.91	1.76	1.61
11	AB	3683	DT	O3'-P	12.91	1.76	1.61
11	AB	765	DT	O3'-P	12.91	1.76	1.61
140	M7	21	DT	O3'-P	12.91	1.76	1.61
11	AB	63	DT	O3'-P	12.90	1.76	1.61
108	J7	4	DT	O3'-P	12.90	1.76	1.61
11	AB	7027	DT	O3'-P	12.90	1.76	1.61
11	AB	1749	DT	O3'-P	12.90	1.76	1.61
11	AB	3375	DT	O3'-P	12.90	1.76	1.61
11	AB	5685	DT	O3'-P	12.90	1.76	1.61
11	AB	6713	DT	O3'-P	12.90	1.76	1.61
11	AB	6968	DT	O3'-P	12.90	1.76	1.61
49	E2	31	DT	O3'-P	12.90	1.76	1.61
11	AB	713	DT	O3'-P	12.90	1.76	1.61
22	B9	40	DT	O3'-P	12.90	1.76	1.61
65	F8	2	DT	O3'-P	12.90	1.76	1.61
11	AB	991	DT	O3'-P	12.89	1.76	1.61
11	AB	4364	DT	O3'-P	12.89	1.76	1.61
11	AB	7159	DT	O3'-P	12.89	1.76	1.61
56	EA	7	DT	O3'-P	12.89	1.76	1.61
141	M8	14	DT	O3'-P	12.89	1.76	1.61
11	AB	92	DT	O3'-P	12.89	1.76	1.61
11	AB	6517	DT	O3'-P	12.89	1.76	1.61
11	AB	539	DT	O3'-P	12.89	1.76	1.61
11	AB	3821	DT	O3'-P	12.89	1.76	1.61
11	AB	4841	DT	O3'-P	12.89	1.76	1.61
11	AB	890	DT	O3'-P	12.88	1.76	1.61
11	AB	1642	DT	O3'-P	12.88	1.76	1.61
11	AB	2760	DT	O3'-P	12.88	1.76	1.61
11	AB	3915	DT	O3'-P	12.89	1.76	1.61
11	AB	6285	DT	O3'-P	12.89	1.76	1.61
74	G6	20	DT	O3'-P	12.89	1.76	1.61
187	R5	24	DT	O3'-P	12.89	1.76	1.61
11	AB	28	DT	O3'-P	12.88	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1031	DT	O3'-P	12.88	1.76	1.61
11	AB	1180	DT	O3'-P	12.88	1.76	1.61
11	AB	3246	DT	O3'-P	12.88	1.76	1.61
11	AB	5953	DT	O3'-P	12.88	1.76	1.61
11	AB	1280	DT	O3'-P	12.88	1.76	1.61
219	UC	12	DT	O3'-P	12.88	1.76	1.61
11	AB	320	DT	O3'-P	12.88	1.76	1.61
11	AB	4334	DT	O3'-P	12.88	1.76	1.61
11	AB	5492	DT	O3'-P	12.88	1.76	1.61
11	AB	6018	DT	O3'-P	12.88	1.76	1.61
11	AB	6830	DT	O3'-P	12.88	1.76	1.61
11	AB	6856	DT	O3'-P	12.88	1.76	1.61
91	HD	14	DT	O3'-P	12.88	1.76	1.61
11	AB	800	DT	O3'-P	12.88	1.76	1.61
11	AB	5275	DT	O3'-P	12.88	1.76	1.61
11	AB	1768	DT	O3'-P	12.87	1.76	1.61
11	AB	2017	DT	O3'-P	12.87	1.76	1.61
11	AB	5680	DT	O3'-P	12.88	1.76	1.61
11	AB	315	DT	O3'-P	12.87	1.76	1.61
11	AB	788	DT	O3'-P	12.87	1.76	1.61
11	AB	1754	DT	O3'-P	12.87	1.76	1.61
11	AB	2532	DT	O3'-P	12.87	1.76	1.61
11	AB	2899	DT	O3'-P	12.87	1.76	1.61
11	AB	3398	DT	O3'-P	12.87	1.76	1.61
11	AB	3965	DT	O3'-P	12.87	1.76	1.61
11	AB	4627	DT	O3'-P	12.87	1.76	1.61
11	AB	5060	DT	O3'-P	12.87	1.76	1.61
11	AB	5574	DT	O3'-P	12.87	1.76	1.61
46	DC	5	DT	O3'-P	12.87	1.76	1.61
107	J6	11	DT	O3'-P	12.87	1.76	1.61
182	QA	10	DT	O3'-P	12.87	1.76	1.61
11	AB	1488	DT	O3'-P	12.87	1.76	1.61
11	AB	5502	DT	O3'-P	12.87	1.76	1.61
118	K6	17	DT	O3'-P	12.87	1.76	1.61
11	AB	2300	DT	O3'-P	12.87	1.76	1.61
11	AB	4410	DT	O3'-P	12.87	1.76	1.61
11	AB	5571	DT	O3'-P	12.87	1.76	1.61
11	AB	6991	DT	O3'-P	12.87	1.76	1.61
32	C8	52	DT	O3'-P	12.87	1.76	1.61
11	AB	3891	DT	O3'-P	12.87	1.76	1.61
69	FD	36	DT	O3'-P	12.87	1.76	1.61
73	G5	23	DT	O3'-P	12.87	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
96	I6	9	DT	O3'-P	12.87	1.76	1.61
11	AB	151	DT	O3'-P	12.87	1.76	1.61
11	AB	866	DT	O3'-P	12.87	1.76	1.61
11	AB	2621	DT	O3'-P	12.87	1.76	1.61
11	AB	6459	DT	O3'-P	12.87	1.76	1.61
160	O7	25	DT	O3'-P	12.86	1.76	1.61
179	Q7	20	DT	O3'-P	12.87	1.76	1.61
11	AB	869	DT	O3'-P	12.86	1.76	1.61
11	AB	1259	DT	O3'-P	12.86	1.76	1.61
11	AB	5118	DT	O3'-P	12.86	1.76	1.61
11	AB	1103	DT	O3'-P	12.86	1.76	1.61
11	AB	2034	DT	O3'-P	12.86	1.76	1.61
101	IC	12	DT	O3'-P	12.86	1.76	1.61
11	AB	2156	DT	O3'-P	12.86	1.76	1.61
11	AB	5487	DT	O3'-P	12.86	1.76	1.61
11	AB	6772	DT	O3'-P	12.86	1.76	1.61
174	PC	13	DT	O3'-P	12.86	1.76	1.61
206	T7	4	DT	O3'-P	12.86	1.76	1.61
6	A6	20	DT	O3'-P	12.86	1.76	1.61
11	AB	872	DT	O3'-P	12.86	1.76	1.61
11	AB	1458	DT	O3'-P	12.86	1.76	1.61
11	AB	2543	DT	O3'-P	12.86	1.76	1.61
11	AB	3887	DT	O3'-P	12.86	1.76	1.61
11	AB	5971	DT	O3'-P	12.86	1.76	1.61
11	AB	6210	DT	O3'-P	12.86	1.76	1.61
11	AB	6759	DT	O3'-P	12.86	1.76	1.61
11	AB	7108	DT	O3'-P	12.86	1.76	1.61
141	M8	20	DT	O3'-P	12.86	1.76	1.61
236	X5	8	DT	O3'-P	12.86	1.76	1.61
11	AB	3099	DT	O3'-P	12.86	1.76	1.61
11	AB	6222	DT	O3'-P	12.86	1.76	1.61
35	CC	29	DT	O3'-P	12.86	1.76	1.61
97	I7	13	DT	O3'-P	12.86	1.76	1.61
124	KD	22	DT	O3'-P	12.86	1.76	1.61
184	QD	13	DT	O3'-P	12.86	1.76	1.61
11	AB	6021	DT	O3'-P	12.85	1.76	1.61
11	AB	6119	DT	O3'-P	12.85	1.76	1.61
11	AB	3599	DT	O3'-P	12.85	1.76	1.61
11	AB	3794	DT	O3'-P	12.85	1.76	1.61
54	E8	25	DT	O3'-P	12.85	1.76	1.61
11	AB	13	DT	O3'-P	12.85	1.76	1.61
11	AB	905	DT	O3'-P	12.85	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1874	DT	O3'-P	12.85	1.76	1.61
11	AB	3114	DT	O3'-P	12.85	1.76	1.61
11	AB	3276	DT	O3'-P	12.85	1.76	1.61
11	AB	3546	DT	O3'-P	12.85	1.76	1.61
11	AB	5964	DT	O3'-P	12.85	1.76	1.61
11	AB	6836	DT	O3'-P	12.85	1.76	1.61
11	AB	7002	DT	O3'-P	12.85	1.76	1.61
17	B4	10	DT	O3'-P	12.85	1.76	1.61
31	C7	14	DT	O3'-P	12.85	1.76	1.61
68	FC	4	DT	O3'-P	12.85	1.76	1.61
197	S7	9	DT	O3'-P	12.85	1.76	1.61
201	SC	4	DT	O3'-P	12.85	1.76	1.61
11	AB	3360	DT	O3'-P	12.85	1.76	1.61
11	AB	6929	DT	O3'-P	12.85	1.76	1.61
11	AB	2627	DT	O3'-P	12.85	1.76	1.61
11	AB	5771	DT	O3'-P	12.85	1.76	1.61
31	C7	18	DT	O3'-P	12.85	1.76	1.61
121	K9	26	DT	O3'-P	12.85	1.76	1.61
148	N5	34	DT	O3'-P	12.84	1.76	1.61
11	AB	1346	DT	O3'-P	12.84	1.76	1.61
11	AB	2138	DT	O3'-P	12.84	1.76	1.61
11	AB	3420	DT	O3'-P	12.84	1.76	1.61
11	AB	6150	DT	O3'-P	12.84	1.76	1.61
48	E1	20	DT	O3'-P	12.84	1.76	1.61
11	AB	7014	DT	O3'-P	12.84	1.76	1.61
75	G7	25	DT	O3'-P	12.84	1.76	1.61
82	H2	37	DT	O3'-P	12.84	1.76	1.61
151	N8	14	DT	O3'-P	12.84	1.76	1.61
178	Q5	27	DT	O3'-P	12.84	1.76	1.61
197	S7	22	DT	O3'-P	12.84	1.76	1.61
11	AB	5272	DT	O3'-P	12.84	1.76	1.61
27	C2	8	DT	O3'-P	12.84	1.76	1.61
55	E9	37	DT	O3'-P	12.84	1.76	1.61
74	G6	32	DT	O3'-P	12.84	1.76	1.61
165	OD	31	DT	O3'-P	12.84	1.76	1.61
34	CA	16	DT	O3'-P	12.83	1.76	1.61
11	AB	2309	DT	O3'-P	12.83	1.76	1.61
11	AB	3234	DT	O3'-P	12.83	1.76	1.61
11	AB	7176	DT	O3'-P	12.83	1.76	1.61
93	I2	37	DT	O3'-P	12.83	1.76	1.61
96	I6	2	DT	O3'-P	12.83	1.76	1.61
138	M5	31	DT	O3'-P	12.83	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	309	DT	O3'-P	12.83	1.76	1.61
11	AB	3038	DT	O3'-P	12.83	1.76	1.61
11	AB	4889	DT	O3'-P	12.83	1.76	1.61
11	AB	5182	DT	O3'-P	12.83	1.76	1.61
218	UA	4	DT	O3'-P	12.83	1.76	1.61
11	AB	6462	DT	O3'-P	12.83	1.76	1.61
11	AB	7122	DT	O3'-P	12.83	1.76	1.61
222	V3	9	DT	O3'-P	12.83	1.76	1.61
11	AB	24	DT	O3'-P	12.83	1.76	1.61
11	AB	122	DT	O3'-P	12.83	1.76	1.61
11	AB	339	DT	O3'-P	12.83	1.76	1.61
11	AB	1627	DT	O3'-P	12.83	1.76	1.61
161	O8	22	DT	O3'-P	12.83	1.76	1.61
11	AB	1787	DT	O3'-P	12.82	1.76	1.61
11	AB	31	DT	O3'-P	12.82	1.76	1.61
11	AB	136	DT	O3'-P	12.82	1.76	1.61
11	AB	332	DT	O3'-P	12.82	1.76	1.61
11	AB	896	DT	O3'-P	12.82	1.76	1.61
11	AB	2378	DT	O3'-P	12.82	1.76	1.61
11	AB	4067	DT	O3'-P	12.82	1.76	1.61
11	AB	5559	DT	O3'-P	12.82	1.76	1.61
11	AB	7150	DT	O3'-P	12.82	1.76	1.61
28	C3	12	DT	O3'-P	12.82	1.76	1.61
211	TD	16	DT	O3'-P	12.82	1.76	1.61
11	AB	2061	DT	O3'-P	12.82	1.76	1.61
11	AB	779	DT	O3'-P	12.82	1.76	1.61
11	AB	1199	DT	O3'-P	12.82	1.76	1.61
11	AB	1216	DT	O3'-P	12.82	1.76	1.61
11	AB	1364	DT	O3'-P	12.82	1.76	1.61
11	AB	2234	DT	O3'-P	12.82	1.76	1.61
11	AB	5760	DT	O3'-P	12.82	1.76	1.61
11	AB	1603	DT	O3'-P	12.82	1.76	1.61
11	AB	5733	DT	O3'-P	12.82	1.76	1.61
11	AB	5844	DT	O3'-P	12.82	1.76	1.61
11	AB	5906	DT	O3'-P	12.82	1.76	1.61
11	AB	6290	DT	O3'-P	12.82	1.76	1.61
22	B9	44	DT	O3'-P	12.82	1.76	1.61
30	C6	15	DT	O3'-P	12.82	1.76	1.61
11	AB	6904	DT	O3'-P	12.82	1.76	1.61
95	I5	17	DT	O3'-P	12.82	1.76	1.61
117	K5	31	DT	O3'-P	12.82	1.76	1.61
125	L1	24	DT	O3'-P	12.82	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
126	L2	23	DT	O3'-P	12.82	1.76	1.61
11	AB	1340	DT	O3'-P	12.82	1.76	1.61
11	AB	2892	DT	O3'-P	12.82	1.76	1.61
11	AB	3405	DT	O3'-P	12.82	1.76	1.61
11	AB	4900	DT	O3'-P	12.82	1.76	1.61
82	H2	46	DT	O3'-P	12.82	1.76	1.61
99	I9	19	DT	O3'-P	12.82	1.76	1.61
109	J8	39	DT	O3'-P	12.82	1.76	1.61
232	W7	5	DT	O3'-P	12.82	1.76	1.61
232	W7	11	DT	O3'-P	12.82	1.76	1.61
11	AB	2537	DT	O3'-P	12.81	1.76	1.61
11	AB	1112	DT	O3'-P	12.81	1.76	1.61
11	AB	5655	DT	O3'-P	12.81	1.76	1.61
11	AB	6384	DT	O3'-P	12.81	1.76	1.61
11	AB	6539	DT	O3'-P	12.81	1.76	1.61
11	AB	6619	DT	O3'-P	12.81	1.76	1.61
11	AB	3681	DT	O3'-P	12.81	1.76	1.61
11	AB	3726	DT	O3'-P	12.81	1.76	1.61
11	AB	6542	DT	O3'-P	12.81	1.76	1.61
107	J6	42	DT	O3'-P	12.81	1.76	1.61
122	KA	43	DT	O3'-P	12.81	1.76	1.61
223	V5	12	DT	O3'-P	12.81	1.76	1.61
3	A3	22	DT	O3'-P	12.81	1.76	1.61
11	AB	473	DT	O3'-P	12.81	1.76	1.61
11	AB	482	DT	O3'-P	12.81	1.76	1.61
11	AB	2294	DT	O3'-P	12.81	1.76	1.61
11	AB	5847	DT	O3'-P	12.81	1.76	1.61
11	AB	5898	DT	O3'-P	12.81	1.76	1.61
120	K8	5	DT	O3'-P	12.81	1.76	1.61
136	M2	5	DT	O3'-P	12.81	1.76	1.61
174	PC	18	DT	O3'-P	12.81	1.76	1.61
200	SA	10	DT	O3'-P	12.81	1.76	1.61
56	EA	11	DT	O3'-P	12.81	1.76	1.61
11	AB	17	DT	O3'-P	12.81	1.76	1.61
11	AB	2278	DT	O3'-P	12.80	1.76	1.61
11	AB	3368	DT	O3'-P	12.81	1.76	1.61
11	AB	5429	DT	O3'-P	12.81	1.76	1.61
11	AB	6767	DT	O3'-P	12.81	1.76	1.61
47	DD	28	DT	O3'-P	12.81	1.76	1.61
102	ID	16	DT	O3'-P	12.80	1.76	1.61
108	J7	52	DT	O3'-P	12.81	1.76	1.61
113	JD	29	DT	O3'-P	12.81	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
117	K5	26	DT	O3'-P	12.80	1.76	1.61
11	AB	1428	DT	O3'-P	12.80	1.76	1.61
175	PD	7	DT	O3'-P	12.80	1.76	1.61
207	T8	8	DT	O3'-P	12.80	1.76	1.61
11	AB	878	DT	O3'-P	12.80	1.76	1.61
11	AB	1263	DT	O3'-P	12.80	1.76	1.61
11	AB	1337	DT	O3'-P	12.80	1.76	1.61
11	AB	3386	DT	O3'-P	12.80	1.76	1.61
11	AB	3390	DT	O3'-P	12.80	1.76	1.61
11	AB	4742	DT	O3'-P	12.80	1.76	1.61
178	Q5	23	DT	O3'-P	12.80	1.76	1.61
188	R7	4	DT	O3'-P	12.80	1.76	1.61
11	AB	983	DT	O3'-P	12.80	1.76	1.61
11	AB	1361	DT	O3'-P	12.80	1.76	1.61
11	AB	1781	DT	O3'-P	12.80	1.76	1.61
11	AB	4788	DT	O3'-P	12.80	1.76	1.61
31	C7	29	DT	O3'-P	12.80	1.76	1.61
33	C9	8	DT	O3'-P	12.80	1.76	1.61
102	ID	1	DT	O3'-P	12.80	1.76	1.61
172	P9	14	DT	O3'-P	12.80	1.76	1.61
11	AB	899	DT	O3'-P	12.79	1.76	1.61
11	AB	920	DT	O3'-P	12.79	1.76	1.61
11	AB	5976	DT	O3'-P	12.79	1.76	1.61
134	LC	11	DT	O3'-P	12.79	1.76	1.61
177	Q3	21	DT	O3'-P	12.79	1.76	1.61
189	R8	26	DT	O3'-P	12.79	1.76	1.61
195	S3	4	DT	O3'-P	12.79	1.76	1.61
199	S9	17	DT	O3'-P	12.79	1.76	1.61
207	T8	6	DT	O3'-P	12.79	1.76	1.61
11	AB	1590	DT	O3'-P	12.79	1.76	1.61
11	AB	4374	DT	O3'-P	12.79	1.76	1.61
11	AB	3242	DT	O3'-P	12.79	1.76	1.61
56	EA	14	DT	O3'-P	12.79	1.76	1.61
149	N6	25	DT	O3'-P	12.79	1.76	1.61
11	AB	1274	DT	O3'-P	12.79	1.76	1.61
11	AB	4746	DT	O3'-P	12.79	1.76	1.61
11	AB	1633	DT	O3'-P	12.79	1.76	1.61
11	AB	3423	DT	O3'-P	12.79	1.76	1.61
11	AB	3651	DT	O3'-P	12.79	1.76	1.61
11	AB	5322	DT	O3'-P	12.79	1.76	1.61
11	AB	5755	DT	O3'-P	12.79	1.76	1.61
85	H6	25	DT	O3'-P	12.79	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6519	DT	O3'-P	12.79	1.76	1.61
11	AB	6984	DT	O3'-P	12.79	1.76	1.61
88	H9	13	DT	O3'-P	12.79	1.76	1.61
129	L6	5	DT	O3'-P	12.79	1.76	1.61
194	S2	28	DT	O3'-P	12.79	1.76	1.61
11	AB	545	DT	O3'-P	12.79	1.76	1.61
11	AB	911	DT	O3'-P	12.79	1.76	1.61
11	AB	1479	DT	O3'-P	12.79	1.76	1.61
11	AB	3540	DT	O3'-P	12.78	1.76	1.61
11	AB	3870	DT	O3'-P	12.78	1.76	1.61
11	AB	4037	DT	O3'-P	12.78	1.76	1.61
119	K7	26	DT	O3'-P	12.78	1.76	1.61
11	AB	2943	DT	O3'-P	12.78	1.76	1.61
11	AB	6627	DT	O3'-P	12.78	1.76	1.61
11	AB	5424	DT	O3'-P	12.78	1.76	1.61
11	AB	6513	DT	O3'-P	12.78	1.76	1.61
212	U2	9	DT	O3'-P	12.78	1.76	1.61
84	H5	19	DT	O3'-P	12.78	1.76	1.61
11	AB	5364	DT	O3'-P	12.78	1.76	1.61
11	AB	37	DT	O3'-P	12.77	1.76	1.61
11	AB	313	DT	O3'-P	12.77	1.76	1.61
11	AB	5049	DT	O3'-P	12.77	1.76	1.61
165	OD	34	DT	O3'-P	12.77	1.76	1.61
11	AB	2931	DT	O3'-P	12.77	1.76	1.61
11	AB	1115	DT	O3'-P	12.77	1.76	1.61
11	AB	2642	DT	O3'-P	12.77	1.76	1.61
11	AB	3738	DT	O3'-P	12.77	1.76	1.61
11	AB	3894	DT	O3'-P	12.77	1.76	1.61
11	AB	4648	DT	O3'-P	12.77	1.76	1.61
174	PC	9	DT	O3'-P	12.77	1.76	1.61
234	W9	11	DT	O3'-P	12.77	1.76	1.61
11	AB	5027	DT	O3'-P	12.77	1.76	1.61
94	I3	54	DT	O3'-P	12.77	1.76	1.61
11	AB	1082	DT	O3'-P	12.77	1.76	1.61
11	AB	1193	DT	O3'-P	12.77	1.76	1.61
11	AB	1286	DT	O3'-P	12.77	1.76	1.61
11	AB	1588	DT	O3'-P	12.77	1.76	1.61
11	AB	3924	DT	O3'-P	12.77	1.76	1.61
11	AB	344	DT	O3'-P	12.76	1.76	1.61
11	AB	4495	DT	O3'-P	12.76	1.76	1.61
11	AB	5823	DT	O3'-P	12.76	1.76	1.61
83	H3	18	DT	O3'-P	12.76	1.76	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
109	J8	24	DT	O3'-P	12.76	1.76	1.61
180	Q8	9	DT	O3'-P	12.76	1.76	1.61
11	AB	3363	DT	O3'-P	12.76	1.76	1.61
11	AB	6779	DT	O3'-P	12.76	1.76	1.61
39	D3	1	DT	O3'-P	12.76	1.76	1.61
11	AB	6140	DT	O3'-P	12.76	1.76	1.61
11	AB	3104	DT	O3'-P	12.75	1.76	1.61
11	AB	2365	DT	O3'-P	12.75	1.76	1.61
11	AB	6268	DT	O3'-P	12.75	1.76	1.61
11	AB	6114	DT	O3'-P	12.75	1.76	1.61
85	H6	20	DT	O3'-P	12.75	1.76	1.61
137	M3	16	DT	O3'-P	12.75	1.76	1.61
11	AB	1440	DT	O3'-P	12.75	1.76	1.61
11	AB	6453	DT	O3'-P	12.75	1.76	1.61
11	AB	1772	DT	O3'-P	12.74	1.76	1.61
9	A9	5	DT	O3'-P	12.74	1.76	1.61
11	AB	2753	DT	O3'-P	12.74	1.76	1.61
58	ED	18	DT	O3'-P	12.74	1.76	1.61
11	AB	1666	DT	O3'-P	12.74	1.76	1.61
11	AB	2291	DT	O3'-P	12.74	1.76	1.61
11	AB	347	DT	O3'-P	12.73	1.76	1.61
11	AB	3752	DT	O3'-P	12.73	1.76	1.61
11	AB	4739	DT	O3'-P	12.73	1.76	1.61
11	AB	6327	DT	O3'-P	12.73	1.76	1.61
97	I7	29	DT	O3'-P	12.73	1.76	1.61
11	AB	2043	DT	O3'-P	12.72	1.76	1.61
11	AB	2159	DT	O3'-P	12.72	1.76	1.61
11	AB	3096	DT	O3'-P	12.71	1.76	1.61
11	AB	6615	DT	O3'-P	12.71	1.76	1.61
11	AB	6841	DT	O3'-P	12.71	1.76	1.61
11	AB	881	DT	O3'-P	12.70	1.76	1.61
161	O8	5	DT	O3'-P	12.70	1.76	1.61
11	AB	6437	DT	O3'-P	12.70	1.76	1.61
74	G6	34	DT	O3'-P	12.70	1.76	1.61
11	AB	302	DT	O3'-P	12.70	1.76	1.61
11	AB	2549	DT	O3'-P	12.69	1.76	1.61
11	AB	4306	DT	O3'-P	12.69	1.76	1.61
94	I3	42	DT	O3'-P	12.69	1.76	1.61
210	TC	6	DC	O3'-P	12.16	1.75	1.61
11	AB	1404	DC	O3'-P	12.14	1.75	1.61
99	I9	7	DC	O3'-P	12.12	1.75	1.61
215	U7	19	DC	O3'-P	12.12	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3674	DC	O3'-P	12.11	1.75	1.61
11	AB	7052	DC	O3'-P	12.11	1.75	1.61
183	QC	5	DC	O3'-P	12.11	1.75	1.61
11	AB	1128	DC	O3'-P	12.10	1.75	1.61
224	V7	6	DC	O3'-P	12.10	1.75	1.61
11	AB	576	DC	O3'-P	12.09	1.75	1.61
11	AB	3443	DC	O3'-P	12.09	1.75	1.61
198	S8	6	DC	O3'-P	12.09	1.75	1.61
172	P9	26	DC	O3'-P	12.09	1.75	1.61
210	TC	12	DC	O3'-P	12.08	1.75	1.61
11	AB	5079	DC	O3'-P	12.08	1.75	1.61
26	C1	14	DC	O3'-P	12.08	1.75	1.61
27	C2	21	DC	O3'-P	12.08	1.75	1.61
44	D9	10	DC	O3'-P	12.08	1.75	1.61
170	P7	7	DC	O3'-P	12.08	1.75	1.61
124	KD	4	DC	O3'-P	12.08	1.75	1.61
11	AB	1065	DC	O3'-P	12.07	1.75	1.61
11	AB	4467	DC	O3'-P	12.07	1.75	1.61
110	J9	7	DC	O3'-P	12.07	1.75	1.61
11	AB	601	DC	O3'-P	12.07	1.75	1.61
11	AB	3340	DC	O3'-P	12.07	1.75	1.61
11	AB	5392	DC	O3'-P	12.07	1.75	1.61
41	D6	16	DC	O3'-P	12.07	1.75	1.61
171	P8	7	DC	O3'-P	12.07	1.75	1.61
11	AB	1096	DC	O3'-P	12.07	1.75	1.61
11	AB	2972	DC	O3'-P	12.07	1.75	1.61
11	AB	961	DC	O3'-P	12.06	1.75	1.61
11	AB	1012	DC	O3'-P	12.06	1.75	1.61
11	AB	1306	DC	O3'-P	12.06	1.75	1.61
11	AB	4533	DC	O3'-P	12.06	1.75	1.61
11	AB	2535	DC	O3'-P	12.06	1.75	1.61
11	AB	5795	DC	O3'-P	12.06	1.75	1.61
32	C8	44	DC	O3'-P	12.06	1.75	1.61
144	MC	19	DC	O3'-P	12.06	1.75	1.61
124	KD	7	DC	O3'-P	12.06	1.75	1.61
11	AB	3509	DC	O3'-P	12.06	1.75	1.61
35	CC	15	DC	O3'-P	12.06	1.75	1.61
108	J7	16	DC	O3'-P	12.05	1.75	1.61
11	AB	2852	DC	O3'-P	12.05	1.75	1.61
11	AB	3446	DC	O3'-P	12.05	1.75	1.61
11	AB	196	DC	O3'-P	12.05	1.75	1.61
11	AB	5491	DC	O3'-P	12.05	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2584	DC	O3'-P	12.05	1.75	1.61
11	AB	3999	DC	O3'-P	12.05	1.75	1.61
11	AB	418	DC	O3'-P	12.04	1.75	1.61
11	AB	1972	DC	O3'-P	12.04	1.75	1.61
11	AB	5461	DC	O3'-P	12.04	1.75	1.61
122	KA	6	DC	O3'-P	12.04	1.75	1.61
11	AB	7114	DC	O3'-P	12.04	1.75	1.61
147	N3	26	DC	O3'-P	12.04	1.75	1.61
11	AB	115	DC	O3'-P	12.04	1.75	1.61
11	AB	379	DC	O3'-P	12.04	1.75	1.61
11	AB	1245	DC	O3'-P	12.04	1.75	1.61
11	AB	2843	DC	O3'-P	12.04	1.75	1.61
11	AB	3991	DC	O3'-P	12.04	1.75	1.61
11	AB	6721	DC	O3'-P	12.04	1.75	1.61
11	AB	6862	DC	O3'-P	12.04	1.75	1.61
44	D9	19	DC	O3'-P	12.04	1.75	1.61
138	M5	37	DC	O3'-P	12.04	1.75	1.61
11	AB	2984	DC	O3'-P	12.04	1.75	1.61
11	AB	5529	DC	O3'-P	12.04	1.75	1.61
11	AB	6077	DC	O3'-P	12.04	1.75	1.61
11	AB	6805	DC	O3'-P	12.04	1.75	1.61
11	AB	7045	DC	O3'-P	12.04	1.75	1.61
24	BC	31	DC	O3'-P	12.04	1.75	1.61
129	L6	21	DC	O3'-P	12.04	1.75	1.61
166	P2	33	DC	O3'-P	12.04	1.75	1.61
230	W3	7	DC	O3'-P	12.04	1.75	1.61
11	AB	1695	DC	O3'-P	12.04	1.75	1.61
11	AB	2353	DC	O3'-P	12.04	1.75	1.61
34	CA	15	DC	O3'-P	12.04	1.75	1.61
11	AB	1048	DC	O3'-P	12.03	1.75	1.61
11	AB	1536	DC	O3'-P	12.03	1.75	1.61
11	AB	1932	DC	O3'-P	12.03	1.75	1.61
11	AB	1951	DC	O3'-P	12.03	1.75	1.61
11	AB	6414	DC	O3'-P	12.03	1.75	1.61
11	AB	7182	DC	O3'-P	12.03	1.75	1.61
203	T2	5	DC	O3'-P	12.03	1.75	1.61
206	T7	13	DC	O3'-P	12.03	1.75	1.61
11	AB	831	DC	O3'-P	12.03	1.75	1.61
11	AB	1994	DC	O3'-P	12.03	1.75	1.61
11	AB	2425	DC	O3'-P	12.03	1.75	1.61
11	AB	3938	DC	O3'-P	12.03	1.75	1.61
11	AB	4253	DC	O3'-P	12.03	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4548	DC	O3'-P	12.03	1.75	1.61
11	AB	5783	DC	O3'-P	12.03	1.75	1.61
11	AB	6075	DC	O3'-P	12.03	1.75	1.61
67	FA	29	DC	O3'-P	12.03	1.75	1.61
220	UD	1	DC	O3'-P	12.03	1.75	1.61
217	U9	12	DC	O3'-P	12.03	1.75	1.61
11	AB	739	DC	O3'-P	12.03	1.75	1.61
11	AB	5596	DC	O3'-P	12.03	1.75	1.61
11	AB	7074	DC	O3'-P	12.03	1.75	1.61
111	JA	15	DC	O3'-P	12.03	1.75	1.61
82	H2	32	DC	O3'-P	12.03	1.75	1.61
167	P3	33	DC	O3'-P	12.03	1.75	1.61
233	W8	19	DC	O3'-P	12.03	1.75	1.61
11	AB	1542	DC	O3'-P	12.02	1.75	1.61
11	AB	4360	DC	O3'-P	12.02	1.75	1.61
11	AB	4395	DC	O3'-P	12.02	1.75	1.61
11	AB	6227	DC	O3'-P	12.02	1.75	1.61
11	AB	6253	DC	O3'-P	12.02	1.75	1.61
70	G1	3	DC	O3'-P	12.02	1.75	1.61
172	P9	22	DC	O3'-P	12.02	1.75	1.61
23	BA	27	DC	O3'-P	12.02	1.75	1.61
98	I8	26	DC	O3'-P	12.02	1.75	1.61
114	K1	42	DC	O3'-P	12.02	1.75	1.61
11	AB	191	DC	O3'-P	12.02	1.75	1.61
11	AB	256	DC	O3'-P	12.02	1.75	1.61
11	AB	391	DC	O3'-P	12.02	1.75	1.61
11	AB	574	DC	O3'-P	12.02	1.75	1.61
11	AB	3941	DC	O3'-P	12.02	1.75	1.61
11	AB	4242	DC	O3'-P	12.02	1.75	1.61
11	AB	5155	DC	O3'-P	12.02	1.75	1.61
11	AB	5397	DC	O3'-P	12.02	1.75	1.61
11	AB	5600	DC	O3'-P	12.02	1.75	1.61
11	AB	6131	DC	O3'-P	12.02	1.75	1.61
205	T5	6	DC	O3'-P	12.02	1.75	1.61
11	AB	2823	DC	O3'-P	12.02	1.75	1.61
11	AB	6736	DC	O3'-P	12.02	1.75	1.61
29	C5	23	DC	O3'-P	12.02	1.75	1.61
71	G2	6	DC	O3'-P	12.02	1.75	1.61
187	R5	12	DC	O3'-P	12.02	1.75	1.61
8	A8	22	DC	O3'-P	12.02	1.75	1.61
11	AB	1387	DC	O3'-P	12.02	1.75	1.61
11	AB	4005	DC	O3'-P	12.02	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	959	DC	O3'-P	12.02	1.75	1.61
11	AB	1072	DC	O3'-P	12.02	1.75	1.61
11	AB	1849	DC	O3'-P	12.02	1.75	1.61
11	AB	3830	DC	O3'-P	12.02	1.75	1.61
11	AB	6744	DC	O3'-P	12.02	1.75	1.61
30	C6	12	DC	O3'-P	12.02	1.75	1.61
154	NC	2	DC	O3'-P	12.02	1.75	1.61
11	AB	4862	DC	O3'-P	12.02	1.75	1.61
11	AB	5469	DC	O3'-P	12.02	1.75	1.61
11	AB	5930	DC	O3'-P	12.02	1.75	1.61
11	AB	6350	DC	O3'-P	12.02	1.75	1.61
11	AB	6860	DC	O3'-P	12.02	1.75	1.61
22	B9	6	DC	O3'-P	12.02	1.75	1.61
64	F7	12	DC	O3'-P	12.02	1.75	1.61
213	U3	20	DC	O3'-P	12.02	1.75	1.61
11	AB	211	DC	O3'-P	12.01	1.75	1.61
11	AB	1562	DC	O3'-P	12.01	1.75	1.61
11	AB	1801	DC	O3'-P	12.01	1.75	1.61
11	AB	2618	DC	O3'-P	12.01	1.75	1.61
11	AB	2992	DC	O3'-P	12.01	1.75	1.61
11	AB	3512	DC	O3'-P	12.01	1.75	1.61
93	I2	43	DC	O3'-P	12.01	1.75	1.61
101	IC	23	DC	O3'-P	12.01	1.75	1.61
143	MA	15	DC	O3'-P	12.01	1.75	1.61
216	U8	21	DC	O3'-P	12.01	1.75	1.61
223	V5	23	DC	O3'-P	12.01	1.75	1.61
11	AB	844	DC	O3'-P	12.01	1.75	1.61
11	AB	1132	DC	O3'-P	12.01	1.75	1.61
11	AB	1511	DC	O3'-P	12.01	1.75	1.61
11	AB	2025	DC	O3'-P	12.01	1.75	1.61
11	AB	2281	DC	O3'-P	12.01	1.75	1.61
11	AB	3764	DC	O3'-P	12.01	1.75	1.61
11	AB	4325	DC	O3'-P	12.01	1.75	1.61
11	AB	5140	DC	O3'-P	12.01	1.75	1.61
11	AB	5216	DC	O3'-P	12.01	1.75	1.61
11	AB	5522	DC	O3'-P	12.01	1.75	1.61
11	AB	5800	DC	O3'-P	12.01	1.75	1.61
11	AB	7054	DC	O3'-P	12.01	1.75	1.61
221	V2	1	DC	O3'-P	12.01	1.75	1.61
11	AB	571	DC	O3'-P	12.01	1.75	1.61
11	AB	1166	DC	O3'-P	12.01	1.75	1.61
11	AB	1574	DC	O3'-P	12.01	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2521	DC	O3'-P	12.01	1.75	1.61
11	AB	3003	DC	O3'-P	12.01	1.75	1.61
11	AB	3149	DC	O3'-P	12.01	1.75	1.61
11	AB	3284	DC	O3'-P	12.01	1.75	1.61
11	AB	3301	DC	O3'-P	12.01	1.75	1.61
11	AB	3344	DC	O3'-P	12.01	1.75	1.61
11	AB	3493	DC	O3'-P	12.01	1.75	1.61
11	AB	3500	DC	O3'-P	12.01	1.75	1.61
11	AB	3695	DC	O3'-P	12.01	1.75	1.61
11	AB	5981	DC	O3'-P	12.01	1.75	1.61
43	D8	18	DC	O3'-P	12.01	1.75	1.61
60	F2	29	DC	O3'-P	12.01	1.75	1.61
62	F5	7	DC	O3'-P	12.01	1.75	1.61
104	J2	18	DC	O3'-P	12.01	1.75	1.61
114	K1	39	DC	O3'-P	12.01	1.75	1.61
163	OA	14	DC	O3'-P	12.01	1.75	1.61
172	P9	17	DC	O3'-P	12.01	1.75	1.61
197	S7	13	DC	O3'-P	12.01	1.75	1.61
208	T9	9	DC	O3'-P	12.01	1.75	1.61
11	AB	1285	DC	O3'-P	12.01	1.75	1.61
11	AB	2100	DC	O3'-P	12.01	1.75	1.61
11	AB	3686	DC	O3'-P	12.01	1.75	1.61
11	AB	3988	DC	O3'-P	12.01	1.75	1.61
11	AB	4268	DC	O3'-P	12.01	1.75	1.61
11	AB	4544	DC	O3'-P	12.01	1.75	1.61
11	AB	5243	DC	O3'-P	12.01	1.75	1.61
46	DC	9	DC	O3'-P	12.01	1.75	1.61
74	G6	22	DC	O3'-P	12.01	1.75	1.61
140	M7	9	DC	O3'-P	12.01	1.75	1.61
186	R3	20	DC	O3'-P	12.01	1.75	1.61
204	T3	15	DC	O3'-P	12.01	1.75	1.61
207	T8	17	DC	O3'-P	12.01	1.75	1.61
209	TA	22	DC	O3'-P	12.01	1.75	1.61
11	AB	1478	DC	O3'-P	12.00	1.75	1.61
11	AB	4719	DC	O3'-P	12.00	1.75	1.61
167	P3	23	DC	O3'-P	12.00	1.75	1.61
192	RC	21	DC	O3'-P	12.00	1.75	1.61
11	AB	4124	DC	O3'-P	12.00	1.75	1.61
11	AB	4149	DC	O3'-P	12.00	1.75	1.61
37	D1	34	DC	O3'-P	12.00	1.75	1.61
51	E5	26	DC	O3'-P	12.00	1.75	1.61
11	AB	1954	DC	O3'-P	12.00	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1960	DC	O3'-P	12.00	1.75	1.61
178	Q5	12	DC	O3'-P	12.00	1.75	1.61
11	AB	4007	DC	O3'-P	12.00	1.75	1.61
43	D8	29	DC	O3'-P	12.00	1.75	1.61
72	G3	15	DC	O3'-P	12.00	1.75	1.61
92	I1	24	DC	O3'-P	12.00	1.75	1.61
212	U2	5	DC	O3'-P	12.00	1.75	1.61
220	UD	10	DC	O3'-P	12.00	1.75	1.61
1	A1	50	DC	O3'-P	12.00	1.75	1.61
11	AB	1495	DC	O3'-P	12.00	1.75	1.61
11	AB	3191	DC	O3'-P	12.00	1.75	1.61
11	AB	200	DC	O3'-P	12.00	1.75	1.61
11	AB	1704	DC	O3'-P	12.00	1.75	1.61
11	AB	3622	DC	O3'-P	12.00	1.75	1.61
11	AB	4464	DC	O3'-P	12.00	1.75	1.61
11	AB	6688	DC	O3'-P	12.00	1.75	1.61
128	L5	6	DC	O3'-P	12.00	1.75	1.61
11	AB	3352	DC	O3'-P	12.00	1.75	1.61
11	AB	4373	DC	O3'-P	12.00	1.75	1.61
11	AB	5063	DC	O3'-P	12.00	1.75	1.61
11	AB	5527	DC	O3'-P	12.00	1.75	1.61
11	AB	6503	DC	O3'-P	12.00	1.75	1.61
35	CC	12	DC	O3'-P	12.00	1.75	1.61
39	D3	6	DC	O3'-P	12.00	1.75	1.61
177	Q3	9	DC	O3'-P	12.00	1.75	1.61
189	R8	16	DC	O3'-P	12.00	1.75	1.61
196	S5	24	DC	O3'-P	12.00	1.75	1.61
11	AB	5239	DC	O3'-P	11.99	1.75	1.61
11	AB	743	DC	O3'-P	11.99	1.75	1.61
11	AB	932	DC	O3'-P	11.99	1.75	1.61
11	AB	1693	DC	O3'-P	11.99	1.75	1.61
11	AB	2675	DC	O3'-P	11.99	1.75	1.61
11	AB	5212	DC	O3'-P	11.99	1.75	1.61
11	AB	6486	DC	O3'-P	11.99	1.75	1.61
11	AB	6797	DC	O3'-P	11.99	1.75	1.61
11	AB	6807	DC	O3'-P	11.99	1.75	1.61
11	AB	7219	DC	O3'-P	11.99	1.75	1.61
114	K1	8	DC	O3'-P	11.99	1.75	1.61
11	AB	3776	DC	O3'-P	11.99	1.75	1.61
106	J5	8	DC	O3'-P	11.99	1.75	1.61
11	AB	592	DC	O3'-P	11.99	1.75	1.61
11	AB	709	DC	O3'-P	11.99	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1081	DC	O3'-P	11.99	1.75	1.61
11	AB	1150	DC	O3'-P	11.99	1.75	1.61
11	AB	1370	DC	O3'-P	11.99	1.75	1.61
11	AB	1396	DC	O3'-P	11.99	1.75	1.61
11	AB	2846	DC	O3'-P	11.99	1.75	1.61
11	AB	6756	DC	O3'-P	11.99	1.75	1.61
11	AB	1893	DC	O3'-P	11.99	1.75	1.61
11	AB	3498	DC	O3'-P	11.99	1.75	1.61
11	AB	3904	DC	O3'-P	11.99	1.75	1.61
11	AB	4136	DC	O3'-P	11.99	1.75	1.61
11	AB	5302	DC	O3'-P	11.99	1.75	1.61
11	AB	6410	DC	O3'-P	11.99	1.75	1.61
49	E2	24	DC	O3'-P	11.99	1.75	1.61
62	F5	20	DC	O3'-P	11.99	1.75	1.61
90	HC	5	DC	O3'-P	11.99	1.75	1.61
149	N6	3	DC	O3'-P	11.99	1.75	1.61
152	N9	27	DC	O3'-P	11.99	1.75	1.61
11	AB	62	DC	O3'-P	11.99	1.75	1.61
11	AB	2692	DC	O3'-P	11.99	1.75	1.61
11	AB	5091	DC	O3'-P	11.99	1.75	1.61
133	LA	7	DC	O3'-P	11.99	1.75	1.61
136	M2	1	DC	O3'-P	11.99	1.75	1.61
11	AB	863	DC	O3'-P	11.99	1.75	1.61
11	AB	1328	DC	O3'-P	11.99	1.75	1.61
11	AB	1560	DC	O3'-P	11.99	1.75	1.61
11	AB	1691	DC	O3'-P	11.99	1.75	1.61
11	AB	1968	DC	O3'-P	11.99	1.75	1.61
11	AB	2107	DC	O3'-P	11.99	1.75	1.61
11	AB	2176	DC	O3'-P	11.99	1.75	1.61
11	AB	3185	DC	O3'-P	11.99	1.75	1.61
11	AB	3464	DC	O3'-P	11.99	1.75	1.61
11	AB	3793	DC	O3'-P	11.99	1.75	1.61
22	B9	20	DC	O3'-P	11.99	1.75	1.61
11	AB	3833	DC	O3'-P	11.99	1.75	1.61
11	AB	5020	DC	O3'-P	11.99	1.75	1.61
11	AB	7191	DC	O3'-P	11.99	1.75	1.61
27	C2	12	DC	O3'-P	11.99	1.75	1.61
185	R2	13	DC	O3'-P	11.99	1.75	1.61
5	A5	32	DC	O3'-P	11.98	1.75	1.61
11	AB	205	DC	O3'-P	11.98	1.75	1.61
11	AB	387	DC	O3'-P	11.98	1.75	1.61
11	AB	1799	DC	O3'-P	11.98	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3485	DC	O3'-P	11.98	1.75	1.61
11	AB	3854	DC	O3'-P	11.98	1.75	1.61
11	AB	6527	DC	O3'-P	11.98	1.75	1.61
18	B5	17	DC	O3'-P	11.98	1.75	1.61
105	J3	16	DC	O3'-P	11.98	1.75	1.61
197	S7	21	DC	O3'-P	11.98	1.75	1.61
238	X9	5	DC	O3'-P	11.98	1.75	1.61
10	AA	5	DC	O3'-P	11.98	1.75	1.61
11	AB	4726	DC	O3'-P	11.98	1.75	1.61
11	AB	1556	DC	O3'-P	11.98	1.75	1.61
11	AB	2211	DC	O3'-P	11.98	1.75	1.61
11	AB	3159	DC	O3'-P	11.98	1.75	1.61
11	AB	6408	DC	O3'-P	11.98	1.75	1.61
11	AB	6792	DC	O3'-P	11.98	1.75	1.61
41	D6	6	DC	O3'-P	11.98	1.75	1.61
112	JC	13	DC	O3'-P	11.98	1.75	1.61
93	I2	46	DC	O3'-P	11.98	1.75	1.61
127	L3	17	DC	O3'-P	11.98	1.75	1.61
161	O8	17	DC	O3'-P	11.98	1.75	1.61
180	Q8	22	DC	O3'-P	11.98	1.75	1.61
11	AB	649	DC	O3'-P	11.98	1.75	1.61
11	AB	826	DC	O3'-P	11.98	1.75	1.61
11	AB	841	DC	O3'-P	11.98	1.75	1.61
11	AB	1240	DC	O3'-P	11.98	1.75	1.61
11	AB	1675	DC	O3'-P	11.98	1.75	1.61
11	AB	3827	DC	O3'-P	11.98	1.75	1.61
11	AB	3872	DC	O3'-P	11.98	1.75	1.61
11	AB	5585	DC	O3'-P	11.98	1.75	1.61
11	AB	5606	DC	O3'-P	11.98	1.75	1.61
11	AB	6182	DC	O3'-P	11.98	1.75	1.61
11	AB	6219	DC	O3'-P	11.98	1.75	1.61
46	DC	21	DC	O3'-P	11.98	1.75	1.61
54	E8	18	DC	O3'-P	11.98	1.75	1.61
90	HC	19	DC	O3'-P	11.98	1.75	1.61
125	L1	37	DC	O3'-P	11.98	1.75	1.61
11	AB	565	DC	O3'-P	11.98	1.75	1.61
11	AB	586	DC	O3'-P	11.98	1.75	1.61
11	AB	1093	DC	O3'-P	11.98	1.75	1.61
11	AB	6476	DC	O3'-P	11.98	1.75	1.61
65	F8	1	DC	O3'-P	11.98	1.75	1.61
156	O2	12	DC	O3'-P	11.98	1.75	1.61
202	SD	12	DC	O3'-P	11.98	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
72	G3	2	DC	O3'-P	11.97	1.75	1.61
82	H2	25	DC	O3'-P	11.97	1.75	1.61
160	O7	14	DC	O3'-P	11.97	1.75	1.61
171	P8	12	DC	O3'-P	11.97	1.75	1.61
186	R3	15	DC	O3'-P	11.97	1.75	1.61
227	VA	27	DC	O3'-P	11.97	1.75	1.61
11	AB	4146	DC	O3'-P	11.97	1.75	1.61
11	AB	4189	DC	O3'-P	11.97	1.75	1.61
11	AB	5936	DC	O3'-P	11.97	1.75	1.61
231	W5	14	DC	O3'-P	11.97	1.75	1.61
11	AB	1812	DC	O3'-P	11.97	1.75	1.61
11	AB	2264	DC	O3'-P	11.97	1.75	1.61
11	AB	2669	DC	O3'-P	11.97	1.75	1.61
11	AB	2742	DC	O3'-P	11.97	1.75	1.61
11	AB	3296	DC	O3'-P	11.97	1.75	1.61
11	AB	3317	DC	O3'-P	11.97	1.75	1.61
11	AB	6919	DC	O3'-P	11.97	1.75	1.61
11	AB	7188	DC	O3'-P	11.97	1.75	1.61
83	H3	2	DC	O3'-P	11.97	1.75	1.61
188	R7	31	DC	O3'-P	11.97	1.75	1.61
212	U2	17	DC	O3'-P	11.97	1.75	1.61
11	AB	2650	DC	O3'-P	11.97	1.75	1.61
11	AB	4384	DC	O3'-P	11.97	1.75	1.61
11	AB	6051	DC	O3'-P	11.97	1.75	1.61
11	AB	397	DC	O3'-P	11.97	1.75	1.61
11	AB	3515	DC	O3'-P	11.97	1.75	1.61
11	AB	3645	DC	O3'-P	11.97	1.75	1.61
11	AB	299	DC	O3'-P	11.97	1.75	1.61
11	AB	1249	DC	O3'-P	11.97	1.75	1.61
11	AB	3616	DC	O3'-P	11.97	1.75	1.61
11	AB	3950	DC	O3'-P	11.97	1.75	1.61
11	AB	4066	DC	O3'-P	11.97	1.75	1.61
11	AB	5003	DC	O3'-P	11.97	1.75	1.61
11	AB	5376	DC	O3'-P	11.97	1.75	1.61
11	AB	5380	DC	O3'-P	11.97	1.75	1.61
57	EC	16	DC	O3'-P	11.97	1.75	1.61
11	AB	4155	DC	O3'-P	11.97	1.75	1.61
11	AB	4119	DC	O3'-P	11.96	1.75	1.61
11	AB	4494	DC	O3'-P	11.96	1.75	1.61
11	AB	6103	DC	O3'-P	11.96	1.75	1.61
156	O2	8	DC	O3'-P	11.96	1.75	1.61
162	O9	18	DC	O3'-P	11.96	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A4	6	DC	O3'-P	11.96	1.75	1.61
11	AB	3294	DC	O3'-P	11.96	1.75	1.61
11	AB	3359	DC	O3'-P	11.96	1.75	1.61
11	AB	4855	DC	O3'-P	11.96	1.75	1.61
11	AB	312	DC	O3'-P	11.96	1.75	1.61
11	AB	1147	DC	O3'-P	11.96	1.75	1.61
11	AB	1420	DC	O3'-P	11.96	1.75	1.61
11	AB	1602	DC	O3'-P	11.96	1.75	1.61
11	AB	3452	DC	O3'-P	11.96	1.75	1.61
11	AB	3647	DC	O3'-P	11.96	1.75	1.61
158	O5	51	DC	O3'-P	11.96	1.75	1.61
11	AB	5861	DC	O3'-P	11.96	1.75	1.61
11	AB	7166	DC	O3'-P	11.96	1.75	1.61
11	AB	7225	DC	O3'-P	11.96	1.75	1.61
82	H2	6	DC	O3'-P	11.96	1.75	1.61
83	H3	6	DC	O3'-P	11.96	1.75	1.61
147	N3	13	DC	O3'-P	11.96	1.75	1.61
117	K5	29	DC	O3'-P	11.96	1.75	1.61
121	K9	21	DC	O3'-P	11.96	1.75	1.61
11	AB	187	DC	O3'-P	11.96	1.75	1.61
11	AB	670	DC	O3'-P	11.96	1.75	1.61
11	AB	2529	DC	O3'-P	11.96	1.75	1.61
11	AB	4938	DC	O3'-P	11.96	1.75	1.61
11	AB	5509	DC	O3'-P	11.96	1.75	1.61
54	E8	21	DC	O3'-P	11.96	1.75	1.61
11	AB	1506	DC	O3'-P	11.96	1.75	1.61
11	AB	1522	DC	O3'-P	11.96	1.75	1.61
11	AB	2015	DC	O3'-P	11.96	1.75	1.61
11	AB	2185	DC	O3'-P	11.96	1.75	1.61
11	AB	5699	DC	O3'-P	11.96	1.75	1.61
11	AB	6383	DC	O3'-P	11.96	1.75	1.61
11	AB	6712	DC	O3'-P	11.96	1.75	1.61
84	H5	36	DC	O3'-P	11.96	1.75	1.61
11	AB	91	DC	O3'-P	11.96	1.75	1.61
11	AB	2041	DC	O3'-P	11.96	1.75	1.61
11	AB	322	DC	O3'-P	11.95	1.75	1.61
11	AB	343	DC	O3'-P	11.96	1.75	1.61
11	AB	1183	DC	O3'-P	11.96	1.75	1.61
11	AB	6533	DC	O3'-P	11.96	1.75	1.61
11	AB	559	DC	O3'-P	11.95	1.75	1.61
11	AB	6909	DC	O3'-P	11.96	1.75	1.61
30	C6	26	DC	O3'-P	11.96	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
141	M8	27	DC	O3'-P	11.96	1.75	1.61
181	Q9	7	DC	O3'-P	11.96	1.75	1.61
219	UC	6	DC	O3'-P	11.96	1.75	1.61
6	A6	14	DC	O3'-P	11.95	1.75	1.61
11	AB	48	DC	O3'-P	11.95	1.75	1.61
11	AB	280	DC	O3'-P	11.95	1.75	1.61
11	AB	5511	DC	O3'-P	11.95	1.75	1.61
11	AB	5789	DC	O3'-P	11.95	1.75	1.61
11	AB	433	DC	O3'-P	11.95	1.75	1.61
11	AB	448	DC	O3'-P	11.95	1.75	1.61
11	AB	904	DC	O3'-P	11.95	1.75	1.61
11	AB	919	DC	O3'-P	11.95	1.75	1.61
11	AB	1162	DC	O3'-P	11.95	1.75	1.61
11	AB	1353	DC	O3'-P	11.95	1.75	1.61
31	C7	17	DC	O3'-P	11.95	1.75	1.61
11	AB	1502	DC	O3'-P	11.95	1.75	1.61
11	AB	3556	DC	O3'-P	11.95	1.75	1.61
11	AB	4647	DC	O3'-P	11.95	1.75	1.61
11	AB	4712	DC	O3'-P	11.95	1.75	1.61
11	AB	4829	DC	O3'-P	11.95	1.75	1.61
11	AB	6118	DC	O3'-P	11.95	1.75	1.61
11	AB	6551	DC	O3'-P	11.95	1.75	1.61
11	AB	6555	DC	O3'-P	11.95	1.75	1.61
55	E9	23	DC	O3'-P	11.95	1.75	1.61
82	H2	44	DC	O3'-P	11.95	1.75	1.61
100	IA	11	DC	O3'-P	11.95	1.75	1.61
11	AB	782	DC	O3'-P	11.95	1.75	1.61
11	AB	1670	DC	O3'-P	11.95	1.75	1.61
11	AB	1915	DC	O3'-P	11.95	1.75	1.61
11	AB	3011	DC	O3'-P	11.95	1.75	1.61
11	AB	5663	DC	O3'-P	11.95	1.75	1.61
11	AB	5996	DC	O3'-P	11.95	1.75	1.61
11	AB	6547	DC	O3'-P	11.95	1.75	1.61
11	AB	6978	DC	O3'-P	11.95	1.75	1.61
11	AB	2960	DC	O3'-P	11.95	1.75	1.61
11	AB	3977	DC	O3'-P	11.95	1.75	1.61
11	AB	4502	DC	O3'-P	11.95	1.75	1.61
11	AB	5499	DC	O3'-P	11.95	1.75	1.61
11	AB	5918	DC	O3'-P	11.95	1.75	1.61
11	AB	7237	DC	O3'-P	11.95	1.75	1.61
127	L3	5	DC	O3'-P	11.95	1.75	1.61
141	M8	19	DC	O3'-P	11.95	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
215	U7	12	DC	O3'-P	11.95	1.75	1.61
230	W3	31	DC	O3'-P	11.95	1.75	1.61
11	AB	778	DC	O3'-P	11.95	1.75	1.61
11	AB	2497	DC	O3'-P	11.95	1.75	1.61
17	B4	20	DC	O3'-P	11.95	1.75	1.61
37	D1	37	DC	O3'-P	11.95	1.75	1.61
154	NC	32	DC	O3'-P	11.95	1.75	1.61
214	U5	10	DC	O3'-P	11.95	1.75	1.61
11	AB	2332	DC	O3'-P	11.94	1.75	1.61
11	AB	4287	DC	O3'-P	11.94	1.75	1.61
117	K5	10	DC	O3'-P	11.95	1.75	1.61
122	KA	8	DC	O3'-P	11.94	1.75	1.61
162	O9	8	DC	O3'-P	11.94	1.75	1.61
181	Q9	22	DC	O3'-P	11.95	1.75	1.61
2	A2	14	DC	O3'-P	11.94	1.75	1.61
11	AB	664	DC	O3'-P	11.94	1.75	1.61
11	AB	4401	DC	O3'-P	11.94	1.75	1.61
11	AB	4733	DC	O3'-P	11.94	1.75	1.61
11	AB	694	DC	O3'-P	11.94	1.75	1.61
11	AB	1884	DC	O3'-P	11.94	1.75	1.61
11	AB	2383	DC	O3'-P	11.94	1.75	1.61
11	AB	2645	DC	O3'-P	11.94	1.75	1.61
11	AB	3450	DC	O3'-P	11.94	1.75	1.61
11	AB	5459	DC	O3'-P	11.94	1.75	1.61
151	N8	7	DC	O3'-P	11.94	1.75	1.61
11	AB	175	DC	O3'-P	11.94	1.75	1.61
11	AB	519	DC	O3'-P	11.94	1.75	1.61
11	AB	853	DC	O3'-P	11.94	1.75	1.61
11	AB	3902	DC	O3'-P	11.94	1.75	1.61
11	AB	5828	DC	O3'-P	11.94	1.75	1.61
11	AB	6196	DC	O3'-P	11.94	1.75	1.61
11	AB	5853	DC	O3'-P	11.94	1.75	1.61
11	AB	6053	DC	O3'-P	11.94	1.75	1.61
11	AB	6284	DC	O3'-P	11.94	1.75	1.61
11	AB	6637	DC	O3'-P	11.94	1.75	1.61
20	B7	19	DC	O3'-P	11.94	1.75	1.61
59	F1	11	DC	O3'-P	11.94	1.75	1.61
85	H6	24	DC	O3'-P	11.94	1.75	1.61
148	N5	24	DC	O3'-P	11.94	1.75	1.61
11	AB	594	DC	O3'-P	11.94	1.75	1.61
11	AB	679	DC	O3'-P	11.94	1.75	1.61
11	AB	934	DC	O3'-P	11.94	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2897	DC	O3'-P	11.94	1.75	1.61
11	AB	3146	DC	O3'-P	11.94	1.75	1.61
11	AB	6903	DC	O3'-P	11.94	1.75	1.61
126	L2	8	DC	O3'-P	11.94	1.75	1.61
189	R8	8	DC	O3'-P	11.94	1.75	1.61
11	AB	529	DC	O3'-P	11.94	1.75	1.61
11	AB	712	DC	O3'-P	11.94	1.75	1.61
11	AB	835	DC	O3'-P	11.94	1.75	1.61
11	AB	4592	DC	O3'-P	11.94	1.75	1.61
73	G5	3	DC	O3'-P	11.94	1.75	1.61
110	J9	21	DC	O3'-P	11.94	1.75	1.61
205	T5	18	DC	O3'-P	11.94	1.75	1.61
227	VA	8	DC	O3'-P	11.94	1.75	1.61
11	AB	1499	DC	O3'-P	11.93	1.75	1.61
11	AB	5963	DC	O3'-P	11.93	1.75	1.61
11	AB	1598	DC	O3'-P	11.93	1.75	1.61
11	AB	3320	DC	O3'-P	11.93	1.75	1.61
11	AB	4594	DC	O3'-P	11.93	1.75	1.61
11	AB	6155	DC	O3'-P	11.93	1.75	1.61
31	C7	6	DC	O3'-P	11.93	1.75	1.61
138	M5	30	DC	O3'-P	11.93	1.75	1.61
159	O6	16	DC	O3'-P	11.93	1.75	1.61
195	S3	3	DC	O3'-P	11.93	1.75	1.61
11	AB	416	DC	O3'-P	11.93	1.75	1.61
11	AB	1436	DC	O3'-P	11.93	1.75	1.61
11	AB	1872	DC	O3'-P	11.93	1.75	1.61
11	AB	2147	DC	O3'-P	11.93	1.75	1.61
11	AB	6276	DC	O3'-P	11.93	1.75	1.61
84	H5	29	DC	O3'-P	11.93	1.75	1.61
2	A2	21	DC	O3'-P	11.93	1.75	1.61
11	AB	1041	DC	O3'-P	11.93	1.75	1.61
11	AB	6470	DC	O3'-P	11.93	1.75	1.61
139	M6	5	DC	O3'-P	11.93	1.75	1.61
156	O2	33	DC	O3'-P	11.93	1.75	1.61
11	AB	1054	DC	O3'-P	11.93	1.75	1.61
11	AB	1626	DC	O3'-P	11.93	1.75	1.61
11	AB	2059	DC	O3'-P	11.93	1.75	1.61
11	AB	2437	DC	O3'-P	11.93	1.75	1.61
11	AB	3143	DC	O3'-P	11.93	1.75	1.61
11	AB	3260	DC	O3'-P	11.93	1.75	1.61
11	AB	4172	DC	O3'-P	11.93	1.75	1.61
11	AB	5939	DC	O3'-P	11.93	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6888	DC	O3'-P	11.93	1.75	1.61
11	AB	7118	DC	O3'-P	11.93	1.75	1.61
41	D6	36	DC	O3'-P	11.93	1.75	1.61
60	F2	7	DC	O3'-P	11.93	1.75	1.61
164	OC	8	DC	O3'-P	11.93	1.75	1.61
4	A4	17	DC	O3'-P	11.93	1.75	1.61
11	AB	1771	DC	O3'-P	11.93	1.75	1.61
11	AB	5589	DC	O3'-P	11.93	1.75	1.61
11	AB	4626	DC	O3'-P	11.93	1.75	1.61
11	AB	5696	DC	O3'-P	11.93	1.75	1.61
11	AB	7149	DC	O3'-P	11.93	1.75	1.61
11	AB	6614	DC	O3'-P	11.93	1.75	1.61
11	AB	7229	DC	O3'-P	11.93	1.75	1.61
83	H3	16	DC	O3'-P	11.93	1.75	1.61
143	MA	32	DC	O3'-P	11.93	1.75	1.61
198	S8	37	DC	O3'-P	11.93	1.75	1.61
206	T7	3	DC	O3'-P	11.93	1.75	1.61
11	AB	538	DC	O3'-P	11.92	1.75	1.61
11	AB	1579	DC	O3'-P	11.92	1.75	1.61
11	AB	4922	DC	O3'-P	11.92	1.75	1.61
14	B1	34	DC	O3'-P	11.92	1.75	1.61
41	D6	45	DC	O3'-P	11.92	1.75	1.61
11	AB	2611	DC	O3'-P	11.92	1.75	1.61
11	AB	3425	DC	O3'-P	11.92	1.75	1.61
11	AB	3923	DC	O3'-P	11.92	1.75	1.61
11	AB	4690	DC	O3'-P	11.92	1.75	1.61
11	AB	4948	DC	O3'-P	11.92	1.75	1.61
214	U5	22	DC	O3'-P	11.92	1.75	1.61
11	AB	5110	DC	O3'-P	11.92	1.75	1.61
11	AB	6359	DC	O3'-P	11.92	1.75	1.61
11	AB	6840	DC	O3'-P	11.92	1.75	1.61
208	T9	21	DC	O3'-P	11.92	1.75	1.61
11	AB	472	DC	O3'-P	11.92	1.75	1.61
11	AB	544	DC	O3'-P	11.92	1.75	1.61
11	AB	4500	DC	O3'-P	11.92	1.75	1.61
69	FD	32	DC	O3'-P	11.92	1.75	1.61
93	I2	26	DC	O3'-P	11.92	1.75	1.61
125	L1	41	DC	O3'-P	11.92	1.75	1.61
187	R5	31	DC	O3'-P	11.92	1.75	1.61
208	T9	18	DC	O3'-P	11.92	1.75	1.61
11	AB	2260	DC	O3'-P	11.92	1.75	1.61
11	AB	6231	DC	O3'-P	11.92	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
122	KA	42	DC	O3'-P	11.92	1.75	1.61
11	AB	505	DC	O3'-P	11.91	1.75	1.61
11	AB	1210	DC	O3'-P	11.91	1.75	1.61
11	AB	1786	DC	O3'-P	11.91	1.75	1.61
11	AB	2609	DC	O3'-P	11.91	1.75	1.61
11	AB	2638	DC	O3'-P	11.91	1.75	1.61
11	AB	4039	DC	O3'-P	11.91	1.75	1.61
11	AB	6855	DC	O3'-P	11.91	1.75	1.61
11	AB	7161	DC	O3'-P	11.91	1.75	1.61
65	F8	12	DC	O3'-P	11.91	1.75	1.61
88	H9	12	DC	O3'-P	11.91	1.75	1.61
107	J6	23	DC	O3'-P	11.91	1.75	1.61
108	J7	51	DC	O3'-P	11.91	1.75	1.61
111	JA	18	DC	O3'-P	11.91	1.75	1.61
160	O7	21	DC	O3'-P	11.91	1.75	1.61
11	AB	463	DC	O3'-P	11.91	1.75	1.61
11	AB	1630	DC	O3'-P	11.91	1.75	1.61
11	AB	3713	DC	O3'-P	11.91	1.75	1.61
11	AB	3910	DC	O3'-P	11.91	1.75	1.61
122	KA	46	DC	O3'-P	11.91	1.75	1.61
11	AB	4694	DC	O3'-P	11.91	1.75	1.61
119	K7	40	DC	O3'-P	11.91	1.75	1.61
11	AB	764	DC	O3'-P	11.91	1.75	1.61
11	AB	1000	DC	O3'-P	11.91	1.75	1.61
11	AB	1707	DC	O3'-P	11.91	1.75	1.61
11	AB	1867	DC	O3'-P	11.91	1.75	1.61
11	AB	5478	DC	O3'-P	11.91	1.75	1.61
11	AB	6016	DC	O3'-P	11.91	1.75	1.61
11	AB	4490	DC	O3'-P	11.91	1.75	1.61
11	AB	4810	DC	O3'-P	11.91	1.75	1.61
11	AB	5825	DC	O3'-P	11.91	1.75	1.61
21	B8	3	DC	O3'-P	11.91	1.75	1.61
75	G7	6	DC	O3'-P	11.91	1.75	1.61
104	J2	27	DC	O3'-P	11.91	1.75	1.61
195	S3	11	DC	O3'-P	11.91	1.75	1.61
11	AB	769	DC	O3'-P	11.91	1.75	1.61
11	AB	889	DC	O3'-P	11.91	1.75	1.61
11	AB	1655	DC	O3'-P	11.91	1.75	1.61
11	AB	7000	DC	O3'-P	11.91	1.75	1.61
11	AB	7147	DC	O3'-P	11.91	1.75	1.61
37	D1	1	DC	O3'-P	11.91	1.75	1.61
99	I9	18	DC	O3'-P	11.91	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
176	Q2	11	DC	O3'-P	11.91	1.75	1.61
11	AB	1662	DC	O3'-P	11.91	1.75	1.61
11	AB	6105	DC	O3'-P	11.91	1.75	1.61
139	M6	10	DC	O3'-P	11.91	1.75	1.61
214	U5	18	DC	O3'-P	11.91	1.75	1.61
11	AB	118	DC	O3'-P	11.90	1.75	1.61
51	E5	12	DC	O3'-P	11.90	1.75	1.61
11	AB	3665	DC	O3'-P	11.90	1.75	1.61
11	AB	4504	DC	O3'-P	11.90	1.75	1.61
11	AB	5626	DC	O3'-P	11.90	1.75	1.61
119	K7	33	DC	O3'-P	11.90	1.75	1.61
187	R5	39	DC	O3'-P	11.90	1.75	1.61
220	UD	22	DC	O3'-P	11.90	1.75	1.61
11	AB	6194	DC	O3'-P	11.90	1.75	1.61
74	G6	36	DC	O3'-P	11.90	1.75	1.61
104	J2	30	DC	O3'-P	11.90	1.75	1.61
109	J8	47	DC	O3'-P	11.90	1.75	1.61
11	AB	469	DC	O3'-P	11.90	1.75	1.61
11	AB	2317	DC	O3'-P	11.90	1.75	1.61
11	AB	4668	DC	O3'-P	11.90	1.75	1.61
11	AB	6224	DC	O3'-P	11.90	1.75	1.61
164	OC	6	DC	O3'-P	11.90	1.75	1.61
11	AB	6988	DC	O3'-P	11.90	1.75	1.61
11	AB	198	DC	O3'-P	11.90	1.75	1.61
11	AB	605	DC	O3'-P	11.90	1.75	1.61
11	AB	4673	DC	O3'-P	11.90	1.75	1.61
11	AB	4785	DC	O3'-P	11.90	1.75	1.61
11	AB	5075	DC	O3'-P	11.90	1.75	1.61
11	AB	5989	DC	O3'-P	11.90	1.75	1.61
212	U2	26	DC	O3'-P	11.90	1.75	1.61
75	G7	15	DC	O3'-P	11.90	1.75	1.61
160	O7	31	DC	O3'-P	11.90	1.75	1.61
174	PC	8	DC	O3'-P	11.90	1.75	1.61
224	V7	12	DC	O3'-P	11.90	1.75	1.61
11	AB	500	DC	O3'-P	11.89	1.75	1.61
11	AB	662	DC	O3'-P	11.89	1.75	1.61
86	H7	6	DC	O3'-P	11.89	1.75	1.61
92	I1	18	DC	O3'-P	11.89	1.75	1.61
11	AB	128	DC	O3'-P	11.89	1.75	1.61
11	AB	3047	DC	O3'-P	11.89	1.75	1.61
11	AB	3113	DC	O3'-P	11.89	1.75	1.61
11	AB	4899	DC	O3'-P	11.89	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5631	DC	O3'-P	11.89	1.75	1.61
74	G6	13	DC	O3'-P	11.89	1.75	1.61
209	TA	41	DC	O3'-P	11.89	1.75	1.61
11	AB	5831	DC	O3'-P	11.89	1.75	1.61
11	AB	6466	DC	O3'-P	11.89	1.75	1.61
13	AD	34	DC	O3'-P	11.89	1.75	1.61
84	H5	25	DC	O3'-P	11.89	1.75	1.61
115	K2	21	DC	O3'-P	11.89	1.75	1.61
145	MD	25	DC	O3'-P	11.89	1.75	1.61
197	S7	8	DC	O3'-P	11.89	1.75	1.61
219	UC	25	DC	O3'-P	11.89	1.75	1.61
5	A5	15	DC	O3'-P	11.89	1.75	1.61
62	F5	43	DC	O3'-P	11.89	1.75	1.61
117	K5	13	DC	O3'-P	11.89	1.75	1.61
11	AB	308	DC	O3'-P	11.89	1.75	1.61
11	AB	865	DC	O3'-P	11.89	1.75	1.61
11	AB	1743	DC	O3'-P	11.89	1.75	1.61
11	AB	2392	DC	O3'-P	11.89	1.75	1.61
11	AB	2398	DC	O3'-P	11.89	1.75	1.61
11	AB	3964	DC	O3'-P	11.89	1.75	1.61
11	AB	5146	DC	O3'-P	11.89	1.75	1.61
11	AB	6065	DC	O3'-P	11.89	1.75	1.61
11	AB	6703	DC	O3'-P	11.89	1.75	1.61
102	ID	13	DC	O3'-P	11.89	1.75	1.61
171	P8	14	DC	O3'-P	11.89	1.75	1.61
197	S7	15	DC	O3'-P	11.89	1.75	1.61
1	A1	7	DC	O3'-P	11.89	1.75	1.61
11	AB	355	DC	O3'-P	11.89	1.75	1.61
11	AB	4569	DC	O3'-P	11.89	1.75	1.61
11	AB	7013	DC	O3'-P	11.89	1.75	1.61
11	AB	2152	DC	O3'-P	11.89	1.75	1.61
11	AB	3943	DC	O3'-P	11.89	1.75	1.61
11	AB	4159	DC	O3'-P	11.89	1.75	1.61
11	AB	4526	DC	O3'-P	11.89	1.75	1.61
11	AB	4840	DC	O3'-P	11.89	1.75	1.61
11	AB	6202	DC	O3'-P	11.89	1.75	1.61
32	C8	48	DC	O3'-P	11.89	1.75	1.61
54	E8	29	DC	O3'-P	11.89	1.75	1.61
126	L2	29	DC	O3'-P	11.89	1.75	1.61
203	T2	11	DC	O3'-P	11.89	1.75	1.61
11	AB	837	DC	O3'-P	11.88	1.75	1.61
11	AB	902	DC	O3'-P	11.88	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1586	DC	O3'-P	11.88	1.75	1.61
11	AB	2136	DC	O3'-P	11.89	1.75	1.61
11	AB	1714	DC	O3'-P	11.88	1.75	1.61
11	AB	2230	DC	O3'-P	11.88	1.75	1.61
11	AB	2879	DC	O3'-P	11.88	1.75	1.61
11	AB	4168	DC	O3'-P	11.88	1.75	1.61
11	AB	5218	DC	O3'-P	11.88	1.75	1.61
11	AB	5549	DC	O3'-P	11.88	1.75	1.61
11	AB	5757	DC	O3'-P	11.89	1.75	1.61
11	AB	6139	DC	O3'-P	11.88	1.75	1.61
19	B6	22	DC	O3'-P	11.89	1.75	1.61
27	C2	7	DC	O3'-P	11.89	1.75	1.61
11	AB	6464	DC	O3'-P	11.88	1.75	1.61
11	AB	6835	DC	O3'-P	11.88	1.75	1.61
50	E3	15	DC	O3'-P	11.88	1.75	1.61
67	FA	19	DC	O3'-P	11.88	1.75	1.61
116	K3	21	DC	O3'-P	11.88	1.75	1.61
11	AB	490	DC	O3'-P	11.88	1.75	1.61
11	AB	887	DC	O3'-P	11.88	1.75	1.61
11	AB	1475	DC	O3'-P	11.88	1.75	1.61
11	AB	1581	DC	O3'-P	11.88	1.75	1.61
11	AB	3835	DC	O3'-P	11.88	1.75	1.61
11	AB	5476	DC	O3'-P	11.88	1.75	1.61
11	AB	6866	DC	O3'-P	11.88	1.75	1.61
48	E1	9	DC	O3'-P	11.88	1.75	1.61
11	AB	6147	DC	O3'-P	11.88	1.75	1.61
11	AB	7131	DC	O3'-P	11.88	1.75	1.61
43	D8	27	DC	O3'-P	11.88	1.75	1.61
48	E1	32	DC	O3'-P	11.88	1.75	1.61
107	J6	27	DC	O3'-P	11.88	1.75	1.61
115	K2	29	DC	O3'-P	11.88	1.75	1.61
117	K5	48	DC	O3'-P	11.88	1.75	1.61
122	KA	31	DC	O3'-P	11.88	1.75	1.61
147	N3	10	DC	O3'-P	11.88	1.75	1.61
149	N6	47	DC	O3'-P	11.88	1.75	1.61
174	PC	12	DC	O3'-P	11.88	1.75	1.61
223	V5	11	DC	O3'-P	11.88	1.75	1.61
225	V8	26	DC	O3'-P	11.88	1.75	1.61
235	WD	8	DC	O3'-P	11.88	1.75	1.61
11	AB	263	DC	O3'-P	11.88	1.75	1.61
11	AB	370	DC	O3'-P	11.88	1.75	1.61
11	AB	295	DC	O3'-P	11.88	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	517	DC	O3'-P	11.88	1.75	1.61
11	AB	2329	DC	O3'-P	11.88	1.75	1.61
11	AB	3374	DC	O3'-P	11.88	1.75	1.61
11	AB	4692	DC	O3'-P	11.88	1.75	1.61
11	AB	5765	DC	O3'-P	11.88	1.75	1.61
11	AB	6392	DC	O3'-P	11.88	1.75	1.61
65	F8	4	DC	O3'-P	11.88	1.75	1.61
11	AB	6395	DC	O3'-P	11.88	1.75	1.61
200	SA	27	DC	O3'-P	11.88	1.75	1.61
11	AB	2224	DC	O3'-P	11.88	1.75	1.61
11	AB	4382	DC	O3'-P	11.88	1.75	1.61
89	HA	33	DC	O3'-P	11.88	1.75	1.61
165	OD	56	DC	O3'-P	11.88	1.75	1.61
227	VA	3	DC	O3'-P	11.88	1.75	1.61
232	W7	20	DC	O3'-P	11.88	1.75	1.61
11	AB	4217	DC	O3'-P	11.87	1.75	1.61
11	AB	5759	DC	O3'-P	11.87	1.75	1.61
11	AB	6538	DC	O3'-P	11.87	1.75	1.61
78	GA	16	DC	O3'-P	11.87	1.75	1.61
89	HA	22	DC	O3'-P	11.87	1.75	1.61
149	N6	19	DC	O3'-P	11.87	1.75	1.61
1	A1	34	DC	O3'-P	11.87	1.75	1.61
10	AA	12	DC	O3'-P	11.87	1.75	1.61
11	AB	4615	DC	O3'-P	11.87	1.75	1.61
11	AB	4913	DC	O3'-P	11.87	1.75	1.61
30	C6	19	DC	O3'-P	11.87	1.75	1.61
109	J8	15	DC	O3'-P	11.87	1.75	1.61
11	AB	877	DC	O3'-P	11.87	1.75	1.61
11	AB	1277	DC	O3'-P	11.87	1.75	1.61
11	AB	1600	DC	O3'-P	11.87	1.75	1.61
11	AB	1624	DC	O3'-P	11.87	1.75	1.61
11	AB	2647	DC	O3'-P	11.87	1.75	1.61
11	AB	4203	DC	O3'-P	11.87	1.75	1.61
11	AB	4983	DC	O3'-P	11.87	1.75	1.61
11	AB	6827	DC	O3'-P	11.87	1.75	1.61
54	E8	6	DC	O3'-P	11.87	1.75	1.61
109	J8	3	DC	O3'-P	11.87	1.75	1.61
148	N5	14	DC	O3'-P	11.87	1.75	1.61
232	W7	25	DC	O3'-P	11.87	1.75	1.61
236	X5	7	DC	O3'-P	11.87	1.75	1.61
11	AB	1230	DC	O3'-P	11.87	1.75	1.61
11	AB	2881	DC	O3'-P	11.87	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4261	DC	O3'-P	11.87	1.75	1.61
11	AB	5059	DC	O3'-P	11.87	1.75	1.61
11	AB	5161	DC	O3'-P	11.87	1.75	1.61
11	AB	5624	DC	O3'-P	11.87	1.75	1.61
11	AB	5678	DC	O3'-P	11.87	1.75	1.61
11	AB	5750	DC	O3'-P	11.87	1.75	1.61
23	BA	24	DC	O3'-P	11.87	1.75	1.61
68	FC	18	DC	O3'-P	11.87	1.75	1.61
79	GC	25	DC	O3'-P	11.87	1.75	1.61
90	HC	10	DC	O3'-P	11.87	1.75	1.61
104	J2	32	DC	O3'-P	11.87	1.75	1.61
117	K5	23	DC	O3'-P	11.87	1.75	1.61
11	AB	3169	DC	O3'-P	11.87	1.75	1.61
11	AB	3641	DC	O3'-P	11.87	1.75	1.61
11	AB	3839	DC	O3'-P	11.87	1.75	1.61
11	AB	5773	DC	O3'-P	11.87	1.75	1.61
11	AB	6706	DC	O3'-P	11.87	1.75	1.61
11	AB	7139	DC	O3'-P	11.87	1.75	1.61
64	F7	7	DC	O3'-P	11.87	1.75	1.61
30	C6	23	DC	O3'-P	11.87	1.75	1.61
36	CD	23	DC	O3'-P	11.87	1.75	1.61
93	I2	9	DC	O3'-P	11.87	1.75	1.61
204	T3	26	DC	O3'-P	11.87	1.75	1.61
228	VC	20	DC	O3'-P	11.87	1.75	1.61
11	AB	2275	DC	O3'-P	11.87	1.75	1.61
11	AB	3187	DC	O3'-P	11.87	1.75	1.61
11	AB	4164	DC	O3'-P	11.87	1.75	1.61
11	AB	3919	DC	O3'-P	11.86	1.75	1.61
11	AB	4792	DC	O3'-P	11.86	1.75	1.61
11	AB	5705	DC	O3'-P	11.87	1.75	1.61
41	D6	20	DC	O3'-P	11.87	1.75	1.61
45	DA	25	DC	O3'-P	11.87	1.75	1.61
118	K6	11	DC	O3'-P	11.87	1.75	1.61
143	MA	47	DC	O3'-P	11.87	1.75	1.61
202	SD	19	DC	O3'-P	11.87	1.75	1.61
143	MA	18	DC	O3'-P	11.86	1.75	1.61
178	Q5	22	DC	O3'-P	11.86	1.75	1.61
184	QD	15	DC	O3'-P	11.86	1.75	1.61
206	T7	30	DC	O3'-P	11.87	1.75	1.61
214	U5	15	DC	O3'-P	11.87	1.75	1.61
11	AB	79	DC	O3'-P	11.86	1.75	1.61
11	AB	2253	DC	O3'-P	11.86	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3968	DC	O3'-P	11.86	1.75	1.61
11	AB	4205	DC	O3'-P	11.86	1.75	1.61
11	AB	4888	DC	O3'-P	11.86	1.75	1.61
11	AB	5451	DC	O3'-P	11.86	1.75	1.61
22	B9	43	DC	O3'-P	11.86	1.75	1.61
11	AB	6602	DC	O3'-P	11.86	1.75	1.61
47	DD	11	DC	O3'-P	11.86	1.75	1.61
96	I6	15	DC	O3'-P	11.86	1.75	1.61
156	O2	2	DC	O3'-P	11.86	1.75	1.61
7	A7	37	DC	O3'-P	11.86	1.75	1.61
11	AB	4877	DC	O3'-P	11.86	1.75	1.61
11	AB	5431	DC	O3'-P	11.86	1.75	1.61
61	F3	4	DC	O3'-P	11.86	1.75	1.61
11	AB	5985	DC	O3'-P	11.86	1.75	1.61
11	AB	6190	DC	O3'-P	11.86	1.75	1.61
11	AB	6371	DC	O3'-P	11.86	1.75	1.61
60	F2	2	DC	O3'-P	11.86	1.75	1.61
95	I5	3	DC	O3'-P	11.86	1.75	1.61
97	I7	28	DC	O3'-P	11.86	1.75	1.61
99	I9	3	DC	O3'-P	11.86	1.75	1.61
158	O5	14	DC	O3'-P	11.86	1.75	1.61
213	U3	22	DC	O3'-P	11.86	1.75	1.61
11	AB	1343	DC	O3'-P	11.86	1.75	1.61
11	AB	1485	DC	O3'-P	11.86	1.75	1.61
11	AB	2346	DC	O3'-P	11.86	1.75	1.61
43	D8	10	DC	O3'-P	11.86	1.75	1.61
44	D9	1	DC	O3'-P	11.86	1.75	1.61
49	E2	2	DC	O3'-P	11.86	1.75	1.61
209	TA	34	DC	O3'-P	11.86	1.75	1.61
231	W5	32	DC	O3'-P	11.86	1.75	1.61
11	AB	1466	DC	O3'-P	11.85	1.75	1.61
11	AB	6289	DC	O3'-P	11.85	1.75	1.61
58	ED	17	DC	O3'-P	11.85	1.75	1.61
147	N3	21	DC	O3'-P	11.85	1.75	1.61
11	AB	643	DC	O3'-P	11.85	1.75	1.61
11	AB	1833	DC	O3'-P	11.85	1.75	1.61
11	AB	3470	DC	O3'-P	11.85	1.75	1.61
11	AB	6005	DC	O3'-P	11.85	1.75	1.61
149	N6	7	DC	O3'-P	11.85	1.75	1.61
22	B9	38	DC	O3'-P	11.85	1.75	1.61
52	E6	24	DC	O3'-P	11.85	1.75	1.61
118	K6	16	DC	O3'-P	11.85	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
151	N8	9	DC	O3'-P	11.85	1.75	1.61
165	OD	44	DC	O3'-P	11.85	1.75	1.61
184	QD	2	DC	O3'-P	11.85	1.75	1.61
234	W9	10	DC	O3'-P	11.85	1.75	1.61
11	AB	612	DC	O3'-P	11.85	1.75	1.61
11	AB	3023	DC	O3'-P	11.85	1.75	1.61
11	AB	636	DC	O3'-P	11.85	1.75	1.61
11	AB	1270	DC	O3'-P	11.85	1.75	1.61
11	AB	2936	DC	O3'-P	11.85	1.75	1.61
11	AB	6618	DC	O3'-P	11.85	1.75	1.61
11	AB	6876	DC	O3'-P	11.85	1.75	1.61
13	AD	18	DC	O3'-P	11.85	1.75	1.61
112	JC	6	DC	O3'-P	11.85	1.75	1.61
3	A3	2	DC	O3'-P	11.85	1.75	1.61
11	AB	721	DC	O3'-P	11.85	1.75	1.61
11	AB	1078	DC	O3'-P	11.85	1.75	1.61
11	AB	3454	DC	O3'-P	11.85	1.75	1.61
11	AB	4250	DC	O3'-P	11.85	1.75	1.61
11	AB	6113	DC	O3'-P	11.85	1.75	1.61
11	AB	6659	DC	O3'-P	11.85	1.75	1.61
11	AB	6951	DC	O3'-P	11.85	1.75	1.61
13	AD	29	DC	O3'-P	11.85	1.75	1.61
32	C8	30	DC	O3'-P	11.85	1.75	1.61
146	N2	15	DC	O3'-P	11.85	1.75	1.61
169	P6	20	DC	O3'-P	11.85	1.75	1.61
45	DA	7	DC	O3'-P	11.84	1.75	1.61
11	AB	2664	DC	O3'-P	11.84	1.75	1.61
11	AB	2969	DC	O3'-P	11.84	1.75	1.61
11	AB	3263	DC	O3'-P	11.84	1.75	1.61
11	AB	6025	DC	O3'-P	11.84	1.75	1.61
11	AB	237	DC	O3'-P	11.84	1.75	1.61
11	AB	1614	DC	O3'-P	11.84	1.75	1.61
11	AB	2658	DC	O3'-P	11.84	1.75	1.61
11	AB	4530	DC	O3'-P	11.84	1.75	1.61
104	J2	37	DC	O3'-P	11.84	1.75	1.61
11	AB	5722	DC	O3'-P	11.84	1.75	1.61
64	F7	17	DC	O3'-P	11.84	1.75	1.61
215	U7	7	DC	O3'-P	11.84	1.75	1.61
11	AB	2277	DC	O3'-P	11.84	1.75	1.61
11	AB	2446	DC	O3'-P	11.84	1.75	1.61
11	AB	3560	DC	O3'-P	11.84	1.75	1.61
11	AB	4108	DC	O3'-P	11.84	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6082	DC	O3'-P	11.84	1.75	1.61
11	AB	6381	DC	O3'-P	11.84	1.75	1.61
18	B5	6	DC	O3'-P	11.84	1.75	1.61
77	G9	1	DC	O3'-P	11.84	1.75	1.61
88	H9	5	DC	O3'-P	11.84	1.75	1.61
93	I2	13	DC	O3'-P	11.84	1.75	1.61
11	AB	848	DC	O3'-P	11.84	1.75	1.61
11	AB	3898	DC	O3'-P	11.84	1.75	1.61
11	AB	4452	DC	O3'-P	11.84	1.75	1.61
11	AB	5513	DC	O3'-P	11.84	1.75	1.61
11	AB	6742	DC	O3'-P	11.84	1.75	1.61
32	C8	40	DC	O3'-P	11.84	1.75	1.61
46	DC	18	DC	O3'-P	11.84	1.75	1.61
124	KD	14	DC	O3'-P	11.84	1.75	1.61
156	O2	23	DC	O3'-P	11.84	1.75	1.61
156	O2	5	DC	O3'-P	11.84	1.75	1.61
189	R8	19	DC	O3'-P	11.84	1.75	1.61
37	D1	26	DC	O3'-P	11.83	1.75	1.61
54	E8	35	DC	O3'-P	11.83	1.75	1.61
138	M5	2	DC	O3'-P	11.83	1.75	1.61
138	M5	4	DC	O3'-P	11.83	1.75	1.61
11	AB	3270	DC	O3'-P	11.83	1.75	1.61
11	AB	3718	DC	O3'-P	11.83	1.75	1.61
11	AB	5143	DC	O3'-P	11.83	1.75	1.61
11	AB	6961	DC	O3'-P	11.83	1.75	1.61
11	AB	7085	DC	O3'-P	11.83	1.75	1.61
60	F2	34	DC	O3'-P	11.83	1.75	1.61
77	G9	12	DC	O3'-P	11.83	1.75	1.61
156	O2	50	DC	O3'-P	11.83	1.75	1.61
192	RC	23	DC	O3'-P	11.83	1.75	1.61
11	AB	677	DC	O3'-P	11.83	1.75	1.61
11	AB	1856	DC	O3'-P	11.83	1.75	1.61
62	F5	33	DC	O3'-P	11.83	1.75	1.61
11	AB	3254	DC	O3'-P	11.83	1.75	1.61
81	H1	10	DC	O3'-P	11.83	1.75	1.61
128	L5	11	DC	O3'-P	11.83	1.75	1.61
11	AB	229	DC	O3'-P	11.83	1.75	1.61
11	AB	250	DC	O3'-P	11.83	1.75	1.61
11	AB	813	DC	O3'-P	11.83	1.75	1.61
11	AB	819	DC	O3'-P	11.83	1.75	1.61
11	AB	3462	DC	O3'-P	11.83	1.75	1.61
11	AB	4999	DC	O3'-P	11.83	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
96	I6	18	DC	O3'-P	11.83	1.75	1.61
205	T5	8	DC	O3'-P	11.83	1.75	1.61
223	V5	26	DC	O3'-P	11.83	1.75	1.61
11	AB	5716	DC	O3'-P	11.83	1.75	1.61
61	F3	21	DC	O3'-P	11.83	1.75	1.61
75	G7	3	DC	O3'-P	11.83	1.75	1.61
80	GD	5	DC	O3'-P	11.83	1.75	1.61
120	K8	21	DC	O3'-P	11.83	1.75	1.61
193	RD	5	DC	O3'-P	11.83	1.75	1.61
4	A4	14	DC	O3'-P	11.82	1.75	1.61
11	AB	169	DC	O3'-P	11.82	1.75	1.61
11	AB	3936	DC	O3'-P	11.82	1.75	1.61
11	AB	4391	DC	O3'-P	11.82	1.75	1.61
11	AB	4851	DC	O3'-P	11.82	1.75	1.61
11	AB	6953	DC	O3'-P	11.82	1.75	1.61
11	AB	7239	DC	O3'-P	11.82	1.75	1.61
43	D8	31	DC	O3'-P	11.82	1.75	1.61
44	D9	13	DC	O3'-P	11.82	1.75	1.61
161	O8	30	DC	O3'-P	11.82	1.75	1.61
47	DD	8	DC	O3'-P	11.82	1.75	1.61
87	H8	12	DC	O3'-P	11.82	1.75	1.61
99	I9	11	DC	O3'-P	11.82	1.75	1.61
130	L7	25	DC	O3'-P	11.82	1.75	1.61
149	N6	32	DC	O3'-P	11.82	1.75	1.61
190	R9	41	DC	O3'-P	11.82	1.75	1.61
11	AB	241	DC	O3'-P	11.82	1.75	1.61
11	AB	3495	DC	O3'-P	11.82	1.75	1.61
11	AB	4926	DC	O3'-P	11.82	1.75	1.61
11	AB	5637	DC	O3'-P	11.82	1.75	1.61
11	AB	6506	DC	O3'-P	11.82	1.75	1.61
137	M3	30	DC	O3'-P	11.82	1.75	1.61
11	AB	3608	DC	O3'-P	11.82	1.75	1.61
11	AB	4129	DC	O3'-P	11.82	1.75	1.61
85	H6	18	DC	O3'-P	11.82	1.75	1.61
126	L2	19	DC	O3'-P	11.82	1.75	1.61
193	RD	8	DC	O3'-P	11.82	1.75	1.61
11	AB	5104	DC	O3'-P	11.82	1.75	1.61
85	H6	11	DC	O3'-P	11.82	1.75	1.61
157	O3	7	DC	O3'-P	11.82	1.75	1.61
167	P3	35	DC	O3'-P	11.82	1.75	1.61
11	AB	1924	DC	O3'-P	11.82	1.75	1.61
11	AB	1548	DC	O3'-P	11.82	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2190	DC	O3'-P	11.82	1.75	1.61
11	AB	4659	DC	O3'-P	11.82	1.75	1.61
11	AB	4843	DC	O3'-P	11.82	1.75	1.61
11	AB	5602	DC	O3'-P	11.82	1.75	1.61
160	O7	45	DC	O3'-P	11.82	1.75	1.61
223	V5	38	DC	O3'-P	11.82	1.75	1.61
12	AC	7	DC	O3'-P	11.82	1.75	1.61
19	B6	12	DC	O3'-P	11.82	1.75	1.61
27	C2	16	DC	O3'-P	11.82	1.75	1.61
146	N2	5	DC	O3'-P	11.82	1.75	1.61
237	X7	17	DC	O3'-P	11.82	1.75	1.61
1	A1	11	DC	O3'-P	11.81	1.75	1.61
7	A7	6	DC	O3'-P	11.81	1.75	1.61
7	A7	16	DC	O3'-P	11.81	1.75	1.61
11	AB	728	DC	O3'-P	11.81	1.75	1.61
11	AB	2613	DC	O3'-P	11.81	1.75	1.61
11	AB	3053	DC	O3'-P	11.81	1.75	1.61
11	AB	3770	DC	O3'-P	11.81	1.75	1.61
11	AB	4945	DC	O3'-P	11.81	1.75	1.61
11	AB	4013	DC	O3'-P	11.81	1.75	1.61
11	AB	4379	DC	O3'-P	11.81	1.75	1.61
11	AB	4406	DC	O3'-P	11.81	1.75	1.61
11	AB	5311	DC	O3'-P	11.81	1.75	1.61
11	AB	7209	DC	O3'-P	11.81	1.75	1.61
83	H3	38	DC	O3'-P	11.81	1.75	1.61
84	H5	31	DC	O3'-P	11.81	1.75	1.61
238	X9	22	DC	O3'-P	11.81	1.75	1.61
125	L1	20	DC	O3'-P	11.81	1.75	1.61
181	Q9	17	DC	O3'-P	11.81	1.75	1.61
11	AB	1061	DC	O3'-P	11.81	1.75	1.61
11	AB	2251	DC	O3'-P	11.81	1.75	1.61
11	AB	2854	DC	O3'-P	11.81	1.75	1.61
137	M3	32	DC	O3'-P	11.81	1.75	1.61
160	O7	2	DC	O3'-P	11.81	1.75	1.61
160	O7	40	DC	O3'-P	11.81	1.75	1.61
188	R7	23	DC	O3'-P	11.81	1.75	1.61
213	U3	25	DC	O3'-P	11.81	1.75	1.61
11	AB	2684	DC	O3'-P	11.81	1.75	1.61
11	AB	4478	DC	O3'-P	11.81	1.75	1.61
71	G2	8	DC	O3'-P	11.81	1.75	1.61
120	K8	2	DC	O3'-P	11.81	1.75	1.61
131	L8	8	DC	O3'-P	11.81	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
142	M9	6	DC	O3'-P	11.81	1.75	1.61
149	N6	12	DC	O3'-P	11.81	1.75	1.61
194	S2	2	DC	O3'-P	11.81	1.75	1.61
11	AB	4860	DC	O3'-P	11.81	1.75	1.61
44	D9	4	DC	O3'-P	11.81	1.75	1.61
1	A1	21	DC	O3'-P	11.81	1.75	1.61
11	AB	4765	DC	O3'-P	11.81	1.75	1.61
11	AB	6661	DC	O3'-P	11.81	1.75	1.61
97	I7	22	DC	O3'-P	11.81	1.75	1.61
103	J1	17	DC	O3'-P	11.81	1.75	1.61
164	OC	17	DC	O3'-P	11.81	1.75	1.61
167	P3	19	DC	O3'-P	11.81	1.75	1.61
220	UD	13	DC	O3'-P	11.81	1.75	1.61
18	B5	37	DC	O3'-P	11.81	1.75	1.61
11	AB	2179	DC	O3'-P	11.80	1.75	1.61
11	AB	4122	DC	O3'-P	11.80	1.75	1.61
11	AB	4771	DC	O3'-P	11.80	1.75	1.61
94	I3	21	DC	O3'-P	11.80	1.75	1.61
63	F6	12	DC	O3'-P	11.80	1.75	1.61
93	I2	31	DC	O3'-P	11.80	1.75	1.61
106	J5	2	DC	O3'-P	11.80	1.75	1.61
106	J5	24	DC	O3'-P	11.80	1.75	1.61
107	J6	18	DC	O3'-P	11.80	1.75	1.61
124	KD	1	DC	O3'-P	11.80	1.75	1.61
140	M7	6	DC	O3'-P	11.80	1.75	1.61
163	OA	18	DC	O3'-P	11.80	1.75	1.61
237	X7	20	DC	O3'-P	11.80	1.75	1.61
2	A2	5	DC	O3'-P	11.80	1.75	1.61
7	A7	31	DC	O3'-P	11.80	1.75	1.61
11	AB	1400	DC	O3'-P	11.80	1.75	1.61
11	AB	3346	DC	O3'-P	11.80	1.75	1.61
120	K8	15	DC	O3'-P	11.80	1.75	1.61
11	AB	6647	DC	O3'-P	11.80	1.75	1.61
29	C5	26	DC	O3'-P	11.80	1.75	1.61
107	J6	3	DC	O3'-P	11.80	1.75	1.61
114	K1	24	DC	O3'-P	11.80	1.75	1.61
120	K8	17	DC	O3'-P	11.80	1.75	1.61
132	L9	16	DC	O3'-P	11.80	1.75	1.61
183	QC	7	DC	O3'-P	11.80	1.75	1.61
58	ED	39	DC	O3'-P	11.80	1.75	1.61
175	PD	1	DC	O3'-P	11.80	1.75	1.61
199	S9	12	DC	O3'-P	11.80	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	672	DC	O3'-P	11.80	1.75	1.61
11	AB	5535	DC	O3'-P	11.80	1.75	1.61
11	AB	6726	DC	O3'-P	11.79	1.75	1.61
11	AB	7021	DC	O3'-P	11.79	1.75	1.61
36	CD	1	DC	O3'-P	11.80	1.75	1.61
108	J7	46	DC	O3'-P	11.79	1.75	1.61
11	AB	3569	DC	O3'-P	11.79	1.75	1.61
11	AB	5137	DC	O3'-P	11.79	1.75	1.61
15	B2	8	DC	O3'-P	11.79	1.75	1.61
11	AB	6314	DC	O3'-P	11.79	1.75	1.61
94	I3	5	DC	O3'-P	11.79	1.75	1.61
146	N2	1	DC	O3'-P	11.79	1.75	1.61
234	W9	18	DC	O3'-P	11.79	1.75	1.61
237	X7	15	DC	O3'-P	11.79	1.75	1.61
11	AB	1251	DC	O3'-P	11.79	1.75	1.61
11	AB	2840	DC	O3'-P	11.79	1.75	1.61
11	AB	4931	DC	O3'-P	11.79	1.75	1.61
49	E2	13	DC	O3'-P	11.79	1.75	1.61
130	L7	22	DC	O3'-P	11.79	1.75	1.61
210	TC	27	DC	O3'-P	11.79	1.75	1.61
11	AB	588	DC	O3'-P	11.79	1.75	1.61
11	AB	2242	DC	O3'-P	11.79	1.75	1.61
11	AB	2764	DC	O3'-P	11.79	1.75	1.61
11	AB	3437	DC	O3'-P	11.79	1.75	1.61
11	AB	5870	DC	O3'-P	11.79	1.75	1.61
11	AB	5926	DC	O3'-P	11.79	1.75	1.61
63	F6	21	DC	O3'-P	11.79	1.75	1.61
91	HD	20	DC	O3'-P	11.79	1.75	1.61
122	KA	18	DC	O3'-P	11.79	1.75	1.61
174	PC	24	DC	O3'-P	11.79	1.75	1.61
188	R7	20	DC	O3'-P	11.79	1.75	1.61
22	B9	36	DC	O3'-P	11.79	1.75	1.61
11	AB	2103	DC	O3'-P	11.78	1.75	1.61
11	AB	3121	DC	O3'-P	11.79	1.75	1.61
11	AB	4299	DC	O3'-P	11.79	1.75	1.61
11	AB	6819	DC	O3'-P	11.78	1.75	1.61
67	FA	12	DC	O3'-P	11.78	1.75	1.61
188	R7	15	DC	O3'-P	11.78	1.75	1.61
199	S9	15	DC	O3'-P	11.79	1.75	1.61
205	T5	4	DC	O3'-P	11.79	1.75	1.61
214	U5	3	DC	O3'-P	11.79	1.75	1.61
238	X9	33	DC	O3'-P	11.79	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2997	DC	O3'-P	11.78	1.75	1.61
11	AB	6241	DC	O3'-P	11.78	1.75	1.61
29	C5	14	DC	O3'-P	11.78	1.75	1.61
226	V9	31	DC	O3'-P	11.78	1.75	1.61
45	DA	16	DC	O3'-P	11.78	1.75	1.61
11	AB	2837	DC	O3'-P	11.78	1.75	1.61
11	AB	5220	DC	O3'-P	11.78	1.75	1.61
62	F5	4	DC	O3'-P	11.78	1.75	1.61
177	Q3	15	DC	O3'-P	11.78	1.75	1.61
185	R2	16	DC	O3'-P	11.78	1.75	1.61
221	V2	20	DC	O3'-P	11.78	1.75	1.61
11	AB	1319	DC	O3'-P	11.78	1.75	1.61
11	AB	3859	DC	O3'-P	11.78	1.75	1.61
11	AB	6731	DC	O3'-P	11.78	1.75	1.61
61	F3	1	DC	O3'-P	11.78	1.75	1.61
11	AB	3699	DC	O3'-P	11.78	1.75	1.61
11	AB	4386	DC	O3'-P	11.78	1.75	1.61
11	AB	5615	DC	O3'-P	11.78	1.75	1.61
152	N9	19	DC	O3'-P	11.77	1.75	1.61
189	R8	23	DC	O3'-P	11.77	1.75	1.61
11	AB	4362	DC	O3'-P	11.77	1.75	1.61
11	AB	6436	DC	O3'-P	11.77	1.75	1.61
11	AB	1367	DC	O3'-P	11.77	1.75	1.61
11	AB	4827	DC	O3'-P	11.77	1.75	1.61
11	AB	7232	DC	O3'-P	11.77	1.75	1.61
47	DD	20	DC	O3'-P	11.77	1.75	1.61
109	J8	18	DC	O3'-P	11.77	1.75	1.61
198	S8	14	DC	O3'-P	11.77	1.75	1.61
169	P6	14	DC	O3'-P	11.77	1.75	1.61
137	M3	8	DC	O3'-P	11.77	1.75	1.61
210	TC	8	DC	O3'-P	11.77	1.75	1.61
211	TD	11	DC	O3'-P	11.77	1.75	1.61
228	VC	13	DC	O3'-P	11.77	1.75	1.61
237	X7	13	DC	O3'-P	11.77	1.75	1.61
11	AB	5372	DC	O3'-P	11.76	1.75	1.61
195	S3	14	DC	O3'-P	11.76	1.75	1.61
182	QA	21	DC	O3'-P	11.76	1.75	1.61
11	AB	5858	DC	O3'-P	11.76	1.75	1.61
194	S2	22	DC	O3'-P	11.76	1.75	1.61
11	AB	1207	DC	O3'-P	11.75	1.75	1.61
192	RC	8	DC	O3'-P	11.75	1.75	1.61
11	AB	1730	DC	O3'-P	11.75	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4546	DC	O3'-P	11.75	1.75	1.61
103	J1	14	DC	O3'-P	11.75	1.75	1.61
29	C5	19	DC	O3'-P	11.75	1.75	1.61
82	H2	12	DC	O3'-P	11.75	1.75	1.61
11	AB	5546	DC	O3'-P	11.75	1.75	1.61
21	B8	8	DC	O3'-P	11.75	1.75	1.61
11	AB	6355	DC	O3'-P	11.75	1.75	1.61
101	IC	6	DC	O3'-P	11.75	1.75	1.61
193	RD	19	DC	O3'-P	11.74	1.75	1.61
79	GC	8	DC	O3'-P	11.74	1.75	1.61
11	AB	2744	DC	O3'-P	11.74	1.75	1.61
11	AB	5416	DC	O3'-P	11.74	1.75	1.61
11	AB	2079	DC	O3'-P	11.74	1.75	1.61
154	NC	28	DC	O3'-P	11.74	1.75	1.61
11	AB	5106	DC	O3'-P	11.74	1.75	1.61
30	C6	29	DC	O3'-P	11.74	1.75	1.61
160	O7	33	DC	O3'-P	11.74	1.75	1.61
71	G2	20	DC	O3'-P	11.74	1.75	1.61
11	AB	4929	DC	O3'-P	11.73	1.75	1.61
11	AB	5850	DC	O3'-P	11.73	1.75	1.61
60	F2	14	DC	O3'-P	11.73	1.75	1.61
135	LD	17	DC	O3'-P	11.73	1.75	1.61
52	E6	18	DC	O3'-P	11.73	1.75	1.61
105	J3	31	DC	O3'-P	11.73	1.75	1.61
11	AB	6401	DC	O3'-P	11.73	1.75	1.61
13	AD	9	DC	O3'-P	11.73	1.75	1.61
31	C7	31	DC	O3'-P	11.73	1.75	1.61
166	P2	24	DC	O3'-P	11.73	1.75	1.61
203	T2	24	DC	O3'-P	11.73	1.75	1.61
11	AB	2580	DC	O3'-P	11.73	1.75	1.61
11	AB	2906	DC	O3'-P	11.73	1.75	1.61
11	AB	4717	DC	O3'-P	11.73	1.75	1.61
75	G7	10	DC	O3'-P	11.73	1.75	1.61
139	M6	24	DC	O3'-P	11.73	1.75	1.61
158	O5	21	DC	O3'-P	11.73	1.75	1.61
184	QD	5	DC	O3'-P	11.73	1.75	1.61
82	H2	8	DC	O3'-P	11.73	1.75	1.61
93	I2	5	DC	O3'-P	11.73	1.75	1.61
98	I8	21	DC	O3'-P	11.73	1.75	1.61
140	M7	11	DC	O3'-P	11.73	1.75	1.61
175	PD	11	DC	O3'-P	11.73	1.75	1.61
194	S2	16	DC	O3'-P	11.73	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
205	T5	14	DC	O3'-P	11.73	1.75	1.61
11	AB	3590	DC	O3'-P	11.72	1.75	1.61
11	AB	4703	DC	O3'-P	11.72	1.75	1.61
11	AB	6607	DC	O3'-P	11.72	1.75	1.61
164	OC	24	DC	O3'-P	11.72	1.75	1.61
11	AB	2289	DC	O3'-P	11.72	1.75	1.61
11	AB	7141	DC	O3'-P	11.72	1.75	1.61
11	AB	6091	DC	O3'-P	11.72	1.75	1.61
48	E1	18	DC	O3'-P	11.72	1.75	1.61
11	AB	1044	DC	O3'-P	11.71	1.75	1.61
11	AB	1431	DC	O3'-P	11.71	1.75	1.61
69	FD	29	DC	O3'-P	11.71	1.75	1.61
76	G8	8	DC	O3'-P	11.71	1.75	1.61
94	I3	11	DC	O3'-P	11.71	1.75	1.61
161	O8	43	DC	O3'-P	11.71	1.75	1.61
11	AB	34	DC	O3'-P	11.71	1.75	1.61
11	AB	3110	DC	O3'-P	11.71	1.75	1.61
11	AB	4512	DC	O3'-P	11.71	1.75	1.61
11	AB	5633	DC	O3'-P	11.71	1.75	1.61
97	I7	5	DC	O3'-P	11.71	1.75	1.61
11	AB	6031	DC	O3'-P	11.71	1.75	1.61
36	CD	9	DC	O3'-P	11.71	1.75	1.61
69	FD	38	DC	O3'-P	11.71	1.75	1.61
37	D1	29	DC	O3'-P	11.71	1.75	1.61
109	J8	9	DC	O3'-P	11.71	1.75	1.61
198	S8	19	DC	O3'-P	11.71	1.75	1.61
11	AB	76	DC	O3'-P	11.71	1.75	1.61
26	C1	25	DC	O3'-P	11.71	1.75	1.61
11	AB	105	DC	O3'-P	11.71	1.75	1.61
104	J2	8	DC	O3'-P	11.71	1.75	1.61
187	R5	1	DC	O3'-P	11.71	1.75	1.61
204	T3	29	DC	O3'-P	11.71	1.75	1.61
11	AB	1899	DC	O3'-P	11.71	1.75	1.61
11	AB	2388	DC	O3'-P	11.71	1.75	1.61
11	AB	6696	DC	O3'-P	11.71	1.75	1.61
14	B1	22	DC	O3'-P	11.71	1.75	1.61
104	J2	22	DC	O3'-P	11.71	1.75	1.61
136	M2	19	DC	O3'-P	11.71	1.75	1.61
6	A6	17	DC	O3'-P	11.70	1.75	1.61
62	F5	25	DC	O3'-P	11.70	1.75	1.61
158	O5	37	DC	O3'-P	11.71	1.75	1.61
201	SC	1	DC	O3'-P	11.70	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
209	TA	1	DC	O3'-P	11.71	1.75	1.61
105	J3	23	DC	O3'-P	11.70	1.75	1.61
212	U2	11	DC	O3'-P	11.70	1.75	1.61
48	E1	30	DC	O3'-P	11.70	1.75	1.61
94	I3	14	DC	O3'-P	11.70	1.75	1.61
139	M6	2	DC	O3'-P	11.70	1.75	1.61
187	R5	34	DC	O3'-P	11.70	1.75	1.61
11	AB	6043	DC	O3'-P	11.70	1.75	1.61
20	B7	11	DC	O3'-P	11.70	1.75	1.61
98	I8	13	DC	O3'-P	11.70	1.75	1.61
108	J7	22	DC	O3'-P	11.70	1.75	1.61
237	X7	7	DC	O3'-P	11.70	1.75	1.61
11	AB	3107	DC	O3'-P	11.70	1.75	1.61
11	AB	6299	DC	O3'-P	11.70	1.75	1.61
18	B5	25	DC	O3'-P	11.70	1.75	1.61
69	FD	3	DC	O3'-P	11.70	1.75	1.61
156	O2	46	DC	O3'-P	11.70	1.75	1.61
11	AB	2915	DC	O3'-P	11.69	1.75	1.61
11	AB	6632	DC	O3'-P	11.69	1.75	1.61
11	AB	6934	DC	O3'-P	11.69	1.75	1.61
35	CC	32	DC	O3'-P	11.69	1.75	1.61
50	E3	5	DC	O3'-P	11.69	1.75	1.61
11	AB	146	DC	O3'-P	11.69	1.75	1.61
11	AB	4565	DC	O3'-P	11.69	1.75	1.61
11	AB	5246	DC	O3'-P	11.69	1.75	1.61
117	K5	8	DC	O3'-P	11.69	1.75	1.61
231	W5	16	DC	O3'-P	11.69	1.75	1.61
1	A1	45	DC	O3'-P	11.69	1.75	1.61
11	AB	325	DC	O3'-P	11.69	1.75	1.61
11	AB	4049	DC	O3'-P	11.69	1.75	1.61
11	AB	6059	DC	O3'-P	11.69	1.75	1.61
37	D1	22	DC	O3'-P	11.69	1.75	1.61
59	F1	13	DC	O3'-P	11.69	1.75	1.61
125	L1	26	DC	O3'-P	11.69	1.75	1.61
130	L7	32	DC	O3'-P	11.69	1.75	1.61
133	LA	15	DC	O3'-P	11.69	1.75	1.61
134	LC	5	DC	O3'-P	11.69	1.75	1.61
10	AA	8	DC	O3'-P	11.69	1.75	1.61
11	AB	5040	DC	O3'-P	11.69	1.75	1.61
223	V5	30	DC	O3'-P	11.69	1.75	1.61
78	GA	6	DC	O3'-P	11.69	1.75	1.61
93	I2	2	DC	O3'-P	11.69	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
126	L2	46	DC	O3'-P	11.69	1.75	1.61
183	QC	22	DC	O3'-P	11.69	1.75	1.61
11	AB	1637	DC	O3'-P	11.68	1.75	1.61
11	AB	2724	DC	O3'-P	11.68	1.75	1.61
11	AB	3077	DC	O3'-P	11.68	1.75	1.61
11	AB	4053	DC	O3'-P	11.68	1.75	1.61
11	AB	3085	DC	O3'-P	11.68	1.75	1.61
11	AB	5188	DC	O3'-P	11.68	1.75	1.61
11	AB	5255	DC	O3'-P	11.68	1.75	1.61
11	AB	5566	DC	O3'-P	11.68	1.75	1.61
11	AB	6690	DC	O3'-P	11.68	1.75	1.61
32	C8	5	DC	O3'-P	11.68	1.75	1.61
53	E7	17	DC	O3'-P	11.68	1.75	1.61
82	H2	48	DC	O3'-P	11.68	1.75	1.61
99	I9	22	DC	O3'-P	11.68	1.75	1.61
127	L3	2	DC	O3'-P	11.68	1.75	1.61
161	O8	34	DC	O3'-P	11.68	1.75	1.61
164	OC	20	DC	O3'-P	11.68	1.75	1.61
173	PA	11	DC	O3'-P	11.68	1.75	1.61
184	QD	23	DC	O3'-P	11.68	1.75	1.61
189	R8	29	DC	O3'-P	11.68	1.75	1.61
238	X9	44	DC	O3'-P	11.68	1.75	1.61
7	A7	23	DC	O3'-P	11.68	1.75	1.61
11	AB	758	DC	O3'-P	11.68	1.75	1.61
11	AB	5170	DC	O3'-P	11.68	1.75	1.61
11	AB	5890	DC	O3'-P	11.68	1.75	1.61
134	LC	8	DC	O3'-P	11.68	1.75	1.61
11	AB	549	DC	O3'-P	11.68	1.75	1.61
11	AB	3875	DC	O3'-P	11.68	1.75	1.61
11	AB	6272	DC	O3'-P	11.68	1.75	1.61
55	E9	25	DC	O3'-P	11.68	1.75	1.61
161	O8	20	DC	O3'-P	11.68	1.75	1.61
230	W3	17	DC	O3'-P	11.68	1.75	1.61
11	AB	4044	DC	O3'-P	11.68	1.75	1.61
11	AB	5114	DC	O3'-P	11.68	1.75	1.61
32	C8	9	DC	O3'-P	11.68	1.75	1.61
153	NA	9	DC	O3'-P	11.68	1.75	1.61
180	Q8	6	DC	O3'-P	11.68	1.75	1.61
217	U9	9	DC	O3'-P	11.68	1.75	1.61
38	D2	9	DC	O3'-P	11.68	1.75	1.61
47	DD	42	DC	O3'-P	11.68	1.75	1.61
1	A1	16	DC	O3'-P	11.67	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	707	DC	O3'-P	11.67	1.75	1.61
11	AB	1109	DC	O3'-P	11.67	1.75	1.61
11	AB	2563	DC	O3'-P	11.67	1.75	1.61
11	AB	4635	DC	O3'-P	11.67	1.75	1.61
205	T5	20	DC	O3'-P	11.67	1.75	1.61
11	AB	3057	DC	O3'-P	11.67	1.75	1.61
11	AB	4445	DC	O3'-P	11.67	1.75	1.61
202	SD	26	DC	O3'-P	11.67	1.75	1.61
226	V9	13	DC	O3'-P	11.67	1.75	1.61
1	A1	31	DC	O3'-P	11.67	1.75	1.61
14	B1	41	DC	O3'-P	11.67	1.75	1.61
92	I1	8	DC	O3'-P	11.67	1.75	1.61
114	K1	5	DC	O3'-P	11.67	1.75	1.61
125	L1	13	DC	O3'-P	11.67	1.75	1.61
238	X9	50	DC	O3'-P	11.67	1.75	1.61
11	AB	4497	DC	O3'-P	11.67	1.75	1.61
11	AB	6852	DC	O3'-P	11.67	1.75	1.61
58	ED	12	DC	O3'-P	11.67	1.75	1.61
82	H2	40	DC	O3'-P	11.67	1.75	1.61
126	L2	58	DC	O3'-P	11.67	1.75	1.61
197	S7	2	DC	O3'-P	11.67	1.75	1.61
208	T9	15	DC	O3'-P	11.67	1.75	1.61
210	TC	22	DC	O3'-P	11.67	1.75	1.61
233	W8	8	DC	O3'-P	11.67	1.75	1.61
5	A5	34	DC	O3'-P	11.67	1.75	1.61
11	AB	58	DC	O3'-P	11.67	1.75	1.61
11	AB	527	DC	O3'-P	11.67	1.75	1.61
11	AB	774	DC	O3'-P	11.67	1.75	1.61
11	AB	2216	DC	O3'-P	11.67	1.75	1.61
11	AB	2557	DC	O3'-P	11.67	1.75	1.61
11	AB	3415	DC	O3'-P	11.67	1.75	1.61
66	F9	12	DC	O3'-P	11.67	1.75	1.61
100	IA	21	DC	O3'-P	11.67	1.75	1.61
37	D1	19	DC	O3'-P	11.67	1.75	1.61
62	F5	14	DC	O3'-P	11.67	1.75	1.61
122	KA	25	DC	O3'-P	11.67	1.75	1.61
140	M7	17	DC	O3'-P	11.67	1.75	1.61
149	N6	42	DC	O3'-P	11.67	1.75	1.61
179	Q7	18	DC	O3'-P	11.67	1.75	1.61
189	R8	38	DC	O3'-P	11.67	1.75	1.61
204	T3	41	DC	O3'-P	11.67	1.75	1.61
228	VC	5	DC	O3'-P	11.67	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	994	DC	O3'-P	11.66	1.75	1.61
11	AB	3064	DC	O3'-P	11.66	1.75	1.61
11	AB	3215	DC	O3'-P	11.66	1.75	1.61
11	AB	3586	DC	O3'-P	11.66	1.75	1.61
11	AB	4177	DC	O3'-P	11.66	1.75	1.61
11	AB	5037	DC	O3'-P	11.66	1.75	1.61
49	E2	19	DC	O3'-P	11.66	1.75	1.61
66	F9	8	DC	O3'-P	11.66	1.75	1.61
73	G5	5	DC	O3'-P	11.66	1.75	1.61
123	KC	25	DC	O3'-P	11.66	1.75	1.61
128	L5	18	DC	O3'-P	11.66	1.75	1.61
142	M9	18	DC	O3'-P	11.66	1.75	1.61
145	MD	4	DC	O3'-P	11.66	1.75	1.61
167	P3	30	DC	O3'-P	11.66	1.75	1.61
190	R9	30	DC	O3'-P	11.66	1.75	1.61
235	WD	16	DC	O3'-P	11.66	1.75	1.61
6	A6	10	DC	O3'-P	11.66	1.75	1.61
11	AB	1185	DC	O3'-P	11.66	1.75	1.61
121	K9	7	DC	O3'-P	11.66	1.75	1.61
156	O2	57	DC	O3'-P	11.66	1.75	1.61
220	UD	20	DC	O3'-P	11.66	1.75	1.61
11	AB	2652	DC	O3'-P	11.66	1.75	1.61
11	AB	3272	DC	O3'-P	11.66	1.75	1.61
11	AB	3807	DC	O3'-P	11.66	1.75	1.61
11	AB	4773	DC	O3'-P	11.66	1.75	1.61
95	I5	15	DC	O3'-P	11.66	1.75	1.61
114	K1	17	DC	O3'-P	11.66	1.75	1.61
147	N3	34	DC	O3'-P	11.66	1.75	1.61
152	N9	34	DC	O3'-P	11.66	1.75	1.61
192	RC	12	DC	O3'-P	11.66	1.75	1.61
196	S5	17	DC	O3'-P	11.66	1.75	1.61
216	U8	16	DC	O3'-P	11.66	1.75	1.61
11	AB	2142	DC	O3'-P	11.66	1.75	1.61
11	AB	2788	DC	O3'-P	11.66	1.75	1.61
196	S5	14	DC	O3'-P	11.66	1.75	1.61
11	AB	4782	DC	O3'-P	11.66	1.75	1.61
18	B5	22	DC	O3'-P	11.66	1.75	1.61
21	B8	20	DC	O3'-P	11.66	1.75	1.61
41	D6	22	DC	O3'-P	11.66	1.75	1.61
52	E6	35	DC	O3'-P	11.66	1.75	1.61
56	EA	22	DC	O3'-P	11.66	1.75	1.61
87	H8	24	DC	O3'-P	11.66	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
98	I8	9	DC	O3'-P	11.66	1.75	1.61
138	M5	13	DC	O3'-P	11.66	1.75	1.61
168	P5	5	DC	O3'-P	11.66	1.75	1.61
189	R8	35	DC	O3'-P	11.66	1.75	1.61
11	AB	702	DC	O3'-P	11.65	1.75	1.61
11	AB	1426	DC	O3'-P	11.65	1.75	1.61
11	AB	3921	DC	O3'-P	11.65	1.75	1.61
11	AB	6028	DC	O3'-P	11.65	1.75	1.61
11	AB	6845	DC	O3'-P	11.65	1.75	1.61
32	C8	34	DC	O3'-P	11.65	1.75	1.61
52	E6	13	DC	O3'-P	11.65	1.75	1.61
75	G7	28	DC	O3'-P	11.65	1.75	1.61
140	M7	2	DC	O3'-P	11.65	1.75	1.61
11	AB	512	DC	O3'-P	11.65	1.75	1.61
11	AB	2448	DC	O3'-P	11.65	1.75	1.61
11	AB	2746	DC	O3'-P	11.65	1.75	1.61
11	AB	4026	DC	O3'-P	11.65	1.75	1.61
38	D2	3	DC	O3'-P	11.65	1.75	1.61
126	L2	40	DC	O3'-P	11.65	1.75	1.61
11	AB	4708	DC	O3'-P	11.65	1.75	1.61
165	OD	39	DC	O3'-P	11.65	1.75	1.61
206	T7	32	DC	O3'-P	11.65	1.75	1.61
11	AB	3750	DC	O3'-P	11.65	1.75	1.61
11	AB	4369	DC	O3'-P	11.65	1.75	1.61
11	AB	5334	DC	O3'-P	11.65	1.75	1.61
54	E8	15	DC	O3'-P	11.65	1.75	1.61
11	AB	5960	DC	O3'-P	11.65	1.75	1.61
19	B6	1	DC	O3'-P	11.65	1.75	1.61
167	P3	16	DC	O3'-P	11.65	1.75	1.61
11	AB	1294	DC	O3'-P	11.64	1.75	1.61
11	AB	4630	DC	O3'-P	11.64	1.75	1.61
14	B1	5	DC	O3'-P	11.64	1.75	1.61
104	J2	5	DC	O3'-P	11.64	1.75	1.61
11	AB	4910	DC	O3'-P	11.64	1.75	1.61
11	AB	5120	DC	O3'-P	11.64	1.75	1.61
75	G7	19	DC	O3'-P	11.64	1.75	1.61
90	HC	17	DC	O3'-P	11.64	1.75	1.61
91	HD	11	DC	O3'-P	11.64	1.75	1.61
114	K1	1	DC	O3'-P	11.64	1.75	1.61
126	L2	5	DC	O3'-P	11.64	1.75	1.61
126	L2	43	DC	O3'-P	11.64	1.75	1.61
165	OD	1	DC	O3'-P	11.64	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
227	VA	17	DC	O3'-P	11.64	1.75	1.61
11	AB	1616	DC	O3'-P	11.64	1.75	1.61
11	AB	2636	DC	O3'-P	11.64	1.75	1.61
11	AB	6364	DC	O3'-P	11.64	1.75	1.61
80	GD	14	DC	O3'-P	11.64	1.75	1.61
141	M8	9	DC	O3'-P	11.64	1.75	1.61
143	MA	24	DC	O3'-P	11.64	1.75	1.61
173	PA	29	DC	O3'-P	11.64	1.75	1.61
11	AB	1887	DC	O3'-P	11.64	1.75	1.61
11	AB	2462	DC	O3'-P	11.64	1.75	1.61
11	AB	3412	DC	O3'-P	11.64	1.75	1.61
11	AB	7120	DC	O3'-P	11.64	1.75	1.61
171	P8	27	DC	O3'-P	11.64	1.75	1.61
227	VA	1	DC	O3'-P	11.64	1.75	1.61
11	AB	2166	DC	O3'-P	11.64	1.75	1.61
11	AB	2730	DC	O3'-P	11.64	1.75	1.61
11	AB	2374	DC	O3'-P	11.64	1.75	1.61
11	AB	4696	DC	O3'-P	11.64	1.75	1.61
112	JC	10	DC	O3'-P	11.64	1.75	1.61
202	SD	23	DC	O3'-P	11.64	1.75	1.61
11	AB	5427	DC	O3'-P	11.64	1.75	1.61
11	AB	6685	DC	O3'-P	11.64	1.75	1.61
24	BC	16	DC	O3'-P	11.64	1.75	1.61
11	AB	3733	DC	O3'-P	11.63	1.75	1.61
11	AB	4577	DC	O3'-P	11.64	1.75	1.61
11	AB	6040	DC	O3'-P	11.63	1.75	1.61
23	BA	18	DC	O3'-P	11.64	1.75	1.61
57	EC	2	DC	O3'-P	11.63	1.75	1.61
116	K3	8	DC	O3'-P	11.63	1.75	1.61
11	AB	718	DC	O3'-P	11.63	1.75	1.61
11	AB	3371	DC	O3'-P	11.63	1.75	1.61
48	E1	2	DC	O3'-P	11.63	1.75	1.61
63	F6	15	DC	O3'-P	11.63	1.75	1.61
143	MA	22	DC	O3'-P	11.63	1.75	1.61
143	MA	36	DC	O3'-P	11.63	1.75	1.61
211	TD	30	DC	O3'-P	11.63	1.75	1.61
11	AB	87	DC	O3'-P	11.63	1.75	1.61
1	A1	13	DC	O3'-P	11.63	1.75	1.61
11	AB	1646	DC	O3'-P	11.63	1.75	1.61
11	AB	4473	DC	O3'-P	11.63	1.75	1.61
15	B2	14	DC	O3'-P	11.63	1.75	1.61
128	L5	21	DC	O3'-P	11.63	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	45	DC	O3'-P	11.62	1.75	1.61
11	AB	275	DC	O3'-P	11.63	1.75	1.61
11	AB	2319	DC	O3'-P	11.62	1.75	1.61
11	AB	3379	DC	O3'-P	11.62	1.75	1.61
11	AB	5484	DC	O3'-P	11.62	1.75	1.61
11	AB	6973	DC	O3'-P	11.62	1.75	1.61
18	B5	9	DC	O3'-P	11.62	1.75	1.61
52	E6	26	DC	O3'-P	11.62	1.75	1.61
65	F8	6	DC	O3'-P	11.62	1.75	1.61
84	H5	38	DC	O3'-P	11.62	1.75	1.61
131	L8	18	DC	O3'-P	11.62	1.75	1.61
140	M7	14	DC	O3'-P	11.62	1.75	1.61
187	R5	16	DC	O3'-P	11.62	1.75	1.61
207	T8	12	DC	O3'-P	11.62	1.75	1.61
11	AB	4584	DC	O3'-P	11.62	1.75	1.61
11	AB	5738	DC	O3'-P	11.62	1.75	1.61
11	AB	5947	DC	O3'-P	11.62	1.75	1.61
82	H2	22	DC	O3'-P	11.62	1.75	1.61
186	R3	7	DC	O3'-P	11.62	1.75	1.61
11	AB	4199	DC	O3'-P	11.62	1.75	1.61
11	AB	1864	DC	O3'-P	11.62	1.75	1.61
11	AB	4506	DC	O3'-P	11.62	1.75	1.61
90	HC	23	DC	O3'-P	11.62	1.75	1.61
148	N5	21	DC	O3'-P	11.62	1.75	1.61
195	S3	8	DC	O3'-P	11.62	1.75	1.61
201	SC	9	DC	O3'-P	11.62	1.75	1.61
11	AB	2467	DC	O3'-P	11.62	1.75	1.61
11	AB	5902	DC	O3'-P	11.62	1.75	1.61
11	AB	2554	DC	O3'-P	11.61	1.75	1.61
11	AB	2771	DC	O3'-P	11.61	1.75	1.61
64	F7	22	DC	O3'-P	11.61	1.75	1.61
127	L3	11	DC	O3'-P	11.61	1.75	1.61
158	O5	41	DC	O3'-P	11.61	1.75	1.61
180	Q8	13	DC	O3'-P	11.62	1.75	1.61
230	W3	46	DC	O3'-P	11.61	1.75	1.61
39	D3	13	DC	O3'-P	11.61	1.75	1.61
117	K5	41	DC	O3'-P	11.61	1.75	1.61
11	AB	4988	DC	O3'-P	11.61	1.75	1.61
11	AB	6387	DC	O3'-P	11.61	1.75	1.61
35	CC	34	DC	O3'-P	11.61	1.75	1.61
147	N3	30	DC	O3'-P	11.61	1.75	1.61
161	O8	55	DC	O3'-P	11.61	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6927	DC	O3'-P	11.61	1.75	1.61
36	CD	12	DC	O3'-P	11.61	1.75	1.61
69	FD	17	DC	O3'-P	11.61	1.75	1.61
11	AB	5405	DC	O3'-P	11.60	1.75	1.61
75	G7	22	DC	O3'-P	11.60	1.75	1.61
149	N6	39	DC	O3'-P	11.60	1.75	1.61
204	T3	9	DC	O3'-P	11.60	1.75	1.61
238	X9	14	DC	O3'-P	11.60	1.75	1.61
11	AB	5480	DC	O3'-P	11.60	1.75	1.61
11	AB	4972	DC	O3'-P	11.60	1.75	1.61
47	DD	30	DC	O3'-P	11.60	1.75	1.61
11	AB	487	DC	O3'-P	11.60	1.75	1.61
145	MD	22	DC	O3'-P	11.60	1.75	1.61
145	MD	27	DC	O3'-P	11.60	1.75	1.61
11	AB	6535	DC	O3'-P	11.59	1.75	1.61
234	W9	5	DC	O3'-P	11.59	1.75	1.61
11	AB	1176	DC	O3'-P	11.59	1.75	1.61
11	AB	1790	DC	O3'-P	11.59	1.75	1.61
57	EC	4	DC	O3'-P	11.59	1.75	1.61
161	O8	38	DC	O3'-P	11.59	1.75	1.61
165	OD	20	DC	O3'-P	11.59	1.75	1.61
238	X9	12	DC	O3'-P	11.59	1.75	1.61
11	AB	3631	DC	O3'-P	11.59	1.75	1.61
11	AB	3804	DC	O3'-P	11.59	1.75	1.61
11	AB	5472	DC	O3'-P	11.59	1.75	1.61
100	IA	9	DC	O3'-P	11.59	1.75	1.61
109	J8	13	DC	O3'-P	11.59	1.75	1.61
155	ND	5	DC	O3'-P	11.59	1.75	1.61
145	MD	42	DC	O3'-P	11.59	1.75	1.61
192	RC	5	DC	O3'-P	11.59	1.75	1.61
200	SA	15	DC	O3'-P	11.59	1.75	1.61
11	AB	3081	DC	O3'-P	11.58	1.75	1.61
47	DD	39	DC	O3'-P	11.58	1.75	1.61
11	AB	5351	DC	O3'-P	11.58	1.75	1.61
32	C8	23	DC	O3'-P	11.58	1.75	1.61
41	D6	13	DC	O3'-P	11.58	1.75	1.61
11	AB	6212	DC	O3'-P	11.58	1.75	1.61
165	OD	16	DC	O3'-P	11.57	1.75	1.61
229	VD	15	DC	O3'-P	11.57	1.75	1.61
11	AB	3655	DC	O3'-P	11.57	1.75	1.61
11	AB	4442	DC	O3'-P	11.57	1.75	1.61
73	G5	20	DC	O3'-P	11.57	1.75	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
201	SC	6	DC	O3'-P	11.57	1.75	1.61
11	AB	2740	DC	O3'-P	11.57	1.75	1.61
11	AB	2551	DC	O3'-P	11.56	1.75	1.61
11	AB	4077	DC	O3'-P	11.56	1.75	1.61
156	O2	31	DC	O3'-P	11.56	1.75	1.61
11	AB	2911	DC	O3'-P	11.55	1.75	1.61
11	AB	4341	DC	O3'-P	11.55	1.75	1.61
11	AB	4775	DC	O3'-P	11.54	1.75	1.61
11	AB	3356	DC	O3'-P	11.53	1.75	1.61
11	AB	5916	DA	O3'-P	11.45	1.74	1.61
11	AB	2501	DA	O3'-P	11.44	1.74	1.61
11	AB	4576	DC	O3'-P	11.37	1.74	1.61
208	T9	5	DA	O3'-P	11.32	1.74	1.61
11	AB	1014	DA	O3'-P	11.32	1.74	1.61
11	AB	5879	DA	O3'-P	11.31	1.74	1.61
11	AB	6541	DA	O3'-P	11.30	1.74	1.61
11	AB	2368	DA	O3'-P	11.29	1.74	1.61
173	PA	15	DA	O3'-P	11.29	1.74	1.61
11	AB	4265	DA	O3'-P	11.28	1.74	1.61
11	AB	2029	DA	O3'-P	11.28	1.74	1.61
11	AB	2271	DA	O3'-P	11.28	1.74	1.61
11	AB	1990	DA	O3'-P	11.28	1.74	1.61
11	AB	3701	DA	O3'-P	11.28	1.74	1.61
11	AB	3947	DA	O3'-P	11.28	1.74	1.61
74	G6	24	DA	O3'-P	11.28	1.74	1.61
11	AB	5223	DT	O3'-P	11.28	1.74	1.61
163	OA	16	DA	O3'-P	11.28	1.74	1.61
223	V5	14	DA	O3'-P	11.27	1.74	1.61
11	AB	5816	DA	O3'-P	11.27	1.74	1.61
11	AB	6068	DA	O3'-P	11.27	1.74	1.61
206	T7	25	DA	O3'-P	11.27	1.74	1.61
11	AB	597	DA	O3'-P	11.27	1.74	1.61
11	AB	1842	DA	O3'-P	11.27	1.74	1.61
11	AB	3326	DA	O3'-P	11.27	1.74	1.61
237	X7	21	DA	O3'-P	11.27	1.74	1.61
11	AB	567	DA	O3'-P	11.27	1.74	1.61
11	AB	697	DA	O3'-P	11.27	1.74	1.61
7	A7	12	DA	O3'-P	11.27	1.74	1.61
11	AB	1805	DA	O3'-P	11.27	1.74	1.61
11	AB	1688	DA	O3'-P	11.26	1.74	1.61
11	AB	2422	DA	O3'-P	11.26	1.74	1.61
53	E7	4	DA	O3'-P	11.26	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
146	N2	17	DA	O3'-P	11.26	1.74	1.61
11	AB	2966	DA	O3'-P	11.26	1.74	1.61
138	M5	19	DA	O3'-P	11.26	1.74	1.61
11	AB	2804	DA	O3'-P	11.26	1.74	1.61
39	D3	24	DA	O3'-P	11.26	1.74	1.61
238	X9	8	DA	O3'-P	11.26	1.74	1.61
8	A8	19	DA	O3'-P	11.26	1.74	1.61
11	AB	403	DA	O3'-P	11.26	1.74	1.61
11	AB	1098	DA	O3'-P	11.26	1.74	1.61
11	AB	1232	DA	O3'-P	11.26	1.74	1.61
195	S3	27	DA	O3'-P	11.26	1.74	1.61
11	AB	809	DA	O3'-P	11.26	1.74	1.61
11	AB	2964	DA	O3'-P	11.26	1.74	1.61
11	AB	6560	DA	O3'-P	11.26	1.74	1.61
221	V2	3	DA	O3'-P	11.26	1.74	1.61
11	AB	7221	DT	O3'-P	11.26	1.74	1.61
11	AB	247	DA	O3'-P	11.25	1.74	1.61
11	AB	3482	DA	O3'-P	11.25	1.74	1.61
11	AB	4679	DA	O3'-P	11.25	1.74	1.61
11	AB	6342	DA	O3'-P	11.25	1.74	1.61
81	H1	7	DA	O3'-P	11.25	1.74	1.61
11	AB	6891	DA	O3'-P	11.25	1.74	1.61
170	P7	5	DA	O3'-P	11.25	1.74	1.61
206	T7	16	DA	O3'-P	11.25	1.74	1.61
217	U9	25	DA	O3'-P	11.25	1.74	1.61
11	AB	647	DA	O3'-P	11.25	1.74	1.61
85	H6	13	DA	O3'-P	11.25	1.74	1.61
149	N6	15	DA	O3'-P	11.25	1.74	1.61
173	PA	20	DA	O3'-P	11.25	1.74	1.61
13	AD	19	DA	O3'-P	11.25	1.74	1.61
112	JC	25	DA	O3'-P	11.25	1.74	1.61
142	M9	11	DA	O3'-P	11.25	1.74	1.61
208	T9	11	DA	O3'-P	11.25	1.74	1.61
149	N6	8	DA	O3'-P	11.25	1.74	1.61
161	O8	3	DA	O3'-P	11.25	1.74	1.61
181	Q9	31	DA	O3'-P	11.25	1.74	1.61
215	U7	3	DA	O3'-P	11.25	1.74	1.61
11	AB	2502	DA	O3'-P	11.24	1.74	1.61
40	D5	13	DA	O3'-P	11.24	1.74	1.61
92	I1	19	DA	O3'-P	11.24	1.74	1.61
142	M9	9	DA	O3'-P	11.24	1.74	1.61
11	AB	3348	DA	O3'-P	11.24	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4620	DA	O3'-P	11.24	1.74	1.61
79	GC	6	DA	O3'-P	11.24	1.74	1.61
189	R8	20	DA	O3'-P	11.24	1.74	1.61
226	V9	32	DA	O3'-P	11.24	1.74	1.61
238	X9	56	DA	O3'-P	11.24	1.74	1.61
11	AB	1830	DA	O3'-P	11.24	1.74	1.61
11	AB	1999	DA	O3'-P	11.24	1.74	1.61
11	AB	3131	DA	O3'-P	11.24	1.74	1.61
11	AB	3335	DA	O3'-P	11.24	1.74	1.61
152	N9	16	DA	O3'-P	11.24	1.74	1.61
230	W3	27	DA	O3'-P	11.24	1.74	1.61
11	AB	193	DA	O3'-P	11.24	1.74	1.61
11	AB	3134	DA	O3'-P	11.24	1.74	1.61
11	AB	3705	DA	O3'-P	11.24	1.74	1.61
11	AB	4612	DA	O3'-P	11.24	1.74	1.61
11	AB	4674	DA	O3'-P	11.24	1.74	1.61
11	AB	5305	DA	O3'-P	11.24	1.74	1.61
66	F9	20	DA	O3'-P	11.24	1.74	1.61
122	KA	19	DA	O3'-P	11.24	1.74	1.61
196	S5	1	DA	O3'-P	11.24	1.74	1.61
118	K6	5	DA	O3'-P	11.24	1.74	1.61
11	AB	655	DA	O3'-P	11.23	1.74	1.61
11	AB	1141	DA	O3'-P	11.23	1.74	1.61
11	AB	2428	DA	O3'-P	11.23	1.74	1.61
11	AB	3178	DA	O3'-P	11.23	1.74	1.61
11	AB	2270	DA	O3'-P	11.23	1.74	1.61
11	AB	2990	DA	O3'-P	11.23	1.74	1.61
11	AB	4423	DA	O3'-P	11.23	1.74	1.61
11	AB	6080	DA	O3'-P	11.23	1.74	1.61
11	AB	6428	DA	O3'-P	11.23	1.74	1.61
25	BD	21	DA	O3'-P	11.23	1.74	1.61
64	F7	3	DA	O3'-P	11.23	1.74	1.61
182	QA	26	DA	O3'-P	11.23	1.74	1.61
11	AB	733	DA	O3'-P	11.23	1.74	1.61
11	AB	2088	DA	O3'-P	11.23	1.74	1.61
11	AB	3850	DA	O3'-P	11.23	1.74	1.61
29	C5	4	DA	O3'-P	11.23	1.74	1.61
82	H2	15	DA	O3'-P	11.23	1.74	1.61
128	L5	12	DA	O3'-P	11.23	1.74	1.61
225	V8	15	DA	O3'-P	11.23	1.74	1.61
233	W8	22	DA	O3'-P	11.23	1.74	1.61
11	AB	850	DA	O3'-P	11.23	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2838	DA	O3'-P	11.23	1.74	1.61
11	AB	5157	DA	O3'-P	11.23	1.74	1.61
11	AB	5518	DA	O3'-P	11.23	1.74	1.61
80	GD	6	DA	O3'-P	11.23	1.74	1.61
150	N7	7	DA	O3'-P	11.23	1.74	1.61
198	S8	30	DA	O3'-P	11.23	1.74	1.61
11	AB	102	DA	O3'-P	11.23	1.74	1.61
11	AB	631	DA	O3'-P	11.23	1.74	1.61
11	AB	1321	DA	O3'-P	11.23	1.74	1.61
129	L6	13	DA	O3'-P	11.23	1.74	1.61
229	VD	19	DA	O3'-P	11.23	1.74	1.61
11	AB	4848	DA	O3'-P	11.22	1.74	1.61
18	B5	34	DA	O3'-P	11.22	1.74	1.61
11	AB	606	DA	O3'-P	11.22	1.74	1.61
11	AB	1956	DA	O3'-P	11.22	1.74	1.61
57	EC	19	DA	O3'-P	11.22	1.74	1.61
93	I2	32	DA	O3'-P	11.22	1.74	1.61
213	U3	23	DA	O3'-P	11.22	1.74	1.61
11	AB	562	DA	O3'-P	11.22	1.74	1.61
11	AB	3299	DA	O3'-P	11.22	1.74	1.61
11	AB	4272	DA	O3'-P	11.22	1.74	1.61
11	AB	4675	DA	O3'-P	11.22	1.74	1.61
11	AB	6596	DA	O3'-P	11.22	1.74	1.61
55	E9	8	DA	O3'-P	11.22	1.74	1.61
102	ID	6	DA	O3'-P	11.22	1.74	1.61
193	RD	11	DA	O3'-P	11.22	1.74	1.61
11	AB	1715	DA	O3'-P	11.22	1.74	1.61
11	AB	1958	DA	O3'-P	11.22	1.74	1.61
184	QD	18	DA	O3'-P	11.22	1.74	1.61
41	D6	30	DA	O3'-P	11.22	1.74	1.61
131	L8	12	DA	O3'-P	11.22	1.74	1.61
11	AB	2574	DA	O3'-P	11.22	1.74	1.61
11	AB	6578	DT	O3'-P	11.22	1.74	1.61
109	J8	19	DA	O3'-P	11.22	1.74	1.61
151	N8	12	DA	O3'-P	11.22	1.74	1.61
193	RD	9	DA	O3'-P	11.22	1.74	1.61
15	B2	11	DA	O3'-P	11.22	1.74	1.61
165	OD	46	DA	O3'-P	11.22	1.74	1.61
181	Q9	27	DA	O3'-P	11.22	1.74	1.61
11	AB	1857	DA	O3'-P	11.21	1.74	1.61
29	C5	20	DA	O3'-P	11.21	1.74	1.61
11	AB	1312	DA	O3'-P	11.21	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2065	DA	O3'-P	11.21	1.74	1.61
11	AB	2362	DA	O3'-P	11.21	1.74	1.61
11	AB	2495	DA	O3'-P	11.21	1.74	1.61
11	AB	2702	DA	O3'-P	11.21	1.74	1.61
11	AB	2809	DA	O3'-P	11.21	1.74	1.61
11	AB	3929	DA	O3'-P	11.21	1.74	1.61
11	AB	5013	DA	O3'-P	11.21	1.74	1.61
11	AB	5374	DA	O3'-P	11.21	1.74	1.61
11	AB	6173	DA	O3'-P	11.21	1.74	1.61
11	AB	6559	DA	O3'-P	11.21	1.74	1.61
199	S9	7	DA	O3'-P	11.21	1.74	1.61
14	B1	13	DA	O3'-P	11.21	1.74	1.61
45	DA	5	DA	O3'-P	11.21	1.74	1.61
51	E5	20	DA	O3'-P	11.21	1.74	1.61
98	I8	41	DA	O3'-P	11.21	1.74	1.61
125	L1	42	DA	O3'-P	11.21	1.74	1.61
140	M7	4	DA	O3'-P	11.21	1.74	1.61
184	QD	30	DA	O3'-P	11.21	1.74	1.61
193	RD	6	DA	O3'-P	11.21	1.74	1.61
219	UC	34	DA	O3'-P	11.21	1.74	1.61
11	AB	1135	DA	O3'-P	11.21	1.74	1.61
11	AB	2180	DA	O3'-P	11.21	1.74	1.61
11	AB	3179	DA	O3'-P	11.21	1.74	1.61
36	CD	21	DA	O3'-P	11.21	1.74	1.61
105	J3	5	DA	O3'-P	11.21	1.74	1.61
11	AB	371	DA	O3'-P	11.21	1.74	1.61
11	AB	1222	DA	O3'-P	11.21	1.74	1.61
11	AB	2927	DT	O3'-P	11.21	1.74	1.61
11	AB	2999	DA	O3'-P	11.21	1.74	1.61
11	AB	4010	DA	O3'-P	11.21	1.74	1.61
31	C7	10	DA	O3'-P	11.21	1.74	1.61
11	AB	5638	DA	O3'-P	11.21	1.74	1.61
89	HA	14	DA	O3'-P	11.21	1.74	1.61
11	AB	568	DA	O3'-P	11.21	1.74	1.61
112	JC	16	DA	O3'-P	11.21	1.74	1.61
200	SA	21	DA	O3'-P	11.21	1.74	1.61
11	AB	3659	DA	O3'-P	11.20	1.74	1.61
11	AB	4616	DA	O3'-P	11.20	1.74	1.61
11	AB	5536	DA	O3'-P	11.20	1.74	1.61
11	AB	6093	DA	O3'-P	11.21	1.74	1.61
11	AB	6482	DA	O3'-P	11.20	1.74	1.61
11	AB	6663	DA	O3'-P	11.20	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6811	DA	O3'-P	11.20	1.74	1.61
158	O5	29	DA	O3'-P	11.20	1.74	1.61
213	U3	2	DA	O3'-P	11.20	1.74	1.61
11	AB	1544	DA	O3'-P	11.20	1.74	1.61
11	AB	1840	DA	O3'-P	11.20	1.74	1.61
11	AB	2089	DT	O3'-P	11.20	1.74	1.61
11	AB	2677	DA	O3'-P	11.20	1.74	1.61
11	AB	2719	DA	O3'-P	11.20	1.74	1.61
11	AB	2980	DA	O3'-P	11.20	1.74	1.61
11	AB	3784	DA	O3'-P	11.20	1.74	1.61
11	AB	5896	DA	O3'-P	11.20	1.74	1.61
11	AB	6070	DA	O3'-P	11.20	1.74	1.61
11	AB	6084	DA	O3'-P	11.20	1.74	1.61
11	AB	6165	DA	O3'-P	11.20	1.74	1.61
105	J3	10	DA	O3'-P	11.20	1.74	1.61
155	ND	15	DA	O3'-P	11.20	1.74	1.61
211	TD	24	DA	O3'-P	11.20	1.74	1.61
225	V8	6	DA	O3'-P	11.20	1.74	1.61
235	WD	9	DA	O3'-P	11.20	1.74	1.61
4	A4	21	DA	O3'-P	11.20	1.74	1.61
5	A5	5	DA	O3'-P	11.20	1.74	1.61
10	AA	6	DA	O3'-P	11.20	1.74	1.61
11	AB	208	DA	O3'-P	11.20	1.74	1.61
11	AB	1532	DA	O3'-P	11.20	1.74	1.61
11	AB	2487	DA	O3'-P	11.20	1.74	1.61
11	AB	5400	DA	O3'-P	11.20	1.74	1.61
37	D1	6	DA	O3'-P	11.20	1.74	1.61
86	H7	7	DA	O3'-P	11.20	1.74	1.61
88	H9	6	DA	O3'-P	11.20	1.74	1.61
103	J1	15	DA	O3'-P	11.20	1.74	1.61
117	K5	33	DA	O3'-P	11.20	1.74	1.61
123	KC	5	DA	O3'-P	11.20	1.74	1.61
126	L2	14	DA	O3'-P	11.20	1.74	1.61
152	N9	39	DA	O3'-P	11.20	1.74	1.61
160	O7	17	DA	O3'-P	11.20	1.74	1.61
219	UC	35	DA	O3'-P	11.20	1.74	1.61
11	AB	1385	DT	O3'-P	11.20	1.74	1.61
11	AB	1937	DA	O3'-P	11.20	1.74	1.61
11	AB	2092	DA	O3'-P	11.20	1.74	1.61
11	AB	2468	DA	O3'-P	11.20	1.74	1.61
11	AB	3007	DA	O3'-P	11.20	1.74	1.61
11	AB	3706	DA	O3'-P	11.20	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3771	DA	O3'-P	11.20	1.74	1.61
11	AB	5811	DA	O3'-P	11.20	1.74	1.61
215	U7	8	DA	O3'-P	11.20	1.74	1.61
225	V8	7	DA	O3'-P	11.20	1.74	1.61
11	AB	4793	DA	O3'-P	11.20	1.74	1.61
11	AB	5579	DA	O3'-P	11.20	1.74	1.61
57	EC	18	DA	O3'-P	11.19	1.74	1.61
69	FD	12	DA	O3'-P	11.20	1.74	1.61
75	G7	13	DA	O3'-P	11.20	1.74	1.61
137	M3	11	DA	O3'-P	11.20	1.74	1.61
139	M6	11	DA	O3'-P	11.20	1.74	1.61
157	O3	22	DA	O3'-P	11.20	1.74	1.61
158	O5	15	DA	O3'-P	11.20	1.74	1.61
228	VC	36	DA	O3'-P	11.19	1.74	1.61
237	X7	2	DA	O3'-P	11.20	1.74	1.61
4	A4	15	DA	O3'-P	11.19	1.74	1.61
11	AB	644	DA	O3'-P	11.19	1.74	1.61
11	AB	1024	DA	O3'-P	11.19	1.74	1.61
11	AB	3857	DA	O3'-P	11.19	1.74	1.61
11	AB	6320	DA	O3'-P	11.19	1.74	1.61
47	DD	21	DA	O3'-P	11.19	1.74	1.61
187	R5	29	DA	O3'-P	11.19	1.74	1.61
208	T9	12	DT	O3'-P	11.19	1.74	1.61
11	AB	1156	DA	O3'-P	11.19	1.74	1.61
11	AB	1683	DA	O3'-P	11.19	1.74	1.61
11	AB	1728	DA	O3'-P	11.19	1.74	1.61
190	R9	33	DA	O3'-P	11.19	1.74	1.61
11	AB	2440	DA	O3'-P	11.19	1.74	1.61
11	AB	3026	DA	O3'-P	11.19	1.74	1.61
11	AB	4977	DA	O3'-P	11.19	1.74	1.61
11	AB	5073	DA	O3'-P	11.19	1.74	1.61
11	AB	5932	DA	O3'-P	11.19	1.74	1.61
11	AB	6507	DA	O3'-P	11.19	1.74	1.61
11	AB	7086	DA	O3'-P	11.19	1.74	1.61
26	C1	17	DA	O3'-P	11.19	1.74	1.61
36	CD	15	DA	O3'-P	11.19	1.74	1.61
50	E3	17	DA	O3'-P	11.19	1.74	1.61
99	I9	12	DA	O3'-P	11.19	1.74	1.61
114	K1	36	DA	O3'-P	11.19	1.74	1.61
142	M9	2	DA	O3'-P	11.19	1.74	1.61
156	O2	6	DA	O3'-P	11.19	1.74	1.61
180	Q8	19	DA	O3'-P	11.19	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
211	TD	36	DA	O3'-P	11.19	1.74	1.61
228	VC	26	DA	O3'-P	11.19	1.74	1.61
214	U5	1	DA	O3'-P	11.19	1.74	1.61
230	W3	1	DA	O3'-P	11.19	1.74	1.61
1	A1	36	DA	O3'-P	11.19	1.74	1.61
5	A5	16	DA	O3'-P	11.19	1.74	1.61
11	AB	1233	DT	O3'-P	11.19	1.74	1.61
11	AB	1700	DA	O3'-P	11.19	1.74	1.61
11	AB	4352	DA	O3'-P	11.19	1.74	1.61
11	AB	4380	DA	O3'-P	11.19	1.74	1.61
11	AB	5688	DA	O3'-P	11.19	1.74	1.61
15	B2	9	DA	O3'-P	11.19	1.74	1.61
11	AB	233	DA	O3'-P	11.19	1.74	1.61
11	AB	618	DA	O3'-P	11.19	1.74	1.61
11	AB	691	DA	O3'-P	11.19	1.74	1.61
11	AB	1568	DA	O3'-P	11.19	1.74	1.61
11	AB	2499	DA	O3'-P	11.19	1.74	1.61
11	AB	2706	DA	O3'-P	11.19	1.74	1.61
11	AB	3323	DA	O3'-P	11.19	1.74	1.61
11	AB	3714	DA	O3'-P	11.19	1.74	1.61
11	AB	4243	DT	O3'-P	11.19	1.74	1.61
11	AB	4300	DA	O3'-P	11.19	1.74	1.61
11	AB	5147	DA	O3'-P	11.19	1.74	1.61
11	AB	5316	DA	O3'-P	11.19	1.74	1.61
11	AB	6069	DA	O3'-P	11.19	1.74	1.61
11	AB	6171	DA	O3'-P	11.19	1.74	1.61
11	AB	6656	DA	O3'-P	11.19	1.74	1.61
11	AB	6808	DT	O3'-P	11.19	1.74	1.61
33	C9	7	DA	O3'-P	11.19	1.74	1.61
61	F3	2	DA	O3'-P	11.19	1.74	1.61
62	F5	35	DA	O3'-P	11.19	1.74	1.61
112	JC	18	DA	O3'-P	11.19	1.74	1.61
112	JC	23	DA	O3'-P	11.19	1.74	1.61
125	L1	15	DA	O3'-P	11.19	1.74	1.61
170	P7	9	DA	O3'-P	11.19	1.74	1.61
182	QA	3	DA	O3'-P	11.19	1.74	1.61
230	W3	3	DA	O3'-P	11.19	1.74	1.61
125	L1	51	DA	O3'-P	11.19	1.74	1.61
143	MA	6	DA	O3'-P	11.19	1.74	1.61
217	U9	17	DA	O3'-P	11.19	1.74	1.61
226	V9	8	DA	O3'-P	11.19	1.74	1.61
230	W3	4	DA	O3'-P	11.19	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
230	W3	23	DA	O3'-P	11.19	1.74	1.61
1	A1	37	DA	O3'-P	11.19	1.74	1.61
11	AB	171	DA	O3'-P	11.19	1.74	1.61
8	A8	17	DA	O3'-P	11.19	1.74	1.61
11	AB	245	DA	O3'-P	11.19	1.74	1.61
11	AB	251	DA	O3'-P	11.19	1.74	1.61
11	AB	577	DT	O3'-P	11.19	1.74	1.61
11	AB	1308	DA	O3'-P	11.19	1.74	1.61
11	AB	1378	DA	O3'-P	11.19	1.74	1.61
11	AB	1382	DA	O3'-P	11.19	1.74	1.61
11	AB	1517	DA	O3'-P	11.19	1.74	1.61
11	AB	4678	DA	O3'-P	11.19	1.74	1.61
11	AB	1938	DA	O3'-P	11.19	1.74	1.61
11	AB	2004	DA	O3'-P	11.19	1.74	1.61
11	AB	2285	DA	O3'-P	11.19	1.74	1.61
11	AB	2685	DA	O3'-P	11.19	1.74	1.61
11	AB	3709	DA	O3'-P	11.19	1.74	1.61
11	AB	5014	DA	O3'-P	11.19	1.74	1.61
11	AB	5456	DA	O3'-P	11.19	1.74	1.61
11	AB	5726	DA	O3'-P	11.19	1.74	1.61
11	AB	5804	DA	O3'-P	11.19	1.74	1.61
11	AB	6008	DA	O3'-P	11.19	1.74	1.61
11	AB	6489	DT	O3'-P	11.19	1.74	1.61
22	B9	1	DA	O3'-P	11.19	1.74	1.61
39	D3	21	DA	O3'-P	11.19	1.74	1.61
42	D7	11	DA	O3'-P	11.19	1.74	1.61
50	E3	18	DA	O3'-P	11.19	1.74	1.61
69	FD	11	DA	O3'-P	11.19	1.74	1.61
93	I2	10	DA	O3'-P	11.19	1.74	1.61
125	L1	18	DA	O3'-P	11.19	1.74	1.61
155	ND	16	DA	O3'-P	11.19	1.74	1.61
189	R8	4	DA	O3'-P	11.19	1.74	1.61
199	S9	13	DA	O3'-P	11.19	1.74	1.61
221	V2	21	DA	O3'-P	11.19	1.74	1.61
236	X5	24	DA	O3'-P	11.19	1.74	1.61
11	AB	1860	DA	O3'-P	11.18	1.74	1.61
11	AB	2432	DA	O3'-P	11.18	1.74	1.61
11	AB	2922	DA	O3'-P	11.18	1.74	1.61
11	AB	3119	DA	O3'-P	11.18	1.74	1.61
11	AB	2350	DA	O3'-P	11.18	1.74	1.61
11	AB	3029	DA	O3'-P	11.18	1.74	1.61
11	AB	3614	DT	O3'-P	11.18	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3785	DA	O3'-P	11.18	1.74	1.61
11	AB	4101	DT	O3'-P	11.18	1.74	1.61
11	AB	4669	DA	O3'-P	11.18	1.74	1.61
23	BA	21	DA	O3'-P	11.18	1.74	1.61
115	K2	6	DT	O3'-P	11.18	1.74	1.61
11	AB	4803	DA	O3'-P	11.18	1.74	1.61
11	AB	5613	DA	O3'-P	11.18	1.74	1.61
11	AB	5627	DA	O3'-P	11.18	1.74	1.61
11	AB	5689	DA	O3'-P	11.18	1.74	1.61
14	B1	10	DA	O3'-P	11.18	1.74	1.61
25	BD	22	DA	O3'-P	11.18	1.74	1.61
45	DA	23	DA	O3'-P	11.18	1.74	1.61
49	E2	8	DA	O3'-P	11.18	1.74	1.61
55	E9	14	DA	O3'-P	11.18	1.74	1.61
65	F8	14	DA	O3'-P	11.18	1.74	1.61
120	K8	22	DA	O3'-P	11.18	1.74	1.61
235	WD	10	DA	O3'-P	11.18	1.74	1.61
58	ED	34	DA	O3'-P	11.18	1.74	1.61
74	G6	27	DA	O3'-P	11.18	1.74	1.61
89	HA	30	DA	O3'-P	11.18	1.74	1.61
156	O2	3	DA	O3'-P	11.18	1.74	1.61
160	O7	18	DA	O3'-P	11.18	1.74	1.61
223	V5	15	DA	O3'-P	11.18	1.74	1.61
226	V9	10	DA	O3'-P	11.18	1.74	1.61
229	VD	18	DA	O3'-P	11.18	1.74	1.61
7	A7	18	DA	O3'-P	11.18	1.74	1.61
10	AA	13	DA	O3'-P	11.18	1.74	1.61
11	AB	599	DT	O3'-P	11.18	1.74	1.61
11	AB	1727	DA	O3'-P	11.18	1.74	1.61
11	AB	2699	DA	O3'-P	11.18	1.74	1.61
11	AB	2827	DA	O3'-P	11.18	1.74	1.61
11	AB	3128	DA	O3'-P	11.18	1.74	1.61
11	AB	5442	DA	O3'-P	11.18	1.74	1.61
11	AB	5507	DA	O3'-P	11.18	1.74	1.61
11	AB	5881	DA	O3'-P	11.18	1.74	1.61
27	C2	14	DA	O3'-P	11.18	1.74	1.61
58	ED	40	DA	O3'-P	11.18	1.74	1.61
86	H7	15	DA	O3'-P	11.18	1.74	1.61
115	K2	5	DA	O3'-P	11.18	1.74	1.61
200	SA	22	DA	O3'-P	11.18	1.74	1.61
222	V3	22	DA	O3'-P	11.18	1.74	1.61
224	V7	13	DA	O3'-P	11.18	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
230	W3	10	DA	O3'-P	11.18	1.74	1.61
237	X7	18	DA	O3'-P	11.18	1.74	1.61
3	A3	3	DA	O3'-P	11.18	1.74	1.61
11	AB	1987	DA	O3'-P	11.18	1.74	1.61
11	AB	3303	DA	O3'-P	11.18	1.74	1.61
11	AB	3710	DA	O3'-P	11.18	1.74	1.61
11	AB	4766	DA	O3'-P	11.18	1.74	1.61
11	AB	4802	DA	O3'-P	11.18	1.74	1.61
11	AB	5221	DA	O3'-P	11.18	1.74	1.61
11	AB	5369	DA	O3'-P	11.18	1.74	1.61
188	R7	17	DA	O3'-P	11.18	1.74	1.61
210	TC	10	DA	O3'-P	11.18	1.74	1.61
11	AB	5934	DA	O3'-P	11.18	1.74	1.61
11	AB	6236	DA	O3'-P	11.18	1.74	1.61
11	AB	6497	DA	O3'-P	11.18	1.74	1.61
11	AB	6563	DA	O3'-P	11.18	1.74	1.61
11	AB	6944	DA	O3'-P	11.18	1.74	1.61
42	D7	5	DT	O3'-P	11.18	1.74	1.61
62	F5	34	DA	O3'-P	11.18	1.74	1.61
68	FC	8	DA	O3'-P	11.18	1.74	1.61
74	G6	31	DA	O3'-P	11.18	1.74	1.61
94	I3	6	DA	O3'-P	11.18	1.74	1.61
105	J3	11	DA	O3'-P	11.18	1.74	1.61
211	TD	27	DA	O3'-P	11.18	1.74	1.61
180	Q8	17	DA	O3'-P	11.18	1.74	1.61
191	RA	30	DA	O3'-P	11.18	1.74	1.61
200	SA	19	DA	O3'-P	11.18	1.74	1.61
236	X5	14	DA	O3'-P	11.18	1.74	1.61
11	AB	598	DA	O3'-P	11.18	1.74	1.61
11	AB	619	DA	O3'-P	11.18	1.74	1.61
11	AB	729	DA	O3'-P	11.18	1.74	1.61
11	AB	979	DA	O3'-P	11.18	1.74	1.61
11	AB	1236	DT	O3'-P	11.18	1.74	1.61
11	AB	1253	DA	O3'-P	11.18	1.74	1.61
11	AB	1731	DA	O3'-P	11.18	1.74	1.61
222	V3	3	DA	O3'-P	11.18	1.74	1.61
11	AB	1410	DA	O3'-P	11.18	1.74	1.61
11	AB	1497	DA	O3'-P	11.18	1.74	1.61
11	AB	1565	DA	O3'-P	11.18	1.74	1.61
11	AB	2705	DA	O3'-P	11.18	1.74	1.61
11	AB	2710	DA	O3'-P	11.18	1.74	1.61
11	AB	3126	DA	O3'-P	11.18	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3693	DA	O3'-P	11.18	1.74	1.61
11	AB	5006	DA	O3'-P	11.18	1.74	1.61
11	AB	5138	DA	O3'-P	11.18	1.74	1.61
11	AB	5785	DA	O3'-P	11.18	1.74	1.61
11	AB	5786	DA	O3'-P	11.18	1.74	1.61
11	AB	5807	DA	O3'-P	11.18	1.74	1.61
11	AB	5876	DA	O3'-P	11.18	1.74	1.61
11	AB	6006	DA	O3'-P	11.18	1.74	1.61
11	AB	6586	DA	O3'-P	11.18	1.74	1.61
11	AB	6648	DA	O3'-P	11.18	1.74	1.61
11	AB	6801	DA	O3'-P	11.18	1.74	1.61
11	AB	7093	DA	O3'-P	11.18	1.74	1.61
21	B8	9	DA	O3'-P	11.18	1.74	1.61
19	B6	6	DA	O3'-P	11.18	1.74	1.61
44	D9	5	DA	O3'-P	11.18	1.74	1.61
62	F5	37	DA	O3'-P	11.18	1.74	1.61
44	D9	15	DA	O3'-P	11.18	1.74	1.61
63	F6	7	DA	O3'-P	11.18	1.74	1.61
72	G3	8	DA	O3'-P	11.18	1.74	1.61
77	G9	13	DA	O3'-P	11.18	1.74	1.61
94	I3	9	DA	O3'-P	11.18	1.74	1.61
109	J8	31	DA	O3'-P	11.18	1.74	1.61
110	J9	12	DA	O3'-P	11.18	1.74	1.61
126	L2	30	DA	O3'-P	11.18	1.74	1.61
132	L9	17	DA	O3'-P	11.18	1.74	1.61
189	R8	3	DA	O3'-P	11.18	1.74	1.61
137	M3	10	DA	O3'-P	11.18	1.74	1.61
143	MA	7	DA	O3'-P	11.18	1.74	1.61
149	N6	13	DA	O3'-P	11.18	1.74	1.61
156	O2	36	DA	O3'-P	11.18	1.74	1.61
165	OD	24	DA	O3'-P	11.18	1.74	1.61
189	R8	5	DA	O3'-P	11.18	1.74	1.61
199	S9	1	DA	O3'-P	11.18	1.74	1.61
229	VD	9	DA	O3'-P	11.18	1.74	1.61
191	RA	16	DA	O3'-P	11.18	1.74	1.61
209	TA	7	DA	O3'-P	11.18	1.74	1.61
211	TD	15	DA	O3'-P	11.18	1.74	1.61
215	U7	5	DA	O3'-P	11.18	1.74	1.61
216	U8	8	DA	O3'-P	11.18	1.74	1.61
222	V3	1	DA	O3'-P	11.18	1.74	1.61
226	V9	26	DA	O3'-P	11.18	1.74	1.61
11	AB	393	DA	O3'-P	11.17	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
50	E3	16	DA	O3'-P	11.17	1.74	1.61
2	A2	9	DA	O3'-P	11.17	1.74	1.61
11	AB	821	DA	O3'-P	11.17	1.74	1.61
11	AB	2003	DA	O3'-P	11.17	1.74	1.61
11	AB	3840	DA	O3'-P	11.17	1.74	1.61
11	AB	4723	DA	O3'-P	11.17	1.74	1.61
99	I9	4	DA	O3'-P	11.17	1.74	1.61
107	J6	29	DA	O3'-P	11.17	1.74	1.61
224	V7	7	DT	O3'-P	11.17	1.74	1.61
11	AB	2866	DA	O3'-P	11.17	1.74	1.61
11	AB	3286	DA	O3'-P	11.17	1.74	1.61
11	AB	3438	DA	O3'-P	11.17	1.74	1.61
75	G7	16	DA	O3'-P	11.17	1.74	1.61
158	O5	17	DA	O3'-P	11.17	1.74	1.61
11	AB	3692	DA	O3'-P	11.17	1.74	1.61
11	AB	4281	DA	O3'-P	11.17	1.74	1.61
11	AB	7042	DA	O3'-P	11.17	1.74	1.61
15	B2	5	DA	O3'-P	11.17	1.74	1.61
16	B3	7	DA	O3'-P	11.17	1.74	1.61
43	D8	43	DA	O3'-P	11.17	1.74	1.61
178	Q5	10	DA	O3'-P	11.17	1.74	1.61
107	J6	20	DA	O3'-P	11.17	1.74	1.61
129	L6	18	DA	O3'-P	11.17	1.74	1.61
130	L7	27	DA	O3'-P	11.17	1.74	1.61
138	M5	25	DA	O3'-P	11.17	1.74	1.61
157	O3	3	DA	O3'-P	11.17	1.74	1.61
162	O9	12	DA	O3'-P	11.17	1.74	1.61
206	T7	44	DA	O3'-P	11.17	1.74	1.61
222	V3	18	DA	O3'-P	11.17	1.74	1.61
11	AB	630	DA	O3'-P	11.17	1.74	1.61
11	AB	1218	DA	O3'-P	11.17	1.74	1.61
11	AB	1945	DA	O3'-P	11.17	1.74	1.61
11	AB	2114	DA	O3'-P	11.17	1.74	1.61
11	AB	2506	DA	O3'-P	11.17	1.74	1.61
11	AB	2989	DA	O3'-P	11.17	1.74	1.61
11	AB	3172	DA	O3'-P	11.17	1.74	1.61
11	AB	4721	DT	O3'-P	11.17	1.74	1.61
11	AB	5708	DA	O3'-P	11.17	1.74	1.61
11	AB	6094	DT	O3'-P	11.17	1.74	1.61
106	J5	25	DA	O3'-P	11.17	1.74	1.61
11	AB	6311	DA	O3'-P	11.17	1.74	1.61
37	D1	13	DA	O3'-P	11.17	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
89	HA	26	DA	O3'-P	11.17	1.74	1.61
107	J6	30	DA	O3'-P	11.17	1.74	1.61
130	L7	23	DA	O3'-P	11.17	1.74	1.61
137	M3	15	DA	O3'-P	11.17	1.74	1.61
142	M9	8	DA	O3'-P	11.17	1.74	1.61
183	QC	8	DA	O3'-P	11.17	1.74	1.61
185	R2	6	DA	O3'-P	11.17	1.74	1.61
189	R8	2	DA	O3'-P	11.17	1.74	1.61
194	S2	20	DA	O3'-P	11.17	1.74	1.61
198	S8	42	DA	O3'-P	11.17	1.74	1.61
223	V5	39	DA	O3'-P	11.17	1.74	1.61
11	AB	673	DA	O3'-P	11.17	1.74	1.61
11	AB	2694	DA	O3'-P	11.17	1.74	1.61
123	KC	8	DA	O3'-P	11.17	1.74	1.61
190	R9	9	DA	O3'-P	11.17	1.74	1.61
11	AB	1445	DA	O3'-P	11.17	1.74	1.61
11	AB	1582	DA	O3'-P	11.17	1.74	1.61
11	AB	2512	DA	O3'-P	11.17	1.74	1.61
11	AB	2810	DT	O3'-P	11.17	1.74	1.61
11	AB	2848	DT	O3'-P	11.17	1.74	1.61
11	AB	2870	DA	O3'-P	11.17	1.74	1.61
40	D5	14	DA	O3'-P	11.17	1.74	1.61
11	AB	2929	DA	O3'-P	11.17	1.74	1.61
11	AB	3507	DA	O3'-P	11.17	1.74	1.61
11	AB	4767	DA	O3'-P	11.17	1.74	1.61
11	AB	5878	DA	O3'-P	11.17	1.74	1.61
11	AB	6322	DA	O3'-P	11.17	1.74	1.61
13	AD	7	DA	O3'-P	11.17	1.74	1.61
17	B4	5	DA	O3'-P	11.17	1.74	1.61
72	G3	22	DA	O3'-P	11.17	1.74	1.61
139	M6	8	DA	O3'-P	11.17	1.74	1.61
161	O8	31	DA	O3'-P	11.17	1.74	1.61
29	C5	38	DA	O3'-P	11.17	1.74	1.61
30	C6	8	DA	O3'-P	11.17	1.74	1.61
47	DD	16	DA	O3'-P	11.17	1.74	1.61
47	DD	17	DA	O3'-P	11.17	1.74	1.61
55	E9	31	DA	O3'-P	11.17	1.74	1.61
60	F2	15	DA	O3'-P	11.17	1.74	1.61
188	R7	18	DA	O3'-P	11.17	1.74	1.61
197	S7	16	DA	O3'-P	11.17	1.74	1.61
220	UD	15	DA	O3'-P	11.17	1.74	1.61
225	V8	9	DA	O3'-P	11.17	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
65	F8	13	DA	O3'-P	11.17	1.74	1.61
85	H6	12	DA	O3'-P	11.17	1.74	1.61
121	K9	15	DA	O3'-P	11.17	1.74	1.61
236	X5	20	DA	O3'-P	11.17	1.74	1.61
3	A3	15	DA	O3'-P	11.16	1.74	1.61
10	AA	15	DA	O3'-P	11.16	1.74	1.61
11	AB	1401	DA	O3'-P	11.16	1.74	1.61
11	AB	1837	DA	O3'-P	11.16	1.74	1.61
11	AB	2200	DA	O3'-P	11.16	1.74	1.61
11	AB	6248	DA	O3'-P	11.16	1.74	1.61
4	A4	19	DA	O3'-P	11.16	1.74	1.61
11	AB	56	DA	O3'-P	11.16	1.74	1.61
11	AB	2701	DA	O3'-P	11.16	1.74	1.61
11	AB	3613	DA	O3'-P	11.16	1.74	1.61
11	AB	3787	DA	O3'-P	11.16	1.74	1.61
11	AB	5712	DA	O3'-P	11.16	1.74	1.61
109	J8	20	DA	O3'-P	11.16	1.74	1.61
123	KC	26	DA	O3'-P	11.16	1.74	1.61
157	O3	2	DA	O3'-P	11.16	1.74	1.61
11	AB	107	DA	O3'-P	11.16	1.74	1.61
11	AB	1515	DA	O3'-P	11.16	1.74	1.61
11	AB	1709	DA	O3'-P	11.16	1.74	1.61
11	AB	2104	DA	O3'-P	11.16	1.74	1.61
11	AB	2490	DA	O3'-P	11.16	1.74	1.61
11	AB	2586	DA	O3'-P	11.16	1.74	1.61
11	AB	2795	DA	O3'-P	11.16	1.74	1.61
11	AB	2807	DT	O3'-P	11.16	1.74	1.61
11	AB	2981	DA	O3'-P	11.16	1.74	1.61
11	AB	4234	DA	O3'-P	11.16	1.74	1.61
11	AB	5296	DA	O3'-P	11.16	1.74	1.61
11	AB	5320	DA	O3'-P	11.16	1.74	1.61
11	AB	5452	DA	O3'-P	11.16	1.74	1.61
11	AB	6092	DA	O3'-P	11.16	1.74	1.61
11	AB	6670	DA	O3'-P	11.16	1.74	1.61
11	AB	6748	DA	O3'-P	11.16	1.74	1.61
11	AB	6976	DA	O3'-P	11.16	1.74	1.61
23	BA	31	DA	O3'-P	11.16	1.74	1.61
36	CD	24	DA	O3'-P	11.16	1.74	1.61
47	DD	13	DA	O3'-P	11.16	1.74	1.61
49	E2	41	DA	O3'-P	11.16	1.74	1.61
61	F3	18	DA	O3'-P	11.16	1.74	1.61
109	J8	4	DA	O3'-P	11.16	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
152	N9	49	DA	O3'-P	11.16	1.74	1.61
120	K8	18	DA	O3'-P	11.16	1.74	1.61
129	L6	19	DT	O3'-P	11.16	1.74	1.61
130	L7	57	DA	O3'-P	11.16	1.74	1.61
224	V7	8	DA	O3'-P	11.16	1.74	1.61
226	V9	19	DA	O3'-P	11.16	1.74	1.61
8	A8	25	DT	O3'-P	11.16	1.74	1.61
11	AB	12	DA	O3'-P	11.16	1.74	1.61
11	AB	2841	DA	O3'-P	11.16	1.74	1.61
11	AB	5539	DA	O3'-P	11.16	1.74	1.61
11	AB	4416	DA	O3'-P	11.16	1.74	1.61
11	AB	5292	DA	O3'-P	11.16	1.74	1.61
11	AB	6012	DA	O3'-P	11.16	1.74	1.61
11	AB	6678	DA	O3'-P	11.16	1.74	1.61
11	AB	6867	DA	O3'-P	11.16	1.74	1.61
11	AB	6959	DA	O3'-P	11.16	1.74	1.61
11	AB	7203	DA	O3'-P	11.16	1.74	1.61
40	D5	7	DA	O3'-P	11.16	1.74	1.61
60	F2	17	DA	O3'-P	11.16	1.74	1.61
210	TC	14	DA	O3'-P	11.16	1.74	1.61
99	I9	5	DA	O3'-P	11.16	1.74	1.61
108	J7	26	DA	O3'-P	11.16	1.74	1.61
219	UC	14	DA	O3'-P	11.16	1.74	1.61
158	O5	22	DA	O3'-P	11.16	1.74	1.61
192	RC	24	DA	O3'-P	11.16	1.74	1.61
202	SD	17	DA	O3'-P	11.16	1.74	1.61
236	X5	22	DA	O3'-P	11.16	1.74	1.61
11	AB	230	DA	O3'-P	11.16	1.74	1.61
11	AB	238	DA	O3'-P	11.16	1.74	1.61
11	AB	692	DA	O3'-P	11.16	1.74	1.61
11	AB	775	DA	O3'-P	11.16	1.74	1.61
11	AB	1069	DA	O3'-P	11.16	1.74	1.61
11	AB	3279	DA	O3'-P	11.16	1.74	1.61
11	AB	6233	DA	O3'-P	11.16	1.74	1.61
152	N9	48	DA	O3'-P	11.16	1.74	1.61
11	AB	1171	DA	O3'-P	11.16	1.74	1.61
11	AB	2188	DA	O3'-P	11.16	1.74	1.61
11	AB	2484	DA	O3'-P	11.16	1.74	1.61
11	AB	2576	DA	O3'-P	11.16	1.74	1.61
11	AB	2581	DA	O3'-P	11.16	1.74	1.61
11	AB	3108	DA	O3'-P	11.16	1.74	1.61
11	AB	3118	DA	O3'-P	11.16	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3189	DA	O3'-P	11.16	1.74	1.61
11	AB	3203	DA	O3'-P	11.16	1.74	1.61
11	AB	3563	DT	O3'-P	11.16	1.74	1.61
11	AB	4412	DA	O3'-P	11.16	1.74	1.61
11	AB	5294	DA	O3'-P	11.16	1.74	1.61
11	AB	5515	DA	O3'-P	11.16	1.74	1.61
11	AB	5928	DA	O3'-P	11.16	1.74	1.61
11	AB	6403	DA	O3'-P	11.16	1.74	1.61
29	C5	36	DA	O3'-P	11.16	1.74	1.61
41	D6	29	DA	O3'-P	11.16	1.74	1.61
80	GD	10	DA	O3'-P	11.16	1.74	1.61
94	I3	8	DA	O3'-P	11.16	1.74	1.61
94	I3	22	DA	O3'-P	11.16	1.74	1.61
122	KA	34	DA	O3'-P	11.16	1.74	1.61
131	L8	9	DA	O3'-P	11.16	1.74	1.61
149	N6	17	DA	O3'-P	11.16	1.74	1.61
192	RC	25	DA	O3'-P	11.16	1.74	1.61
224	V7	10	DA	O3'-P	11.16	1.74	1.61
228	VC	22	DA	O3'-P	11.16	1.74	1.61
11	AB	1374	DA	O3'-P	11.15	1.74	1.61
11	AB	2068	DA	O3'-P	11.15	1.74	1.61
84	H5	11	DA	O3'-P	11.15	1.74	1.61
209	TA	10	DA	O3'-P	11.15	1.74	1.61
210	TC	9	DA	O3'-P	11.15	1.74	1.61
11	AB	401	DA	O3'-P	11.15	1.74	1.61
11	AB	811	DA	O3'-P	11.15	1.74	1.61
11	AB	1134	DA	O3'-P	11.15	1.74	1.61
11	AB	2283	DA	O3'-P	11.15	1.74	1.61
11	AB	2410	DA	O3'-P	11.15	1.74	1.61
11	AB	2600	DA	O3'-P	11.15	1.74	1.61
11	AB	2808	DA	O3'-P	11.15	1.74	1.61
11	AB	2998	DA	O3'-P	11.15	1.74	1.61
11	AB	3016	DT	O3'-P	11.15	1.74	1.61
11	AB	3025	DA	O3'-P	11.15	1.74	1.61
11	AB	3173	DA	O3'-P	11.15	1.74	1.61
11	AB	3298	DA	O3'-P	11.15	1.74	1.61
11	AB	4424	DT	O3'-P	11.15	1.74	1.61
11	AB	4619	DA	O3'-P	11.15	1.74	1.61
11	AB	5691	DA	O3'-P	11.15	1.74	1.61
11	AB	5872	DA	O3'-P	11.15	1.74	1.61
11	AB	6643	DA	O3'-P	11.15	1.74	1.61
11	AB	7048	DT	O3'-P	11.15	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	7212	DA	O3'-P	11.15	1.74	1.61
16	B3	10	DA	O3'-P	11.15	1.74	1.61
27	C2	18	DA	O3'-P	11.15	1.74	1.61
123	KC	9	DA	O3'-P	11.15	1.74	1.61
40	D5	10	DA	O3'-P	11.15	1.74	1.61
58	ED	27	DT	O3'-P	11.15	1.74	1.61
67	FA	9	DA	O3'-P	11.15	1.74	1.61
67	FA	13	DA	O3'-P	11.15	1.74	1.61
88	H9	8	DA	O3'-P	11.15	1.74	1.61
95	I5	8	DA	O3'-P	11.15	1.74	1.61
111	JA	7	DA	O3'-P	11.15	1.74	1.61
108	J7	32	DA	O3'-P	11.15	1.74	1.61
115	K2	25	DA	O3'-P	11.15	1.74	1.61
116	K3	18	DA	O3'-P	11.15	1.74	1.61
119	K7	23	DA	O3'-P	11.15	1.74	1.61
146	N2	20	DA	O3'-P	11.15	1.74	1.61
165	OD	48	DA	O3'-P	11.15	1.74	1.61
142	M9	7	DA	O3'-P	11.15	1.74	1.61
155	ND	18	DA	O3'-P	11.15	1.74	1.61
157	O3	8	DA	O3'-P	11.15	1.74	1.61
165	OD	13	DA	O3'-P	11.15	1.74	1.61
166	P2	14	DT	O3'-P	11.15	1.74	1.61
170	P7	10	DA	O3'-P	11.15	1.74	1.61
196	S5	27	DA	O3'-P	11.15	1.74	1.61
219	UC	22	DA	O3'-P	11.15	1.74	1.61
220	UD	4	DA	O3'-P	11.15	1.74	1.61
223	V5	17	DA	O3'-P	11.15	1.74	1.61
1	A1	39	DA	O3'-P	11.15	1.74	1.61
11	AB	629	DA	O3'-P	11.15	1.74	1.61
11	AB	973	DA	O3'-P	11.15	1.74	1.61
11	AB	1538	DA	O3'-P	11.15	1.74	1.61
11	AB	2085	DA	O3'-P	11.15	1.74	1.61
34	CA	2	DA	O3'-P	11.15	1.74	1.61
11	AB	2120	DA	O3'-P	11.15	1.74	1.61
11	AB	2802	DA	O3'-P	11.15	1.74	1.61
11	AB	4439	DA	O3'-P	11.15	1.74	1.61
11	AB	5162	DA	O3'-P	11.15	1.74	1.61
11	AB	5921	DA	O3'-P	11.15	1.74	1.61
11	AB	5997	DT	O3'-P	11.15	1.74	1.61
11	AB	6802	DT	O3'-P	11.15	1.74	1.61
11	AB	6955	DA	O3'-P	11.15	1.74	1.61
32	C8	16	DA	O3'-P	11.15	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	AC	11	DA	O3'-P	11.15	1.74	1.61
58	ED	25	DA	O3'-P	11.15	1.74	1.61
68	FC	9	DT	O3'-P	11.15	1.74	1.61
107	J6	32	DA	O3'-P	11.15	1.74	1.61
114	K1	12	DA	O3'-P	11.15	1.74	1.61
130	L7	39	DA	O3'-P	11.15	1.74	1.61
145	MD	28	DA	O3'-P	11.15	1.74	1.61
154	NC	37	DA	O3'-P	11.15	1.74	1.61
181	Q9	13	DA	O3'-P	11.15	1.74	1.61
221	V2	17	DT	O3'-P	11.15	1.74	1.61
230	W3	44	DA	O3'-P	11.15	1.74	1.61
11	AB	1424	DA	O3'-P	11.15	1.74	1.61
168	P5	11	DT	O3'-P	11.15	1.74	1.61
11	AB	723	DA	O3'-P	11.15	1.74	1.61
11	AB	1393	DT	O3'-P	11.15	1.74	1.61
11	AB	1969	DT	O3'-P	11.15	1.74	1.61
11	AB	2492	DA	O3'-P	11.15	1.74	1.61
11	AB	3024	DA	O3'-P	11.15	1.74	1.61
11	AB	3304	DT	O3'-P	11.15	1.74	1.61
11	AB	4377	DA	O3'-P	11.15	1.74	1.61
11	AB	5706	DA	O3'-P	11.15	1.74	1.61
11	AB	5723	DA	O3'-P	11.15	1.74	1.61
35	CC	8	DA	O3'-P	11.15	1.74	1.61
40	D5	8	DA	O3'-P	11.15	1.74	1.61
55	E9	15	DA	O3'-P	11.15	1.74	1.61
112	JC	17	DT	O3'-P	11.15	1.74	1.61
188	R7	16	DA	O3'-P	11.15	1.74	1.61
208	T9	16	DA	O3'-P	11.15	1.74	1.61
11	AB	3439	DT	O3'-P	11.15	1.74	1.61
11	AB	3481	DA	O3'-P	11.15	1.74	1.61
62	F5	5	DA	O3'-P	11.15	1.74	1.61
203	T2	6	DT	O3'-P	11.15	1.74	1.61
11	AB	5130	DA	O3'-P	11.15	1.74	1.61
11	AB	6814	DA	O3'-P	11.15	1.74	1.61
15	B2	10	DA	O3'-P	11.15	1.74	1.61
152	N9	14	DA	O3'-P	11.15	1.74	1.61
152	N9	15	DA	O3'-P	11.15	1.74	1.61
183	QC	13	DA	O3'-P	11.15	1.74	1.61
223	V5	19	DA	O3'-P	11.15	1.74	1.61
11	AB	402	DA	O3'-P	11.14	1.74	1.61
11	AB	532	DA	O3'-P	11.14	1.74	1.61
11	AB	1732	DA	O3'-P	11.14	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
53	E7	14	DA	O3'-P	11.14	1.74	1.61
2	A2	1	DA	O3'-P	11.14	1.74	1.61
11	AB	690	DA	O3'-P	11.14	1.74	1.61
11	AB	1549	DA	O3'-P	11.14	1.74	1.61
11	AB	2404	DA	O3'-P	11.14	1.74	1.61
11	AB	3061	DA	O3'-P	11.14	1.74	1.61
11	AB	3282	DA	O3'-P	11.14	1.74	1.61
11	AB	3558	DA	O3'-P	11.14	1.74	1.61
11	AB	4418	DA	O3'-P	11.14	1.74	1.61
11	AB	5232	DA	O3'-P	11.14	1.74	1.61
11	AB	5417	DA	O3'-P	11.14	1.74	1.61
65	F8	15	DA	O3'-P	11.14	1.74	1.61
72	G3	17	DA	O3'-P	11.14	1.74	1.61
138	M5	21	DA	O3'-P	11.14	1.74	1.61
11	AB	5654	DA	O3'-P	11.14	1.74	1.61
15	B2	6	DA	O3'-P	11.14	1.74	1.61
23	BA	13	DA	O3'-P	11.14	1.74	1.61
89	HA	5	DA	O3'-P	11.14	1.74	1.61
149	N6	33	DA	O3'-P	11.14	1.74	1.61
110	J9	11	DA	O3'-P	11.14	1.74	1.61
162	O9	11	DA	O3'-P	11.14	1.74	1.61
177	Q3	16	DA	O3'-P	11.14	1.74	1.61
185	R2	1	DT	O3'-P	11.14	1.74	1.61
189	R8	11	DA	O3'-P	11.14	1.74	1.61
229	VD	1	DA	O3'-P	11.14	1.74	1.61
235	WD	6	DA	O3'-P	11.14	1.74	1.61
11	AB	1320	DA	O3'-P	11.14	1.74	1.61
11	AB	1509	DT	O3'-P	11.14	1.74	1.61
11	AB	1323	DA	O3'-P	11.14	1.74	1.61
11	AB	2813	DA	O3'-P	11.14	1.74	1.61
11	AB	3137	DA	O3'-P	11.14	1.74	1.61
11	AB	4348	DT	O3'-P	11.14	1.74	1.61
11	AB	4796	DA	O3'-P	11.14	1.74	1.61
11	AB	5315	DA	O3'-P	11.14	1.74	1.61
11	AB	5725	DA	O3'-P	11.14	1.74	1.61
27	C2	17	DA	O3'-P	11.14	1.74	1.61
11	AB	6666	DA	O3'-P	11.14	1.74	1.61
39	D3	30	DA	O3'-P	11.14	1.74	1.61
49	E2	14	DA	O3'-P	11.14	1.74	1.61
51	E5	19	DA	O3'-P	11.14	1.74	1.61
71	G2	11	DA	O3'-P	11.14	1.74	1.61
83	H3	22	DA	O3'-P	11.14	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
103	J1	18	DA	O3'-P	11.14	1.74	1.61
183	QC	14	DA	O3'-P	11.14	1.74	1.61
107	J6	5	DA	O3'-P	11.14	1.74	1.61
108	J7	47	DA	O3'-P	11.14	1.74	1.61
109	J8	6	DA	O3'-P	11.14	1.74	1.61
123	KC	7	DA	O3'-P	11.14	1.74	1.61
130	L7	12	DA	O3'-P	11.14	1.74	1.61
160	O7	49	DA	O3'-P	11.14	1.74	1.61
179	Q7	16	DA	O3'-P	11.14	1.74	1.61
216	U8	2	DA	O3'-P	11.14	1.74	1.61
11	AB	615	DA	O3'-P	11.14	1.74	1.61
11	AB	1219	DA	O3'-P	11.14	1.74	1.61
173	PA	16	DT	O3'-P	11.14	1.74	1.61
189	R8	1	DA	O3'-P	11.14	1.74	1.61
11	AB	1870	DA	O3'-P	11.14	1.74	1.61
11	AB	1963	DA	O3'-P	11.14	1.74	1.61
11	AB	2407	DA	O3'-P	11.14	1.74	1.61
11	AB	2709	DA	O3'-P	11.14	1.74	1.61
11	AB	2970	DA	O3'-P	11.14	1.74	1.61
11	AB	3000	DT	O3'-P	11.14	1.74	1.61
11	AB	3125	DA	O3'-P	11.14	1.74	1.61
11	AB	3176	DA	O3'-P	11.14	1.74	1.61
11	AB	3708	DT	O3'-P	11.14	1.74	1.61
11	AB	4955	DA	O3'-P	11.14	1.74	1.61
11	AB	3932	DA	O3'-P	11.14	1.74	1.61
11	AB	5514	DA	O3'-P	11.14	1.74	1.61
11	AB	5652	DA	O3'-P	11.14	1.74	1.61
11	AB	6501	DA	O3'-P	11.14	1.74	1.61
11	AB	6739	DA	O3'-P	11.14	1.74	1.61
48	E1	19	DA	O3'-P	11.14	1.74	1.61
64	F7	26	DA	O3'-P	11.14	1.74	1.61
72	G3	6	DA	O3'-P	11.14	1.74	1.61
158	O5	28	DA	O3'-P	11.14	1.74	1.61
89	HA	9	DA	O3'-P	11.14	1.74	1.61
124	KD	12	DA	O3'-P	11.14	1.74	1.61
125	L1	16	DA	O3'-P	11.14	1.74	1.61
158	O5	33	DA	O3'-P	11.14	1.74	1.61
184	QD	17	DA	O3'-P	11.14	1.74	1.61
210	TC	17	DA	O3'-P	11.14	1.74	1.61
212	U2	14	DA	O3'-P	11.14	1.74	1.61
11	AB	258	DA	O3'-P	11.14	1.74	1.61
11	AB	400	DA	O3'-P	11.13	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	653	DT	O3'-P	11.13	1.74	1.61
11	AB	695	DT	O3'-P	11.14	1.74	1.61
11	AB	1822	DT	O3'-P	11.13	1.74	1.61
11	AB	2220	DA	O3'-P	11.13	1.74	1.61
11	AB	2268	DA	O3'-P	11.14	1.74	1.61
11	AB	2419	DT	O3'-P	11.14	1.74	1.61
11	AB	2546	DA	O3'-P	11.14	1.74	1.61
11	AB	3005	DT	O3'-P	11.14	1.74	1.61
11	AB	4994	DT	O3'-P	11.14	1.74	1.61
11	AB	5293	DA	O3'-P	11.14	1.74	1.61
11	AB	5314	DA	O3'-P	11.14	1.74	1.61
11	AB	5385	DT	O3'-P	11.14	1.74	1.61
132	L9	7	DA	O3'-P	11.14	1.74	1.61
147	N3	8	DA	O3'-P	11.14	1.74	1.61
160	O7	51	DT	O3'-P	11.14	1.74	1.61
11	AB	2505	DT	O3'-P	11.13	1.74	1.61
11	AB	4536	DT	O3'-P	11.13	1.74	1.61
11	AB	6483	DT	O3'-P	11.13	1.74	1.61
55	E9	7	DA	O3'-P	11.14	1.74	1.61
67	FA	23	DT	O3'-P	11.14	1.74	1.61
70	G1	12	DA	O3'-P	11.14	1.74	1.61
103	J1	19	DA	O3'-P	11.14	1.74	1.61
29	C5	21	DA	O3'-P	11.13	1.74	1.61
109	J8	16	DA	O3'-P	11.13	1.74	1.61
119	K7	36	DA	O3'-P	11.13	1.74	1.61
122	KA	16	DA	O3'-P	11.13	1.74	1.61
138	M5	41	DA	O3'-P	11.13	1.74	1.61
161	O8	1	DA	O3'-P	11.13	1.74	1.61
165	OD	45	DA	O3'-P	11.13	1.74	1.61
208	T9	7	DA	O3'-P	11.14	1.74	1.61
220	UD	14	DA	O3'-P	11.14	1.74	1.61
11	AB	814	DA	O3'-P	11.13	1.74	1.61
11	AB	2201	DT	O3'-P	11.13	1.74	1.61
11	AB	3574	DA	O3'-P	11.13	1.74	1.61
11	AB	5692	DA	O3'-P	11.13	1.74	1.61
87	H8	6	DT	O3'-P	11.13	1.74	1.61
138	M5	17	DA	O3'-P	11.13	1.74	1.61
11	AB	820	DA	O3'-P	11.13	1.74	1.61
11	AB	965	DT	O3'-P	11.13	1.74	1.61
11	AB	1221	DA	O3'-P	11.13	1.74	1.61
11	AB	1952	DT	O3'-P	11.13	1.74	1.61
11	AB	3083	DA	O3'-P	11.13	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3670	DA	O3'-P	11.13	1.74	1.61
11	AB	5312	DA	O3'-P	11.13	1.74	1.61
206	T7	43	DA	O3'-P	11.13	1.74	1.61
11	AB	1231	DA	O3'-P	11.13	1.74	1.61
11	AB	1529	DA	O3'-P	11.13	1.74	1.61
11	AB	1986	DA	O3'-P	11.13	1.74	1.61
11	AB	2504	DA	O3'-P	11.13	1.74	1.61
11	AB	2598	DA	O3'-P	11.13	1.74	1.61
11	AB	2601	DA	O3'-P	11.13	1.74	1.61
11	AB	2700	DA	O3'-P	11.13	1.74	1.61
11	AB	2796	DA	O3'-P	11.13	1.74	1.61
11	AB	3532	DA	O3'-P	11.13	1.74	1.61
11	AB	6096	DA	O3'-P	11.13	1.74	1.61
172	P9	9	DA	O3'-P	11.13	1.74	1.61
198	S8	39	DA	O3'-P	11.13	1.74	1.61
11	AB	3573	DA	O3'-P	11.13	1.74	1.61
11	AB	4432	DA	O3'-P	11.13	1.74	1.61
11	AB	4521	DA	O3'-P	11.13	1.74	1.61
11	AB	5226	DA	O3'-P	11.13	1.74	1.61
11	AB	5295	DA	O3'-P	11.13	1.74	1.61
11	AB	5373	DA	O3'-P	11.13	1.74	1.61
11	AB	5516	DA	O3'-P	11.13	1.74	1.61
11	AB	5920	DA	O3'-P	11.13	1.74	1.61
11	AB	6160	DA	O3'-P	11.13	1.74	1.61
11	AB	6404	DA	O3'-P	11.13	1.74	1.61
11	AB	6798	DA	O3'-P	11.13	1.74	1.61
13	AD	20	DT	O3'-P	11.13	1.74	1.61
101	IC	11	DA	O3'-P	11.13	1.74	1.61
53	E7	8	DA	O3'-P	11.13	1.74	1.61
91	HD	6	DA	O3'-P	11.13	1.74	1.61
92	I1	6	DA	O3'-P	11.13	1.74	1.61
93	I2	16	DA	O3'-P	11.13	1.74	1.61
107	J6	16	DA	O3'-P	11.13	1.74	1.61
112	JC	24	DA	O3'-P	11.13	1.74	1.61
130	L7	26	DA	O3'-P	11.13	1.74	1.61
107	J6	19	DA	O3'-P	11.13	1.74	1.61
124	KD	11	DA	O3'-P	11.13	1.74	1.61
126	L2	52	DA	O3'-P	11.13	1.74	1.61
160	O7	38	DA	O3'-P	11.13	1.74	1.61
165	OD	12	DA	O3'-P	11.13	1.74	1.61
175	PD	22	DA	O3'-P	11.13	1.74	1.61
184	QD	16	DA	O3'-P	11.13	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
185	R2	21	DA	O3'-P	11.13	1.74	1.61
198	S8	15	DA	O3'-P	11.13	1.74	1.61
207	T8	5	DA	O3'-P	11.13	1.74	1.61
221	V2	25	DA	O3'-P	11.13	1.74	1.61
238	X9	57	DA	O3'-P	11.13	1.74	1.61
11	AB	2849	DT	O3'-P	11.13	1.74	1.61
11	AB	3102	DA	O3'-P	11.13	1.74	1.61
11	AB	3783	DT	O3'-P	11.13	1.74	1.61
11	AB	4939	DT	O3'-P	11.13	1.74	1.61
11	AB	5117	DA	O3'-P	11.13	1.74	1.61
3	A3	5	DA	O3'-P	11.13	1.74	1.61
11	AB	724	DA	O3'-P	11.13	1.74	1.61
11	AB	1358	DA	O3'-P	11.13	1.74	1.61
11	AB	2191	DA	O3'-P	11.13	1.74	1.61
11	AB	2566	DA	O3'-P	11.13	1.74	1.61
11	AB	2599	DA	O3'-P	11.13	1.74	1.61
11	AB	3931	DA	O3'-P	11.13	1.74	1.61
11	AB	4738	DA	O3'-P	11.13	1.74	1.61
11	AB	5873	DA	O3'-P	11.13	1.74	1.61
11	AB	6045	DA	O3'-P	11.13	1.74	1.61
11	AB	6083	DA	O3'-P	11.13	1.74	1.61
11	AB	6402	DA	O3'-P	11.13	1.74	1.61
44	D9	14	DA	O3'-P	11.13	1.74	1.61
80	GD	9	DA	O3'-P	11.13	1.74	1.61
130	L7	44	DA	O3'-P	11.13	1.74	1.61
137	M3	20	DA	O3'-P	11.13	1.74	1.61
163	OA	5	DA	O3'-P	11.13	1.74	1.61
202	SD	27	DA	O3'-P	11.13	1.74	1.61
206	T7	27	DA	O3'-P	11.13	1.74	1.61
11	AB	181	DT	O3'-P	11.12	1.74	1.61
11	AB	217	DA	O3'-P	11.12	1.74	1.61
11	AB	561	DA	O3'-P	11.12	1.74	1.61
11	AB	1712	DT	O3'-P	11.12	1.74	1.61
11	AB	1947	DA	O3'-P	11.12	1.74	1.61
11	AB	2197	DT	O3'-P	11.12	1.74	1.61
11	AB	2507	DT	O3'-P	11.12	1.74	1.61
203	T2	8	DT	O3'-P	11.13	1.74	1.61
11	AB	3354	DT	O3'-P	11.12	1.74	1.61
30	C6	38	DA	O3'-P	11.12	1.74	1.61
35	CC	13	DT	O3'-P	11.12	1.74	1.61
42	D7	2	DA	O3'-P	11.12	1.74	1.61
62	F5	21	DT	O3'-P	11.12	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
129	L6	17	DA	O3'-P	11.12	1.74	1.61
177	Q3	10	DT	O3'-P	11.12	1.74	1.61
203	T2	7	DT	O3'-P	11.12	1.74	1.61
221	V2	22	DT	O3'-P	11.12	1.74	1.61
238	X9	18	DA	O3'-P	11.12	1.74	1.61
2	A2	8	DA	O3'-P	11.12	1.74	1.61
2	A2	19	DA	O3'-P	11.12	1.74	1.61
4	A4	31	DA	O3'-P	11.12	1.74	1.61
11	AB	755	DA	O3'-P	11.12	1.74	1.61
11	AB	793	DA	O3'-P	11.12	1.74	1.61
11	AB	1110	DA	O3'-P	11.12	1.74	1.61
11	AB	1331	DA	O3'-P	11.12	1.74	1.61
11	AB	1605	DA	O3'-P	11.12	1.74	1.61
11	AB	1179	DA	O3'-P	11.12	1.74	1.61
11	AB	1699	DA	O3'-P	11.12	1.74	1.61
11	AB	1736	DA	O3'-P	11.12	1.74	1.61
11	AB	1762	DA	O3'-P	11.12	1.74	1.61
11	AB	2755	DA	O3'-P	11.12	1.74	1.61
11	AB	2830	DT	O3'-P	11.12	1.74	1.61
11	AB	3089	DA	O3'-P	11.12	1.74	1.61
11	AB	5307	DT	O3'-P	11.12	1.74	1.61
11	AB	5729	DT	O3'-P	11.12	1.74	1.61
11	AB	6032	DA	O3'-P	11.12	1.74	1.61
11	AB	6332	DA	O3'-P	11.12	1.74	1.61
11	AB	1841	DA	O3'-P	11.12	1.74	1.61
11	AB	2308	DA	O3'-P	11.12	1.74	1.61
11	AB	3400	DA	O3'-P	11.12	1.74	1.61
11	AB	5264	DA	O3'-P	11.12	1.74	1.61
11	AB	5285	DA	O3'-P	11.12	1.74	1.61
11	AB	4120	DT	O3'-P	11.12	1.74	1.61
11	AB	5286	DT	O3'-P	11.12	1.74	1.61
11	AB	5622	DT	O3'-P	11.12	1.74	1.61
11	AB	6256	DA	O3'-P	11.12	1.74	1.61
11	AB	6957	DT	O3'-P	11.12	1.74	1.61
11	AB	7087	DT	O3'-P	11.12	1.74	1.61
36	CD	16	DT	O3'-P	11.12	1.74	1.61
31	C7	11	DT	O3'-P	11.12	1.74	1.61
44	D9	2	DA	O3'-P	11.12	1.74	1.61
51	E5	18	DA	O3'-P	11.12	1.74	1.61
69	FD	22	DT	O3'-P	11.12	1.74	1.61
76	G8	16	DT	O3'-P	11.12	1.74	1.61
86	H7	9	DT	O3'-P	11.12	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
134	LC	14	DA	O3'-P	11.12	1.74	1.61
149	N6	4	DT	O3'-P	11.12	1.74	1.61
87	H8	16	DT	O3'-P	11.12	1.74	1.61
94	I3	12	DA	O3'-P	11.12	1.74	1.61
101	IC	15	DA	O3'-P	11.12	1.74	1.61
132	L9	18	DT	O3'-P	11.12	1.74	1.61
136	M2	20	DA	O3'-P	11.12	1.74	1.61
166	P2	7	DT	O3'-P	11.12	1.74	1.61
216	U8	9	DT	O3'-P	11.12	1.74	1.61
224	V7	9	DA	O3'-P	11.12	1.74	1.61
226	V9	6	DA	O3'-P	11.12	1.74	1.61
1	A1	8	DA	O3'-P	11.12	1.74	1.61
7	A7	9	DA	O3'-P	11.12	1.74	1.61
11	AB	94	DA	O3'-P	11.12	1.74	1.61
11	AB	301	DA	O3'-P	11.12	1.74	1.61
11	AB	1062	DA	O3'-P	11.12	1.74	1.61
11	AB	1301	DA	O3'-P	11.12	1.74	1.61
11	AB	1360	DA	O3'-P	11.12	1.74	1.61
11	AB	2458	DA	O3'-P	11.12	1.74	1.61
11	AB	3658	DA	O3'-P	11.12	1.74	1.61
11	AB	5236	DA	O3'-P	11.12	1.74	1.61
11	AB	6481	DA	O3'-P	11.12	1.74	1.61
54	E8	19	DT	O3'-P	11.12	1.74	1.61
190	R9	42	DA	O3'-P	11.12	1.74	1.61
11	AB	492	DA	O3'-P	11.12	1.74	1.61
11	AB	2871	DT	O3'-P	11.12	1.74	1.61
11	AB	2978	DT	O3'-P	11.12	1.74	1.61
11	AB	3504	DT	O3'-P	11.12	1.74	1.61
11	AB	3845	DA	O3'-P	11.12	1.74	1.61
11	AB	3934	DA	O3'-P	11.12	1.74	1.61
11	AB	4852	DA	O3'-P	11.12	1.74	1.61
11	AB	6640	DA	O3'-P	11.12	1.74	1.61
11	AB	6641	DA	O3'-P	11.12	1.74	1.61
11	AB	6662	DA	O3'-P	11.12	1.74	1.61
11	AB	6698	DA	O3'-P	11.12	1.74	1.61
74	G6	26	DA	O3'-P	11.12	1.74	1.61
130	L7	40	DA	O3'-P	11.12	1.74	1.61
11	AB	5540	DA	O3'-P	11.12	1.74	1.61
11	AB	6247	DA	O3'-P	11.12	1.74	1.61
11	AB	6597	DT	O3'-P	11.12	1.74	1.61
11	AB	6803	DT	O3'-P	11.12	1.74	1.61
81	H1	17	DA	O3'-P	11.12	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
81	H1	20	DA	O3'-P	11.12	1.74	1.61
98	I8	10	DA	O3'-P	11.12	1.74	1.61
129	L6	26	DA	O3'-P	11.12	1.74	1.61
141	M8	10	DA	O3'-P	11.12	1.74	1.61
171	P8	25	DA	O3'-P	11.12	1.74	1.61
11	AB	6868	DA	O3'-P	11.12	1.74	1.61
103	J1	10	DA	O3'-P	11.12	1.74	1.61
138	M5	8	DA	O3'-P	11.12	1.74	1.61
156	O2	24	DA	O3'-P	11.12	1.74	1.61
213	U3	17	DT	O3'-P	11.12	1.74	1.61
11	AB	7026	DA	O3'-P	11.12	1.74	1.61
75	G7	17	DA	O3'-P	11.12	1.74	1.61
87	H8	8	DA	O3'-P	11.12	1.74	1.61
118	K6	7	DT	O3'-P	11.12	1.74	1.61
144	MC	15	DT	O3'-P	11.12	1.74	1.61
173	PA	5	DA	O3'-P	11.12	1.74	1.61
174	PC	21	DT	O3'-P	11.12	1.74	1.61
214	U5	34	DA	O3'-P	11.12	1.74	1.61
223	V5	18	DA	O3'-P	11.12	1.74	1.61
11	AB	23	DA	O3'-P	11.12	1.74	1.61
11	AB	244	DA	O3'-P	11.12	1.74	1.61
11	AB	5274	DA	O3'-P	11.12	1.74	1.61
11	AB	6014	DA	O3'-P	11.12	1.74	1.61
6	A6	18	DA	O3'-P	11.11	1.74	1.61
11	AB	797	DA	O3'-P	11.11	1.74	1.61
11	AB	849	DA	O3'-P	11.12	1.74	1.61
11	AB	1204	DA	O3'-P	11.12	1.74	1.61
89	HA	8	DA	O3'-P	11.12	1.74	1.61
185	R2	22	DT	O3'-P	11.12	1.74	1.61
185	R2	23	DA	O3'-P	11.12	1.74	1.61
190	R9	35	DA	O3'-P	11.12	1.74	1.61
11	AB	1427	DA	O3'-P	11.11	1.74	1.61
11	AB	2284	DA	O3'-P	11.11	1.74	1.61
11	AB	2494	DT	O3'-P	11.11	1.74	1.61
11	AB	2689	DA	O3'-P	11.11	1.74	1.61
11	AB	2864	DA	O3'-P	11.11	1.74	1.61
11	AB	3245	DT	O3'-P	11.12	1.74	1.61
11	AB	3799	DA	O3'-P	11.11	1.74	1.61
11	AB	4285	DT	O3'-P	11.11	1.74	1.61
11	AB	6319	DA	O3'-P	11.11	1.74	1.61
62	F5	27	DA	O3'-P	11.12	1.74	1.61
74	G6	18	DA	O3'-P	11.11	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
108	J7	2	DA	O3'-P	11.11	1.74	1.61
165	OD	17	DA	O3'-P	11.12	1.74	1.61
167	P3	5	DA	O3'-P	11.12	1.74	1.61
190	R9	36	DT	O3'-P	11.11	1.74	1.61
216	U8	3	DA	O3'-P	11.11	1.74	1.61
1	A1	24	DA	O3'-P	11.11	1.74	1.61
10	AA	14	DA	O3'-P	11.11	1.74	1.61
11	AB	214	DT	O3'-P	11.11	1.74	1.61
11	AB	508	DA	O3'-P	11.11	1.74	1.61
11	AB	616	DA	O3'-P	11.11	1.74	1.61
11	AB	1023	DA	O3'-P	11.11	1.74	1.61
11	AB	1102	DA	O3'-P	11.11	1.74	1.61
11	AB	4308	DA	O3'-P	11.11	1.74	1.61
11	AB	1224	DT	O3'-P	11.11	1.74	1.61
11	AB	1234	DA	O3'-P	11.11	1.74	1.61
11	AB	1876	DA	O3'-P	11.11	1.74	1.61
11	AB	3009	DT	O3'-P	11.11	1.74	1.61
11	AB	2834	DT	O3'-P	11.11	1.74	1.61
11	AB	3188	DA	O3'-P	11.11	1.74	1.61
11	AB	3435	DT	O3'-P	11.11	1.74	1.61
11	AB	4425	DT	O3'-P	11.11	1.74	1.61
11	AB	4528	DA	O3'-P	11.11	1.74	1.61
11	AB	4824	DA	O3'-P	11.11	1.74	1.61
11	AB	5172	DA	O3'-P	11.11	1.74	1.61
105	J3	19	DT	O3'-P	11.11	1.74	1.61
11	AB	5607	DT	O3'-P	11.11	1.74	1.61
11	AB	5871	DA	O3'-P	11.11	1.74	1.61
11	AB	5927	DA	O3'-P	11.11	1.74	1.61
11	AB	6175	DT	O3'-P	11.11	1.74	1.61
11	AB	6235	DA	O3'-P	11.11	1.74	1.61
11	AB	6589	DA	O3'-P	11.11	1.74	1.61
11	AB	6638	DT	O3'-P	11.11	1.74	1.61
11	AB	6650	DA	O3'-P	11.11	1.74	1.61
11	AB	7223	DA	O3'-P	11.11	1.74	1.61
14	B1	11	DT	O3'-P	11.11	1.74	1.61
25	BD	19	DA	O3'-P	11.11	1.74	1.61
36	CD	20	DT	O3'-P	11.11	1.74	1.61
69	FD	23	DA	O3'-P	11.11	1.74	1.61
78	GA	17	DA	O3'-P	11.11	1.74	1.61
91	HD	8	DA	O3'-P	11.11	1.74	1.61
98	I8	22	DA	O3'-P	11.11	1.74	1.61
105	J3	6	DT	O3'-P	11.11	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
105	J3	12	DT	O3'-P	11.11	1.74	1.61
119	K7	5	DA	O3'-P	11.11	1.74	1.61
124	KD	2	DA	O3'-P	11.11	1.74	1.61
130	L7	53	DA	O3'-P	11.11	1.74	1.61
131	L8	15	DA	O3'-P	11.11	1.74	1.61
188	R7	21	DA	O3'-P	11.11	1.74	1.61
193	RD	12	DT	O3'-P	11.11	1.74	1.61
196	S5	26	DA	O3'-P	11.11	1.74	1.61
200	SA	18	DT	O3'-P	11.11	1.74	1.61
208	T9	6	DT	O3'-P	11.11	1.74	1.61
210	TC	28	DA	O3'-P	11.11	1.74	1.61
226	V9	2	DA	O3'-P	11.11	1.74	1.61
236	X5	23	DT	O3'-P	11.11	1.74	1.61
7	A7	26	DA	O3'-P	11.11	1.74	1.61
11	AB	1300	DA	O3'-P	11.11	1.74	1.61
11	AB	1384	DT	O3'-P	11.11	1.74	1.61
11	AB	1991	DT	O3'-P	11.11	1.74	1.61
11	AB	3758	DT	O3'-P	11.11	1.74	1.61
11	AB	4273	DT	O3'-P	11.11	1.74	1.61
11	AB	5449	DT	O3'-P	11.11	1.74	1.61
11	AB	6183	DT	O3'-P	11.11	1.74	1.61
11	AB	6264	DT	O3'-P	11.11	1.74	1.61
95	I5	9	DA	O3'-P	11.11	1.74	1.61
122	KA	29	DT	O3'-P	11.11	1.74	1.61
184	QD	9	DA	O3'-P	11.11	1.74	1.61
215	U7	15	DT	O3'-P	11.11	1.74	1.61
11	AB	5	DA	O3'-P	11.11	1.74	1.61
11	AB	218	DA	O3'-P	11.11	1.74	1.61
11	AB	232	DA	O3'-P	11.11	1.74	1.61
11	AB	1005	DA	O3'-P	11.11	1.74	1.61
11	AB	1235	DT	O3'-P	11.11	1.74	1.61
11	AB	1398	DA	O3'-P	11.11	1.74	1.61
11	AB	1827	DA	O3'-P	11.11	1.74	1.61
11	AB	2358	DA	O3'-P	11.11	1.74	1.61
11	AB	2500	DA	O3'-P	11.11	1.74	1.61
11	AB	2514	DA	O3'-P	11.11	1.74	1.61
11	AB	5810	DT	O3'-P	11.11	1.74	1.61
11	AB	6416	DA	O3'-P	11.11	1.74	1.61
11	AB	6669	DA	O3'-P	11.11	1.74	1.61
11	AB	6747	DA	O3'-P	11.11	1.74	1.61
11	AB	7094	DT	O3'-P	11.11	1.74	1.61
30	C6	9	DA	O3'-P	11.11	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	DD	23	DA	O3'-P	11.11	1.74	1.61
76	G8	21	DA	O3'-P	11.11	1.74	1.61
78	GA	14	DA	O3'-P	11.11	1.74	1.61
83	H3	34	DA	O3'-P	11.11	1.74	1.61
87	H8	13	DA	O3'-P	11.11	1.74	1.61
94	I3	34	DA	O3'-P	11.11	1.74	1.61
99	I9	8	DT	O3'-P	11.11	1.74	1.61
124	KD	20	DA	O3'-P	11.11	1.74	1.61
145	MD	36	DA	O3'-P	11.11	1.74	1.61
198	S8	25	DT	O3'-P	11.11	1.74	1.61
171	P8	20	DA	O3'-P	11.11	1.74	1.61
183	QC	12	DA	O3'-P	11.11	1.74	1.61
190	R9	6	DT	O3'-P	11.11	1.74	1.61
190	R9	20	DT	O3'-P	11.11	1.74	1.61
207	T8	26	DA	O3'-P	11.11	1.74	1.61
222	V3	14	DA	O3'-P	11.11	1.74	1.61
223	V5	16	DA	O3'-P	11.11	1.74	1.61
238	X9	16	DA	O3'-P	11.11	1.74	1.61
11	AB	502	DA	O3'-P	11.11	1.74	1.61
11	AB	1326	DA	O3'-P	11.11	1.74	1.61
11	AB	1472	DT	O3'-P	11.11	1.74	1.61
11	AB	1839	DA	O3'-P	11.11	1.74	1.61
11	AB	2375	DA	O3'-P	11.11	1.74	1.61
11	AB	2491	DA	O3'-P	11.11	1.74	1.61
11	AB	2564	DA	O3'-P	11.11	1.74	1.61
11	AB	2785	DA	O3'-P	11.11	1.74	1.61
11	AB	2859	DA	O3'-P	11.11	1.74	1.61
11	AB	2860	DA	O3'-P	11.11	1.74	1.61
11	AB	3479	DT	O3'-P	11.11	1.74	1.61
222	V3	13	DA	O3'-P	11.11	1.74	1.61
233	W8	24	DA	O3'-P	11.11	1.74	1.61
11	AB	2993	DT	O3'-P	11.11	1.74	1.61
11	AB	3623	DT	O3'-P	11.11	1.74	1.61
11	AB	3707	DA	O3'-P	11.11	1.74	1.61
11	AB	3724	DA	O3'-P	11.11	1.74	1.61
181	Q9	12	DA	O3'-P	11.11	1.74	1.61
11	AB	4032	DA	O3'-P	11.11	1.74	1.61
11	AB	5297	DA	O3'-P	11.11	1.74	1.61
11	AB	5419	DA	O3'-P	11.11	1.74	1.61
11	AB	5675	DA	O3'-P	11.11	1.74	1.61
11	AB	5951	DA	O3'-P	11.11	1.74	1.61
11	AB	6257	DT	O3'-P	11.11	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6424	DT	O3'-P	11.11	1.74	1.61
11	AB	6452	DA	O3'-P	11.11	1.74	1.61
11	AB	6516	DA	O3'-P	11.11	1.74	1.61
11	AB	6778	DA	O3'-P	11.11	1.74	1.61
24	BC	36	DA	O3'-P	11.11	1.74	1.61
25	BD	11	DA	O3'-P	11.11	1.74	1.61
40	D5	20	DA	O3'-P	11.11	1.74	1.61
109	J8	30	DA	O3'-P	11.11	1.74	1.61
127	L3	12	DA	O3'-P	11.11	1.74	1.61
135	LD	15	DA	O3'-P	11.11	1.74	1.61
144	MC	22	DT	O3'-P	11.11	1.74	1.61
185	R2	2	DT	O3'-P	11.11	1.74	1.61
145	MD	2	DA	O3'-P	11.11	1.74	1.61
157	O3	21	DA	O3'-P	11.11	1.74	1.61
158	O5	43	DA	O3'-P	11.11	1.74	1.61
165	OD	23	DA	O3'-P	11.11	1.74	1.61
184	QD	28	DA	O3'-P	11.11	1.74	1.61
207	T8	25	DA	O3'-P	11.11	1.74	1.61
210	TC	25	DA	O3'-P	11.11	1.74	1.61
1	A1	35	DA	O3'-P	11.10	1.74	1.61
11	AB	3761	DT	O3'-P	11.10	1.74	1.61
11	AB	6316	DA	O3'-P	11.10	1.74	1.61
11	AB	6600	DT	O3'-P	11.10	1.74	1.61
11	AB	6946	DT	O3'-P	11.10	1.74	1.61
161	O8	2	DA	O3'-P	11.10	1.74	1.61
9	A9	13	DA	O3'-P	11.10	1.74	1.61
11	AB	231	DA	O3'-P	11.10	1.74	1.61
11	AB	740	DT	O3'-P	11.10	1.74	1.61
11	AB	808	DA	O3'-P	11.10	1.74	1.61
11	AB	1215	DA	O3'-P	11.10	1.74	1.61
11	AB	1569	DT	O3'-P	11.10	1.74	1.61
11	AB	1858	DA	O3'-P	11.10	1.74	1.61
11	AB	2115	DT	O3'-P	11.10	1.74	1.61
11	AB	2150	DA	O3'-P	11.10	1.74	1.61
11	AB	2380	DA	O3'-P	11.10	1.74	1.61
11	AB	2749	DA	O3'-P	11.10	1.74	1.61
11	AB	2988	DA	O3'-P	11.10	1.74	1.61
11	AB	3127	DT	O3'-P	11.10	1.74	1.61
11	AB	5968	DA	O3'-P	11.10	1.74	1.61
54	E8	10	DA	O3'-P	11.10	1.74	1.61
165	OD	9	DA	O3'-P	11.10	1.74	1.61
11	AB	2680	DT	O3'-P	11.10	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3030	DT	O3'-P	11.10	1.74	1.61
11	AB	3171	DA	O3'-P	11.10	1.74	1.61
11	AB	3192	DT	O3'-P	11.10	1.74	1.61
11	AB	3267	DA	O3'-P	11.10	1.74	1.61
11	AB	4262	DA	O3'-P	11.10	1.74	1.61
11	AB	3422	DA	O3'-P	11.10	1.74	1.61
11	AB	4403	DA	O3'-P	11.10	1.74	1.61
180	Q8	8	DA	O3'-P	11.10	1.74	1.61
11	AB	4137	DT	O3'-P	11.10	1.74	1.61
11	AB	4677	DT	O3'-P	11.10	1.74	1.61
11	AB	5088	DA	O3'-P	11.10	1.74	1.61
11	AB	5428	DA	O3'-P	11.10	1.74	1.61
11	AB	5544	DA	O3'-P	11.10	1.74	1.61
11	AB	5669	DA	O3'-P	11.10	1.74	1.61
11	AB	5912	DA	O3'-P	11.10	1.74	1.61
11	AB	6010	DT	O3'-P	11.10	1.74	1.61
11	AB	6097	DA	O3'-P	11.10	1.74	1.61
32	C8	11	DT	O3'-P	11.10	1.74	1.61
64	F7	1	DA	O3'-P	11.10	1.74	1.61
82	H2	49	DA	O3'-P	11.10	1.74	1.61
119	K7	19	DT	O3'-P	11.10	1.74	1.61
130	L7	58	DA	O3'-P	11.10	1.74	1.61
11	AB	6894	DA	O3'-P	11.10	1.74	1.61
11	AB	6895	DT	O3'-P	11.10	1.74	1.61
22	B9	18	DT	O3'-P	11.10	1.74	1.61
24	BC	37	DA	O3'-P	11.10	1.74	1.61
31	C7	9	DA	O3'-P	11.10	1.74	1.61
39	D3	22	DT	O3'-P	11.10	1.74	1.61
49	E2	10	DA	O3'-P	11.10	1.74	1.61
65	F8	7	DA	O3'-P	11.10	1.74	1.61
86	H7	17	DT	O3'-P	11.10	1.74	1.61
157	O3	15	DA	O3'-P	11.10	1.74	1.61
170	P7	21	DA	O3'-P	11.10	1.74	1.61
191	RA	17	DT	O3'-P	11.10	1.74	1.61
89	HA	17	DT	O3'-P	11.10	1.74	1.61
171	P8	28	DA	O3'-P	11.10	1.74	1.61
175	PD	3	DA	O3'-P	11.10	1.74	1.61
197	S7	18	DA	O3'-P	11.10	1.74	1.61
200	SA	17	DT	O3'-P	11.10	1.74	1.61
202	SD	21	DA	O3'-P	11.10	1.74	1.61
214	U5	39	DT	O3'-P	11.10	1.74	1.61
216	U8	7	DA	O3'-P	11.10	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
219	UC	33	DA	O3'-P	11.10	1.74	1.61
224	V7	17	DA	O3'-P	11.10	1.74	1.61
228	VC	16	DA	O3'-P	11.10	1.74	1.61
189	R8	10	DA	O3'-P	11.10	1.74	1.61
230	W3	25	DT	O3'-P	11.10	1.74	1.61
5	A5	36	DT	O3'-P	11.10	1.74	1.61
10	AA	24	DA	O3'-P	11.10	1.74	1.61
11	AB	184	DT	O3'-P	11.10	1.74	1.61
11	AB	1784	DA	O3'-P	11.10	1.74	1.61
11	AB	2671	DA	O3'-P	11.10	1.74	1.61
11	AB	4873	DT	O3'-P	11.10	1.74	1.61
11	AB	6928	DA	O3'-P	11.10	1.74	1.61
91	HD	12	DA	O3'-P	11.10	1.74	1.61
11	AB	192	DT	O3'-P	11.10	1.74	1.61
11	AB	596	DT	O3'-P	11.10	1.74	1.61
11	AB	1372	DT	O3'-P	11.10	1.74	1.61
11	AB	2070	DA	O3'-P	11.10	1.74	1.61
138	M5	24	DT	O3'-P	11.10	1.74	1.61
11	AB	2113	DA	O3'-P	11.10	1.74	1.61
11	AB	2623	DA	O3'-P	11.10	1.74	1.61
11	AB	3341	DT	O3'-P	11.10	1.74	1.61
11	AB	5494	DA	O3'-P	11.10	1.74	1.61
11	AB	5597	DT	O3'-P	11.10	1.74	1.61
11	AB	6732	DA	O3'-P	11.10	1.74	1.61
11	AB	7175	DA	O3'-P	11.10	1.74	1.61
13	AD	5	DT	O3'-P	11.10	1.74	1.61
26	C1	20	DA	O3'-P	11.10	1.74	1.61
43	D8	2	DA	O3'-P	11.10	1.74	1.61
49	E2	26	DT	O3'-P	11.10	1.74	1.61
55	E9	5	DT	O3'-P	11.10	1.74	1.61
72	G3	7	DA	O3'-P	11.10	1.74	1.61
119	K7	37	DT	O3'-P	11.10	1.74	1.61
122	KA	15	DA	O3'-P	11.10	1.74	1.61
125	L1	17	DT	O3'-P	11.10	1.74	1.61
146	N2	16	DA	O3'-P	11.10	1.74	1.61
160	O7	34	DA	O3'-P	11.10	1.74	1.61
168	P5	12	DT	O3'-P	11.10	1.74	1.61
173	PA	1	DA	O3'-P	11.10	1.74	1.61
174	PC	17	DA	O3'-P	11.10	1.74	1.61
183	QC	15	DT	O3'-P	11.10	1.74	1.61
215	U7	2	DA	O3'-P	11.10	1.74	1.61
221	V2	10	DA	O3'-P	11.10	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
226	V9	25	DA	O3'-P	11.10	1.74	1.61
11	AB	164	DA	O3'-P	11.10	1.74	1.61
11	AB	246	DA	O3'-P	11.10	1.74	1.61
11	AB	1252	DA	O3'-P	11.10	1.74	1.61
1	A1	55	DA	O3'-P	11.10	1.74	1.61
11	AB	1097	DT	O3'-P	11.10	1.74	1.61
11	AB	1159	DT	O3'-P	11.10	1.74	1.61
11	AB	1309	DT	O3'-P	11.10	1.74	1.61
11	AB	1508	DT	O3'-P	11.10	1.74	1.61
11	AB	2161	DA	O3'-P	11.10	1.74	1.61
11	AB	2174	DT	O3'-P	11.10	1.74	1.61
11	AB	2314	DA	O3'-P	11.10	1.74	1.61
11	AB	2558	DA	O3'-P	11.10	1.74	1.61
11	AB	2690	DT	O3'-P	11.10	1.74	1.61
11	AB	2800	DT	O3'-P	11.10	1.74	1.61
11	AB	2791	DA	O3'-P	11.10	1.74	1.61
11	AB	3353	DT	O3'-P	11.10	1.74	1.61
11	AB	3772	DA	O3'-P	11.10	1.74	1.61
11	AB	4125	DT	O3'-P	11.10	1.74	1.61
11	AB	4264	DA	O3'-P	11.10	1.74	1.61
11	AB	4727	DT	O3'-P	11.10	1.74	1.61
11	AB	5437	DT	O3'-P	11.10	1.74	1.61
11	AB	5958	DA	O3'-P	11.10	1.74	1.61
11	AB	6419	DT	O3'-P	11.10	1.74	1.61
11	AB	6864	DT	O3'-P	11.10	1.74	1.61
19	B6	20	DA	O3'-P	11.10	1.74	1.61
39	D3	23	DT	O3'-P	11.10	1.74	1.61
55	E9	30	DA	O3'-P	11.10	1.74	1.61
58	ED	33	DA	O3'-P	11.10	1.74	1.61
64	F7	5	DA	O3'-P	11.10	1.74	1.61
81	H1	8	DT	O3'-P	11.10	1.74	1.61
85	H6	1	DA	O3'-P	11.10	1.74	1.61
101	IC	7	DA	O3'-P	11.10	1.74	1.61
102	ID	10	DT	O3'-P	11.10	1.74	1.61
114	K1	11	DA	O3'-P	11.10	1.74	1.61
125	L1	3	DA	O3'-P	11.10	1.74	1.61
126	L2	32	DT	O3'-P	11.10	1.74	1.61
144	MC	14	DT	O3'-P	11.10	1.74	1.61
151	N8	3	DA	O3'-P	11.10	1.74	1.61
188	R7	26	DT	O3'-P	11.10	1.74	1.61
190	R9	10	DA	O3'-P	11.10	1.74	1.61
220	UD	2	DT	O3'-P	11.10	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
221	V2	24	DA	O3'-P	11.10	1.74	1.61
222	V3	2	DT	O3'-P	11.10	1.74	1.61
226	V9	7	DA	O3'-P	11.10	1.74	1.61
228	VC	25	DA	O3'-P	11.10	1.74	1.61
1	A1	48	DA	O3'-P	11.09	1.74	1.61
4	A4	18	DA	O3'-P	11.09	1.74	1.61
11	AB	1516	DA	O3'-P	11.09	1.74	1.61
11	AB	1546	DT	O3'-P	11.09	1.74	1.61
11	AB	1975	DT	O3'-P	11.09	1.74	1.61
11	AB	2093	DT	O3'-P	11.09	1.74	1.61
11	AB	2181	DT	O3'-P	11.09	1.74	1.61
11	AB	2872	DA	O3'-P	11.09	1.74	1.61
11	AB	3700	DA	O3'-P	11.09	1.74	1.61
11	AB	4266	DA	O3'-P	11.09	1.74	1.61
11	AB	6561	DT	O3'-P	11.09	1.74	1.61
5	A5	10	DA	O3'-P	11.09	1.74	1.61
7	A7	17	DA	O3'-P	11.09	1.74	1.61
11	AB	158	DA	O3'-P	11.09	1.74	1.61
11	AB	838	DA	O3'-P	11.09	1.74	1.61
11	AB	1806	DA	O3'-P	11.09	1.74	1.61
11	AB	2824	DT	O3'-P	11.09	1.74	1.61
11	AB	2987	DA	O3'-P	11.09	1.74	1.61
11	AB	3170	DA	O3'-P	11.09	1.74	1.61
11	AB	3328	DA	O3'-P	11.09	1.74	1.61
11	AB	4351	DA	O3'-P	11.09	1.74	1.61
11	AB	4449	DA	O3'-P	11.09	1.74	1.61
11	AB	5222	DT	O3'-P	11.09	1.74	1.61
11	AB	5707	DA	O3'-P	11.09	1.74	1.61
14	B1	29	DA	O3'-P	11.09	1.74	1.61
94	I3	35	DA	O3'-P	11.09	1.74	1.61
11	AB	4450	DA	O3'-P	11.09	1.74	1.61
11	AB	5224	DT	O3'-P	11.09	1.74	1.61
11	AB	5877	DA	O3'-P	11.09	1.74	1.61
11	AB	6013	DA	O3'-P	11.09	1.74	1.61
11	AB	6301	DT	O3'-P	11.09	1.74	1.61
11	AB	6574	DT	O3'-P	11.09	1.74	1.61
13	AD	6	DA	O3'-P	11.09	1.74	1.61
18	B5	30	DA	O3'-P	11.09	1.74	1.61
65	F8	16	DA	O3'-P	11.09	1.74	1.61
69	FD	24	DA	O3'-P	11.09	1.74	1.61
88	H9	25	DA	O3'-P	11.09	1.74	1.61
95	I5	16	DA	O3'-P	11.09	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
75	G7	1	DA	O3'-P	11.09	1.74	1.61
130	L7	8	DA	O3'-P	11.09	1.74	1.61
130	L7	43	DA	O3'-P	11.09	1.74	1.61
137	M3	9	DA	O3'-P	11.09	1.74	1.61
146	N2	19	DA	O3'-P	11.09	1.74	1.61
160	O7	27	DA	O3'-P	11.09	1.74	1.61
162	O9	10	DA	O3'-P	11.09	1.74	1.61
163	OA	8	DA	O3'-P	11.09	1.74	1.61
175	PD	15	DT	O3'-P	11.09	1.74	1.61
237	X7	8	DA	O3'-P	11.09	1.74	1.61
185	R2	17	DA	O3'-P	11.09	1.74	1.61
196	S5	2	DA	O3'-P	11.09	1.74	1.61
212	U2	22	DT	O3'-P	11.09	1.74	1.61
214	U5	24	DT	O3'-P	11.09	1.74	1.61
228	VC	6	DA	O3'-P	11.09	1.74	1.61
11	AB	253	DT	O3'-P	11.09	1.74	1.61
11	AB	646	DT	O3'-P	11.09	1.74	1.61
11	AB	1381	DT	O3'-P	11.09	1.74	1.61
11	AB	1402	DT	O3'-P	11.09	1.74	1.61
11	AB	2670	DT	O3'-P	11.09	1.74	1.61
11	AB	3672	DT	O3'-P	11.09	1.74	1.61
11	AB	5235	DA	O3'-P	11.09	1.74	1.61
43	D8	41	DA	O3'-P	11.09	1.74	1.61
162	O9	9	DT	O3'-P	11.09	1.74	1.61
178	Q5	34	DA	O3'-P	11.09	1.74	1.61
1	A1	38	DT	O3'-P	11.09	1.74	1.61
11	AB	1563	DT	O3'-P	11.09	1.74	1.61
11	AB	1752	DA	O3'-P	11.09	1.74	1.61
11	AB	2002	DA	O3'-P	11.09	1.74	1.61
11	AB	2111	DT	O3'-P	11.09	1.74	1.61
11	AB	2430	DT	O3'-P	11.09	1.74	1.61
11	AB	2513	DA	O3'-P	11.09	1.74	1.61
11	AB	2967	DT	O3'-P	11.09	1.74	1.61
115	K2	24	DA	O3'-P	11.09	1.74	1.61
11	AB	2517	DT	O3'-P	11.09	1.74	1.61
11	AB	2816	DT	O3'-P	11.09	1.74	1.61
11	AB	3004	DT	O3'-P	11.09	1.74	1.61
11	AB	3503	DT	O3'-P	11.09	1.74	1.61
11	AB	4269	DT	O3'-P	11.09	1.74	1.61
11	AB	5164	DT	O3'-P	11.09	1.74	1.61
107	J6	31	DT	O3'-P	11.09	1.74	1.61
11	AB	4327	DT	O3'-P	11.09	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4426	DT	O3'-P	11.09	1.74	1.61
11	AB	5163	DT	O3'-P	11.09	1.74	1.61
11	AB	5690	DT	O3'-P	11.09	1.74	1.61
11	AB	6079	DT	O3'-P	11.09	1.74	1.61
11	AB	6164	DA	O3'-P	11.09	1.74	1.61
11	AB	6200	DA	O3'-P	11.09	1.74	1.61
11	AB	6480	DT	O3'-P	11.09	1.74	1.61
12	AC	13	DT	O3'-P	11.09	1.74	1.61
105	J3	17	DT	O3'-P	11.09	1.74	1.61
26	C1	6	DA	O3'-P	11.09	1.74	1.61
26	C1	22	DA	O3'-P	11.09	1.74	1.61
40	D5	12	DT	O3'-P	11.09	1.74	1.61
64	F7	2	DA	O3'-P	11.09	1.74	1.61
83	H3	40	DA	O3'-P	11.09	1.74	1.61
114	K1	40	DT	O3'-P	11.09	1.74	1.61
130	L7	16	DA	O3'-P	11.09	1.74	1.61
155	ND	17	DT	O3'-P	11.09	1.74	1.61
166	P2	15	DT	O3'-P	11.09	1.74	1.61
177	Q3	11	DT	O3'-P	11.09	1.74	1.61
181	Q9	30	DT	O3'-P	11.09	1.74	1.61
192	RC	31	DT	O3'-P	11.09	1.74	1.61
211	TD	26	DT	O3'-P	11.09	1.74	1.61
214	U5	19	DT	O3'-P	11.09	1.74	1.61
226	V9	9	DT	O3'-P	11.09	1.74	1.61
236	X5	21	DT	O3'-P	11.09	1.74	1.61
11	AB	381	DA	O3'-P	11.09	1.74	1.61
11	AB	741	DT	O3'-P	11.09	1.74	1.61
11	AB	1307	DT	O3'-P	11.09	1.74	1.61
11	AB	1528	DT	O3'-P	11.09	1.74	1.61
11	AB	1550	DT	O3'-P	11.09	1.74	1.61
11	AB	2020	DT	O3'-P	11.09	1.74	1.61
11	AB	2348	DT	O3'-P	11.09	1.74	1.61
11	AB	2426	DT	O3'-P	11.09	1.74	1.61
11	AB	2907	DA	O3'-P	11.09	1.74	1.61
11	AB	3221	DA	O3'-P	11.09	1.74	1.61
11	AB	3982	DA	O3'-P	11.09	1.74	1.61
11	AB	4244	DT	O3'-P	11.09	1.74	1.61
11	AB	4720	DT	O3'-P	11.09	1.74	1.61
11	AB	4940	DT	O3'-P	11.09	1.74	1.61
11	AB	6737	DT	O3'-P	11.09	1.74	1.61
11	AB	7210	DA	O3'-P	11.09	1.74	1.61
37	D1	3	DA	O3'-P	11.09	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	DA	26	DA	O3'-P	11.09	1.74	1.61
54	E8	22	DT	O3'-P	11.09	1.74	1.61
98	I8	29	DA	O3'-P	11.09	1.74	1.61
109	J8	50	DA	O3'-P	11.09	1.74	1.61
135	LD	21	DA	O3'-P	11.09	1.74	1.61
141	M8	6	DA	O3'-P	11.09	1.74	1.61
144	MC	21	DT	O3'-P	11.09	1.74	1.61
1	A1	17	DA	O3'-P	11.09	1.74	1.61
3	A3	21	DA	O3'-P	11.09	1.74	1.61
11	AB	188	DT	O3'-P	11.09	1.74	1.61
11	AB	624	DT	O3'-P	11.09	1.74	1.61
11	AB	645	DT	O3'-P	11.09	1.74	1.61
11	AB	990	DA	O3'-P	11.09	1.74	1.61
11	AB	1223	DT	O3'-P	11.09	1.74	1.61
11	AB	1577	DA	O3'-P	11.09	1.74	1.61
11	AB	2541	DA	O3'-P	11.09	1.74	1.61
11	AB	2633	DA	O3'-P	11.09	1.74	1.61
11	AB	2831	DT	O3'-P	11.09	1.74	1.61
11	AB	3157	DT	O3'-P	11.09	1.74	1.61
11	AB	3431	DA	O3'-P	11.09	1.74	1.61
11	AB	3570	DA	O3'-P	11.09	1.74	1.61
11	AB	3905	DT	O3'-P	11.09	1.74	1.61
11	AB	3948	DT	O3'-P	11.09	1.74	1.61
11	AB	3973	DA	O3'-P	11.09	1.74	1.61
11	AB	4768	DT	O3'-P	11.09	1.74	1.61
11	AB	4856	DT	O3'-P	11.09	1.74	1.61
11	AB	5562	DA	O3'-P	11.09	1.74	1.61
11	AB	5846	DA	O3'-P	11.09	1.74	1.61
11	AB	6037	DA	O3'-P	11.09	1.74	1.61
11	AB	6566	DT	O3'-P	11.09	1.74	1.61
11	AB	6954	DA	O3'-P	11.09	1.74	1.61
13	AD	41	DT	O3'-P	11.09	1.74	1.61
15	B2	17	DA	O3'-P	11.09	1.74	1.61
135	LD	9	DT	O3'-P	11.09	1.74	1.61
19	B6	3	DA	O3'-P	11.09	1.74	1.61
58	ED	14	DA	O3'-P	11.09	1.74	1.61
59	F1	5	DA	O3'-P	11.09	1.74	1.61
60	F2	31	DT	O3'-P	11.09	1.74	1.61
68	FC	2	DA	O3'-P	11.09	1.74	1.61
72	G3	21	DT	O3'-P	11.09	1.74	1.61
73	G5	9	DA	O3'-P	11.09	1.74	1.61
93	I2	34	DA	O3'-P	11.09	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
98	I8	28	DA	O3'-P	11.09	1.74	1.61
108	J7	23	DA	O3'-P	11.09	1.74	1.61
114	K1	19	DA	O3'-P	11.09	1.74	1.61
116	K3	12	DA	O3'-P	11.09	1.74	1.61
117	K5	15	DT	O3'-P	11.09	1.74	1.61
123	KC	14	DT	O3'-P	11.09	1.74	1.61
144	MC	17	DT	O3'-P	11.09	1.74	1.61
152	N9	8	DA	O3'-P	11.09	1.74	1.61
163	OA	15	DT	O3'-P	11.09	1.74	1.61
165	OD	33	DA	O3'-P	11.09	1.74	1.61
170	P7	18	DA	O3'-P	11.09	1.74	1.61
181	Q9	26	DA	O3'-P	11.09	1.74	1.61
214	U5	12	DA	O3'-P	11.09	1.74	1.61
219	UC	32	DA	O3'-P	11.09	1.74	1.61
227	VA	9	DT	O3'-P	11.09	1.74	1.61
228	VC	1	DA	O3'-P	11.09	1.74	1.61
231	W5	25	DA	O3'-P	11.09	1.74	1.61
237	X7	5	DA	O3'-P	11.09	1.74	1.61
5	A5	27	DA	O3'-P	11.08	1.74	1.61
11	AB	1383	DT	O3'-P	11.08	1.74	1.61
11	AB	2256	DA	O3'-P	11.08	1.74	1.61
11	AB	3028	DA	O3'-P	11.08	1.74	1.61
11	AB	5787	DT	O3'-P	11.08	1.74	1.61
54	E8	32	DT	O3'-P	11.08	1.74	1.61
77	G9	14	DT	O3'-P	11.08	1.74	1.61
11	AB	431	DT	O3'-P	11.08	1.74	1.61
11	AB	1262	DA	O3'-P	11.08	1.74	1.61
11	AB	2330	DT	O3'-P	11.08	1.74	1.61
11	AB	2747	DA	O3'-P	11.08	1.74	1.61
11	AB	2772	DA	O3'-P	11.08	1.74	1.61
11	AB	2869	DA	O3'-P	11.08	1.74	1.61
11	AB	2888	DA	O3'-P	11.08	1.74	1.61
11	AB	3868	DA	O3'-P	11.08	1.74	1.61
11	AB	4932	DA	O3'-P	11.08	1.74	1.61
11	AB	5007	DA	O3'-P	11.08	1.74	1.61
11	AB	5353	DA	O3'-P	11.08	1.74	1.61
11	AB	5457	DT	O3'-P	11.08	1.74	1.61
11	AB	5808	DT	O3'-P	11.08	1.74	1.61
11	AB	6128	DT	O3'-P	11.08	1.74	1.61
11	AB	6890	DT	O3'-P	11.08	1.74	1.61
22	B9	2	DT	O3'-P	11.08	1.74	1.61
11	AB	5791	DT	O3'-P	11.08	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5903	DA	O3'-P	11.08	1.74	1.61
11	AB	6209	DA	O3'-P	11.08	1.74	1.61
11	AB	6418	DT	O3'-P	11.08	1.74	1.61
22	B9	30	DA	O3'-P	11.08	1.74	1.61
31	C7	7	DT	O3'-P	11.08	1.74	1.61
136	M2	4	DA	O3'-P	11.08	1.74	1.61
149	N6	40	DA	O3'-P	11.08	1.74	1.61
166	P2	25	DA	O3'-P	11.08	1.74	1.61
216	U8	22	DT	O3'-P	11.08	1.74	1.61
11	AB	6718	DT	O3'-P	11.08	1.74	1.61
11	AB	6782	DA	O3'-P	11.08	1.74	1.61
11	AB	6829	DA	O3'-P	11.08	1.74	1.61
11	AB	6879	DT	O3'-P	11.08	1.74	1.61
13	AD	39	DT	O3'-P	11.08	1.74	1.61
16	B3	9	DT	O3'-P	11.08	1.74	1.61
26	C1	16	DT	O3'-P	11.08	1.74	1.61
31	C7	25	DA	O3'-P	11.08	1.74	1.61
57	EC	5	DA	O3'-P	11.08	1.74	1.61
60	F2	16	DT	O3'-P	11.08	1.74	1.61
83	H3	39	DA	O3'-P	11.08	1.74	1.61
105	J3	7	DT	O3'-P	11.08	1.74	1.61
108	J7	48	DA	O3'-P	11.08	1.74	1.61
114	K1	34	DA	O3'-P	11.08	1.74	1.61
126	L2	33	DA	O3'-P	11.08	1.74	1.61
194	S2	7	DA	O3'-P	11.08	1.74	1.61
118	K6	19	DA	O3'-P	11.08	1.74	1.61
142	M9	15	DA	O3'-P	11.08	1.74	1.61
163	OA	6	DA	O3'-P	11.08	1.74	1.61
188	R7	11	DT	O3'-P	11.08	1.74	1.61
189	R8	32	DA	O3'-P	11.08	1.74	1.61
190	R9	39	DA	O3'-P	11.08	1.74	1.61
211	TD	32	DA	O3'-P	11.08	1.74	1.61
215	U7	1	DA	O3'-P	11.08	1.74	1.61
225	V8	14	DA	O3'-P	11.08	1.74	1.61
11	AB	177	DT	O3'-P	11.08	1.74	1.61
11	AB	484	DA	O3'-P	11.08	1.74	1.61
11	AB	1758	DA	O3'-P	11.08	1.74	1.61
11	AB	1930	DT	O3'-P	11.08	1.74	1.61
11	AB	1946	DT	O3'-P	11.08	1.74	1.61
11	AB	2737	DA	O3'-P	11.08	1.74	1.61
29	C5	5	DA	O3'-P	11.08	1.74	1.61
69	FD	13	DT	O3'-P	11.08	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2127	DA	O3'-P	11.08	1.74	1.61
11	AB	2194	DT	O3'-P	11.08	1.74	1.61
11	AB	3926	DA	O3'-P	11.08	1.74	1.61
11	AB	3928	DT	O3'-P	11.08	1.74	1.61
146	N2	10	DA	O3'-P	11.08	1.74	1.61
189	R8	24	DA	O3'-P	11.08	1.74	1.61
238	X9	39	DA	O3'-P	11.08	1.74	1.61
11	AB	2438	DT	O3'-P	11.08	1.74	1.61
11	AB	2640	DA	O3'-P	11.08	1.74	1.61
11	AB	2820	DT	O3'-P	11.08	1.74	1.61
11	AB	2913	DA	O3'-P	11.08	1.74	1.61
11	AB	3092	DA	O3'-P	11.08	1.74	1.61
11	AB	4446	DA	O3'-P	11.08	1.74	1.61
11	AB	3138	DT	O3'-P	11.08	1.74	1.61
11	AB	3275	DA	O3'-P	11.08	1.74	1.61
11	AB	5970	DA	O3'-P	11.08	1.74	1.61
11	AB	3587	DA	O3'-P	11.08	1.74	1.61
11	AB	4456	DA	O3'-P	11.08	1.74	1.61
11	AB	5229	DT	O3'-P	11.08	1.74	1.61
11	AB	5780	DT	O3'-P	11.08	1.74	1.61
11	AB	5796	DT	O3'-P	11.08	1.74	1.61
11	AB	5982	DT	O3'-P	11.08	1.74	1.61
11	AB	5998	DT	O3'-P	11.08	1.74	1.61
11	AB	6312	DT	O3'-P	11.08	1.74	1.61
11	AB	6423	DT	O3'-P	11.08	1.74	1.61
12	AC	8	DA	O3'-P	11.08	1.74	1.61
40	D5	11	DA	O3'-P	11.08	1.74	1.61
47	DD	26	DA	O3'-P	11.08	1.74	1.61
93	I2	3	DA	O3'-P	11.08	1.74	1.61
62	F5	8	DT	O3'-P	11.08	1.74	1.61
80	GD	8	DT	O3'-P	11.08	1.74	1.61
83	H3	13	DA	O3'-P	11.08	1.74	1.61
89	HA	6	DT	O3'-P	11.08	1.74	1.61
98	I8	19	DA	O3'-P	11.08	1.74	1.61
128	L5	7	DT	O3'-P	11.08	1.74	1.61
95	I5	24	DA	O3'-P	11.08	1.74	1.61
107	J6	10	DA	O3'-P	11.08	1.74	1.61
163	OA	7	DA	O3'-P	11.08	1.74	1.61
179	Q7	19	DA	O3'-P	11.08	1.74	1.61
230	W3	24	DT	O3'-P	11.08	1.74	1.61
231	W5	10	DT	O3'-P	11.08	1.74	1.61
237	X7	3	DT	O3'-P	11.08	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
238	X9	23	DA	O3'-P	11.08	1.74	1.61
5	A5	1	DT	O3'-P	11.08	1.74	1.61
11	AB	3	DA	O3'-P	11.08	1.74	1.61
11	AB	319	DA	O3'-P	11.08	1.74	1.61
11	AB	1523	DT	O3'-P	11.08	1.74	1.61
11	AB	5443	DT	O3'-P	11.08	1.74	1.61
11	AB	286	DA	O3'-P	11.08	1.74	1.61
11	AB	982	DA	O3'-P	11.08	1.74	1.61
11	AB	2282	DT	O3'-P	11.08	1.74	1.61
11	AB	2629	DA	O3'-P	11.08	1.74	1.61
11	AB	2662	DA	O3'-P	11.08	1.74	1.61
11	AB	2803	DA	O3'-P	11.08	1.74	1.61
11	AB	3008	DT	O3'-P	11.08	1.74	1.61
11	AB	3147	DT	O3'-P	11.08	1.74	1.61
11	AB	3285	DT	O3'-P	11.08	1.74	1.61
11	AB	3908	DT	O3'-P	11.08	1.74	1.61
11	AB	5812	DT	O3'-P	11.08	1.74	1.61
11	AB	1816	DT	O3'-P	11.08	1.74	1.61
11	AB	2306	DA	O3'-P	11.08	1.74	1.61
11	AB	3483	DT	O3'-P	11.08	1.74	1.61
11	AB	3933	DA	O3'-P	11.08	1.74	1.61
11	AB	6174	DT	O3'-P	11.08	1.74	1.61
11	AB	6495	DT	O3'-P	11.08	1.74	1.61
53	E7	2	DT	O3'-P	11.08	1.74	1.61
77	G9	15	DT	O3'-P	11.08	1.74	1.61
236	X5	10	DA	O3'-P	11.08	1.74	1.61
11	AB	4229	DT	O3'-P	11.08	1.74	1.61
11	AB	4579	DA	O3'-P	11.08	1.74	1.61
11	AB	4686	DT	O3'-P	11.08	1.74	1.61
11	AB	4917	DA	O3'-P	11.08	1.74	1.61
11	AB	5313	DA	O3'-P	11.08	1.74	1.61
11	AB	5842	DA	O3'-P	11.08	1.74	1.61
11	AB	5196	DA	O3'-P	11.08	1.74	1.61
11	AB	6085	DA	O3'-P	11.08	1.74	1.61
11	AB	6784	DA	O3'-P	11.08	1.74	1.61
23	BA	28	DT	O3'-P	11.08	1.74	1.61
12	AC	15	DT	O3'-P	11.08	1.74	1.61
25	BD	20	DA	O3'-P	11.08	1.74	1.61
49	E2	15	DT	O3'-P	11.08	1.74	1.61
51	E5	21	DT	O3'-P	11.08	1.74	1.61
59	F1	19	DA	O3'-P	11.08	1.74	1.61
86	H7	16	DT	O3'-P	11.08	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
95	I5	39	DA	O3'-P	11.08	1.74	1.61
109	J8	5	DT	O3'-P	11.08	1.74	1.61
130	L7	48	DA	O3'-P	11.08	1.74	1.61
141	M8	24	DA	O3'-P	11.08	1.74	1.61
160	O7	37	DA	O3'-P	11.08	1.74	1.61
167	P3	6	DT	O3'-P	11.08	1.74	1.61
190	R9	19	DT	O3'-P	11.08	1.74	1.61
113	JD	8	DA	O3'-P	11.08	1.74	1.61
115	K2	12	DT	O3'-P	11.08	1.74	1.61
175	PD	2	DA	O3'-P	11.08	1.74	1.61
178	Q5	31	DT	O3'-P	11.08	1.74	1.61
192	RC	14	DA	O3'-P	11.08	1.74	1.61
214	U5	36	DA	O3'-P	11.08	1.74	1.61
11	AB	446	DT	O3'-P	11.07	1.74	1.61
11	AB	3382	DA	O3'-P	11.07	1.74	1.61
140	M7	18	DA	O3'-P	11.07	1.74	1.61
7	A7	33	DA	O3'-P	11.07	1.74	1.61
11	AB	603	DT	O3'-P	11.07	1.74	1.61
11	AB	722	DA	O3'-P	11.07	1.74	1.61
11	AB	1140	DA	O3'-P	11.07	1.74	1.61
11	AB	1325	DA	O3'-P	11.07	1.74	1.61
11	AB	1456	DA	O3'-P	11.07	1.74	1.61
11	AB	5359	DA	O3'-P	11.07	1.74	1.61
149	N6	28	DA	O3'-P	11.07	1.74	1.61
170	P7	14	DA	O3'-P	11.07	1.74	1.61
11	AB	1557	DT	O3'-P	11.07	1.74	1.61
11	AB	1607	DA	O3'-P	11.07	1.74	1.61
11	AB	1718	DT	O3'-P	11.07	1.74	1.61
11	AB	1733	DA	O3'-P	11.07	1.74	1.61
11	AB	1859	DA	O3'-P	11.07	1.74	1.61
11	AB	3196	DA	O3'-P	11.07	1.74	1.61
11	AB	4236	DT	O3'-P	11.07	1.74	1.61
11	AB	4417	DT	O3'-P	11.07	1.74	1.61
103	J1	20	DA	O3'-P	11.07	1.74	1.61
107	J6	4	DA	O3'-P	11.07	1.74	1.61
214	U5	40	DT	O3'-P	11.07	1.74	1.61
11	AB	4763	DA	O3'-P	11.07	1.74	1.61
11	AB	5225	DA	O3'-P	11.07	1.74	1.61
11	AB	5422	DA	O3'-P	11.07	1.74	1.61
11	AB	6067	DA	O3'-P	11.07	1.74	1.61
11	AB	6163	DA	O3'-P	11.07	1.74	1.61
11	AB	6263	DA	O3'-P	11.07	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6793	DT	O3'-P	11.07	1.74	1.61
11	AB	7055	DT	O3'-P	11.07	1.74	1.61
11	AB	7233	DA	O3'-P	11.07	1.74	1.61
12	AC	9	DA	O3'-P	11.07	1.74	1.61
13	AD	24	DA	O3'-P	11.07	1.74	1.61
16	B3	21	DA	O3'-P	11.07	1.74	1.61
58	ED	24	DA	O3'-P	11.07	1.74	1.61
108	J7	44	DT	O3'-P	11.07	1.74	1.61
110	J9	8	DT	O3'-P	11.07	1.74	1.61
62	F5	12	DA	O3'-P	11.07	1.74	1.61
84	H5	27	DT	O3'-P	11.07	1.74	1.61
112	JC	22	DT	O3'-P	11.07	1.74	1.61
88	H9	24	DA	O3'-P	11.07	1.74	1.61
109	J8	37	DA	O3'-P	11.07	1.74	1.61
118	K6	6	DT	O3'-P	11.07	1.74	1.61
148	N5	8	DT	O3'-P	11.07	1.74	1.61
180	Q8	18	DT	O3'-P	11.07	1.74	1.61
235	WD	18	DA	O3'-P	11.07	1.74	1.61
237	X7	9	DA	O3'-P	11.07	1.74	1.61
7	A7	32	DA	O3'-P	11.07	1.74	1.61
11	AB	194	DT	O3'-P	11.07	1.74	1.61
11	AB	248	DT	O3'-P	11.07	1.74	1.61
11	AB	3136	DA	O3'-P	11.07	1.74	1.61
11	AB	3759	DT	O3'-P	11.07	1.74	1.61
11	AB	5209	DT	O3'-P	11.07	1.74	1.61
221	V2	2	DT	O3'-P	11.07	1.74	1.61
1	A1	56	DT	O3'-P	11.07	1.74	1.61
11	AB	595	DT	O3'-P	11.07	1.74	1.61
11	AB	1554	DT	O3'-P	11.07	1.74	1.61
11	AB	1717	DT	O3'-P	11.07	1.74	1.61
11	AB	2199	DT	O3'-P	11.07	1.74	1.61
11	AB	2498	DT	O3'-P	11.07	1.74	1.61
11	AB	2812	DA	O3'-P	11.07	1.74	1.61
11	AB	3337	DA	O3'-P	11.07	1.74	1.61
11	AB	3797	DA	O3'-P	11.07	1.74	1.61
11	AB	4207	DA	O3'-P	11.07	1.74	1.61
11	AB	4349	DT	O3'-P	11.07	1.74	1.61
11	AB	4676	DT	O3'-P	11.07	1.74	1.61
11	AB	5608	DT	O3'-P	11.07	1.74	1.61
11	AB	6260	DT	O3'-P	11.07	1.74	1.61
11	AB	6593	DT	O3'-P	11.07	1.74	1.61
43	D8	15	DA	O3'-P	11.07	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
60	F2	30	DT	O3'-P	11.07	1.74	1.61
62	F5	23	DA	O3'-P	11.07	1.74	1.61
148	N5	32	DA	O3'-P	11.07	1.74	1.61
11	AB	688	DT	O3'-P	11.07	1.74	1.61
11	AB	1022	DA	O3'-P	11.07	1.74	1.61
11	AB	1553	DT	O3'-P	11.07	1.74	1.61
11	AB	2342	DT	O3'-P	11.07	1.74	1.61
11	AB	2420	DT	O3'-P	11.07	1.74	1.61
11	AB	2519	DT	O3'-P	11.07	1.74	1.61
11	AB	2682	DT	O3'-P	11.07	1.74	1.61
11	AB	2707	DT	O3'-P	11.07	1.74	1.61
11	AB	2844	DT	O3'-P	11.07	1.74	1.61
11	AB	3848	DT	O3'-P	11.07	1.74	1.61
11	AB	4263	DA	O3'-P	11.07	1.74	1.61
11	AB	5306	DT	O3'-P	11.07	1.74	1.61
173	PA	31	DA	O3'-P	11.07	1.74	1.61
204	T3	10	DA	O3'-P	11.07	1.74	1.61
11	AB	3015	DT	O3'-P	11.07	1.74	1.61
11	AB	4209	DA	O3'-P	11.07	1.74	1.61
11	AB	5517	DA	O3'-P	11.07	1.74	1.61
11	AB	5650	DA	O3'-P	11.07	1.74	1.61
11	AB	6095	DT	O3'-P	11.07	1.74	1.61
100	IA	19	DA	O3'-P	11.07	1.74	1.61
112	JC	21	DT	O3'-P	11.07	1.74	1.61
117	K5	37	DT	O3'-P	11.07	1.74	1.61
147	N3	14	DT	O3'-P	11.07	1.74	1.61
11	AB	6172	DT	O3'-P	11.07	1.74	1.61
11	AB	6373	DA	O3'-P	11.07	1.74	1.61
11	AB	6417	DT	O3'-P	11.07	1.74	1.61
11	AB	6642	DA	O3'-P	11.07	1.74	1.61
11	AB	6719	DT	O3'-P	11.07	1.74	1.61
11	AB	7060	DT	O3'-P	11.07	1.74	1.61
11	AB	7184	DT	O3'-P	11.07	1.74	1.61
13	AD	40	DT	O3'-P	11.07	1.74	1.61
16	B3	8	DT	O3'-P	11.07	1.74	1.61
17	B4	9	DA	O3'-P	11.07	1.74	1.61
18	B5	35	DT	O3'-P	11.07	1.74	1.61
66	F9	17	DT	O3'-P	11.07	1.74	1.61
94	I3	23	DA	O3'-P	11.07	1.74	1.61
103	J1	11	DT	O3'-P	11.07	1.74	1.61
204	T3	32	DT	O3'-P	11.07	1.74	1.61
104	J2	34	DA	O3'-P	11.07	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
106	J5	9	DT	O3'-P	11.07	1.74	1.61
135	LD	8	DT	O3'-P	11.07	1.74	1.61
149	N6	22	DT	O3'-P	11.07	1.74	1.61
154	NC	19	DT	O3'-P	11.07	1.74	1.61
159	O6	1	DT	O3'-P	11.07	1.74	1.61
193	RD	10	DT	O3'-P	11.07	1.74	1.61
11	AB	209	DA	O3'-P	11.07	1.74	1.61
11	AB	1392	DT	O3'-P	11.07	1.74	1.61
11	AB	6060	DA	O3'-P	11.07	1.74	1.61
11	AB	7061	DT	O3'-P	11.07	1.74	1.61
108	J7	18	DT	O3'-P	11.07	1.74	1.61
11	AB	947	DT	O3'-P	11.07	1.74	1.61
11	AB	1201	DA	O3'-P	11.07	1.74	1.61
11	AB	1679	DT	O3'-P	11.07	1.74	1.61
11	AB	2112	DA	O3'-P	11.07	1.74	1.61
11	AB	2511	DA	O3'-P	11.07	1.74	1.61
11	AB	2751	DA	O3'-P	11.07	1.74	1.61
11	AB	2620	DA	O3'-P	11.07	1.74	1.61
11	AB	2815	DT	O3'-P	11.07	1.74	1.61
11	AB	2865	DA	O3'-P	11.07	1.74	1.61
11	AB	2942	DA	O3'-P	11.07	1.74	1.61
11	AB	3001	DT	O3'-P	11.07	1.74	1.61
11	AB	3160	DT	O3'-P	11.07	1.74	1.61
11	AB	3177	DT	O3'-P	11.07	1.74	1.61
11	AB	3322	DA	O3'-P	11.07	1.74	1.61
11	AB	3347	DA	O3'-P	11.07	1.74	1.61
11	AB	6790	DT	O3'-P	11.07	1.74	1.61
11	AB	4787	DA	O3'-P	11.07	1.74	1.61
11	AB	5778	DT	O3'-P	11.07	1.74	1.61
11	AB	6066	DA	O3'-P	11.07	1.74	1.61
11	AB	6132	DT	O3'-P	11.07	1.74	1.61
11	AB	6161	DT	O3'-P	11.07	1.74	1.61
11	AB	6587	DT	O3'-P	11.07	1.74	1.61
148	N5	9	DT	O3'-P	11.07	1.74	1.61
11	AB	6273	DA	O3'-P	11.07	1.74	1.61
11	AB	6558	DT	O3'-P	11.07	1.74	1.61
11	AB	6562	DA	O3'-P	11.07	1.74	1.61
11	AB	6956	DT	O3'-P	11.07	1.74	1.61
11	AB	7043	DT	O3'-P	11.07	1.74	1.61
33	C9	22	DA	O3'-P	11.07	1.74	1.61
35	CC	5	DT	O3'-P	11.07	1.74	1.61
51	E5	30	DA	O3'-P	11.07	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
115	K2	13	DT	O3'-P	11.07	1.74	1.61
87	H8	9	DA	O3'-P	11.07	1.74	1.61
92	I1	20	DT	O3'-P	11.07	1.74	1.61
98	I8	15	DA	O3'-P	11.07	1.74	1.61
119	K7	42	DT	O3'-P	11.07	1.74	1.61
121	K9	5	DA	O3'-P	11.07	1.74	1.61
122	KA	48	DA	O3'-P	11.07	1.74	1.61
131	L8	13	DT	O3'-P	11.07	1.74	1.61
138	M5	18	DT	O3'-P	11.07	1.74	1.61
149	N6	5	DT	O3'-P	11.07	1.74	1.61
178	Q5	26	DA	O3'-P	11.07	1.74	1.61
186	R3	16	DT	O3'-P	11.07	1.74	1.61
191	RA	18	DT	O3'-P	11.07	1.74	1.61
5	A5	26	DT	O3'-P	11.06	1.74	1.61
11	AB	1371	DT	O3'-P	11.06	1.74	1.61
11	AB	3006	DT	O3'-P	11.06	1.74	1.61
11	AB	3111	DA	O3'-P	11.06	1.74	1.61
11	AB	3240	DA	O3'-P	11.06	1.74	1.61
105	J3	28	DT	O3'-P	11.06	1.74	1.61
152	N9	35	DA	O3'-P	11.06	1.74	1.61
9	A9	11	DA	O3'-P	11.06	1.74	1.61
11	AB	1030	DA	O3'-P	11.06	1.74	1.61
11	AB	5309	DA	O3'-P	11.06	1.74	1.61
11	AB	5769	DA	O3'-P	11.06	1.74	1.61
11	AB	7009	DA	O3'-P	11.06	1.74	1.61
50	E3	10	DA	O3'-P	11.06	1.74	1.61
84	H5	18	DA	O3'-P	11.06	1.74	1.61
100	IA	13	DA	O3'-P	11.06	1.74	1.61
178	Q5	32	DT	O3'-P	11.06	1.74	1.61
107	J6	37	DA	O3'-P	11.06	1.74	1.61
137	M3	22	DT	O3'-P	11.06	1.74	1.61
147	N3	31	DA	O3'-P	11.06	1.74	1.61
176	Q2	19	DA	O3'-P	11.06	1.74	1.61
178	Q5	33	DT	O3'-P	11.06	1.74	1.61
230	W3	22	DT	O3'-P	11.06	1.74	1.61
193	RD	15	DA	O3'-P	11.06	1.74	1.61
7	A7	28	DT	O3'-P	11.06	1.74	1.61
11	AB	35	DA	O3'-P	11.06	1.74	1.61
11	AB	1021	DA	O3'-P	11.06	1.74	1.61
11	AB	1157	DT	O3'-P	11.06	1.74	1.61
11	AB	1512	DT	O3'-P	11.06	1.74	1.61
11	AB	2431	DT	O3'-P	11.06	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3510	DT	O3'-P	11.06	1.74	1.61
11	AB	6259	DT	O3'-P	11.06	1.74	1.61
11	AB	2269	DA	O3'-P	11.06	1.74	1.61
11	AB	2361	DA	O3'-P	11.06	1.74	1.61
11	AB	2794	DA	O3'-P	11.06	1.74	1.61
11	AB	3539	DA	O3'-P	11.06	1.74	1.61
11	AB	5573	DA	O3'-P	11.06	1.74	1.61
58	ED	26	DT	O3'-P	11.06	1.74	1.61
144	MC	20	DT	O3'-P	11.06	1.74	1.61
11	AB	3098	DA	O3'-P	11.06	1.74	1.61
11	AB	3312	DT	O3'-P	11.06	1.74	1.61
11	AB	3526	DT	O3'-P	11.06	1.74	1.61
11	AB	3612	DT	O3'-P	11.06	1.74	1.61
11	AB	3856	DA	O3'-P	11.06	1.74	1.61
11	AB	5210	DT	O3'-P	11.06	1.74	1.61
11	AB	4874	DT	O3'-P	11.06	1.74	1.61
11	AB	5267	DA	O3'-P	11.06	1.74	1.61
11	AB	5327	DA	O3'-P	11.06	1.74	1.61
11	AB	5383	DT	O3'-P	11.06	1.74	1.61
11	AB	5386	DT	O3'-P	11.06	1.74	1.61
11	AB	5739	DA	O3'-P	11.06	1.74	1.61
11	AB	6246	DT	O3'-P	11.06	1.74	1.61
11	AB	6426	DT	O3'-P	11.06	1.74	1.61
11	AB	6871	DT	O3'-P	11.06	1.74	1.61
11	AB	6889	DT	O3'-P	11.06	1.74	1.61
47	DD	35	DA	O3'-P	11.06	1.74	1.61
49	E2	11	DT	O3'-P	11.06	1.74	1.61
54	E8	31	DT	O3'-P	11.06	1.74	1.61
55	E9	32	DT	O3'-P	11.06	1.74	1.61
60	F2	32	DT	O3'-P	11.06	1.74	1.61
113	JD	19	DA	O3'-P	11.06	1.74	1.61
130	L7	19	DA	O3'-P	11.06	1.74	1.61
133	LA	8	DT	O3'-P	11.06	1.74	1.61
143	MA	5	DT	O3'-P	11.06	1.74	1.61
173	PA	19	DT	O3'-P	11.06	1.74	1.61
222	V3	19	DT	O3'-P	11.06	1.74	1.61
220	UD	11	DT	O3'-P	11.06	1.74	1.61
11	AB	1304	DT	O3'-P	11.06	1.74	1.61
11	AB	2835	DT	O3'-P	11.06	1.74	1.61
11	AB	226	DT	O3'-P	11.06	1.74	1.61
11	AB	667	DT	O3'-P	11.06	1.74	1.61
11	AB	3440	DT	O3'-P	11.06	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3851	DT	O3'-P	11.06	1.74	1.61
11	AB	1297	DA	O3'-P	11.06	1.74	1.61
11	AB	2023	DT	O3'-P	11.06	1.74	1.61
11	AB	3062	DT	O3'-P	11.06	1.74	1.61
11	AB	3183	DT	O3'-P	11.06	1.74	1.61
11	AB	3287	DT	O3'-P	11.06	1.74	1.61
11	AB	3308	DT	O3'-P	11.06	1.74	1.61
11	AB	3855	DT	O3'-P	11.06	1.74	1.61
11	AB	4761	DA	O3'-P	11.06	1.74	1.61
11	AB	5244	DT	O3'-P	11.06	1.74	1.61
11	AB	5567	DA	O3'-P	11.06	1.74	1.61
11	AB	5609	DT	O3'-P	11.06	1.74	1.61
11	AB	6455	DA	O3'-P	11.06	1.74	1.61
62	F5	39	DA	O3'-P	11.06	1.74	1.61
11	AB	5290	DT	O3'-P	11.06	1.74	1.61
11	AB	5821	DA	O3'-P	11.06	1.74	1.61
11	AB	5975	DA	O3'-P	11.06	1.74	1.61
11	AB	6214	DA	O3'-P	11.06	1.74	1.61
43	D8	44	DT	O3'-P	11.06	1.74	1.61
198	S8	9	DT	O3'-P	11.06	1.74	1.61
11	AB	6531	DA	O3'-P	11.06	1.74	1.61
14	B1	36	DA	O3'-P	11.06	1.74	1.61
49	E2	25	DT	O3'-P	11.06	1.74	1.61
83	H3	3	DT	O3'-P	11.06	1.74	1.61
98	I8	27	DT	O3'-P	11.06	1.74	1.61
119	K7	41	DT	O3'-P	11.06	1.74	1.61
125	L1	34	DA	O3'-P	11.06	1.74	1.61
200	SA	20	DA	O3'-P	11.06	1.74	1.61
226	V9	5	DA	O3'-P	11.06	1.74	1.61
231	W5	9	DT	O3'-P	11.06	1.74	1.61
231	W5	11	DT	O3'-P	11.06	1.74	1.61
237	X7	4	DT	O3'-P	11.06	1.74	1.61
11	AB	1303	DT	O3'-P	11.06	1.74	1.61
11	AB	2631	DA	O3'-P	11.06	1.74	1.61
11	AB	2681	DT	O3'-P	11.06	1.74	1.61
11	AB	3595	DA	O3'-P	11.06	1.74	1.61
11	AB	5338	DA	O3'-P	11.06	1.74	1.61
11	AB	5569	DA	O3'-P	11.06	1.74	1.61
11	AB	6415	DT	O3'-P	11.06	1.74	1.61
11	AB	6853	DA	O3'-P	11.06	1.74	1.61
11	AB	7183	DT	O3'-P	11.06	1.74	1.61
22	B9	29	DT	O3'-P	11.06	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	C8	12	DT	O3'-P	11.05	1.74	1.61
67	FA	24	DT	O3'-P	11.05	1.74	1.61
161	O8	21	DA	O3'-P	11.05	1.74	1.61
8	A8	11	DA	O3'-P	11.05	1.74	1.61
11	AB	141	DA	O3'-P	11.05	1.74	1.61
11	AB	161	DA	O3'-P	11.05	1.74	1.61
11	AB	178	DT	O3'-P	11.05	1.74	1.61
11	AB	225	DT	O3'-P	11.05	1.74	1.61
11	AB	716	DA	O3'-P	11.05	1.74	1.61
11	AB	732	DT	O3'-P	11.05	1.74	1.61
11	AB	975	DT	O3'-P	11.05	1.74	1.61
11	AB	976	DT	O3'-P	11.05	1.74	1.61
11	AB	1013	DT	O3'-P	11.05	1.74	1.61
11	AB	1322	DA	O3'-P	11.05	1.74	1.61
11	AB	1681	DT	O3'-P	11.05	1.74	1.61
11	AB	1725	DT	O3'-P	11.05	1.74	1.61
11	AB	1765	DA	O3'-P	11.05	1.74	1.61
11	AB	2552	DA	O3'-P	11.05	1.74	1.61
11	AB	4150	DT	O3'-P	11.06	1.74	1.61
181	Q9	28	DT	O3'-P	11.05	1.74	1.61
11	AB	1777	DA	O3'-P	11.05	1.74	1.61
11	AB	2130	DA	O3'-P	11.05	1.74	1.61
11	AB	2363	DT	O3'-P	11.05	1.74	1.61
11	AB	2427	DT	O3'-P	11.05	1.74	1.61
11	AB	2439	DT	O3'-P	11.05	1.74	1.61
11	AB	2441	DT	O3'-P	11.05	1.74	1.61
11	AB	2493	DT	O3'-P	11.05	1.74	1.61
11	AB	2797	DT	O3'-P	11.05	1.74	1.61
11	AB	4722	DT	O3'-P	11.05	1.74	1.61
11	AB	5465	DT	O3'-P	11.05	1.74	1.61
51	E5	14	DT	O3'-P	11.05	1.74	1.61
82	H2	16	DT	O3'-P	11.05	1.74	1.61
133	LA	20	DT	O3'-P	11.05	1.74	1.61
142	M9	12	DT	O3'-P	11.05	1.74	1.61
161	O8	41	DA	O3'-P	11.05	1.74	1.61
11	AB	2921	DA	O3'-P	11.05	1.74	1.61
11	AB	3305	DT	O3'-P	11.05	1.74	1.61
11	AB	3330	DT	O3'-P	11.05	1.74	1.61
11	AB	3332	DT	O3'-P	11.05	1.74	1.61
11	AB	3767	DT	O3'-P	11.05	1.74	1.61
11	AB	3907	DT	O3'-P	11.05	1.74	1.61
11	AB	3995	DT	O3'-P	11.05	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5999	DT	O3'-P	11.05	1.74	1.61
55	E9	9	DT	O3'-P	11.05	1.74	1.61
78	GA	4	DT	O3'-P	11.06	1.74	1.61
78	GA	10	DT	O3'-P	11.05	1.74	1.61
183	QC	26	DT	O3'-P	11.05	1.74	1.61
186	R3	21	DT	O3'-P	11.06	1.74	1.61
193	RD	16	DA	O3'-P	11.05	1.74	1.61
11	AB	4750	DA	O3'-P	11.05	1.74	1.61
11	AB	4923	DT	O3'-P	11.05	1.74	1.61
11	AB	5317	DT	O3'-P	11.05	1.74	1.61
11	AB	5713	DT	O3'-P	11.05	1.74	1.61
11	AB	5833	DA	O3'-P	11.05	1.74	1.61
11	AB	6343	DT	O3'-P	11.05	1.74	1.61
11	AB	6427	DT	O3'-P	11.05	1.74	1.61
11	AB	6488	DT	O3'-P	11.05	1.74	1.61
11	AB	6582	DT	O3'-P	11.05	1.74	1.61
42	D7	1	DT	O3'-P	11.05	1.74	1.61
52	E6	9	DA	O3'-P	11.05	1.74	1.61
67	FA	10	DT	O3'-P	11.05	1.74	1.61
92	I1	9	DA	O3'-P	11.05	1.74	1.61
121	K9	16	DT	O3'-P	11.05	1.74	1.61
161	O8	12	DA	O3'-P	11.06	1.74	1.61
11	AB	6583	DT	O3'-P	11.05	1.74	1.61
11	AB	7079	DT	O3'-P	11.05	1.74	1.61
11	AB	7222	DT	O3'-P	11.05	1.74	1.61
21	B8	21	DA	O3'-P	11.05	1.74	1.61
31	C7	8	DT	O3'-P	11.05	1.74	1.61
43	D8	13	DA	O3'-P	11.05	1.74	1.61
50	E3	6	DA	O3'-P	11.05	1.74	1.61
88	H9	1	DA	O3'-P	11.05	1.74	1.61
98	I8	40	DT	O3'-P	11.05	1.74	1.61
107	J6	38	DA	O3'-P	11.05	1.74	1.61
123	KC	6	DT	O3'-P	11.05	1.74	1.61
130	L7	52	DA	O3'-P	11.05	1.74	1.61
138	M5	38	DT	O3'-P	11.05	1.74	1.61
141	M8	13	DA	O3'-P	11.05	1.74	1.61
149	N6	9	DT	O3'-P	11.05	1.74	1.61
165	OD	52	DA	O3'-P	11.05	1.74	1.61
158	O5	30	DT	O3'-P	11.05	1.74	1.61
171	P8	8	DT	O3'-P	11.05	1.74	1.61
172	P9	23	DT	O3'-P	11.05	1.74	1.61
175	PD	14	DT	O3'-P	11.05	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
182	QA	25	DT	O3'-P	11.05	1.74	1.61
198	S8	40	DT	O3'-P	11.05	1.74	1.61
200	SA	23	DT	O3'-P	11.05	1.74	1.61
201	SC	2	DA	O3'-P	11.05	1.74	1.61
206	T7	28	DA	O3'-P	11.05	1.74	1.61
208	T9	10	DT	O3'-P	11.05	1.74	1.61
221	V2	13	DA	O3'-P	11.05	1.74	1.61
221	V2	16	DT	O3'-P	11.05	1.74	1.61
226	V9	33	DT	O3'-P	11.05	1.74	1.61
231	W5	30	DT	O3'-P	11.05	1.74	1.61
7	A7	24	DA	O3'-P	11.05	1.74	1.61
11	AB	689	DT	O3'-P	11.05	1.74	1.61
11	AB	4872	DT	O3'-P	11.05	1.74	1.61
5	A5	4	DT	O3'-P	11.05	1.74	1.61
11	AB	368	DT	O3'-P	11.05	1.74	1.61
11	AB	510	DA	O3'-P	11.05	1.74	1.61
11	AB	668	DT	O3'-P	11.05	1.74	1.61
11	AB	1220	DT	O3'-P	11.05	1.74	1.61
138	M5	20	DT	O3'-P	11.05	1.74	1.61
11	AB	560	DT	O3'-P	11.05	1.74	1.61
11	AB	1678	DT	O3'-P	11.05	1.74	1.61
11	AB	1687	DT	O3'-P	11.05	1.74	1.61
11	AB	1973	DT	O3'-P	11.05	1.74	1.61
11	AB	2246	DA	O3'-P	11.05	1.74	1.61
11	AB	2377	DA	O3'-P	11.05	1.74	1.61
11	AB	2406	DT	O3'-P	11.05	1.74	1.61
11	AB	2429	DT	O3'-P	11.05	1.74	1.61
11	AB	2444	DA	O3'-P	11.05	1.74	1.61
11	AB	2759	DA	O3'-P	11.05	1.74	1.61
11	AB	2903	DA	O3'-P	11.05	1.74	1.61
11	AB	3156	DT	O3'-P	11.05	1.74	1.61
11	AB	6500	DT	O3'-P	11.05	1.74	1.61
29	C5	17	DT	O3'-P	11.05	1.74	1.61
105	J3	24	DA	O3'-P	11.05	1.74	1.61
11	AB	3182	DT	O3'-P	11.05	1.74	1.61
11	AB	3302	DT	O3'-P	11.05	1.74	1.61
11	AB	3319	DC	O3'-P	11.05	1.74	1.61
11	AB	3815	DA	O3'-P	11.05	1.74	1.61
11	AB	6326	DA	O3'-P	11.05	1.74	1.61
11	AB	6472	DA	O3'-P	11.05	1.74	1.61
11	AB	6585	DT	O3'-P	11.05	1.74	1.61
11	AB	6639	DT	O3'-P	11.05	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6884	DT	O3'-P	11.05	1.74	1.61
34	CA	5	DA	O3'-P	11.05	1.74	1.61
107	J6	25	DA	O3'-P	11.05	1.74	1.61
108	J7	17	DT	O3'-P	11.05	1.74	1.61
117	K5	1	DT	O3'-P	11.05	1.74	1.61
125	L1	43	DT	O3'-P	11.05	1.74	1.61
145	MD	47	DT	O3'-P	11.05	1.74	1.61
165	OD	47	DT	O3'-P	11.05	1.74	1.61
109	J8	38	DA	O3'-P	11.05	1.74	1.61
130	L7	11	DT	O3'-P	11.05	1.74	1.61
157	O3	20	DT	O3'-P	11.05	1.74	1.61
159	O6	3	DT	O3'-P	11.05	1.74	1.61
160	O7	50	DT	O3'-P	11.05	1.74	1.61
177	Q3	24	DA	O3'-P	11.05	1.74	1.61
190	R9	21	DT	O3'-P	11.05	1.74	1.61
225	V8	8	DT	O3'-P	11.05	1.74	1.61
190	R9	15	DA	O3'-P	11.05	1.74	1.61
195	S3	18	DA	O3'-P	11.05	1.74	1.61
198	S8	11	DT	O3'-P	11.05	1.74	1.61
219	UC	28	DA	O3'-P	11.05	1.74	1.61
11	AB	224	DT	O3'-P	11.05	1.74	1.61
11	AB	696	DT	O3'-P	11.05	1.74	1.61
11	AB	1237	DT	O3'-P	11.05	1.74	1.61
11	AB	1576	DT	O3'-P	11.05	1.74	1.61
11	AB	1726	DT	O3'-P	11.05	1.74	1.61
11	AB	3017	DT	O3'-P	11.05	1.74	1.61
11	AB	3384	DA	O3'-P	11.05	1.74	1.61
11	AB	5368	DT	O3'-P	11.05	1.74	1.61
11	AB	5438	DT	O3'-P	11.05	1.74	1.61
11	AB	6162	DT	O3'-P	11.05	1.74	1.61
11	AB	6232	DT	O3'-P	11.05	1.74	1.61
11	AB	6496	DT	O3'-P	11.05	1.74	1.61
11	AB	6649	DT	O3'-P	11.05	1.74	1.61
131	L8	14	DT	O3'-P	11.05	1.74	1.61
142	M9	3	DT	O3'-P	11.05	1.74	1.61
146	N2	18	DT	O3'-P	11.05	1.74	1.61
154	NC	36	DT	O3'-P	11.05	1.74	1.61
11	AB	1888	DA	O3'-P	11.05	1.74	1.61
11	AB	6178	DA	O3'-P	11.05	1.74	1.61
39	D3	16	DA	O3'-P	11.05	1.74	1.61
44	D9	11	DT	O3'-P	11.05	1.74	1.61
53	E7	3	DT	O3'-P	11.05	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	ED	41	DT	O3'-P	11.05	1.74	1.61
84	H5	10	DA	O3'-P	11.05	1.74	1.61
104	J2	33	DA	O3'-P	11.05	1.74	1.61
157	O3	4	DT	O3'-P	11.05	1.74	1.61
165	OD	25	DT	O3'-P	11.05	1.74	1.61
180	Q8	27	DT	O3'-P	11.05	1.74	1.61
198	S8	12	DA	O3'-P	11.05	1.74	1.61
142	M9	14	DT	O3'-P	11.05	1.74	1.61
154	NC	14	DA	O3'-P	11.05	1.74	1.61
167	P3	26	DA	O3'-P	11.05	1.74	1.61
200	SA	9	DA	O3'-P	11.05	1.74	1.61
215	U7	4	DT	O3'-P	11.05	1.74	1.61
237	X7	1	DT	O3'-P	11.05	1.74	1.61
238	X9	30	DA	O3'-P	11.05	1.74	1.61
11	AB	172	DT	O3'-P	11.04	1.74	1.61
11	AB	1974	DA	O3'-P	11.05	1.74	1.61
11	AB	2087	DT	O3'-P	11.04	1.74	1.61
11	AB	2098	DT	O3'-P	11.04	1.74	1.61
11	AB	2154	DA	O3'-P	11.04	1.74	1.61
11	AB	2676	DT	O3'-P	11.04	1.74	1.61
111	JA	1	DT	O3'-P	11.05	1.74	1.61
11	AB	2819	DT	O3'-P	11.04	1.74	1.61
11	AB	3164	DT	O3'-P	11.04	1.74	1.61
11	AB	3199	DA	O3'-P	11.04	1.74	1.61
11	AB	3505	DT	O3'-P	11.04	1.74	1.61
11	AB	3760	DT	O3'-P	11.04	1.74	1.61
11	AB	3994	DT	O3'-P	11.04	1.74	1.61
11	AB	3996	DT	O3'-P	11.04	1.74	1.61
11	AB	4353	DT	O3'-P	11.04	1.74	1.61
132	L9	2	DA	O3'-P	11.05	1.74	1.61
11	AB	5744	DA	O3'-P	11.04	1.74	1.61
11	AB	5819	DT	O3'-P	11.04	1.74	1.61
11	AB	6863	DT	O3'-P	11.04	1.74	1.61
78	GA	9	DT	O3'-P	11.04	1.74	1.61
106	J5	10	DT	O3'-P	11.04	1.74	1.61
119	K7	6	DT	O3'-P	11.04	1.74	1.61
145	MD	10	DT	O3'-P	11.04	1.74	1.61
158	O5	39	DA	O3'-P	11.04	1.74	1.61
215	U7	16	DT	O3'-P	11.04	1.74	1.61
11	AB	1409	DT	O3'-P	11.04	1.74	1.61
11	AB	1537	DT	O3'-P	11.04	1.74	1.61
11	AB	1665	DA	O3'-P	11.04	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1933	DT	O3'-P	11.04	1.74	1.61
11	AB	1995	DT	O3'-P	11.04	1.74	1.61
11	AB	3336	DT	O3'-P	11.04	1.74	1.61
11	AB	3402	DA	O3'-P	11.04	1.74	1.61
11	AB	3831	DT	O3'-P	11.04	1.74	1.61
11	AB	4235	DT	O3'-P	11.04	1.74	1.61
11	AB	5519	DT	O3'-P	11.04	1.74	1.61
11	AB	6341	DT	O3'-P	11.04	1.74	1.61
68	FC	15	DT	O3'-P	11.04	1.74	1.61
79	GC	22	DT	O3'-P	11.04	1.74	1.61
11	AB	2958	DT	O3'-P	11.04	1.74	1.61
11	AB	2979	DT	O3'-P	11.04	1.74	1.61
11	AB	3704	DT	O3'-P	11.04	1.74	1.61
11	AB	3939	DT	O3'-P	11.04	1.74	1.61
11	AB	5340	DA	O3'-P	11.04	1.74	1.61
11	AB	5361	DA	O3'-P	11.04	1.74	1.61
11	AB	5639	DT	O3'-P	11.04	1.74	1.61
11	AB	5643	DA	O3'-P	11.04	1.74	1.61
11	AB	5754	DA	O3'-P	11.04	1.74	1.61
11	AB	5915	DT	O3'-P	11.04	1.74	1.61
11	AB	6487	DT	O3'-P	11.04	1.74	1.61
11	AB	6575	DT	O3'-P	11.04	1.74	1.61
11	AB	6623	DA	O3'-P	11.04	1.74	1.61
11	AB	7062	DT	O3'-P	11.04	1.74	1.61
11	AB	6769	DA	O3'-P	11.04	1.74	1.61
11	AB	7046	DT	O3'-P	11.04	1.74	1.61
11	AB	7067	DT	O3'-P	11.04	1.74	1.61
20	B7	15	DT	O3'-P	11.04	1.74	1.61
36	CD	17	DT	O3'-P	11.04	1.74	1.61
62	F5	41	DA	O3'-P	11.04	1.74	1.61
67	FA	8	DT	O3'-P	11.04	1.74	1.61
82	H2	9	DA	O3'-P	11.04	1.74	1.61
147	N3	15	DT	O3'-P	11.04	1.74	1.61
177	Q3	12	DT	O3'-P	11.04	1.74	1.61
117	K5	34	DT	O3'-P	11.04	1.74	1.61
121	K9	18	DT	O3'-P	11.04	1.74	1.61
135	LD	18	DA	O3'-P	11.04	1.74	1.61
147	N3	27	DT	O3'-P	11.04	1.74	1.61
180	Q8	14	DA	O3'-P	11.04	1.74	1.61
183	QC	25	DT	O3'-P	11.04	1.74	1.61
191	RA	19	DT	O3'-P	11.04	1.74	1.61
212	U2	21	DT	O3'-P	11.04	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1	DA	O3'-P	11.04	1.74	1.61
54	E8	8	DA	O3'-P	11.04	1.74	1.61
5	A5	20	DT	O3'-P	11.04	1.74	1.61
11	AB	73	DA	O3'-P	11.04	1.74	1.61
11	AB	176	DT	O3'-P	11.04	1.74	1.61
11	AB	363	DT	O3'-P	11.04	1.74	1.61
11	AB	392	DT	O3'-P	11.04	1.74	1.61
11	AB	602	DT	O3'-P	11.04	1.74	1.61
11	AB	617	DT	O3'-P	11.04	1.74	1.61
11	AB	786	DA	O3'-P	11.04	1.74	1.61
11	AB	1329	DT	O3'-P	11.04	1.74	1.61
11	AB	1496	DT	O3'-P	11.04	1.74	1.61
11	AB	1618	DA	O3'-P	11.04	1.74	1.61
11	AB	2861	DT	O3'-P	11.04	1.74	1.61
11	AB	5779	DT	O3'-P	11.04	1.74	1.61
11	AB	6267	DA	O3'-P	11.04	1.74	1.61
33	C9	17	DA	O3'-P	11.04	1.74	1.61
130	L7	50	DT	O3'-P	11.04	1.74	1.61
145	MD	20	DA	O3'-P	11.04	1.74	1.61
8	A8	26	DT	O3'-P	11.04	1.74	1.61
11	AB	652	DT	O3'-P	11.04	1.74	1.61
11	AB	1066	DT	O3'-P	11.04	1.74	1.61
11	AB	1708	DT	O3'-P	11.04	1.74	1.61
11	AB	2198	DT	O3'-P	11.04	1.74	1.61
11	AB	3032	DT	O3'-P	11.04	1.74	1.61
11	AB	5486	DA	O3'-P	11.04	1.74	1.61
11	AB	7041	DT	O3'-P	11.04	1.74	1.61
11	AB	1504	DT	O3'-P	11.04	1.74	1.61
11	AB	1567	DT	O3'-P	11.04	1.74	1.61
11	AB	1890	DA	O3'-P	11.04	1.74	1.61
11	AB	2693	DT	O3'-P	11.04	1.74	1.61
11	AB	3194	DT	O3'-P	11.04	1.74	1.61
11	AB	4078	DA	O3'-P	11.04	1.74	1.61
11	AB	4798	DT	O3'-P	11.04	1.74	1.61
11	AB	5021	DT	O3'-P	11.04	1.74	1.61
11	AB	6002	DT	O3'-P	11.04	1.74	1.61
11	AB	6315	DA	O3'-P	11.04	1.74	1.61
11	AB	6945	DT	O3'-P	11.04	1.74	1.61
11	AB	7023	DA	O3'-P	11.04	1.74	1.61
11	AB	7035	DT	O3'-P	11.04	1.74	1.61
11	AB	7056	DT	O3'-P	11.04	1.74	1.61
18	B5	20	DT	O3'-P	11.04	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B8	18	DA	O3'-P	11.04	1.74	1.61
57	EC	17	DT	O3'-P	11.04	1.74	1.61
123	KC	13	DT	O3'-P	11.04	1.74	1.61
126	L2	31	DT	O3'-P	11.04	1.74	1.61
157	O3	23	DT	O3'-P	11.04	1.74	1.61
211	TD	25	DT	O3'-P	11.04	1.74	1.61
228	VC	37	DT	O3'-P	11.04	1.74	1.61
238	X9	45	DA	O3'-P	11.04	1.74	1.61
11	AB	2518	DT	O3'-P	11.04	1.74	1.61
11	AB	3329	DT	O3'-P	11.04	1.74	1.61
11	AB	3522	DT	O3'-P	11.04	1.74	1.61
11	AB	3849	DT	O3'-P	11.04	1.74	1.61
11	AB	4291	DT	O3'-P	11.04	1.74	1.61
11	AB	4415	DT	O3'-P	11.04	1.74	1.61
11	AB	4687	DT	O3'-P	11.04	1.74	1.61
11	AB	5319	DT	O3'-P	11.04	1.74	1.61
11	AB	5395	DT	O3'-P	11.04	1.74	1.61
11	AB	5919	DT	O3'-P	11.04	1.74	1.61
11	AB	5937	DT	O3'-P	11.04	1.74	1.61
11	AB	6351	DT	O3'-P	11.04	1.74	1.61
11	AB	6523	DA	O3'-P	11.04	1.74	1.61
11	AB	6740	DT	O3'-P	11.04	1.74	1.61
19	B6	10	DT	O3'-P	11.04	1.74	1.61
29	C5	1	DT	O3'-P	11.04	1.74	1.61
42	D7	10	DT	O3'-P	11.04	1.74	1.61
68	FC	12	DT	O3'-P	11.04	1.74	1.61
69	FD	10	DT	O3'-P	11.04	1.74	1.61
84	H5	17	DA	O3'-P	11.04	1.74	1.61
86	H7	8	DT	O3'-P	11.04	1.74	1.61
93	I2	11	DT	O3'-P	11.04	1.74	1.61
121	K9	14	DT	O3'-P	11.04	1.74	1.61
211	TD	4	DA	O3'-P	11.04	1.74	1.61
124	KD	10	DT	O3'-P	11.04	1.74	1.61
125	L1	38	DT	O3'-P	11.04	1.74	1.61
135	LD	10	DT	O3'-P	11.04	1.74	1.61
158	O5	16	DT	O3'-P	11.04	1.74	1.61
171	P8	15	DA	O3'-P	11.04	1.74	1.61
216	U8	6	DT	O3'-P	11.04	1.74	1.61
222	V3	5	DA	O3'-P	11.04	1.74	1.61
231	W5	19	DT	O3'-P	11.04	1.74	1.61
237	X7	10	DT	O3'-P	11.04	1.74	1.61
11	AB	654	DT	O3'-P	11.04	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	784	DT	O3'-P	11.04	1.74	1.61
11	AB	1955	DT	O3'-P	11.04	1.74	1.61
11	AB	2349	DT	O3'-P	11.04	1.74	1.61
11	AB	2597	DT	O3'-P	11.04	1.74	1.61
11	AB	3480	DT	O3'-P	11.04	1.74	1.61
11	AB	3618	DT	O3'-P	11.04	1.74	1.61
11	AB	3930	DT	O3'-P	11.04	1.74	1.61
11	AB	4245	DT	O3'-P	11.04	1.74	1.61
11	AB	4393	DA	O3'-P	11.04	1.74	1.61
12	AC	10	DT	O3'-P	11.04	1.74	1.61
120	K8	12	DT	O3'-P	11.04	1.74	1.61
11	AB	1826	DT	O3'-P	11.03	1.74	1.61
11	AB	1939	DT	O3'-P	11.03	1.74	1.61
11	AB	2321	DA	O3'-P	11.03	1.74	1.61
11	AB	2421	DT	O3'-P	11.03	1.74	1.61
11	AB	2704	DT	O3'-P	11.03	1.74	1.61
11	AB	3852	DT	O3'-P	11.04	1.74	1.61
11	AB	4224	DT	O3'-P	11.04	1.74	1.61
11	AB	4350	DT	O3'-P	11.04	1.74	1.61
11	AB	4875	DT	O3'-P	11.04	1.74	1.61
11	AB	6738	DT	O3'-P	11.04	1.74	1.61
11	AB	6654	DT	O3'-P	11.03	1.74	1.61
11	AB	6970	DA	O3'-P	11.04	1.74	1.61
11	AB	7036	DT	O3'-P	11.04	1.74	1.61
11	AB	7107	DA	O3'-P	11.04	1.74	1.61
89	HA	7	DT	O3'-P	11.04	1.74	1.61
128	L5	8	DT	O3'-P	11.04	1.74	1.61
24	BC	32	DT	O3'-P	11.03	1.74	1.61
33	C9	25	DA	O3'-P	11.04	1.74	1.61
47	DD	22	DT	O3'-P	11.03	1.74	1.61
66	F9	21	DT	O3'-P	11.04	1.74	1.61
91	HD	5	DA	O3'-P	11.04	1.74	1.61
98	I8	42	DT	O3'-P	11.04	1.74	1.61
112	JC	15	DT	O3'-P	11.04	1.74	1.61
121	K9	11	DA	O3'-P	11.04	1.74	1.61
142	M9	10	DT	O3'-P	11.04	1.74	1.61
177	Q3	26	DA	O3'-P	11.04	1.74	1.61
179	Q7	9	DA	O3'-P	11.03	1.74	1.61
192	RC	16	DA	O3'-P	11.03	1.74	1.61
219	UC	21	DT	O3'-P	11.04	1.74	1.61
220	UD	3	DT	O3'-P	11.04	1.74	1.61
233	W8	5	DA	O3'-P	11.03	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1746	DA	O3'-P	11.03	1.74	1.61
11	AB	1767	DA	O3'-P	11.03	1.74	1.61
11	AB	2801	DT	O3'-P	11.03	1.74	1.61
11	AB	7211	DA	O3'-P	11.03	1.74	1.61
32	C8	13	DT	O3'-P	11.03	1.74	1.61
165	OD	3	DA	O3'-P	11.03	1.74	1.61
191	RA	23	DA	O3'-P	11.03	1.74	1.61
7	A7	19	DT	O3'-P	11.03	1.74	1.61
11	AB	1507	DT	O3'-P	11.03	1.74	1.61
11	AB	1689	DT	O3'-P	11.03	1.74	1.61
11	AB	1865	DA	O3'-P	11.03	1.74	1.61
11	AB	1964	DT	O3'-P	11.03	1.74	1.61
11	AB	2423	DT	O3'-P	11.03	1.74	1.61
11	AB	4527	DA	O3'-P	11.03	1.74	1.61
11	AB	4878	DA	O3'-P	11.03	1.74	1.61
11	AB	5538	DT	O3'-P	11.03	1.74	1.61
11	AB	5564	DA	O3'-P	11.03	1.74	1.61
11	AB	5580	DT	O3'-P	11.03	1.74	1.61
11	AB	5809	DT	O3'-P	11.03	1.74	1.61
11	AB	7121	DA	O3'-P	11.03	1.74	1.61
165	OD	30	DA	O3'-P	11.03	1.74	1.61
29	C5	29	DA	O3'-P	11.03	1.74	1.61
30	C6	27	DT	O3'-P	11.03	1.74	1.61
48	E1	3	DA	O3'-P	11.03	1.74	1.61
51	E5	17	DT	O3'-P	11.03	1.74	1.61
53	E7	5	DT	O3'-P	11.03	1.74	1.61
124	KD	8	DT	O3'-P	11.03	1.74	1.61
133	LA	21	DT	O3'-P	11.03	1.74	1.61
158	O5	12	DA	O3'-P	11.03	1.74	1.61
162	O9	20	DA	O3'-P	11.03	1.74	1.61
209	TA	2	DA	O3'-P	11.03	1.74	1.61
210	TC	13	DT	O3'-P	11.03	1.74	1.61
230	W3	11	DT	O3'-P	11.03	1.74	1.61
11	AB	609	DT	O3'-P	11.03	1.74	1.61
11	AB	3572	DT	O3'-P	11.03	1.74	1.61
11	AB	656	DT	O3'-P	11.03	1.74	1.61
11	AB	1129	DT	O3'-P	11.03	1.74	1.61
11	AB	1302	DT	O3'-P	11.03	1.74	1.61
11	AB	1397	DT	O3'-P	11.03	1.74	1.61
11	AB	1716	DT	O3'-P	11.03	1.74	1.61
11	AB	1719	DT	O3'-P	11.03	1.74	1.61
11	AB	2086	DT	O3'-P	11.03	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2473	DA	O3'-P	11.03	1.74	1.61
11	AB	2858	DT	O3'-P	11.03	1.74	1.61
11	AB	2125	DA	O3'-P	11.03	1.74	1.61
11	AB	2357	DT	O3'-P	11.03	1.74	1.61
11	AB	3226	DA	O3'-P	11.03	1.74	1.61
11	AB	3257	DA	O3'-P	11.03	1.74	1.61
11	AB	3581	DA	O3'-P	11.03	1.74	1.61
11	AB	3800	DT	O3'-P	11.03	1.74	1.61
11	AB	4605	DT	O3'-P	11.03	1.74	1.61
11	AB	4797	DT	O3'-P	11.03	1.74	1.61
11	AB	5462	DT	O3'-P	11.03	1.74	1.61
11	AB	6365	DA	O3'-P	11.03	1.74	1.61
204	T3	33	DT	O3'-P	11.03	1.74	1.61
11	AB	5291	DT	O3'-P	11.03	1.74	1.61
11	AB	5537	DT	O3'-P	11.03	1.74	1.61
11	AB	6398	DT	O3'-P	11.03	1.74	1.61
11	AB	7088	DT	O3'-P	11.03	1.74	1.61
29	C5	7	DA	O3'-P	11.03	1.74	1.61
63	F6	19	DA	O3'-P	11.03	1.74	1.61
117	K5	5	DA	O3'-P	11.03	1.74	1.61
11	AB	7092	DT	O3'-P	11.03	1.74	1.61
15	B2	12	DT	O3'-P	11.03	1.74	1.61
18	B5	26	DA	O3'-P	11.03	1.74	1.61
52	E6	2	DT	O3'-P	11.03	1.74	1.61
74	G6	25	DT	O3'-P	11.03	1.74	1.61
24	BC	17	DA	O3'-P	11.03	1.74	1.61
67	FA	25	DT	O3'-P	11.03	1.74	1.61
77	G9	6	DT	O3'-P	11.03	1.74	1.61
89	HA	16	DT	O3'-P	11.03	1.74	1.61
99	I9	1	DT	O3'-P	11.03	1.74	1.61
138	M5	39	DT	O3'-P	11.03	1.74	1.61
150	N7	16	DT	O3'-P	11.03	1.74	1.61
207	T8	24	DT	O3'-P	11.03	1.74	1.61
225	V8	16	DT	O3'-P	11.03	1.74	1.61
231	W5	29	DT	O3'-P	11.03	1.74	1.61
152	N9	51	DA	O3'-P	11.03	1.74	1.61
178	Q5	13	DT	O3'-P	11.03	1.74	1.61
191	RA	28	DT	O3'-P	11.03	1.74	1.61
203	T2	15	DT	O3'-P	11.03	1.74	1.61
11	AB	170	DA	O3'-P	11.03	1.74	1.61
11	AB	566	DT	O3'-P	11.03	1.74	1.61
11	AB	1084	DA	O3'-P	11.03	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1148	DT	O3'-P	11.03	1.74	1.61
11	AB	1680	DT	O3'-P	11.03	1.74	1.61
11	AB	1957	DT	O3'-P	11.03	1.74	1.61
11	AB	3388	DA	O3'-P	11.03	1.74	1.61
11	AB	4054	DA	O3'-P	11.03	1.74	1.61
11	AB	6101	DT	O3'-P	11.03	1.74	1.61
230	W3	26	DT	O3'-P	11.03	1.74	1.61
11	AB	4274	DT	O3'-P	11.03	1.74	1.61
11	AB	4762	DT	O3'-P	11.03	1.74	1.61
11	AB	5612	DA	O3'-P	11.03	1.74	1.61
11	AB	5784	DT	O3'-P	11.03	1.74	1.61
11	AB	5790	DT	O3'-P	11.03	1.74	1.61
11	AB	6007	DT	O3'-P	11.03	1.74	1.61
11	AB	6569	DT	O3'-P	11.03	1.74	1.61
11	AB	6598	DT	O3'-P	11.03	1.74	1.61
11	AB	7047	DT	O3'-P	11.03	1.74	1.61
11	AB	7063	DT	O3'-P	11.03	1.74	1.61
12	AC	12	DT	O3'-P	11.03	1.74	1.61
23	BA	12	DA	O3'-P	11.03	1.74	1.61
26	C1	15	DT	O3'-P	11.03	1.74	1.61
44	D9	20	DT	O3'-P	11.03	1.74	1.61
53	E7	9	DT	O3'-P	11.03	1.74	1.61
80	GD	7	DT	O3'-P	11.03	1.74	1.61
89	HA	15	DT	O3'-P	11.03	1.74	1.61
108	J7	43	DT	O3'-P	11.03	1.74	1.61
114	K1	37	DT	O3'-P	11.03	1.74	1.61
140	M7	20	DA	O3'-P	11.03	1.74	1.61
168	P5	13	DT	O3'-P	11.03	1.74	1.61
221	V2	23	DT	O3'-P	11.03	1.74	1.61
11	AB	257	DT	O3'-P	11.02	1.74	1.61
11	AB	810	DT	O3'-P	11.02	1.74	1.61
11	AB	1070	DT	O3'-P	11.02	1.74	1.61
11	AB	1241	DT	O3'-P	11.02	1.74	1.61
11	AB	1934	DT	O3'-P	11.02	1.74	1.61
11	AB	2248	DA	O3'-P	11.02	1.74	1.61
11	AB	3058	DA	O3'-P	11.02	1.74	1.61
40	D5	9	DT	O3'-P	11.02	1.74	1.61
114	K1	2	DA	O3'-P	11.02	1.74	1.61
232	W7	15	DA	O3'-P	11.02	1.74	1.61
11	AB	1388	DT	O3'-P	11.02	1.74	1.61
11	AB	1652	DA	O3'-P	11.02	1.74	1.61
11	AB	1793	DA	O3'-P	11.02	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2463	DA	O3'-P	11.02	1.74	1.61
11	AB	3037	DA	O3'-P	11.02	1.74	1.61
11	AB	5403	DA	O3'-P	11.02	1.74	1.61
11	AB	6686	DA	O3'-P	11.02	1.74	1.61
47	DD	12	DA	O3'-P	11.02	1.74	1.61
137	M3	27	DT	O3'-P	11.02	1.74	1.61
170	P7	8	DT	O3'-P	11.02	1.74	1.61
176	Q2	21	DA	O3'-P	11.02	1.74	1.61
191	RA	29	DT	O3'-P	11.02	1.74	1.61
11	AB	2182	DT	O3'-P	11.02	1.74	1.61
11	AB	2965	DT	O3'-P	11.02	1.74	1.61
11	AB	3094	DA	O3'-P	11.02	1.74	1.61
11	AB	3161	DT	O3'-P	11.02	1.74	1.61
11	AB	3195	DT	O3'-P	11.02	1.74	1.61
11	AB	3715	DT	O3'-P	11.02	1.74	1.61
11	AB	3751	DA	O3'-P	11.02	1.74	1.61
11	AB	4585	DA	O3'-P	11.02	1.74	1.61
11	AB	5553	DA	O3'-P	11.02	1.74	1.61
11	AB	5665	DA	O3'-P	11.02	1.74	1.61
11	AB	5880	DT	O3'-P	11.02	1.74	1.61
11	AB	7006	DA	O3'-P	11.02	1.74	1.61
13	AD	23	DT	O3'-P	11.02	1.74	1.61
18	B5	19	DT	O3'-P	11.02	1.74	1.61
20	B7	14	DT	O3'-P	11.02	1.74	1.61
23	BA	25	DT	O3'-P	11.02	1.74	1.61
49	E2	9	DT	O3'-P	11.02	1.74	1.61
69	FD	35	DA	O3'-P	11.02	1.74	1.61
132	L9	5	DA	O3'-P	11.02	1.74	1.61
149	N6	16	DT	O3'-P	11.02	1.74	1.61
154	NC	11	DA	O3'-P	11.02	1.74	1.61
181	Q9	29	DT	O3'-P	11.02	1.74	1.61
189	R8	17	DT	O3'-P	11.02	1.74	1.61
212	U2	23	DT	O3'-P	11.02	1.74	1.61
183	QC	24	DT	O3'-P	11.02	1.74	1.61
193	RD	20	DA	O3'-P	11.02	1.74	1.61
231	W5	28	DT	O3'-P	11.02	1.74	1.61
11	AB	189	DT	O3'-P	11.02	1.74	1.61
11	AB	465	DA	O3'-P	11.02	1.74	1.61
11	AB	974	DT	O3'-P	11.02	1.74	1.61
11	AB	2821	DT	O3'-P	11.02	1.74	1.61
182	QA	27	DT	O3'-P	11.02	1.74	1.61
11	AB	632	DT	O3'-P	11.02	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1918	DA	O3'-P	11.02	1.74	1.61
11	AB	6078	DT	O3'-P	11.02	1.74	1.61
11	AB	3117	DT	O3'-P	11.02	1.74	1.61
11	AB	3763	DC	O3'-P	11.02	1.74	1.61
11	AB	3970	DA	O3'-P	11.02	1.74	1.61
11	AB	4474	DA	O3'-P	11.02	1.74	1.61
11	AB	5370	DT	O3'-P	11.02	1.74	1.61
11	AB	6323	DT	O3'-P	11.02	1.74	1.61
11	AB	7075	DT	O3'-P	11.02	1.74	1.61
11	AB	7096	DT	O3'-P	11.02	1.74	1.61
18	B5	18	DT	O3'-P	11.02	1.74	1.61
114	K1	13	DT	O3'-P	11.02	1.74	1.61
126	L2	55	DA	O3'-P	11.02	1.74	1.61
133	LA	9	DT	O3'-P	11.02	1.74	1.61
145	MD	34	DT	O3'-P	11.02	1.74	1.61
145	MD	35	DT	O3'-P	11.02	1.74	1.61
193	RD	14	DA	O3'-P	11.02	1.74	1.61
198	S8	41	DT	O3'-P	11.02	1.74	1.61
229	VD	20	DT	O3'-P	11.02	1.74	1.61
11	AB	50	DA	O3'-P	11.02	1.74	1.61
11	AB	239	DT	O3'-P	11.02	1.74	1.61
11	AB	1817	DT	O3'-P	11.02	1.74	1.61
5	A5	21	DT	O3'-P	11.02	1.74	1.61
11	AB	572	DT	O3'-P	11.02	1.74	1.61
11	AB	1120	DT	O3'-P	11.02	1.74	1.61
11	AB	1710	DT	O3'-P	11.02	1.74	1.61
11	AB	4618	DT	O3'-P	11.02	1.74	1.61
11	AB	5820	DT	O3'-P	11.02	1.74	1.61
176	Q2	9	DA	O3'-P	11.02	1.74	1.61
11	AB	1843	DT	O3'-P	11.02	1.74	1.61
11	AB	1917	DA	O3'-P	11.02	1.74	1.61
11	AB	2290	DA	O3'-P	11.02	1.74	1.61
11	AB	2335	DT	O3'-P	11.02	1.74	1.61
11	AB	2605	DT	O3'-P	11.02	1.74	1.61
11	AB	2963	DT	O3'-P	11.02	1.74	1.61
11	AB	5308	DT	O3'-P	11.02	1.74	1.61
11	AB	5598	DT	O3'-P	11.02	1.74	1.61
12	AC	14	DT	O3'-P	11.02	1.74	1.61
79	GC	19	DT	O3'-P	11.02	1.74	1.61
23	BA	22	DT	O3'-P	11.02	1.74	1.61
26	C1	12	DT	O3'-P	11.02	1.74	1.61
32	C8	1	DA	O3'-P	11.02	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	E9	6	DT	O3'-P	11.02	1.74	1.61
104	J2	40	DA	O3'-P	11.02	1.74	1.61
112	JC	19	DT	O3'-P	11.02	1.74	1.61
115	K2	7	DT	O3'-P	11.02	1.74	1.61
148	N5	31	DA	O3'-P	11.02	1.74	1.61
177	Q3	13	DT	O3'-P	11.02	1.74	1.61
228	VC	19	DC	O3'-P	11.02	1.74	1.61
214	U5	41	DT	O3'-P	11.02	1.74	1.61
223	V5	40	DT	O3'-P	11.02	1.74	1.61
1	A1	54	DT	O3'-P	11.01	1.74	1.61
11	AB	1596	DA	O3'-P	11.01	1.74	1.61
11	AB	1965	DT	O3'-P	11.01	1.74	1.61
11	AB	2596	DT	O3'-P	11.01	1.74	1.61
11	AB	3311	DT	O3'-P	11.01	1.74	1.61
11	AB	4617	DT	O3'-P	11.01	1.74	1.61
11	AB	5367	DT	O3'-P	11.01	1.74	1.61
11	AB	5523	DT	O3'-P	11.01	1.74	1.61
31	C7	21	DA	O3'-P	11.01	1.74	1.61
62	F5	11	DA	O3'-P	11.01	1.74	1.61
186	R3	8	DA	O3'-P	11.01	1.74	1.61
8	A8	18	DT	O3'-P	11.01	1.74	1.61
11	AB	986	DA	O3'-P	11.01	1.74	1.61
11	AB	1543	DT	O3'-P	11.01	1.74	1.61
11	AB	1838	DT	O3'-P	11.01	1.74	1.61
11	AB	1682	DT	O3'-P	11.01	1.74	1.61
11	AB	1686	DT	O3'-P	11.01	1.74	1.61
11	AB	1852	DG	O3'-P	11.01	1.74	1.61
11	AB	1985	DT	O3'-P	11.01	1.74	1.61
11	AB	2708	DT	O3'-P	11.01	1.74	1.61
11	AB	4045	DA	O3'-P	11.01	1.74	1.61
11	AB	4387	DA	O3'-P	11.01	1.74	1.61
11	AB	6110	DA	O3'-P	11.01	1.74	1.61
11	AB	6655	DA	O3'-P	11.01	1.74	1.61
11	AB	6668	DT	O3'-P	11.01	1.74	1.61
11	AB	6676	DA	O3'-P	11.01	1.74	1.61
11	AB	7095	DT	O3'-P	11.01	1.74	1.61
14	B1	12	DT	O3'-P	11.01	1.74	1.61
18	B5	31	DA	O3'-P	11.01	1.74	1.61
53	E7	7	DA	O3'-P	11.01	1.74	1.61
105	J3	13	DT	O3'-P	11.01	1.74	1.61
130	L7	51	DT	O3'-P	11.01	1.74	1.61
145	MD	57	DA	O3'-P	11.01	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
170	P7	20	DA	O3'-P	11.01	1.74	1.61
233	W8	23	DT	O3'-P	11.01	1.74	1.61
143	MA	28	DA	O3'-P	11.01	1.74	1.61
149	N6	14	DT	O3'-P	11.01	1.74	1.61
230	W3	29	DA	O3'-P	11.01	1.74	1.61
159	O6	18	DA	O3'-P	11.01	1.74	1.61
165	OD	8	DA	O3'-P	11.01	1.74	1.61
177	Q3	6	DT	O3'-P	11.01	1.74	1.61
181	Q9	3	DA	O3'-P	11.01	1.74	1.61
196	S5	5	DT	O3'-P	11.01	1.74	1.61
201	SC	15	DA	O3'-P	11.01	1.74	1.61
206	T7	26	DT	O3'-P	11.01	1.74	1.61
229	VD	12	DA	O3'-P	11.01	1.74	1.61
4	A4	20	DT	O3'-P	11.01	1.74	1.61
11	AB	84	DA	O3'-P	11.01	1.74	1.61
11	AB	147	DA	O3'-P	11.01	1.74	1.61
11	AB	1158	DT	O3'-P	11.01	1.74	1.61
11	AB	59	DA	O3'-P	11.01	1.74	1.61
11	AB	1324	DT	O3'-P	11.01	1.74	1.61
11	AB	1373	DT	O3'-P	11.01	1.74	1.61
11	AB	2069	DT	O3'-P	11.01	1.74	1.61
11	AB	2116	DT	O3'-P	11.01	1.74	1.61
11	AB	2811	DT	O3'-P	11.01	1.74	1.61
11	AB	3074	DA	O3'-P	11.01	1.74	1.61
11	AB	3101	DA	O3'-P	11.01	1.74	1.61
11	AB	3321	DT	O3'-P	11.01	1.74	1.61
11	AB	3433	DT	O3'-P	11.01	1.74	1.61
11	AB	3557	DT	O3'-P	11.01	1.74	1.61
11	AB	4102	DT	O3'-P	11.01	1.74	1.61
11	AB	4434	DT	O3'-P	11.01	1.74	1.61
11	AB	5156	DT	O3'-P	11.01	1.74	1.61
11	AB	5444	DT	O3'-P	11.01	1.74	1.61
11	AB	6584	DT	O3'-P	11.01	1.74	1.61
214	U5	23	DT	O3'-P	11.01	1.74	1.61
11	AB	5485	DA	O3'-P	11.01	1.74	1.61
11	AB	5933	DA	O3'-P	11.01	1.74	1.61
11	AB	7033	DT	O3'-P	11.01	1.74	1.61
11	AB	7097	DT	O3'-P	11.01	1.74	1.61
14	B1	15	DA	O3'-P	11.01	1.74	1.61
94	I3	15	DA	O3'-P	11.01	1.74	1.61
25	BD	18	DT	O3'-P	11.01	1.74	1.61
46	DC	11	DA	O3'-P	11.01	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
71	G2	17	DA	O3'-P	11.01	1.74	1.61
72	G3	16	DT	O3'-P	11.01	1.74	1.61
73	G5	10	DT	O3'-P	11.01	1.74	1.61
111	JA	2	DT	O3'-P	11.01	1.74	1.61
137	M3	1	DA	O3'-P	11.01	1.74	1.61
159	O6	2	DT	O3'-P	11.01	1.74	1.61
178	Q5	1	DA	O3'-P	11.01	1.74	1.61
190	R9	37	DT	O3'-P	11.01	1.74	1.61
192	RC	29	DT	O3'-P	11.01	1.74	1.61
215	U7	9	DT	O3'-P	11.01	1.74	1.61
11	AB	1564	DT	O3'-P	11.01	1.74	1.61
11	AB	2585	DT	O3'-P	11.01	1.74	1.61
11	AB	2632	DA	O3'-P	11.01	1.74	1.61
11	AB	3906	DT	O3'-P	11.01	1.74	1.61
11	AB	4613	DT	O3'-P	11.01	1.74	1.61
11	AB	5141	DT	O3'-P	11.01	1.74	1.61
11	AB	5384	DT	O3'-P	11.01	1.74	1.61
40	D5	15	DT	O3'-P	11.01	1.74	1.61
59	F1	14	DA	O3'-P	11.01	1.74	1.61
62	F5	9	DT	O3'-P	11.01	1.74	1.61
62	F5	36	DT	O3'-P	11.01	1.74	1.61
105	J3	18	DT	O3'-P	11.01	1.74	1.61
125	L1	46	DT	O3'-P	11.01	1.74	1.61
131	L8	21	DA	O3'-P	11.01	1.74	1.61
11	AB	252	DT	O3'-P	11.01	1.74	1.61
11	AB	683	DC	O3'-P	11.01	1.74	1.61
11	AB	698	DT	O3'-P	11.01	1.74	1.61
11	AB	1121	DT	O3'-P	11.01	1.74	1.61
11	AB	1711	DT	O3'-P	11.01	1.74	1.61
11	AB	1831	DT	O3'-P	11.01	1.74	1.61
11	AB	2405	DT	O3'-P	11.01	1.74	1.61
11	AB	2503	DT	O3'-P	11.01	1.74	1.61
11	AB	2572	DA	O3'-P	11.01	1.74	1.61
11	AB	3893	DA	O3'-P	11.01	1.74	1.61
11	AB	6361	DA	O3'-P	11.01	1.74	1.61
11	AB	6958	DT	O3'-P	11.01	1.74	1.61
11	AB	7034	DT	O3'-P	11.01	1.74	1.61
69	FD	20	DA	O3'-P	11.01	1.74	1.61
168	P5	16	DT	O3'-P	11.01	1.74	1.61
11	AB	2508	DT	O3'-P	11.01	1.74	1.61
11	AB	3202	DA	O3'-P	11.01	1.74	1.61
11	AB	3349	DT	O3'-P	11.01	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3434	DT	O3'-P	11.01	1.74	1.61
11	AB	3716	DT	O3'-P	11.01	1.74	1.61
11	AB	4223	DT	O3'-P	11.01	1.74	1.61
11	AB	4326	DT	O3'-P	11.01	1.74	1.61
11	AB	4370	DA	O3'-P	11.01	1.74	1.61
11	AB	4433	DT	O3'-P	11.01	1.74	1.61
11	AB	5581	DT	O3'-P	11.01	1.74	1.61
11	AB	5799	DC	O3'-P	11.01	1.74	1.61
11	AB	5803	DT	O3'-P	11.01	1.74	1.61
11	AB	6127	DT	O3'-P	11.01	1.74	1.61
11	AB	5978	DA	O3'-P	11.01	1.74	1.61
11	AB	6011	DT	O3'-P	11.01	1.74	1.61
11	AB	6184	DT	O3'-P	11.01	1.74	1.61
11	AB	6234	DT	O3'-P	11.01	1.74	1.61
11	AB	6545	DA	O3'-P	11.01	1.74	1.61
11	AB	6588	DT	O3'-P	11.01	1.74	1.61
13	AD	12	DT	O3'-P	11.01	1.74	1.61
34	CA	9	DA	O3'-P	11.01	1.74	1.61
50	E3	13	DA	O3'-P	11.01	1.74	1.61
120	K8	19	DT	O3'-P	11.01	1.74	1.61
127	L3	8	DA	O3'-P	11.01	1.74	1.61
130	L7	2	DA	O3'-P	11.01	1.74	1.61
133	LA	4	DT	O3'-P	11.01	1.74	1.61
145	MD	43	DA	O3'-P	11.01	1.74	1.61
152	N9	50	DT	O3'-P	11.01	1.74	1.61
176	Q2	22	DA	O3'-P	11.01	1.74	1.61
11	AB	6681	DA	O3'-P	11.01	1.74	1.61
22	B9	26	DA	O3'-P	11.01	1.74	1.61
58	ED	13	DA	O3'-P	11.01	1.74	1.61
69	FD	27	DT	O3'-P	11.01	1.74	1.61
136	M2	9	DA	O3'-P	11.01	1.74	1.61
198	S8	35	DA	O3'-P	11.01	1.74	1.61
92	I1	5	DA	O3'-P	11.01	1.74	1.61
122	KA	20	DT	O3'-P	11.01	1.74	1.61
141	M8	5	DA	O3'-P	11.01	1.74	1.61
165	OD	2	DA	O3'-P	11.01	1.74	1.61
189	R8	6	DT	O3'-P	11.01	1.74	1.61
190	R9	24	DT	O3'-P	11.01	1.74	1.61
209	TA	36	DA	O3'-P	11.01	1.74	1.61
227	VA	25	DT	O3'-P	11.01	1.74	1.61
87	H8	22	DA	O3'-P	11.00	1.74	1.61
113	JD	36	DA	O3'-P	11.00	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	620	DT	O3'-P	11.00	1.74	1.61
11	AB	1313	DT	O3'-P	11.00	1.74	1.61
11	AB	1545	DT	O3'-P	11.00	1.74	1.61
11	AB	1566	DT	O3'-P	11.00	1.74	1.61
11	AB	3327	DT	O3'-P	11.00	1.74	1.61
11	AB	3331	DT	O3'-P	11.00	1.74	1.61
11	AB	3365	DA	O3'-P	11.00	1.74	1.61
11	AB	3467	DT	O3'-P	11.00	1.74	1.61
11	AB	3506	DT	O3'-P	11.00	1.74	1.61
11	AB	3786	DT	O3'-P	11.00	1.74	1.61
11	AB	6152	DA	O3'-P	11.00	1.74	1.61
11	AB	6657	DT	O3'-P	11.00	1.74	1.61
195	S3	15	DA	O3'-P	11.00	1.74	1.61
212	U2	8	DA	O3'-P	11.00	1.74	1.61
11	AB	5284	DT	O3'-P	11.00	1.74	1.61
11	AB	5994	DT	O3'-P	11.00	1.74	1.61
11	AB	6035	DA	O3'-P	11.00	1.74	1.61
11	AB	6626	DA	O3'-P	11.00	1.74	1.61
11	AB	7143	DA	O3'-P	11.00	1.74	1.61
41	D6	31	DT	O3'-P	11.00	1.74	1.61
62	F5	22	DT	O3'-P	11.00	1.74	1.61
70	G1	1	DT	O3'-P	11.00	1.74	1.61
72	G3	5	DT	O3'-P	11.00	1.74	1.61
114	K1	6	DA	O3'-P	11.00	1.74	1.61
130	L7	15	DA	O3'-P	11.00	1.74	1.61
135	LD	14	DA	O3'-P	11.00	1.74	1.61
138	M5	26	DT	O3'-P	11.00	1.74	1.61
138	M5	33	DA	O3'-P	11.00	1.74	1.61
140	M7	25	DA	O3'-P	11.00	1.74	1.61
52	E6	34	DC	O3'-P	11.00	1.74	1.61
11	AB	466	DA	O3'-P	11.00	1.74	1.61
11	AB	3135	DT	O3'-P	11.00	1.74	1.61
11	AB	3297	DT	O3'-P	11.00	1.74	1.61
11	AB	3624	DT	O3'-P	11.00	1.74	1.61
11	AB	5076	DT	O3'-P	11.00	1.74	1.61
11	AB	5394	DT	O3'-P	11.00	1.74	1.61
11	AB	5731	DT	O3'-P	11.00	1.74	1.61
11	AB	6258	DT	O3'-P	11.00	1.74	1.61
64	F7	10	DA	O3'-P	11.00	1.74	1.61
83	H3	20	DA	O3'-P	11.00	1.74	1.61
144	MC	16	DT	O3'-P	11.00	1.74	1.61
22	B9	51	DA	O3'-P	11.00	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	D8	45	DT	O3'-P	11.00	1.74	1.61
81	H1	15	DA	O3'-P	11.00	1.74	1.61
86	H7	18	DT	O3'-P	11.00	1.74	1.61
110	J9	5	DT	O3'-P	11.00	1.74	1.61
112	JC	20	DT	O3'-P	11.00	1.74	1.61
116	K3	17	DA	O3'-P	11.00	1.74	1.61
120	K8	14	DC	O3'-P	11.00	1.74	1.61
137	M3	6	DA	O3'-P	11.00	1.74	1.61
172	P9	7	DA	O3'-P	11.00	1.74	1.61
173	PA	30	DA	O3'-P	11.00	1.74	1.61
175	PD	18	DC	O3'-P	11.00	1.74	1.61
192	RC	30	DT	O3'-P	11.00	1.74	1.61
217	U9	26	DT	O3'-P	11.00	1.74	1.61
223	V5	35	DT	O3'-P	11.00	1.74	1.61
11	AB	88	DA	O3'-P	11.00	1.74	1.61
11	AB	787	DA	O3'-P	11.00	1.74	1.61
11	AB	2097	DT	O3'-P	11.00	1.74	1.61
11	AB	2847	DT	O3'-P	11.00	1.74	1.61
11	AB	3067	DA	O3'-P	11.00	1.74	1.61
233	W8	11	DA	O3'-P	11.00	1.74	1.61
11	AB	830	DC	O3'-P	11.00	1.74	1.61
11	AB	2814	DT	O3'-P	11.00	1.74	1.61
11	AB	4208	DA	O3'-P	11.00	1.74	1.61
11	AB	4414	DT	O3'-P	11.00	1.74	1.61
11	AB	4769	DT	O3'-P	11.00	1.74	1.61
11	AB	5022	DT	O3'-P	11.00	1.74	1.61
11	AB	5711	DT	O3'-P	11.00	1.74	1.61
11	AB	5714	DT	O3'-P	11.00	1.74	1.61
11	AB	6237	DT	O3'-P	11.00	1.74	1.61
11	AB	6302	DT	O3'-P	11.00	1.74	1.61
104	J2	19	DT	O3'-P	11.00	1.74	1.61
11	AB	6777	DA	O3'-P	11.00	1.74	1.61
11	AB	7111	DA	O3'-P	11.00	1.74	1.61
30	C6	5	DA	O3'-P	11.00	1.74	1.61
79	GC	24	DC	O3'-P	11.00	1.74	1.61
83	H3	33	DA	O3'-P	11.00	1.74	1.61
89	HA	18	DT	O3'-P	11.00	1.74	1.61
124	KD	9	DT	O3'-P	11.00	1.74	1.61
157	O3	14	DA	O3'-P	11.00	1.74	1.61
171	P8	9	DT	O3'-P	11.00	1.74	1.61
178	Q5	16	DA	O3'-P	11.00	1.74	1.61
194	S2	19	DA	O3'-P	11.00	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
203	T2	17	DA	O3'-P	11.00	1.74	1.61
216	U8	1	DT	O3'-P	11.00	1.74	1.61
3	A3	4	DT	O3'-P	10.99	1.74	1.61
11	AB	157	DA	O3'-P	10.99	1.74	1.61
11	AB	699	DT	O3'-P	10.99	1.74	1.61
94	I3	3	DT	O3'-P	10.99	1.74	1.61
159	O6	13	DA	O3'-P	10.99	1.74	1.61
7	A7	21	DA	O3'-P	10.99	1.74	1.61
11	AB	1063	DA	O3'-P	10.99	1.74	1.61
11	AB	1514	DA	O3'-P	10.99	1.74	1.61
11	AB	2051	DT	O3'-P	10.99	1.74	1.61
11	AB	3249	DA	O3'-P	10.99	1.74	1.61
11	AB	5377	DT	O3'-P	10.99	1.74	1.61
55	E9	35	DA	O3'-P	10.99	1.74	1.61
119	K7	24	DT	O3'-P	10.99	1.74	1.61
130	L7	13	DT	O3'-P	10.99	1.74	1.61
164	OC	21	DA	O3'-P	10.99	1.74	1.61
180	Q8	7	DA	O3'-P	10.99	1.74	1.61
11	AB	4237	DT	O3'-P	10.99	1.74	1.61
11	AB	5348	DT	O3'-P	10.99	1.74	1.61
11	AB	5352	DA	O3'-P	10.99	1.74	1.61
11	AB	5724	DT	O3'-P	10.99	1.74	1.61
11	AB	6975	DA	O3'-P	10.99	1.74	1.61
114	K1	33	DA	O3'-P	10.99	1.74	1.61
121	K9	17	DT	O3'-P	10.99	1.74	1.61
142	M9	13	DT	O3'-P	10.99	1.74	1.61
166	P2	29	DC	O3'-P	10.99	1.74	1.61
173	PA	12	DA	O3'-P	10.99	1.74	1.61
176	Q2	6	DA	O3'-P	10.99	1.74	1.61
194	S2	23	DA	O3'-P	10.99	1.74	1.61
198	S8	22	DA	O3'-P	10.99	1.74	1.61
11	AB	1133	DT	O3'-P	10.99	1.74	1.61
11	AB	1575	DT	O3'-P	10.99	1.74	1.61
11	AB	2666	DA	O3'-P	10.99	1.74	1.61
11	AB	2777	DA	O3'-P	10.99	1.74	1.61
11	AB	3971	DA	O3'-P	10.99	1.74	1.61
11	AB	5466	DT	O3'-P	10.99	1.74	1.61
11	AB	5561	DA	O3'-P	10.99	1.74	1.61
11	AB	5776	DA	O3'-P	10.99	1.74	1.61
88	H9	7	DT	O3'-P	10.99	1.74	1.61
158	O5	46	DA	O3'-P	10.99	1.74	1.61
198	S8	21	DA	O3'-P	10.99	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
126	L2	26	DC	O3'-P	10.99	1.74	1.61
11	AB	1503	DT	O3'-P	10.99	1.74	1.61
11	AB	380	DT	O3'-P	10.99	1.74	1.61
11	AB	1334	DC	O3'-P	10.99	1.74	1.61
11	AB	2703	DT	O3'-P	10.99	1.74	1.61
11	AB	4316	DT	O3'-P	10.99	1.74	1.61
11	AB	4804	DT	O3'-P	10.99	1.74	1.61
11	AB	6388	DA	O3'-P	10.99	1.74	1.61
24	BC	35	DT	O3'-P	10.99	1.74	1.61
11	AB	6425	DT	O3'-P	10.99	1.74	1.61
11	AB	7115	DT	O3'-P	10.99	1.74	1.61
62	F5	30	DT	O3'-P	10.99	1.74	1.61
146	N2	23	DC	O3'-P	10.99	1.74	1.61
190	R9	5	DT	O3'-P	10.99	1.74	1.61
190	R9	38	DT	O3'-P	10.99	1.74	1.61
11	AB	132	DT	O3'-P	10.98	1.74	1.61
11	AB	221	DT	O3'-P	10.98	1.74	1.61
11	AB	382	DT	O3'-P	10.98	1.74	1.61
11	AB	388	DT	O3'-P	10.98	1.74	1.61
11	AB	1539	DT	O3'-P	10.98	1.74	1.61
11	AB	1170	DA	O3'-P	10.98	1.74	1.61
11	AB	1761	DA	O3'-P	10.98	1.74	1.61
11	AB	2007	DA	O3'-P	10.98	1.74	1.61
11	AB	3071	DA	O3'-P	10.98	1.74	1.61
11	AB	2731	DA	O3'-P	10.98	1.74	1.61
11	AB	3339	DC	O3'-P	10.98	1.74	1.61
11	AB	3735	DA	O3'-P	10.98	1.74	1.61
11	AB	4317	DT	O3'-P	10.98	1.74	1.61
11	AB	6536	DA	O3'-P	10.98	1.74	1.61
198	S8	43	DT	O3'-P	10.98	1.74	1.61
11	AB	4371	DA	O3'-P	10.98	1.74	1.61
11	AB	5666	DA	O3'-P	10.98	1.74	1.61
11	AB	5882	DT	O3'-P	10.98	1.74	1.61
11	AB	6287	DA	O3'-P	10.98	1.74	1.61
11	AB	6682	DA	O3'-P	10.98	1.74	1.61
11	AB	7022	DA	O3'-P	10.98	1.74	1.61
34	CA	4	DA	O3'-P	10.98	1.74	1.61
49	E2	20	DA	O3'-P	10.98	1.74	1.61
52	E6	11	DA	O3'-P	10.98	1.74	1.61
98	I8	7	DA	O3'-P	10.98	1.74	1.61
108	J7	39	DA	O3'-P	10.98	1.74	1.61
113	JD	18	DA	O3'-P	10.98	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
126	L2	22	DT	O3'-P	10.98	1.74	1.61
143	MA	16	DT	O3'-P	10.98	1.74	1.61
176	Q2	7	DA	O3'-P	10.98	1.74	1.61
209	TA	37	DA	O3'-P	10.98	1.74	1.61
212	U2	7	DA	O3'-P	10.98	1.74	1.61
214	U5	32	DA	O3'-P	10.98	1.74	1.61
238	X9	28	DA	O3'-P	10.98	1.74	1.61
11	AB	267	DA	O3'-P	10.98	1.74	1.61
11	AB	1003	DA	O3'-P	10.98	1.74	1.61
11	AB	1869	DA	O3'-P	10.98	1.74	1.61
11	AB	2075	DA	O3'-P	10.98	1.74	1.61
11	AB	2895	DA	O3'-P	10.98	1.74	1.61
11	AB	2912	DA	O3'-P	10.98	1.74	1.61
11	AB	3972	DA	O3'-P	10.98	1.74	1.61
11	AB	5263	DA	O3'-P	10.98	1.74	1.61
232	W7	8	DA	O3'-P	10.98	1.74	1.61
11	AB	3571	DT	O3'-P	10.98	1.74	1.61
11	AB	3592	DA	O3'-P	10.98	1.74	1.61
11	AB	6055	DA	O3'-P	10.98	1.74	1.61
11	AB	6967	DA	O3'-P	10.98	1.74	1.61
55	E9	26	DA	O3'-P	10.98	1.74	1.61
165	OD	41	DA	O3'-P	10.98	1.74	1.61
194	S2	6	DA	O3'-P	10.98	1.74	1.61
11	AB	6048	DA	O3'-P	10.98	1.74	1.61
52	E6	1	DT	O3'-P	10.98	1.74	1.61
113	JD	6	DA	O3'-P	10.98	1.74	1.61
117	K5	14	DT	O3'-P	10.98	1.74	1.61
140	M7	23	DA	O3'-P	10.98	1.74	1.61
153	NA	18	DA	O3'-P	10.98	1.74	1.61
166	P2	32	DC	O3'-P	10.98	1.74	1.61
176	Q2	8	DA	O3'-P	10.98	1.74	1.61
179	Q7	15	DA	O3'-P	10.98	1.74	1.61
202	SD	8	DA	O3'-P	10.98	1.74	1.61
209	TA	19	DT	O3'-P	10.98	1.74	1.61
11	AB	1453	DA	O3'-P	10.98	1.74	1.61
6	A6	26	DA	O3'-P	10.98	1.74	1.61
11	AB	2411	DT	O3'-P	10.98	1.74	1.61
11	AB	3224	DT	O3'-P	10.98	1.74	1.61
11	AB	3545	DA	O3'-P	10.98	1.74	1.61
11	AB	3884	DA	O3'-P	10.98	1.74	1.61
11	AB	4697	DA	O3'-P	10.98	1.74	1.61
11	AB	2370	DA	O3'-P	10.98	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5406	DA	O3'-P	10.98	1.74	1.61
91	HD	13	DT	O3'-P	10.98	1.74	1.61
138	M5	40	DT	O3'-P	10.98	1.74	1.61
201	SC	16	DA	O3'-P	10.98	1.74	1.61
181	Q9	4	DA	O3'-P	10.98	1.74	1.61
184	QD	24	DA	O3'-P	10.98	1.74	1.61
198	S8	10	DT	O3'-P	10.98	1.74	1.61
234	W9	3	DA	O3'-P	10.98	1.74	1.61
8	A8	27	DT	O3'-P	10.97	1.74	1.61
11	AB	2101	DT	O3'-P	10.97	1.74	1.61
11	AB	4751	DT	O3'-P	10.97	1.74	1.61
11	AB	1533	DT	O3'-P	10.97	1.74	1.61
11	AB	1846	DT	O3'-P	10.97	1.74	1.61
11	AB	3014	DT	O3'-P	10.97	1.74	1.61
125	L1	30	DT	O3'-P	10.97	1.74	1.61
11	AB	3594	DA	O3'-P	10.97	1.74	1.61
11	AB	3617	DT	O3'-P	10.97	1.74	1.61
11	AB	4560	DA	O3'-P	10.97	1.74	1.61
11	AB	4586	DA	O3'-P	10.97	1.74	1.61
34	CA	7	DA	O3'-P	10.97	1.74	1.61
11	AB	6599	DT	O3'-P	10.97	1.74	1.61
11	AB	6925	DA	O3'-P	10.97	1.74	1.61
25	BD	13	DA	O3'-P	10.97	1.74	1.61
82	H2	23	DA	O3'-P	10.97	1.74	1.61
85	H6	32	DA	O3'-P	10.97	1.74	1.61
121	K9	10	DA	O3'-P	10.97	1.74	1.61
148	N5	33	DT	O3'-P	10.97	1.74	1.61
155	ND	8	DA	O3'-P	10.97	1.74	1.61
174	PC	16	DA	O3'-P	10.97	1.74	1.61
184	QD	26	DA	O3'-P	10.97	1.74	1.61
191	RA	22	DA	O3'-P	10.97	1.74	1.61
202	SD	28	DT	O3'-P	10.97	1.74	1.61
237	X7	22	DT	O3'-P	10.97	1.74	1.61
11	AB	995	DA	O3'-P	10.97	1.74	1.61
11	AB	5950	DA	O3'-P	10.97	1.74	1.61
22	B9	25	DA	O3'-P	10.97	1.74	1.61
47	DD	31	DA	O3'-P	10.97	1.74	1.61
61	F3	11	DA	O3'-P	10.97	1.74	1.61
11	AB	1483	DA	O3'-P	10.97	1.74	1.61
11	AB	1513	DT	O3'-P	10.97	1.74	1.61
11	AB	3078	DA	O3'-P	10.97	1.74	1.61
11	AB	3198	DA	O3'-P	10.97	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3280	DT	O3'-P	10.97	1.74	1.61
11	AB	5171	DA	O3'-P	10.97	1.74	1.61
11	AB	7220	DT	O3'-P	10.97	1.74	1.61
81	H1	16	DA	O3'-P	10.97	1.74	1.61
83	H3	32	DA	O3'-P	10.97	1.74	1.61
11	AB	6407	DC	O3'-P	10.97	1.74	1.61
29	C5	24	DT	O3'-P	10.97	1.74	1.61
41	D6	10	DA	O3'-P	10.97	1.74	1.61
69	FD	4	DA	O3'-P	10.97	1.74	1.61
217	U9	8	DC	O3'-P	10.97	1.74	1.61
226	V9	1	DA	O3'-P	10.97	1.74	1.61
48	E1	28	DA	O3'-P	10.97	1.74	1.61
102	ID	19	DA	O3'-P	10.97	1.74	1.61
107	J6	13	DA	O3'-P	10.97	1.74	1.61
121	K9	12	DA	O3'-P	10.97	1.74	1.61
151	N8	6	DC	O3'-P	10.97	1.74	1.61
5	A5	17	DT	O3'-P	10.97	1.74	1.61
11	AB	7236	DC	O3'-P	10.97	1.74	1.61
6	A6	11	DA	O3'-P	10.97	1.74	1.61
11	AB	97	DA	O3'-P	10.97	1.74	1.61
11	AB	254	DT	O3'-P	10.97	1.74	1.61
11	AB	610	DT	O3'-P	10.97	1.74	1.61
11	AB	1186	DA	O3'-P	10.97	1.74	1.61
11	AB	1413	DA	O3'-P	10.97	1.74	1.61
11	AB	1764	DA	O3'-P	10.97	1.74	1.61
11	AB	1873	DT	O3'-P	10.97	1.74	1.61
11	AB	1895	DC	O3'-P	10.97	1.74	1.61
11	AB	3027	DT	O3'-P	10.97	1.74	1.61
11	AB	3193	DT	O3'-P	10.97	1.74	1.61
11	AB	3281	DT	O3'-P	10.97	1.74	1.61
11	AB	3712	DC	O3'-P	10.97	1.74	1.61
11	AB	3745	DA	O3'-P	10.97	1.74	1.61
11	AB	4780	DA	O3'-P	10.97	1.74	1.61
11	AB	4894	DA	O3'-P	10.97	1.74	1.61
11	AB	5667	DA	O3'-P	10.97	1.74	1.61
17	B4	6	DT	O3'-P	10.97	1.74	1.61
160	O7	30	DC	O3'-P	10.97	1.74	1.61
11	AB	4429	DC	O3'-P	10.97	1.74	1.61
11	AB	4578	DA	O3'-P	10.97	1.74	1.61
11	AB	5332	DA	O3'-P	10.97	1.74	1.61
11	AB	5911	DA	O3'-P	10.97	1.74	1.61
23	BA	19	DA	O3'-P	10.97	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
28	C3	11	DA	O3'-P	10.97	1.74	1.61
44	D9	8	DT	O3'-P	10.97	1.74	1.61
49	E2	36	DA	O3'-P	10.97	1.74	1.61
75	G7	12	DT	O3'-P	10.97	1.74	1.61
129	L6	11	DA	O3'-P	10.97	1.74	1.61
156	O2	20	DA	O3'-P	10.97	1.74	1.61
196	S5	25	DT	O3'-P	10.97	1.74	1.61
206	T7	48	DA	O3'-P	10.97	1.74	1.61
11	AB	996	DA	O3'-P	10.97	1.74	1.61
11	AB	1139	DT	O3'-P	10.97	1.74	1.61
11	AB	2304	DA	O3'-P	10.97	1.74	1.61
190	R9	34	DT	O3'-P	10.97	1.74	1.61
1	A1	46	DA	O3'-P	10.96	1.74	1.61
8	A8	12	DT	O3'-P	10.96	1.74	1.61
11	AB	2010	DA	O3'-P	10.96	1.74	1.61
11	AB	2233	DT	O3'-P	10.96	1.74	1.61
11	AB	2471	DA	O3'-P	10.96	1.74	1.61
11	AB	2776	DA	O3'-P	10.96	1.74	1.61
11	AB	3079	DA	O3'-P	10.96	1.74	1.61
11	AB	3217	DA	O3'-P	10.97	1.74	1.61
11	AB	3736	DA	O3'-P	10.96	1.74	1.61
11	AB	4222	DT	O3'-P	10.96	1.74	1.61
11	AB	5841	DA	O3'-P	10.96	1.74	1.61
11	AB	6109	DA	O3'-P	10.97	1.74	1.61
11	AB	6691	DA	O3'-P	10.96	1.74	1.61
102	ID	18	DA	O3'-P	10.96	1.74	1.61
136	M2	14	DA	O3'-P	10.96	1.74	1.61
145	MD	5	DA	O3'-P	10.97	1.74	1.61
228	VC	3	DA	O3'-P	10.97	1.74	1.61
171	P8	21	DT	O3'-P	10.96	1.74	1.61
192	RC	13	DA	O3'-P	10.96	1.74	1.61
11	AB	71	DA	O3'-P	10.96	1.74	1.61
11	AB	72	DA	O3'-P	10.96	1.74	1.61
11	AB	2472	DA	O3'-P	10.96	1.74	1.61
11	AB	4252	DC	O3'-P	10.96	1.74	1.61
11	AB	5363	DT	O3'-P	10.96	1.74	1.61
32	C8	51	DT	O3'-P	10.96	1.74	1.61
11	AB	83	DA	O3'-P	10.96	1.74	1.61
11	AB	3416	DA	O3'-P	10.96	1.74	1.61
11	AB	3593	DA	O3'-P	10.96	1.74	1.61
11	AB	6442	DA	O3'-P	10.96	1.74	1.61
11	AB	4015	DA	O3'-P	10.96	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4475	DA	O3'-P	10.96	1.74	1.61
11	AB	4989	DA	O3'-P	10.96	1.74	1.61
11	AB	5056	DA	O3'-P	10.96	1.74	1.61
11	AB	5089	DT	O3'-P	10.96	1.74	1.61
11	AB	5336	DA	O3'-P	10.96	1.74	1.61
11	AB	5649	DA	O3'-P	10.96	1.74	1.61
11	AB	5694	DG	O3'-P	10.96	1.74	1.61
11	AB	5730	DT	O3'-P	10.96	1.74	1.61
11	AB	5952	DT	O3'-P	10.96	1.74	1.61
11	AB	6213	DA	O3'-P	10.96	1.74	1.61
11	AB	6544	DA	O3'-P	10.96	1.74	1.61
11	AB	7008	DA	O3'-P	10.96	1.74	1.61
11	AB	7073	DC	O3'-P	10.96	1.74	1.61
11	AB	7124	DA	O3'-P	10.96	1.74	1.61
21	B8	17	DA	O3'-P	10.96	1.74	1.61
141	M8	23	DA	O3'-P	10.96	1.74	1.61
11	AB	7126	DA	O3'-P	10.96	1.74	1.61
23	BA	11	DA	O3'-P	10.96	1.74	1.61
24	BC	24	DA	O3'-P	10.96	1.74	1.61
38	D2	7	DA	O3'-P	10.96	1.74	1.61
51	E5	29	DA	O3'-P	10.96	1.74	1.61
59	F1	15	DA	O3'-P	10.96	1.74	1.61
66	F9	9	DA	O3'-P	10.96	1.74	1.61
106	J5	17	DA	O3'-P	10.96	1.74	1.61
238	X9	51	DA	O3'-P	10.96	1.74	1.61
158	O5	10	DA	O3'-P	10.96	1.74	1.61
158	O5	38	DA	O3'-P	10.96	1.74	1.61
176	Q2	5	DA	O3'-P	10.96	1.74	1.61
186	R3	9	DA	O3'-P	10.96	1.74	1.61
198	S8	20	DA	O3'-P	10.96	1.74	1.61
3	A3	7	DC	O3'-P	10.96	1.74	1.61
11	AB	6508	DT	O3'-P	10.96	1.74	1.61
150	N7	1	DT	O3'-P	10.96	1.74	1.61
161	O8	45	DA	O3'-P	10.96	1.74	1.61
205	T5	11	DA	O3'-P	10.96	1.74	1.61
1	A1	43	DA	O3'-P	10.96	1.74	1.61
11	AB	110	DA	O3'-P	10.96	1.74	1.61
11	AB	513	DA	O3'-P	10.96	1.74	1.61
11	AB	1880	DA	O3'-P	10.96	1.74	1.61
11	AB	2347	DT	O3'-P	10.96	1.74	1.61
11	AB	5648	DA	O3'-P	10.96	1.74	1.61
11	AB	5910	DA	O3'-P	10.96	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5931	DT	O3'-P	10.96	1.74	1.61
22	B9	32	DC	O3'-P	10.96	1.74	1.61
25	BD	15	DA	O3'-P	10.96	1.74	1.61
73	G5	18	DA	O3'-P	10.96	1.74	1.61
76	G8	10	DA	O3'-P	10.96	1.74	1.61
106	J5	18	DA	O3'-P	10.96	1.74	1.61
115	K2	34	DA	O3'-P	10.96	1.74	1.61
119	K7	15	DA	O3'-P	10.96	1.74	1.61
130	L7	47	DA	O3'-P	10.96	1.74	1.61
149	N6	27	DA	O3'-P	10.96	1.74	1.61
212	U2	25	DC	O3'-P	10.96	1.74	1.61
228	VC	18	DC	O3'-P	10.96	1.74	1.61
5	A5	13	DT	O3'-P	10.96	1.74	1.61
11	AB	156	DA	O3'-P	10.96	1.74	1.61
11	AB	268	DA	O3'-P	10.96	1.74	1.61
11	AB	459	DG	O3'-P	10.96	1.74	1.61
11	AB	551	DA	O3'-P	10.96	1.74	1.61
11	AB	3216	DA	O3'-P	10.96	1.74	1.61
11	AB	4318	DT	O3'-P	10.96	1.74	1.61
11	AB	4498	DA	O3'-P	10.96	1.74	1.61
11	AB	4749	DA	O3'-P	10.96	1.74	1.61
16	B3	14	DT	O3'-P	10.96	1.74	1.61
32	C8	20	DA	O3'-P	10.96	1.74	1.61
43	D8	20	DC	O3'-P	10.96	1.74	1.61
97	I7	17	DA	O3'-P	10.96	1.74	1.61
11	AB	3397	DT	O3'-P	10.95	1.74	1.61
11	AB	3788	DT	O3'-P	10.95	1.74	1.61
11	AB	5647	DA	O3'-P	10.95	1.74	1.61
11	AB	6252	DC	O3'-P	10.96	1.74	1.61
32	C8	6	DA	O3'-P	10.96	1.74	1.61
191	RA	12	DC	O3'-P	10.96	1.74	1.61
11	AB	6667	DT	O3'-P	10.95	1.74	1.61
11	AB	6673	DT	O3'-P	10.95	1.74	1.61
28	C3	10	DA	O3'-P	10.95	1.74	1.61
35	CC	23	DA	O3'-P	10.95	1.74	1.61
87	H8	7	DT	O3'-P	10.96	1.74	1.61
101	IC	8	DT	O3'-P	10.95	1.74	1.61
101	IC	14	DA	O3'-P	10.95	1.74	1.61
103	J1	5	DA	O3'-P	10.95	1.74	1.61
140	M7	24	DA	O3'-P	10.96	1.74	1.61
148	N5	19	DA	O3'-P	10.95	1.74	1.61
153	NA	10	DA	O3'-P	10.95	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
189	R8	37	DC	O3'-P	10.95	1.74	1.61
224	V7	5	DC	O3'-P	10.95	1.74	1.61
233	W8	9	DA	O3'-P	10.95	1.74	1.61
9	A9	15	DT	O3'-P	10.95	1.74	1.61
11	AB	753	DA	O3'-P	10.95	1.74	1.61
11	AB	985	DA	O3'-P	10.95	1.74	1.61
11	AB	3876	DA	O3'-P	10.95	1.74	1.61
11	AB	3981	DA	O3'-P	10.95	1.74	1.61
11	AB	5195	DA	O3'-P	10.95	1.74	1.61
11	AB	5974	DA	O3'-P	10.95	1.74	1.61
11	AB	6515	DA	O3'-P	10.95	1.74	1.61
145	MD	1	DA	O3'-P	10.95	1.74	1.61
11	AB	1127	DC	O3'-P	10.95	1.74	1.61
11	AB	1423	DA	O3'-P	10.95	1.74	1.61
11	AB	2948	DA	O3'-P	10.95	1.74	1.61
11	AB	3538	DA	O3'-P	10.95	1.74	1.61
11	AB	3883	DA	O3'-P	10.95	1.74	1.61
11	AB	4023	DA	O3'-P	10.95	1.74	1.61
11	AB	4030	DT	O3'-P	10.95	1.74	1.61
11	AB	6990	DT	O3'-P	10.95	1.74	1.61
11	AB	4050	DA	O3'-P	10.95	1.74	1.61
11	AB	4167	DC	O3'-P	10.95	1.74	1.61
11	AB	4283	DG	O3'-P	10.95	1.74	1.61
11	AB	5055	DA	O3'-P	10.95	1.74	1.61
11	AB	5250	DA	O3'-P	10.95	1.74	1.61
11	AB	5752	DT	O3'-P	10.95	1.74	1.61
14	B1	16	DA	O3'-P	10.95	1.74	1.61
18	B5	23	DA	O3'-P	10.95	1.74	1.61
29	C5	37	DT	O3'-P	10.95	1.74	1.61
41	D6	42	DA	O3'-P	10.95	1.74	1.61
50	E3	9	DA	O3'-P	10.95	1.74	1.61
75	G7	20	DA	O3'-P	10.95	1.74	1.61
113	JD	22	DT	O3'-P	10.95	1.74	1.61
98	I8	14	DA	O3'-P	10.95	1.74	1.61
129	L6	15	DA	O3'-P	10.95	1.74	1.61
138	M5	9	DT	O3'-P	10.95	1.74	1.61
146	N2	9	DA	O3'-P	10.95	1.74	1.61
161	O8	39	DA	O3'-P	10.95	1.74	1.61
150	N7	18	DC	O3'-P	10.95	1.74	1.61
176	Q2	18	DA	O3'-P	10.95	1.74	1.61
181	Q9	5	DA	O3'-P	10.95	1.74	1.61
185	R2	9	DA	O3'-P	10.95	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
189	R8	15	DC	O3'-P	10.95	1.74	1.61
201	SC	7	DA	O3'-P	10.95	1.74	1.61
201	SC	13	DA	O3'-P	10.95	1.74	1.61
210	TC	19	DA	O3'-P	10.95	1.74	1.61
11	AB	570	DC	O3'-P	10.95	1.74	1.61
97	I7	16	DA	O3'-P	10.95	1.74	1.61
7	A7	29	DT	O3'-P	10.95	1.74	1.61
11	AB	352	DA	O3'-P	10.95	1.74	1.61
11	AB	1350	DT	O3'-P	10.95	1.74	1.61
11	AB	1698	DT	O3'-P	10.95	1.74	1.61
11	AB	2320	DA	O3'-P	10.95	1.74	1.61
11	AB	2939	DC	O3'-P	10.95	1.74	1.61
16	B3	19	DT	O3'-P	10.95	1.74	1.61
129	L6	8	DT	O3'-P	10.95	1.74	1.61
11	AB	3828	DT	O3'-P	10.95	1.74	1.61
11	AB	5326	DA	O3'-P	10.95	1.74	1.61
55	E9	33	DT	O3'-P	10.95	1.74	1.61
58	ED	11	DC	O3'-P	10.95	1.74	1.61
84	H5	4	DT	O3'-P	10.95	1.74	1.61
94	I3	7	DT	O3'-P	10.95	1.74	1.61
113	JD	35	DA	O3'-P	10.95	1.74	1.61
114	K1	29	DA	O3'-P	10.95	1.74	1.61
135	LD	20	DA	O3'-P	10.95	1.74	1.61
145	MD	6	DA	O3'-P	10.95	1.74	1.61
148	N5	27	DA	O3'-P	10.95	1.74	1.61
162	O9	21	DA	O3'-P	10.95	1.74	1.61
208	T9	19	DT	O3'-P	10.95	1.74	1.61
211	TD	3	DA	O3'-P	10.95	1.74	1.61
206	T7	46	DT	O3'-P	10.95	1.74	1.61
238	X9	40	DT	O3'-P	10.95	1.74	1.61
11	AB	1261	DA	O3'-P	10.95	1.74	1.61
11	AB	1795	DT	O3'-P	10.95	1.74	1.61
164	OC	15	DC	O3'-P	10.95	1.74	1.61
11	AB	2305	DA	O3'-P	10.95	1.74	1.61
11	AB	3597	DA	O3'-P	10.95	1.74	1.61
11	AB	4895	DA	O3'-P	10.95	1.74	1.61
11	AB	5393	DT	O3'-P	10.95	1.74	1.61
22	B9	42	DC	O3'-P	10.95	1.74	1.61
24	BC	13	DA	O3'-P	10.95	1.74	1.61
38	D2	4	DA	O3'-P	10.95	1.74	1.61
89	HA	29	DA	O3'-P	10.95	1.74	1.61
98	I8	18	DA	O3'-P	10.95	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
106	J5	31	DC	O3'-P	10.95	1.74	1.61
125	L1	31	DT	O3'-P	10.95	1.74	1.61
159	O6	21	DA	O3'-P	10.95	1.74	1.61
230	W3	2	DT	O3'-P	10.95	1.74	1.61
11	AB	3343	DC	O3'-P	10.94	1.74	1.61
11	AB	4134	DC	O3'-P	10.94	1.74	1.61
11	AB	4905	DT	O3'-P	10.95	1.74	1.61
152	N9	32	DA	O3'-P	10.95	1.74	1.61
190	R9	2	DT	O3'-P	10.95	1.74	1.61
195	S3	16	DA	O3'-P	10.95	1.74	1.61
211	TD	31	DA	O3'-P	10.95	1.74	1.61
236	X5	12	DA	O3'-P	10.95	1.74	1.61
11	AB	6321	DT	O3'-P	10.94	1.74	1.61
11	AB	7218	DC	O3'-P	10.94	1.74	1.61
77	G9	11	DC	O3'-P	10.94	1.74	1.61
93	I2	33	DT	O3'-P	10.94	1.74	1.61
106	J5	35	DA	O3'-P	10.95	1.74	1.61
151	N8	5	DC	O3'-P	10.94	1.74	1.61
154	NC	18	DT	O3'-P	10.94	1.74	1.61
178	Q5	17	DA	O3'-P	10.94	1.74	1.61
179	Q7	23	DC	O3'-P	10.95	1.74	1.61
196	S5	10	DA	O3'-P	10.95	1.74	1.61
205	T5	12	DA	O3'-P	10.95	1.74	1.61
228	VC	15	DA	O3'-P	10.95	1.74	1.61
230	W3	6	DC	O3'-P	10.94	1.74	1.61
232	W7	9	DA	O3'-P	10.95	1.74	1.61
2	A2	18	DT	O3'-P	10.94	1.74	1.61
11	AB	68	DA	O3'-P	10.94	1.74	1.61
11	AB	552	DA	O3'-P	10.94	1.74	1.61
14	B1	24	DA	O3'-P	10.94	1.74	1.61
131	L8	20	DA	O3'-P	10.94	1.74	1.61
229	VD	13	DA	O3'-P	10.94	1.74	1.61
11	AB	1033	DA	O3'-P	10.94	1.74	1.61
11	AB	1919	DA	O3'-P	10.94	1.74	1.61
11	AB	2219	DA	O3'-P	10.94	1.74	1.61
11	AB	3082	DA	O3'-P	10.94	1.74	1.61
11	AB	3239	DA	O3'-P	10.94	1.74	1.61
11	AB	3372	DA	O3'-P	10.94	1.74	1.61
11	AB	6044	DA	O3'-P	10.94	1.74	1.61
21	B8	6	DT	O3'-P	10.94	1.74	1.61
21	B8	23	DT	O3'-P	10.94	1.74	1.61
43	D8	26	DC	O3'-P	10.94	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	DD	44	DC	O3'-P	10.94	1.74	1.61
82	H2	51	DA	O3'-P	10.94	1.74	1.61
95	I5	19	DA	O3'-P	10.94	1.74	1.61
102	ID	9	DT	O3'-P	10.94	1.74	1.61
135	LD	12	DC	O3'-P	10.94	1.74	1.61
148	N5	26	DA	O3'-P	10.94	1.74	1.61
165	OD	40	DA	O3'-P	10.94	1.74	1.61
189	R8	13	DT	O3'-P	10.94	1.74	1.61
195	S3	17	DA	O3'-P	10.94	1.74	1.61
205	T5	10	DA	O3'-P	10.94	1.74	1.61
6	A6	12	DA	O3'-P	10.94	1.74	1.61
11	AB	10	DT	O3'-P	10.94	1.74	1.61
11	AB	1002	DA	O3'-P	10.94	1.74	1.61
11	AB	2957	DT	O3'-P	10.94	1.74	1.61
11	AB	4911	DA	O3'-P	10.94	1.74	1.61
11	AB	5834	DT	O3'-P	10.94	1.74	1.61
190	R9	14	DA	O3'-P	10.94	1.74	1.61
6	A6	7	DA	O3'-P	10.94	1.74	1.61
11	AB	1296	DT	O3'-P	10.94	1.74	1.61
11	AB	1584	DT	O3'-P	10.94	1.74	1.61
11	AB	1741	DT	O3'-P	10.94	1.74	1.61
11	AB	1792	DA	O3'-P	10.94	1.74	1.61
11	AB	2163	DA	O3'-P	10.94	1.74	1.61
35	CC	20	DA	O3'-P	10.94	1.74	1.61
11	AB	2386	DA	O3'-P	10.94	1.74	1.61
11	AB	3073	DA	O3'-P	10.94	1.74	1.61
11	AB	3209	DT	O3'-P	10.94	1.74	1.61
11	AB	3548	DT	O3'-P	10.94	1.74	1.61
11	AB	3734	DA	O3'-P	10.94	1.74	1.61
11	AB	4564	DC	O3'-P	10.94	1.74	1.61
11	AB	4908	DC	O3'-P	10.94	1.74	1.61
11	AB	5668	DA	O3'-P	10.94	1.74	1.61
11	AB	6199	DA	O3'-P	10.94	1.74	1.61
11	AB	7106	DA	O3'-P	10.94	1.74	1.61
11	AB	7127	DA	O3'-P	10.94	1.74	1.61
90	HC	9	DC	O3'-P	10.94	1.74	1.61
131	L8	19	DA	O3'-P	10.94	1.74	1.61
11	AB	6009	DT	O3'-P	10.94	1.74	1.61
30	C6	34	DA	O3'-P	10.94	1.74	1.61
33	C9	23	DA	O3'-P	10.94	1.74	1.61
75	G7	27	DC	O3'-P	10.94	1.74	1.61
76	G8	9	DA	O3'-P	10.94	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
82	H2	41	DA	O3'-P	10.94	1.74	1.61
158	O5	9	DA	O3'-P	10.94	1.74	1.61
200	SA	14	DC	O3'-P	10.94	1.74	1.61
97	I7	18	DA	O3'-P	10.94	1.74	1.61
102	ID	15	DT	O3'-P	10.94	1.74	1.61
102	ID	28	DA	O3'-P	10.94	1.74	1.61
108	J7	40	DA	O3'-P	10.94	1.74	1.61
126	L2	6	DA	O3'-P	10.94	1.74	1.61
137	M3	2	DA	O3'-P	10.94	1.74	1.61
175	PD	12	DA	O3'-P	10.94	1.74	1.61
178	Q5	40	DA	O3'-P	10.94	1.74	1.61
181	Q9	35	DT	O3'-P	10.94	1.74	1.61
201	SC	14	DA	O3'-P	10.94	1.74	1.61
233	W8	10	DA	O3'-P	10.94	1.74	1.61
238	X9	15	DA	O3'-P	10.94	1.74	1.61
238	X9	29	DA	O3'-P	10.94	1.74	1.61
3	A3	8	DC	O3'-P	10.94	1.74	1.61
11	AB	131	DT	O3'-P	10.94	1.74	1.61
11	AB	353	DA	O3'-P	10.94	1.74	1.61
11	AB	1623	DC	O3'-P	10.94	1.74	1.61
11	AB	3031	DT	O3'-P	10.94	1.74	1.61
11	AB	5343	DA	O3'-P	10.94	1.74	1.61
11	AB	3103	DT	O3'-P	10.94	1.74	1.61
11	AB	4260	DC	O3'-P	10.94	1.74	1.61
11	AB	4509	DG	O3'-P	10.94	1.74	1.61
11	AB	5888	DA	O3'-P	10.94	1.74	1.61
11	AB	6390	DA	O3'-P	10.94	1.74	1.61
11	AB	6509	DT	O3'-P	10.94	1.74	1.61
11	AB	6859	DC	O3'-P	10.94	1.74	1.61
53	E7	23	DA	O3'-P	10.94	1.74	1.61
70	G1	11	DA	O3'-P	10.94	1.74	1.61
70	G1	18	DA	O3'-P	10.94	1.74	1.61
83	H3	12	DA	O3'-P	10.94	1.74	1.61
85	H6	9	DC	O3'-P	10.94	1.74	1.61
85	H6	33	DA	O3'-P	10.94	1.74	1.61
122	KA	22	DA	O3'-P	10.94	1.74	1.61
126	L2	37	DA	O3'-P	10.94	1.74	1.61
126	L2	49	DA	O3'-P	10.94	1.74	1.61
129	L6	12	DA	O3'-P	10.94	1.74	1.61
135	LD	6	DG	O3'-P	10.94	1.74	1.61
145	MD	7	DA	O3'-P	10.94	1.74	1.61
228	VC	10	DT	O3'-P	10.94	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
145	MD	29	DT	O3'-P	10.94	1.74	1.61
153	NA	19	DA	O3'-P	10.94	1.74	1.61
173	PA	33	DA	O3'-P	10.94	1.74	1.61
11	AB	235	DC	O3'-P	10.93	1.74	1.61
11	AB	318	DA	O3'-P	10.93	1.74	1.61
11	AB	376	DT	O3'-P	10.93	1.74	1.61
11	AB	640	DG	O3'-P	10.93	1.74	1.61
11	AB	2891	DT	O3'-P	10.93	1.74	1.61
137	M3	19	DA	O3'-P	10.93	1.74	1.61
228	VC	27	DT	O3'-P	10.93	1.74	1.61
11	AB	1239	DC	O3'-P	10.93	1.74	1.61
11	AB	1434	DT	O3'-P	10.93	1.74	1.61
71	G2	16	DA	O3'-P	10.93	1.74	1.61
11	AB	1635	DT	O3'-P	10.93	1.74	1.61
11	AB	2047	DT	O3'-P	10.93	1.74	1.61
11	AB	2396	DT	O3'-P	10.93	1.74	1.61
11	AB	2464	DA	O3'-P	10.93	1.74	1.61
11	AB	2548	DT	O3'-P	10.93	1.74	1.61
11	AB	3520	DG	O3'-P	10.93	1.74	1.61
11	AB	3585	DC	O3'-P	10.93	1.74	1.61
11	AB	3737	DA	O3'-P	10.93	1.74	1.61
11	AB	4916	DA	O3'-P	10.93	1.74	1.61
11	AB	5905	DT	O3'-P	10.93	1.74	1.61
11	AB	6463	DG	O3'-P	10.93	1.74	1.61
11	AB	6697	DA	O3'-P	10.93	1.74	1.61
11	AB	6921	DA	O3'-P	10.93	1.74	1.61
25	BD	14	DA	O3'-P	10.93	1.74	1.61
33	C9	24	DA	O3'-P	10.93	1.74	1.61
35	CC	24	DA	O3'-P	10.93	1.74	1.61
54	E8	24	DT	O3'-P	10.93	1.74	1.61
62	F5	26	DA	O3'-P	10.93	1.74	1.61
74	G6	17	DA	O3'-P	10.93	1.74	1.61
92	I1	11	DA	O3'-P	10.93	1.74	1.61
93	I2	6	DA	O3'-P	10.93	1.74	1.61
106	J5	23	DC	O3'-P	10.93	1.74	1.61
122	KA	23	DA	O3'-P	10.93	1.74	1.61
126	L2	56	DA	O3'-P	10.93	1.74	1.61
153	NA	11	DA	O3'-P	10.93	1.74	1.61
167	P3	11	DA	O3'-P	10.93	1.74	1.61
173	PA	9	DC	O3'-P	10.93	1.74	1.61
174	PC	15	DA	O3'-P	10.93	1.74	1.61
179	Q7	8	DA	O3'-P	10.93	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
214	U5	33	DA	O3'-P	10.93	1.74	1.61
195	S3	12	DT	O3'-P	10.93	1.74	1.61
11	AB	2074	DA	O3'-P	10.93	1.74	1.61
11	AB	2133	DT	O3'-P	10.93	1.74	1.61
11	AB	2721	DT	O3'-P	10.93	1.74	1.61
11	AB	2904	DT	O3'-P	10.93	1.74	1.61
11	AB	2946	DA	O3'-P	10.93	1.74	1.61
11	AB	5159	DC	O3'-P	10.93	1.74	1.61
11	AB	5595	DC	O3'-P	10.93	1.74	1.61
11	AB	6204	DT	O3'-P	10.93	1.74	1.61
11	AB	6980	DC	O3'-P	10.93	1.74	1.61
22	B9	5	DC	O3'-P	10.93	1.74	1.61
116	K3	20	DC	O3'-P	10.93	1.74	1.61
162	O9	16	DC	O3'-P	10.93	1.74	1.61
229	VD	11	DA	O3'-P	10.93	1.74	1.61
4	A4	29	DT	O3'-P	10.93	1.74	1.61
8	A8	21	DC	O3'-P	10.93	1.74	1.61
11	AB	754	DA	O3'-P	10.93	1.74	1.61
11	AB	1617	DA	O3'-P	10.93	1.74	1.61
11	AB	1760	DA	O3'-P	10.93	1.74	1.61
11	AB	3265	DA	O3'-P	10.93	1.74	1.61
224	V7	18	DT	O3'-P	10.93	1.74	1.61
11	AB	4128	DC	O3'-P	10.93	1.74	1.61
11	AB	5043	DA	O3'-P	10.93	1.74	1.61
11	AB	5318	DT	O3'-P	10.93	1.74	1.61
11	AB	6296	DA	O3'-P	10.93	1.74	1.61
20	B7	5	DT	O3'-P	10.93	1.74	1.61
41	D6	40	DT	O3'-P	10.93	1.74	1.61
98	I8	17	DA	O3'-P	10.93	1.74	1.61
106	J5	36	DA	O3'-P	10.93	1.74	1.61
129	L6	7	DT	O3'-P	10.93	1.74	1.61
161	O8	40	DA	O3'-P	10.93	1.74	1.61
178	Q5	6	DC	O3'-P	10.93	1.74	1.61
190	R9	26	DA	O3'-P	10.93	1.74	1.61
211	TD	5	DT	O3'-P	10.93	1.74	1.61
230	W3	43	DA	O3'-P	10.93	1.74	1.61
5	A5	31	DC	O3'-P	10.93	1.74	1.61
11	AB	276	DA	O3'-P	10.93	1.74	1.61
11	AB	297	DA	O3'-P	10.93	1.74	1.61
11	AB	1273	DT	O3'-P	10.93	1.74	1.61
11	AB	2575	DT	O3'-P	10.93	1.74	1.61
11	AB	2727	DA	O3'-P	10.93	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2924	DC	O3'-P	10.93	1.74	1.61
11	AB	4022	DA	O3'-P	10.93	1.74	1.61
11	AB	4298	DC	O3'-P	10.93	1.74	1.61
11	AB	4562	DA	O3'-P	10.93	1.74	1.61
11	AB	4954	DT	O3'-P	10.93	1.74	1.61
11	AB	6197	DT	O3'-P	10.93	1.74	1.61
11	AB	6380	DC	O3'-P	10.93	1.74	1.61
11	AB	6847	DC	O3'-P	10.93	1.74	1.61
29	C5	11	DA	O3'-P	10.93	1.74	1.61
29	C5	12	DA	O3'-P	10.93	1.74	1.61
45	DA	15	DC	O3'-P	10.93	1.74	1.61
53	E7	6	DT	O3'-P	10.93	1.74	1.61
85	H6	3	DA	O3'-P	10.93	1.74	1.61
95	I5	27	DA	O3'-P	10.93	1.74	1.61
104	J2	39	DA	O3'-P	10.93	1.74	1.61
114	K1	32	DA	O3'-P	10.93	1.74	1.61
132	L9	6	DA	O3'-P	10.93	1.74	1.61
147	N3	17	DC	O3'-P	10.93	1.74	1.61
150	N7	10	DC	O3'-P	10.93	1.74	1.61
157	O3	13	DA	O3'-P	10.93	1.74	1.61
177	Q3	23	DA	O3'-P	10.93	1.74	1.61
189	R8	33	DT	O3'-P	10.93	1.74	1.61
210	TC	20	DA	O3'-P	10.93	1.74	1.61
223	V5	28	DA	O3'-P	10.93	1.74	1.61
1	A1	2	DA	O3'-P	10.92	1.74	1.61
11	AB	1377	DT	O3'-P	10.92	1.74	1.61
11	AB	2385	DA	O3'-P	10.92	1.74	1.61
11	AB	2778	DA	O3'-P	10.92	1.74	1.61
11	AB	2947	DA	O3'-P	10.92	1.74	1.61
83	H3	31	DA	O3'-P	10.92	1.74	1.61
11	AB	747	DA	O3'-P	10.92	1.74	1.61
11	AB	756	DT	O3'-P	10.92	1.74	1.61
11	AB	1889	DA	O3'-P	10.92	1.74	1.61
11	AB	3049	DA	O3'-P	10.92	1.74	1.61
11	AB	3250	DA	O3'-P	10.92	1.74	1.61
11	AB	3273	DA	O3'-P	10.92	1.74	1.61
11	AB	3791	DT	O3'-P	10.92	1.74	1.61
11	AB	4575	DC	O3'-P	10.92	1.74	1.61
11	AB	4962	DA	O3'-P	10.92	1.74	1.61
11	AB	5591	DC	O3'-P	10.92	1.74	1.61
11	AB	5957	DA	O3'-P	10.92	1.74	1.61
19	B6	19	DA	O3'-P	10.92	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	C7	1	DA	O3'-P	10.92	1.74	1.61
11	AB	5697	DT	O3'-P	10.92	1.74	1.61
11	AB	6625	DA	O3'-P	10.92	1.74	1.61
11	AB	7164	DC	O3'-P	10.92	1.74	1.61
19	B6	5	DA	O3'-P	10.92	1.74	1.61
69	FD	19	DA	O3'-P	10.92	1.74	1.61
132	L9	9	DA	O3'-P	10.92	1.74	1.61
137	M3	3	DA	O3'-P	10.92	1.74	1.61
191	RA	10	DC	O3'-P	10.92	1.74	1.61
236	X5	13	DA	O3'-P	10.92	1.74	1.61
11	AB	6781	DA	O3'-P	10.92	1.74	1.61
11	AB	7125	DA	O3'-P	10.92	1.74	1.61
68	FC	1	DA	O3'-P	10.92	1.74	1.61
121	K9	28	DA	O3'-P	10.92	1.74	1.61
156	O2	15	DA	O3'-P	10.92	1.74	1.61
160	O7	6	DA	O3'-P	10.92	1.74	1.61
162	O9	14	DA	O3'-P	10.92	1.74	1.61
190	R9	1	DT	O3'-P	10.92	1.74	1.61
11	AB	119	DT	O3'-P	10.92	1.74	1.61
11	AB	135	DT	O3'-P	10.92	1.74	1.61
11	AB	957	DG	O3'-P	10.92	1.74	1.61
11	AB	1291	DA	O3'-P	10.92	1.74	1.61
11	AB	3256	DA	O3'-P	10.92	1.74	1.61
11	AB	4163	DC	O3'-P	10.92	1.74	1.61
11	AB	4181	DT	O3'-P	10.92	1.74	1.61
11	AB	5435	DT	O3'-P	10.92	1.74	1.61
50	E3	7	DT	O3'-P	10.92	1.74	1.61
56	EA	6	DT	O3'-P	10.92	1.74	1.61
11	AB	1803	DG	O3'-P	10.92	1.74	1.61
11	AB	2008	DA	O3'-P	10.92	1.74	1.61
11	AB	2274	DC	O3'-P	10.92	1.74	1.61
11	AB	4591	DC	O3'-P	10.92	1.74	1.61
11	AB	2735	DT	O3'-P	10.92	1.74	1.61
11	AB	5490	DC	O3'-P	10.92	1.74	1.61
37	D1	40	DA	O3'-P	10.92	1.74	1.61
82	H2	18	DC	O3'-P	10.92	1.74	1.61
222	V3	8	DT	O3'-P	10.92	1.74	1.61
11	AB	6112	DC	O3'-P	10.92	1.74	1.61
11	AB	6915	DC	O3'-P	10.92	1.74	1.61
40	D5	21	DT	O3'-P	10.92	1.74	1.61
69	FD	34	DA	O3'-P	10.92	1.74	1.61
84	H5	15	DT	O3'-P	10.92	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
146	N2	11	DT	O3'-P	10.92	1.74	1.61
165	OD	37	DA	O3'-P	10.92	1.74	1.61
106	J5	16	DA	O3'-P	10.92	1.74	1.61
158	O5	11	DA	O3'-P	10.92	1.74	1.61
161	O8	44	DA	O3'-P	10.92	1.74	1.61
167	P3	22	DC	O3'-P	10.92	1.74	1.61
176	Q2	16	DT	O3'-P	10.92	1.74	1.61
178	Q5	5	DG	O3'-P	10.92	1.74	1.61
190	R9	17	DA	O3'-P	10.92	1.74	1.61
219	UC	10	DT	O3'-P	10.92	1.74	1.61
227	VA	28	DT	O3'-P	10.92	1.74	1.61
229	VD	3	DC	O3'-P	10.92	1.74	1.61
230	W3	20	DA	O3'-P	10.92	1.74	1.61
11	AB	515	DC	O3'-P	10.92	1.74	1.61
11	AB	4791	DC	O3'-P	10.92	1.74	1.61
11	AB	7051	DC	O3'-P	10.92	1.74	1.61
11	AB	1205	DT	O3'-P	10.92	1.74	1.61
11	AB	1487	DT	O3'-P	10.92	1.74	1.61
11	AB	2469	DT	O3'-P	10.92	1.74	1.61
11	AB	5030	DT	O3'-P	10.92	1.74	1.61
11	AB	5335	DA	O3'-P	10.92	1.74	1.61
11	AB	5984	DC	O3'-P	10.92	1.74	1.61
18	B5	5	DC	O3'-P	10.92	1.74	1.61
26	C1	23	DT	O3'-P	10.92	1.74	1.61
110	J9	18	DG	O3'-P	10.92	1.74	1.61
158	O5	42	DA	O3'-P	10.92	1.74	1.61
205	T5	3	DC	O3'-P	10.92	1.74	1.61
219	UC	5	DC	O3'-P	10.92	1.74	1.61
227	VA	16	DC	O3'-P	10.92	1.74	1.61
238	X9	1	DC	O3'-P	10.92	1.74	1.61
6	A6	29	DC	O3'-P	10.91	1.74	1.61
11	AB	153	DA	O3'-P	10.91	1.74	1.61
11	AB	414	DG	O3'-P	10.91	1.74	1.61
11	AB	2164	DA	O3'-P	10.91	1.74	1.61
11	AB	3536	DT	O3'-P	10.91	1.74	1.61
11	AB	4914	DT	O3'-P	10.91	1.74	1.61
11	AB	6613	DC	O3'-P	10.91	1.74	1.61
100	IA	17	DA	O3'-P	10.91	1.74	1.61
108	J7	1	DA	O3'-P	10.91	1.74	1.61
11	AB	111	DA	O3'-P	10.91	1.74	1.61
11	AB	331	DT	O3'-P	10.91	1.74	1.61
11	AB	1664	DA	O3'-P	10.91	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1747	DT	O3'-P	10.91	1.74	1.61
11	AB	1900	DA	O3'-P	10.91	1.74	1.61
11	AB	2009	DA	O3'-P	10.91	1.74	1.61
11	AB	2280	DC	O3'-P	10.91	1.74	1.61
11	AB	2938	DC	O3'-P	10.91	1.74	1.61
125	L1	8	DA	O3'-P	10.91	1.74	1.61
167	P3	25	DA	O3'-P	10.91	1.74	1.61
11	AB	378	DC	O3'-P	10.91	1.74	1.61
11	AB	506	DT	O3'-P	10.91	1.74	1.61
11	AB	684	DC	O3'-P	10.91	1.74	1.61
11	AB	783	DT	O3'-P	10.91	1.74	1.61
11	AB	2324	DA	O3'-P	10.91	1.74	1.61
11	AB	3205	DA	O3'-P	10.91	1.74	1.61
11	AB	6710	DT	O3'-P	10.91	1.74	1.61
17	B4	12	DC	O3'-P	10.91	1.74	1.61
124	KD	17	DA	O3'-P	10.91	1.74	1.61
143	MA	46	DC	O3'-P	10.91	1.74	1.61
191	RA	21	DA	O3'-P	10.91	1.74	1.61
11	AB	1123	DC	O3'-P	10.91	1.74	1.61
11	AB	1211	DT	O3'-P	10.91	1.74	1.61
11	AB	1369	DC	O3'-P	10.91	1.74	1.61
11	AB	1779	DT	O3'-P	10.91	1.74	1.61
11	AB	2054	DC	O3'-P	10.91	1.74	1.61
11	AB	2436	DC	O3'-P	10.91	1.74	1.61
11	AB	3591	DA	O3'-P	10.91	1.74	1.61
11	AB	3747	DT	O3'-P	10.91	1.74	1.61
11	AB	6074	DC	O3'-P	10.91	1.74	1.61
32	C8	50	DT	O3'-P	10.91	1.74	1.61
49	E2	21	DT	O3'-P	10.91	1.74	1.61
81	H1	18	DT	O3'-P	10.91	1.74	1.61
87	H8	25	DA	O3'-P	10.91	1.74	1.61
94	I3	30	DA	O3'-P	10.91	1.74	1.61
104	J2	23	DA	O3'-P	10.91	1.74	1.61
126	L2	54	DA	O3'-P	10.91	1.74	1.61
228	VC	31	DC	O3'-P	10.91	1.74	1.61
232	W7	7	DA	O3'-P	10.91	1.74	1.61
11	AB	2459	DT	O3'-P	10.91	1.74	1.61
11	AB	3550	DT	O3'-P	10.91	1.74	1.61
11	AB	4241	DG	O3'-P	10.91	1.74	1.61
11	AB	4324	DC	O3'-P	10.91	1.74	1.61
30	C6	1	DA	O3'-P	10.91	1.74	1.61
11	AB	4893	DA	O3'-P	10.91	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5362	DT	O3'-P	10.91	1.74	1.61
11	AB	6225	DT	O3'-P	10.91	1.74	1.61
11	AB	6393	DT	O3'-P	10.91	1.74	1.61
14	B1	25	DA	O3'-P	10.91	1.74	1.61
26	C1	8	DA	O3'-P	10.91	1.74	1.61
37	D1	39	DA	O3'-P	10.91	1.74	1.61
59	F1	10	DC	O3'-P	10.91	1.74	1.61
62	F5	28	DT	O3'-P	10.91	1.74	1.61
107	J6	8	DA	O3'-P	10.91	1.74	1.61
163	OA	10	DC	O3'-P	10.91	1.74	1.61
172	P9	8	DA	O3'-P	10.91	1.74	1.61
181	Q9	9	DT	O3'-P	10.91	1.74	1.61
56	EA	13	DT	O3'-P	10.91	1.74	1.61
95	I5	1	DA	O3'-P	10.91	1.74	1.61
152	N9	13	DT	O3'-P	10.91	1.74	1.61
179	Q7	26	DA	O3'-P	10.91	1.74	1.61
166	P2	30	DC	O3'-P	10.91	1.74	1.61
172	P9	13	DT	O3'-P	10.91	1.74	1.61
180	Q8	12	DC	O3'-P	10.91	1.74	1.61
217	U9	13	DT	O3'-P	10.91	1.74	1.61
11	AB	106	DA	O3'-P	10.91	1.74	1.61
11	AB	154	DA	O3'-P	10.91	1.74	1.61
11	AB	1657	DC	O3'-P	10.91	1.74	1.61
11	AB	1744	DT	O3'-P	10.91	1.74	1.61
11	AB	2908	DA	O3'-P	10.91	1.74	1.61
11	AB	5354	DT	O3'-P	10.91	1.74	1.61
13	AD	35	DT	O3'-P	10.91	1.74	1.61
11	AB	1740	DT	O3'-P	10.91	1.74	1.61
11	AB	2779	DA	O3'-P	10.91	1.74	1.61
11	AB	3414	DG	O3'-P	10.91	1.74	1.61
11	AB	4705	DC	O3'-P	10.91	1.74	1.61
26	C1	9	DA	O3'-P	10.91	1.74	1.61
71	G2	18	DA	O3'-P	10.91	1.74	1.61
104	J2	7	DC	O3'-P	10.91	1.74	1.61
141	M8	7	DA	O3'-P	10.91	1.74	1.61
160	O7	29	DC	O3'-P	10.91	1.74	1.61
221	V2	9	DA	O3'-P	10.91	1.74	1.61
11	AB	4065	DC	O3'-P	10.91	1.74	1.61
11	AB	5526	DC	O3'-P	10.91	1.74	1.61
11	AB	5774	DT	O3'-P	10.91	1.74	1.61
11	AB	5894	DT	O3'-P	10.91	1.74	1.61
11	AB	6757	DT	O3'-P	10.91	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6974	DA	O3'-P	10.91	1.74	1.61
22	B9	15	DC	O3'-P	10.91	1.74	1.61
37	D1	4	DT	O3'-P	10.91	1.74	1.61
50	E3	11	DT	O3'-P	10.91	1.74	1.61
97	I7	12	DT	O3'-P	10.91	1.74	1.61
114	K1	18	DA	O3'-P	10.91	1.74	1.61
131	L8	22	DA	O3'-P	10.91	1.74	1.61
152	N9	7	DA	O3'-P	10.91	1.74	1.61
166	P2	31	DC	O3'-P	10.91	1.74	1.61
158	O5	45	DA	O3'-P	10.91	1.74	1.61
189	R8	25	DT	O3'-P	10.91	1.74	1.61
196	S5	18	DA	O3'-P	10.91	1.74	1.61
203	T2	18	DT	O3'-P	10.91	1.74	1.61
231	W5	21	DA	O3'-P	10.91	1.74	1.61
235	WD	17	DA	O3'-P	10.91	1.74	1.61
9	A9	3	DT	O3'-P	10.91	1.74	1.61
11	AB	46	DA	O3'-P	10.91	1.74	1.61
11	AB	773	DC	O3'-P	10.91	1.74	1.61
11	AB	1035	DA	O3'-P	10.91	1.74	1.61
11	AB	1203	DA	O3'-P	10.91	1.74	1.61
11	AB	7001	DT	O3'-P	10.91	1.74	1.61
69	FD	6	DA	O3'-P	10.91	1.74	1.61
11	AB	1608	DT	O3'-P	10.91	1.74	1.61
11	AB	2531	DT	O3'-P	10.91	1.74	1.61
11	AB	4148	DC	O3'-P	10.91	1.74	1.61
11	AB	4652	DA	O3'-P	10.91	1.74	1.61
71	G2	15	DA	O3'-P	10.91	1.74	1.61
11	AB	4555	DA	O3'-P	10.91	1.74	1.61
11	AB	4651	DA	O3'-P	10.91	1.74	1.61
11	AB	4898	DC	O3'-P	10.91	1.74	1.61
11	AB	6335	DC	O3'-P	10.91	1.74	1.61
11	AB	6441	DA	O3'-P	10.91	1.74	1.61
11	AB	6529	DA	O3'-P	10.91	1.74	1.61
21	B8	24	DT	O3'-P	10.91	1.74	1.61
45	DA	13	DG	O3'-P	10.91	1.74	1.61
60	F2	6	DC	O3'-P	10.91	1.74	1.61
67	FA	4	DA	O3'-P	10.91	1.74	1.61
69	FD	5	DA	O3'-P	10.91	1.74	1.61
107	J6	2	DC	O3'-P	10.91	1.74	1.61
190	R9	31	DA	O3'-P	10.91	1.74	1.61
198	S8	18	DC	O3'-P	10.91	1.74	1.61
113	JD	17	DA	O3'-P	10.91	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
202	SD	7	DA	O3'-P	10.91	1.74	1.61
238	X9	49	DG	O3'-P	10.91	1.74	1.61
2	A2	13	DC	O3'-P	10.90	1.74	1.61
11	AB	30	DT	O3'-P	10.90	1.74	1.61
11	AB	133	DT	O3'-P	10.90	1.74	1.61
11	AB	362	DT	O3'-P	10.90	1.74	1.61
11	AB	530	DT	O3'-P	10.90	1.74	1.61
11	AB	534	DC	O3'-P	10.90	1.74	1.61
11	AB	2466	DC	O3'-P	10.90	1.74	1.61
11	AB	2530	DT	O3'-P	10.90	1.74	1.61
11	AB	1177	DA	O3'-P	10.90	1.74	1.61
11	AB	1649	DT	O3'-P	10.90	1.74	1.61
11	AB	2542	DT	O3'-P	10.90	1.74	1.61
11	AB	2659	DT	O3'-P	10.90	1.74	1.61
11	AB	3489	DC	O3'-P	10.90	1.74	1.61
11	AB	4984	DT	O3'-P	10.90	1.74	1.61
11	AB	7155	DC	O3'-P	10.90	1.74	1.61
20	B7	18	DC	O3'-P	10.90	1.74	1.61
37	D1	33	DC	O3'-P	10.90	1.74	1.61
60	F2	9	DT	O3'-P	10.90	1.74	1.61
61	F3	25	DC	O3'-P	10.90	1.74	1.61
62	F5	16	DC	O3'-P	10.90	1.74	1.61
62	F5	29	DT	O3'-P	10.90	1.74	1.61
165	OD	36	DA	O3'-P	10.90	1.74	1.61
206	T7	18	DA	O3'-P	10.90	1.74	1.61
69	FD	18	DA	O3'-P	10.90	1.74	1.61
84	H5	24	DC	O3'-P	10.90	1.74	1.61
117	K5	30	DT	O3'-P	10.90	1.74	1.61
137	M3	18	DA	O3'-P	10.90	1.74	1.61
172	P9	21	DC	O3'-P	10.90	1.74	1.61
178	Q5	19	DT	O3'-P	10.90	1.74	1.61
214	U5	5	DC	O3'-P	10.90	1.74	1.61
217	U9	14	DT	O3'-P	10.90	1.74	1.61
1	A1	18	DT	O3'-P	10.90	1.74	1.61
9	A9	4	DT	O3'-P	10.90	1.74	1.61
11	AB	1355	DT	O3'-P	10.90	1.74	1.61
11	AB	2393	DT	O3'-P	10.90	1.74	1.61
11	AB	4190	DT	O3'-P	10.90	1.74	1.61
11	AB	7205	DC	O3'-P	10.90	1.74	1.61
56	EA	16	DT	O3'-P	10.90	1.74	1.61
128	L5	20	DC	O3'-P	10.90	1.74	1.61
160	O7	23	DT	O3'-P	10.90	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
178	Q5	18	DT	O3'-P	10.90	1.74	1.61
2	A2	16	DT	O3'-P	10.90	1.74	1.61
11	AB	27	DT	O3'-P	10.90	1.74	1.61
11	AB	134	DT	O3'-P	10.90	1.74	1.61
11	AB	799	DT	O3'-P	10.90	1.74	1.61
11	AB	1056	DA	O3'-P	10.90	1.74	1.61
11	AB	1332	DT	O3'-P	10.90	1.74	1.61
11	AB	3274	DA	O3'-P	10.90	1.74	1.61
11	AB	3362	DT	O3'-P	10.90	1.74	1.61
11	AB	3427	DT	O3'-P	10.90	1.74	1.61
11	AB	3885	DT	O3'-P	10.90	1.74	1.61
11	AB	4404	DT	O3'-P	10.90	1.74	1.61
11	AB	4523	DG	O3'-P	10.90	1.74	1.61
11	AB	4554	DA	O3'-P	10.90	1.74	1.61
11	AB	5181	DT	O3'-P	10.90	1.74	1.61
11	AB	6766	DT	O3'-P	10.90	1.74	1.61
11	AB	7158	DT	O3'-P	10.90	1.74	1.61
24	BC	25	DA	O3'-P	10.90	1.74	1.61
11	AB	5107	DA	O3'-P	10.90	1.74	1.61
11	AB	5677	DC	O3'-P	10.90	1.74	1.61
11	AB	6216	DC	O3'-P	10.90	1.74	1.61
11	AB	6362	DA	O3'-P	10.90	1.74	1.61
11	AB	6608	DA	O3'-P	10.90	1.74	1.61
11	AB	6679	DT	O3'-P	10.90	1.74	1.61
11	AB	6822	DC	O3'-P	10.90	1.74	1.61
11	AB	6882	DG	O3'-P	10.90	1.74	1.61
11	AB	7112	DA	O3'-P	10.90	1.74	1.61
23	BA	33	DG	O3'-P	10.90	1.74	1.61
24	BC	19	DA	O3'-P	10.90	1.74	1.61
41	D6	23	DA	O3'-P	10.90	1.74	1.61
41	D6	39	DT	O3'-P	10.90	1.74	1.61
139	M6	22	DC	O3'-P	10.90	1.74	1.61
145	MD	56	DA	O3'-P	10.90	1.74	1.61
169	P6	19	DC	O3'-P	10.90	1.74	1.61
62	F5	1	DA	O3'-P	10.90	1.74	1.61
64	F7	27	DT	O3'-P	10.90	1.74	1.61
77	G9	2	DT	O3'-P	10.90	1.74	1.61
80	GD	21	DG	O3'-P	10.90	1.74	1.61
100	IA	18	DA	O3'-P	10.90	1.74	1.61
108	J7	9	DA	O3'-P	10.90	1.74	1.61
140	M7	19	DA	O3'-P	10.90	1.74	1.61
158	O5	36	DC	O3'-P	10.90	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
172	P9	11	DT	O3'-P	10.90	1.74	1.61
173	PA	23	DT	O3'-P	10.90	1.74	1.61
195	S3	9	DA	O3'-P	10.90	1.74	1.61
202	SD	24	DA	O3'-P	10.90	1.74	1.61
206	T7	51	DA	O3'-P	10.90	1.74	1.61
214	U5	13	DT	O3'-P	10.90	1.74	1.61
11	AB	78	DC	O3'-P	10.90	1.74	1.61
11	AB	711	DC	O3'-P	10.90	1.74	1.61
11	AB	6522	DT	O3'-P	10.90	1.74	1.61
47	DD	41	DG	O3'-P	10.90	1.74	1.61
89	HA	32	DC	O3'-P	10.90	1.74	1.61
11	AB	1356	DT	O3'-P	10.90	1.74	1.61
11	AB	1622	DC	O3'-P	10.90	1.74	1.61
11	AB	1658	DC	O3'-P	10.90	1.74	1.61
11	AB	2475	DT	O3'-P	10.90	1.74	1.61
11	AB	3225	DA	O3'-P	10.90	1.74	1.61
11	AB	3492	DC	O3'-P	10.90	1.74	1.61
11	AB	3533	DT	O3'-P	10.90	1.74	1.61
11	AB	3975	DC	O3'-P	10.90	1.74	1.61
11	AB	4511	DC	O3'-P	10.90	1.74	1.61
11	AB	5265	DT	O3'-P	10.90	1.74	1.61
11	AB	5856	DT	O3'-P	10.90	1.74	1.61
11	AB	6333	DT	O3'-P	10.90	1.74	1.61
11	AB	7165	DC	O3'-P	10.90	1.74	1.61
17	B4	8	DA	O3'-P	10.90	1.74	1.61
64	F7	9	DA	O3'-P	10.90	1.74	1.61
79	GC	9	DA	O3'-P	10.90	1.74	1.61
112	JC	8	DA	O3'-P	10.90	1.74	1.61
127	L3	1	DC	O3'-P	10.90	1.74	1.61
145	MD	18	DA	O3'-P	10.90	1.74	1.61
181	Q9	8	DT	O3'-P	10.90	1.74	1.61
211	TD	18	DT	O3'-P	10.90	1.74	1.61
218	UA	1	DT	O3'-P	10.90	1.74	1.61
231	W5	26	DT	O3'-P	10.90	1.74	1.61
238	X9	47	DT	O3'-P	10.90	1.74	1.61
11	AB	3864	DA	O3'-P	10.90	1.74	1.61
11	AB	4191	DT	O3'-P	10.90	1.74	1.61
11	AB	4639	DT	O3'-P	10.90	1.74	1.61
11	AB	5664	DT	O3'-P	10.90	1.74	1.61
11	AB	5679	DT	O3'-P	10.90	1.74	1.61
11	AB	6603	DT	O3'-P	10.90	1.74	1.61
11	AB	6850	DT	O3'-P	10.90	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
109	J8	45	DA	O3'-P	10.90	1.74	1.61
126	L2	10	DT	O3'-P	10.90	1.74	1.61
142	M9	19	DA	O3'-P	10.90	1.74	1.61
145	MD	19	DA	O3'-P	10.90	1.74	1.61
11	AB	2547	DT	O3'-P	10.89	1.74	1.61
11	AB	2752	DT	O3'-P	10.89	1.74	1.61
11	AB	2773	DT	O3'-P	10.89	1.74	1.61
11	AB	5388	DG	O3'-P	10.89	1.74	1.61
26	C1	2	DC	O3'-P	10.89	1.74	1.61
184	QD	11	DT	O3'-P	10.89	1.74	1.61
11	AB	130	DT	O3'-P	10.89	1.74	1.61
11	AB	471	DC	O3'-P	10.89	1.74	1.61
11	AB	776	DT	O3'-P	10.89	1.74	1.61
11	AB	875	DT	O3'-P	10.89	1.74	1.61
11	AB	1085	DT	O3'-P	10.89	1.74	1.61
11	AB	1174	DC	O3'-P	10.89	1.74	1.61
11	AB	1351	DT	O3'-P	10.89	1.74	1.61
11	AB	1446	DT	O3'-P	10.89	1.74	1.61
11	AB	1451	DT	O3'-P	10.89	1.74	1.61
11	AB	1774	DT	O3'-P	10.89	1.74	1.61
11	AB	3140	DC	O3'-P	10.89	1.74	1.61
11	AB	3749	DC	O3'-P	10.89	1.74	1.61
11	AB	4046	DA	O3'-P	10.89	1.74	1.61
11	AB	5673	DT	O3'-P	10.89	1.74	1.61
11	AB	6554	DC	O3'-P	10.89	1.74	1.61
11	AB	6605	DC	O3'-P	10.89	1.74	1.61
11	AB	6993	DT	O3'-P	10.89	1.74	1.61
11	AB	7133	DT	O3'-P	10.89	1.74	1.61
41	D6	38	DT	O3'-P	10.89	1.74	1.61
52	E6	31	DC	O3'-P	10.89	1.74	1.61
55	E9	36	DT	O3'-P	10.89	1.74	1.61
66	F9	7	DG	O3'-P	10.89	1.74	1.61
83	H3	15	DC	O3'-P	10.89	1.74	1.61
108	J7	24	DT	O3'-P	10.89	1.74	1.61
122	KA	41	DC	O3'-P	10.89	1.74	1.61
136	M2	2	DT	O3'-P	10.89	1.74	1.61
139	M6	1	DC	O3'-P	10.89	1.74	1.61
148	N5	22	DA	O3'-P	10.89	1.74	1.61
152	N9	5	DT	O3'-P	10.89	1.74	1.61
171	P8	22	DT	O3'-P	10.89	1.74	1.61
196	S5	30	DT	O3'-P	10.89	1.74	1.61
4	A4	28	DT	O3'-P	10.89	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A5	12	DT	O3'-P	10.89	1.74	1.61
11	AB	3634	DA	O3'-P	10.89	1.74	1.61
11	AB	5337	DA	O3'-P	10.89	1.74	1.61
66	F9	10	DA	O3'-P	10.89	1.74	1.61
184	QD	25	DA	O3'-P	10.89	1.74	1.61
11	AB	1941	DC	O3'-P	10.89	1.74	1.61
11	AB	2016	DT	O3'-P	10.89	1.74	1.61
11	AB	3266	DA	O3'-P	10.89	1.74	1.61
11	AB	3819	DT	O3'-P	10.89	1.74	1.61
11	AB	4162	DC	O3'-P	10.89	1.74	1.61
11	AB	4561	DA	O3'-P	10.89	1.74	1.61
11	AB	4567	DC	O3'-P	10.89	1.74	1.61
11	AB	4779	DA	O3'-P	10.89	1.74	1.61
11	AB	5357	DA	O3'-P	10.89	1.74	1.61
11	AB	6377	DC	O3'-P	10.89	1.74	1.61
41	D6	24	DA	O3'-P	10.89	1.74	1.61
57	EC	6	DT	O3'-P	10.89	1.74	1.61
42	D7	20	DC	O3'-P	10.89	1.74	1.61
49	E2	22	DT	O3'-P	10.89	1.74	1.61
53	E7	18	DA	O3'-P	10.89	1.74	1.61
73	G5	12	DC	O3'-P	10.89	1.74	1.61
75	G7	8	DA	O3'-P	10.89	1.74	1.61
82	H2	52	DA	O3'-P	10.89	1.74	1.61
90	HC	13	DC	O3'-P	10.89	1.74	1.61
101	IC	10	DA	O3'-P	10.89	1.74	1.61
105	J3	25	DT	O3'-P	10.89	1.74	1.61
117	K5	28	DC	O3'-P	10.89	1.74	1.61
138	M5	36	DC	O3'-P	10.89	1.74	1.61
145	MD	8	DA	O3'-P	10.89	1.74	1.61
158	O5	24	DA	O3'-P	10.89	1.74	1.61
173	PA	26	DA	O3'-P	10.89	1.74	1.61
194	S2	26	DT	O3'-P	10.89	1.74	1.61
236	X5	15	DT	O3'-P	10.89	1.74	1.61
4	A4	13	DC	O3'-P	10.89	1.74	1.61
11	AB	165	DT	O3'-P	10.89	1.74	1.61
11	AB	1490	DT	O3'-P	10.89	1.74	1.61
11	AB	1344	DT	O3'-P	10.89	1.74	1.61
11	AB	1735	DA	O3'-P	10.89	1.74	1.61
11	AB	1775	DT	O3'-P	10.89	1.74	1.61
11	AB	2634	DT	O3'-P	10.89	1.74	1.61
11	AB	2775	DA	O3'-P	10.89	1.74	1.61
11	AB	2889	DT	O3'-P	10.89	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
134	LC	7	DC	O3'-P	10.89	1.74	1.61
161	O8	54	DC	O3'-P	10.89	1.74	1.61
11	AB	3222	DT	O3'-P	10.89	1.74	1.61
11	AB	3666	DT	O3'-P	10.89	1.74	1.61
11	AB	3820	DT	O3'-P	10.89	1.74	1.61
11	AB	3990	DC	O3'-P	10.89	1.74	1.61
11	AB	4818	DC	O3'-P	10.89	1.74	1.61
11	AB	4002	DC	O3'-P	10.89	1.74	1.61
11	AB	4596	DC	O3'-P	10.89	1.74	1.61
11	AB	4866	DC	O3'-P	10.89	1.74	1.61
11	AB	4974	DC	O3'-P	10.89	1.74	1.61
11	AB	5446	DC	O3'-P	10.89	1.74	1.61
11	AB	6058	DC	O3'-P	10.89	1.74	1.61
11	AB	6461	DT	O3'-P	10.89	1.74	1.61
130	L7	17	DT	O3'-P	10.89	1.74	1.61
11	AB	5767	DT	O3'-P	10.89	1.74	1.61
28	C3	6	DC	O3'-P	10.89	1.74	1.61
83	H3	1	DC	O3'-P	10.89	1.74	1.61
94	I3	48	DC	O3'-P	10.89	1.74	1.61
103	J1	27	DT	O3'-P	10.89	1.74	1.61
111	JA	17	DC	O3'-P	10.89	1.74	1.61
143	MA	12	DC	O3'-P	10.89	1.74	1.61
131	L8	7	DC	O3'-P	10.89	1.74	1.61
138	M5	11	DT	O3'-P	10.89	1.74	1.61
155	ND	11	DT	O3'-P	10.89	1.74	1.61
161	O8	10	DA	O3'-P	10.89	1.74	1.61
167	P3	32	DC	O3'-P	10.89	1.74	1.61
216	U8	20	DC	O3'-P	10.89	1.74	1.61
235	WD	20	DT	O3'-P	10.89	1.74	1.61
222	V3	6	DT	O3'-P	10.89	1.74	1.61
226	V9	30	DC	O3'-P	10.89	1.74	1.61
1	A1	32	DA	O3'-P	10.88	1.74	1.61
11	AB	938	DG	O3'-P	10.89	1.74	1.61
11	AB	2720	DT	O3'-P	10.89	1.74	1.61
11	AB	4143	DC	O3'-P	10.89	1.74	1.61
2	A2	28	DT	O3'-P	10.88	1.74	1.61
4	A4	27	DT	O3'-P	10.88	1.74	1.61
11	AB	265	DG	O3'-P	10.88	1.74	1.61
11	AB	626	DC	O3'-P	10.88	1.74	1.61
11	AB	675	DG	O3'-P	10.88	1.74	1.61
11	AB	1107	DT	O3'-P	10.88	1.74	1.61
11	AB	1212	DT	O3'-P	10.88	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1279	DT	O3'-P	10.89	1.74	1.61
11	AB	1644	DT	O3'-P	10.89	1.74	1.61
11	AB	2536	DT	O3'-P	10.89	1.74	1.61
11	AB	2784	DA	O3'-P	10.89	1.74	1.61
11	AB	2930	DT	O3'-P	10.89	1.74	1.61
11	AB	4165	DT	O3'-P	10.88	1.74	1.61
11	AB	5025	DC	O3'-P	10.89	1.74	1.61
11	AB	4220	DC	O3'-P	10.88	1.74	1.61
11	AB	5328	DT	O3'-P	10.88	1.74	1.61
11	AB	5671	DT	O3'-P	10.88	1.74	1.61
11	AB	6374	DT	O3'-P	10.89	1.74	1.61
18	B5	4	DC	O3'-P	10.89	1.74	1.61
21	B8	4	DT	O3'-P	10.89	1.74	1.61
24	BC	20	DA	O3'-P	10.89	1.74	1.61
38	D2	15	DC	O3'-P	10.89	1.74	1.61
95	I5	20	DA	O3'-P	10.89	1.74	1.61
171	P8	23	DT	O3'-P	10.89	1.74	1.61
11	AB	5887	DA	O3'-P	10.88	1.74	1.61
11	AB	6389	DA	O3'-P	10.88	1.74	1.61
11	AB	6421	DG	O3'-P	10.88	1.74	1.61
11	AB	7146	DC	O3'-P	10.89	1.74	1.61
187	R5	41	DC	O3'-P	10.89	1.74	1.61
11	AB	6530	DA	O3'-P	10.88	1.74	1.61
11	AB	6677	DA	O3'-P	10.88	1.74	1.61
11	AB	7142	DA	O3'-P	10.88	1.74	1.61
11	AB	7172	DC	O3'-P	10.88	1.74	1.61
24	BC	9	DC	O3'-P	10.88	1.74	1.61
32	C8	49	DT	O3'-P	10.88	1.74	1.61
33	C9	10	DA	O3'-P	10.88	1.74	1.61
35	CC	10	DC	O3'-P	10.89	1.74	1.61
41	D6	44	DC	O3'-P	10.89	1.74	1.61
230	W3	16	DC	O3'-P	10.89	1.74	1.61
39	D3	8	DC	O3'-P	10.88	1.74	1.61
43	D8	6	DA	O3'-P	10.88	1.74	1.61
54	E8	34	DC	O3'-P	10.89	1.74	1.61
89	HA	12	DG	O3'-P	10.89	1.74	1.61
77	G9	17	DG	O3'-P	10.88	1.74	1.61
122	KA	37	DT	O3'-P	10.88	1.74	1.61
126	L2	12	DA	O3'-P	10.88	1.74	1.61
138	M5	10	DT	O3'-P	10.88	1.74	1.61
152	N9	9	DT	O3'-P	10.89	1.74	1.61
161	O8	48	DT	O3'-P	10.88	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
222	V3	7	DT	O3'-P	10.89	1.74	1.61
187	R5	2	DA	O3'-P	10.88	1.74	1.61
188	R7	28	DG	O3'-P	10.88	1.74	1.61
204	T3	11	DT	O3'-P	10.88	1.74	1.61
2	A2	30	DA	O3'-P	10.88	1.74	1.61
11	AB	202	DC	O3'-P	10.88	1.74	1.61
11	AB	290	DT	O3'-P	10.88	1.74	1.61
11	AB	564	DC	O3'-P	10.88	1.74	1.61
11	AB	1111	DT	O3'-P	10.88	1.74	1.61
11	AB	2225	DT	O3'-P	10.88	1.74	1.61
11	AB	5390	DG	O3'-P	10.88	1.74	1.61
11	AB	5620	DC	O3'-P	10.88	1.74	1.61
11	AB	5849	DC	O3'-P	10.88	1.74	1.61
200	SA	13	DC	O3'-P	10.88	1.74	1.61
11	AB	144	DT	O3'-P	10.88	1.74	1.61
11	AB	1437	DT	O3'-P	10.88	1.74	1.61
11	AB	1444	DT	O3'-P	10.88	1.74	1.61
11	AB	2767	DT	O3'-P	10.88	1.74	1.61
11	AB	3881	DT	O3'-P	10.88	1.74	1.61
11	AB	2570	DT	O3'-P	10.88	1.74	1.61
11	AB	2583	DC	O3'-P	10.88	1.74	1.61
11	AB	2624	DT	O3'-P	10.88	1.74	1.61
11	AB	4366	DT	O3'-P	10.88	1.74	1.61
20	B7	10	DC	O3'-P	10.88	1.74	1.61
195	S3	19	DT	O3'-P	10.88	1.74	1.61
11	AB	2641	DT	O3'-P	10.88	1.74	1.61
11	AB	4259	DC	O3'-P	10.88	1.74	1.61
11	AB	5184	DT	O3'-P	10.88	1.74	1.61
11	AB	6046	DT	O3'-P	10.88	1.74	1.61
11	AB	6549	DT	O3'-P	10.88	1.74	1.61
219	UC	11	DT	O3'-P	10.88	1.74	1.61
11	AB	5854	DT	O3'-P	10.88	1.74	1.61
11	AB	6983	DT	O3'-P	10.88	1.74	1.61
15	B2	21	DC	O3'-P	10.88	1.74	1.61
35	CC	19	DT	O3'-P	10.88	1.74	1.61
39	D3	33	DC	O3'-P	10.88	1.74	1.61
49	E2	38	DC	O3'-P	10.88	1.74	1.61
98	I8	12	DC	O3'-P	10.88	1.74	1.61
104	J2	29	DC	O3'-P	10.88	1.74	1.61
107	J6	9	DA	O3'-P	10.88	1.74	1.61
108	J7	13	DT	O3'-P	10.88	1.74	1.61
125	L1	53	DG	O3'-P	10.88	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
108	J7	38	DA	O3'-P	10.88	1.74	1.61
118	K6	10	DC	O3'-P	10.88	1.74	1.61
138	M5	34	DA	O3'-P	10.88	1.74	1.61
150	N7	14	DG	O3'-P	10.88	1.74	1.61
161	O8	24	DT	O3'-P	10.88	1.74	1.61
171	P8	11	DC	O3'-P	10.88	1.74	1.61
192	RC	34	DC	O3'-P	10.88	1.74	1.61
211	TD	6	DT	O3'-P	10.88	1.74	1.61
218	UA	2	DT	O3'-P	10.88	1.74	1.61
11	AB	155	DA	O3'-P	10.88	1.74	1.61
11	AB	1345	DT	O3'-P	10.88	1.74	1.61
11	AB	2131	DT	O3'-P	10.88	1.74	1.61
11	AB	2221	DT	O3'-P	10.88	1.74	1.61
11	AB	3918	DC	O3'-P	10.88	1.74	1.61
11	AB	3963	DC	O3'-P	10.88	1.74	1.61
11	AB	4091	DG	O3'-P	10.88	1.74	1.61
11	AB	4345	DT	O3'-P	10.88	1.74	1.61
11	AB	4698	DT	O3'-P	10.88	1.74	1.61
11	AB	6989	DT	O3'-P	10.88	1.74	1.61
76	G8	19	DG	O3'-P	10.88	1.74	1.61
96	I6	12	DT	O3'-P	10.88	1.74	1.61
101	IC	22	DC	O3'-P	10.88	1.74	1.61
151	N8	13	DT	O3'-P	10.88	1.74	1.61
201	SC	3	DT	O3'-P	10.88	1.74	1.61
11	AB	277	DA	O3'-P	10.88	1.74	1.61
11	AB	384	DG	O3'-P	10.88	1.74	1.61
11	AB	685	DC	O3'-P	10.88	1.74	1.61
11	AB	1290	DA	O3'-P	10.88	1.74	1.61
11	AB	1753	DT	O3'-P	10.88	1.74	1.61
11	AB	2049	DA	O3'-P	10.88	1.74	1.61
11	AB	2158	DT	O3'-P	10.88	1.74	1.61
11	AB	3448	DG	O3'-P	10.88	1.74	1.61
11	AB	6292	DT	O3'-P	10.88	1.74	1.61
11	AB	6475	DC	O3'-P	10.88	1.74	1.61
11	AB	7163	DA	O3'-P	10.88	1.74	1.61
20	B7	17	DC	O3'-P	10.88	1.74	1.61
30	C6	43	DG	O3'-P	10.88	1.74	1.61
41	D6	11	DA	O3'-P	10.88	1.74	1.61
60	F2	1	DC	O3'-P	10.88	1.74	1.61
63	F6	5	DG	O3'-P	10.88	1.74	1.61
74	G6	12	DC	O3'-P	10.88	1.74	1.61
82	H2	39	DC	O3'-P	10.88	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
82	H2	45	DT	O3'-P	10.88	1.74	1.61
84	H5	34	DC	O3'-P	10.88	1.74	1.61
132	L9	4	DA	O3'-P	10.88	1.74	1.61
136	M2	11	DT	O3'-P	10.88	1.74	1.61
206	T7	23	DG	O3'-P	10.88	1.74	1.61
143	MA	31	DC	O3'-P	10.88	1.74	1.61
149	N6	43	DA	O3'-P	10.88	1.74	1.61
156	O2	39	DG	O3'-P	10.88	1.74	1.61
167	P3	21	DC	O3'-P	10.88	1.74	1.61
193	RD	17	DT	O3'-P	10.88	1.74	1.61
218	UA	3	DT	O3'-P	10.88	1.74	1.61
215	U7	18	DC	O3'-P	10.88	1.74	1.61
227	VA	14	DA	O3'-P	10.88	1.74	1.61
238	X9	35	DC	O3'-P	10.88	1.74	1.61
11	AB	96	DA	O3'-P	10.88	1.74	1.61
135	LD	19	DT	O3'-P	10.88	1.74	1.61
11	AB	795	DT	O3'-P	10.87	1.74	1.61
11	AB	802	DT	O3'-P	10.88	1.74	1.61
117	K5	47	DC	O3'-P	10.88	1.74	1.61
11	AB	949	DC	O3'-P	10.87	1.74	1.61
11	AB	1018	DC	O3'-P	10.87	1.74	1.61
11	AB	1462	DT	O3'-P	10.87	1.74	1.61
11	AB	1950	DC	O3'-P	10.87	1.74	1.61
11	AB	3052	DC	O3'-P	10.88	1.74	1.61
11	AB	4304	DC	O3'-P	10.88	1.74	1.61
11	AB	4729	DC	O3'-P	10.88	1.74	1.61
11	AB	5085	DC	O3'-P	10.88	1.74	1.61
11	AB	5794	DC	O3'-P	10.88	1.74	1.61
11	AB	6834	DC	O3'-P	10.87	1.74	1.61
46	DC	17	DC	O3'-P	10.88	1.74	1.61
60	F2	13	DC	O3'-P	10.88	1.74	1.61
73	G5	2	DC	O3'-P	10.87	1.74	1.61
84	H5	23	DC	O3'-P	10.88	1.74	1.61
113	JD	15	DT	O3'-P	10.87	1.74	1.61
115	K2	31	DT	O3'-P	10.87	1.74	1.61
118	K6	20	DT	O3'-P	10.88	1.74	1.61
125	L1	48	DG	O3'-P	10.88	1.74	1.61
141	M8	17	DC	O3'-P	10.88	1.74	1.61
161	O8	16	DC	O3'-P	10.88	1.74	1.61
165	OD	27	DC	O3'-P	10.88	1.74	1.61
168	P5	1	DC	O3'-P	10.87	1.74	1.61
180	Q8	21	DC	O3'-P	10.88	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
181	Q9	10	DT	O3'-P	10.87	1.74	1.61
228	VC	39	DG	O3'-P	10.87	1.74	1.61
1	A1	20	DC	O3'-P	10.87	1.74	1.61
11	AB	2413	DC	O3'-P	10.87	1.74	1.61
11	AB	4142	DC	O3'-P	10.87	1.74	1.61
11	AB	4477	DC	O3'-P	10.87	1.74	1.61
11	AB	4897	DC	O3'-P	10.87	1.74	1.61
11	AB	5867	DC	O3'-P	10.87	1.74	1.61
100	IA	16	DA	O3'-P	10.87	1.74	1.61
209	TA	21	DC	O3'-P	10.87	1.74	1.61
4	A4	12	DC	O3'-P	10.87	1.74	1.61
9	A9	14	DT	O3'-P	10.87	1.74	1.61
11	AB	366	DG	O3'-P	10.87	1.74	1.61
11	AB	537	DC	O3'-P	10.87	1.74	1.61
11	AB	1137	DG	O3'-P	10.87	1.74	1.61
11	AB	1651	DA	O3'-P	10.87	1.74	1.61
11	AB	5904	DT	O3'-P	10.87	1.74	1.61
54	E8	11	DT	O3'-P	10.87	1.74	1.61
127	L3	9	DT	O3'-P	10.87	1.74	1.61
11	AB	1258	DT	O3'-P	10.87	1.74	1.61
11	AB	1877	DT	O3'-P	10.87	1.74	1.61
11	AB	1993	DC	O3'-P	10.87	1.74	1.61
11	AB	2591	DG	O3'-P	10.87	1.74	1.61
11	AB	3812	DC	O3'-P	10.87	1.74	1.61
11	AB	3808	DA	O3'-P	10.87	1.74	1.61
11	AB	3945	DG	O3'-P	10.87	1.74	1.61
11	AB	3976	DC	O3'-P	10.87	1.74	1.61
11	AB	5746	DT	O3'-P	10.87	1.74	1.61
11	AB	6771	DT	O3'-P	10.87	1.74	1.61
24	BC	30	DC	O3'-P	10.87	1.74	1.61
151	N8	16	DC	O3'-P	10.87	1.74	1.61
11	AB	4001	DC	O3'-P	10.87	1.74	1.61
11	AB	4463	DC	O3'-P	10.87	1.74	1.61
11	AB	4934	DC	O3'-P	10.87	1.74	1.61
11	AB	5154	DC	O3'-P	10.87	1.74	1.61
11	AB	5379	DC	O3'-P	10.87	1.74	1.61
100	IA	8	DC	O3'-P	10.87	1.74	1.61
11	AB	5271	DT	O3'-P	10.87	1.74	1.61
11	AB	5855	DT	O3'-P	10.87	1.74	1.61
11	AB	5897	DT	O3'-P	10.87	1.74	1.61
11	AB	6281	DT	O3'-P	10.87	1.74	1.61
11	AB	6295	DA	O3'-P	10.87	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	7117	DC	O3'-P	10.87	1.74	1.61
11	AB	7228	DC	O3'-P	10.87	1.74	1.61
37	D1	25	DC	O3'-P	10.87	1.74	1.61
52	E6	17	DC	O3'-P	10.87	1.74	1.61
85	H6	10	DC	O3'-P	10.87	1.74	1.61
137	M3	24	DC	O3'-P	10.87	1.74	1.61
91	HD	9	DT	O3'-P	10.87	1.74	1.61
96	I6	17	DC	O3'-P	10.87	1.74	1.61
97	I7	21	DC	O3'-P	10.87	1.74	1.61
103	J1	2	DC	O3'-P	10.87	1.74	1.61
126	L2	28	DC	O3'-P	10.87	1.74	1.61
105	J3	30	DC	O3'-P	10.87	1.74	1.61
129	L6	9	DT	O3'-P	10.87	1.74	1.61
134	LC	21	DC	O3'-P	10.87	1.74	1.61
137	M3	29	DC	O3'-P	10.87	1.74	1.61
157	O3	6	DC	O3'-P	10.87	1.74	1.61
173	PA	13	DA	O3'-P	10.87	1.74	1.61
192	RC	35	DC	O3'-P	10.87	1.74	1.61
235	WD	19	DT	O3'-P	10.87	1.74	1.61
236	X5	17	DC	O3'-P	10.87	1.74	1.61
11	AB	2474	DT	O3'-P	10.87	1.74	1.61
94	I3	27	DC	O3'-P	10.87	1.74	1.61
2	A2	4	DC	O3'-P	10.87	1.74	1.61
4	A4	26	DT	O3'-P	10.87	1.74	1.61
11	AB	408	DG	O3'-P	10.87	1.74	1.61
11	AB	429	DG	O3'-P	10.87	1.74	1.61
11	AB	770	DT	O3'-P	10.87	1.74	1.61
11	AB	1172	DT	O3'-P	10.87	1.74	1.61
11	AB	1471	DT	O3'-P	10.87	1.74	1.61
11	AB	2229	DC	O3'-P	10.87	1.74	1.61
11	AB	4200	DA	O3'-P	10.87	1.74	1.61
11	AB	6467	DT	O3'-P	10.87	1.74	1.61
11	AB	7100	DC	O3'-P	10.87	1.74	1.61
84	H5	22	DC	O3'-P	10.87	1.74	1.61
6	A6	24	DT	O3'-P	10.87	1.74	1.61
9	A9	1	DT	O3'-P	10.87	1.74	1.61
11	AB	120	DT	O3'-P	10.87	1.74	1.61
11	AB	281	DT	O3'-P	10.87	1.74	1.61
11	AB	489	DC	O3'-P	10.87	1.74	1.61
11	AB	591	DC	O3'-P	10.87	1.74	1.61
11	AB	794	DT	O3'-P	10.87	1.74	1.61
11	AB	1271	DT	O3'-P	10.87	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1454	DT	O3'-P	10.87	1.74	1.61
11	AB	1476	DT	O3'-P	10.87	1.74	1.61
11	AB	1594	DT	O3'-P	10.87	1.74	1.61
11	AB	2874	DT	O3'-P	10.87	1.74	1.61
11	AB	1791	DA	O3'-P	10.87	1.74	1.61
11	AB	2579	DC	O3'-P	10.87	1.74	1.61
11	AB	3261	DT	O3'-P	10.87	1.74	1.61
127	L3	6	DT	O3'-P	10.87	1.74	1.61
11	AB	3410	DT	O3'-P	10.87	1.74	1.61
11	AB	3497	DC	O3'-P	10.87	1.74	1.61
11	AB	3803	DC	O3'-P	10.87	1.74	1.61
11	AB	4195	DC	O3'-P	10.87	1.74	1.61
11	AB	4231	DC	O3'-P	10.87	1.74	1.61
11	AB	4444	DC	O3'-P	10.87	1.74	1.61
11	AB	4556	DA	O3'-P	10.87	1.74	1.61
11	AB	4640	DT	O3'-P	10.87	1.74	1.61
11	AB	4839	DC	O3'-P	10.87	1.74	1.61
11	AB	4969	DC	O3'-P	10.87	1.74	1.61
11	AB	5102	DC	O3'-P	10.87	1.74	1.61
11	AB	5103	DC	O3'-P	10.87	1.74	1.61
11	AB	5108	DA	O3'-P	10.87	1.74	1.61
11	AB	5282	DC	O3'-P	10.87	1.74	1.61
11	AB	5500	DT	O3'-P	10.87	1.74	1.61
11	AB	5966	DT	O3'-P	10.87	1.74	1.61
27	C2	11	DC	O3'-P	10.87	1.74	1.61
36	CD	11	DC	O3'-P	10.87	1.74	1.61
184	QD	20	DC	O3'-P	10.87	1.74	1.61
219	UC	24	DC	O3'-P	10.87	1.74	1.61
69	FD	41	DA	O3'-P	10.87	1.74	1.61
85	H6	17	DG	O3'-P	10.87	1.74	1.61
96	I6	6	DT	O3'-P	10.87	1.74	1.61
123	KC	27	DT	O3'-P	10.87	1.74	1.61
126	L2	39	DC	O3'-P	10.87	1.74	1.61
143	MA	38	DC	O3'-P	10.87	1.74	1.61
188	R7	30	DC	O3'-P	10.87	1.74	1.61
238	X9	46	DT	O3'-P	10.87	1.74	1.61
194	S2	8	DT	O3'-P	10.87	1.74	1.61
211	TD	1	DT	O3'-P	10.87	1.74	1.61
229	VD	16	DA	O3'-P	10.87	1.74	1.61
235	WD	14	DA	O3'-P	10.87	1.74	1.61
11	AB	803	DT	O3'-P	10.87	1.74	1.61
11	AB	3244	DT	O3'-P	10.87	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	AA	18	DC	O3'-P	10.86	1.74	1.61
11	AB	951	DG	O3'-P	10.87	1.74	1.61
11	AB	1164	DG	O3'-P	10.87	1.74	1.61
11	AB	1448	DC	O3'-P	10.87	1.74	1.61
11	AB	1457	DT	O3'-P	10.87	1.74	1.61
11	AB	1780	DT	O3'-P	10.87	1.74	1.61
11	AB	2053	DC	O3'-P	10.87	1.74	1.61
11	AB	2898	DT	O3'-P	10.87	1.74	1.61
11	AB	4597	DC	O3'-P	10.87	1.74	1.61
11	AB	6450	DT	O3'-P	10.87	1.74	1.61
39	D3	15	DA	O3'-P	10.87	1.74	1.61
149	N6	11	DC	O3'-P	10.87	1.74	1.61
11	AB	2626	DT	O3'-P	10.86	1.74	1.61
11	AB	2786	DT	O3'-P	10.86	1.74	1.61
11	AB	3725	DT	O3'-P	10.86	1.74	1.61
11	AB	4986	DC	O3'-P	10.87	1.74	1.61
11	AB	5269	DT	O3'-P	10.86	1.74	1.61
11	AB	6020	DT	O3'-P	10.87	1.74	1.61
11	AB	6191	DT	O3'-P	10.87	1.74	1.61
11	AB	6606	DC	O3'-P	10.87	1.74	1.61
11	AB	6694	DC	O3'-P	10.87	1.74	1.61
11	AB	7099	DC	O3'-P	10.87	1.74	1.61
11	AB	7138	DC	O3'-P	10.87	1.74	1.61
11	AB	7227	DC	O3'-P	10.87	1.74	1.61
19	B6	2	DA	O3'-P	10.86	1.74	1.61
55	E9	19	DC	O3'-P	10.87	1.74	1.61
97	I7	24	DG	O3'-P	10.87	1.74	1.61
136	M2	10	DT	O3'-P	10.87	1.74	1.61
141	M8	11	DT	O3'-P	10.87	1.74	1.61
147	N3	23	DC	O3'-P	10.87	1.74	1.61
172	P9	25	DC	O3'-P	10.87	1.74	1.61
125	L1	36	DC	O3'-P	10.86	1.74	1.61
126	L2	16	DG	O3'-P	10.86	1.74	1.61
145	MD	41	DC	O3'-P	10.86	1.74	1.61
150	N7	9	DC	O3'-P	10.87	1.74	1.61
172	P9	12	DT	O3'-P	10.86	1.74	1.61
173	PA	28	DC	O3'-P	10.87	1.74	1.61
187	R5	11	DC	O3'-P	10.86	1.74	1.61
205	T5	23	DA	O3'-P	10.87	1.74	1.61
237	X7	12	DC	O3'-P	10.87	1.74	1.61
2	A2	27	DT	O3'-P	10.86	1.74	1.61
11	AB	798	DT	O3'-P	10.86	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1619	DT	O3'-P	10.86	1.74	1.61
11	AB	2878	DC	O3'-P	10.86	1.74	1.61
11	AB	2983	DC	O3'-P	10.86	1.74	1.61
11	AB	3223	DT	O3'-P	10.86	1.74	1.61
11	AB	3378	DC	O3'-P	10.86	1.74	1.61
11	AB	5852	DC	O3'-P	10.86	1.74	1.61
30	C6	18	DC	O3'-P	10.86	1.74	1.61
70	G1	14	DC	O3'-P	10.86	1.74	1.61
74	G6	19	DT	O3'-P	10.86	1.74	1.61
172	P9	6	DT	O3'-P	10.86	1.74	1.61
11	AB	278	DA	O3'-P	10.86	1.74	1.61
11	AB	1248	DC	O3'-P	10.86	1.74	1.61
11	AB	1269	DC	O3'-P	10.86	1.74	1.61
11	AB	1278	DT	O3'-P	10.86	1.74	1.61
11	AB	2155	DT	O3'-P	10.86	1.74	1.61
11	AB	2244	DT	O3'-P	10.86	1.74	1.61
11	AB	3534	DT	O3'-P	10.86	1.74	1.61
11	AB	3861	DA	O3'-P	10.86	1.74	1.61
11	AB	4539	DC	O3'-P	10.86	1.74	1.61
11	AB	4609	DC	O3'-P	10.86	1.74	1.61
11	AB	4784	DG	O3'-P	10.86	1.74	1.61
11	AB	4830	DT	O3'-P	10.86	1.74	1.61
11	AB	6220	DT	O3'-P	10.86	1.74	1.61
47	DD	19	DC	O3'-P	10.86	1.74	1.61
145	MD	40	DC	O3'-P	10.86	1.74	1.61
11	AB	5770	DT	O3'-P	10.86	1.74	1.61
35	CC	11	DC	O3'-P	10.86	1.74	1.61
51	E5	24	DG	O3'-P	10.86	1.74	1.61
62	F5	19	DC	O3'-P	10.86	1.74	1.61
108	J7	3	DT	O3'-P	10.86	1.74	1.61
85	H6	19	DT	O3'-P	10.86	1.74	1.61
127	L3	13	DT	O3'-P	10.86	1.74	1.61
177	Q3	8	DC	O3'-P	10.86	1.74	1.61
197	S7	7	DC	O3'-P	10.86	1.74	1.61
228	VC	30	DC	O3'-P	10.86	1.74	1.61
232	W7	26	DT	O3'-P	10.86	1.74	1.61
11	AB	186	DC	O3'-P	10.86	1.74	1.61
11	AB	282	DT	O3'-P	10.86	1.74	1.61
11	AB	338	DT	O3'-P	10.86	1.74	1.61
11	AB	883	DG	O3'-P	10.86	1.74	1.61
11	AB	1178	DA	O3'-P	10.86	1.74	1.61
11	AB	2082	DC	O3'-P	10.86	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2299	DT	O3'-P	10.86	1.74	1.61
11	AB	2757	DT	O3'-P	10.86	1.74	1.61
11	AB	4643	DC	O3'-P	10.86	1.74	1.61
11	AB	6193	DC	O3'-P	10.86	1.74	1.61
37	D1	11	DG	O3'-P	10.86	1.74	1.61
172	P9	5	DT	O3'-P	10.86	1.74	1.61
213	U3	8	DA	O3'-P	10.86	1.74	1.61
219	UC	9	DT	O3'-P	10.86	1.74	1.61
11	AB	3051	DC	O3'-P	10.86	1.74	1.61
11	AB	3056	DC	O3'-P	10.86	1.74	1.61
11	AB	3154	DG	O3'-P	10.86	1.74	1.61
11	AB	4156	DT	O3'-P	10.86	1.74	1.61
11	AB	4408	DT	O3'-P	10.86	1.74	1.61
11	AB	4459	DT	O3'-P	10.86	1.74	1.61
11	AB	4707	DC	O3'-P	10.86	1.74	1.61
11	AB	4759	DG	O3'-P	10.86	1.74	1.61
11	AB	5039	DC	O3'-P	10.86	1.74	1.61
11	AB	5741	DC	O3'-P	10.86	1.74	1.61
59	F1	8	DC	O3'-P	10.86	1.74	1.61
11	AB	4817	DC	O3'-P	10.86	1.74	1.61
11	AB	5033	DC	O3'-P	10.86	1.74	1.61
11	AB	5051	DC	O3'-P	10.86	1.74	1.61
11	AB	5347	DT	O3'-P	10.86	1.74	1.61
110	J9	20	DG	O3'-P	10.86	1.74	1.61
162	O9	17	DC	O3'-P	10.86	1.74	1.61
169	P6	9	DG	O3'-P	10.86	1.74	1.61
199	S9	5	DG	O3'-P	10.86	1.74	1.61
204	T3	4	DG	O3'-P	10.86	1.74	1.61
204	T3	25	DC	O3'-P	10.86	1.74	1.61
11	AB	5501	DT	O3'-P	10.86	1.74	1.61
11	AB	5766	DT	O3'-P	10.86	1.74	1.61
11	AB	6908	DC	O3'-P	10.86	1.74	1.61
11	AB	7104	DT	O3'-P	10.86	1.74	1.61
31	C7	27	DT	O3'-P	10.86	1.74	1.61
39	D3	14	DA	O3'-P	10.86	1.74	1.61
56	EA	21	DC	O3'-P	10.86	1.74	1.61
59	F1	9	DC	O3'-P	10.86	1.74	1.61
83	H3	8	DT	O3'-P	10.86	1.74	1.61
96	I6	1	DT	O3'-P	10.86	1.74	1.61
107	J6	36	DT	O3'-P	10.86	1.74	1.61
109	J8	12	DG	O3'-P	10.86	1.74	1.61
117	K5	20	DC	O3'-P	10.86	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
167	P3	12	DT	O3'-P	10.86	1.74	1.61
181	Q9	37	DC	O3'-P	10.86	1.74	1.61
206	T7	39	DG	O3'-P	10.86	1.74	1.61
231	W5	7	DG	O3'-P	10.86	1.74	1.61
11	AB	36	DT	O3'-P	10.86	1.74	1.61
11	AB	103	DT	O3'-P	10.86	1.74	1.61
11	AB	2928	DT	O3'-P	10.86	1.74	1.61
11	AB	2945	DT	O3'-P	10.86	1.74	1.61
11	AB	3801	DT	O3'-P	10.86	1.74	1.61
11	AB	4944	DC	O3'-P	10.86	1.74	1.61
88	H9	28	DC	O3'-P	10.86	1.74	1.61
105	J3	26	DT	O3'-P	10.86	1.74	1.61
117	K5	22	DC	O3'-P	10.86	1.74	1.61
142	M9	22	DT	O3'-P	10.86	1.74	1.61
11	AB	117	DC	O3'-P	10.86	1.74	1.61
11	AB	162	DT	O3'-P	10.86	1.74	1.61
11	AB	437	DG	O3'-P	10.86	1.74	1.61
11	AB	495	DC	O3'-P	10.86	1.74	1.61
11	AB	1430	DC	O3'-P	10.86	1.74	1.61
11	AB	1911	DT	O3'-P	10.86	1.74	1.61
11	AB	2128	DT	O3'-P	10.86	1.74	1.61
11	AB	2148	DT	O3'-P	10.86	1.74	1.61
11	AB	2249	DT	O3'-P	10.86	1.74	1.61
11	AB	2322	DT	O3'-P	10.86	1.74	1.61
11	AB	3654	DC	O3'-P	10.86	1.74	1.61
11	AB	3746	DT	O3'-P	10.86	1.74	1.61
11	AB	3958	DC	O3'-P	10.86	1.74	1.61
11	AB	5145	DC	O3'-P	10.86	1.74	1.61
11	AB	4540	DC	O3'-P	10.86	1.74	1.61
11	AB	5160	DC	O3'-P	10.86	1.74	1.61
11	AB	5408	DC	O3'-P	10.86	1.74	1.61
11	AB	5661	DT	O3'-P	10.86	1.74	1.61
11	AB	6206	DT	O3'-P	10.86	1.74	1.61
11	AB	6994	DT	O3'-P	10.86	1.74	1.61
32	C8	22	DC	O3'-P	10.86	1.74	1.61
34	CA	8	DA	O3'-P	10.86	1.74	1.61
43	D8	23	DC	O3'-P	10.86	1.74	1.61
56	EA	18	DC	O3'-P	10.86	1.74	1.61
81	H1	12	DG	O3'-P	10.86	1.74	1.61
95	I5	4	DT	O3'-P	10.86	1.74	1.61
105	J3	15	DC	O3'-P	10.86	1.74	1.61
90	HC	12	DC	O3'-P	10.86	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
110	J9	16	DC	O3'-P	10.86	1.74	1.61
113	JD	11	DG	O3'-P	10.86	1.74	1.61
115	K2	18	DC	O3'-P	10.86	1.74	1.61
115	K2	22	DT	O3'-P	10.86	1.74	1.61
117	K5	19	DC	O3'-P	10.86	1.74	1.61
126	L2	9	DT	O3'-P	10.86	1.74	1.61
180	Q8	11	DC	O3'-P	10.86	1.74	1.61
187	R5	5	DC	O3'-P	10.86	1.74	1.61
191	RA	13	DC	O3'-P	10.86	1.74	1.61
194	S2	15	DG	O3'-P	10.86	1.74	1.61
11	AB	1057	DA	O3'-P	10.85	1.74	1.61
11	AB	1243	DC	O3'-P	10.85	1.74	1.61
11	AB	2327	DC	O3'-P	10.85	1.74	1.61
11	AB	4559	DA	O3'-P	10.85	1.74	1.61
11	AB	5186	DC	O3'-P	10.85	1.74	1.61
71	G2	5	DC	O3'-P	10.85	1.74	1.61
113	JD	24	DC	O3'-P	10.85	1.74	1.61
9	A9	2	DT	O3'-P	10.85	1.74	1.61
11	AB	422	DG	O3'-P	10.85	1.74	1.61
11	AB	818	DC	O3'-P	10.85	1.74	1.61
11	AB	834	DC	O3'-P	10.85	1.74	1.61
11	AB	1125	DG	O3'-P	10.85	1.74	1.61
11	AB	1272	DT	O3'-P	10.85	1.74	1.61
11	AB	2589	DC	O3'-P	10.85	1.74	1.61
11	AB	2933	DT	O3'-P	10.85	1.74	1.61
11	AB	3076	DC	O3'-P	10.85	1.74	1.61
11	AB	3095	DT	O3'-P	10.85	1.74	1.61
11	AB	6485	DC	O3'-P	10.85	1.74	1.61
11	AB	7206	DC	O3'-P	10.85	1.74	1.61
52	E6	8	DA	O3'-P	10.85	1.74	1.61
52	E6	33	DG	O3'-P	10.85	1.74	1.61
93	I2	48	DC	O3'-P	10.85	1.74	1.61
11	AB	1526	DG	O3'-P	10.85	1.74	1.61
11	AB	1971	DG	O3'-P	10.85	1.74	1.61
11	AB	2415	DG	O3'-P	10.85	1.74	1.61
11	AB	3241	DT	O3'-P	10.85	1.74	1.61
11	AB	4258	DC	O3'-P	10.85	1.74	1.61
107	J6	1	DC	O3'-P	10.85	1.74	1.61
139	M6	17	DC	O3'-P	10.85	1.74	1.61
11	AB	3396	DT	O3'-P	10.85	1.74	1.61
11	AB	3961	DT	O3'-P	10.85	1.74	1.61
11	AB	4079	DT	O3'-P	10.85	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4368	DC	O3'-P	10.85	1.74	1.61
11	AB	4598	DC	O3'-P	10.85	1.74	1.61
11	AB	6526	DC	O3'-P	10.85	1.74	1.61
11	AB	4981	DC	O3'-P	10.85	1.74	1.61
11	AB	6038	DT	O3'-P	10.85	1.74	1.61
11	AB	6148	DT	O3'-P	10.85	1.74	1.61
11	AB	6396	DT	O3'-P	10.85	1.74	1.61
11	AB	6631	DC	O3'-P	10.85	1.74	1.61
43	D8	11	DT	O3'-P	10.85	1.74	1.61
108	J7	15	DC	O3'-P	10.85	1.74	1.61
11	AB	7245	DC	O3'-P	10.85	1.74	1.61
33	C9	26	DT	O3'-P	10.85	1.74	1.61
57	EC	10	DG	O3'-P	10.85	1.74	1.61
89	HA	24	DG	O3'-P	10.85	1.74	1.61
112	JC	5	DC	O3'-P	10.85	1.74	1.61
161	O8	26	DC	O3'-P	10.85	1.74	1.61
138	M5	1	DC	O3'-P	10.85	1.74	1.61
150	N7	5	DG	O3'-P	10.85	1.74	1.61
162	O9	7	DC	O3'-P	10.85	1.74	1.61
197	S7	11	DC	O3'-P	10.85	1.74	1.61
236	X5	6	DC	O3'-P	10.85	1.74	1.61
11	AB	174	DC	O3'-P	10.85	1.74	1.61
11	AB	967	DC	O3'-P	10.85	1.74	1.61
11	AB	1268	DC	O3'-P	10.85	1.74	1.61
11	AB	1885	DT	O3'-P	10.85	1.74	1.61
11	AB	6699	DT	O3'-P	10.85	1.74	1.61
25	BD	12	DT	O3'-P	10.85	1.74	1.61
11	AB	61	DG	O3'-P	10.85	1.74	1.61
11	AB	66	DT	O3'-P	10.85	1.74	1.61
11	AB	373	DG	O3'-P	10.85	1.74	1.61
11	AB	727	DC	O3'-P	10.85	1.74	1.61
11	AB	4194	DC	O3'-P	10.85	1.74	1.61
30	C6	20	DT	O3'-P	10.85	1.74	1.61
11	AB	1421	DT	O3'-P	10.85	1.74	1.61
11	AB	1463	DT	O3'-P	10.85	1.74	1.61
11	AB	1486	DT	O3'-P	10.85	1.74	1.61
11	AB	1632	DT	O3'-P	10.85	1.74	1.61
11	AB	2254	DT	O3'-P	10.85	1.74	1.61
11	AB	2302	DT	O3'-P	10.85	1.74	1.61
11	AB	2560	DT	O3'-P	10.85	1.74	1.61
11	AB	2789	DA	O3'-P	10.85	1.74	1.61
11	AB	3045	DT	O3'-P	10.85	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3145	DC	O3'-P	10.85	1.74	1.61
11	AB	3166	DC	O3'-P	10.85	1.74	1.61
11	AB	3667	DT	O3'-P	10.85	1.74	1.61
11	AB	4323	DC	O3'-P	10.85	1.74	1.61
11	AB	4714	DT	O3'-P	10.85	1.74	1.61
11	AB	5002	DC	O3'-P	10.85	1.74	1.61
11	AB	5031	DT	O3'-P	10.85	1.74	1.61
49	E2	1	DC	O3'-P	10.85	1.74	1.61
125	L1	22	DT	O3'-P	10.85	1.74	1.61
223	V5	33	DT	O3'-P	10.85	1.74	1.61
11	AB	6886	DC	O3'-P	10.85	1.74	1.61
37	D1	32	DC	O3'-P	10.85	1.74	1.61
41	D6	37	DT	O3'-P	10.85	1.74	1.61
125	L1	40	DC	O3'-P	10.85	1.74	1.61
145	MD	49	DC	O3'-P	10.85	1.74	1.61
152	N9	20	DT	O3'-P	10.85	1.74	1.61
154	NC	1	DC	O3'-P	10.85	1.74	1.61
174	PC	7	DG	O3'-P	10.85	1.74	1.61
187	R5	18	DG	O3'-P	10.85	1.74	1.61
199	S9	11	DC	O3'-P	10.85	1.74	1.61
11	AB	121	DT	O3'-P	10.85	1.74	1.61
11	AB	142	DT	O3'-P	10.85	1.74	1.61
11	AB	395	DC	O3'-P	10.85	1.74	1.61
11	AB	3979	DT	O3'-P	10.85	1.74	1.61
11	AB	5280	DT	O3'-P	10.85	1.74	1.61
11	AB	6280	DT	O3'-P	10.85	1.74	1.61
11	AB	6913	DT	O3'-P	10.85	1.74	1.61
113	JD	4	DG	O3'-P	10.85	1.74	1.61
11	AB	236	DC	O3'-P	10.85	1.74	1.61
11	AB	1053	DG	O3'-P	10.85	1.74	1.61
11	AB	1909	DG	O3'-P	10.85	1.74	1.61
11	AB	2134	DT	O3'-P	10.85	1.74	1.61
11	AB	2687	DG	O3'-P	10.85	1.74	1.61
11	AB	3668	DT	O3'-P	10.85	1.74	1.61
11	AB	5045	DG	O3'-P	10.85	1.74	1.61
11	AB	5270	DT	O3'-P	10.85	1.74	1.61
31	C7	28	DT	O3'-P	10.85	1.74	1.61
11	AB	2578	DC	O3'-P	10.85	1.74	1.61
11	AB	5176	DG	O3'-P	10.85	1.74	1.61
11	AB	5868	DC	O3'-P	10.85	1.74	1.61
11	AB	6033	DT	O3'-P	10.85	1.74	1.61
11	AB	6366	DT	O3'-P	10.85	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BC	8	DG	O3'-P	10.85	1.74	1.61
29	C5	28	DA	O3'-P	10.85	1.74	1.61
74	G6	14	DT	O3'-P	10.85	1.74	1.61
74	G6	15	DT	O3'-P	10.85	1.74	1.61
94	I3	55	DG	O3'-P	10.85	1.74	1.61
120	K8	8	DG	O3'-P	10.85	1.74	1.61
136	M2	12	DT	O3'-P	10.85	1.74	1.61
154	NC	15	DT	O3'-P	10.85	1.74	1.61
160	O7	24	DT	O3'-P	10.85	1.74	1.61
168	P5	17	DA	O3'-P	10.85	1.74	1.61
184	QD	12	DT	O3'-P	10.85	1.74	1.61
188	R7	13	DG	O3'-P	10.85	1.74	1.61
189	R8	12	DT	O3'-P	10.85	1.74	1.61
190	R9	28	DG	O3'-P	10.85	1.74	1.61
11	AB	108	DT	O3'-P	10.84	1.74	1.61
11	AB	129	DT	O3'-P	10.84	1.74	1.61
11	AB	143	DT	O3'-P	10.84	1.74	1.61
6	A6	19	DT	O3'-P	10.84	1.74	1.61
11	AB	337	DT	O3'-P	10.84	1.74	1.61
11	AB	503	DT	O3'-P	10.84	1.74	1.61
11	AB	840	DC	O3'-P	10.84	1.74	1.61
11	AB	861	DG	O3'-P	10.84	1.74	1.61
11	AB	1038	DG	O3'-P	10.84	1.74	1.61
11	AB	1354	DT	O3'-P	10.84	1.74	1.61
11	AB	1631	DT	O3'-P	10.84	1.74	1.61
11	AB	1835	DG	O3'-P	10.84	1.74	1.61
11	AB	2035	DG	O3'-P	10.84	1.74	1.61
11	AB	2617	DC	O3'-P	10.84	1.74	1.61
11	AB	2648	DT	O3'-P	10.84	1.74	1.61
11	AB	2748	DT	O3'-P	10.84	1.74	1.61
11	AB	2790	DA	O3'-P	10.84	1.74	1.61
11	AB	3200	DT	O3'-P	10.84	1.74	1.61
11	AB	3998	DG	O3'-P	10.84	1.74	1.61
11	AB	6203	DT	O3'-P	10.84	1.74	1.61
11	AB	6293	DT	O3'-P	10.84	1.74	1.61
11	AB	2890	DT	O3'-P	10.84	1.74	1.61
11	AB	3639	DT	O3'-P	10.84	1.74	1.61
11	AB	3778	DG	O3'-P	10.84	1.74	1.61
11	AB	4069	DT	O3'-P	10.84	1.74	1.61
11	AB	4135	DC	O3'-P	10.84	1.74	1.61
11	AB	4170	DT	O3'-P	10.84	1.74	1.61
11	AB	5187	DC	O3'-P	10.84	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5570	DT	O3'-P	10.84	1.74	1.61
11	AB	5645	DT	O3'-P	10.84	1.74	1.61
13	AD	36	DT	O3'-P	10.84	1.74	1.61
159	O6	14	DT	O3'-P	10.84	1.74	1.61
165	OD	57	DT	O3'-P	10.84	1.74	1.61
11	AB	4457	DT	O3'-P	10.84	1.74	1.61
11	AB	5329	DT	O3'-P	10.84	1.74	1.61
11	AB	5355	DT	O3'-P	10.84	1.74	1.61
11	AB	6758	DT	O3'-P	10.84	1.74	1.61
11	AB	7103	DT	O3'-P	10.84	1.74	1.61
18	B5	27	DT	O3'-P	10.84	1.74	1.61
24	BC	40	DC	O3'-P	10.84	1.74	1.61
37	D1	21	DC	O3'-P	10.84	1.74	1.61
88	H9	30	DG	O3'-P	10.84	1.74	1.61
98	I8	5	DT	O3'-P	10.84	1.74	1.61
122	KA	49	DT	O3'-P	10.84	1.74	1.61
139	M6	23	DC	O3'-P	10.84	1.74	1.61
164	OC	12	DC	O3'-P	10.84	1.74	1.61
173	PA	24	DT	O3'-P	10.84	1.74	1.61
196	S5	16	DC	O3'-P	10.84	1.74	1.61
205	T5	16	DC	O3'-P	10.84	1.74	1.61
5	A5	11	DT	O3'-P	10.84	1.74	1.61
1	A1	10	DC	O3'-P	10.84	1.74	1.61
7	A7	38	DT	O3'-P	10.84	1.74	1.61
11	AB	771	DT	O3'-P	10.84	1.74	1.61
11	AB	1077	DG	O3'-P	10.84	1.74	1.61
11	AB	1191	DG	O3'-P	10.84	1.74	1.61
11	AB	1438	DT	O3'-P	10.84	1.74	1.61
11	AB	6826	DC	O3'-P	10.84	1.74	1.61
168	P5	4	DC	O3'-P	10.84	1.74	1.61
11	AB	1131	DG	O3'-P	10.84	1.74	1.61
11	AB	1226	DC	O3'-P	10.84	1.74	1.61
11	AB	1289	DT	O3'-P	10.84	1.74	1.61
11	AB	2243	DT	O3'-P	10.84	1.74	1.61
11	AB	2661	DA	O3'-P	10.84	1.74	1.61
11	AB	2918	DG	O3'-P	10.84	1.74	1.61
11	AB	3426	DT	O3'-P	10.84	1.74	1.61
223	V5	25	DC	O3'-P	10.84	1.74	1.61
11	AB	3549	DT	O3'-P	10.84	1.74	1.61
11	AB	3987	DC	O3'-P	10.84	1.74	1.61
11	AB	4160	DT	O3'-P	10.84	1.74	1.61
11	AB	4202	DG	O3'-P	10.84	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4400	DG	O3'-P	10.84	1.74	1.61
11	AB	4642	DC	O3'-P	10.84	1.74	1.61
11	AB	4906	DT	O3'-P	10.84	1.74	1.61
11	AB	4950	DG	O3'-P	10.84	1.74	1.61
11	AB	5961	DA	O3'-P	10.84	1.74	1.61
11	AB	5829	DT	O3'-P	10.84	1.74	1.61
11	AB	6221	DT	O3'-P	10.84	1.74	1.61
11	AB	6274	DT	O3'-P	10.84	1.74	1.61
11	AB	6309	DG	O3'-P	10.84	1.74	1.61
11	AB	6378	DC	O3'-P	10.84	1.74	1.61
11	AB	6548	DT	O3'-P	10.84	1.74	1.61
11	AB	7170	DT	O3'-P	10.84	1.74	1.61
12	AC	18	DG	O3'-P	10.84	1.74	1.61
21	B8	5	DT	O3'-P	10.84	1.74	1.61
54	E8	13	DT	O3'-P	10.84	1.74	1.61
59	F1	7	DC	O3'-P	10.84	1.74	1.61
62	F5	40	DT	O3'-P	10.84	1.74	1.61
67	FA	31	DG	O3'-P	10.84	1.74	1.61
86	H7	13	DG	O3'-P	10.84	1.74	1.61
95	I5	5	DT	O3'-P	10.84	1.74	1.61
96	I6	7	DT	O3'-P	10.84	1.74	1.61
113	JD	31	DC	O3'-P	10.84	1.74	1.61
116	K3	15	DG	O3'-P	10.84	1.74	1.61
147	N3	32	DT	O3'-P	10.84	1.74	1.61
149	N6	46	DC	O3'-P	10.84	1.74	1.61
154	NC	27	DC	O3'-P	10.84	1.74	1.61
166	P2	34	DT	O3'-P	10.84	1.74	1.61
167	P3	3	DG	O3'-P	10.84	1.74	1.61
223	V5	1	DC	O3'-P	10.84	1.74	1.61
4	A4	10	DG	O3'-P	10.84	1.74	1.61
11	AB	90	DG	O3'-P	10.84	1.74	1.61
11	AB	307	DG	O3'-P	10.84	1.74	1.61
11	AB	396	DC	O3'-P	10.84	1.74	1.61
11	AB	411	DG	O3'-P	10.84	1.74	1.61
11	AB	453	DG	O3'-P	10.84	1.74	1.61
11	AB	954	DG	O3'-P	10.84	1.74	1.61
11	AB	1824	DG	O3'-P	10.84	1.74	1.61
11	AB	407	DG	O3'-P	10.84	1.74	1.61
11	AB	468	DC	O3'-P	10.84	1.74	1.61
11	AB	855	DG	O3'-P	10.84	1.74	1.61
11	AB	1851	DG	O3'-P	10.84	1.74	1.61
11	AB	913	DG	O3'-P	10.84	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1914	DG	O3'-P	10.84	1.74	1.61
11	AB	2014	DG	O3'-P	10.84	1.74	1.61
11	AB	2660	DT	O3'-P	10.84	1.74	1.61
11	AB	3059	DT	O3'-P	10.84	1.74	1.61
11	AB	3607	DC	O3'-P	10.84	1.74	1.61
11	AB	3837	DG	O3'-P	10.84	1.74	1.61
11	AB	4409	DT	O3'-P	10.84	1.74	1.61
11	AB	4583	DG	O3'-P	10.84	1.74	1.61
11	AB	6552	DT	O3'-P	10.84	1.74	1.61
82	H2	19	DC	O3'-P	10.84	1.74	1.61
94	I3	53	DT	O3'-P	10.84	1.74	1.61
126	L2	57	DA	O3'-P	10.84	1.74	1.61
152	N9	2	DG	O3'-P	10.84	1.74	1.61
156	O2	52	DC	O3'-P	10.84	1.74	1.61
173	PA	3	DG	O3'-P	10.84	1.74	1.61
179	Q7	22	DG	O3'-P	10.84	1.74	1.61
191	RA	6	DG	O3'-P	10.84	1.74	1.61
11	AB	939	DG	O3'-P	10.84	1.74	1.61
11	AB	1943	DG	O3'-P	10.84	1.74	1.61
11	AB	3370	DC	O3'-P	10.84	1.74	1.61
11	AB	4033	DT	O3'-P	10.84	1.74	1.61
11	AB	4076	DG	O3'-P	10.84	1.74	1.61
11	AB	4491	DT	O3'-P	10.84	1.74	1.61
11	AB	5078	DC	O3'-P	10.84	1.74	1.61
11	AB	5135	DC	O3'-P	10.84	1.74	1.61
11	AB	5531	DC	O3'-P	10.84	1.74	1.61
11	AB	5604	DC	O3'-P	10.84	1.74	1.61
11	AB	5701	DC	O3'-P	10.84	1.74	1.61
11	AB	6244	DG	O3'-P	10.84	1.74	1.61
11	AB	6635	DT	O3'-P	10.84	1.74	1.61
24	BC	15	DG	O3'-P	10.84	1.74	1.61
81	H1	21	DT	O3'-P	10.84	1.74	1.61
217	U9	23	DG	O3'-P	10.84	1.74	1.61
230	W3	38	DG	O3'-P	10.84	1.74	1.61
11	AB	6786	DC	O3'-P	10.84	1.74	1.61
33	C9	16	DA	O3'-P	10.84	1.74	1.61
110	J9	6	DA	O3'-P	10.84	1.74	1.61
123	KC	11	DG	O3'-P	10.84	1.74	1.61
164	OC	23	DC	O3'-P	10.84	1.74	1.61
130	L7	45	DT	O3'-P	10.84	1.74	1.61
166	P2	18	DT	O3'-P	10.84	1.74	1.61
166	P2	28	DG	O3'-P	10.84	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
197	S7	20	DC	O3'-P	10.84	1.74	1.61
11	AB	74	DT	O3'-P	10.83	1.74	1.61
11	AB	705	DT	O3'-P	10.83	1.74	1.61
11	AB	2226	DT	O3'-P	10.83	1.74	1.61
11	AB	3385	DT	O3'-P	10.83	1.74	1.61
11	AB	3389	DT	O3'-P	10.83	1.74	1.61
11	AB	4524	DG	O3'-P	10.83	1.74	1.61
11	AB	5558	DT	O3'-P	10.83	1.74	1.61
11	AB	6282	DT	O3'-P	10.83	1.74	1.61
69	FD	8	DG	O3'-P	10.83	1.74	1.61
104	J2	10	DC	O3'-P	10.83	1.74	1.61
122	KA	36	DT	O3'-P	10.83	1.74	1.61
126	L2	21	DT	O3'-P	10.83	1.74	1.61
192	RC	7	DG	O3'-P	10.83	1.74	1.61
11	AB	796	DT	O3'-P	10.83	1.74	1.61
11	AB	945	DG	O3'-P	10.83	1.74	1.61
11	AB	1653	DT	O3'-P	10.83	1.74	1.61
11	AB	1878	DT	O3'-P	10.83	1.74	1.61
11	AB	1927	DG	O3'-P	10.83	1.74	1.61
11	AB	2140	DT	O3'-P	10.83	1.74	1.61
11	AB	4487	DC	O3'-P	10.83	1.74	1.61
11	AB	4842	DG	O3'-P	10.83	1.74	1.61
11	AB	5525	DC	O3'-P	10.83	1.74	1.61
11	AB	5644	DT	O3'-P	10.83	1.74	1.61
11	AB	5869	DC	O3'-P	10.83	1.74	1.61
11	AB	6218	DG	O3'-P	10.83	1.74	1.61
44	D9	28	DC	O3'-P	10.83	1.74	1.61
209	TA	5	DG	O3'-P	10.83	1.74	1.61
11	AB	7216	DG	O3'-P	10.83	1.74	1.61
72	G3	24	DC	O3'-P	10.83	1.74	1.61
82	H2	10	DT	O3'-P	10.83	1.74	1.61
109	J8	22	DT	O3'-P	10.83	1.74	1.61
126	L2	45	DG	O3'-P	10.83	1.74	1.61
127	L3	4	DG	O3'-P	10.83	1.74	1.61
187	R5	6	DC	O3'-P	10.83	1.74	1.61
194	S2	29	DG	O3'-P	10.83	1.74	1.61
214	U5	9	DC	O3'-P	10.83	1.74	1.61
11	AB	781	DG	O3'-P	10.83	1.74	1.61
11	AB	1209	DC	O3'-P	10.83	1.74	1.61
11	AB	14	DG	O3'-P	10.83	1.74	1.61
11	AB	843	DC	O3'-P	10.83	1.74	1.61
11	AB	1293	DC	O3'-P	10.83	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1465	DC	O3'-P	10.83	1.74	1.61
11	AB	1571	DG	O3'-P	10.83	1.74	1.61
11	AB	1702	DG	O3'-P	10.83	1.74	1.61
11	AB	2376	DT	O3'-P	10.83	1.74	1.61
11	AB	3460	DG	O3'-P	10.83	1.74	1.61
11	AB	4157	DT	O3'-P	10.83	1.74	1.61
11	AB	4246	DA	O3'-P	10.83	1.74	1.61
11	AB	4572	DG	O3'-P	10.83	1.74	1.61
11	AB	4909	DC	O3'-P	10.83	1.74	1.61
11	AB	5605	DC	O3'-P	10.83	1.74	1.61
11	AB	5670	DT	O3'-P	10.83	1.74	1.61
11	AB	5702	DC	O3'-P	10.83	1.74	1.61
11	AB	6345	DG	O3'-P	10.83	1.74	1.61
11	AB	6571	DC	O3'-P	10.83	1.74	1.61
11	AB	6684	DC	O3'-P	10.83	1.74	1.61
11	AB	6776	DT	O3'-P	10.83	1.74	1.61
11	AB	7132	DT	O3'-P	10.83	1.74	1.61
21	B8	1	DT	O3'-P	10.83	1.74	1.61
23	BA	6	DT	O3'-P	10.83	1.74	1.61
32	C8	26	DC	O3'-P	10.83	1.74	1.61
52	E6	20	DC	O3'-P	10.83	1.74	1.61
61	F3	20	DC	O3'-P	10.83	1.74	1.61
96	I6	8	DT	O3'-P	10.83	1.74	1.61
119	K7	17	DC	O3'-P	10.83	1.74	1.61
124	KD	21	DT	O3'-P	10.83	1.74	1.61
147	N3	19	DG	O3'-P	10.83	1.74	1.61
154	NC	12	DT	O3'-P	10.83	1.74	1.61
158	O5	19	DC	O3'-P	10.83	1.74	1.61
166	P2	17	DT	O3'-P	10.83	1.74	1.61
181	Q9	33	DT	O3'-P	10.83	1.74	1.61
194	S2	27	DT	O3'-P	10.83	1.74	1.61
2	A2	12	DC	O3'-P	10.83	1.74	1.61
8	A8	13	DT	O3'-P	10.83	1.74	1.61
10	AA	26	DG	O3'-P	10.83	1.74	1.61
11	AB	622	DG	O3'-P	10.83	1.74	1.61
11	AB	1034	DA	O3'-P	10.83	1.74	1.61
11	AB	3403	DT	O3'-P	10.83	1.74	1.61
11	AB	6149	DT	O3'-P	10.83	1.74	1.61
11	AB	768	DG	O3'-P	10.83	1.74	1.61
11	AB	987	DA	O3'-P	10.83	1.74	1.61
11	AB	1587	DT	O3'-P	10.83	1.74	1.61
11	AB	2046	DT	O3'-P	10.83	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2132	DT	O3'-P	10.83	1.74	1.61
11	AB	3698	DC	O3'-P	10.83	1.74	1.61
11	AB	3867	DT	O3'-P	10.83	1.74	1.61
11	AB	4185	DC	O3'-P	10.83	1.74	1.61
11	AB	4340	DC	O3'-P	10.83	1.74	1.61
11	AB	4357	DG	O3'-P	10.83	1.74	1.61
11	AB	4864	DG	O3'-P	10.83	1.74	1.61
11	AB	5268	DT	O3'-P	10.83	1.74	1.61
11	AB	5349	DT	O3'-P	10.83	1.74	1.61
11	AB	5843	DT	O3'-P	10.83	1.74	1.61
11	AB	6205	DT	O3'-P	10.83	1.74	1.61
32	C8	4	DG	O3'-P	10.83	1.74	1.61
45	DA	18	DC	O3'-P	10.83	1.74	1.61
230	W3	32	DT	O3'-P	10.83	1.74	1.61
11	AB	5556	DG	O3'-P	10.83	1.74	1.61
11	AB	6379	DC	O3'-P	10.83	1.74	1.61
11	AB	6491	DG	O3'-P	10.83	1.74	1.61
14	B1	23	DA	O3'-P	10.83	1.74	1.61
35	CC	31	DG	O3'-P	10.83	1.74	1.61
37	D1	18	DC	O3'-P	10.83	1.74	1.61
85	H6	22	DC	O3'-P	10.83	1.74	1.61
102	ID	14	DT	O3'-P	10.83	1.74	1.61
92	I1	22	DG	O3'-P	10.83	1.74	1.61
118	K6	15	DC	O3'-P	10.83	1.74	1.61
167	P3	14	DT	O3'-P	10.83	1.74	1.61
181	Q9	34	DT	O3'-P	10.83	1.74	1.61
125	L1	6	DG	O3'-P	10.83	1.74	1.61
135	LD	11	DA	O3'-P	10.83	1.74	1.61
173	PA	36	DG	O3'-P	10.83	1.74	1.61
184	QD	10	DT	O3'-P	10.83	1.74	1.61
185	R2	11	DG	O3'-P	10.83	1.74	1.61
187	R5	4	DG	O3'-P	10.83	1.74	1.61
200	SA	6	DG	O3'-P	10.83	1.74	1.61
209	TA	12	DG	O3'-P	10.83	1.74	1.61
223	V5	10	DG	O3'-P	10.83	1.74	1.61
236	X5	11	DT	O3'-P	10.83	1.74	1.61
11	AB	109	DT	O3'-P	10.82	1.74	1.61
11	AB	385	DG	O3'-P	10.82	1.74	1.61
11	AB	635	DG	O3'-P	10.82	1.74	1.61
11	AB	1106	DT	O3'-P	10.82	1.74	1.61
11	AB	4014	DT	O3'-P	10.82	1.74	1.61
11	AB	816	DG	O3'-P	10.82	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1175	DC	O3'-P	10.82	1.74	1.61
79	GC	3	DG	O3'-P	10.82	1.74	1.61
11	AB	1244	DC	O3'-P	10.82	1.74	1.61
11	AB	1863	DG	O3'-P	10.82	1.74	1.61
11	AB	2344	DG	O3'-P	10.82	1.74	1.61
11	AB	3366	DT	O3'-P	10.82	1.74	1.61
11	AB	3383	DT	O3'-P	10.82	1.74	1.61
11	AB	4052	DC	O3'-P	10.82	1.74	1.61
11	AB	4968	DC	O3'-P	10.82	1.74	1.61
11	AB	4982	DC	O3'-P	10.82	1.74	1.61
11	AB	5177	DC	O3'-P	10.82	1.74	1.61
11	AB	5365	DG	O3'-P	10.82	1.74	1.61
11	AB	7162	DT	O3'-P	10.82	1.74	1.61
11	AB	4458	DT	O3'-P	10.82	1.74	1.61
11	AB	4515	DG	O3'-P	10.82	1.74	1.61
11	AB	5341	DT	O3'-P	10.82	1.74	1.61
11	AB	5423	DT	O3'-P	10.82	1.74	1.61
11	AB	5542	DT	O3'-P	10.82	1.74	1.61
47	DD	10	DC	O3'-P	10.82	1.74	1.61
28	C3	22	DA	O3'-P	10.82	1.74	1.61
52	E6	23	DC	O3'-P	10.82	1.74	1.61
62	F5	44	DT	O3'-P	10.82	1.74	1.61
136	M2	18	DG	O3'-P	10.82	1.74	1.61
141	M8	29	DT	O3'-P	10.82	1.74	1.61
181	Q9	38	DC	O3'-P	10.82	1.74	1.61
194	S2	9	DT	O3'-P	10.82	1.74	1.61
196	S5	20	DC	O3'-P	10.82	1.74	1.61
11	AB	160	DT	O3'-P	10.82	1.74	1.61
11	AB	438	DG	O3'-P	10.82	1.74	1.61
11	AB	452	DG	O3'-P	10.82	1.74	1.61
11	AB	550	DA	O3'-P	10.82	1.74	1.61
11	AB	2293	DT	O3'-P	10.82	1.74	1.61
11	AB	2697	DG	O3'-P	10.82	1.74	1.61
11	AB	3123	DG	O3'-P	10.82	1.74	1.61
11	AB	3233	DT	O3'-P	10.82	1.74	1.61
11	AB	3588	DT	O3'-P	10.82	1.74	1.61
11	AB	5206	DT	O3'-P	10.82	1.74	1.61
11	AB	6816	DG	O3'-P	10.82	1.74	1.61
14	B1	2	DG	O3'-P	10.82	1.74	1.61
33	C9	15	DT	O3'-P	10.82	1.74	1.61
57	EC	11	DG	O3'-P	10.82	1.74	1.61
69	FD	2	DG	O3'-P	10.82	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	H6	21	DG	O3'-P	10.82	1.74	1.61
100	IA	14	DT	O3'-P	10.82	1.74	1.61
141	M8	28	DT	O3'-P	10.82	1.74	1.61
11	AB	18	DG	O3'-P	10.82	1.74	1.61
11	AB	159	DT	O3'-P	10.82	1.74	1.61
11	AB	444	DG	O3'-P	10.82	1.74	1.61
11	AB	507	DT	O3'-P	10.82	1.74	1.61
11	AB	548	DG	O3'-P	10.82	1.74	1.61
11	AB	659	DG	O3'-P	10.82	1.74	1.61
11	AB	963	DG	O3'-P	10.82	1.74	1.61
11	AB	1161	DG	O3'-P	10.82	1.74	1.61
11	AB	1169	DT	O3'-P	10.82	1.74	1.61
11	AB	1415	DG	O3'-P	10.82	1.74	1.61
11	AB	2048	DT	O3'-P	10.82	1.74	1.61
11	AB	3357	DA	O3'-P	10.82	1.74	1.61
11	AB	2603	DG	O3'-P	10.82	1.74	1.61
11	AB	3351	DC	O3'-P	10.82	1.74	1.61
11	AB	3404	DT	O3'-P	10.82	1.74	1.61
11	AB	3744	DT	O3'-P	10.82	1.74	1.61
48	E1	16	DC	O3'-P	10.82	1.74	1.61
144	MC	12	DG	O3'-P	10.82	1.74	1.61
11	AB	3596	DT	O3'-P	10.82	1.74	1.61
11	AB	3781	DG	O3'-P	10.82	1.74	1.61
11	AB	4176	DC	O3'-P	10.82	1.74	1.61
11	AB	4568	DC	O3'-P	10.82	1.74	1.61
11	AB	5009	DG	O3'-P	10.82	1.74	1.61
11	AB	5358	DA	O3'-P	10.82	1.74	1.61
11	AB	5684	DT	O3'-P	10.82	1.74	1.61
11	AB	6266	DT	O3'-P	10.82	1.74	1.61
27	C2	6	DG	O3'-P	10.82	1.74	1.61
43	D8	17	DC	O3'-P	10.82	1.74	1.61
117	K5	21	DC	O3'-P	10.82	1.74	1.61
32	C8	29	DC	O3'-P	10.82	1.74	1.61
42	D7	19	DG	O3'-P	10.82	1.74	1.61
46	DC	8	DG	O3'-P	10.82	1.74	1.61
58	ED	22	DC	O3'-P	10.82	1.74	1.61
76	G8	18	DG	O3'-P	10.82	1.74	1.61
144	MC	8	DG	O3'-P	10.82	1.74	1.61
147	N3	29	DC	O3'-P	10.82	1.74	1.61
151	N8	15	DG	O3'-P	10.82	1.74	1.61
156	O2	48	DC	O3'-P	10.82	1.74	1.61
178	Q5	20	DT	O3'-P	10.82	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
205	T5	17	DC	O3'-P	10.82	1.74	1.61
217	U9	7	DG	O3'-P	10.82	1.74	1.61
11	AB	1766	DT	O3'-P	10.82	1.74	1.61
11	AB	2247	DT	O3'-P	10.82	1.74	1.61
11	AB	4826	DC	O3'-P	10.82	1.74	1.61
60	F2	8	DT	O3'-P	10.82	1.74	1.61
6	A6	16	DC	O3'-P	10.82	1.74	1.61
11	AB	99	DC	O3'-P	10.82	1.74	1.61
11	AB	493	DT	O3'-P	10.82	1.74	1.61
11	AB	660	DG	O3'-P	10.82	1.74	1.61
11	AB	1008	DG	O3'-P	10.82	1.74	1.61
11	AB	1040	DG	O3'-P	10.82	1.74	1.61
11	AB	1783	DT	O3'-P	10.82	1.74	1.61
11	AB	3090	DT	O3'-P	10.82	1.74	1.61
11	AB	4571	DG	O3'-P	10.82	1.74	1.61
11	AB	6307	DG	O3'-P	10.82	1.74	1.61
211	TD	14	DT	O3'-P	10.82	1.74	1.61
11	AB	1613	DG	O3'-P	10.82	1.74	1.61
11	AB	2042	DT	O3'-P	10.82	1.74	1.61
11	AB	2738	DT	O3'-P	10.82	1.74	1.61
11	AB	4116	DC	O3'-P	10.82	1.74	1.61
11	AB	4715	DT	O3'-P	10.82	1.74	1.61
11	AB	4987	DC	O3'-P	10.82	1.74	1.61
11	AB	5330	DT	O3'-P	10.82	1.74	1.61
11	AB	6306	DG	O3'-P	10.82	1.74	1.61
11	AB	6386	DG	O3'-P	10.82	1.74	1.61
11	AB	6828	DT	O3'-P	10.82	1.74	1.61
20	B7	6	DT	O3'-P	10.82	1.74	1.61
28	C3	20	DG	O3'-P	10.82	1.74	1.61
40	D5	24	DG	O3'-P	10.82	1.74	1.61
54	E8	12	DT	O3'-P	10.82	1.74	1.61
66	F9	15	DG	O3'-P	10.82	1.74	1.61
71	G2	12	DA	O3'-P	10.82	1.74	1.61
95	I5	40	DT	O3'-P	10.82	1.74	1.61
68	FC	3	DT	O3'-P	10.82	1.74	1.61
78	GA	2	DG	O3'-P	10.82	1.74	1.61
80	GD	19	DG	O3'-P	10.82	1.74	1.61
84	H5	35	DC	O3'-P	10.82	1.74	1.61
96	I6	11	DT	O3'-P	10.82	1.74	1.61
156	O2	34	DT	O3'-P	10.82	1.74	1.61
173	PA	10	DC	O3'-P	10.82	1.74	1.61
191	RA	5	DG	O3'-P	10.82	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
197	S7	4	DC	O3'-P	10.82	1.74	1.61
232	W7	10	DT	O3'-P	10.82	1.74	1.61
11	AB	328	DG	O3'-P	10.81	1.74	1.61
11	AB	556	DC	O3'-P	10.81	1.74	1.61
11	AB	1977	DG	O3'-P	10.81	1.74	1.61
11	AB	2381	DT	O3'-P	10.81	1.74	1.61
11	AB	2391	DG	O3'-P	10.81	1.74	1.61
11	AB	2625	DT	O3'-P	10.81	1.74	1.61
11	AB	2544	DG	O3'-P	10.81	1.74	1.61
11	AB	3869	DT	O3'-P	10.81	1.74	1.61
11	AB	4706	DC	O3'-P	10.81	1.74	1.61
11	AB	5848	DG	O3'-P	10.81	1.74	1.61
26	C1	5	DT	O3'-P	10.81	1.74	1.61
37	D1	2	DT	O3'-P	10.81	1.74	1.61
52	E6	22	DC	O3'-P	10.81	1.74	1.61
70	G1	6	DG	O3'-P	10.81	1.74	1.61
208	T9	8	DA	O3'-P	10.81	1.74	1.61
11	AB	4277	DG	O3'-P	10.81	1.74	1.61
11	AB	4392	DT	O3'-P	10.81	1.74	1.61
11	AB	4574	DG	O3'-P	10.81	1.74	1.61
11	AB	4966	DG	O3'-P	10.81	1.74	1.61
11	AB	5593	DG	O3'-P	10.81	1.74	1.61
11	AB	5616	DT	O3'-P	10.81	1.74	1.61
11	AB	5636	DG	O3'-P	10.81	1.74	1.61
11	AB	6337	DG	O3'-P	10.81	1.74	1.61
11	AB	6873	DG	O3'-P	10.81	1.74	1.61
32	C8	25	DG	O3'-P	10.81	1.74	1.61
65	F8	9	DC	O3'-P	10.81	1.74	1.61
148	N5	13	DT	O3'-P	10.81	1.74	1.61
200	SA	12	DG	O3'-P	10.81	1.74	1.61
78	GA	12	DG	O3'-P	10.81	1.74	1.61
88	H9	11	DG	O3'-P	10.81	1.74	1.61
111	JA	12	DG	O3'-P	10.81	1.74	1.61
156	O2	43	DT	O3'-P	10.81	1.74	1.61
192	RC	17	DT	O3'-P	10.81	1.74	1.61
200	SA	26	DG	O3'-P	10.81	1.74	1.61
212	U2	24	DA	O3'-P	10.81	1.74	1.61
232	W7	13	DT	O3'-P	10.81	1.74	1.61
233	W8	6	DT	O3'-P	10.81	1.74	1.61
2	A2	15	DT	O3'-P	10.81	1.74	1.61
11	AB	1455	DT	O3'-P	10.81	1.74	1.61
11	AB	1748	DT	O3'-P	10.81	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1978	DG	O3'-P	10.81	1.74	1.61
11	AB	2137	DT	O3'-P	10.81	1.74	1.61
11	AB	2559	DT	O3'-P	10.81	1.74	1.61
11	AB	4219	DC	O3'-P	10.81	1.74	1.61
11	AB	4937	DC	O3'-P	10.81	1.74	1.61
11	AB	5101	DC	O3'-P	10.81	1.74	1.61
11	AB	5550	DT	O3'-P	10.81	1.74	1.61
11	AB	5719	DG	O3'-P	10.81	1.74	1.61
11	AB	6099	DG	O3'-P	10.81	1.74	1.61
11	AB	6367	DT	O3'-P	10.81	1.74	1.61
11	AB	6700	DT	O3'-P	10.81	1.74	1.61
36	CD	6	DG	O3'-P	10.81	1.74	1.61
43	D8	12	DT	O3'-P	10.81	1.74	1.61
86	H7	22	DC	O3'-P	10.81	1.74	1.61
125	L1	23	DT	O3'-P	10.81	1.74	1.61
125	L1	49	DG	O3'-P	10.81	1.74	1.61
178	Q5	3	DC	O3'-P	10.81	1.74	1.61
109	J8	46	DA	O3'-P	10.81	1.74	1.61
119	K7	14	DA	O3'-P	10.81	1.74	1.61
127	L3	7	DT	O3'-P	10.81	1.74	1.61
141	M8	18	DC	O3'-P	10.81	1.74	1.61
154	NC	16	DT	O3'-P	10.81	1.74	1.61
160	O7	47	DG	O3'-P	10.81	1.74	1.61
159	O6	8	DC	O3'-P	10.81	1.74	1.61
174	PC	11	DG	O3'-P	10.81	1.74	1.61
187	R5	33	DC	O3'-P	10.81	1.74	1.61
192	RC	11	DG	O3'-P	10.81	1.74	1.61
211	TD	33	DT	O3'-P	10.81	1.74	1.61
219	UC	15	DT	O3'-P	10.81	1.74	1.61
11	AB	1001	DT	O3'-P	10.81	1.74	1.61
11	AB	3542	DG	O3'-P	10.81	1.74	1.61
4	A4	30	DT	O3'-P	10.81	1.74	1.61
11	AB	423	DG	O3'-P	10.81	1.74	1.61
11	AB	426	DG	O3'-P	10.81	1.74	1.61
11	AB	2756	DT	O3'-P	10.81	1.74	1.61
11	AB	3475	DG	O3'-P	10.81	1.74	1.61
11	AB	555	DC	O3'-P	10.81	1.74	1.61
11	AB	1412	DT	O3'-P	10.81	1.74	1.61
11	AB	1673	DC	O3'-P	10.81	1.74	1.61
11	AB	1898	DG	O3'-P	10.81	1.74	1.61
11	AB	2394	DT	O3'-P	10.81	1.74	1.61
11	AB	2770	DC	O3'-P	10.81	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3580	DA	O3'-P	10.81	1.74	1.61
11	AB	4031	DT	O3'-P	10.81	1.74	1.61
11	AB	4169	DT	O3'-P	10.81	1.74	1.61
11	AB	4538	DG	O3'-P	10.81	1.74	1.61
11	AB	5036	DG	O3'-P	10.81	1.74	1.61
11	AB	5180	DT	O3'-P	10.81	1.74	1.61
11	AB	5198	DC	O3'-P	10.81	1.74	1.61
11	AB	6189	DG	O3'-P	10.81	1.74	1.61
11	AB	6761	DT	O3'-P	10.81	1.74	1.61
11	AB	7083	DG	O3'-P	10.81	1.74	1.61
31	C7	30	DG	O3'-P	10.81	1.74	1.61
47	DD	29	DG	O3'-P	10.81	1.74	1.61
51	E5	32	DT	O3'-P	10.81	1.74	1.61
73	G5	1	DC	O3'-P	10.81	1.74	1.61
88	H9	14	DG	O3'-P	10.81	1.74	1.61
88	H9	22	DG	O3'-P	10.81	1.74	1.61
97	I7	31	DG	O3'-P	10.81	1.74	1.61
113	JD	34	DT	O3'-P	10.81	1.74	1.61
143	MA	26	DC	O3'-P	10.81	1.74	1.61
149	N6	49	DG	O3'-P	10.81	1.74	1.61
161	O8	53	DG	O3'-P	10.81	1.74	1.61
195	S3	7	DG	O3'-P	10.81	1.74	1.61
206	T7	54	DG	O3'-P	10.81	1.74	1.61
227	VA	13	DT	O3'-P	10.81	1.74	1.61
8	A8	8	DT	O3'-P	10.80	1.74	1.61
11	AB	1671	DT	O3'-P	10.81	1.74	1.61
11	AB	2231	DT	O3'-P	10.81	1.74	1.61
11	AB	2311	DG	O3'-P	10.81	1.74	1.61
11	AB	3367	DT	O3'-P	10.81	1.74	1.61
11	AB	3798	DT	O3'-P	10.81	1.74	1.61
11	AB	5125	DT	O3'-P	10.81	1.74	1.61
30	C6	44	DG	O3'-P	10.81	1.74	1.61
31	C7	26	DT	O3'-P	10.81	1.74	1.61
48	E1	17	DC	O3'-P	10.81	1.74	1.61
184	QD	4	DC	O3'-P	10.81	1.74	1.61
11	AB	163	DT	O3'-P	10.80	1.74	1.61
11	AB	917	DT	O3'-P	10.80	1.74	1.61
11	AB	969	DG	O3'-P	10.80	1.74	1.61
11	AB	927	DG	O3'-P	10.80	1.74	1.61
11	AB	1027	DC	O3'-P	10.80	1.74	1.61
11	AB	1892	DC	O3'-P	10.80	1.74	1.61
11	AB	1896	DC	O3'-P	10.80	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	ED	15	DT	O3'-P	10.81	1.74	1.61
108	J7	30	DG	O3'-P	10.81	1.74	1.61
11	AB	2039	DT	O3'-P	10.80	1.74	1.61
11	AB	2257	DT	O3'-P	10.80	1.74	1.61
11	AB	2373	DG	O3'-P	10.80	1.74	1.61
11	AB	2768	DT	O3'-P	10.80	1.74	1.61
11	AB	3201	DT	O3'-P	10.80	1.74	1.61
11	AB	3969	DT	O3'-P	10.80	1.74	1.61
11	AB	3978	DT	O3'-P	10.80	1.74	1.61
11	AB	4038	DG	O3'-P	10.80	1.74	1.61
11	AB	4206	DT	O3'-P	10.80	1.74	1.61
11	AB	5342	DT	O3'-P	10.80	1.74	1.61
11	AB	6368	DT	O3'-P	10.80	1.74	1.61
11	AB	6728	DG	O3'-P	10.80	1.74	1.61
11	AB	7065	DG	O3'-P	10.80	1.74	1.61
109	J8	33	DG	O3'-P	10.80	1.74	1.61
11	AB	6704	DT	O3'-P	10.80	1.74	1.61
11	AB	6926	DA	O3'-P	10.80	1.74	1.61
11	AB	6971	DT	O3'-P	10.80	1.74	1.61
26	C1	1	DC	O3'-P	10.80	1.74	1.61
14	B1	32	DG	O3'-P	10.80	1.74	1.61
22	B9	48	DT	O3'-P	10.80	1.74	1.61
28	C3	9	DT	O3'-P	10.80	1.74	1.61
48	E1	24	DC	O3'-P	10.80	1.74	1.61
60	F2	10	DT	O3'-P	10.80	1.74	1.61
85	H6	2	DT	O3'-P	10.80	1.74	1.61
87	H8	11	DC	O3'-P	10.80	1.74	1.61
91	HD	25	DG	O3'-P	10.80	1.74	1.61
113	JD	20	DT	O3'-P	10.80	1.74	1.61
150	N7	11	DC	O3'-P	10.80	1.74	1.61
152	N9	6	DT	O3'-P	10.80	1.74	1.61
155	ND	13	DG	O3'-P	10.80	1.74	1.61
162	O9	19	DT	O3'-P	10.80	1.74	1.61
197	S7	12	DC	O3'-P	10.80	1.74	1.61
202	SD	15	DG	O3'-P	10.80	1.74	1.61
211	TD	34	DT	O3'-P	10.80	1.74	1.61
229	VD	7	DG	O3'-P	10.80	1.74	1.61
3	A3	13	DG	O3'-P	10.80	1.74	1.61
11	AB	283	DT	O3'-P	10.80	1.74	1.61
11	AB	2885	DG	O3'-P	10.80	1.74	1.61
11	AB	4227	DG	O3'-P	10.80	1.74	1.61
11	AB	4276	DG	O3'-P	10.80	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4454	DG	O3'-P	10.80	1.74	1.61
11	AB	7007	DT	O3'-P	10.80	1.74	1.61
77	G9	18	DG	O3'-P	10.80	1.74	1.61
11	AB	4607	DG	O3'-P	10.80	1.74	1.61
11	AB	4731	DG	O3'-P	10.80	1.74	1.61
11	AB	5201	DA	O3'-P	10.80	1.74	1.61
196	S5	13	DG	O3'-P	10.80	1.74	1.61
11	AB	4959	DG	O3'-P	10.80	1.74	1.61
11	AB	4971	DG	O3'-P	10.80	1.74	1.61
11	AB	5751	DT	O3'-P	10.80	1.74	1.61
11	AB	6117	DC	O3'-P	10.80	1.74	1.61
11	AB	6143	DT	O3'-P	10.80	1.74	1.61
11	AB	6729	DG	O3'-P	10.80	1.74	1.61
11	AB	7016	DG	O3'-P	10.80	1.74	1.61
33	C9	1	DG	O3'-P	10.80	1.74	1.61
37	D1	5	DT	O3'-P	10.80	1.74	1.61
185	R2	19	DG	O3'-P	10.80	1.74	1.61
44	D9	27	DG	O3'-P	10.80	1.74	1.61
66	F9	11	DA	O3'-P	10.80	1.74	1.61
71	G2	19	DA	O3'-P	10.80	1.74	1.61
72	G3	14	DG	O3'-P	10.80	1.74	1.61
88	H9	16	DG	O3'-P	10.80	1.74	1.61
98	I8	16	DT	O3'-P	10.80	1.74	1.61
101	IC	5	DG	O3'-P	10.80	1.74	1.61
103	J1	24	DG	O3'-P	10.80	1.74	1.61
114	K1	20	DT	O3'-P	10.80	1.74	1.61
119	K7	3	DG	O3'-P	10.80	1.74	1.61
134	LC	18	DG	O3'-P	10.80	1.74	1.61
160	O7	20	DC	O3'-P	10.80	1.74	1.61
182	QA	12	DT	O3'-P	10.80	1.74	1.61
213	U3	5	DG	O3'-P	10.80	1.74	1.61
188	R7	14	DG	O3'-P	10.80	1.74	1.61
203	T2	13	DG	O3'-P	10.80	1.74	1.61
204	T3	8	DC	O3'-P	10.80	1.74	1.61
11	AB	5775	DT	O3'-P	10.80	1.74	1.61
11	AB	127	DC	O3'-P	10.80	1.74	1.61
11	AB	523	DA	O3'-P	10.80	1.74	1.61
11	AB	542	DT	O3'-P	10.80	1.74	1.61
11	AB	638	DG	O3'-P	10.80	1.74	1.61
11	AB	1143	DG	O3'-P	10.80	1.74	1.61
11	AB	1572	DG	O3'-P	10.80	1.74	1.61
32	C8	46	DG	O3'-P	10.80	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	D1	24	DC	O3'-P	10.80	1.74	1.61
11	AB	966	DT	O3'-P	10.80	1.74	1.61
11	AB	2149	DT	O3'-P	10.80	1.74	1.61
11	AB	2232	DT	O3'-P	10.80	1.74	1.61
11	AB	2355	DG	O3'-P	10.80	1.74	1.61
58	ED	31	DG	O3'-P	10.80	1.74	1.61
136	M2	3	DT	O3'-P	10.80	1.74	1.61
217	U9	20	DG	O3'-P	10.80	1.74	1.61
11	AB	2612	DT	O3'-P	10.80	1.74	1.61
11	AB	3473	DG	O3'-P	10.80	1.74	1.61
11	AB	4390	DC	O3'-P	10.80	1.74	1.61
11	AB	4737	DT	O3'-P	10.80	1.74	1.61
11	AB	4957	DT	O3'-P	10.80	1.74	1.61
11	AB	4980	DG	O3'-P	10.80	1.74	1.61
11	AB	5253	DG	O3'-P	10.80	1.74	1.61
11	AB	5288	DG	O3'-P	10.80	1.74	1.61
11	AB	5495	DT	O3'-P	10.80	1.74	1.61
11	AB	6360	DT	O3'-P	10.80	1.74	1.61
38	D2	12	DC	O3'-P	10.80	1.74	1.61
84	H5	6	DG	O3'-P	10.80	1.74	1.61
99	I9	24	DG	O3'-P	10.80	1.74	1.61
183	QC	10	DG	O3'-P	10.80	1.74	1.61
196	S5	31	DT	O3'-P	10.80	1.74	1.61
11	AB	5969	DT	O3'-P	10.80	1.74	1.61
11	AB	6042	DG	O3'-P	10.80	1.74	1.61
11	AB	6468	DT	O3'-P	10.80	1.74	1.61
23	BA	8	DC	O3'-P	10.80	1.74	1.61
122	KA	38	DT	O3'-P	10.80	1.74	1.61
30	C6	11	DC	O3'-P	10.80	1.74	1.61
34	CA	6	DT	O3'-P	10.80	1.74	1.61
48	E1	22	DT	O3'-P	10.80	1.74	1.61
62	F5	45	DT	O3'-P	10.80	1.74	1.61
141	M8	22	DT	O3'-P	10.80	1.74	1.61
145	MD	39	DC	O3'-P	10.80	1.74	1.61
158	O5	8	DT	O3'-P	10.80	1.74	1.61
180	Q8	5	DG	O3'-P	10.80	1.74	1.61
188	R7	8	DG	O3'-P	10.80	1.74	1.61
209	TA	35	DT	O3'-P	10.80	1.74	1.61
206	T7	9	DG	O3'-P	10.80	1.74	1.61
210	TC	7	DT	O3'-P	10.80	1.74	1.61
225	V8	18	DT	O3'-P	10.80	1.74	1.61
11	AB	1104	DG	O3'-P	10.80	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2307	DT	O3'-P	10.80	1.74	1.61
11	AB	3054	DT	O3'-P	10.80	1.74	1.61
11	AB	5954	DG	O3'-P	10.80	1.74	1.61
50	E3	8	DT	O3'-P	10.80	1.74	1.61
90	HC	7	DG	O3'-P	10.80	1.74	1.61
94	I3	25	DT	O3'-P	10.80	1.74	1.61
176	Q2	17	DT	O3'-P	10.80	1.74	1.61
193	RD	21	DT	O3'-P	10.80	1.74	1.61
5	A5	30	DC	O3'-P	10.79	1.74	1.61
11	AB	999	DG	O3'-P	10.79	1.74	1.61
11	AB	1214	DA	O3'-P	10.79	1.74	1.61
11	AB	1439	DT	O3'-P	10.79	1.74	1.61
11	AB	3729	DG	O3'-P	10.79	1.74	1.61
11	AB	4074	DG	O3'-P	10.79	1.74	1.61
11	AB	4902	DG	O3'-P	10.79	1.74	1.61
11	AB	4915	DT	O3'-P	10.79	1.74	1.61
11	AB	5498	DC	O3'-P	10.79	1.74	1.61
11	AB	6146	DG	O3'-P	10.79	1.74	1.61
11	AB	6223	DG	O3'-P	10.79	1.74	1.61
11	AB	6833	DG	O3'-P	10.79	1.74	1.61
29	C5	8	DT	O3'-P	10.79	1.74	1.61
37	D1	38	DT	O3'-P	10.79	1.74	1.61
80	GD	12	DG	O3'-P	10.79	1.74	1.61
81	H1	19	DT	O3'-P	10.79	1.74	1.61
95	I5	23	DT	O3'-P	10.79	1.74	1.61
98	I8	8	DA	O3'-P	10.79	1.74	1.61
100	IA	12	DT	O3'-P	10.79	1.74	1.61
112	JC	1	DG	O3'-P	10.80	1.74	1.61
130	L7	3	DT	O3'-P	10.80	1.74	1.61
178	Q5	29	DG	O3'-P	10.80	1.74	1.61
146	N2	4	DT	O3'-P	10.79	1.74	1.61
158	O5	50	DG	O3'-P	10.79	1.74	1.61
219	UC	16	DT	O3'-P	10.79	1.74	1.61
235	WD	7	DA	O3'-P	10.79	1.74	1.61
8	A8	14	DT	O3'-P	10.79	1.74	1.61
11	AB	65	DT	O3'-P	10.79	1.74	1.61
11	AB	374	DG	O3'-P	10.79	1.74	1.61
11	AB	441	DG	O3'-P	10.79	1.74	1.61
11	AB	581	DG	O3'-P	10.79	1.74	1.61
108	J7	50	DC	O3'-P	10.79	1.74	1.61
11	AB	485	DT	O3'-P	10.79	1.74	1.61
11	AB	554	DC	O3'-P	10.79	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1071	DT	O3'-P	10.79	1.74	1.61
11	AB	2262	DG	O3'-P	10.79	1.74	1.61
11	AB	2395	DT	O3'-P	10.79	1.74	1.61
11	AB	2856	DG	O3'-P	10.79	1.74	1.61
11	AB	4996	DG	O3'-P	10.79	1.74	1.61
11	AB	5414	DT	O3'-P	10.79	1.74	1.61
11	AB	6695	DC	O3'-P	10.79	1.74	1.61
133	LA	2	DG	O3'-P	10.79	1.74	1.61
145	MD	17	DT	O3'-P	10.79	1.74	1.61
175	PD	10	DC	O3'-P	10.79	1.74	1.61
176	Q2	20	DT	O3'-P	10.79	1.74	1.61
207	T8	10	DT	O3'-P	10.79	1.74	1.61
11	AB	1482	DT	O3'-P	10.79	1.74	1.61
11	AB	1983	DG	O3'-P	10.79	1.74	1.61
11	AB	2287	DT	O3'-P	10.79	1.74	1.61
11	AB	2369	DT	O3'-P	10.79	1.74	1.61
11	AB	2696	DG	O3'-P	10.79	1.74	1.61
11	AB	3663	DC	O3'-P	10.79	1.74	1.61
11	AB	4064	DC	O3'-P	10.79	1.74	1.61
11	AB	4087	DG	O3'-P	10.79	1.74	1.61
11	AB	4090	DG	O3'-P	10.79	1.74	1.61
11	AB	4099	DG	O3'-P	10.79	1.74	1.61
11	AB	4193	DC	O3'-P	10.79	1.74	1.61
11	AB	4248	DG	O3'-P	10.79	1.74	1.61
11	AB	4309	DT	O3'-P	10.79	1.74	1.61
11	AB	6354	DC	O3'-P	10.79	1.74	1.61
11	AB	7196	DG	O3'-P	10.79	1.74	1.61
108	J7	34	DG	O3'-P	10.79	1.74	1.61
11	AB	4496	DG	O3'-P	10.79	1.74	1.61
11	AB	4907	DA	O3'-P	10.79	1.74	1.61
17	B4	7	DT	O3'-P	10.79	1.74	1.61
104	J2	4	DC	O3'-P	10.79	1.74	1.61
11	AB	4936	DC	O3'-P	10.79	1.74	1.61
11	AB	5432	DT	O3'-P	10.79	1.74	1.61
11	AB	5736	DT	O3'-P	10.79	1.74	1.61
11	AB	5835	DT	O3'-P	10.79	1.74	1.61
11	AB	6087	DG	O3'-P	10.79	1.74	1.61
74	G6	16	DT	O3'-P	10.79	1.74	1.61
82	H2	26	DT	O3'-P	10.79	1.74	1.61
102	ID	27	DT	O3'-P	10.79	1.74	1.61
126	L2	53	DT	O3'-P	10.79	1.74	1.61
129	L6	14	DT	O3'-P	10.79	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
130	L7	55	DG	O3'-P	10.79	1.74	1.61
156	O2	11	DG	O3'-P	10.79	1.74	1.61
156	O2	30	DC	O3'-P	10.79	1.74	1.61
159	O6	12	DT	O3'-P	10.79	1.74	1.61
238	X9	21	DA	O3'-P	10.79	1.74	1.61
202	SD	29	DT	O3'-P	10.79	1.74	1.61
222	V3	24	DG	O3'-P	10.79	1.74	1.61
230	W3	37	DG	O3'-P	10.79	1.74	1.61
6	A6	5	DG	O3'-P	10.79	1.74	1.61
9	A9	12	DT	O3'-P	10.79	1.74	1.61
11	AB	296	DT	O3'-P	10.79	1.74	1.61
11	AB	516	DC	O3'-P	10.79	1.74	1.61
11	AB	1759	DT	O3'-P	10.79	1.74	1.61
11	AB	3060	DT	O3'-P	10.79	1.74	1.61
11	AB	3264	DT	O3'-P	10.79	1.74	1.61
11	AB	342	DA	O3'-P	10.79	1.74	1.61
11	AB	641	DG	O3'-P	10.79	1.74	1.61
196	S5	6	DA	O3'-P	10.79	1.74	1.61
11	AB	930	DG	O3'-P	10.79	1.74	1.61
11	AB	1923	DC	O3'-P	10.79	1.74	1.61
11	AB	2118	DG	O3'-P	10.79	1.74	1.61
213	U3	24	DA	O3'-P	10.79	1.74	1.61
11	AB	2594	DG	O3'-P	10.79	1.74	1.61
11	AB	3151	DG	O3'-P	10.79	1.74	1.61
11	AB	3292	DG	O3'-P	10.79	1.74	1.61
11	AB	3517	DG	O3'-P	10.79	1.74	1.61
11	AB	4407	DT	O3'-P	10.79	1.74	1.61
11	AB	4713	DT	O3'-P	10.79	1.74	1.61
11	AB	5016	DG	O3'-P	10.79	1.74	1.61
11	AB	5065	DG	O3'-P	10.79	1.74	1.61
11	AB	6154	DG	O3'-P	10.79	1.74	1.61
37	D1	9	DC	O3'-P	10.79	1.74	1.61
11	AB	5254	DC	O3'-P	10.79	1.74	1.61
11	AB	5747	DT	O3'-P	10.79	1.74	1.61
11	AB	5901	DC	O3'-P	10.79	1.74	1.61
11	AB	6134	DC	O3'-P	10.79	1.74	1.61
37	D1	17	DG	O3'-P	10.79	1.74	1.61
53	E7	21	DT	O3'-P	10.79	1.74	1.61
78	GA	15	DA	O3'-P	10.79	1.74	1.61
83	H3	17	DT	O3'-P	10.79	1.74	1.61
93	I2	27	DT	O3'-P	10.79	1.74	1.61
95	I5	11	DG	O3'-P	10.79	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
144	MC	9	DG	O3'-P	10.79	1.74	1.61
126	L2	42	DC	O3'-P	10.79	1.74	1.61
145	MD	31	DA	O3'-P	10.79	1.74	1.61
160	O7	4	DG	O3'-P	10.79	1.74	1.61
167	P3	13	DT	O3'-P	10.79	1.74	1.61
175	PD	20	DG	O3'-P	10.79	1.74	1.61
231	W5	5	DG	O3'-P	10.79	1.74	1.61
6	A6	9	DG	O3'-P	10.79	1.74	1.61
11	AB	2556	DG	O3'-P	10.79	1.74	1.61
11	AB	3401	DT	O3'-P	10.79	1.74	1.61
11	AB	3584	DG	O3'-P	10.79	1.74	1.61
11	AB	3806	DG	O3'-P	10.79	1.74	1.61
11	AB	4809	DG	O3'-P	10.79	1.74	1.61
85	H6	8	DA	O3'-P	10.79	1.74	1.61
106	J5	27	DG	O3'-P	10.79	1.74	1.61
1	A1	15	DG	O3'-P	10.78	1.74	1.61
7	A7	25	DT	O3'-P	10.78	1.74	1.61
11	AB	1519	DG	O3'-P	10.79	1.74	1.61
11	AB	2273	DG	O3'-P	10.79	1.74	1.61
11	AB	2351	DT	O3'-P	10.79	1.74	1.61
11	AB	2443	DT	O3'-P	10.79	1.74	1.61
11	AB	2883	DG	O3'-P	10.79	1.74	1.61
11	AB	3882	DT	O3'-P	10.79	1.74	1.61
11	AB	4320	DT	O3'-P	10.78	1.74	1.61
11	AB	5136	DC	O3'-P	10.79	1.74	1.61
82	H2	21	DG	O3'-P	10.79	1.74	1.61
129	L6	20	DT	O3'-P	10.79	1.74	1.61
11	AB	6027	DA	O3'-P	10.78	1.74	1.61
11	AB	6920	DT	O3'-P	10.78	1.74	1.61
44	D9	17	DG	O3'-P	10.79	1.74	1.61
94	I3	41	DT	O3'-P	10.79	1.74	1.61
95	I5	25	DT	O3'-P	10.79	1.74	1.61
122	KA	40	DC	O3'-P	10.79	1.74	1.61
140	M7	16	DG	O3'-P	10.79	1.74	1.61
170	P7	19	DT	O3'-P	10.79	1.74	1.61
184	QD	8	DT	O3'-P	10.79	1.74	1.61
184	QD	29	DT	O3'-P	10.79	1.74	1.61
190	R9	3	DT	O3'-P	10.79	1.74	1.61
209	TA	33	DG	O3'-P	10.79	1.74	1.61
192	RC	18	DT	O3'-P	10.78	1.74	1.61
202	SD	14	DG	O3'-P	10.78	1.74	1.61
225	V8	20	DG	O3'-P	10.78	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
230	W3	33	DT	O3'-P	10.78	1.74	1.61
11	AB	1778	DT	O3'-P	10.78	1.74	1.61
11	AB	2240	DT	O3'-P	10.78	1.74	1.61
11	AB	2402	DT	O3'-P	10.78	1.74	1.61
11	AB	3802	DA	O3'-P	10.78	1.74	1.61
92	I1	23	DG	O3'-P	10.78	1.74	1.61
11	AB	1010	DG	O3'-P	10.78	1.74	1.61
11	AB	1620	DT	O3'-P	10.78	1.74	1.61
11	AB	2153	DT	O3'-P	10.78	1.74	1.61
11	AB	3091	DT	O3'-P	10.78	1.74	1.61
11	AB	3609	DA	O3'-P	10.78	1.74	1.61
11	AB	4080	DT	O3'-P	10.78	1.74	1.61
24	BC	39	DG	O3'-P	10.78	1.74	1.61
11	AB	4973	DA	O3'-P	10.78	1.74	1.61
11	AB	5764	DG	O3'-P	10.78	1.74	1.61
11	AB	5782	DG	O3'-P	10.78	1.74	1.61
11	AB	5838	DT	O3'-P	10.78	1.74	1.61
11	AB	7231	DG	O3'-P	10.78	1.74	1.61
23	BA	26	DT	O3'-P	10.78	1.74	1.61
41	D6	18	DG	O3'-P	10.78	1.74	1.61
136	M2	6	DG	O3'-P	10.78	1.74	1.61
158	O5	35	DA	O3'-P	10.78	1.74	1.61
160	O7	42	DG	O3'-P	10.78	1.74	1.61
167	P3	9	DG	O3'-P	10.78	1.74	1.61
172	P9	19	DG	O3'-P	10.78	1.74	1.61
210	TC	11	DA	O3'-P	10.78	1.74	1.61
11	AB	6026	DT	O3'-P	10.78	1.74	1.61
11	AB	6375	DT	O3'-P	10.78	1.74	1.61
11	AB	6451	DT	O3'-P	10.78	1.74	1.61
19	B6	4	DT	O3'-P	10.78	1.74	1.61
20	B7	9	DG	O3'-P	10.78	1.74	1.61
26	C1	7	DT	O3'-P	10.78	1.74	1.61
30	C6	4	DT	O3'-P	10.78	1.74	1.61
43	D8	19	DT	O3'-P	10.78	1.74	1.61
54	E8	5	DG	O3'-P	10.78	1.74	1.61
54	E8	9	DT	O3'-P	10.78	1.74	1.61
70	G1	5	DG	O3'-P	10.78	1.74	1.61
74	G6	35	DG	O3'-P	10.78	1.74	1.61
76	G8	7	DG	O3'-P	10.78	1.74	1.61
82	H2	47	DG	O3'-P	10.78	1.74	1.61
103	J1	8	DG	O3'-P	10.78	1.74	1.61
110	J9	15	DG	O3'-P	10.78	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
156	O2	45	DG	O3'-P	10.78	1.74	1.61
189	R8	22	DA	O3'-P	10.78	1.74	1.61
197	S7	6	DG	O3'-P	10.78	1.74	1.61
2	A2	11	DG	O3'-P	10.78	1.74	1.61
1	A1	1	DT	O3'-P	10.78	1.74	1.61
5	A5	38	DG	O3'-P	10.78	1.74	1.61
12	AC	6	DA	O3'-P	10.78	1.74	1.61
11	AB	204	DG	O3'-P	10.78	1.74	1.61
11	AB	341	DT	O3'-P	10.78	1.74	1.61
11	AB	1009	DG	O3'-P	10.78	1.74	1.61
11	AB	1113	DG	O3'-P	10.78	1.74	1.61
11	AB	1474	DC	O3'-P	10.78	1.74	1.61
11	AB	2228	DA	O3'-P	10.78	1.74	1.61
11	AB	2550	DG	O3'-P	10.78	1.74	1.61
11	AB	3873	DT	O3'-P	10.78	1.74	1.61
11	AB	4421	DG	O3'-P	10.78	1.74	1.61
37	D1	36	DG	O3'-P	10.78	1.74	1.61
39	D3	17	DT	O3'-P	10.78	1.74	1.61
120	K8	16	DA	O3'-P	10.78	1.74	1.61
11	AB	4466	DG	O3'-P	10.78	1.74	1.61
11	AB	5814	DG	O3'-P	10.78	1.74	1.61
11	AB	5907	DG	O3'-P	10.78	1.74	1.61
22	B9	13	DG	O3'-P	10.78	1.74	1.61
44	D9	26	DG	O3'-P	10.78	1.74	1.61
74	G6	21	DG	O3'-P	10.78	1.74	1.61
79	GC	4	DG	O3'-P	10.78	1.74	1.61
82	H2	5	DG	O3'-P	10.78	1.74	1.61
93	I2	30	DG	O3'-P	10.78	1.74	1.61
95	I5	32	DG	O3'-P	10.78	1.74	1.61
114	K1	3	DT	O3'-P	10.78	1.74	1.61
195	S3	5	DG	O3'-P	10.78	1.74	1.61
4	A4	32	DT	O3'-P	10.78	1.74	1.61
11	AB	2524	DG	O3'-P	10.78	1.74	1.61
11	AB	5923	DG	O3'-P	10.78	1.74	1.61
6	A6	25	DT	O3'-P	10.78	1.74	1.61
7	A7	39	DT	O3'-P	10.78	1.74	1.61
11	AB	11	DT	O3'-P	10.78	1.74	1.61
11	AB	291	DT	O3'-P	10.78	1.74	1.61
11	AB	464	DT	O3'-P	10.78	1.74	1.61
11	AB	706	DA	O3'-P	10.78	1.74	1.61
11	AB	981	DT	O3'-P	10.78	1.74	1.61
11	AB	1055	DT	O3'-P	10.78	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1089	DG	O3'-P	10.78	1.74	1.61
11	AB	1480	DG	O3'-P	10.78	1.74	1.61
11	AB	2060	DT	O3'-P	10.78	1.74	1.61
11	AB	2561	DT	O3'-P	10.78	1.74	1.61
11	AB	2616	DA	O3'-P	10.78	1.74	1.61
11	AB	3204	DT	O3'-P	10.78	1.74	1.61
11	AB	4399	DG	O3'-P	10.78	1.74	1.61
11	AB	6243	DG	O3'-P	10.78	1.74	1.61
129	L6	10	DT	O3'-P	10.78	1.74	1.61
132	L9	1	DT	O3'-P	10.78	1.74	1.61
206	T7	47	DT	O3'-P	10.78	1.74	1.61
11	AB	4741	DT	O3'-P	10.78	1.74	1.61
11	AB	4935	DC	O3'-P	10.78	1.74	1.61
11	AB	5356	DT	O3'-P	10.78	1.74	1.61
11	AB	6054	DT	O3'-P	10.78	1.74	1.61
11	AB	6512	DT	O3'-P	10.78	1.74	1.61
11	AB	6770	DT	O3'-P	10.78	1.74	1.61
51	E5	11	DG	O3'-P	10.78	1.74	1.61
61	F3	24	DA	O3'-P	10.78	1.74	1.61
81	H1	9	DA	O3'-P	10.78	1.74	1.61
95	I5	33	DG	O3'-P	10.78	1.74	1.61
104	J2	3	DG	O3'-P	10.78	1.74	1.61
108	J7	37	DT	O3'-P	10.78	1.74	1.61
114	K1	16	DG	O3'-P	10.78	1.74	1.61
140	M7	13	DG	O3'-P	10.78	1.74	1.61
206	T7	2	DG	O3'-P	10.78	1.74	1.61
231	W5	6	DG	O3'-P	10.78	1.74	1.61
121	K9	22	DT	O3'-P	10.78	1.74	1.61
148	N5	17	DG	O3'-P	10.78	1.74	1.61
150	N7	13	DG	O3'-P	10.78	1.74	1.61
165	OD	4	DT	O3'-P	10.78	1.74	1.61
165	OD	18	DT	O3'-P	10.78	1.74	1.61
207	T8	22	DG	O3'-P	10.78	1.74	1.61
210	TC	5	DA	O3'-P	10.78	1.74	1.61
214	U5	31	DT	O3'-P	10.78	1.74	1.61
216	U8	18	DG	O3'-P	10.78	1.74	1.61
221	V2	19	DC	O3'-P	10.78	1.74	1.61
228	VC	2	DT	O3'-P	10.78	1.74	1.61
234	W9	2	DT	O3'-P	10.78	1.74	1.61
11	AB	1079	DT	O3'-P	10.77	1.74	1.61
11	AB	1606	DT	O3'-P	10.77	1.74	1.61
11	AB	1763	DT	O3'-P	10.77	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3048	DT	O3'-P	10.77	1.74	1.61
11	AB	5331	DT	O3'-P	10.77	1.74	1.61
11	AB	6624	DT	O3'-P	10.77	1.74	1.61
21	B8	13	DT	O3'-P	10.77	1.74	1.61
157	O3	16	DT	O3'-P	10.77	1.74	1.61
210	TC	15	DT	O3'-P	10.77	1.74	1.61
233	W8	18	DG	O3'-P	10.77	1.74	1.61
1	A1	49	DA	O3'-P	10.77	1.74	1.61
11	AB	321	DG	O3'-P	10.77	1.74	1.61
11	AB	1327	DA	O3'-P	10.77	1.74	1.61
11	AB	1452	DT	O3'-P	10.77	1.74	1.61
11	AB	1770	DG	O3'-P	10.77	1.74	1.61
11	AB	3985	DG	O3'-P	10.77	1.74	1.61
98	I8	6	DT	O3'-P	10.77	1.74	1.61
181	Q9	23	DT	O3'-P	10.77	1.74	1.61
11	AB	2006	DT	O3'-P	10.77	1.74	1.61
11	AB	2095	DG	O3'-P	10.77	1.74	1.61
156	O2	10	DG	O3'-P	10.77	1.74	1.61
221	V2	8	DT	O3'-P	10.77	1.74	1.61
11	AB	2328	DC	O3'-P	10.77	1.74	1.61
11	AB	3531	DT	O3'-P	10.77	1.74	1.61
11	AB	4000	DT	O3'-P	10.77	1.74	1.61
11	AB	4296	DG	O3'-P	10.77	1.74	1.61
11	AB	5090	DA	O3'-P	10.77	1.74	1.61
30	C6	36	DG	O3'-P	10.77	1.74	1.61
31	C7	24	DT	O3'-P	10.77	1.74	1.61
140	M7	8	DC	O3'-P	10.77	1.74	1.61
152	N9	21	DT	O3'-P	10.77	1.74	1.61
211	TD	19	DT	O3'-P	10.77	1.74	1.61
212	U2	6	DT	O3'-P	10.77	1.74	1.61
11	AB	4437	DG	O3'-P	10.77	1.74	1.61
11	AB	4654	DG	O3'-P	10.77	1.74	1.61
11	AB	5625	DA	O3'-P	10.77	1.74	1.61
33	C9	21	DT	O3'-P	10.77	1.74	1.61
238	X9	27	DT	O3'-P	10.77	1.74	1.61
11	AB	5718	DG	O3'-P	10.77	1.74	1.61
11	AB	5768	DT	O3'-P	10.77	1.74	1.61
11	AB	5895	DT	O3'-P	10.77	1.74	1.61
11	AB	6030	DG	O3'-P	10.77	1.74	1.61
11	AB	6090	DG	O3'-P	10.77	1.74	1.61
11	AB	6166	DA	O3'-P	10.77	1.74	1.61
11	AB	6887	DC	O3'-P	10.77	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	7145	DG	O3'-P	10.77	1.74	1.61
15	B2	18	DT	O3'-P	10.77	1.74	1.61
28	C3	19	DG	O3'-P	10.77	1.74	1.61
58	ED	5	DT	O3'-P	10.77	1.74	1.61
32	C8	47	DG	O3'-P	10.77	1.74	1.61
34	CA	1	DT	O3'-P	10.77	1.74	1.61
48	E1	31	DA	O3'-P	10.77	1.74	1.61
80	GD	17	DT	O3'-P	10.77	1.74	1.61
90	HC	11	DA	O3'-P	10.77	1.74	1.61
101	IC	9	DT	O3'-P	10.77	1.74	1.61
107	J6	6	DT	O3'-P	10.77	1.74	1.61
119	K7	21	DG	O3'-P	10.77	1.74	1.61
130	L7	46	DT	O3'-P	10.77	1.74	1.61
132	L9	3	DT	O3'-P	10.77	1.74	1.61
152	N9	18	DG	O3'-P	10.77	1.74	1.61
158	O5	23	DT	O3'-P	10.77	1.74	1.61
159	O6	22	DA	O3'-P	10.77	1.74	1.61
172	P9	10	DT	O3'-P	10.77	1.74	1.61
172	P9	24	DT	O3'-P	10.77	1.74	1.61
173	PA	22	DT	O3'-P	10.77	1.74	1.61
215	U7	6	DT	O3'-P	10.77	1.74	1.61
217	U9	18	DA	O3'-P	10.77	1.74	1.61
232	W7	17	DC	O3'-P	10.77	1.74	1.61
11	AB	300	DT	O3'-P	10.77	1.74	1.61
11	AB	364	DA	O3'-P	10.77	1.74	1.61
11	AB	432	DT	O3'-P	10.77	1.74	1.61
11	AB	477	DT	O3'-P	10.77	1.74	1.61
11	AB	1152	DG	O3'-P	10.77	1.74	1.61
11	AB	1363	DT	O3'-P	10.77	1.74	1.61
11	AB	1429	DG	O3'-P	10.77	1.74	1.61
11	AB	1667	DG	O3'-P	10.77	1.74	1.61
11	AB	1798	DG	O3'-P	10.77	1.74	1.61
11	AB	2222	DT	O3'-P	10.77	1.74	1.61
11	AB	3041	DT	O3'-P	10.77	1.74	1.61
11	AB	3529	DG	O3'-P	10.77	1.74	1.61
113	JD	30	DG	O3'-P	10.77	1.74	1.61
11	AB	3424	DG	O3'-P	10.77	1.74	1.61
11	AB	3598	DT	O3'-P	10.77	1.74	1.61
11	AB	3740	DT	O3'-P	10.77	1.74	1.61
11	AB	3871	DG	O3'-P	10.77	1.74	1.61
11	AB	4363	DT	O3'-P	10.77	1.74	1.61
11	AB	5174	DC	O3'-P	10.77	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6735	DC	O3'-P	10.77	1.74	1.61
19	B6	18	DT	O3'-P	10.77	1.74	1.61
43	D8	9	DG	O3'-P	10.77	1.74	1.61
46	DC	10	DT	O3'-P	10.77	1.74	1.61
50	E3	2	DG	O3'-P	10.77	1.74	1.61
106	J5	30	DG	O3'-P	10.77	1.74	1.61
11	AB	3886	DT	O3'-P	10.77	1.74	1.61
11	AB	4141	DG	O3'-P	10.77	1.74	1.61
11	AB	4381	DA	O3'-P	10.77	1.74	1.61
11	AB	4471	DG	O3'-P	10.77	1.74	1.61
11	AB	4732	DG	O3'-P	10.77	1.74	1.61
11	AB	5991	DC	O3'-P	10.77	1.74	1.61
11	AB	6047	DT	O3'-P	10.77	1.74	1.61
11	AB	6843	DT	O3'-P	10.77	1.74	1.61
27	C2	15	DA	O3'-P	10.77	1.74	1.61
57	EC	9	DG	O3'-P	10.77	1.74	1.61
101	IC	19	DG	O3'-P	10.77	1.74	1.61
39	D3	28	DG	O3'-P	10.77	1.74	1.61
60	F2	5	DG	O3'-P	10.77	1.74	1.61
69	FD	46	DG	O3'-P	10.77	1.74	1.61
105	J3	21	DT	O3'-P	10.77	1.74	1.61
115	K2	32	DT	O3'-P	10.77	1.74	1.61
214	U5	4	DA	O3'-P	10.77	1.74	1.61
75	G7	26	DG	O3'-P	10.77	1.74	1.61
117	K5	40	DG	O3'-P	10.77	1.74	1.61
139	M6	6	DT	O3'-P	10.77	1.74	1.61
156	O2	1	DT	O3'-P	10.77	1.74	1.61
171	P8	24	DT	O3'-P	10.77	1.74	1.61
176	Q2	12	DT	O3'-P	10.77	1.74	1.61
185	R2	4	DG	O3'-P	10.77	1.74	1.61
204	T3	36	DT	O3'-P	10.77	1.74	1.61
237	X7	19	DA	O3'-P	10.77	1.74	1.61
2	A2	20	DA	O3'-P	10.77	1.74	1.61
3	A3	18	DT	O3'-P	10.77	1.74	1.61
11	AB	1247	DC	O3'-P	10.77	1.74	1.61
11	AB	1669	DG	O3'-P	10.77	1.74	1.61
11	AB	2122	DG	O3'-P	10.77	1.74	1.61
11	AB	2296	DG	O3'-P	10.77	1.74	1.61
11	AB	3537	DT	O3'-P	10.77	1.74	1.61
11	AB	6905	DG	O3'-P	10.77	1.74	1.61
11	AB	3496	DA	O3'-P	10.77	1.74	1.61
11	AB	3853	DA	O3'-P	10.77	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4061	DG	O3'-P	10.77	1.74	1.61
11	AB	4139	DG	O3'-P	10.77	1.74	1.61
11	AB	4188	DG	O3'-P	10.77	1.74	1.61
11	AB	4226	DG	O3'-P	10.77	1.74	1.61
11	AB	6308	DG	O3'-P	10.77	1.74	1.61
82	H2	38	DG	O3'-P	10.77	1.74	1.61
227	VA	19	DG	O3'-P	10.77	1.74	1.61
11	AB	4154	DG	O3'-P	10.77	1.74	1.61
11	AB	5260	DG	O3'-P	10.77	1.74	1.61
11	AB	5548	DG	O3'-P	10.77	1.74	1.61
11	AB	6438	DG	O3'-P	10.77	1.74	1.61
11	AB	6918	DG	O3'-P	10.77	1.74	1.61
24	BC	11	DG	O3'-P	10.77	1.74	1.61
48	E1	11	DG	O3'-P	10.77	1.74	1.61
57	EC	15	DC	O3'-P	10.77	1.74	1.61
88	H9	20	DG	O3'-P	10.77	1.74	1.61
130	L7	59	DA	O3'-P	10.77	1.74	1.61
60	F2	33	DA	O3'-P	10.77	1.74	1.61
120	K8	20	DT	O3'-P	10.77	1.74	1.61
121	K9	29	DA	O3'-P	10.77	1.74	1.61
125	L1	39	DA	O3'-P	10.77	1.74	1.61
199	S9	20	DG	O3'-P	10.77	1.74	1.61
221	V2	26	DA	O3'-P	10.77	1.74	1.61
195	S3	2	DG	O3'-P	10.77	1.74	1.61
204	T3	24	DG	O3'-P	10.77	1.74	1.61
207	T8	11	DA	O3'-P	10.77	1.74	1.61
11	AB	8	DG	O3'-P	10.76	1.74	1.61
11	AB	55	DT	O3'-P	10.76	1.74	1.61
11	AB	531	DT	O3'-P	10.76	1.74	1.61
11	AB	742	DA	O3'-P	10.76	1.74	1.61
11	AB	2783	DT	O3'-P	10.76	1.74	1.61
11	AB	3070	DT	O3'-P	10.76	1.74	1.61
11	AB	3290	DA	O3'-P	10.76	1.74	1.61
11	AB	5483	DG	O3'-P	10.76	1.74	1.61
11	AB	5756	DG	O3'-P	10.76	1.74	1.61
11	AB	6997	DG	O3'-P	10.76	1.74	1.61
125	L1	12	DG	O3'-P	10.76	1.74	1.61
200	SA	11	DG	O3'-P	10.76	1.74	1.61
204	T3	6	DC	O3'-P	10.76	1.74	1.61
11	AB	461	DT	O3'-P	10.76	1.74	1.61
11	AB	780	DG	O3'-P	10.76	1.74	1.61
11	AB	1469	DG	O3'-P	10.76	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1535	DG	O3'-P	10.76	1.74	1.61
11	AB	1609	DT	O3'-P	10.76	1.74	1.61
11	AB	1868	DT	O3'-P	10.76	1.74	1.61
11	AB	2072	DG	O3'-P	10.76	1.74	1.61
11	AB	2470	DT	O3'-P	10.76	1.74	1.61
11	AB	3888	DG	O3'-P	10.76	1.74	1.61
38	D2	11	DG	O3'-P	10.76	1.74	1.61
11	AB	3093	DT	O3'-P	10.76	1.74	1.61
11	AB	3255	DT	O3'-P	10.76	1.74	1.61
11	AB	3642	DT	O3'-P	10.76	1.74	1.61
11	AB	5277	DG	O3'-P	10.76	1.74	1.61
11	AB	5617	DT	O3'-P	10.76	1.74	1.61
11	AB	6036	DT	O3'-P	10.76	1.74	1.61
11	AB	6440	DT	O3'-P	10.76	1.74	1.61
11	AB	6630	DG	O3'-P	10.76	1.74	1.61
11	AB	6705	DA	O3'-P	10.76	1.74	1.61
11	AB	7217	DG	O3'-P	10.76	1.74	1.61
49	E2	35	DT	O3'-P	10.76	1.74	1.61
54	E8	26	DG	O3'-P	10.76	1.74	1.61
63	F6	18	DT	O3'-P	10.76	1.74	1.61
69	FD	31	DG	O3'-P	10.76	1.74	1.61
77	G9	3	DT	O3'-P	10.76	1.74	1.61
96	I6	3	DG	O3'-P	10.76	1.74	1.61
116	K3	11	DT	O3'-P	10.76	1.74	1.61
109	J8	27	DG	O3'-P	10.76	1.74	1.61
115	K2	33	DT	O3'-P	10.76	1.74	1.61
123	KC	22	DG	O3'-P	10.76	1.74	1.61
131	L8	28	DT	O3'-P	10.76	1.74	1.61
132	L9	12	DG	O3'-P	10.76	1.74	1.61
143	MA	14	DG	O3'-P	10.76	1.74	1.61
143	MA	21	DC	O3'-P	10.76	1.74	1.61
152	N9	36	DT	O3'-P	10.76	1.74	1.61
153	NA	15	DG	O3'-P	10.76	1.74	1.61
156	O2	7	DA	O3'-P	10.76	1.74	1.61
186	R3	11	DG	O3'-P	10.76	1.74	1.61
216	U8	19	DG	O3'-P	10.76	1.74	1.61
3	A3	6	DA	O3'-P	10.76	1.74	1.61
8	A8	20	DA	O3'-P	10.76	1.74	1.61
11	AB	148	DA	O3'-P	10.76	1.74	1.61
11	AB	1366	DC	O3'-P	10.76	1.74	1.61
11	AB	1493	DG	O3'-P	10.76	1.74	1.61
11	AB	1776	DT	O3'-P	10.76	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2654	DG	O3'-P	10.76	1.74	1.61
11	AB	2894	DT	O3'-P	10.76	1.74	1.61
79	GC	17	DG	O3'-P	10.76	1.74	1.61
122	KA	47	DT	O3'-P	10.76	1.74	1.61
11	AB	20	DG	O3'-P	10.76	1.74	1.61
11	AB	457	DG	O3'-P	10.76	1.74	1.61
11	AB	1042	DT	O3'-P	10.76	1.74	1.61
11	AB	1284	DG	O3'-P	10.76	1.74	1.61
11	AB	1459	DG	O3'-P	10.76	1.74	1.61
11	AB	2037	DG	O3'-P	10.76	1.74	1.61
11	AB	2106	DG	O3'-P	10.76	1.74	1.61
11	AB	2339	DG	O3'-P	10.76	1.74	1.61
11	AB	2538	DG	O3'-P	10.76	1.74	1.61
11	AB	2750	DT	O3'-P	10.76	1.74	1.61
11	AB	3184	DA	O3'-P	10.76	1.74	1.61
11	AB	3190	DA	O3'-P	10.76	1.74	1.61
11	AB	3769	DG	O3'-P	10.76	1.74	1.61
11	AB	4063	DG	O3'-P	10.76	1.74	1.61
204	T3	3	DG	O3'-P	10.76	1.74	1.61
204	T3	17	DG	O3'-P	10.76	1.74	1.61
11	AB	4295	DG	O3'-P	10.76	1.74	1.61
11	AB	4493	DG	O3'-P	10.76	1.74	1.61
11	AB	7200	DA	O3'-P	10.76	1.74	1.61
113	JD	10	DG	O3'-P	10.76	1.74	1.61
145	MD	50	DC	O3'-P	10.76	1.74	1.61
183	QC	21	DG	O3'-P	10.76	1.74	1.61
214	U5	11	DT	O3'-P	10.76	1.74	1.61
11	AB	4580	DT	O3'-P	10.76	1.74	1.61
11	AB	4699	DT	O3'-P	10.76	1.74	1.61
11	AB	4786	DT	O3'-P	10.76	1.74	1.61
11	AB	5050	DG	O3'-P	10.76	1.74	1.61
11	AB	5389	DG	O3'-P	10.76	1.74	1.61
22	B9	39	DT	O3'-P	10.76	1.74	1.61
28	C3	18	DG	O3'-P	10.76	1.74	1.61
52	E6	10	DT	O3'-P	10.76	1.74	1.61
52	E6	30	DG	O3'-P	10.76	1.74	1.61
63	F6	11	DG	O3'-P	10.76	1.74	1.61
85	H6	34	DA	O3'-P	10.76	1.74	1.61
94	I3	32	DG	O3'-P	10.76	1.74	1.61
94	I3	47	DG	O3'-P	10.76	1.74	1.61
104	J2	26	DG	O3'-P	10.76	1.74	1.61
154	NC	34	DG	O3'-P	10.76	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
99	I9	25	DG	O3'-P	10.76	1.74	1.61
109	J8	53	DG	O3'-P	10.76	1.74	1.61
115	K2	20	DG	O3'-P	10.76	1.74	1.61
139	M6	4	DG	O3'-P	10.76	1.74	1.61
147	N3	4	DG	O3'-P	10.76	1.74	1.61
148	N5	25	DT	O3'-P	10.76	1.74	1.61
155	ND	1	DT	O3'-P	10.76	1.74	1.61
157	O3	18	DG	O3'-P	10.76	1.74	1.61
158	O5	5	DG	O3'-P	10.76	1.74	1.61
161	O8	29	DA	O3'-P	10.76	1.74	1.61
201	SC	5	DG	O3'-P	10.76	1.74	1.61
209	TA	16	DG	O3'-P	10.76	1.74	1.61
10	AA	17	DG	O3'-P	10.76	1.74	1.61
11	AB	1422	DT	O3'-P	10.76	1.74	1.61
11	AB	593	DT	O3'-P	10.76	1.74	1.61
11	AB	1611	DG	O3'-P	10.76	1.74	1.61
11	AB	2255	DT	O3'-P	10.76	1.74	1.61
11	AB	2729	DG	O3'-P	10.76	1.74	1.61
11	AB	3022	DG	O3'-P	10.76	1.74	1.61
11	AB	3461	DG	O3'-P	10.76	1.74	1.61
11	AB	3917	DG	O3'-P	10.76	1.74	1.61
11	AB	4428	DG	O3'-P	10.76	1.74	1.61
11	AB	4550	DG	O3'-P	10.76	1.74	1.61
11	AB	5113	DG	O3'-P	10.76	1.74	1.61
11	AB	5749	DG	O3'-P	10.76	1.74	1.61
29	C5	30	DT	O3'-P	10.76	1.74	1.61
34	CA	3	DT	O3'-P	10.76	1.74	1.61
69	FD	44	DG	O3'-P	10.76	1.74	1.61
11	AB	785	DT	O3'-P	10.76	1.74	1.61
11	AB	1086	DT	O3'-P	10.76	1.74	1.61
11	AB	1126	DG	O3'-P	10.76	1.74	1.61
11	AB	1592	DG	O3'-P	10.76	1.74	1.61
11	AB	1789	DG	O3'-P	10.76	1.74	1.61
11	AB	2934	DT	O3'-P	10.76	1.74	1.61
11	AB	3369	DG	O3'-P	10.76	1.74	1.61
11	AB	7050	DG	O3'-P	10.76	1.74	1.61
37	D1	8	DC	O3'-P	10.76	1.74	1.61
49	E2	6	DG	O3'-P	10.76	1.74	1.61
51	E5	31	DT	O3'-P	10.76	1.74	1.61
97	I7	15	DT	O3'-P	10.76	1.74	1.61
119	K7	27	DG	O3'-P	10.76	1.74	1.61
120	K8	6	DG	O3'-P	10.76	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2081	DG	O3'-P	10.76	1.74	1.61
11	AB	3072	DT	O3'-P	10.76	1.74	1.61
11	AB	4025	DG	O3'-P	10.76	1.74	1.61
11	AB	4048	DG	O3'-P	10.76	1.74	1.61
11	AB	5058	DG	O3'-P	10.76	1.74	1.61
11	AB	5832	DT	O3'-P	10.76	1.74	1.61
211	TD	2	DT	O3'-P	10.76	1.74	1.61
11	AB	4055	DT	O3'-P	10.76	1.74	1.61
11	AB	4967	DG	O3'-P	10.76	1.74	1.61
11	AB	5028	DG	O3'-P	10.76	1.74	1.61
11	AB	5083	DG	O3'-P	10.76	1.74	1.61
11	AB	5126	DT	O3'-P	10.76	1.74	1.61
11	AB	5568	DT	O3'-P	10.76	1.74	1.61
11	AB	5824	DG	O3'-P	10.76	1.74	1.61
11	AB	6123	DG	O3'-P	10.76	1.74	1.61
11	AB	6524	DT	O3'-P	10.76	1.74	1.61
11	AB	6743	DA	O3'-P	10.76	1.74	1.61
11	AB	6907	DG	O3'-P	10.76	1.74	1.61
11	AB	6762	DT	O3'-P	10.76	1.74	1.61
11	AB	6783	DT	O3'-P	10.76	1.74	1.61
30	C6	17	DG	O3'-P	10.76	1.74	1.61
31	C7	4	DT	O3'-P	10.76	1.74	1.61
44	D9	23	DG	O3'-P	10.76	1.74	1.61
47	DD	38	DG	O3'-P	10.76	1.74	1.61
60	F2	22	DG	O3'-P	10.76	1.74	1.61
67	FA	18	DG	O3'-P	10.76	1.74	1.61
69	FD	37	DG	O3'-P	10.76	1.74	1.61
75	G7	7	DT	O3'-P	10.76	1.74	1.61
83	H3	37	DG	O3'-P	10.76	1.74	1.61
84	H5	1	DA	O3'-P	10.76	1.74	1.61
109	J8	26	DG	O3'-P	10.76	1.74	1.61
116	K3	19	DA	O3'-P	10.76	1.74	1.61
122	KA	13	DG	O3'-P	10.76	1.74	1.61
125	L1	25	DG	O3'-P	10.76	1.74	1.61
154	NC	26	DG	O3'-P	10.76	1.74	1.61
143	MA	11	DG	O3'-P	10.76	1.74	1.61
153	NA	14	DG	O3'-P	10.76	1.74	1.61
160	O7	9	DT	O3'-P	10.76	1.74	1.61
163	OA	13	DT	O3'-P	10.76	1.74	1.61
164	OC	27	DT	O3'-P	10.76	1.74	1.61
165	OD	53	DT	O3'-P	10.76	1.74	1.61
169	P6	18	DG	O3'-P	10.76	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
173	PA	32	DT	O3'-P	10.76	1.74	1.61
222	V3	10	DG	O3'-P	10.76	1.74	1.61
238	X9	58	DA	O3'-P	10.76	1.74	1.61
6	A6	28	DG	O3'-P	10.75	1.74	1.61
11	AB	497	DG	O3'-P	10.75	1.74	1.61
11	AB	842	DT	O3'-P	10.75	1.74	1.61
11	AB	992	DG	O3'-P	10.75	1.74	1.61
11	AB	1318	DA	O3'-P	10.75	1.74	1.61
11	AB	3579	DT	O3'-P	10.75	1.74	1.61
11	AB	4175	DG	O3'-P	10.75	1.74	1.61
11	AB	4858	DG	O3'-P	10.75	1.74	1.61
11	AB	7160	DG	O3'-P	10.75	1.74	1.61
13	AD	43	DG	O3'-P	10.75	1.74	1.61
169	P6	5	DG	O3'-P	10.75	1.74	1.61
11	AB	2917	DG	O3'-P	10.75	1.74	1.61
11	AB	4133	DG	O3'-P	10.75	1.74	1.61
11	AB	4566	DA	O3'-P	10.75	1.74	1.61
11	AB	4815	DT	O3'-P	10.75	1.74	1.61
11	AB	5238	DG	O3'-P	10.75	1.74	1.61
11	AB	6102	DA	O3'-P	10.75	1.74	1.61
11	AB	6298	DG	O3'-P	10.75	1.74	1.61
38	D2	14	DG	O3'-P	10.75	1.74	1.61
68	FC	5	DG	O3'-P	10.75	1.74	1.61
79	GC	12	DG	O3'-P	10.75	1.74	1.61
85	H6	23	DC	O3'-P	10.75	1.74	1.61
99	I9	21	DG	O3'-P	10.75	1.74	1.61
126	L2	11	DT	O3'-P	10.75	1.74	1.61
141	M8	12	DT	O3'-P	10.75	1.74	1.61
158	O5	6	DG	O3'-P	10.75	1.74	1.61
162	O9	6	DA	O3'-P	10.75	1.74	1.61
166	P2	26	DT	O3'-P	10.75	1.74	1.61
11	AB	6447	DG	O3'-P	10.75	1.74	1.61
11	AB	6933	DG	O3'-P	10.75	1.74	1.61
14	B1	20	DG	O3'-P	10.75	1.74	1.61
28	C3	14	DG	O3'-P	10.75	1.74	1.61
217	U9	5	DT	O3'-P	10.75	1.74	1.61
35	CC	30	DG	O3'-P	10.75	1.74	1.61
50	E3	4	DG	O3'-P	10.75	1.74	1.61
53	E7	22	DT	O3'-P	10.75	1.74	1.61
145	MD	38	DG	O3'-P	10.75	1.74	1.61
150	N7	17	DA	O3'-P	10.75	1.74	1.61
161	O8	47	DT	O3'-P	10.75	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
168	P5	3	DG	O3'-P	10.75	1.74	1.61
185	R2	12	DC	O3'-P	10.75	1.74	1.61
211	TD	10	DG	O3'-P	10.75	1.74	1.61
213	U3	13	DG	O3'-P	10.75	1.74	1.61
230	W3	34	DA	O3'-P	10.75	1.74	1.61
236	X5	5	DG	O3'-P	10.75	1.74	1.61
7	A7	14	DG	O3'-P	10.75	1.74	1.61
11	AB	909	DG	O3'-P	10.75	1.74	1.61
11	AB	1745	DT	O3'-P	10.75	1.74	1.61
11	AB	3811	DG	O3'-P	10.75	1.74	1.61
11	AB	4846	DG	O3'-P	10.75	1.74	1.61
11	AB	6456	DT	O3'-P	10.75	1.74	1.61
11	AB	126	DG	O3'-P	10.75	1.74	1.61
11	AB	1819	DG	O3'-P	10.75	1.74	1.61
11	AB	2762	DT	O3'-P	10.75	1.74	1.61
11	AB	3248	DT	O3'-P	10.75	1.74	1.61
11	AB	3456	DG	O3'-P	10.75	1.74	1.61
11	AB	4096	DG	O3'-P	10.75	1.74	1.61
11	AB	3472	DG	O3'-P	10.75	1.74	1.61
11	AB	4728	DT	O3'-P	10.75	1.74	1.61
11	AB	5375	DT	O3'-P	10.75	1.74	1.61
11	AB	5584	DA	O3'-P	10.75	1.74	1.61
11	AB	5700	DT	O3'-P	10.75	1.74	1.61
11	AB	5721	DT	O3'-P	10.75	1.74	1.61
11	AB	6622	DT	O3'-P	10.75	1.74	1.61
11	AB	6831	DG	O3'-P	10.75	1.74	1.61
11	AB	6947	DT	O3'-P	10.75	1.74	1.61
11	AB	7072	DG	O3'-P	10.75	1.74	1.61
11	AB	7195	DG	O3'-P	10.75	1.74	1.61
14	B1	1	DG	O3'-P	10.75	1.74	1.61
54	E8	28	DG	O3'-P	10.75	1.74	1.61
63	F6	20	DA	O3'-P	10.75	1.74	1.61
89	HA	11	DG	O3'-P	10.75	1.74	1.61
15	B2	20	DG	O3'-P	10.75	1.74	1.61
43	D8	25	DG	O3'-P	10.75	1.74	1.61
61	F3	15	DG	O3'-P	10.75	1.74	1.61
70	G1	17	DT	O3'-P	10.75	1.74	1.61
84	H5	20	DG	O3'-P	10.75	1.74	1.61
98	I8	33	DG	O3'-P	10.75	1.74	1.61
116	K3	7	DA	O3'-P	10.75	1.74	1.61
150	N7	22	DG	O3'-P	10.75	1.74	1.61
191	RA	11	DC	O3'-P	10.75	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
151	N8	8	DT	O3'-P	10.75	1.74	1.61
168	P5	9	DG	O3'-P	10.75	1.74	1.61
171	P8	18	DT	O3'-P	10.75	1.74	1.61
185	R2	15	DG	O3'-P	10.75	1.74	1.61
203	T2	10	DG	O3'-P	10.75	1.74	1.61
11	AB	1359	DT	O3'-P	10.75	1.74	1.61
11	AB	2476	DT	O3'-P	10.75	1.74	1.61
11	AB	2639	DT	O3'-P	10.75	1.74	1.61
11	AB	3269	DC	O3'-P	10.75	1.74	1.61
11	AB	3795	DG	O3'-P	10.75	1.74	1.61
11	AB	5745	DT	O3'-P	10.75	1.74	1.61
11	AB	6108	DT	O3'-P	10.75	1.74	1.61
11	AB	6818	DT	O3'-P	10.75	1.74	1.61
73	G5	17	DT	O3'-P	10.75	1.74	1.61
106	J5	6	DG	O3'-P	10.75	1.74	1.61
107	J6	24	DT	O3'-P	10.75	1.74	1.61
108	J7	25	DT	O3'-P	10.75	1.74	1.61
130	L7	4	DT	O3'-P	10.75	1.74	1.61
11	AB	42	DG	O3'-P	10.75	1.74	1.61
11	AB	324	DA	O3'-P	10.75	1.74	1.61
11	AB	993	DG	O3'-P	10.75	1.74	1.61
11	AB	1267	DG	O3'-P	10.75	1.74	1.61
11	AB	2018	DG	O3'-P	10.75	1.74	1.61
11	AB	2478	DG	O3'-P	10.75	1.74	1.61
11	AB	2733	DG	O3'-P	10.75	1.74	1.61
11	AB	4470	DG	O3'-P	10.75	1.74	1.61
11	AB	4489	DG	O3'-P	10.75	1.74	1.61
11	AB	4510	DG	O3'-P	10.75	1.74	1.61
11	AB	4629	DG	O3'-P	10.75	1.74	1.61
11	AB	4665	DG	O3'-P	10.75	1.74	1.61
11	AB	5242	DG	O3'-P	10.75	1.74	1.61
11	AB	5512	DT	O3'-P	10.75	1.74	1.61
11	AB	5651	DT	O3'-P	10.75	1.74	1.61
11	AB	5925	DT	O3'-P	10.75	1.74	1.61
11	AB	6211	DG	O3'-P	10.75	1.74	1.61
51	E5	23	DG	O3'-P	10.75	1.74	1.61
109	J8	42	DG	O3'-P	10.75	1.74	1.61
109	J8	51	DT	O3'-P	10.75	1.74	1.61
119	K7	30	DT	O3'-P	10.75	1.74	1.61
134	LC	20	DT	O3'-P	10.75	1.74	1.61
160	O7	22	DT	O3'-P	10.75	1.74	1.61
164	OC	18	DT	O3'-P	10.75	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	A9	16	DT	O3'-P	10.74	1.74	1.61
11	AB	240	DA	O3'-P	10.74	1.74	1.61
11	AB	415	DG	O3'-P	10.74	1.74	1.61
11	AB	4216	DG	O3'-P	10.74	1.74	1.61
11	AB	6181	DT	O3'-P	10.74	1.74	1.61
11	AB	86	DG	O3'-P	10.74	1.74	1.61
11	AB	334	DT	O3'-P	10.74	1.74	1.61
11	AB	501	DT	O3'-P	10.74	1.74	1.61
11	AB	509	DT	O3'-P	10.74	1.74	1.61
11	AB	858	DG	O3'-P	10.74	1.74	1.61
11	AB	1703	DG	O3'-P	10.74	1.74	1.61
11	AB	2052	DA	O3'-P	10.74	1.74	1.61
11	AB	2126	DT	O3'-P	10.74	1.74	1.61
11	AB	2227	DT	O3'-P	10.74	1.74	1.61
11	AB	2577	DA	O3'-P	10.74	1.74	1.61
11	AB	2630	DT	O3'-P	10.74	1.74	1.61
11	AB	2722	DT	O3'-P	10.74	1.74	1.61
11	AB	2774	DT	O3'-P	10.74	1.74	1.61
11	AB	3676	DG	O3'-P	10.74	1.74	1.61
11	AB	5672	DT	O3'-P	10.74	1.74	1.61
11	AB	5753	DT	O3'-P	10.74	1.74	1.61
11	AB	6369	DT	O3'-P	10.74	1.74	1.61
11	AB	6924	DT	O3'-P	10.74	1.74	1.61
55	E9	18	DG	O3'-P	10.74	1.74	1.61
145	MD	24	DG	O3'-P	10.74	1.74	1.61
167	P3	27	DT	O3'-P	10.74	1.74	1.61
210	TC	18	DT	O3'-P	10.74	1.74	1.61
11	AB	2146	DA	O3'-P	10.74	1.74	1.61
11	AB	2399	DT	O3'-P	10.74	1.74	1.61
11	AB	3139	DT	O3'-P	10.74	1.74	1.61
11	AB	3295	DT	O3'-P	10.74	1.74	1.61
11	AB	3428	DT	O3'-P	10.74	1.74	1.61
11	AB	3742	DG	O3'-P	10.74	1.74	1.61
11	AB	4472	DG	O3'-P	10.74	1.74	1.61
11	AB	4525	DG	O3'-P	10.74	1.74	1.61
11	AB	4711	DG	O3'-P	10.74	1.74	1.61
14	B1	33	DG	O3'-P	10.74	1.74	1.61
74	G6	29	DG	O3'-P	10.74	1.74	1.61
11	AB	5142	DA	O3'-P	10.74	1.74	1.61
11	AB	5219	DA	O3'-P	10.74	1.74	1.61
11	AB	6963	DG	O3'-P	10.74	1.74	1.61
11	AB	5588	DT	O3'-P	10.74	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6347	DA	O3'-P	10.74	1.74	1.61
11	AB	6942	DG	O3'-P	10.74	1.74	1.61
18	B5	8	DG	O3'-P	10.74	1.74	1.61
24	BC	18	DT	O3'-P	10.74	1.74	1.61
43	D8	16	DA	O3'-P	10.74	1.74	1.61
56	EA	20	DG	O3'-P	10.74	1.74	1.61
82	H2	43	DG	O3'-P	10.74	1.74	1.61
11	AB	7154	DG	O3'-P	10.74	1.74	1.61
58	ED	21	DG	O3'-P	10.74	1.74	1.61
67	FA	28	DA	O3'-P	10.74	1.74	1.61
82	H2	54	DG	O3'-P	10.74	1.74	1.61
99	I9	2	DA	O3'-P	10.74	1.74	1.61
102	ID	30	DG	O3'-P	10.74	1.74	1.61
171	P8	19	DT	O3'-P	10.74	1.74	1.61
104	J2	36	DA	O3'-P	10.74	1.74	1.61
109	J8	34	DG	O3'-P	10.74	1.74	1.61
111	JA	14	DA	O3'-P	10.74	1.74	1.61
112	JC	12	DG	O3'-P	10.74	1.74	1.61
154	NC	13	DT	O3'-P	10.74	1.74	1.61
117	K5	27	DG	O3'-P	10.74	1.74	1.61
170	P7	15	DT	O3'-P	10.74	1.74	1.61
171	P8	16	DA	O3'-P	10.74	1.74	1.61
183	QC	17	DA	O3'-P	10.74	1.74	1.61
217	U9	11	DG	O3'-P	10.74	1.74	1.61
230	W3	41	DG	O3'-P	10.74	1.74	1.61
11	AB	6050	DG	O3'-P	10.74	1.74	1.61
106	J5	29	DG	O3'-P	10.74	1.74	1.61
158	O5	49	DG	O3'-P	10.74	1.74	1.61
11	AB	345	DG	O3'-P	10.74	1.74	1.61
11	AB	394	DT	O3'-P	10.74	1.74	1.61
11	AB	1520	DG	O3'-P	10.74	1.74	1.61
11	AB	1832	DT	O3'-P	10.74	1.74	1.61
11	AB	2723	DA	O3'-P	10.74	1.74	1.61
11	AB	2877	DG	O3'-P	10.74	1.74	1.61
11	AB	3283	DT	O3'-P	10.74	1.74	1.61
11	AB	3227	DT	O3'-P	10.74	1.74	1.61
11	AB	3418	DG	O3'-P	10.74	1.74	1.61
11	AB	5772	DG	O3'-P	10.74	1.74	1.61
69	FD	16	DC	O3'-P	10.74	1.74	1.61
11	AB	3669	DT	O3'-P	10.74	1.74	1.61
11	AB	3673	DA	O3'-P	10.74	1.74	1.61
11	AB	3922	DA	O3'-P	10.74	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5266	DT	O3'-P	10.74	1.74	1.61
11	AB	6755	DG	O3'-P	10.74	1.74	1.61
11	AB	6825	DG	O3'-P	10.74	1.74	1.61
11	AB	7012	DG	O3'-P	10.74	1.74	1.61
20	B7	16	DT	O3'-P	10.74	1.74	1.61
11	AB	3688	DG	O3'-P	10.74	1.74	1.61
11	AB	5407	DA	O3'-P	10.74	1.74	1.61
11	AB	5938	DA	O3'-P	10.74	1.74	1.61
11	AB	6693	DG	O3'-P	10.74	1.74	1.61
14	B1	21	DG	O3'-P	10.74	1.74	1.61
17	B4	11	DG	O3'-P	10.74	1.74	1.61
28	C3	13	DG	O3'-P	10.74	1.74	1.61
125	L1	35	DA	O3'-P	10.74	1.74	1.61
35	CC	25	DT	O3'-P	10.74	1.74	1.61
65	F8	3	DG	O3'-P	10.74	1.74	1.61
97	I7	25	DG	O3'-P	10.74	1.74	1.61
109	J8	36	DT	O3'-P	10.74	1.74	1.61
114	K1	4	DA	O3'-P	10.74	1.74	1.61
124	KD	13	DA	O3'-P	10.74	1.74	1.61
130	L7	18	DT	O3'-P	10.74	1.74	1.61
132	L9	8	DT	O3'-P	10.74	1.74	1.61
139	M6	21	DG	O3'-P	10.74	1.74	1.61
141	M8	25	DT	O3'-P	10.74	1.74	1.61
147	N3	9	DA	O3'-P	10.74	1.74	1.61
178	Q5	25	DT	O3'-P	10.74	1.74	1.61
181	Q9	14	DT	O3'-P	10.74	1.74	1.61
186	R3	6	DG	O3'-P	10.74	1.74	1.61
192	RC	15	DT	O3'-P	10.74	1.74	1.61
194	S2	14	DG	O3'-P	10.74	1.74	1.61
196	S5	12	DG	O3'-P	10.74	1.74	1.61
198	S8	13	DT	O3'-P	10.74	1.74	1.61
209	TA	27	DG	O3'-P	10.74	1.74	1.61
209	TA	38	DA	O3'-P	10.74	1.74	1.61
219	UC	23	DT	O3'-P	10.74	1.74	1.61
223	V5	21	DG	O3'-P	10.74	1.74	1.61
228	VC	29	DG	O3'-P	10.74	1.74	1.61
11	AB	2996	DG	O3'-P	10.74	1.74	1.61
37	D1	41	DA	O3'-P	10.74	1.74	1.61
10	AA	7	DT	O3'-P	10.74	1.74	1.61
11	AB	67	DT	O3'-P	10.74	1.74	1.61
11	AB	234	DT	O3'-P	10.74	1.74	1.61
11	AB	1541	DG	O3'-P	10.74	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5112	DG	O3'-P	10.74	1.74	1.61
164	OC	19	DT	O3'-P	10.74	1.74	1.61
181	Q9	16	DG	O3'-P	10.74	1.74	1.61
11	AB	569	DT	O3'-P	10.74	1.74	1.61
11	AB	931	DG	O3'-P	10.74	1.74	1.61
11	AB	1694	DT	O3'-P	10.74	1.74	1.61
11	AB	1879	DT	O3'-P	10.74	1.74	1.61
11	AB	2315	DT	O3'-P	10.74	1.74	1.61
11	AB	2741	DA	O3'-P	10.74	1.74	1.61
11	AB	3165	DT	O3'-P	10.74	1.74	1.61
11	AB	3879	DG	O3'-P	10.74	1.74	1.61
11	AB	4312	DA	O3'-P	10.74	1.74	1.61
11	AB	4608	DG	O3'-P	10.74	1.74	1.61
11	AB	5482	DG	O3'-P	10.74	1.74	1.61
11	AB	5524	DA	O3'-P	10.74	1.74	1.61
11	AB	6024	DG	O3'-P	10.74	1.74	1.61
11	AB	6899	DC	O3'-P	10.74	1.74	1.61
32	C8	2	DT	O3'-P	10.74	1.74	1.61
35	CC	14	DT	O3'-P	10.74	1.74	1.61
42	D7	7	DG	O3'-P	10.74	1.74	1.61
42	D7	8	DG	O3'-P	10.74	1.74	1.61
43	D8	1	DT	O3'-P	10.74	1.74	1.61
58	ED	7	DG	O3'-P	10.74	1.74	1.61
60	F2	3	DA	O3'-P	10.74	1.74	1.61
64	F7	25	DT	O3'-P	10.74	1.74	1.61
77	G9	10	DG	O3'-P	10.74	1.74	1.61
67	FA	16	DT	O3'-P	10.74	1.74	1.61
71	G2	14	DT	O3'-P	10.74	1.74	1.61
91	HD	17	DG	O3'-P	10.74	1.74	1.61
92	I1	17	DG	O3'-P	10.74	1.74	1.61
98	I8	32	DG	O3'-P	10.74	1.74	1.61
109	J8	23	DT	O3'-P	10.74	1.74	1.61
133	LA	16	DA	O3'-P	10.74	1.74	1.61
154	NC	30	DG	O3'-P	10.74	1.74	1.61
104	J2	41	DT	O3'-P	10.74	1.74	1.61
189	R8	28	DG	O3'-P	10.74	1.74	1.61
202	SD	18	DA	O3'-P	10.74	1.74	1.61
209	TA	23	DT	O3'-P	10.74	1.74	1.61
220	UD	19	DG	O3'-P	10.74	1.74	1.61
228	VC	12	DG	O3'-P	10.74	1.74	1.61
11	AB	639	DG	O3'-P	10.73	1.74	1.61
11	AB	745	DG	O3'-P	10.73	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1561	DT	O3'-P	10.73	1.74	1.61
11	AB	3036	DT	O3'-P	10.73	1.74	1.61
11	AB	4701	DG	O3'-P	10.73	1.74	1.61
11	AB	5360	DT	O3'-P	10.73	1.74	1.61
11	AB	5653	DT	O3'-P	10.73	1.74	1.61
11	AB	6999	DG	O3'-P	10.73	1.74	1.61
10	AA	20	DG	O3'-P	10.73	1.74	1.61
11	AB	294	DG	O3'-P	10.73	1.74	1.61
11	AB	536	DG	O3'-P	10.73	1.74	1.61
11	AB	1026	DG	O3'-P	10.73	1.74	1.61
11	AB	2189	DA	O3'-P	10.73	1.74	1.61
11	AB	2567	DT	O3'-P	10.73	1.74	1.61
11	AB	3106	DC	O3'-P	10.73	1.74	1.61
11	AB	3258	DT	O3'-P	10.73	1.74	1.61
11	AB	3952	DG	O3'-P	10.73	1.74	1.61
11	AB	4420	DG	O3'-P	10.73	1.74	1.61
11	AB	4443	DA	O3'-P	10.73	1.74	1.61
11	AB	6579	DT	O3'-P	10.73	1.74	1.61
18	B5	36	DT	O3'-P	10.73	1.74	1.61
55	E9	22	DG	O3'-P	10.73	1.74	1.61
11	AB	3566	DG	O3'-P	10.73	1.74	1.61
11	AB	3775	DG	O3'-P	10.73	1.74	1.61
11	AB	3826	DT	O3'-P	10.73	1.74	1.61
11	AB	4656	DG	O3'-P	10.73	1.74	1.61
11	AB	5674	DT	O3'-P	10.73	1.74	1.61
11	AB	4657	DG	O3'-P	10.73	1.74	1.61
11	AB	5053	DG	O3'-P	10.73	1.74	1.61
11	AB	6198	DT	O3'-P	10.73	1.74	1.61
48	E1	8	DC	O3'-P	10.73	1.74	1.61
32	C8	8	DG	O3'-P	10.73	1.74	1.61
48	E1	12	DG	O3'-P	10.73	1.74	1.61
62	F5	18	DG	O3'-P	10.73	1.74	1.61
65	F8	11	DG	O3'-P	10.73	1.74	1.61
80	GD	20	DG	O3'-P	10.73	1.74	1.61
84	H5	21	DC	O3'-P	10.73	1.74	1.61
104	J2	31	DT	O3'-P	10.73	1.74	1.61
111	JA	16	DT	O3'-P	10.73	1.74	1.61
156	O2	22	DT	O3'-P	10.73	1.74	1.61
186	R3	17	DT	O3'-P	10.73	1.74	1.61
120	K8	13	DA	O3'-P	10.73	1.74	1.61
149	N6	18	DA	O3'-P	10.73	1.74	1.61
149	N6	29	DT	O3'-P	10.73	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
159	O6	5	DG	O3'-P	10.73	1.74	1.61
165	OD	55	DG	O3'-P	10.73	1.74	1.61
201	SC	11	DG	O3'-P	10.73	1.74	1.61
205	T5	7	DT	O3'-P	10.73	1.74	1.61
227	VA	7	DG	O3'-P	10.73	1.74	1.61
4	A4	11	DG	O3'-P	10.73	1.74	1.61
11	AB	195	DT	O3'-P	10.73	1.74	1.61
11	AB	190	DT	O3'-P	10.73	1.74	1.61
11	AB	575	DT	O3'-P	10.73	1.74	1.61
11	AB	2288	DA	O3'-P	10.73	1.74	1.61
11	AB	2668	DG	O3'-P	10.73	1.74	1.61
11	AB	3087	DG	O3'-P	10.73	1.74	1.61
11	AB	3214	DG	O3'-P	10.73	1.74	1.61
11	AB	3316	DG	O3'-P	10.73	1.74	1.61
11	AB	3838	DG	O3'-P	10.73	1.74	1.61
11	AB	5439	DA	O3'-P	10.73	1.74	1.61
11	AB	6917	DG	O3'-P	10.73	1.74	1.61
42	D7	12	DA	O3'-P	10.73	1.74	1.61
85	H6	27	DA	O3'-P	10.73	1.74	1.61
11	AB	3449	DG	O3'-P	10.73	1.74	1.61
11	AB	3491	DG	O3'-P	10.73	1.74	1.61
11	AB	3986	DG	O3'-P	10.73	1.74	1.61
11	AB	4649	DG	O3'-P	10.73	1.74	1.61
179	Q7	10	DT	O3'-P	10.73	1.74	1.61
206	T7	29	DA	O3'-P	10.73	1.74	1.61
11	AB	4951	DG	O3'-P	10.73	1.74	1.61
11	AB	5070	DG	O3'-P	10.73	1.74	1.61
11	AB	5167	DG	O3'-P	10.73	1.74	1.61
11	AB	6752	DG	O3'-P	10.73	1.74	1.61
50	E3	1	DG	O3'-P	10.73	1.74	1.61
238	X9	4	DG	O3'-P	10.73	1.74	1.61
11	AB	5641	DG	O3'-P	10.73	1.74	1.61
11	AB	6875	DT	O3'-P	10.73	1.74	1.61
11	AB	7069	DG	O3'-P	10.73	1.74	1.61
11	AB	7134	DT	O3'-P	10.73	1.74	1.61
32	C8	39	DG	O3'-P	10.73	1.74	1.61
36	CD	5	DG	O3'-P	10.73	1.74	1.61
202	SD	11	DA	O3'-P	10.73	1.74	1.61
46	DC	20	DG	O3'-P	10.73	1.74	1.61
47	DD	36	DT	O3'-P	10.73	1.74	1.61
99	I9	17	DG	O3'-P	10.73	1.74	1.61
104	J2	38	DT	O3'-P	10.73	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
109	J8	11	DG	O3'-P	10.73	1.74	1.61
115	K2	17	DG	O3'-P	10.73	1.74	1.61
139	M6	19	DG	O3'-P	10.73	1.74	1.61
148	N5	15	DA	O3'-P	10.73	1.74	1.61
160	O7	39	DA	O3'-P	10.73	1.74	1.61
167	P3	29	DG	O3'-P	10.73	1.74	1.61
198	S8	36	DA	O3'-P	10.73	1.74	1.61
200	SA	5	DG	O3'-P	10.73	1.74	1.61
153	NA	13	DG	O3'-P	10.73	1.74	1.61
212	U2	10	DG	O3'-P	10.73	1.74	1.61
229	VD	14	DA	O3'-P	10.73	1.74	1.61
231	W5	33	DA	O3'-P	10.73	1.74	1.61
238	X9	43	DC	O3'-P	10.73	1.74	1.61
11	AB	114	DG	O3'-P	10.73	1.74	1.61
11	AB	499	DG	O3'-P	10.73	1.74	1.61
11	AB	715	DT	O3'-P	10.73	1.74	1.61
11	AB	901	DG	O3'-P	10.73	1.74	1.61
11	AB	6940	DG	O3'-P	10.73	1.74	1.61
16	B3	20	DT	O3'-P	10.73	1.74	1.61
73	G5	19	DA	O3'-P	10.73	1.74	1.61
11	AB	77	DA	O3'-P	10.73	1.74	1.61
11	AB	210	DA	O3'-P	10.73	1.74	1.61
11	AB	327	DG	O3'-P	10.73	1.74	1.61
11	AB	1250	DT	O3'-P	10.73	1.74	1.61
11	AB	1595	DT	O3'-P	10.73	1.74	1.61
11	AB	5350	DA	O3'-P	10.73	1.74	1.61
11	AB	5886	DT	O3'-P	10.73	1.74	1.61
55	E9	16	DT	O3'-P	10.73	1.74	1.61
95	I5	26	DT	O3'-P	10.73	1.74	1.61
107	J6	33	DA	O3'-P	10.73	1.74	1.61
108	J7	41	DA	O3'-P	10.73	1.74	1.61
189	R8	9	DT	O3'-P	10.73	1.74	1.61
211	TD	7	DT	O3'-P	10.73	1.74	1.61
224	V7	19	DT	O3'-P	10.73	1.74	1.61
11	AB	553	DA	O3'-P	10.73	1.74	1.61
11	AB	942	DG	O3'-P	10.73	1.74	1.61
11	AB	1213	DT	O3'-P	10.73	1.74	1.61
11	AB	1639	DG	O3'-P	10.73	1.74	1.61
11	AB	2215	DA	O3'-P	10.73	1.74	1.61
11	AB	2263	DG	O3'-P	10.73	1.74	1.61
11	AB	3105	DG	O3'-P	10.73	1.74	1.61
11	AB	3653	DG	O3'-P	10.73	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3834	DT	O3'-P	10.73	1.74	1.61
11	AB	4372	DA	O3'-P	10.73	1.74	1.61
11	AB	4402	DT	O3'-P	10.73	1.74	1.61
11	AB	4777	DG	O3'-P	10.73	1.74	1.61
11	AB	5460	DT	O3'-P	10.73	1.74	1.61
11	AB	5646	DT	O3'-P	10.73	1.74	1.61
11	AB	5734	DG	O3'-P	10.73	1.74	1.61
11	AB	5826	DT	O3'-P	10.73	1.74	1.61
11	AB	6057	DG	O3'-P	10.73	1.74	1.61
11	AB	6185	DT	O3'-P	10.73	1.74	1.61
11	AB	6837	DG	O3'-P	10.73	1.74	1.61
11	AB	7076	DT	O3'-P	10.73	1.74	1.61
23	BA	16	DG	O3'-P	10.73	1.74	1.61
48	E1	27	DT	O3'-P	10.73	1.74	1.61
48	E1	23	DA	O3'-P	10.73	1.74	1.61
52	E6	19	DA	O3'-P	10.73	1.74	1.61
53	E7	16	DG	O3'-P	10.73	1.74	1.61
64	F7	14	DG	O3'-P	10.73	1.74	1.61
67	FA	20	DT	O3'-P	10.73	1.74	1.61
75	G7	2	DA	O3'-P	10.73	1.74	1.61
102	ID	11	DA	O3'-P	10.73	1.74	1.61
122	KA	50	DT	O3'-P	10.73	1.74	1.61
128	L5	17	DA	O3'-P	10.73	1.74	1.61
134	LC	6	DA	O3'-P	10.73	1.74	1.61
141	M8	16	DA	O3'-P	10.73	1.74	1.61
143	MA	23	DA	O3'-P	10.73	1.74	1.61
171	P8	13	DT	O3'-P	10.73	1.74	1.61
223	V5	9	DG	O3'-P	10.73	1.74	1.61
224	V7	14	DT	O3'-P	10.73	1.74	1.61
228	VC	4	DA	O3'-P	10.73	1.74	1.61
231	W5	23	DG	O3'-P	10.73	1.74	1.61
11	AB	585	DT	O3'-P	10.72	1.74	1.61
212	U2	15	DT	O3'-P	10.72	1.74	1.61
1	A1	6	DA	O3'-P	10.72	1.74	1.61
11	AB	377	DT	O3'-P	10.72	1.74	1.61
11	AB	836	DT	O3'-P	10.72	1.74	1.61
11	AB	2323	DT	O3'-P	10.72	1.74	1.61
11	AB	2367	DT	O3'-P	10.72	1.74	1.61
11	AB	2991	DT	O3'-P	10.72	1.74	1.61
11	AB	6930	DG	O3'-P	10.72	1.74	1.61
26	C1	10	DA	O3'-P	10.72	1.74	1.61
184	QD	27	DT	O3'-P	10.72	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	611	DT	O3'-P	10.72	1.74	1.61
11	AB	634	DG	O3'-P	10.72	1.74	1.61
11	AB	669	DA	O3'-P	10.72	1.74	1.61
11	AB	693	DA	O3'-P	10.72	1.74	1.61
11	AB	1347	DG	O3'-P	10.72	1.74	1.61
11	AB	2345	DG	O3'-P	10.72	1.74	1.61
11	AB	2457	DT	O3'-P	10.72	1.74	1.61
11	AB	2975	DA	O3'-P	10.72	1.74	1.61
11	AB	3535	DT	O3'-P	10.72	1.74	1.61
11	AB	4006	DT	O3'-P	10.72	1.74	1.61
11	AB	5203	DG	O3'-P	10.72	1.74	1.61
11	AB	5402	DT	O3'-P	10.72	1.74	1.61
11	AB	5563	DT	O3'-P	10.72	1.74	1.61
11	AB	5618	DT	O3'-P	10.72	1.74	1.61
11	AB	7005	DT	O3'-P	10.72	1.74	1.61
11	AB	7084	DG	O3'-P	10.72	1.74	1.61
158	O5	18	DA	O3'-P	10.72	1.74	1.61
15	B2	7	DA	O3'-P	10.72	1.74	1.61
18	B5	12	DG	O3'-P	10.72	1.74	1.61
18	B5	16	DA	O3'-P	10.72	1.74	1.61
27	C2	10	DA	O3'-P	10.72	1.74	1.61
47	DD	32	DA	O3'-P	10.72	1.74	1.61
50	E3	12	DT	O3'-P	10.72	1.74	1.61
54	E8	7	DT	O3'-P	10.72	1.74	1.61
88	H9	2	DT	O3'-P	10.72	1.74	1.61
96	I6	16	DA	O3'-P	10.72	1.74	1.61
100	IA	15	DT	O3'-P	10.72	1.74	1.61
137	M3	28	DT	O3'-P	10.72	1.74	1.61
122	KA	9	DT	O3'-P	10.72	1.74	1.61
122	KA	39	DA	O3'-P	10.72	1.74	1.61
125	L1	27	DA	O3'-P	10.72	1.74	1.61
227	VA	2	DA	O3'-P	10.72	1.74	1.61
231	W5	31	DT	O3'-P	10.72	1.74	1.61
123	KC	19	DG	O3'-P	10.72	1.74	1.61
147	N3	22	DA	O3'-P	10.72	1.74	1.61
161	O8	7	DT	O3'-P	10.72	1.74	1.61
190	R9	29	DC	O3'-P	10.72	1.74	1.61
11	AB	563	DT	O3'-P	10.72	1.74	1.61
11	AB	847	DT	O3'-P	10.72	1.74	1.61
11	AB	1017	DA	O3'-P	10.72	1.74	1.61
11	AB	1051	DA	O3'-P	10.72	1.74	1.61
11	AB	1650	DT	O3'-P	10.72	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1891	DA	O3'-P	10.72	1.74	1.61
11	AB	2496	DA	O3'-P	10.72	1.74	1.61
198	S8	44	DA	O3'-P	10.72	1.74	1.61
11	AB	1949	DG	O3'-P	10.72	1.74	1.61
11	AB	2162	DT	O3'-P	10.72	1.74	1.61
11	AB	2384	DT	O3'-P	10.72	1.74	1.61
11	AB	2608	DT	O3'-P	10.72	1.74	1.61
11	AB	2910	DG	O3'-P	10.72	1.74	1.61
11	AB	3144	DT	O3'-P	10.72	1.74	1.61
11	AB	3186	DT	O3'-P	10.72	1.74	1.61
11	AB	3393	DG	O3'-P	10.72	1.74	1.61
11	AB	3514	DG	O3'-P	10.72	1.74	1.61
11	AB	3523	DT	O3'-P	10.72	1.74	1.61
11	AB	5418	DT	O3'-P	10.72	1.74	1.61
187	R5	32	DT	O3'-P	10.72	1.74	1.61
11	AB	3779	DG	O3'-P	10.72	1.74	1.61
11	AB	3901	DA	O3'-P	10.72	1.74	1.61
11	AB	4322	DG	O3'-P	10.72	1.74	1.61
11	AB	5862	DT	O3'-P	10.72	1.74	1.61
19	B6	23	DT	O3'-P	10.72	1.74	1.61
26	C1	21	DT	O3'-P	10.72	1.74	1.61
74	G6	10	DT	O3'-P	10.72	1.74	1.61
92	I1	10	DT	O3'-P	10.72	1.74	1.61
11	AB	4689	DG	O3'-P	10.72	1.74	1.61
11	AB	4725	DG	O3'-P	10.72	1.74	1.61
11	AB	4757	DG	O3'-P	10.72	1.74	1.61
11	AB	4764	DA	O3'-P	10.72	1.74	1.61
11	AB	4820	DG	O3'-P	10.72	1.74	1.61
11	AB	4882	DT	O3'-P	10.72	1.74	1.61
11	AB	5144	DA	O3'-P	10.72	1.74	1.61
11	AB	5217	DT	O3'-P	10.72	1.74	1.61
11	AB	6986	DT	O3'-P	10.72	1.74	1.61
99	I9	10	DG	O3'-P	10.72	1.74	1.61
142	M9	5	DG	O3'-P	10.72	1.74	1.61
11	AB	5430	DG	O3'-P	10.72	1.74	1.61
11	AB	6400	DG	O3'-P	10.72	1.74	1.61
11	AB	6484	DT	O3'-P	10.72	1.74	1.61
11	AB	6502	DT	O3'-P	10.72	1.74	1.61
11	AB	6722	DT	O3'-P	10.72	1.74	1.61
11	AB	7181	DT	O3'-P	10.72	1.74	1.61
30	C6	25	DG	O3'-P	10.72	1.74	1.61
32	C8	28	DG	O3'-P	10.72	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	C8	43	DT	O3'-P	10.72	1.74	1.61
41	D6	3	DG	O3'-P	10.72	1.74	1.61
45	DA	24	DT	O3'-P	10.72	1.74	1.61
67	FA	11	DT	O3'-P	10.72	1.74	1.61
82	H2	50	DT	O3'-P	10.72	1.74	1.61
78	GA	5	DA	O3'-P	10.72	1.74	1.61
83	H3	5	DG	O3'-P	10.72	1.74	1.61
115	K2	28	DA	O3'-P	10.72	1.74	1.61
125	L1	19	DT	O3'-P	10.72	1.74	1.61
126	L2	18	DT	O3'-P	10.72	1.74	1.61
128	L5	5	DT	O3'-P	10.72	1.74	1.61
132	L9	15	DA	O3'-P	10.72	1.74	1.61
188	R7	22	DA	O3'-P	10.72	1.74	1.61
200	SA	24	DT	O3'-P	10.72	1.74	1.61
204	T3	1	DG	O3'-P	10.72	1.74	1.61
147	N3	5	DG	O3'-P	10.72	1.74	1.61
160	O7	44	DT	O3'-P	10.72	1.74	1.61
164	OC	7	DA	O3'-P	10.72	1.74	1.61
164	OC	22	DA	O3'-P	10.72	1.74	1.61
186	R3	14	DT	O3'-P	10.72	1.74	1.61
192	RC	19	DA	O3'-P	10.72	1.74	1.61
211	TD	39	DG	O3'-P	10.72	1.74	1.61
213	U3	19	DG	O3'-P	10.72	1.74	1.61
223	V5	4	DT	O3'-P	10.72	1.74	1.61
227	VA	22	DG	O3'-P	10.72	1.74	1.61
230	W3	5	DT	O3'-P	10.72	1.74	1.61
11	AB	625	DT	O3'-P	10.72	1.74	1.61
11	AB	1202	DT	O3'-P	10.72	1.74	1.61
11	AB	2851	DG	O3'-P	10.72	1.74	1.61
11	AB	3318	DT	O3'-P	10.72	1.74	1.61
11	AB	3451	DT	O3'-P	10.72	1.74	1.61
153	NA	5	DA	O3'-P	10.72	1.74	1.61
7	A7	5	DT	O3'-P	10.72	1.74	1.61
11	AB	173	DT	O3'-P	10.72	1.74	1.61
11	AB	4378	DA	O3'-P	10.72	1.74	1.61
147	N3	12	DG	O3'-P	10.72	1.74	1.61
11	AB	766	DG	O3'-P	10.72	1.74	1.61
11	AB	1225	DT	O3'-P	10.72	1.74	1.61
11	AB	1357	DT	O3'-P	10.72	1.74	1.61
11	AB	2562	DA	O3'-P	10.72	1.74	1.61
101	IC	21	DA	O3'-P	10.72	1.74	1.61
131	L8	6	DT	O3'-P	10.72	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1800	DT	O3'-P	10.72	1.74	1.61
11	AB	2129	DT	O3'-P	10.72	1.74	1.61
11	AB	3259	DA	O3'-P	10.72	1.74	1.61
11	AB	4383	DA	O3'-P	10.72	1.74	1.61
11	AB	4879	DA	O3'-P	10.72	1.74	1.61
11	AB	5310	DA	O3'-P	10.72	1.74	1.61
11	AB	5533	DG	O3'-P	10.72	1.74	1.61
62	F5	15	DA	O3'-P	10.72	1.74	1.61
11	AB	5629	DT	O3'-P	10.72	1.74	1.61
11	AB	6385	DG	O3'-P	10.72	1.74	1.61
11	AB	6590	DA	O3'-P	10.72	1.74	1.61
11	AB	6680	DT	O3'-P	10.72	1.74	1.61
11	AB	6774	DG	O3'-P	10.72	1.74	1.61
106	J5	1	DA	O3'-P	10.72	1.74	1.61
122	KA	1	DA	O3'-P	10.72	1.74	1.61
13	AD	33	DG	O3'-P	10.72	1.74	1.61
25	BD	5	DA	O3'-P	10.72	1.74	1.61
32	C8	21	DA	O3'-P	10.72	1.74	1.61
32	C8	36	DG	O3'-P	10.72	1.74	1.61
39	D3	32	DG	O3'-P	10.72	1.74	1.61
124	KD	3	DA	O3'-P	10.72	1.74	1.61
41	D6	25	DA	O3'-P	10.72	1.74	1.61
108	J7	55	DG	O3'-P	10.72	1.74	1.61
129	L6	23	DG	O3'-P	10.72	1.74	1.61
197	S7	1	DA	O3'-P	10.72	1.74	1.61
238	X9	53	DG	O3'-P	10.72	1.74	1.61
143	MA	37	DA	O3'-P	10.72	1.74	1.61
151	N8	19	DG	O3'-P	10.72	1.74	1.61
158	O5	44	DT	O3'-P	10.72	1.74	1.61
167	P3	7	DT	O3'-P	10.72	1.74	1.61
181	Q9	21	DA	O3'-P	10.72	1.74	1.61
198	S8	16	DA	O3'-P	10.72	1.74	1.61
203	T2	27	DA	O3'-P	10.72	1.74	1.61
204	T3	5	DG	O3'-P	10.72	1.74	1.61
232	W7	14	DT	O3'-P	10.72	1.74	1.61
232	W7	19	DG	O3'-P	10.72	1.74	1.61
11	AB	47	DA	O3'-P	10.71	1.74	1.61
11	AB	255	DA	O3'-P	10.71	1.74	1.61
11	AB	648	DA	O3'-P	10.72	1.74	1.61
11	AB	839	DA	O3'-P	10.71	1.74	1.61
11	AB	997	DA	O3'-P	10.71	1.74	1.61
11	AB	1064	DA	O3'-P	10.71	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1578	DA	O3'-P	10.72	1.74	1.61
11	AB	2204	DT	O3'-P	10.72	1.74	1.61
11	AB	2424	DT	O3'-P	10.71	1.74	1.61
11	AB	2433	DA	O3'-P	10.72	1.74	1.61
11	AB	2582	DA	O3'-P	10.72	1.74	1.61
11	AB	2716	DA	O3'-P	10.72	1.74	1.61
11	AB	2781	DG	O3'-P	10.72	1.74	1.61
11	AB	2968	DT	O3'-P	10.71	1.74	1.61
11	AB	3453	DT	O3'-P	10.72	1.74	1.61
11	AB	4251	DA	O3'-P	10.72	1.74	1.61
28	C3	5	DA	O3'-P	10.72	1.74	1.61
87	H8	10	DA	O3'-P	10.72	1.74	1.61
234	W9	4	DA	O3'-P	10.72	1.74	1.61
11	AB	3377	DA	O3'-P	10.71	1.74	1.61
11	AB	3469	DG	O3'-P	10.71	1.74	1.61
11	AB	3559	DT	O3'-P	10.71	1.74	1.61
11	AB	3774	DG	O3'-P	10.71	1.74	1.61
11	AB	4058	DT	O3'-P	10.71	1.74	1.61
11	AB	4398	DG	O3'-P	10.71	1.74	1.61
11	AB	4799	DA	O3'-P	10.72	1.74	1.61
164	OC	9	DA	O3'-P	10.72	1.74	1.61
11	AB	4514	DG	O3'-P	10.71	1.74	1.61
11	AB	4600	DG	O3'-P	10.71	1.74	1.61
11	AB	5123	DG	O3'-P	10.71	1.74	1.61
11	AB	5396	DT	O3'-P	10.72	1.74	1.61
11	AB	5623	DA	O3'-P	10.72	1.74	1.61
11	AB	5943	DT	O3'-P	10.71	1.74	1.61
11	AB	5967	DT	O3'-P	10.71	1.74	1.61
11	AB	7185	DT	O3'-P	10.72	1.74	1.61
11	AB	6230	DA	O3'-P	10.71	1.74	1.61
17	B4	19	DT	O3'-P	10.71	1.74	1.61
29	C5	25	DA	O3'-P	10.72	1.74	1.61
30	C6	39	DA	O3'-P	10.71	1.74	1.61
47	DD	7	DT	O3'-P	10.72	1.74	1.61
61	F3	3	DT	O3'-P	10.72	1.74	1.61
32	C8	33	DA	O3'-P	10.71	1.74	1.61
43	D8	3	DT	O3'-P	10.71	1.74	1.61
91	HD	7	DT	O3'-P	10.71	1.74	1.61
97	I7	9	DA	O3'-P	10.71	1.74	1.61
104	J2	24	DA	O3'-P	10.71	1.74	1.61
172	P9	20	DG	O3'-P	10.72	1.74	1.61
177	Q3	25	DT	O3'-P	10.72	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
106	J5	33	DG	O3'-P	10.71	1.74	1.61
107	J6	22	DG	O3'-P	10.71	1.74	1.61
115	K2	35	DA	O3'-P	10.71	1.74	1.61
117	K5	18	DA	O3'-P	10.71	1.74	1.61
120	K8	9	DG	O3'-P	10.71	1.74	1.61
122	KA	11	DG	O3'-P	10.71	1.74	1.61
161	O8	15	DT	O3'-P	10.72	1.74	1.61
159	O6	17	DT	O3'-P	10.71	1.74	1.61
175	PD	5	DG	O3'-P	10.71	1.74	1.61
176	Q2	13	DA	O3'-P	10.72	1.74	1.61
177	Q3	14	DA	O3'-P	10.71	1.74	1.61
183	QC	6	DT	O3'-P	10.72	1.74	1.61
237	X7	11	DT	O3'-P	10.72	1.74	1.61
188	R7	7	DG	O3'-P	10.71	1.74	1.61
209	TA	15	DG	O3'-P	10.71	1.74	1.61
1	A1	41	DG	O3'-P	10.71	1.74	1.61
11	AB	486	DA	O3'-P	10.71	1.74	1.61
11	AB	528	DA	O3'-P	10.71	1.74	1.61
11	AB	1167	DT	O3'-P	10.71	1.74	1.61
11	AB	3980	DT	O3'-P	10.71	1.74	1.61
11	AB	7015	DG	O3'-P	10.71	1.74	1.61
13	AD	32	DG	O3'-P	10.71	1.74	1.61
105	J3	14	DA	O3'-P	10.71	1.74	1.61
194	S2	1	DT	O3'-P	10.71	1.74	1.61
11	AB	323	DT	O3'-P	10.71	1.74	1.61
11	AB	491	DT	O3'-P	10.71	1.74	1.61
11	AB	526	DG	O3'-P	10.71	1.74	1.61
11	AB	1254	DT	O3'-P	10.71	1.74	1.61
174	PC	10	DG	O3'-P	10.71	1.74	1.61
11	AB	2223	DA	O3'-P	10.71	1.74	1.61
11	AB	2565	DT	O3'-P	10.71	1.74	1.61
11	AB	2571	DT	O3'-P	10.71	1.74	1.61
11	AB	2683	DT	O3'-P	10.71	1.74	1.61
11	AB	3342	DT	O3'-P	10.71	1.74	1.61
11	AB	3553	DG	O3'-P	10.71	1.74	1.61
11	AB	3564	DT	O3'-P	10.71	1.74	1.61
11	AB	3625	DT	O3'-P	10.71	1.74	1.61
11	AB	3816	DT	O3'-P	10.71	1.74	1.61
11	AB	3989	DT	O3'-P	10.71	1.74	1.61
11	AB	4123	DA	O3'-P	10.71	1.74	1.61
11	AB	4486	DA	O3'-P	10.71	1.74	1.61
11	AB	6720	DT	O3'-P	10.71	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3858	DT	O3'-P	10.71	1.74	1.61
11	AB	6251	DA	O3'-P	10.71	1.74	1.61
11	AB	6741	DT	O3'-P	10.71	1.74	1.61
22	B9	41	DG	O3'-P	10.71	1.74	1.61
11	AB	3937	DA	O3'-P	10.71	1.74	1.61
11	AB	4440	DA	O3'-P	10.71	1.74	1.61
11	AB	4625	DG	O3'-P	10.71	1.74	1.61
11	AB	5599	DT	O3'-P	10.71	1.74	1.61
11	AB	5715	DA	O3'-P	10.71	1.74	1.61
11	AB	6294	DT	O3'-P	10.71	1.74	1.61
38	D2	2	DA	O3'-P	10.71	1.74	1.61
44	D9	12	DA	O3'-P	10.71	1.74	1.61
51	E5	7	DG	O3'-P	10.71	1.74	1.61
61	F3	19	DA	O3'-P	10.71	1.74	1.61
180	Q8	20	DT	O3'-P	10.71	1.74	1.61
11	AB	7152	DT	O3'-P	10.71	1.74	1.61
11	AB	7187	DG	O3'-P	10.71	1.74	1.61
11	AB	7238	DT	O3'-P	10.71	1.74	1.61
13	AD	8	DT	O3'-P	10.71	1.74	1.61
44	D9	9	DA	O3'-P	10.71	1.74	1.61
48	E1	29	DA	O3'-P	10.71	1.74	1.61
72	G3	9	DT	O3'-P	10.71	1.74	1.61
136	M2	13	DT	O3'-P	10.71	1.74	1.61
29	C5	18	DA	O3'-P	10.71	1.74	1.61
88	H9	21	DG	O3'-P	10.71	1.74	1.61
117	K5	9	DA	O3'-P	10.71	1.74	1.61
184	QD	19	DT	O3'-P	10.71	1.74	1.61
95	I5	2	DA	O3'-P	10.71	1.74	1.61
96	I6	13	DT	O3'-P	10.71	1.74	1.61
106	J5	7	DG	O3'-P	10.71	1.74	1.61
119	K7	39	DG	O3'-P	10.71	1.74	1.61
143	MA	25	DA	O3'-P	10.71	1.74	1.61
153	NA	21	DG	O3'-P	10.71	1.74	1.61
166	P2	9	DG	O3'-P	10.71	1.74	1.61
177	Q3	7	DA	O3'-P	10.71	1.74	1.61
179	Q7	14	DT	O3'-P	10.71	1.74	1.61
195	S3	20	DT	O3'-P	10.71	1.74	1.61
204	T3	38	DG	O3'-P	10.71	1.74	1.61
225	V8	25	DA	O3'-P	10.71	1.74	1.61
216	U8	15	DA	O3'-P	10.71	1.74	1.61
219	UC	29	DA	O3'-P	10.71	1.74	1.61
233	W8	14	DG	O3'-P	10.71	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	98	DA	O3'-P	10.71	1.74	1.61
11	AB	817	DG	O3'-P	10.71	1.74	1.61
11	AB	958	DG	O3'-P	10.71	1.74	1.61
11	AB	1287	DG	O3'-P	10.71	1.74	1.61
11	AB	1547	DT	O3'-P	10.71	1.74	1.61
11	AB	2062	DG	O3'-P	10.71	1.74	1.61
11	AB	4016	DA	O3'-P	10.71	1.74	1.61
11	AB	6701	DT	O3'-P	10.71	1.74	1.61
40	D5	22	DT	O3'-P	10.71	1.74	1.61
76	G8	3	DG	O3'-P	10.71	1.74	1.61
118	K6	21	DT	O3'-P	10.71	1.74	1.61
11	AB	1663	DT	O3'-P	10.71	1.74	1.61
11	AB	2303	DT	O3'-P	10.71	1.74	1.61
11	AB	2691	DT	O3'-P	10.71	1.74	1.61
11	AB	2736	DT	O3'-P	10.71	1.74	1.61
11	AB	3445	DG	O3'-P	10.71	1.74	1.61
11	AB	3606	DG	O3'-P	10.71	1.74	1.61
11	AB	5884	DG	O3'-P	10.71	1.74	1.61
11	AB	6372	DT	O3'-P	10.71	1.74	1.61
11	AB	3644	DT	O3'-P	10.71	1.74	1.61
11	AB	4105	DG	O3'-P	10.71	1.74	1.61
11	AB	4297	DG	O3'-P	10.71	1.74	1.61
11	AB	5940	DT	O3'-P	10.71	1.74	1.61
11	AB	6136	DG	O3'-P	10.71	1.74	1.61
43	D8	8	DG	O3'-P	10.71	1.74	1.61
44	D9	18	DG	O3'-P	10.71	1.74	1.61
113	JD	3	DG	O3'-P	10.71	1.74	1.61
156	O2	55	DA	O3'-P	10.71	1.74	1.61
169	P6	21	DT	O3'-P	10.71	1.74	1.61
207	T8	20	DT	O3'-P	10.71	1.74	1.61
229	VD	2	DA	O3'-P	10.71	1.74	1.61
237	X7	6	DA	O3'-P	10.71	1.74	1.61
11	AB	5659	DG	O3'-P	10.71	1.74	1.61
11	AB	5990	DA	O3'-P	10.71	1.74	1.61
11	AB	6528	DT	O3'-P	10.71	1.74	1.61
11	AB	6652	DG	O3'-P	10.71	1.74	1.61
11	AB	7208	DG	O3'-P	10.71	1.74	1.61
30	C6	10	DT	O3'-P	10.71	1.74	1.61
36	CD	25	DT	O3'-P	10.71	1.74	1.61
52	E6	5	DA	O3'-P	10.71	1.74	1.61
70	G1	9	DA	O3'-P	10.71	1.74	1.61
91	HD	27	DT	O3'-P	10.71	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
126	L2	25	DA	O3'-P	10.71	1.74	1.61
127	L3	18	DT	O3'-P	10.71	1.74	1.61
130	L7	24	DT	O3'-P	10.71	1.74	1.61
141	M8	26	DA	O3'-P	10.71	1.74	1.61
143	MA	45	DG	O3'-P	10.71	1.74	1.61
146	N2	12	DT	O3'-P	10.71	1.74	1.61
160	O7	13	DG	O3'-P	10.71	1.74	1.61
164	OC	5	DT	O3'-P	10.71	1.74	1.61
188	R7	29	DG	O3'-P	10.71	1.74	1.61
174	PC	23	DG	O3'-P	10.71	1.74	1.61
220	UD	21	DA	O3'-P	10.71	1.74	1.61
89	HA	21	DA	O3'-P	10.71	1.74	1.61
3	A3	1	DT	O3'-P	10.70	1.74	1.61
11	AB	75	DT	O3'-P	10.71	1.74	1.61
11	AB	682	DA	O3'-P	10.71	1.74	1.61
11	AB	859	DG	O3'-P	10.71	1.74	1.61
11	AB	912	DG	O3'-P	10.71	1.74	1.61
11	AB	1007	DG	O3'-P	10.71	1.74	1.61
11	AB	1282	DG	O3'-P	10.71	1.74	1.61
11	AB	1505	DA	O3'-P	10.71	1.74	1.61
11	AB	1403	DA	O3'-P	10.70	1.74	1.61
11	AB	1406	DG	O3'-P	10.71	1.74	1.61
11	AB	1555	DT	O3'-P	10.71	1.74	1.61
11	AB	1809	DA	O3'-P	10.71	1.74	1.61
11	AB	1922	DG	O3'-P	10.71	1.74	1.61
11	AB	2102	DA	O3'-P	10.71	1.74	1.61
11	AB	2371	DA	O3'-P	10.71	1.74	1.61
11	AB	2845	DT	O3'-P	10.71	1.74	1.61
11	AB	3158	DT	O3'-P	10.71	1.74	1.61
11	AB	3300	DT	O3'-P	10.71	1.74	1.61
11	AB	6325	DT	O3'-P	10.71	1.74	1.61
55	E9	39	DA	O3'-P	10.71	1.74	1.61
11	AB	3582	DT	O3'-P	10.70	1.74	1.61
11	AB	3935	DA	O3'-P	10.71	1.74	1.61
11	AB	4107	DG	O3'-P	10.70	1.74	1.61
11	AB	4702	DG	O3'-P	10.71	1.74	1.61
11	AB	4861	DA	O3'-P	10.71	1.74	1.61
11	AB	6240	DT	O3'-P	10.71	1.74	1.61
11	AB	5132	DG	O3'-P	10.70	1.74	1.61
11	AB	5215	DG	O3'-P	10.71	1.74	1.61
11	AB	5453	DT	O3'-P	10.71	1.74	1.61
11	AB	5475	DA	O3'-P	10.71	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5510	DT	O3'-P	10.70	1.74	1.61
11	AB	5681	DG	O3'-P	10.71	1.74	1.61
11	AB	5946	DG	O3'-P	10.70	1.74	1.61
11	AB	5972	DG	O3'-P	10.71	1.74	1.61
11	AB	6734	DG	O3'-P	10.71	1.74	1.61
11	AB	6964	DG	O3'-P	10.71	1.74	1.61
11	AB	7098	DA	O3'-P	10.71	1.74	1.61
11	AB	7226	DT	O3'-P	10.70	1.74	1.61
22	B9	4	DG	O3'-P	10.71	1.74	1.61
39	D3	2	DG	O3'-P	10.71	1.74	1.61
205	T5	13	DA	O3'-P	10.71	1.74	1.61
83	H3	27	DT	O3'-P	10.70	1.74	1.61
93	I2	8	DT	O3'-P	10.70	1.74	1.61
93	I2	45	DG	O3'-P	10.70	1.74	1.61
105	J3	29	DA	O3'-P	10.70	1.74	1.61
124	KD	6	DG	O3'-P	10.71	1.74	1.61
160	O7	1	DG	O3'-P	10.70	1.74	1.61
161	O8	46	DT	O3'-P	10.71	1.74	1.61
167	P3	1	DA	O3'-P	10.70	1.74	1.61
167	P3	20	DA	O3'-P	10.71	1.74	1.61
169	P6	10	DG	O3'-P	10.71	1.74	1.61
175	PD	17	DG	O3'-P	10.71	1.74	1.61
184	QD	1	DA	O3'-P	10.71	1.74	1.61
187	R5	8	DA	O3'-P	10.71	1.74	1.61
213	U3	12	DG	O3'-P	10.71	1.74	1.61
215	U7	11	DG	O3'-P	10.71	1.74	1.61
219	UC	19	DT	O3'-P	10.71	1.74	1.61
237	X7	16	DA	O3'-P	10.70	1.74	1.61
11	AB	498	DG	O3'-P	10.70	1.74	1.61
11	AB	514	DA	O3'-P	10.70	1.74	1.61
11	AB	600	DA	O3'-P	10.70	1.74	1.61
11	AB	750	DG	O3'-P	10.70	1.74	1.61
11	AB	870	DG	O3'-P	10.70	1.74	1.61
209	TA	30	DG	O3'-P	10.70	1.74	1.61
11	AB	199	DA	O3'-P	10.70	1.74	1.61
11	AB	642	DG	O3'-P	10.70	1.74	1.61
11	AB	700	DA	O3'-P	10.70	1.74	1.61
226	V9	15	DG	O3'-P	10.70	1.74	1.61
11	AB	825	DT	O3'-P	10.70	1.74	1.61
11	AB	885	DG	O3'-P	10.70	1.74	1.61
11	AB	1368	DA	O3'-P	10.70	1.74	1.61
11	AB	1389	DA	O3'-P	10.70	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1621	DA	O3'-P	10.70	1.74	1.61
11	AB	1755	DG	O3'-P	10.70	1.74	1.61
11	AB	1797	DG	O3'-P	10.70	1.74	1.61
11	AB	1992	DT	O3'-P	10.70	1.74	1.61
11	AB	2326	DG	O3'-P	10.70	1.74	1.61
11	AB	2460	DT	O3'-P	10.70	1.74	1.61
11	AB	2900	DG	O3'-P	10.70	1.74	1.61
11	AB	3080	DA	O3'-P	10.70	1.74	1.61
11	AB	3463	DA	O3'-P	10.70	1.74	1.61
11	AB	3527	DT	O3'-P	10.70	1.74	1.61
11	AB	3551	DT	O3'-P	10.70	1.74	1.61
11	AB	3577	DA	O3'-P	10.70	1.74	1.61
11	AB	4145	DG	O3'-P	10.70	1.74	1.61
11	AB	4614	DT	O3'-P	10.70	1.74	1.61
11	AB	4667	DG	O3'-P	10.70	1.74	1.61
11	AB	4933	DT	O3'-P	10.70	1.74	1.61
11	AB	5935	DT	O3'-P	10.70	1.74	1.61
11	AB	6960	DT	O3'-P	10.70	1.74	1.61
21	B8	7	DT	O3'-P	10.70	1.74	1.61
139	M6	16	DA	O3'-P	10.70	1.74	1.61
11	AB	4335	DG	O3'-P	10.70	1.74	1.61
11	AB	4876	DA	O3'-P	10.70	1.74	1.61
11	AB	5258	DA	O3'-P	10.70	1.74	1.61
11	AB	5301	DG	O3'-P	10.70	1.74	1.61
11	AB	5391	DG	O3'-P	10.70	1.74	1.61
11	AB	5415	DA	O3'-P	10.70	1.74	1.61
11	AB	5575	DG	O3'-P	10.70	1.74	1.61
11	AB	6376	DA	O3'-P	10.70	1.74	1.61
11	AB	6413	DG	O3'-P	10.70	1.74	1.61
35	CC	9	DA	O3'-P	10.70	1.74	1.61
42	D7	16	DA	O3'-P	10.70	1.74	1.61
11	AB	6763	DA	O3'-P	10.70	1.74	1.61
42	D7	18	DG	O3'-P	10.70	1.74	1.61
43	D8	38	DA	O3'-P	10.70	1.74	1.61
54	E8	33	DT	O3'-P	10.70	1.74	1.61
59	F1	16	DA	O3'-P	10.70	1.74	1.61
82	H2	31	DA	O3'-P	10.70	1.74	1.61
139	M6	9	DT	O3'-P	10.70	1.74	1.61
75	G7	5	DA	O3'-P	10.70	1.74	1.61
88	H9	18	DA	O3'-P	10.70	1.74	1.61
94	I3	18	DA	O3'-P	10.70	1.74	1.61
98	I8	34	DG	O3'-P	10.70	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
103	J1	1	DA	O3'-P	10.70	1.74	1.61
127	L3	16	DA	O3'-P	10.70	1.74	1.61
140	M7	7	DA	O3'-P	10.70	1.74	1.61
156	O2	13	DT	O3'-P	10.70	1.74	1.61
156	O2	16	DA	O3'-P	10.70	1.74	1.61
157	O3	5	DA	O3'-P	10.70	1.74	1.61
182	QA	22	DA	O3'-P	10.70	1.74	1.61
190	R9	40	DA	O3'-P	10.70	1.74	1.61
192	RC	33	DG	O3'-P	10.70	1.74	1.61
209	TA	29	DG	O3'-P	10.70	1.74	1.61
213	U3	3	DT	O3'-P	10.70	1.74	1.61
238	X9	34	DA	O3'-P	10.70	1.74	1.61
5	A5	6	DT	O3'-P	10.70	1.74	1.61
11	AB	736	DA	O3'-P	10.70	1.74	1.61
11	AB	1047	DT	O3'-P	10.70	1.74	1.61
11	AB	1916	DT	O3'-P	10.70	1.74	1.61
11	AB	2953	DA	O3'-P	10.70	1.74	1.61
11	AB	4178	DA	O3'-P	10.70	1.74	1.61
11	AB	5077	DT	O3'-P	10.70	1.74	1.61
11	AB	5189	DA	O3'-P	10.70	1.74	1.61
11	AB	6683	DA	O3'-P	10.70	1.74	1.61
40	D5	18	DG	O3'-P	10.70	1.74	1.61
93	I2	1	DA	O3'-P	10.70	1.74	1.61
94	I3	4	DA	O3'-P	10.70	1.74	1.61
11	AB	5603	DA	O3'-P	10.70	1.74	1.61
11	AB	5988	DA	O3'-P	10.70	1.74	1.61
11	AB	6064	DG	O3'-P	10.70	1.74	1.61
11	AB	6429	DT	O3'-P	10.70	1.74	1.61
11	AB	6537	DA	O3'-P	10.70	1.74	1.61
11	AB	6617	DA	O3'-P	10.70	1.74	1.61
21	B8	2	DA	O3'-P	10.70	1.74	1.61
112	JC	2	DG	O3'-P	10.70	1.74	1.61
165	OD	19	DA	O3'-P	10.70	1.74	1.61
11	AB	6660	DA	O3'-P	10.70	1.74	1.61
11	AB	6804	DA	O3'-P	10.70	1.74	1.61
24	BC	29	DA	O3'-P	10.70	1.74	1.61
114	K1	23	DT	O3'-P	10.70	1.74	1.61
211	TD	8	DA	O3'-P	10.70	1.74	1.61
41	D6	15	DA	O3'-P	10.70	1.74	1.61
54	E8	20	DA	O3'-P	10.70	1.74	1.61
69	FD	42	DA	O3'-P	10.70	1.74	1.61
106	J5	19	DA	O3'-P	10.70	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
106	J5	22	DA	O3'-P	10.70	1.74	1.61
109	J8	2	DG	O3'-P	10.70	1.74	1.61
123	KC	18	DG	O3'-P	10.70	1.74	1.61
145	MD	48	DA	O3'-P	10.70	1.74	1.61
182	QA	16	DA	O3'-P	10.70	1.74	1.61
196	S5	19	DA	O3'-P	10.70	1.74	1.61
189	R8	18	DA	O3'-P	10.70	1.74	1.61
197	S7	14	DT	O3'-P	10.70	1.74	1.61
222	V3	15	DA	O3'-P	10.70	1.74	1.61
2	A2	3	DG	O3'-P	10.70	1.74	1.61
11	AB	53	DG	O3'-P	10.70	1.74	1.61
11	AB	467	DA	O3'-P	10.70	1.74	1.61
11	AB	573	DT	O3'-P	10.70	1.74	1.61
11	AB	2713	DG	O3'-P	10.70	1.74	1.61
11	AB	3494	DT	O3'-P	10.70	1.74	1.61
11	AB	4215	DG	O3'-P	10.70	1.74	1.61
11	AB	4821	DG	O3'-P	10.70	1.74	1.61
97	I7	6	DA	O3'-P	10.70	1.74	1.61
125	L1	55	DG	O3'-P	10.70	1.74	1.61
197	S7	3	DA	O3'-P	10.70	1.74	1.61
11	AB	873	DG	O3'-P	10.69	1.74	1.61
11	AB	882	DG	O3'-P	10.70	1.74	1.61
11	AB	1208	DA	O3'-P	10.70	1.74	1.61
11	AB	1399	DA	O3'-P	10.70	1.74	1.61
11	AB	1442	DG	O3'-P	10.69	1.74	1.61
11	AB	1722	DA	O3'-P	10.70	1.74	1.61
11	AB	2144	DG	O3'-P	10.70	1.74	1.61
11	AB	3916	DG	O3'-P	10.70	1.74	1.61
11	AB	2169	DG	O3'-P	10.69	1.74	1.61
11	AB	2310	DG	O3'-P	10.70	1.74	1.61
11	AB	2449	DA	O3'-P	10.70	1.74	1.61
11	AB	2610	DT	O3'-P	10.70	1.74	1.61
11	AB	3293	DG	O3'-P	10.70	1.74	1.61
11	AB	4838	DA	O3'-P	10.70	1.74	1.61
220	UD	9	DG	O3'-P	10.70	1.74	1.61
11	AB	3953	DG	O3'-P	10.69	1.74	1.61
11	AB	4115	DA	O3'-P	10.70	1.74	1.61
11	AB	4212	DG	O3'-P	10.69	1.74	1.61
11	AB	4593	DT	O3'-P	10.70	1.74	1.61
11	AB	4734	DT	O3'-P	10.70	1.74	1.61
11	AB	4947	DG	O3'-P	10.70	1.74	1.61
11	AB	5017	DG	O3'-P	10.70	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5038	DA	O3'-P	10.70	1.74	1.61
11	AB	5497	DG	O3'-P	10.70	1.74	1.61
11	AB	5737	DA	O3'-P	10.70	1.74	1.61
11	AB	5866	DG	O3'-P	10.70	1.74	1.61
11	AB	6133	DT	O3'-P	10.70	1.74	1.61
11	AB	6288	DA	O3'-P	10.70	1.74	1.61
11	AB	7214	DG	O3'-P	10.70	1.74	1.61
22	B9	31	DA	O3'-P	10.70	1.74	1.61
113	JD	27	DA	O3'-P	10.70	1.74	1.61
145	MD	11	DT	O3'-P	10.70	1.74	1.61
166	P2	21	DG	O3'-P	10.70	1.74	1.61
203	T2	19	DT	O3'-P	10.70	1.74	1.61
11	AB	4943	DG	O3'-P	10.69	1.74	1.61
16	B3	16	DG	O3'-P	10.69	1.74	1.61
30	C6	31	DG	O3'-P	10.69	1.74	1.61
33	C9	11	DA	O3'-P	10.69	1.74	1.61
52	E6	12	DA	O3'-P	10.69	1.74	1.61
60	F2	19	DG	O3'-P	10.69	1.74	1.61
76	G8	6	DG	O3'-P	10.70	1.74	1.61
94	I3	37	DG	O3'-P	10.70	1.74	1.61
107	J6	17	DA	O3'-P	10.69	1.74	1.61
108	J7	45	DA	O3'-P	10.69	1.74	1.61
109	J8	40	DG	O3'-P	10.70	1.74	1.61
113	JD	16	DT	O3'-P	10.69	1.74	1.61
117	K5	6	DT	O3'-P	10.70	1.74	1.61
123	KC	21	DG	O3'-P	10.69	1.74	1.61
125	L1	4	DA	O3'-P	10.70	1.74	1.61
139	M6	15	DT	O3'-P	10.70	1.74	1.61
143	MA	9	DG	O3'-P	10.69	1.74	1.61
144	MC	6	DG	O3'-P	10.69	1.74	1.61
182	QA	20	DG	O3'-P	10.70	1.74	1.61
187	R5	20	DG	O3'-P	10.69	1.74	1.61
191	RA	9	DG	O3'-P	10.69	1.74	1.61
11	AB	354	DA	O3'-P	10.69	1.74	1.61
11	AB	752	DT	O3'-P	10.69	1.74	1.61
11	AB	1729	DA	O3'-P	10.69	1.74	1.61
11	AB	2382	DA	O3'-P	10.69	1.74	1.61
11	AB	4710	DG	O3'-P	10.69	1.74	1.61
22	B9	37	DA	O3'-P	10.69	1.74	1.61
11	AB	298	DA	O3'-P	10.69	1.74	1.61
11	AB	1713	DT	O3'-P	10.69	1.74	1.61
11	AB	2902	DT	O3'-P	10.69	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3646	DT	O3'-P	10.69	1.74	1.61
11	AB	3942	DT	O3'-P	10.69	1.74	1.61
11	AB	4359	DA	O3'-P	10.69	1.74	1.61
11	AB	4388	DA	O3'-P	10.69	1.74	1.61
11	AB	4451	DA	O3'-P	10.69	1.74	1.61
11	AB	5148	DA	O3'-P	10.69	1.74	1.61
11	AB	5323	DG	O3'-P	10.69	1.74	1.61
11	AB	5458	DT	O3'-P	10.69	1.74	1.61
11	AB	5763	DG	O3'-P	10.69	1.74	1.61
74	G6	11	DA	O3'-P	10.69	1.74	1.61
99	I9	6	DA	O3'-P	10.69	1.74	1.61
143	MA	30	DG	O3'-P	10.69	1.74	1.61
11	AB	4869	DT	O3'-P	10.69	1.74	1.61
11	AB	4890	DG	O3'-P	10.69	1.74	1.61
11	AB	5619	DA	O3'-P	10.69	1.74	1.61
11	AB	5955	DG	O3'-P	10.69	1.74	1.61
11	AB	6471	DT	O3'-P	10.69	1.74	1.61
11	AB	6570	DT	O3'-P	10.69	1.74	1.61
33	C9	3	DT	O3'-P	10.69	1.74	1.61
60	F2	28	DA	O3'-P	10.69	1.74	1.61
101	IC	26	DT	O3'-P	10.69	1.74	1.61
105	J3	22	DA	O3'-P	10.69	1.74	1.61
182	QA	4	DA	O3'-P	10.69	1.74	1.61
133	LA	12	DG	O3'-P	10.69	1.74	1.61
144	MC	5	DG	O3'-P	10.69	1.74	1.61
173	PA	25	DT	O3'-P	10.69	1.74	1.61
196	S5	23	DA	O3'-P	10.69	1.74	1.61
199	S9	8	DA	O3'-P	10.69	1.74	1.61
214	U5	17	DG	O3'-P	10.69	1.74	1.61
227	VA	15	DA	O3'-P	10.69	1.74	1.61
238	X9	41	DT	O3'-P	10.69	1.74	1.61
4	A4	16	DT	O3'-P	10.69	1.74	1.61
11	AB	663	DA	O3'-P	10.69	1.74	1.61
11	AB	829	DA	O3'-P	10.69	1.74	1.61
11	AB	3810	DG	O3'-P	10.69	1.74	1.61
11	AB	5127	DA	O3'-P	10.69	1.74	1.61
11	AB	6443	DA	O3'-P	10.69	1.74	1.61
1	A1	9	DA	O3'-P	10.69	1.74	1.61
11	AB	249	DT	O3'-P	10.69	1.74	1.61
11	AB	427	DG	O3'-P	10.69	1.74	1.61
11	AB	442	DG	O3'-P	10.69	1.74	1.61
11	AB	1246	DT	O3'-P	10.69	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1395	DG	O3'-P	10.69	1.74	1.61
11	AB	1501	DG	O3'-P	10.69	1.74	1.61
11	AB	1979	DG	O3'-P	10.69	1.74	1.61
11	AB	2207	DT	O3'-P	10.69	1.74	1.61
11	AB	3568	DG	O3'-P	10.69	1.74	1.61
11	AB	3949	DT	O3'-P	10.69	1.74	1.61
11	AB	4020	DG	O3'-P	10.69	1.74	1.61
11	AB	4071	DG	O3'-P	10.69	1.74	1.61
11	AB	4103	DA	O3'-P	10.69	1.74	1.61
11	AB	6806	DT	O3'-P	10.69	1.74	1.61
11	AB	3697	DG	O3'-P	10.69	1.74	1.61
11	AB	4301	DT	O3'-P	10.69	1.74	1.61
11	AB	4385	DT	O3'-P	10.69	1.74	1.61
11	AB	4896	DA	O3'-P	10.69	1.74	1.61
11	AB	4928	DG	O3'-P	10.69	1.74	1.61
11	AB	4998	DG	O3'-P	10.69	1.74	1.61
11	AB	5074	DT	O3'-P	10.69	1.74	1.61
11	AB	5165	DA	O3'-P	10.69	1.74	1.61
11	AB	5252	DG	O3'-P	10.69	1.74	1.61
11	AB	5521	DG	O3'-P	10.69	1.74	1.61
11	AB	5601	DT	O3'-P	10.69	1.74	1.61
11	AB	5698	DT	O3'-P	10.69	1.74	1.61
11	AB	5740	DA	O3'-P	10.69	1.74	1.61
11	AB	5788	DT	O3'-P	10.69	1.74	1.61
11	AB	6477	DT	O3'-P	10.69	1.74	1.61
11	AB	6609	DA	O3'-P	10.69	1.74	1.61
11	AB	6492	DG	O3'-P	10.69	1.74	1.61
11	AB	6505	DG	O3'-P	10.69	1.74	1.61
37	D1	20	DA	O3'-P	10.69	1.74	1.61
79	GC	23	DA	O3'-P	10.69	1.74	1.61
91	HD	19	DG	O3'-P	10.69	1.74	1.61
122	KA	45	DA	O3'-P	10.69	1.74	1.61
205	T5	2	DG	O3'-P	10.69	1.74	1.61
11	AB	6620	DG	O3'-P	10.69	1.74	1.61
11	AB	6730	DG	O3'-P	10.69	1.74	1.61
11	AB	6821	DG	O3'-P	10.69	1.74	1.61
22	B9	8	DG	O3'-P	10.69	1.74	1.61
27	C2	20	DG	O3'-P	10.69	1.74	1.61
38	D2	17	DG	O3'-P	10.69	1.74	1.61
39	D3	5	DT	O3'-P	10.69	1.74	1.61
47	DD	18	DA	O3'-P	10.69	1.74	1.61
49	E2	42	DA	O3'-P	10.69	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
51	E5	33	DA	O3'-P	10.69	1.74	1.61
54	E8	17	DT	O3'-P	10.69	1.74	1.61
57	EC	14	DG	O3'-P	10.69	1.74	1.61
58	ED	38	DT	O3'-P	10.69	1.74	1.61
61	F3	6	DG	O3'-P	10.69	1.74	1.61
163	OA	9	DA	O3'-P	10.69	1.74	1.61
234	W9	17	DA	O3'-P	10.69	1.74	1.61
62	F5	46	DT	O3'-P	10.69	1.74	1.61
64	F7	8	DT	O3'-P	10.69	1.74	1.61
104	J2	6	DA	O3'-P	10.69	1.74	1.61
114	K1	41	DT	O3'-P	10.69	1.74	1.61
117	K5	3	DG	O3'-P	10.69	1.74	1.61
137	M3	23	DA	O3'-P	10.69	1.74	1.61
148	N5	23	DA	O3'-P	10.69	1.74	1.61
149	N6	10	DT	O3'-P	10.69	1.74	1.61
164	OC	11	DG	O3'-P	10.69	1.74	1.61
166	P2	11	DG	O3'-P	10.69	1.74	1.61
190	R9	45	DG	O3'-P	10.69	1.74	1.61
193	RD	7	DA	O3'-P	10.69	1.74	1.61
204	T3	23	DG	O3'-P	10.69	1.74	1.61
205	T5	5	DA	O3'-P	10.69	1.74	1.61
213	U3	11	DG	O3'-P	10.69	1.74	1.61
218	UA	6	DG	O3'-P	10.69	1.74	1.61
221	V2	18	DT	O3'-P	10.69	1.74	1.61
238	X9	25	DG	O3'-P	10.69	1.74	1.61
238	X9	32	DT	O3'-P	10.69	1.74	1.61
11	AB	5450	DT	O3'-P	10.69	1.74	1.61
11	AB	25	DG	O3'-P	10.69	1.74	1.61
11	AB	417	DT	O3'-P	10.69	1.74	1.61
11	AB	540	DG	O3'-P	10.69	1.74	1.61
11	AB	558	DG	O3'-P	10.69	1.74	1.61
11	AB	960	DT	O3'-P	10.69	1.74	1.61
11	AB	1855	DG	O3'-P	10.69	1.74	1.61
11	AB	5543	DT	O3'-P	10.69	1.74	1.61
11	AB	7235	DG	O3'-P	10.69	1.74	1.61
187	R5	30	DT	O3'-P	10.69	1.74	1.61
11	AB	1281	DG	O3'-P	10.69	1.74	1.61
11	AB	1940	DA	O3'-P	10.69	1.74	1.61
11	AB	2923	DT	O3'-P	10.69	1.74	1.61
11	AB	7244	DA	O3'-P	10.69	1.74	1.61
72	G3	23	DA	O3'-P	10.69	1.74	1.61
103	J1	16	DT	O3'-P	10.69	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
151	N8	4	DA	O3'-P	10.69	1.74	1.61
11	AB	1996	DA	O3'-P	10.69	1.74	1.61
11	AB	2522	DT	O3'-P	10.69	1.74	1.61
11	AB	3484	DA	O3'-P	10.69	1.74	1.61
11	AB	3877	DA	O3'-P	10.69	1.74	1.61
11	AB	4121	DA	O3'-P	10.69	1.74	1.61
11	AB	6725	DT	O3'-P	10.69	1.74	1.61
11	AB	6865	DT	O3'-P	10.69	1.74	1.61
214	U5	8	DG	O3'-P	10.69	1.74	1.61
11	AB	5153	DA	O3'-P	10.69	1.74	1.61
11	AB	6898	DA	O3'-P	10.69	1.74	1.61
16	B3	17	DG	O3'-P	10.69	1.74	1.61
23	BA	23	DA	O3'-P	10.69	1.74	1.61
36	CD	22	DT	O3'-P	10.69	1.74	1.61
86	H7	5	DA	O3'-P	10.69	1.74	1.61
99	I9	20	DG	O3'-P	10.69	1.74	1.61
102	ID	23	DG	O3'-P	10.69	1.74	1.61
104	J2	12	DG	O3'-P	10.69	1.74	1.61
165	OD	26	DA	O3'-P	10.69	1.74	1.61
211	TD	37	DT	O3'-P	10.69	1.74	1.61
104	J2	17	DA	O3'-P	10.69	1.74	1.61
195	S3	10	DA	O3'-P	10.69	1.74	1.61
201	SC	17	DA	O3'-P	10.69	1.74	1.61
213	U3	10	DG	O3'-P	10.69	1.74	1.61
3	A3	11	DT	O3'-P	10.68	1.74	1.61
11	AB	5084	DG	O3'-P	10.68	1.74	1.61
11	AB	137	DG	O3'-P	10.68	1.74	1.61
11	AB	748	DA	O3'-P	10.68	1.74	1.61
11	AB	1441	DG	O3'-P	10.68	1.74	1.61
11	AB	1882	DG	O3'-P	10.68	1.74	1.61
11	AB	2842	DT	O3'-P	10.68	1.74	1.61
11	AB	2994	DA	O3'-P	10.68	1.74	1.61
11	AB	3018	DA	O3'-P	10.68	1.74	1.61
11	AB	3636	DG	O3'-P	10.68	1.74	1.61
11	AB	3762	DT	O3'-P	10.68	1.74	1.61
11	AB	4131	DG	O3'-P	10.68	1.74	1.61
11	AB	4543	DT	O3'-P	10.68	1.74	1.61
11	AB	5211	DA	O3'-P	10.68	1.74	1.61
11	AB	5590	DT	O3'-P	10.68	1.74	1.61
11	AB	5793	DG	O3'-P	10.68	1.74	1.61
11	AB	5983	DT	O3'-P	10.68	1.74	1.61
125	L1	54	DG	O3'-P	10.68	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6034	DT	O3'-P	10.68	1.74	1.61
11	AB	6411	DT	O3'-P	10.68	1.74	1.61
11	AB	6952	DA	O3'-P	10.68	1.74	1.61
19	B6	11	DA	O3'-P	10.68	1.74	1.61
82	H2	33	DT	O3'-P	10.68	1.74	1.61
126	L2	7	DA	O3'-P	10.68	1.74	1.61
94	I3	26	DA	O3'-P	10.68	1.74	1.61
98	I8	25	DG	O3'-P	10.68	1.74	1.61
119	K7	10	DA	O3'-P	10.68	1.74	1.61
122	KA	12	DG	O3'-P	10.68	1.74	1.61
147	N3	16	DT	O3'-P	10.68	1.74	1.61
147	N3	20	DG	O3'-P	10.68	1.74	1.61
160	O7	32	DA	O3'-P	10.68	1.74	1.61
184	QD	3	DA	O3'-P	10.68	1.74	1.61
186	R3	19	DG	O3'-P	10.68	1.74	1.61
206	T7	12	DG	O3'-P	10.68	1.74	1.61
227	VA	26	DA	O3'-P	10.68	1.74	1.61
2	A2	29	DT	O3'-P	10.68	1.74	1.61
11	AB	44	DG	O3'-P	10.68	1.74	1.61
11	AB	49	DT	O3'-P	10.68	1.74	1.61
11	AB	822	DT	O3'-P	10.68	1.74	1.61
11	AB	1242	DT	O3'-P	10.68	1.74	1.61
11	AB	2044	DG	O3'-P	10.68	1.74	1.61
11	AB	4110	DG	O3'-P	10.68	1.74	1.61
11	AB	4532	DG	O3'-P	10.68	1.74	1.61
11	AB	5333	DA	O3'-P	10.68	1.74	1.61
11	AB	5962	DA	O3'-P	10.68	1.74	1.61
11	AB	6104	DT	O3'-P	10.68	1.74	1.61
11	AB	7089	DA	O3'-P	10.68	1.74	1.61
60	F2	24	DG	O3'-P	10.68	1.74	1.61
103	J1	13	DG	O3'-P	10.68	1.74	1.61
122	KA	27	DG	O3'-P	10.68	1.74	1.61
6	A6	13	DA	O3'-P	10.68	1.74	1.61
10	AA	11	DG	O3'-P	10.68	1.74	1.61
11	AB	95	DT	O3'-P	10.68	1.74	1.61
11	AB	104	DA	O3'-P	10.68	1.74	1.61
11	AB	113	DG	O3'-P	10.68	1.74	1.61
11	AB	271	DA	O3'-P	10.68	1.74	1.61
11	AB	279	DA	O3'-P	10.68	1.74	1.61
11	AB	292	DA	O3'-P	10.68	1.74	1.61
11	AB	386	DG	O3'-P	10.68	1.74	1.61
11	AB	590	DG	O3'-P	10.68	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	833	DG	O3'-P	10.68	1.74	1.61
11	AB	879	DG	O3'-P	10.68	1.74	1.61
11	AB	893	DG	O3'-P	10.68	1.74	1.61
11	AB	900	DG	O3'-P	10.68	1.74	1.61
11	AB	933	DT	O3'-P	10.68	1.74	1.61
11	AB	1043	DA	O3'-P	10.68	1.74	1.61
11	AB	1573	DG	O3'-P	10.68	1.74	1.61
11	AB	1750	DG	O3'-P	10.68	1.74	1.61
11	AB	1866	DA	O3'-P	10.68	1.74	1.61
11	AB	1905	DG	O3'-P	10.68	1.74	1.61
11	AB	2099	DT	O3'-P	10.68	1.74	1.61
11	AB	1981	DG	O3'-P	10.68	1.74	1.61
11	AB	2451	DG	O3'-P	10.68	1.74	1.61
11	AB	2637	DA	O3'-P	10.68	1.74	1.61
11	AB	3212	DG	O3'-P	10.68	1.74	1.61
11	AB	3408	DG	O3'-P	10.68	1.74	1.61
11	AB	4085	DG	O3'-P	10.68	1.74	1.61
11	AB	5371	DA	O3'-P	10.68	1.74	1.61
11	AB	5827	DA	O3'-P	10.68	1.74	1.61
11	AB	6844	DA	O3'-P	10.68	1.74	1.61
11	AB	7204	DT	O3'-P	10.68	1.74	1.61
93	I2	17	DA	O3'-P	10.68	1.74	1.61
115	K2	15	DG	O3'-P	10.68	1.74	1.61
143	MA	40	DG	O3'-P	10.68	1.74	1.61
152	N9	23	DG	O3'-P	10.68	1.74	1.61
174	PC	19	DG	O3'-P	10.68	1.74	1.61
179	Q7	21	DG	O3'-P	10.68	1.74	1.61
11	AB	2331	DA	O3'-P	10.68	1.74	1.61
11	AB	2352	DA	O3'-P	10.68	1.74	1.61
11	AB	4127	DG	O3'-P	10.68	1.74	1.61
11	AB	4547	DA	O3'-P	10.68	1.74	1.61
11	AB	4805	DT	O3'-P	10.68	1.74	1.61
11	AB	5554	DA	O3'-P	10.68	1.74	1.61
11	AB	5798	DG	O3'-P	10.68	1.74	1.61
11	AB	6116	DA	O3'-P	10.68	1.74	1.61
11	AB	6349	DG	O3'-P	10.68	1.74	1.61
11	AB	6773	DG	O3'-P	10.68	1.74	1.61
11	AB	7018	DG	O3'-P	10.68	1.74	1.61
27	C2	5	DG	O3'-P	10.68	1.74	1.61
58	ED	29	DG	O3'-P	10.68	1.74	1.61
11	AB	7241	DG	O3'-P	10.68	1.74	1.61
37	D1	31	DG	O3'-P	10.68	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	D8	22	DA	O3'-P	10.68	1.74	1.61
44	D9	3	DA	O3'-P	10.68	1.74	1.61
52	E6	16	DG	O3'-P	10.68	1.74	1.61
63	F6	9	DG	O3'-P	10.68	1.74	1.61
117	K5	7	DA	O3'-P	10.68	1.74	1.61
123	KC	24	DA	O3'-P	10.68	1.74	1.61
128	L5	10	DG	O3'-P	10.68	1.74	1.61
129	L6	27	DA	O3'-P	10.68	1.74	1.61
143	MA	43	DG	O3'-P	10.68	1.74	1.61
144	MC	4	DG	O3'-P	10.68	1.74	1.61
187	R5	10	DG	O3'-P	10.68	1.74	1.61
187	R5	38	DA	O3'-P	10.68	1.74	1.61
214	U5	2	DT	O3'-P	10.68	1.74	1.61
192	RC	26	DT	O3'-P	10.68	1.74	1.61
210	TC	26	DA	O3'-P	10.68	1.74	1.61
214	U5	21	DG	O3'-P	10.68	1.74	1.61
218	UA	7	DG	O3'-P	10.68	1.74	1.61
227	VA	20	DG	O3'-P	10.68	1.74	1.61
11	AB	525	DG	O3'-P	10.68	1.74	1.61
11	AB	1510	DT	O3'-P	10.68	1.74	1.61
11	AB	1706	DG	O3'-P	10.68	1.74	1.61
11	AB	2210	DT	O3'-P	10.68	1.74	1.61
11	AB	2758	DT	O3'-P	10.68	1.74	1.61
11	AB	2763	DA	O3'-P	10.68	1.74	1.61
11	AB	3142	DG	O3'-P	10.68	1.74	1.61
11	AB	3219	DG	O3'-P	10.68	1.74	1.61
11	AB	3621	DG	O3'-P	10.68	1.74	1.61
11	AB	3832	DA	O3'-P	10.68	1.74	1.61
11	AB	4249	DG	O3'-P	10.68	1.74	1.61
11	AB	4859	DG	O3'-P	10.68	1.74	1.61
11	AB	5658	DG	O3'-P	10.68	1.74	1.61
11	AB	6448	DG	O3'-P	10.68	1.74	1.61
11	AB	7017	DG	O3'-P	10.68	1.74	1.61
21	B8	15	DG	O3'-P	10.68	1.74	1.61
26	C1	13	DT	O3'-P	10.68	1.74	1.61
63	F6	14	DA	O3'-P	10.68	1.74	1.61
64	F7	19	DG	O3'-P	10.68	1.74	1.61
68	FC	17	DG	O3'-P	10.68	1.74	1.61
83	H3	9	DT	O3'-P	10.68	1.74	1.61
86	H7	21	DG	O3'-P	10.68	1.74	1.61
88	H9	27	DG	O3'-P	10.68	1.74	1.61
107	J6	43	DG	O3'-P	10.68	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
118	K6	9	DG	O3'-P	10.68	1.74	1.61
126	L2	41	DA	O3'-P	10.68	1.74	1.61
133	LA	6	DG	O3'-P	10.68	1.74	1.61
143	MA	35	DA	O3'-P	10.68	1.74	1.61
152	N9	33	DA	O3'-P	10.68	1.74	1.61
163	OA	2	DG	O3'-P	10.68	1.74	1.61
173	PA	8	DA	O3'-P	10.68	1.74	1.61
190	R9	43	DA	O3'-P	10.68	1.74	1.61
221	V2	5	DA	O3'-P	10.68	1.74	1.61
223	V5	37	DG	O3'-P	10.68	1.74	1.61
235	WD	15	DA	O3'-P	10.68	1.74	1.61
11	AB	228	DG	O3'-P	10.67	1.74	1.61
11	AB	1769	DG	O3'-P	10.67	1.74	1.61
11	AB	2040	DA	O3'-P	10.67	1.74	1.61
11	AB	5830	DA	O3'-P	10.67	1.74	1.61
90	HC	18	DA	O3'-P	10.67	1.74	1.61
11	AB	1075	DT	O3'-P	10.67	1.74	1.61
11	AB	2175	DT	O3'-P	10.67	1.74	1.61
11	AB	2265	DT	O3'-P	10.67	1.74	1.61
11	AB	2455	DG	O3'-P	10.67	1.74	1.61
11	AB	2959	DA	O3'-P	10.67	1.74	1.61
11	AB	2971	DT	O3'-P	10.67	1.74	1.61
11	AB	4118	DG	O3'-P	10.67	1.74	1.61
11	AB	4214	DG	O3'-P	10.67	1.74	1.61
11	AB	4545	DT	O3'-P	10.67	1.74	1.61
11	AB	4634	DA	O3'-P	10.67	1.74	1.61
11	AB	4637	DG	O3'-P	10.67	1.74	1.61
11	AB	4747	DG	O3'-P	10.67	1.74	1.61
11	AB	4845	DG	O3'-P	10.67	1.74	1.61
11	AB	5001	DG	O3'-P	10.67	1.74	1.61
11	AB	5121	DA	O3'-P	10.67	1.74	1.61
11	AB	5504	DT	O3'-P	10.67	1.74	1.61
11	AB	5851	DA	O3'-P	10.67	1.74	1.61
84	H5	16	DT	O3'-P	10.67	1.74	1.61
90	HC	8	DG	O3'-P	10.67	1.74	1.61
11	AB	5860	DG	O3'-P	10.67	1.74	1.61
45	DA	17	DA	O3'-P	10.67	1.74	1.61
101	IC	18	DG	O3'-P	10.67	1.74	1.61
181	Q9	6	DA	O3'-P	10.67	1.74	1.61
122	KA	5	DG	O3'-P	10.67	1.74	1.61
189	R8	27	DG	O3'-P	10.67	1.74	1.61
233	W8	13	DG	O3'-P	10.67	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	305	DG	O3'-P	10.67	1.74	1.61
11	AB	456	DG	O3'-P	10.67	1.74	1.61
11	AB	676	DG	O3'-P	10.67	1.74	1.61
11	AB	1692	DT	O3'-P	10.67	1.74	1.61
11	AB	1959	DT	O3'-P	10.67	1.74	1.61
11	AB	2839	DT	O3'-P	10.67	1.74	1.61
11	AB	3043	DG	O3'-P	10.67	1.74	1.61
11	AB	3874	DA	O3'-P	10.67	1.74	1.61
11	AB	4670	DA	O3'-P	10.67	1.74	1.61
11	AB	1920	DA	O3'-P	10.67	1.74	1.61
11	AB	3050	DA	O3'-P	10.67	1.74	1.61
11	AB	3213	DG	O3'-P	10.67	1.74	1.61
11	AB	3652	DG	O3'-P	10.67	1.74	1.61
11	AB	5276	DG	O3'-P	10.67	1.74	1.61
11	AB	7109	DG	O3'-P	10.67	1.74	1.61
11	AB	3228	DA	O3'-P	10.67	1.74	1.61
11	AB	3721	DA	O3'-P	10.67	1.74	1.61
11	AB	4631	DA	O3'-P	10.67	1.74	1.61
47	DD	9	DA	O3'-P	10.67	1.74	1.61
11	AB	4887	DA	O3'-P	10.67	1.74	1.61
11	AB	4920	DG	O3'-P	10.67	1.74	1.61
11	AB	5139	DT	O3'-P	10.67	1.74	1.61
11	AB	5410	DG	O3'-P	10.67	1.74	1.61
11	AB	5929	DA	O3'-P	10.67	1.74	1.61
13	AD	14	DG	O3'-P	10.67	1.74	1.61
46	DC	12	DA	O3'-P	10.67	1.74	1.61
57	EC	3	DA	O3'-P	10.67	1.74	1.61
93	I2	25	DG	O3'-P	10.67	1.74	1.61
108	J7	7	DG	O3'-P	10.67	1.74	1.61
186	R3	5	DG	O3'-P	10.67	1.74	1.61
203	T2	23	DT	O3'-P	10.67	1.74	1.61
94	I3	39	DG	O3'-P	10.67	1.74	1.61
128	L5	13	DT	O3'-P	10.67	1.74	1.61
136	M2	16	DG	O3'-P	10.67	1.74	1.61
136	M2	17	DG	O3'-P	10.67	1.74	1.61
173	PA	34	DA	O3'-P	10.67	1.74	1.61
174	PC	5	DA	O3'-P	10.67	1.74	1.61
205	T5	15	DA	O3'-P	10.67	1.74	1.61
137	M3	31	DA	O3'-P	10.67	1.74	1.61
212	U2	18	DT	O3'-P	10.67	1.74	1.61
231	W5	15	DT	O3'-P	10.67	1.74	1.61
234	W9	7	DG	O3'-P	10.67	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	A7	15	DG	O3'-P	10.67	1.74	1.61
11	AB	657	DA	O3'-P	10.67	1.74	1.61
11	AB	856	DG	O3'-P	10.67	1.74	1.61
11	AB	894	DG	O3'-P	10.67	1.74	1.61
11	AB	908	DG	O3'-P	10.67	1.74	1.61
11	AB	915	DG	O3'-P	10.67	1.74	1.61
11	AB	1559	DG	O3'-P	10.67	1.74	1.61
11	AB	2011	DA	O3'-P	10.67	1.74	1.61
11	AB	3168	DG	O3'-P	10.67	1.74	1.61
11	AB	5019	DG	O3'-P	10.67	1.74	1.61
45	DA	14	DG	O3'-P	10.67	1.74	1.61
11	AB	1756	DG	O3'-P	10.67	1.74	1.61
11	AB	2952	DT	O3'-P	10.67	1.74	1.61
11	AB	3046	DT	O3'-P	10.67	1.74	1.61
11	AB	3394	DG	O3'-P	10.67	1.74	1.61
11	AB	3615	DT	O3'-P	10.67	1.74	1.61
11	AB	3637	DG	O3'-P	10.67	1.74	1.61
11	AB	4073	DG	O3'-P	10.67	1.74	1.61
11	AB	4813	DG	O3'-P	10.67	1.74	1.61
11	AB	5411	DG	O3'-P	10.67	1.74	1.61
11	AB	5594	DG	O3'-P	10.67	1.74	1.61
11	AB	6141	DG	O3'-P	10.67	1.74	1.61
11	AB	6520	DG	O3'-P	10.67	1.74	1.61
108	J7	11	DG	O3'-P	10.67	1.74	1.61
113	JD	23	DA	O3'-P	10.67	1.74	1.61
138	M5	3	DA	O3'-P	10.67	1.74	1.61
143	MA	17	DA	O3'-P	10.67	1.74	1.61
152	N9	26	DG	O3'-P	10.67	1.74	1.61
201	SC	8	DA	O3'-P	10.67	1.74	1.61
5	A5	8	DG	O3'-P	10.66	1.74	1.61
11	AB	1011	DG	O3'-P	10.66	1.74	1.61
11	AB	1967	DG	O3'-P	10.66	1.74	1.61
11	AB	3511	DT	O3'-P	10.66	1.74	1.61
11	AB	3541	DG	O3'-P	10.66	1.74	1.61
11	AB	4628	DG	O3'-P	10.66	1.74	1.61
11	AB	4865	DG	O3'-P	10.66	1.74	1.61
11	AB	4901	DG	O3'-P	10.66	1.74	1.61
11	AB	4925	DG	O3'-P	10.66	1.74	1.61
11	AB	5468	DG	O3'-P	10.66	1.74	1.61
11	AB	5889	DA	O3'-P	10.66	1.74	1.61
11	AB	7010	DT	O3'-P	10.66	1.74	1.61
11	AB	7224	DA	O3'-P	10.66	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
88	H9	4	DT	O3'-P	10.66	1.74	1.61
102	ID	4	DG	O3'-P	10.66	1.74	1.61
149	N6	50	DG	O3'-P	10.66	1.74	1.61
11	AB	4	DT	O3'-P	10.66	1.74	1.61
11	AB	19	DG	O3'-P	10.66	1.74	1.61
11	AB	5241	DG	O3'-P	10.66	1.74	1.61
11	AB	6474	DG	O3'-P	10.66	1.74	1.61
11	AB	447	DT	O3'-P	10.66	1.74	1.61
11	AB	480	DG	O3'-P	10.66	1.74	1.61
11	AB	791	DG	O3'-P	10.66	1.74	1.61
11	AB	1165	DG	O3'-P	10.66	1.74	1.61
11	AB	2950	DG	O3'-P	10.66	1.74	1.61
11	AB	4622	DG	O3'-P	10.66	1.74	1.61
11	AB	5695	DG	O3'-P	10.66	1.74	1.61
11	AB	6796	DT	O3'-P	10.66	1.74	1.61
11	AB	1184	DT	O3'-P	10.66	1.74	1.61
11	AB	1883	DG	O3'-P	10.66	1.74	1.61
11	AB	3956	DT	O3'-P	10.66	1.74	1.61
11	AB	4716	DA	O3'-P	10.66	1.74	1.61
11	AB	4850	DG	O3'-P	10.66	1.74	1.61
11	AB	5035	DG	O3'-P	10.66	1.74	1.61
11	AB	5530	DT	O3'-P	10.66	1.74	1.61
11	AB	6004	DG	O3'-P	10.66	1.74	1.61
11	AB	6995	DT	O3'-P	10.66	1.74	1.61
23	BA	17	DG	O3'-P	10.66	1.74	1.61
31	C7	19	DG	O3'-P	10.66	1.74	1.61
35	CC	26	DA	O3'-P	10.66	1.74	1.61
148	N5	10	DT	O3'-P	10.66	1.74	1.61
171	P8	6	DT	O3'-P	10.66	1.74	1.61
174	PC	26	DG	O3'-P	10.66	1.74	1.61
188	R7	2	DG	O3'-P	10.66	1.74	1.61
1	A1	27	DA	O3'-P	10.66	1.74	1.61
11	AB	369	DA	O3'-P	10.66	1.74	1.61
11	AB	1095	DG	O3'-P	10.66	1.74	1.61
11	AB	948	DT	O3'-P	10.66	1.74	1.61
11	AB	1182	DG	O3'-P	10.66	1.74	1.61
11	AB	2588	DG	O3'-P	10.66	1.74	1.61
11	AB	3002	DT	O3'-P	10.66	1.74	1.61
11	AB	3940	DT	O3'-P	10.66	1.74	1.61
11	AB	1305	DT	O3'-P	10.66	1.74	1.61
11	AB	2024	DT	O3'-P	10.66	1.74	1.61
11	AB	2465	DA	O3'-P	10.66	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2836	DT	O3'-P	10.66	1.74	1.61
11	AB	3206	DA	O3'-P	10.66	1.74	1.61
11	AB	3662	DT	O3'-P	10.66	1.74	1.61
11	AB	3717	DT	O3'-P	10.66	1.74	1.61
11	AB	3957	DA	O3'-P	10.66	1.74	1.61
11	AB	4161	DT	O3'-P	10.66	1.74	1.61
11	AB	4213	DG	O3'-P	10.66	1.74	1.61
11	AB	4508	DG	O3'-P	10.66	1.74	1.61
11	AB	4563	DA	O3'-P	10.66	1.74	1.61
11	AB	4891	DG	O3'-P	10.66	1.74	1.61
11	AB	4990	DA	O3'-P	10.66	1.74	1.61
11	AB	5917	DT	O3'-P	10.66	1.74	1.61
11	AB	6073	DA	O3'-P	10.66	1.74	1.61
11	AB	6409	DT	O3'-P	10.66	1.74	1.61
11	AB	6950	DA	O3'-P	10.66	1.74	1.61
43	D8	30	DT	O3'-P	10.66	1.74	1.61
49	E2	4	DG	O3'-P	10.66	1.74	1.61
54	E8	14	DT	O3'-P	10.66	1.74	1.61
73	G5	11	DA	O3'-P	10.66	1.74	1.61
91	HD	23	DA	O3'-P	10.66	1.74	1.61
92	I1	14	DG	O3'-P	10.66	1.74	1.61
156	O2	18	DG	O3'-P	10.66	1.74	1.61
71	G2	7	DT	O3'-P	10.66	1.74	1.61
100	IA	10	DA	O3'-P	10.66	1.74	1.61
170	P7	6	DT	O3'-P	10.66	1.74	1.61
171	P8	10	DT	O3'-P	10.66	1.74	1.61
211	TD	41	DG	O3'-P	10.66	1.74	1.61
178	Q5	2	DA	O3'-P	10.66	1.74	1.61
198	S8	32	DA	O3'-P	10.66	1.74	1.61
238	X9	13	DA	O3'-P	10.66	1.74	1.61
11	AB	1521	DG	O3'-P	10.66	1.74	1.61
11	AB	1640	DG	O3'-P	10.66	1.74	1.61
11	AB	3897	DA	O3'-P	10.66	1.74	1.61
30	C6	16	DG	O3'-P	10.66	1.74	1.61
11	AB	57	DT	O3'-P	10.66	1.74	1.61
11	AB	349	DA	O3'-P	10.66	1.74	1.61
11	AB	726	DG	O3'-P	10.66	1.74	1.61
11	AB	1122	DT	O3'-P	10.66	1.74	1.61
11	AB	1498	DT	O3'-P	10.66	1.74	1.61
11	AB	2435	DG	O3'-P	10.66	1.74	1.61
11	AB	2745	DA	O3'-P	10.66	1.74	1.61
11	AB	3442	DG	O3'-P	10.66	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3903	DT	O3'-P	10.66	1.74	1.61
11	AB	4027	DA	O3'-P	10.66	1.74	1.61
11	AB	4034	DA	O3'-P	10.66	1.74	1.61
11	AB	4267	DA	O3'-P	10.66	1.74	1.61
11	AB	4342	DA	O3'-P	10.66	1.74	1.61
11	AB	4704	DA	O3'-P	10.66	1.74	1.61
11	AB	5158	DT	O3'-P	10.66	1.74	1.61
11	AB	5213	DT	O3'-P	10.66	1.74	1.61
11	AB	5445	DA	O3'-P	10.66	1.74	1.61
11	AB	5470	DT	O3'-P	10.66	1.74	1.61
11	AB	5630	DA	O3'-P	10.66	1.74	1.61
11	AB	5864	DG	O3'-P	10.66	1.74	1.61
11	AB	6363	DA	O3'-P	10.66	1.74	1.61
11	AB	6553	DA	O3'-P	10.66	1.74	1.61
13	AD	28	DG	O3'-P	10.66	1.74	1.61
109	J8	17	DT	O3'-P	10.66	1.74	1.61
170	P7	12	DG	O3'-P	10.66	1.74	1.61
226	V9	29	DA	O3'-P	10.66	1.74	1.61
11	AB	6370	DA	O3'-P	10.66	1.74	1.61
11	AB	6391	DA	O3'-P	10.66	1.74	1.61
11	AB	6885	DT	O3'-P	10.66	1.74	1.61
11	AB	6972	DA	O3'-P	10.66	1.74	1.61
14	B1	4	DT	O3'-P	10.66	1.74	1.61
62	F5	32	DT	O3'-P	10.66	1.74	1.61
72	G3	1	DT	O3'-P	10.66	1.74	1.61
82	H2	24	DA	O3'-P	10.66	1.74	1.61
108	J7	20	DG	O3'-P	10.66	1.74	1.61
188	R7	19	DT	O3'-P	10.66	1.74	1.61
95	I5	36	DG	O3'-P	10.66	1.74	1.61
103	J1	6	DA	O3'-P	10.66	1.74	1.61
117	K5	12	DT	O3'-P	10.66	1.74	1.61
131	L8	26	DG	O3'-P	10.66	1.74	1.61
144	MC	2	DA	O3'-P	10.66	1.74	1.61
128	L5	2	DT	O3'-P	10.66	1.74	1.61
156	O2	37	DA	O3'-P	10.66	1.74	1.61
156	O2	51	DA	O3'-P	10.66	1.74	1.61
220	UD	12	DT	O3'-P	10.66	1.74	1.61
164	OC	14	DG	O3'-P	10.66	1.74	1.61
178	Q5	41	DA	O3'-P	10.66	1.74	1.61
194	S2	10	DA	O3'-P	10.66	1.74	1.61
199	S9	14	DT	O3'-P	10.66	1.74	1.61
202	SD	25	DA	O3'-P	10.66	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
217	U9	21	DG	O3'-P	10.66	1.74	1.61
224	V7	11	DA	O3'-P	10.66	1.74	1.61
11	AB	2	DT	O3'-P	10.65	1.74	1.61
11	AB	274	DA	O3'-P	10.65	1.74	1.61
11	AB	478	DA	O3'-P	10.65	1.74	1.61
11	AB	2171	DG	O3'-P	10.65	1.74	1.61
11	AB	3010	DT	O3'-P	10.65	1.74	1.61
11	AB	4088	DG	O3'-P	10.65	1.74	1.61
11	AB	5892	DG	O3'-P	10.65	1.74	1.61
11	AB	5900	DA	O3'-P	10.65	1.74	1.61
22	B9	19	DT	O3'-P	10.65	1.74	1.61
24	BC	22	DG	O3'-P	10.65	1.74	1.61
113	JD	12	DG	O3'-P	10.65	1.74	1.61
148	N5	29	DG	O3'-P	10.65	1.74	1.61
11	AB	678	DA	O3'-P	10.65	1.74	1.61
11	AB	2238	DG	O3'-P	10.65	1.74	1.61
11	AB	3694	DT	O3'-P	10.65	1.74	1.61
11	AB	4187	DG	O3'-P	10.65	1.74	1.61
11	AB	4774	DA	O3'-P	10.65	1.74	1.61
11	AB	4941	DT	O3'-P	10.65	1.74	1.61
11	AB	5191	DG	O3'-P	10.65	1.74	1.61
11	AB	6702	DA	O3'-P	10.65	1.74	1.61
11	AB	6936	DG	O3'-P	10.65	1.74	1.61
59	F1	6	DT	O3'-P	10.65	1.74	1.61
85	H6	16	DG	O3'-P	10.65	1.74	1.61
82	H2	17	DT	O3'-P	10.65	1.74	1.61
117	K5	43	DG	O3'-P	10.65	1.74	1.61
149	N6	6	DT	O3'-P	10.65	1.74	1.61
165	OD	15	DA	O3'-P	10.65	1.74	1.61
165	OD	43	DT	O3'-P	10.65	1.74	1.61
196	S5	15	DA	O3'-P	10.65	1.74	1.61
203	T2	20	DA	O3'-P	10.65	1.74	1.61
209	TA	14	DG	O3'-P	10.65	1.74	1.61
223	V5	22	DG	O3'-P	10.65	1.74	1.61
231	W5	13	DG	O3'-P	10.65	1.74	1.61
11	AB	738	DG	O3'-P	10.65	1.74	1.61
11	AB	1229	DT	O3'-P	10.65	1.74	1.61
11	AB	1848	DG	O3'-P	10.65	1.74	1.61
11	AB	3338	DA	O3'-P	10.65	1.74	1.61
11	AB	4254	DT	O3'-P	10.65	1.74	1.61
62	F5	6	DT	O3'-P	10.65	1.74	1.61
65	F8	5	DT	O3'-P	10.65	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
76	G8	13	DA	O3'-P	10.65	1.74	1.61
94	I3	20	DG	O3'-P	10.65	1.74	1.61
177	Q3	19	DG	O3'-P	10.65	1.74	1.61
1	A1	25	DA	O3'-P	10.65	1.74	1.61
5	A5	23	DG	O3'-P	10.65	1.74	1.61
11	AB	287	DT	O3'-P	10.65	1.74	1.61
11	AB	2397	DT	O3'-P	10.65	1.74	1.61
11	AB	3039	DG	O3'-P	10.65	1.74	1.61
11	AB	3373	DA	O3'-P	10.65	1.74	1.61
11	AB	3913	DG	O3'-P	10.65	1.74	1.61
11	AB	4004	DG	O3'-P	10.65	1.74	1.61
11	AB	4303	DG	O3'-P	10.65	1.74	1.61
11	AB	4257	DA	O3'-P	10.65	1.74	1.61
11	AB	4314	DG	O3'-P	10.65	1.74	1.61
11	AB	4517	DG	O3'-P	10.65	1.74	1.61
11	AB	5412	DG	O3'-P	10.65	1.74	1.61
11	AB	6130	DG	O3'-P	10.65	1.74	1.61
11	AB	6646	DG	O3'-P	10.65	1.74	1.61
11	AB	7177	DG	O3'-P	10.65	1.74	1.61
20	B7	7	DA	O3'-P	10.65	1.74	1.61
31	C7	32	DA	O3'-P	10.65	1.74	1.61
72	G3	12	DT	O3'-P	10.65	1.74	1.61
92	I1	7	DT	O3'-P	10.65	1.74	1.61
109	J8	25	DG	O3'-P	10.65	1.74	1.61
119	K7	7	DT	O3'-P	10.65	1.74	1.61
131	L8	23	DA	O3'-P	10.65	1.74	1.61
132	L9	11	DG	O3'-P	10.65	1.74	1.61
160	O7	28	DA	O3'-P	10.65	1.74	1.61
213	U3	21	DT	O3'-P	10.65	1.74	1.61
215	U7	17	DT	O3'-P	10.65	1.74	1.61
197	S7	19	DT	O3'-P	10.65	1.74	1.61
207	T8	15	DA	O3'-P	10.65	1.74	1.61
1	A1	44	DA	O3'-P	10.65	1.74	1.61
1	A1	51	DT	O3'-P	10.65	1.74	1.61
9	A9	18	DG	O3'-P	10.65	1.74	1.61
11	AB	4147	DT	O3'-P	10.65	1.74	1.61
75	G7	21	DA	O3'-P	10.65	1.74	1.61
11	AB	123	DG	O3'-P	10.65	1.74	1.61
11	AB	604	DT	O3'-P	10.65	1.74	1.61
11	AB	1464	DT	O3'-P	10.65	1.74	1.61
11	AB	3084	DT	O3'-P	10.65	1.74	1.61
11	AB	5632	DT	O3'-P	10.65	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6313	DT	O3'-P	10.65	1.74	1.61
11	AB	6329	DA	O3'-P	10.65	1.74	1.61
35	CC	33	DA	O3'-P	10.65	1.74	1.61
47	DD	43	DA	O3'-P	10.65	1.74	1.61
55	E9	24	DT	O3'-P	10.65	1.74	1.61
82	H2	11	DT	O3'-P	10.65	1.74	1.61
82	H2	28	DT	O3'-P	10.65	1.74	1.61
149	N6	31	DT	O3'-P	10.65	1.74	1.61
156	O2	29	DG	O3'-P	10.65	1.74	1.61
156	O2	32	DA	O3'-P	10.65	1.74	1.61
209	TA	40	DT	O3'-P	10.65	1.74	1.61
217	U9	15	DT	O3'-P	10.65	1.74	1.61
11	AB	201	DT	O3'-P	10.65	1.74	1.61
11	AB	259	DA	O3'-P	10.65	1.74	1.61
11	AB	671	DT	O3'-P	10.65	1.74	1.61
11	AB	897	DG	O3'-P	10.65	1.74	1.61
11	AB	2412	DT	O3'-P	10.65	1.74	1.61
11	AB	3711	DT	O3'-P	10.65	1.74	1.61
11	AB	4230	DT	O3'-P	10.65	1.74	1.61
11	AB	4912	DA	O3'-P	10.65	1.74	1.61
11	AB	5281	DT	O3'-P	10.65	1.74	1.61
92	I1	13	DG	O3'-P	10.65	1.74	1.61
208	T9	20	DT	O3'-P	10.65	1.74	1.61
11	AB	5378	DT	O3'-P	10.65	1.74	1.61
11	AB	5528	DT	O3'-P	10.65	1.74	1.61
11	AB	6987	DA	O3'-P	10.65	1.74	1.61
18	B5	24	DA	O3'-P	10.65	1.74	1.61
49	E2	12	DT	O3'-P	10.65	1.74	1.61
89	HA	31	DT	O3'-P	10.65	1.74	1.61
90	HC	15	DG	O3'-P	10.65	1.74	1.61
95	I5	37	DG	O3'-P	10.65	1.74	1.61
175	PD	9	DA	O3'-P	10.65	1.74	1.61
11	AB	543	DA	O3'-P	10.64	1.74	1.61
11	AB	717	DT	O3'-P	10.64	1.74	1.61
11	AB	2013	DG	O3'-P	10.64	1.74	1.61
11	AB	316	DG	O3'-P	10.64	1.74	1.61
11	AB	923	DG	O3'-P	10.64	1.74	1.61
11	AB	1036	DA	O3'-P	10.64	1.74	1.61
11	AB	1238	DA	O3'-P	10.64	1.74	1.61
11	AB	1386	DT	O3'-P	10.64	1.74	1.61
11	AB	1737	DT	O3'-P	10.64	1.74	1.61
11	AB	1524	DT	O3'-P	10.64	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1629	DA	O3'-P	10.64	1.74	1.61
11	AB	1645	DT	O3'-P	10.64	1.74	1.61
11	AB	1690	DT	O3'-P	10.64	1.74	1.61
11	AB	1785	DA	O3'-P	10.64	1.74	1.61
11	AB	2387	DA	O3'-P	10.64	1.74	1.61
11	AB	7105	DT	O3'-P	10.64	1.74	1.61
11	AB	7113	DA	O3'-P	10.64	1.74	1.61
11	AB	3148	DT	O3'-P	10.64	1.74	1.61
11	AB	4501	DT	O3'-P	10.64	1.74	1.61
11	AB	5339	DT	O3'-P	10.64	1.74	1.61
11	AB	5545	DT	O3'-P	10.64	1.74	1.61
11	AB	5995	DA	O3'-P	10.64	1.74	1.61
59	F1	12	DT	O3'-P	10.64	1.74	1.61
109	J8	8	DA	O3'-P	10.64	1.74	1.61
11	AB	6081	DT	O3'-P	10.64	1.74	1.61
11	AB	7053	DT	O3'-P	10.64	1.74	1.61
11	AB	7057	DT	O3'-P	10.64	1.74	1.61
37	D1	23	DA	O3'-P	10.64	1.74	1.61
37	D1	27	DT	O3'-P	10.64	1.74	1.61
41	D6	41	DT	O3'-P	10.64	1.74	1.61
64	F7	16	DT	O3'-P	10.64	1.74	1.61
77	G9	4	DA	O3'-P	10.64	1.74	1.61
84	H5	30	DT	O3'-P	10.64	1.74	1.61
91	HD	10	DT	O3'-P	10.64	1.74	1.61
104	J2	9	DA	O3'-P	10.64	1.74	1.61
118	K6	14	DT	O3'-P	10.64	1.74	1.61
122	KA	17	DT	O3'-P	10.64	1.74	1.61
131	L8	25	DG	O3'-P	10.64	1.74	1.61
149	N6	2	DG	O3'-P	10.64	1.74	1.61
204	T3	42	DA	O3'-P	10.64	1.74	1.61
226	V9	20	DA	O3'-P	10.64	1.74	1.61
11	AB	2108	DT	O3'-P	10.64	1.74	1.61
11	AB	3112	DT	O3'-P	10.64	1.74	1.61
11	AB	3589	DT	O3'-P	10.64	1.74	1.61
11	AB	4288	DA	O3'-P	10.64	1.74	1.61
11	AB	4587	DA	O3'-P	10.64	1.74	1.61
95	I5	6	DT	O3'-P	10.64	1.74	1.61
106	J5	15	DT	O3'-P	10.64	1.74	1.61
148	N5	20	DA	O3'-P	10.64	1.74	1.61
11	AB	5010	DG	O3'-P	10.64	1.74	1.61
11	AB	5426	DA	O3'-P	10.64	1.74	1.61
61	F3	9	DG	O3'-P	10.64	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
180	Q8	10	DG	O3'-P	10.64	1.74	1.61
130	L7	31	DT	O3'-P	10.64	1.74	1.61
11	AB	306	DG	O3'-P	10.64	1.74	1.61
11	AB	1060	DG	O3'-P	10.64	1.74	1.61
11	AB	1080	DA	O3'-P	10.64	1.74	1.61
11	AB	1599	DT	O3'-P	10.64	1.74	1.61
11	AB	2184	DG	O3'-P	10.64	1.74	1.61
41	D6	19	DG	O3'-P	10.64	1.74	1.61
64	F7	21	DT	O3'-P	10.64	1.74	1.61
111	JA	8	DA	O3'-P	10.64	1.74	1.61
11	AB	708	DA	O3'-P	10.64	1.74	1.61
11	AB	1092	DG	O3'-P	10.64	1.74	1.61
11	AB	1788	DG	O3'-P	10.64	1.74	1.61
11	AB	4040	DT	O3'-P	10.64	1.74	1.61
93	I2	47	DT	O3'-P	10.64	1.74	1.61
11	AB	1906	DG	O3'-P	10.64	1.74	1.61
11	AB	2822	DT	O3'-P	10.64	1.74	1.61
11	AB	5134	DG	O3'-P	10.64	1.74	1.61
11	AB	5704	DG	O3'-P	10.64	1.74	1.61
11	AB	6138	DT	O3'-P	10.64	1.74	1.61
11	AB	6550	DT	O3'-P	10.64	1.74	1.61
30	C6	22	DA	O3'-P	10.64	1.74	1.61
58	ED	35	DT	O3'-P	10.64	1.74	1.61
32	C8	18	DG	O3'-P	10.64	1.74	1.61
41	D6	5	DG	O3'-P	10.64	1.74	1.61
60	F2	12	DG	O3'-P	10.64	1.74	1.61
79	GC	1	DT	O3'-P	10.64	1.74	1.61
87	H8	23	DA	O3'-P	10.64	1.74	1.61
90	HC	22	DA	O3'-P	10.64	1.74	1.61
93	I2	12	DA	O3'-P	10.64	1.74	1.61
94	I3	57	DG	O3'-P	10.64	1.74	1.61
156	O2	4	DT	O3'-P	10.64	1.74	1.61
199	S9	10	DG	O3'-P	10.64	1.74	1.61
103	J1	22	DT	O3'-P	10.64	1.74	1.61
146	N2	22	DG	O3'-P	10.64	1.74	1.61
156	O2	47	DA	O3'-P	10.64	1.74	1.61
173	PA	27	DA	O3'-P	10.64	1.74	1.61
181	Q9	24	DA	O3'-P	10.64	1.74	1.61
230	W3	45	DT	O3'-P	10.64	1.74	1.61
10	AA	9	DA	O3'-P	10.63	1.74	1.61
11	AB	777	DT	O3'-P	10.63	1.74	1.61
11	AB	862	DG	O3'-P	10.64	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1467	DT	O3'-P	10.64	1.74	1.61
11	AB	4184	DG	O3'-P	10.64	1.74	1.61
11	AB	7148	DT	O3'-P	10.64	1.74	1.61
70	G1	13	DT	O3'-P	10.64	1.74	1.61
11	AB	1149	DA	O3'-P	10.63	1.74	1.61
11	AB	2178	DG	O3'-P	10.63	1.74	1.61
11	AB	2447	DA	O3'-P	10.63	1.74	1.61
11	AB	2672	DT	O3'-P	10.63	1.74	1.61
11	AB	3508	DT	O3'-P	10.63	1.74	1.61
11	AB	4152	DT	O3'-P	10.63	1.74	1.61
11	AB	4590	DG	O3'-P	10.63	1.74	1.61
11	AB	5109	DA	O3'-P	10.63	1.74	1.61
11	AB	6689	DT	O3'-P	10.63	1.74	1.61
233	W8	7	DT	O3'-P	10.64	1.74	1.61
11	AB	6707	DT	O3'-P	10.63	1.74	1.61
11	AB	6791	DT	O3'-P	10.63	1.74	1.61
11	AB	6846	DA	O3'-P	10.63	1.74	1.61
29	C5	22	DA	O3'-P	10.63	1.74	1.61
36	CD	10	DA	O3'-P	10.63	1.74	1.61
107	J6	40	DG	O3'-P	10.64	1.74	1.61
79	GC	15	DT	O3'-P	10.63	1.74	1.61
120	K8	1	DT	O3'-P	10.63	1.74	1.61
122	KA	24	DA	O3'-P	10.63	1.74	1.61
160	O7	10	DA	O3'-P	10.63	1.74	1.61
163	OA	17	DT	O3'-P	10.63	1.74	1.61
178	Q5	11	DT	O3'-P	10.63	1.74	1.61
214	U5	25	DT	O3'-P	10.63	1.74	1.61
237	X7	14	DA	O3'-P	10.63	1.74	1.61
2	A2	25	DG	O3'-P	10.63	1.74	1.61
195	S3	1	DG	O3'-P	10.63	1.74	1.61
5	A5	29	DA	O3'-P	10.63	1.74	1.61
11	AB	390	DG	O3'-P	10.63	1.74	1.61
11	AB	1117	DA	O3'-P	10.63	1.74	1.61
11	AB	1425	DT	O3'-P	10.63	1.74	1.61
11	AB	1477	DT	O3'-P	10.63	1.74	1.61
11	AB	1656	DT	O3'-P	10.63	1.74	1.61
11	AB	2390	DG	O3'-P	10.63	1.74	1.61
11	AB	2520	DT	O3'-P	10.63	1.74	1.61
11	AB	3628	DG	O3'-P	10.63	1.74	1.61
11	AB	4083	DG	O3'-P	10.63	1.74	1.61
11	AB	3732	DT	O3'-P	10.63	1.74	1.61
11	AB	4051	DA	O3'-P	10.63	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4286	DT	O3'-P	10.63	1.74	1.61
11	AB	4173	DT	O3'-P	10.63	1.74	1.61
11	AB	4330	DA	O3'-P	10.63	1.74	1.61
11	AB	6076	DT	O3'-P	10.63	1.74	1.61
11	AB	6106	DT	O3'-P	10.63	1.74	1.61
23	BA	7	DT	O3'-P	10.63	1.74	1.61
25	BD	8	DA	O3'-P	10.63	1.74	1.61
39	D3	12	DT	O3'-P	10.63	1.74	1.61
41	D6	12	DA	O3'-P	10.63	1.74	1.61
45	DA	6	DT	O3'-P	10.63	1.74	1.61
51	E5	25	DG	O3'-P	10.63	1.74	1.61
52	E6	36	DA	O3'-P	10.63	1.74	1.61
115	K2	9	DG	O3'-P	10.63	1.74	1.61
119	K7	16	DA	O3'-P	10.63	1.74	1.61
141	M8	8	DA	O3'-P	10.63	1.74	1.61
162	O9	15	DA	O3'-P	10.63	1.74	1.61
189	R8	36	DA	O3'-P	10.63	1.74	1.61
209	TA	20	DT	O3'-P	10.63	1.74	1.61
223	V5	24	DT	O3'-P	10.63	1.74	1.61
11	AB	504	DA	O3'-P	10.63	1.74	1.61
11	AB	928	DG	O3'-P	10.63	1.74	1.61
11	AB	1338	DG	O3'-P	10.63	1.74	1.61
11	AB	1591	DG	O3'-P	10.63	1.74	1.61
11	AB	1654	DT	O3'-P	10.63	1.74	1.61
11	AB	2445	DT	O3'-P	10.63	1.74	1.61
11	AB	3829	DT	O3'-P	10.63	1.74	1.61
11	AB	4460	DT	O3'-P	10.63	1.74	1.61
11	AB	4581	DA	O3'-P	10.63	1.74	1.61
11	AB	2896	DA	O3'-P	10.63	1.74	1.61
11	AB	4822	DG	O3'-P	10.63	1.74	1.61
11	AB	5094	DT	O3'-P	10.63	1.74	1.61
11	AB	6880	DT	O3'-P	10.63	1.74	1.61
11	AB	7003	DG	O3'-P	10.63	1.74	1.61
11	AB	7190	DG	O3'-P	10.63	1.74	1.61
18	B5	3	DG	O3'-P	10.63	1.74	1.61
46	DC	16	DG	O3'-P	10.63	1.74	1.61
69	FD	33	DT	O3'-P	10.63	1.74	1.61
82	H2	7	DT	O3'-P	10.63	1.74	1.61
99	I9	15	DT	O3'-P	10.63	1.74	1.61
64	F7	28	DT	O3'-P	10.63	1.74	1.61
134	LC	16	DG	O3'-P	10.63	1.74	1.61
151	N8	20	DG	O3'-P	10.63	1.74	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
187	R5	15	DT	O3'-P	10.63	1.74	1.61
11	AB	661	DG	O3'-P	10.63	1.74	1.61
11	AB	852	DG	O3'-P	10.63	1.74	1.61
11	AB	1811	DG	O3'-P	10.62	1.73	1.61
11	AB	1813	DT	O3'-P	10.63	1.74	1.61
11	AB	3488	DA	O3'-P	10.62	1.74	1.61
11	AB	4816	DA	O3'-P	10.62	1.74	1.61
11	AB	5508	DT	O3'-P	10.63	1.74	1.61
11	AB	6168	DG	O3'-P	10.63	1.74	1.61
11	AB	6192	DT	O3'-P	10.63	1.74	1.61
70	G1	2	DA	O3'-P	10.63	1.74	1.61
11	AB	6687	DT	O3'-P	10.62	1.73	1.61
11	AB	6861	DT	O3'-P	10.62	1.73	1.61
190	R9	16	DT	O3'-P	10.62	1.74	1.61
210	TC	21	DA	O3'-P	10.62	1.73	1.61
230	W3	30	DT	O3'-P	10.62	1.74	1.61
38	D2	8	DA	O3'-P	10.62	1.73	1.61
11	AB	41	DG	O3'-P	10.62	1.73	1.61
11	AB	185	DT	O3'-P	10.62	1.73	1.61
11	AB	1099	DT	O3'-P	10.62	1.73	1.61
11	AB	2674	DG	O3'-P	10.62	1.73	1.61
13	AD	17	DA	O3'-P	10.62	1.73	1.61
11	AB	4770	DT	O3'-P	10.62	1.73	1.61
11	AB	5047	DG	O3'-P	10.62	1.73	1.61
11	AB	5062	DG	O3'-P	10.62	1.73	1.61
11	AB	5173	DT	O3'-P	10.62	1.73	1.61
18	B5	11	DG	O3'-P	10.62	1.73	1.61
48	E1	15	DA	O3'-P	10.62	1.73	1.61
53	E7	11	DG	O3'-P	10.62	1.73	1.61
84	H5	28	DA	O3'-P	10.62	1.73	1.61
94	I3	51	DA	O3'-P	10.62	1.73	1.61
144	MC	18	DT	O3'-P	10.62	1.73	1.61
155	ND	4	DT	O3'-P	10.62	1.73	1.61
179	Q7	5	DT	O3'-P	10.62	1.73	1.61
216	U8	12	DA	O3'-P	10.62	1.73	1.61
11	AB	488	DA	O3'-P	10.62	1.73	1.61
11	AB	2644	DA	O3'-P	10.62	1.73	1.61
11	AB	4480	DG	O3'-P	10.62	1.73	1.61
11	AB	6271	DT	O3'-P	10.62	1.73	1.61
158	O5	25	DA	O3'-P	10.62	1.73	1.61
161	O8	19	DA	O3'-P	10.62	1.73	1.61
7	A7	36	DT	O3'-P	10.62	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	886	DG	O3'-P	10.62	1.73	1.61
11	AB	1146	DG	O3'-P	10.62	1.73	1.61
11	AB	2480	DT	O3'-P	10.62	1.73	1.61
11	AB	3345	DT	O3'-P	10.62	1.73	1.61
11	AB	4854	DG	O3'-P	10.62	1.73	1.61
30	C6	13	DT	O3'-P	10.62	1.73	1.61
34	CA	18	DT	O3'-P	10.62	1.73	1.61
39	D3	7	DT	O3'-P	10.62	1.73	1.61
69	FD	15	DA	O3'-P	10.62	1.73	1.61
167	P3	18	DA	O3'-P	10.62	1.73	1.61
11	AB	6406	DG	O3'-P	10.62	1.73	1.61
11	AB	6546	DT	O3'-P	10.62	1.73	1.61
11	AB	6644	DT	O3'-P	10.62	1.73	1.61
11	AB	6938	DT	O3'-P	10.62	1.73	1.61
41	D6	43	DA	O3'-P	10.62	1.73	1.61
48	E1	1	DT	O3'-P	10.62	1.73	1.61
145	MD	13	DG	O3'-P	10.62	1.73	1.61
154	NC	22	DA	O3'-P	10.62	1.73	1.61
5	A5	33	DT	O3'-P	10.62	1.73	1.61
11	AB	462	DA	O3'-P	10.62	1.73	1.61
11	AB	511	DT	O3'-P	10.62	1.73	1.61
149	N6	45	DA	O3'-P	10.62	1.73	1.61
11	AB	763	DA	O3'-P	10.61	1.73	1.61
11	AB	1181	DG	O3'-P	10.62	1.73	1.61
11	AB	1494	DG	O3'-P	10.62	1.73	1.61
11	AB	2259	DA	O3'-P	10.62	1.73	1.61
11	AB	2853	DT	O3'-P	10.62	1.73	1.61
11	AB	3358	DA	O3'-P	10.61	1.73	1.61
11	AB	4339	DT	O3'-P	10.61	1.73	1.61
11	AB	4435	DT	O3'-P	10.62	1.73	1.61
97	I7	30	DG	O3'-P	10.62	1.73	1.61
11	AB	4781	DA	O3'-P	10.61	1.73	1.61
11	AB	6039	DT	O3'-P	10.61	1.73	1.61
11	AB	6188	DG	O3'-P	10.61	1.73	1.61
11	AB	6215	DT	O3'-P	10.62	1.73	1.61
94	I3	58	DG	O3'-P	10.61	1.73	1.61
11	AB	197	DT	O3'-P	10.61	1.73	1.61
11	AB	4930	DA	O3'-P	10.61	1.73	1.61
177	Q3	17	DT	O3'-P	10.61	1.73	1.61
178	Q5	38	DG	O3'-P	10.61	1.73	1.61
191	RA	26	DG	O3'-P	10.61	1.73	1.61
11	AB	262	DT	O3'-P	10.61	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	L5	19	DA	O3'-P	10.61	1.73	1.61
192	RC	22	DT	O3'-P	10.61	1.73	1.61
206	T7	19	DA	O3'-P	10.61	1.73	1.61
11	AB	2914	DT	O3'-P	10.61	1.73	1.61
11	AB	5344	DA	O3'-P	10.61	1.73	1.61
29	C5	32	DG	O3'-P	10.61	1.73	1.61
7	A7	22	DT	O3'-P	10.61	1.73	1.61
11	AB	520	DT	O3'-P	10.61	1.73	1.61
11	AB	1953	DT	O3'-P	10.61	1.73	1.61
11	AB	3120	DT	O3'-P	10.61	1.73	1.61
11	AB	3436	DT	O3'-P	10.61	1.73	1.61
11	AB	6269	DG	O3'-P	10.61	1.73	1.61
11	AB	6465	DT	O3'-P	10.61	1.73	1.61
11	AB	6658	DT	O3'-P	10.61	1.73	1.61
14	B1	30	DA	O3'-P	10.61	1.73	1.61
93	I2	39	DT	O3'-P	10.61	1.73	1.61
192	RC	10	DG	O3'-P	10.61	1.73	1.61
223	V5	29	DA	O3'-P	10.61	1.73	1.61
6	A6	15	DT	O3'-P	10.61	1.73	1.61
11	AB	39	DT	O3'-P	10.61	1.73	1.61
11	AB	720	DT	O3'-P	10.61	1.73	1.61
11	AB	1419	DT	O3'-P	10.61	1.73	1.61
11	AB	1742	DT	O3'-P	10.61	1.73	1.61
11	AB	2245	DT	O3'-P	10.61	1.73	1.61
11	AB	2982	DA	O3'-P	10.61	1.73	1.61
11	AB	3619	DA	O3'-P	10.61	1.73	1.61
11	AB	4978	DT	O3'-P	10.61	1.73	1.61
18	B5	1	DT	O3'-P	10.61	1.73	1.61
147	N3	25	DG	O3'-P	10.61	1.73	1.61
153	NA	8	DT	O3'-P	10.61	1.73	1.61
159	O6	15	DT	O3'-P	10.61	1.73	1.61
204	T3	12	DT	O3'-P	10.61	1.73	1.61
226	V9	17	DT	O3'-P	10.61	1.73	1.61
7	A7	30	DA	O3'-P	10.60	1.73	1.61
11	AB	1580	DT	O3'-P	10.60	1.73	1.61
11	AB	812	DT	O3'-P	10.60	1.73	1.61
11	AB	2165	DA	O3'-P	10.60	1.73	1.61
11	AB	2316	DT	O3'-P	10.60	1.73	1.61
11	AB	3974	DT	O3'-P	10.60	1.73	1.61
11	AB	4059	DA	O3'-P	10.60	1.73	1.61
11	AB	6432	DT	O3'-P	10.60	1.73	1.61
11	AB	6469	DA	O3'-P	10.60	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
79	GC	10	DA	O3'-P	10.60	1.73	1.61
114	K1	38	DA	O3'-P	10.60	1.73	1.61
121	K9	23	DA	O3'-P	10.60	1.73	1.61
230	W3	15	DA	O3'-P	10.60	1.73	1.61
238	X9	42	DA	O3'-P	10.60	1.73	1.61
122	KA	30	DT	O3'-P	10.60	1.73	1.61
184	QD	6	DA	O3'-P	10.60	1.73	1.61
11	AB	2241	DA	O3'-P	10.60	1.73	1.61
11	AB	2649	DT	O3'-P	10.60	1.73	1.61
11	AB	356	DT	O3'-P	10.60	1.73	1.61
11	AB	943	DG	O3'-P	10.60	1.73	1.61
11	AB	1473	DT	O3'-P	10.60	1.73	1.61
11	AB	2250	DT	O3'-P	10.60	1.73	1.61
11	AB	4602	DG	O3'-P	10.60	1.73	1.61
11	AB	4672	DG	O3'-P	10.60	1.73	1.61
73	G5	4	DT	O3'-P	10.60	1.73	1.61
93	I2	24	DG	O3'-P	10.60	1.73	1.61
112	JC	4	DG	O3'-P	10.60	1.73	1.61
165	OD	38	DA	O3'-P	10.60	1.73	1.61
218	UA	13	DG	O3'-P	10.60	1.73	1.61
11	AB	3055	DT	O3'-P	10.60	1.73	1.61
26	C1	26	DA	O3'-P	10.60	1.73	1.61
58	ED	16	DA	O3'-P	10.60	1.73	1.61
11	AB	1484	DA	O3'-P	10.60	1.73	1.61
11	AB	4394	DT	O3'-P	10.60	1.73	1.61
11	AB	5185	DT	O3'-P	10.60	1.73	1.61
11	AB	4484	DG	O3'-P	10.60	1.73	1.61
11	AB	4499	DA	O3'-P	10.60	1.73	1.61
11	AB	5204	DG	O3'-P	10.60	1.73	1.61
11	AB	5534	DG	O3'-P	10.60	1.73	1.61
11	AB	5980	DA	O3'-P	10.60	1.73	1.61
11	AB	7020	DT	O3'-P	10.60	1.73	1.61
11	AB	7171	DT	O3'-P	10.60	1.73	1.61
130	L7	41	DA	O3'-P	10.60	1.73	1.61
11	AB	757	DT	O3'-P	10.59	1.73	1.61
11	AB	710	DT	O3'-P	10.59	1.73	1.61
11	AB	1197	DG	O3'-P	10.59	1.73	1.61
11	AB	1672	DT	O3'-P	10.59	1.73	1.61
11	AB	5024	DG	O3'-P	10.59	1.73	1.61
33	C9	13	DG	O3'-P	10.59	1.73	1.61
159	O6	10	DG	O3'-P	10.59	1.73	1.61
204	T3	20	DG	O3'-P	10.59	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4182	DT	O3'-P	10.59	1.73	1.61
11	AB	5032	DT	O3'-P	10.59	1.73	1.61
11	AB	6015	DA	O3'-P	10.59	1.73	1.61
19	B6	21	DT	O3'-P	10.59	1.73	1.61
181	Q9	36	DT	O3'-P	10.59	1.73	1.61
11	AB	903	DT	O3'-P	10.59	1.73	1.61
11	AB	1265	DT	O3'-P	10.59	1.73	1.61
11	AB	1931	DT	O3'-P	10.59	1.73	1.61
11	AB	2635	DT	O3'-P	10.59	1.73	1.61
11	AB	3911	DT	O3'-P	10.59	1.73	1.61
11	AB	3967	DT	O3'-P	10.59	1.73	1.61
11	AB	5758	DT	O3'-P	10.59	1.73	1.61
11	AB	7140	DT	O3'-P	10.59	1.73	1.61
166	P2	23	DT	O3'-P	10.59	1.73	1.61
11	AB	867	DG	O3'-P	10.59	1.73	1.61
11	AB	2236	DT	O3'-P	10.59	1.73	1.61
11	AB	3271	DT	O3'-P	10.59	1.73	1.61
11	AB	6061	DT	O3'-P	10.59	1.73	1.61
21	B8	19	DT	O3'-P	10.59	1.73	1.61
34	CA	14	DT	O3'-P	10.59	1.73	1.61
56	EA	17	DT	O3'-P	10.59	1.73	1.61
145	MD	3	DT	O3'-P	10.59	1.73	1.61
179	Q7	17	DT	O3'-P	10.59	1.73	1.61
208	T9	17	DT	O3'-P	10.59	1.73	1.61
11	AB	6	DT	O3'-P	10.58	1.73	1.61
11	AB	311	DT	O3'-P	10.58	1.73	1.61
11	AB	1585	DT	O3'-P	10.58	1.73	1.61
11	AB	2534	DT	O3'-P	10.58	1.73	1.61
11	AB	2651	DT	O3'-P	10.58	1.73	1.61
11	AB	2743	DT	O3'-P	10.58	1.73	1.61
11	AB	2787	DT	O3'-P	10.58	1.73	1.61
11	AB	3109	DT	O3'-P	10.58	1.73	1.61
11	AB	3210	DT	O3'-P	10.58	1.73	1.61
11	AB	6839	DT	O3'-P	10.58	1.73	1.61
133	LA	14	DT	O3'-P	10.58	1.73	1.61
11	AB	3555	DG	O3'-P	10.58	1.73	1.61
11	AB	5100	DT	O3'-P	10.58	1.73	1.61
11	AB	5197	DT	O3'-P	10.58	1.73	1.61
11	AB	6612	DT	O3'-P	10.58	1.73	1.61
51	E5	9	DT	O3'-P	10.58	1.73	1.61
150	N7	8	DT	O3'-P	10.58	1.73	1.61
195	S3	13	DT	O3'-P	10.58	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	30	DT	O3'-P	10.58	1.73	1.61
11	AB	918	DT	O3'-P	10.58	1.73	1.61
228	VC	17	DT	O3'-P	10.58	1.73	1.61
11	AB	1189	DT	O3'-P	10.58	1.73	1.61
11	AB	2528	DT	O3'-P	10.58	1.73	1.61
11	AB	4505	DT	O3'-P	10.58	1.73	1.61
11	AB	6914	DT	O3'-P	10.58	1.73	1.61
126	L2	38	DA	O3'-P	10.58	1.73	1.61
149	N6	34	DA	O3'-P	10.58	1.73	1.61
204	T3	27	DT	O3'-P	10.58	1.73	1.61
11	AB	1108	DT	O3'-P	10.58	1.73	1.61
11	AB	2769	DT	O3'-P	10.58	1.73	1.61
11	AB	3601	DT	O3'-P	10.58	1.73	1.61
11	AB	4641	DT	O3'-P	10.58	1.73	1.61
11	AB	7044	DT	O3'-P	10.58	1.73	1.61
178	Q5	21	DT	O3'-P	10.58	1.73	1.61
84	H5	37	DT	O3'-P	10.58	1.73	1.61
93	I2	4	DT	O3'-P	10.58	1.73	1.61
98	I8	20	DT	O3'-P	10.58	1.73	1.61
171	P8	26	DT	O3'-P	10.58	1.73	1.61
191	RA	24	DT	O3'-P	10.58	1.73	1.61
11	AB	2657	DT	O3'-P	10.57	1.73	1.61
11	AB	2875	DT	O3'-P	10.57	1.73	1.61
11	AB	4192	DT	O3'-P	10.57	1.73	1.61
11	AB	5404	DT	O3'-P	10.57	1.73	1.61
130	L7	20	DT	O3'-P	10.57	1.73	1.61
140	M7	1	DT	O3'-P	10.57	1.73	1.61
11	AB	5105	DT	O3'-P	10.57	1.73	1.61
11	AB	5489	DA	O3'-P	10.57	1.73	1.61
11	AB	6711	DT	O3'-P	10.57	1.73	1.61
97	I7	19	DA	O3'-P	10.57	1.73	1.61
101	IC	16	DT	O3'-P	10.57	1.73	1.61
108	J7	27	DT	O3'-P	10.57	1.73	1.61
142	M9	17	DT	O3'-P	10.57	1.73	1.61
178	Q5	36	DT	O3'-P	10.57	1.73	1.61
184	QD	22	DT	O3'-P	10.57	1.73	1.61
11	AB	1352	DT	O3'-P	10.57	1.73	1.61
11	AB	2058	DT	O3'-P	10.57	1.73	1.61
11	AB	2318	DT	O3'-P	10.57	1.73	1.61
11	AB	3253	DT	O3'-P	10.57	1.73	1.61
11	AB	3920	DT	O3'-P	10.57	1.73	1.61
11	AB	4918	DT	O3'-P	10.57	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6334	DT	O3'-P	10.57	1.73	1.61
11	AB	1925	DT	O3'-P	10.57	1.73	1.61
11	AB	2646	DT	O3'-P	10.57	1.73	1.61
11	AB	4691	DT	O3'-P	10.57	1.73	1.61
11	AB	2739	DT	O3'-P	10.57	1.73	1.61
11	AB	4828	DT	O3'-P	10.57	1.73	1.61
166	P2	19	DT	O3'-P	10.57	1.73	1.61
11	AB	6201	DT	O3'-P	10.57	1.73	1.61
11	AB	6277	DT	O3'-P	10.57	1.73	1.61
11	AB	7116	DT	O3'-P	10.57	1.73	1.61
14	B1	40	DT	O3'-P	10.57	1.73	1.61
98	I8	11	DT	O3'-P	10.57	1.73	1.61
52	E6	25	DT	O3'-P	10.57	1.73	1.61
121	K9	6	DT	O3'-P	10.57	1.73	1.61
147	N3	33	DT	O3'-P	10.57	1.73	1.61
161	O8	42	DT	O3'-P	10.57	1.73	1.61
220	UD	17	DT	O3'-P	10.57	1.73	1.61
11	AB	1292	DA	O3'-P	10.57	1.73	1.61
11	AB	1625	DT	O3'-P	10.57	1.73	1.61
11	AB	2453	DT	O3'-P	10.57	1.73	1.61
11	AB	3411	DT	O3'-P	10.57	1.73	1.61
14	B1	37	DT	O3'-P	10.57	1.73	1.61
21	B8	10	DT	O3'-P	10.57	1.73	1.61
11	AB	518	DT	O3'-P	10.57	1.73	1.61
11	AB	3748	DT	O3'-P	10.57	1.73	1.61
11	AB	6052	DT	O3'-P	10.57	1.73	1.61
11	AB	6283	DT	O3'-P	10.57	1.73	1.61
11	AB	6382	DT	O3'-P	10.57	1.73	1.61
11	AB	6532	DT	O3'-P	10.57	1.73	1.61
49	E2	18	DT	O3'-P	10.57	1.73	1.61
11	AB	6851	DT	O3'-P	10.57	1.73	1.61
167	P3	15	DT	O3'-P	10.57	1.73	1.61
179	Q7	11	DT	O3'-P	10.57	1.73	1.61
11	AB	116	DT	O3'-P	10.56	1.73	1.61
11	AB	145	DT	O3'-P	10.56	1.73	1.61
11	AB	166	DT	O3'-P	10.56	1.73	1.61
11	AB	533	DT	O3'-P	10.56	1.73	1.61
11	AB	587	DT	O3'-P	10.56	1.73	1.61
161	O8	49	DT	O3'-P	10.56	1.73	1.61
11	AB	1173	DT	O3'-P	10.56	1.73	1.61
11	AB	1206	DT	O3'-P	10.56	1.73	1.61
11	AB	1435	DT	O3'-P	10.56	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1871	DT	O3'-P	10.56	1.73	1.61
11	AB	1903	DT	O3'-P	10.56	1.73	1.61
11	AB	2141	DT	O3'-P	10.56	1.73	1.61
11	AB	2252	DT	O3'-P	10.56	1.73	1.61
11	AB	4166	DT	O3'-P	10.56	1.73	1.61
11	AB	4171	DT	O3'-P	10.56	1.73	1.61
11	AB	4346	DT	O3'-P	10.56	1.73	1.61
11	AB	4210	DT	O3'-P	10.56	1.73	1.61
11	AB	4447	DT	O3'-P	10.56	1.73	1.61
11	AB	5248	DG	O3'-P	10.56	1.73	1.61
11	AB	5676	DT	O3'-P	10.56	1.73	1.61
11	AB	6111	DT	O3'-P	10.56	1.73	1.61
11	AB	6144	DT	O3'-P	10.56	1.73	1.61
11	AB	6195	DT	O3'-P	10.56	1.73	1.61
11	AB	6275	DT	O3'-P	10.56	1.73	1.61
11	AB	7167	DT	O3'-P	10.56	1.73	1.61
23	BA	14	DT	O3'-P	10.56	1.73	1.61
31	C7	16	DT	O3'-P	10.56	1.73	1.61
33	C9	18	DT	O3'-P	10.56	1.73	1.61
83	H3	14	DT	O3'-P	10.56	1.73	1.61
149	N6	38	DT	O3'-P	10.56	1.73	1.61
180	Q8	15	DT	O3'-P	10.56	1.73	1.61
208	T9	14	DT	O3'-P	10.56	1.73	1.61
232	W7	24	DT	O3'-P	10.56	1.73	1.61
11	AB	772	DT	O3'-P	10.56	1.73	1.61
11	AB	876	DT	O3'-P	10.56	1.73	1.61
11	AB	1491	DT	O3'-P	10.56	1.73	1.61
62	F5	13	DT	O3'-P	10.56	1.73	1.61
235	WD	21	DT	O3'-P	10.56	1.73	1.61
11	AB	1636	DT	O3'-P	10.56	1.73	1.61
11	AB	1912	DT	O3'-P	10.56	1.73	1.61
11	AB	2880	DT	O3'-P	10.56	1.73	1.61
57	EC	1	DT	O3'-P	10.56	1.73	1.61
205	T5	19	DT	O3'-P	10.56	1.73	1.61
11	AB	4985	DT	O3'-P	10.56	1.73	1.61
202	SD	22	DT	O3'-P	10.56	1.73	1.61
11	AB	1333	DT	O3'-P	10.56	1.73	1.61
11	AB	1615	DT	O3'-P	10.56	1.73	1.61
11	AB	1886	DT	O3'-P	10.56	1.73	1.61
11	AB	2026	DT	O3'-P	10.56	1.73	1.61
11	AB	2461	DT	O3'-P	10.56	1.73	1.61
11	AB	2553	DT	O3'-P	10.56	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2663	DT	O3'-P	10.56	1.73	1.61
11	AB	4198	DT	O3'-P	10.56	1.73	1.61
11	AB	6910	DT	O3'-P	10.56	1.73	1.61
11	AB	7119	DT	O3'-P	10.56	1.73	1.61
11	AB	7137	DT	O3'-P	10.56	1.73	1.61
26	C1	24	DT	O3'-P	10.56	1.73	1.61
117	K5	45	DT	O3'-P	10.56	1.73	1.61
145	MD	26	DT	O3'-P	10.56	1.73	1.61
158	O5	47	DT	O3'-P	10.56	1.73	1.61
72	G3	18	DT	O3'-P	10.56	1.73	1.61
75	G7	14	DT	O3'-P	10.56	1.73	1.61
100	IA	7	DT	O3'-P	10.56	1.73	1.61
167	P3	34	DT	O3'-P	10.56	1.73	1.61
218	UA	5	DG	O3'-P	10.56	1.73	1.61
11	AB	1447	DT	O3'-P	10.55	1.73	1.61
11	AB	1661	DT	O3'-P	10.55	1.73	1.61
11	AB	1894	DT	O3'-P	10.55	1.73	1.61
11	AB	3262	DT	O3'-P	10.55	1.73	1.61
11	AB	6358	DT	O3'-P	10.55	1.73	1.61
11	AB	3063	DT	O3'-P	10.55	1.73	1.61
11	AB	3236	DT	O3'-P	10.55	1.73	1.61
11	AB	4012	DT	O3'-P	10.55	1.73	1.61
11	AB	6156	DT	O3'-P	10.55	1.73	1.61
11	AB	6785	DT	O3'-P	10.55	1.73	1.61
11	AB	6979	DT	O3'-P	10.55	1.73	1.61
194	S2	21	DT	O3'-P	10.55	1.73	1.61
11	AB	6854	DT	O3'-P	10.55	1.73	1.61
11	AB	4396	DT	O3'-P	10.55	1.73	1.61
107	J6	26	DT	O3'-P	10.55	1.73	1.61
218	UA	9	DT	O3'-P	10.55	1.73	1.61
11	AB	80	DT	O3'-P	10.55	1.73	1.61
11	AB	888	DT	O3'-P	10.55	1.73	1.61
11	AB	4595	DT	O3'-P	10.55	1.73	1.61
11	AB	4825	DT	O3'-P	10.55	1.73	1.61
226	V9	12	DT	O3'-P	10.55	1.73	1.61
232	W7	16	DT	O3'-P	10.55	1.73	1.61
232	W7	21	DT	O3'-P	10.55	1.73	1.61
238	X9	11	DT	O3'-P	10.55	1.73	1.61
11	AB	6902	DT	O3'-P	10.55	1.73	1.61
36	CD	8	DT	O3'-P	10.55	1.73	1.61
138	M5	29	DT	O3'-P	10.55	1.73	1.61
211	TD	29	DT	O3'-P	10.55	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1597	DT	O3'-P	10.54	1.73	1.61
75	G7	9	DA	O3'-P	10.54	1.73	1.61
127	L3	10	DT	O3'-P	10.54	1.73	1.61
220	UD	5	DT	O3'-P	10.54	1.73	1.61
11	AB	494	DT	O3'-P	10.54	1.73	1.61
11	AB	3075	DT	O3'-P	10.54	1.73	1.61
140	M7	5	DT	O3'-P	10.54	1.73	1.61
11	AB	4529	DT	O3'-P	10.54	1.73	1.61
94	I3	13	DT	O3'-P	10.54	1.73	1.61
135	LD	16	DT	O3'-P	10.54	1.73	1.61
7	A7	40	DT	O3'-P	10.54	1.73	1.61
11	AB	1601	DT	O3'-P	10.54	1.73	1.61
11	AB	3268	DT	O3'-P	10.54	1.73	1.61
11	AB	4204	DT	O3'-P	10.54	1.73	1.61
11	AB	4367	DT	O3'-P	10.54	1.73	1.61
145	MD	21	DT	O3'-P	10.54	1.73	1.61
209	TA	3	DT	O3'-P	10.54	1.73	1.61
11	AB	33	DT	O3'-P	10.54	1.73	1.61
11	AB	1195	DA	O3'-P	10.54	1.73	1.61
11	AB	3640	DT	O3'-P	10.54	1.73	1.61
11	AB	4405	DT	O3'-P	10.54	1.73	1.61
161	O8	33	DA	O3'-P	10.54	1.73	1.61
161	O8	37	DT	O3'-P	10.54	1.73	1.61
11	AB	3962	DT	O3'-P	10.54	1.73	1.61
11	AB	4158	DT	O3'-P	10.54	1.73	1.61
11	AB	2151	DT	O3'-P	10.53	1.73	1.61
11	AB	6525	DT	O3'-P	10.53	1.73	1.61
193	RD	18	DT	O3'-P	10.53	1.73	1.61
187	R5	40	DT	O3'-P	10.53	1.73	1.61
204	T3	40	DT	O3'-P	10.53	1.73	1.61
11	AB	5662	DT	O3'-P	10.53	1.73	1.61
234	W9	9	DT	O3'-P	10.53	1.73	1.61
11	AB	3499	DT	O3'-P	10.52	1.73	1.61
11	AB	4043	DT	O3'-P	10.52	1.73	1.61
11	AB	5097	DT	O3'-P	10.52	1.73	1.61
11	AB	6394	DT	O3'-P	10.52	1.73	1.61
51	E5	5	DT	O3'-P	10.52	1.73	1.61
112	JC	9	DA	O3'-P	10.52	1.73	1.61
11	AB	4835	DT	O3'-P	10.52	1.73	1.61
11	AB	5477	DT	O3'-P	10.52	1.73	1.61
11	AB	5119	DG	O3'-P	10.51	1.73	1.61
11	AB	6534	DT	O3'-P	10.51	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	51	DT	O3'-P	10.51	1.73	1.61
11	AB	3792	DT	O3'-P	10.51	1.73	1.61
11	AB	3630	DT	O3'-P	10.51	1.73	1.61
11	AB	6977	DT	O3'-P	10.51	1.73	1.61
11	AB	2935	DT	O3'-P	10.50	1.73	1.61
11	AB	2937	DT	O3'-P	10.50	1.73	1.61
11	AB	4695	DT	O3'-P	10.50	1.73	1.61
11	AB	5479	DT	O3'-P	10.50	1.73	1.61
62	F5	42	DT	O3'-P	10.50	1.73	1.61
100	IA	20	DT	O3'-P	10.50	1.73	1.61
149	N6	41	DT	O3'-P	10.50	1.73	1.61
11	AB	2905	DT	O3'-P	10.50	1.73	1.61
11	AB	6604	DT	O3'-P	10.50	1.73	1.61
11	AB	2135	DT	O3'-P	10.50	1.73	1.61
11	AB	3350	DT	O3'-P	10.49	1.73	1.61
11	AB	4503	DT	O3'-P	10.49	1.73	1.61
11	AB	1276	DT	O3'-P	10.49	1.73	1.61
11	AB	2276	DT	O3'-P	10.48	1.73	1.61
11	AB	4811	DT	O3'-P	10.48	1.73	1.61
176	Q2	10	DT	O3'-P	10.48	1.73	1.61
11	AB	470	DT	O3'-P	10.48	1.73	1.61
11	AB	6353	DT	O3'-P	10.48	1.73	1.61
11	AB	4218	DT	O3'-P	10.47	1.73	1.61
58	ED	10	DT	O3'-P	10.47	1.73	1.61
11	AB	5565	DT	O3'-P	10.47	1.73	1.61
11	AB	5959	DT	O3'-P	10.47	1.73	1.61
189	R8	34	DT	O3'-P	10.47	1.73	1.61
11	AB	4646	DA	O3'-P	10.47	1.73	1.61
11	AB	1342	DT	O3'-P	10.47	1.73	1.61
64	F7	6	DT	O3'-P	10.46	1.73	1.61
11	AB	5944	DT	O3'-P	10.46	1.73	1.61
11	AB	7130	DT	O3'-P	10.46	1.73	1.61
158	O5	40	DT	O3'-P	10.46	1.73	1.61
138	M5	12	DT	O3'-P	10.45	1.73	1.61
11	AB	5066	DG	O3'-P	10.37	1.73	1.61
17	B4	14	DG	O3'-P	10.33	1.73	1.61
18	B5	15	DG	O3'-P	10.33	1.73	1.61
150	N7	20	DG	O3'-P	10.33	1.73	1.61
217	U9	24	DG	O3'-P	10.33	1.73	1.61
11	AB	2592	DG	O3'-P	10.32	1.73	1.61
137	M3	13	DG	O3'-P	10.32	1.73	1.61
150	N7	6	DG	O3'-P	10.32	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	F3	23	DG	O3'-P	10.31	1.73	1.61
148	N5	5	DG	O3'-P	10.31	1.73	1.61
11	AB	936	DG	O3'-P	10.30	1.73	1.61
11	AB	6813	DG	O3'-P	10.30	1.73	1.61
138	M5	6	DG	O3'-P	10.30	1.73	1.61
103	J1	9	DG	O3'-P	10.30	1.73	1.61
233	W8	21	DG	O3'-P	10.30	1.73	1.61
53	E7	13	DG	O3'-P	10.30	1.73	1.61
220	UD	7	DG	O3'-P	10.30	1.73	1.61
11	AB	582	DG	O3'-P	10.29	1.73	1.61
12	AC	5	DG	O3'-P	10.29	1.73	1.61
206	T7	15	DG	O3'-P	10.29	1.73	1.61
67	FA	32	DG	O3'-P	10.28	1.73	1.61
82	H2	14	DG	O3'-P	10.28	1.73	1.61
125	L1	50	DG	O3'-P	10.28	1.73	1.61
49	E2	28	DG	O3'-P	10.28	1.73	1.61
77	G9	8	DG	O3'-P	10.28	1.73	1.61
111	JA	4	DG	O3'-P	10.28	1.73	1.61
122	KA	33	DG	O3'-P	10.28	1.73	1.61
57	EC	21	DG	O3'-P	10.27	1.73	1.61
150	N7	3	DG	O3'-P	10.27	1.73	1.61
236	X5	19	DG	O3'-P	10.27	1.73	1.61
11	AB	2091	DG	O3'-P	10.27	1.73	1.61
11	AB	4280	DG	O3'-P	10.27	1.73	1.61
11	AB	6229	DG	O3'-P	10.27	1.73	1.61
28	C3	24	DG	O3'-P	10.27	1.73	1.61
104	J2	16	DG	O3'-P	10.27	1.73	1.61
227	VA	5	DG	O3'-P	10.27	1.73	1.61
11	AB	735	DG	O3'-P	10.27	1.73	1.61
11	AB	2337	DG	O3'-P	10.27	1.73	1.61
11	AB	4233	DG	O3'-P	10.27	1.73	1.61
11	AB	1260	DG	O3'-P	10.27	1.73	1.61
11	AB	3175	DG	O3'-P	10.27	1.73	1.61
11	AB	972	DG	O3'-P	10.26	1.73	1.61
7	A7	8	DG	O3'-P	10.26	1.73	1.61
11	AB	3691	DG	O3'-P	10.26	1.73	1.61
86	H7	11	DG	O3'-P	10.26	1.73	1.61
198	S8	29	DG	O3'-P	10.26	1.73	1.61
229	VD	8	DG	O3'-P	10.26	1.73	1.61
3	A3	14	DG	O3'-P	10.26	1.73	1.61
11	AB	1998	DG	O3'-P	10.26	1.73	1.61
11	AB	5072	DG	O3'-P	10.26	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	D6	1	DG	O3'-P	10.26	1.73	1.61
91	HD	22	DG	O3'-P	10.26	1.73	1.61
107	J6	15	DG	O3'-P	10.26	1.73	1.61
130	L7	36	DG	O3'-P	10.26	1.73	1.61
4	A4	8	DG	O3'-P	10.26	1.73	1.61
60	F2	27	DG	O3'-P	10.26	1.73	1.61
139	M6	13	DG	O3'-P	10.26	1.73	1.61
228	VC	33	DG	O3'-P	10.26	1.73	1.61
11	AB	1068	DG	O3'-P	10.25	1.73	1.61
11	AB	6177	DG	O3'-P	10.25	1.73	1.61
11	AB	4431	DG	O3'-P	10.25	1.73	1.61
11	AB	5441	DG	O3'-P	10.25	1.73	1.61
81	H1	6	DG	O3'-P	10.25	1.73	1.61
175	PD	21	DG	O3'-P	10.25	1.73	1.61
191	RA	7	DG	O3'-P	10.25	1.73	1.61
206	T7	40	DG	O3'-P	10.25	1.73	1.61
11	AB	1016	DG	O3'-P	10.25	1.73	1.61
11	AB	1944	DG	O3'-P	10.24	1.73	1.61
11	AB	3289	DG	O3'-P	10.24	1.73	1.61
11	AB	6750	DG	O3'-P	10.24	1.73	1.61
11	AB	7202	DG	O3'-P	10.24	1.73	1.61
16	B3	6	DG	O3'-P	10.24	1.73	1.61
152	N9	43	DG	O3'-P	10.24	1.73	1.61
162	O9	5	DG	O3'-P	10.24	1.73	1.61
11	AB	450	DG	O3'-P	10.24	1.73	1.61
11	AB	1317	DG	O3'-P	10.24	1.73	1.61
11	AB	2615	DG	O3'-P	10.24	1.73	1.61
11	AB	1808	DG	O3'-P	10.24	1.73	1.61
11	AB	1829	DG	O3'-P	10.24	1.73	1.61
11	AB	3334	DG	O3'-P	10.24	1.73	1.61
11	AB	6304	DG	O3'-P	10.24	1.73	1.61
105	J3	33	DG	O3'-P	10.24	1.73	1.61
47	DD	25	DG	O3'-P	10.24	1.73	1.61
94	I3	50	DG	O3'-P	10.24	1.73	1.61
14	B1	9	DG	O3'-P	10.24	1.73	1.61
73	G5	8	DG	O3'-P	10.24	1.73	1.61
93	I2	15	DG	O3'-P	10.24	1.73	1.61
129	L6	25	DG	O3'-P	10.24	1.73	1.61
11	AB	5012	DG	O3'-P	10.23	1.73	1.61
24	BC	28	DG	O3'-P	10.23	1.73	1.61
29	C5	35	DG	O3'-P	10.23	1.73	1.61
78	GA	13	DG	O3'-P	10.23	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
142	M9	1	DG	O3'-P	10.23	1.73	1.61
202	SD	16	DG	O3'-P	10.23	1.73	1.61
99	I9	29	DG	O3'-P	10.23	1.73	1.61
117	K5	17	DG	O3'-P	10.23	1.73	1.61
11	AB	1050	DG	O3'-P	10.23	1.73	1.61
11	AB	1299	DG	O3'-P	10.23	1.73	1.61
11	AB	1531	DG	O3'-P	10.23	1.73	1.61
45	DA	22	DG	O3'-P	10.23	1.73	1.61
55	E9	13	DG	O3'-P	10.23	1.73	1.61
11	AB	5399	DG	O3'-P	10.23	1.73	1.61
11	AB	5815	DG	O3'-P	10.23	1.73	1.61
70	G1	8	DG	O3'-P	10.23	1.73	1.61
106	J5	12	DG	O3'-P	10.23	1.73	1.61
151	N8	11	DG	O3'-P	10.23	1.73	1.61
152	N9	47	DG	O3'-P	10.23	1.73	1.61
11	AB	579	DG	O3'-P	10.23	1.73	1.61
11	AB	2360	DG	O3'-P	10.23	1.73	1.61
11	AB	3130	DG	O3'-P	10.23	1.73	1.61
11	AB	5087	DG	O3'-P	10.23	1.73	1.61
30	C6	41	DG	O3'-P	10.23	1.73	1.61
66	F9	5	DG	O3'-P	10.23	1.73	1.61
168	P5	7	DG	O3'-P	10.23	1.73	1.61
11	AB	4438	DG	O3'-P	10.23	1.73	1.61
11	AB	7193	DG	O3'-P	10.23	1.73	1.61
43	D8	33	DG	O3'-P	10.23	1.73	1.61
89	HA	20	DG	O3'-P	10.23	1.73	1.61
119	K7	35	DG	O3'-P	10.23	1.73	1.61
11	AB	6810	DG	O3'-P	10.22	1.73	1.61
13	AD	26	DG	O3'-P	10.22	1.73	1.61
66	F9	19	DG	O3'-P	10.22	1.73	1.61
147	N3	2	DG	O3'-P	10.22	1.73	1.61
165	OD	35	DG	O3'-P	10.22	1.73	1.61
182	QA	2	DG	O3'-P	10.22	1.73	1.61
212	U2	13	DG	O3'-P	10.22	1.73	1.61
11	AB	435	DG	O3'-P	10.22	1.73	1.61
11	AB	681	DG	O3'-P	10.22	1.73	1.61
11	AB	1936	DG	O3'-P	10.22	1.73	1.61
11	AB	2028	DG	O3'-P	10.22	1.73	1.61
11	AB	2510	DG	O3'-P	10.22	1.73	1.61
11	AB	2793	DG	O3'-P	10.22	1.73	1.61
11	AB	4271	DG	O3'-P	10.22	1.73	1.61
11	AB	6595	DG	O3'-P	10.22	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5304	DG	O3'-P	10.22	1.73	1.61
11	AB	6540	DG	O3'-P	10.22	1.73	1.61
88	H9	23	DG	O3'-P	10.22	1.73	1.61
104	J2	13	DG	O3'-P	10.22	1.73	1.61
151	N8	2	DG	O3'-P	10.22	1.73	1.61
11	AB	243	DG	O3'-P	10.22	1.73	1.61
11	AB	420	DG	O3'-P	10.21	1.73	1.61
11	AB	978	DG	O3'-P	10.22	1.73	1.61
11	AB	2986	DG	O3'-P	10.22	1.73	1.61
11	AB	5005	DG	O3'-P	10.22	1.73	1.61
94	I3	33	DG	O3'-P	10.22	1.73	1.61
234	W9	16	DG	O3'-P	10.22	1.73	1.61
238	X9	20	DG	O3'-P	10.22	1.73	1.61
49	E2	7	DG	O3'-P	10.21	1.73	1.61
79	GC	5	DG	O3'-P	10.21	1.73	1.61
93	I2	19	DG	O3'-P	10.21	1.73	1.61
156	O2	26	DG	O3'-P	10.21	1.73	1.61
11	AB	1989	DG	O3'-P	10.21	1.73	1.61
4	A4	23	DG	O3'-P	10.21	1.73	1.61
11	AB	399	DG	O3'-P	10.21	1.73	1.61
11	AB	2486	DG	O3'-P	10.21	1.73	1.61
11	AB	3896	DG	O3'-P	10.21	1.73	1.61
11	AB	6949	DG	O3'-P	10.21	1.73	1.61
11	AB	2489	DG	O3'-P	10.21	1.73	1.61
11	AB	4009	DG	O3'-P	10.21	1.73	1.61
12	AC	20	DG	O3'-P	10.21	1.73	1.61
138	M5	16	DG	O3'-P	10.21	1.73	1.61
206	T7	55	DG	O3'-P	10.21	1.73	1.61
222	V3	21	DG	O3'-P	10.21	1.73	1.61
11	AB	4358	DG	O3'-P	10.21	1.73	1.61
11	AB	4376	DG	O3'-P	10.21	1.73	1.61
11	AB	6262	DG	O3'-P	10.21	1.73	1.61
11	AB	6310	DG	O3'-P	10.21	1.73	1.61
16	B3	12	DG	O3'-P	10.21	1.73	1.61
17	B4	16	DG	O3'-P	10.21	1.73	1.61
113	JD	26	DG	O3'-P	10.21	1.73	1.61
137	M3	34	DG	O3'-P	10.21	1.73	1.61
156	O2	40	DG	O3'-P	10.21	1.73	1.61
235	WD	5	DG	O3'-P	10.21	1.73	1.61
11	AB	82	DG	O3'-P	10.21	1.73	1.61
11	AB	2031	DG	O3'-P	10.21	1.73	1.61
11	AB	2295	DG	O3'-P	10.21	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3946	DG	O3'-P	10.21	1.73	1.61
98	I8	35	DG	O3'-P	10.21	1.73	1.61
11	AB	6800	DG	O3'-P	10.21	1.73	1.61
11	AB	1836	DG	O3'-P	10.21	1.73	1.61
32	C8	15	DG	O3'-P	10.21	1.73	1.61
160	O7	36	DG	O3'-P	10.21	1.73	1.61
58	ED	19	DG	O3'-P	10.20	1.73	1.61
179	Q7	7	DG	O3'-P	10.20	1.73	1.61
180	Q8	24	DG	O3'-P	10.20	1.73	1.61
188	R7	5	DG	O3'-P	10.20	1.73	1.61
10	AA	21	DG	O3'-P	10.20	1.73	1.61
11	AB	789	DG	O3'-P	10.20	1.73	1.61
11	AB	3325	DG	O3'-P	10.20	1.73	1.61
11	AB	5806	DG	O3'-P	10.20	1.73	1.61
11	AB	7174	DG	O3'-P	10.20	1.73	1.61
23	BA	30	DG	O3'-P	10.20	1.73	1.61
40	D5	6	DG	O3'-P	10.20	1.73	1.61
61	F3	17	DG	O3'-P	10.20	1.73	1.61
83	H3	24	DG	O3'-P	10.20	1.73	1.61
11	AB	2409	DG	O3'-P	10.20	1.73	1.61
11	AB	3399	DG	O3'-P	10.20	1.73	1.61
11	AB	3421	DG	O3'-P	10.20	1.73	1.61
11	AB	6665	DG	O3'-P	10.20	1.73	1.61
161	O8	28	DG	O3'-P	10.20	1.73	1.61
11	AB	5231	DG	O3'-P	10.20	1.73	1.61
22	B9	50	DG	O3'-P	10.20	1.73	1.61
81	H1	14	DG	O3'-P	10.20	1.73	1.61
225	V8	22	DG	O3'-P	10.20	1.73	1.61
11	AB	3487	DG	O3'-P	10.20	1.73	1.61
11	AB	6943	DG	O3'-P	10.20	1.73	1.61
106	J5	4	DG	O3'-P	10.20	1.73	1.61
169	P6	7	DG	O3'-P	10.20	1.73	1.61
234	W9	12	DG	O3'-P	10.20	1.73	1.61
11	AB	4422	DG	O3'-P	10.19	1.73	1.61
59	F1	2	DG	O3'-P	10.19	1.73	1.61
84	H5	9	DG	O3'-P	10.19	1.73	1.61
99	I9	27	DG	O3'-P	10.19	1.73	1.61
110	J9	10	DG	O3'-P	10.19	1.73	1.61
11	AB	1962	DG	O3'-P	10.19	1.73	1.61
11	AB	4256	DG	O3'-P	10.19	1.73	1.61
11	AB	7243	DG	O3'-P	10.19	1.73	1.61
43	D8	37	DG	O3'-P	10.19	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
152	N9	29	DG	O3'-P	10.19	1.73	1.61
11	AB	828	DG	O3'-P	10.19	1.73	1.61
28	C3	21	DG	O3'-P	10.19	1.73	1.61
52	E6	4	DG	O3'-P	10.19	1.73	1.61
74	G6	7	DG	O3'-P	10.19	1.73	1.61
109	J8	29	DG	O3'-P	10.19	1.73	1.61
114	K1	10	DG	O3'-P	10.19	1.73	1.61
116	K3	16	DG	O3'-P	10.19	1.73	1.61
119	K7	9	DG	O3'-P	10.19	1.73	1.61
131	L8	11	DG	O3'-P	10.19	1.73	1.61
165	OD	22	DG	O3'-P	10.19	1.73	1.61
225	V8	13	DG	O3'-P	10.19	1.73	1.61
11	AB	405	DG	O3'-P	10.19	1.73	1.61
11	AB	1804	DG	O3'-P	10.19	1.73	1.61
11	AB	2698	DG	O3'-P	10.19	1.73	1.61
11	AB	4760	DG	O3'-P	10.19	1.73	1.61
36	CD	3	DG	O3'-P	10.19	1.73	1.61
49	E2	40	DG	O3'-P	10.19	1.73	1.61
82	H2	30	DG	O3'-P	10.19	1.73	1.61
105	J3	9	DG	O3'-P	10.19	1.73	1.61
155	ND	7	DG	O3'-P	10.19	1.73	1.61
160	O7	16	DG	O3'-P	10.19	1.73	1.61
167	P3	4	DG	O3'-P	10.19	1.73	1.61
198	S8	27	DG	O3'-P	10.19	1.73	1.61
199	S9	6	DG	O3'-P	10.19	1.73	1.61
238	X9	55	DG	O3'-P	10.19	1.73	1.61
11	AB	4807	DG	O3'-P	10.19	1.73	1.61
11	AB	906	DG	O3'-P	10.19	1.73	1.61
11	AB	5840	DG	O3'-P	10.19	1.73	1.61
11	AB	6124	DG	O3'-P	10.19	1.73	1.61
11	AB	6969	DG	O3'-P	10.19	1.73	1.61
11	AB	7123	DG	O3'-P	10.19	1.73	1.61
11	AB	7247	DG	O3'-P	10.19	1.73	1.61
18	B5	29	DG	O3'-P	10.19	1.73	1.61
23	BA	10	DG	O3'-P	10.19	1.73	1.61
44	D9	24	DG	O3'-P	10.19	1.73	1.61
58	ED	32	DG	O3'-P	10.19	1.73	1.61
76	G8	20	DG	O3'-P	10.19	1.73	1.61
109	J8	49	DG	O3'-P	10.19	1.73	1.61
125	L1	2	DG	O3'-P	10.19	1.73	1.61
154	NC	8	DG	O3'-P	10.19	1.73	1.61
213	U3	1	DG	O3'-P	10.19	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
165	OD	51	DG	O3'-P	10.19	1.73	1.61
210	TC	24	DG	O3'-P	10.19	1.73	1.61
11	AB	807	DG	O3'-P	10.18	1.73	1.61
11	AB	2084	DG	O3'-P	10.18	1.73	1.61
11	AB	2868	DG	O3'-P	10.18	1.73	1.61
11	AB	3034	DG	O3'-P	10.18	1.73	1.61
22	B9	45	DG	O3'-P	10.18	1.73	1.61
11	AB	2826	DG	O3'-P	10.18	1.73	1.61
11	AB	2974	DG	O3'-P	10.18	1.73	1.61
11	AB	7199	DG	O3'-P	10.18	1.73	1.61
61	F3	13	DG	O3'-P	10.18	1.73	1.61
115	K2	27	DG	O3'-P	10.18	1.73	1.61
119	K7	22	DG	O3'-P	10.18	1.73	1.61
173	PA	4	DG	O3'-P	10.18	1.73	1.61
206	T7	42	DG	O3'-P	10.18	1.73	1.61
238	X9	7	DG	O3'-P	10.18	1.73	1.61
11	AB	348	DG	O3'-P	10.18	1.73	1.61
11	AB	4114	DG	O3'-P	10.18	1.73	1.61
11	AB	4801	DG	O3'-P	10.18	1.73	1.61
11	AB	5611	DG	O3'-P	10.18	1.73	1.61
11	AB	6768	DG	O3'-P	10.18	1.73	1.61
24	BC	6	DG	O3'-P	10.18	1.73	1.61
87	H8	21	DG	O3'-P	10.18	1.73	1.61
182	QA	18	DG	O3'-P	10.18	1.73	1.61
183	QC	11	DG	O3'-P	10.18	1.73	1.61
47	DD	15	DG	O3'-P	10.18	1.73	1.61
83	H3	19	DG	O3'-P	10.18	1.73	1.61
93	I2	22	DG	O3'-P	10.18	1.73	1.61
106	J5	34	DG	O3'-P	10.18	1.73	1.61
116	K3	6	DG	O3'-P	10.18	1.73	1.61
190	R9	8	DG	O3'-P	10.18	1.73	1.61
230	W3	39	DG	O3'-P	10.18	1.73	1.61
191	RA	15	DG	O3'-P	10.18	1.73	1.61
230	W3	19	DG	O3'-P	10.18	1.73	1.61
11	AB	1155	DG	O3'-P	10.18	1.73	1.61
18	B5	33	DG	O3'-P	10.18	1.73	1.61
147	N3	7	DG	O3'-P	10.18	1.73	1.61
157	O3	1	DG	O3'-P	10.18	1.73	1.61
11	AB	1721	DG	O3'-P	10.18	1.73	1.61
11	AB	1757	DG	O3'-P	10.18	1.73	1.61
11	AB	3133	DG	O3'-P	10.18	1.73	1.61
11	AB	6072	DG	O3'-P	10.18	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6346	DG	O3'-P	10.18	1.73	1.61
29	C5	3	DG	O3'-P	10.18	1.73	1.61
76	G8	12	DG	O3'-P	10.18	1.73	1.61
90	HC	25	DG	O3'-P	10.18	1.73	1.61
154	NC	4	DG	O3'-P	10.18	1.73	1.61
154	NC	6	DG	O3'-P	10.18	1.73	1.61
11	AB	4778	DG	O3'-P	10.17	1.73	1.61
24	BC	12	DG	O3'-P	10.17	1.73	1.61
60	F2	20	DG	O3'-P	10.17	1.73	1.61
86	H7	14	DG	O3'-P	10.17	1.73	1.61
222	V3	17	DG	O3'-P	10.17	1.73	1.61
229	VD	5	DG	O3'-P	10.17	1.73	1.61
1	A1	23	DG	O3'-P	10.17	1.73	1.61
11	AB	2001	DG	O3'-P	10.17	1.73	1.61
11	AB	5299	DG	O3'-P	10.17	1.73	1.61
11	AB	6250	DG	O3'-P	10.17	1.73	1.61
11	AB	6255	DG	O3'-P	10.17	1.73	1.61
127	L3	15	DG	O3'-P	10.17	1.73	1.61
148	N5	18	DG	O3'-P	10.17	1.73	1.61
219	UC	31	DG	O3'-P	10.17	1.73	1.61
222	V3	12	DG	O3'-P	10.17	1.73	1.61
2	A2	23	DG	O3'-P	10.17	1.73	1.61
11	AB	2119	DG	O3'-P	10.17	1.73	1.61
11	AB	2187	DG	O3'-P	10.17	1.73	1.61
11	AB	2688	DG	O3'-P	10.17	1.73	1.61
11	AB	2863	DG	O3'-P	10.17	1.73	1.61
11	AB	3124	DG	O3'-P	10.17	1.73	1.61
11	AB	6318	DG	O3'-P	10.17	1.73	1.61
160	O7	48	DG	O3'-P	10.17	1.73	1.61
165	OD	11	DG	O3'-P	10.17	1.73	1.61
182	QA	15	DG	O3'-P	10.17	1.73	1.61
195	S3	22	DG	O3'-P	10.17	1.73	1.61
199	S9	3	DG	O3'-P	10.17	1.73	1.61
230	W3	48	DG	O3'-P	10.17	1.73	1.61
39	D3	29	DG	O3'-P	10.17	1.73	1.61
67	FA	27	DG	O3'-P	10.17	1.73	1.61
155	ND	14	DG	O3'-P	10.17	1.73	1.61
158	O5	32	DG	O3'-P	10.17	1.73	1.61
148	N5	30	DG	O3'-P	10.17	1.73	1.61
159	O6	20	DG	O3'-P	10.17	1.73	1.61
163	OA	4	DG	O3'-P	10.17	1.73	1.61
185	R2	5	DG	O3'-P	10.17	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2483	DG	O3'-P	10.16	1.73	1.61
11	AB	4611	DG	O3'-P	10.16	1.73	1.61
145	MD	53	DG	O3'-P	10.16	1.73	1.61
11	AB	207	DG	O3'-P	10.16	1.73	1.61
11	AB	614	DG	O3'-P	10.16	1.73	1.61
11	AB	4520	DG	O3'-P	10.16	1.73	1.61
11	AB	5081	DG	O3'-P	10.16	1.73	1.61
39	D3	20	DG	O3'-P	10.16	1.73	1.61
39	D3	26	DG	O3'-P	10.16	1.73	1.61
114	K1	26	DG	O3'-P	10.16	1.73	1.61
11	AB	4683	DG	O3'-P	10.16	1.73	1.61
34	CA	11	DG	O3'-P	10.16	1.73	1.61
11	AB	2267	DG	O3'-P	10.16	1.73	1.61
33	C9	6	DG	O3'-P	10.16	1.73	1.61
89	HA	13	DG	O3'-P	10.16	1.73	1.61
157	O3	12	DG	O3'-P	10.16	1.73	1.61
185	R2	20	DG	O3'-P	10.16	1.73	1.61
196	S5	9	DG	O3'-P	10.16	1.73	1.61
214	U5	27	DG	O3'-P	10.16	1.73	1.61
11	AB	216	DG	O3'-P	10.16	1.73	1.61
11	AB	3844	DG	O3'-P	10.16	1.73	1.61
11	AB	4755	DG	O3'-P	10.16	1.73	1.61
11	AB	5152	DG	O3'-P	10.16	1.73	1.61
37	D1	12	DG	O3'-P	10.16	1.73	1.61
71	G2	10	DG	O3'-P	10.16	1.73	1.61
89	HA	25	DG	O3'-P	10.16	1.73	1.61
167	P3	37	DG	O3'-P	10.16	1.73	1.61
209	TA	9	DG	O3'-P	10.16	1.73	1.61
226	V9	24	DG	O3'-P	10.16	1.73	1.61
154	NC	21	DG	O3'-P	10.16	1.73	1.61
211	TD	23	DG	O3'-P	10.15	1.73	1.61
11	AB	4018	DG	O3'-P	10.15	1.73	1.61
11	AB	4100	DG	O3'-P	10.15	1.73	1.61
11	AB	5455	DG	O3'-P	10.15	1.73	1.61
11	AB	6170	DG	O3'-P	10.15	1.73	1.61
28	C3	15	DG	O3'-P	10.15	1.73	1.61
95	I5	30	DG	O3'-P	10.15	1.73	1.61
111	JA	13	DG	O3'-P	10.15	1.73	1.61
134	LC	12	DG	O3'-P	10.15	1.73	1.61
11	AB	1032	DG	O3'-P	10.15	1.73	1.61
11	AB	2063	DG	O3'-P	10.15	1.73	1.61
11	AB	5205	DG	O3'-P	10.15	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	D7	15	DG	O3'-P	10.15	1.73	1.61
185	R2	8	DG	O3'-P	10.15	1.73	1.61
209	TA	6	DG	O3'-P	10.15	1.73	1.61
215	U7	21	DG	O3'-P	10.15	1.73	1.61
30	C6	37	DG	O3'-P	10.15	1.73	1.61
55	E9	11	DG	O3'-P	10.15	1.73	1.61
175	PD	8	DG	O3'-P	10.15	1.73	1.61
190	R9	13	DG	O3'-P	10.15	1.73	1.61
195	S3	26	DG	O3'-P	10.15	1.73	1.61
228	VC	35	DG	O3'-P	10.15	1.73	1.61
11	AB	4964	DG	O3'-P	10.15	1.73	1.61
11	AB	2857	DG	O3'-P	10.14	1.73	1.61
11	AB	3638	DG	O3'-P	10.14	1.73	1.61
11	AB	4795	DG	O3'-P	10.14	1.73	1.61
123	KC	23	DG	O3'-P	10.14	1.73	1.61
130	L7	38	DG	O3'-P	10.14	1.73	1.61
161	O8	14	DG	O3'-P	10.14	1.73	1.61
219	UC	13	DG	O3'-P	10.14	1.73	1.61
232	W7	6	DG	O3'-P	10.14	1.73	1.61
11	AB	5587	DG	O3'-P	10.14	1.73	1.61
11	AB	93	DG	O3'-P	10.14	1.73	1.61
11	AB	628	DG	O3'-P	10.14	1.73	1.61
11	AB	2067	DG	O3'-P	10.14	1.73	1.61
11	AB	2077	DG	O3'-P	10.14	1.73	1.61
11	AB	3576	DG	O3'-P	10.14	1.73	1.61
11	AB	3684	DG	O3'-P	10.14	1.73	1.61
108	J7	53	DG	O3'-P	10.14	1.73	1.61
111	JA	6	DG	O3'-P	10.14	1.73	1.61
130	L7	56	DG	O3'-P	10.14	1.73	1.61
187	R5	21	DG	O3'-P	10.14	1.73	1.61
226	V9	28	DG	O3'-P	10.14	1.73	1.61
11	AB	2145	DG	O3'-P	10.14	1.73	1.61
11	AB	3238	DG	O3'-P	10.14	1.73	1.61
11	AB	5583	DG	O3'-P	10.14	1.73	1.61
11	AB	5761	DG	O3'-P	10.14	1.73	1.61
13	AD	16	DG	O3'-P	10.14	1.73	1.61
119	K7	1	DG	O3'-P	10.14	1.73	1.61
203	T2	26	DG	O3'-P	10.14	1.73	1.61
206	T7	7	DG	O3'-P	10.14	1.73	1.61
11	AB	5129	DG	O3'-P	10.14	1.73	1.61
177	Q3	5	DG	O3'-P	10.14	1.73	1.61
11	AB	2622	DG	O3'-P	10.14	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	B6	15	DG	O3'-P	10.14	1.73	1.61
67	FA	1	DG	O3'-P	10.14	1.73	1.61
9	A9	8	DG	O3'-P	10.13	1.73	1.61
11	AB	1311	DG	O3'-P	10.13	1.73	1.61
11	AB	3863	DG	O3'-P	10.14	1.73	1.61
51	E5	28	DG	O3'-P	10.14	1.73	1.61
63	F6	6	DG	O3'-P	10.14	1.73	1.61
216	U8	11	DG	O3'-P	10.14	1.73	1.61
11	AB	3900	DG	O3'-P	10.13	1.73	1.61
11	AB	4336	DG	O3'-P	10.13	1.73	1.61
11	AB	4558	DG	O3'-P	10.13	1.73	1.61
32	C8	53	DG	O3'-P	10.13	1.73	1.61
227	VA	12	DG	O3'-P	10.13	1.73	1.61
11	AB	6088	DG	O3'-P	10.13	1.73	1.61
11	AB	7157	DG	O3'-P	10.13	1.73	1.61
22	B9	24	DG	O3'-P	10.13	1.73	1.61
45	DA	11	DG	O3'-P	10.13	1.73	1.61
135	LD	7	DG	O3'-P	10.13	1.73	1.61
11	AB	1782	DG	O3'-P	10.13	1.73	1.61
11	AB	3892	DG	O3'-P	10.13	1.73	1.61
11	AB	4832	DG	O3'-P	10.13	1.73	1.61
194	S2	12	DG	O3'-P	10.13	1.73	1.61
37	D1	15	DG	O3'-P	10.13	1.73	1.61
45	DA	20	DG	O3'-P	10.13	1.73	1.61
108	J7	31	DG	O3'-P	10.13	1.73	1.61
219	UC	27	DG	O3'-P	10.13	1.73	1.61
224	V7	21	DG	O3'-P	10.13	1.73	1.61
228	VC	24	DG	O3'-P	10.13	1.73	1.61
6	A6	21	DG	O3'-P	10.13	1.73	1.61
11	AB	138	DG	O3'-P	10.13	1.73	1.61
11	AB	6208	DG	O3'-P	10.13	1.73	1.61
11	AB	6454	DG	O3'-P	10.13	1.73	1.61
85	H6	26	DG	O3'-P	10.13	1.73	1.61
108	J7	5	DG	O3'-P	10.13	1.73	1.61
126	L2	51	DG	O3'-P	10.13	1.73	1.61
236	X5	9	DG	O3'-P	10.13	1.73	1.61
11	AB	474	DG	O3'-P	10.13	1.73	1.61
11	AB	1336	DG	O3'-P	10.13	1.73	1.61
11	AB	3381	DG	O3'-P	10.13	1.73	1.61
11	AB	5200	DG	O3'-P	10.13	1.73	1.61
11	AB	6158	DG	O3'-P	10.13	1.73	1.61
11	AB	6893	DG	O3'-P	10.13	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
90	HC	21	DG	O3'-P	10.13	1.73	1.61
103	J1	4	DG	O3'-P	10.13	1.73	1.61
114	K1	44	DG	O3'-P	10.13	1.73	1.61
137	M3	5	DG	O3'-P	10.13	1.73	1.61
145	MD	33	DG	O3'-P	10.13	1.73	1.61
156	O2	54	DG	O3'-P	10.13	1.73	1.61
181	Q9	2	DG	O3'-P	10.13	1.73	1.61
195	S3	24	DG	O3'-P	10.13	1.73	1.61
225	V8	11	DG	O3'-P	10.13	1.73	1.61
230	W3	9	DG	O3'-P	10.13	1.73	1.61
11	AB	140	DG	O3'-P	10.12	1.73	1.61
11	AB	270	DG	O3'-P	10.12	1.73	1.61
11	AB	273	DG	O3'-P	10.12	1.73	1.61
11	AB	1416	DG	O3'-P	10.12	1.73	1.61
11	AB	2545	DG	O3'-P	10.12	1.73	1.61
11	AB	3391	DG	O3'-P	10.12	1.73	1.61
11	AB	4663	DG	O3'-P	10.12	1.73	1.61
11	AB	5262	DG	O3'-P	10.12	1.73	1.61
174	PC	14	DG	O3'-P	10.13	1.73	1.61
32	C8	19	DG	O3'-P	10.12	1.73	1.61
113	JD	5	DG	O3'-P	10.12	1.73	1.61
206	T7	21	DG	O3'-P	10.13	1.73	1.61
119	K7	13	DG	O3'-P	10.12	1.73	1.61
137	M3	17	DG	O3'-P	10.12	1.73	1.61
206	T7	5	DG	O3'-P	10.12	1.73	1.61
11	AB	2124	DG	O3'-P	10.12	1.73	1.61
11	AB	4748	DG	O3'-P	10.12	1.73	1.61
22	B9	22	DG	O3'-P	10.12	1.73	1.61
121	K9	9	DG	O3'-P	10.12	1.73	1.61
216	U8	14	DG	O3'-P	10.12	1.73	1.61
33	C9	2	DG	O3'-P	10.12	1.73	1.61
89	HA	28	DG	O3'-P	10.12	1.73	1.61
95	I5	12	DG	O3'-P	10.12	1.73	1.61
108	J7	8	DG	O3'-P	10.12	1.73	1.61
140	M7	22	DG	O3'-P	10.12	1.73	1.61
8	A8	10	DG	O3'-P	10.12	1.73	1.61
11	AB	70	DG	O3'-P	10.12	1.73	1.61
11	AB	2920	DG	O3'-P	10.12	1.73	1.61
11	AB	2941	DG	O3'-P	10.12	1.73	1.61
11	AB	4411	DG	O3'-P	10.12	1.73	1.61
11	AB	5572	DG	O3'-P	10.12	1.73	1.61
11	AB	5909	DG	O3'-P	10.12	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	5987	DG	O3'-P	10.12	1.73	1.61
11	AB	7110	DG	O3'-P	10.12	1.73	1.61
43	D8	40	DG	O3'-P	10.12	1.73	1.61
48	E1	5	DG	O3'-P	10.12	1.73	1.61
107	J6	12	DG	O3'-P	10.12	1.73	1.61
9	A9	6	DG	O3'-P	10.12	1.73	1.61
11	AB	101	DG	O3'-P	10.12	1.73	1.61
61	F3	10	DG	O3'-P	10.12	1.73	1.61
102	ID	24	DG	O3'-P	10.12	1.73	1.61
156	O2	19	DG	O3'-P	10.12	1.73	1.61
11	AB	1821	DG	O3'-P	10.12	1.73	1.61
11	AB	2160	DG	O3'-P	10.12	1.73	1.61
11	AB	3066	DG	O3'-P	10.12	1.73	1.61
11	AB	4892	DG	O3'-P	10.12	1.73	1.61
11	AB	4976	DG	O3'-P	10.12	1.73	1.61
11	AB	6838	DG	O3'-P	10.12	1.73	1.61
22	B9	11	DG	O3'-P	10.12	1.73	1.61
94	I3	29	DG	O3'-P	10.12	1.73	1.61
104	J2	1	DG	O3'-P	10.12	1.73	1.61
118	K6	18	DG	O3'-P	10.12	1.73	1.61
114	K1	31	DG	O3'-P	10.12	1.73	1.61
125	L1	10	DG	O3'-P	10.12	1.73	1.61
11	AB	1628	DG	O3'-P	10.12	1.73	1.61
11	AB	2887	DG	O3'-P	10.12	1.73	1.61
11	AB	5425	DG	O3'-P	10.12	1.73	1.61
11	AB	5578	DG	O3'-P	10.12	1.73	1.61
11	AB	5949	DG	O3'-P	10.12	1.73	1.61
29	C5	10	DG	O3'-P	10.12	1.73	1.61
136	M2	8	DG	O3'-P	10.12	1.73	1.61
46	DC	6	DG	O3'-P	10.11	1.73	1.61
206	T7	36	DG	O3'-P	10.11	1.73	1.61
206	T7	50	DG	O3'-P	10.11	1.73	1.61
226	V9	22	DG	O3'-P	10.11	1.73	1.61
7	A7	11	DG	O3'-P	10.11	1.73	1.61
11	AB	546	DG	O3'-P	10.11	1.73	1.61
11	AB	3727	DG	O3'-P	10.11	1.73	1.61
11	AB	4307	DG	O3'-P	10.11	1.73	1.61
11	AB	5116	DG	O3'-P	10.11	1.73	1.61
11	AB	6286	DG	O3'-P	10.11	1.73	1.61
145	MD	55	DG	O3'-P	10.11	1.73	1.61
9	A9	10	DG	O3'-P	10.11	1.73	1.61
11	AB	623	DG	O3'-P	10.11	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	762	DG	O3'-P	10.11	1.73	1.61
11	AB	6514	DG	O3'-P	10.11	1.73	1.61
33	C9	9	DG	O3'-P	10.11	1.73	1.61
201	SC	12	DG	O3'-P	10.11	1.73	1.61
11	AB	792	DG	O3'-P	10.11	1.73	1.61
11	AB	1264	DG	O3'-P	10.11	1.73	1.61
11	AB	5845	DG	O3'-P	10.11	1.73	1.61
123	KC	12	DG	O3'-P	10.11	1.73	1.61
198	S8	34	DG	O3'-P	10.11	1.73	1.61
11	AB	4645	DG	O3'-P	10.11	1.73	1.61
11	AB	4823	DG	O3'-P	10.11	1.73	1.61
11	AB	483	DG	O3'-P	10.11	1.73	1.61
11	AB	1907	DG	O3'-P	10.11	1.73	1.61
11	AB	2416	DG	O3'-P	10.11	1.73	1.61
11	AB	5474	DG	O3'-P	10.11	1.73	1.61
11	AB	6445	DG	O3'-P	10.11	1.73	1.61
38	D2	6	DG	O3'-P	10.11	1.73	1.61
41	D6	9	DG	O3'-P	10.11	1.73	1.61
150	N7	15	DG	O3'-P	10.11	1.73	1.61
199	S9	18	DG	O3'-P	10.11	1.73	1.61
221	V2	12	DG	O3'-P	10.11	1.73	1.61
11	AB	303	DG	O3'-P	10.11	1.73	1.61
11	AB	1875	DG	O3'-P	10.11	1.73	1.61
109	J8	44	DG	O3'-P	10.11	1.73	1.61
11	AB	2628	DG	O3'-P	10.11	1.73	1.61
11	AB	2718	DG	O3'-P	10.11	1.73	1.61
165	OD	29	DG	O3'-P	10.11	1.73	1.61
178	Q5	15	DG	O3'-P	10.11	1.73	1.61
11	AB	3406	DG	O3'-P	10.11	1.73	1.61
11	AB	4329	DG	O3'-P	10.11	1.73	1.61
56	EA	5	DG	O3'-P	10.11	1.73	1.61
69	FD	40	DG	O3'-P	10.11	1.73	1.61
72	G3	11	DG	O3'-P	10.11	1.73	1.61
85	H6	5	DG	O3'-P	10.11	1.73	1.61
179	Q7	25	DG	O3'-P	10.11	1.73	1.61
200	SA	8	DG	O3'-P	10.11	1.73	1.61
11	AB	1083	DG	O3'-P	10.10	1.73	1.61
11	AB	1751	DG	O3'-P	10.10	1.73	1.61
126	L2	48	DG	O3'-P	10.10	1.73	1.61
11	AB	22	DG	O3'-P	10.10	1.73	1.61
11	AB	3230	DG	O3'-P	10.10	1.73	1.61
11	AB	3814	DG	O3'-P	10.10	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4311	DG	O3'-P	10.10	1.73	1.61
11	AB	5234	DG	O3'-P	10.10	1.73	1.61
11	AB	6022	DG	O3'-P	10.10	1.73	1.61
11	AB	687	DG	O3'-P	10.10	1.73	1.61
11	AB	4057	DG	O3'-P	10.10	1.73	1.61
11	AB	4961	DG	O3'-P	10.10	1.73	1.61
11	AB	5488	DG	O3'-P	10.10	1.73	1.61
11	AB	6151	DG	O3'-P	10.10	1.73	1.61
15	B2	16	DG	O3'-P	10.10	1.73	1.61
25	BD	10	DG	O3'-P	10.10	1.73	1.61
32	C8	32	DG	O3'-P	10.10	1.73	1.61
36	CD	19	DG	O3'-P	10.10	1.73	1.61
11	AB	5683	DG	O3'-P	10.10	1.73	1.61
11	AB	5720	DG	O3'-P	10.10	1.73	1.61
18	B5	13	DG	O3'-P	10.10	1.73	1.61
67	FA	3	DG	O3'-P	10.10	1.73	1.61
74	G6	5	DG	O3'-P	10.10	1.73	1.61
102	ID	21	DG	O3'-P	10.10	1.73	1.61
113	JD	1	DG	O3'-P	10.10	1.73	1.61
130	L7	1	DG	O3'-P	10.10	1.73	1.61
169	P6	16	DG	O3'-P	10.10	1.73	1.61
130	L7	6	DG	O3'-P	10.10	1.73	1.61
130	L7	34	DG	O3'-P	10.10	1.73	1.61
189	R8	31	DG	O3'-P	10.10	1.73	1.61
197	S7	23	DG	O3'-P	10.10	1.73	1.61
11	AB	984	DG	O3'-P	10.10	1.73	1.61
11	AB	989	DG	O3'-P	10.10	1.73	1.61
11	AB	2754	DG	O3'-P	10.10	1.73	1.61
11	AB	2806	DG	O3'-P	10.10	1.73	1.61
11	AB	3796	DG	O3'-P	10.10	1.73	1.61
11	AB	4650	DG	O3'-P	10.10	1.73	1.61
122	KA	44	DG	O3'-P	10.10	1.73	1.61
11	AB	5743	DG	O3'-P	10.10	1.73	1.61
11	AB	6746	DG	O3'-P	10.10	1.73	1.61
11	AB	6789	DG	O3'-P	10.10	1.73	1.61
161	O8	51	DG	O3'-P	10.10	1.73	1.61
32	C8	37	DG	O3'-P	10.10	1.73	1.61
52	E6	28	DG	O3'-P	10.10	1.73	1.61
59	F1	18	DG	O3'-P	10.10	1.73	1.61
93	I2	41	DG	O3'-P	10.10	1.73	1.61
165	OD	32	DG	O3'-P	10.10	1.73	1.61
170	P7	17	DG	O3'-P	10.10	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	152	DG	O3'-P	10.10	1.73	1.61
11	AB	359	DG	O3'-P	10.10	1.73	1.61
11	AB	584	DG	O3'-P	10.10	1.73	1.61
11	AB	910	DG	O3'-P	10.10	1.73	1.61
11	AB	5054	DG	O3'-P	10.10	1.73	1.61
11	AB	5977	DG	O3'-P	10.10	1.73	1.61
11	AB	6628	DG	O3'-P	10.10	1.73	1.61
25	BD	7	DG	O3'-P	10.10	1.73	1.61
26	C1	19	DG	O3'-P	10.10	1.73	1.61
35	CC	7	DG	O3'-P	10.10	1.73	1.61
85	H6	29	DG	O3'-P	10.10	1.73	1.61
125	L1	33	DG	O3'-P	10.10	1.73	1.61
196	S5	22	DG	O3'-P	10.10	1.73	1.61
11	AB	746	DG	O3'-P	10.09	1.73	1.61
11	AB	2218	DG	O3'-P	10.09	1.73	1.61
11	AB	3100	DG	O3'-P	10.09	1.73	1.61
11	AB	3115	DG	O3'-P	10.09	1.73	1.61
11	AB	3220	DG	O3'-P	10.09	1.73	1.61
11	AB	5042	DG	O3'-P	10.09	1.73	1.61
16	B3	18	DG	O3'-P	10.09	1.73	1.61
31	C7	20	DG	O3'-P	10.09	1.73	1.61
153	NA	22	DG	O3'-P	10.09	1.73	1.61
38	D2	1	DG	O3'-P	10.09	1.73	1.61
49	E2	32	DG	O3'-P	10.09	1.73	1.61
55	E9	38	DG	O3'-P	10.09	1.73	1.61
87	H8	19	DG	O3'-P	10.09	1.73	1.61
102	ID	2	DG	O3'-P	10.09	1.73	1.61
126	L2	36	DG	O3'-P	10.09	1.73	1.61
144	MC	1	DG	O3'-P	10.09	1.73	1.61
181	Q9	20	DG	O3'-P	10.09	1.73	1.61
218	UA	11	DG	O3'-P	10.09	1.73	1.61
1	A1	42	DG	O3'-P	10.09	1.73	1.61
3	A3	20	DG	O3'-P	10.09	1.73	1.61
11	AB	3633	DG	O3'-P	10.09	1.73	1.61
11	AB	5421	DG	O3'-P	10.09	1.73	1.61
55	E9	29	DG	O3'-P	10.09	1.73	1.61
141	M8	15	DG	O3'-P	10.09	1.73	1.61
198	S8	8	DG	O3'-P	10.09	1.73	1.61
11	AB	3376	DG	O3'-P	10.09	1.73	1.61
11	AB	5656	DG	O3'-P	10.09	1.73	1.61
11	AB	5956	DG	O3'-P	10.09	1.73	1.61
11	AB	5973	DG	O3'-P	10.09	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6494	DG	O3'-P	10.09	1.73	1.61
183	QC	19	DG	O3'-P	10.09	1.73	1.61
11	AB	5194	DG	O3'-P	10.09	1.73	1.61
11	AB	964	DG	O3'-P	10.09	1.73	1.61
11	AB	1105	DG	O3'-P	10.09	1.73	1.61
11	AB	1200	DG	O3'-P	10.09	1.73	1.61
11	AB	5249	DG	O3'-P	10.09	1.73	1.61
21	B8	16	DG	O3'-P	10.09	1.73	1.61
154	NC	35	DG	O3'-P	10.09	1.73	1.61
209	TA	31	DG	O3'-P	10.09	1.73	1.61
11	AB	2313	DG	O3'-P	10.09	1.73	1.61
11	AB	2540	DG	O3'-P	10.09	1.73	1.61
11	AB	6120	DG	O3'-P	10.09	1.73	1.61
11	AB	7025	DG	O3'-P	10.09	1.73	1.61
76	G8	15	DG	O3'-P	10.09	1.73	1.61
219	UC	8	DG	O3'-P	10.09	1.73	1.61
120	K8	10	DG	O3'-P	10.09	1.73	1.61
126	L2	24	DG	O3'-P	10.09	1.73	1.61
11	AB	285	DG	O3'-P	10.08	1.73	1.61
11	AB	336	DG	O3'-P	10.08	1.73	1.61
11	AB	921	DG	O3'-P	10.08	1.73	1.61
11	AB	6634	DG	O3'-P	10.08	1.73	1.61
11	AB	1116	DG	O3'-P	10.08	1.73	1.61
11	AB	1194	DG	O3'-P	10.08	1.73	1.61
11	AB	2726	DG	O3'-P	10.08	1.73	1.61
11	AB	5560	DG	O3'-P	10.08	1.73	1.61
11	AB	6543	DG	O3'-P	10.08	1.73	1.61
27	C2	9	DG	O3'-P	10.08	1.73	1.61
91	HD	15	DG	O3'-P	10.08	1.73	1.61
121	K9	27	DG	O3'-P	10.08	1.73	1.61
178	Q5	9	DG	O3'-P	10.08	1.73	1.61
212	U2	20	DG	O3'-P	10.08	1.73	1.61
11	AB	868	DG	O3'-P	10.08	1.73	1.61
11	AB	940	DG	O3'-P	10.08	1.73	1.61
11	AB	1192	DG	O3'-P	10.08	1.73	1.61
11	AB	3364	DG	O3'-P	10.08	1.73	1.61
17	B4	18	DG	O3'-P	10.08	1.73	1.61
188	R7	25	DG	O3'-P	10.08	1.73	1.61
231	W5	24	DG	O3'-P	10.08	1.73	1.61
11	AB	351	DG	O3'-P	10.08	1.73	1.61
11	AB	361	DG	O3'-P	10.08	1.73	1.61
11	AB	3518	DG	O3'-P	10.08	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2203	DG	O3'-P	10.08	1.73	1.61
11	AB	4097	DG	O3'-P	10.08	1.73	1.61
11	AB	5273	DG	O3'-P	10.08	1.73	1.61
11	AB	5899	DG	O3'-P	10.08	1.73	1.61
11	AB	6458	DG	O3'-P	10.08	1.73	1.61
31	C7	23	DG	O3'-P	10.08	1.73	1.61
83	H3	30	DG	O3'-P	10.08	1.73	1.61
111	JA	10	DG	O3'-P	10.08	1.73	1.61
205	T5	22	DG	O3'-P	10.08	1.73	1.61
11	AB	54	DG	O3'-P	10.07	1.73	1.61
11	AB	522	DG	O3'-P	10.07	1.73	1.61
11	AB	846	DG	O3'-P	10.07	1.73	1.61
11	AB	1604	DG	O3'-P	10.07	1.73	1.61
11	AB	1910	DG	O3'-P	10.07	1.73	1.61
11	AB	3682	DG	O3'-P	10.07	1.73	1.61
11	AB	2073	DG	O3'-P	10.07	1.73	1.61
11	AB	2833	DG	O3'-P	10.07	1.73	1.61
11	AB	3088	DG	O3'-P	10.07	1.73	1.61
11	AB	3387	DG	O3'-P	10.07	1.73	1.61
14	B1	27	DG	O3'-P	10.07	1.73	1.61
11	AB	7028	DG	O3'-P	10.07	1.73	1.61
22	B9	53	DG	O3'-P	10.07	1.73	1.61
57	EC	12	DG	O3'-P	10.07	1.73	1.61
128	L5	16	DG	O3'-P	10.07	1.73	1.61
187	R5	27	DG	O3'-P	10.07	1.73	1.61
202	SD	6	DG	O3'-P	10.07	1.73	1.61
11	AB	4837	DG	O3'-P	10.07	1.73	1.61
11	AB	5493	DG	O3'-P	10.07	1.73	1.61
11	AB	970	DG	O3'-P	10.07	1.73	1.61
11	AB	1845	DG	O3'-P	10.07	1.73	1.61
11	AB	3731	DG	O3'-P	10.07	1.73	1.61
11	AB	6760	DG	O3'-P	10.07	1.73	1.61
141	M8	21	DG	O3'-P	10.07	1.73	1.61
155	ND	3	DG	O3'-P	10.07	1.73	1.61
157	O3	19	DG	O3'-P	10.07	1.73	1.61
178	Q5	39	DG	O3'-P	10.07	1.73	1.61
2	A2	7	DG	O3'-P	10.07	1.73	1.61
11	AB	424	DG	O3'-P	10.07	1.73	1.61
11	AB	946	DG	O3'-P	10.07	1.73	1.61
11	AB	1020	DG	O3'-P	10.07	1.73	1.61
11	AB	1408	DG	O3'-P	10.07	1.73	1.61
11	AB	2715	DG	O3'-P	10.07	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3152	DG	O3'-P	10.07	1.73	1.61
11	AB	5942	DG	O3'-P	10.07	1.73	1.61
11	AB	5965	DG	O3'-P	10.07	1.73	1.61
29	C5	16	DG	O3'-P	10.07	1.73	1.61
39	D3	10	DG	O3'-P	10.07	1.73	1.61
19	B6	9	DG	O3'-P	10.07	1.73	1.61
95	I5	22	DG	O3'-P	10.07	1.73	1.61
177	Q3	22	DG	O3'-P	10.07	1.73	1.61
11	AB	180	DG	O3'-P	10.06	1.73	1.61
11	AB	608	DG	O3'-P	10.06	1.73	1.61
11	AB	651	DG	O3'-P	10.06	1.73	1.61
11	AB	454	DG	O3'-P	10.06	1.73	1.61
11	AB	1773	DG	O3'-P	10.06	1.73	1.61
11	AB	2977	DG	O3'-P	10.06	1.73	1.61
11	AB	4092	DG	O3'-P	10.06	1.73	1.61
11	AB	6577	DG	O3'-P	10.06	1.73	1.61
20	B7	21	DG	O3'-P	10.06	1.73	1.61
165	OD	6	DG	O3'-P	10.06	1.73	1.61
11	AB	6340	DG	O3'-P	10.06	1.73	1.61
11	AB	7151	DG	O3'-P	10.06	1.73	1.61
40	D5	19	DG	O3'-P	10.06	1.73	1.61
73	G5	16	DG	O3'-P	10.06	1.73	1.61
199	S9	22	DG	O3'-P	10.06	1.73	1.61
5	A5	3	DG	O3'-P	10.06	1.73	1.61
11	AB	314	DG	O3'-P	10.06	1.73	1.61
11	AB	1461	DG	O3'-P	10.06	1.73	1.61
11	AB	2761	DG	O3'-P	10.06	1.73	1.61
11	AB	4293	DG	O3'-P	10.06	1.73	1.61
78	GA	3	DG	O3'-P	10.06	1.73	1.61
11	AB	1376	DG	O3'-P	10.06	1.73	1.61
11	AB	3562	DG	O3'-P	10.06	1.73	1.61
11	AB	3847	DG	O3'-P	10.06	1.73	1.61
11	AB	6331	DG	O3'-P	10.06	1.73	1.61
11	AB	6592	DG	O3'-P	10.06	1.73	1.61
11	AB	6709	DG	O3'-P	10.06	1.73	1.61
11	AB	7030	DG	O3'-P	10.06	1.73	1.61
68	FC	14	DG	O3'-P	10.06	1.73	1.61
11	AB	6883	DG	O3'-P	10.06	1.73	1.61
11	AB	6901	DG	O3'-P	10.06	1.73	1.61
11	AB	7066	DG	O3'-P	10.06	1.73	1.61
66	F9	16	DG	O3'-P	10.06	1.73	1.61
97	I7	8	DG	O3'-P	10.06	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
97	I7	11	DG	O3'-P	10.06	1.73	1.61
129	L6	6	DG	O3'-P	10.06	1.73	1.61
130	L7	10	DG	O3'-P	10.06	1.73	1.61
204	T3	39	DG	O3'-P	10.06	1.73	1.61
207	T8	19	DG	O3'-P	10.06	1.73	1.61
207	T8	23	DG	O3'-P	10.06	1.73	1.61
130	L7	30	DG	O3'-P	10.06	1.73	1.61
202	SD	10	DG	O3'-P	10.06	1.73	1.61
11	AB	891	DG	O3'-P	10.06	1.73	1.61
11	AB	898	DG	O3'-P	10.06	1.73	1.61
11	AB	2452	DG	O3'-P	10.06	1.73	1.61
11	AB	2569	DG	O3'-P	10.06	1.73	1.61
11	AB	2799	DG	O3'-P	10.06	1.73	1.61
11	AB	2901	DG	O3'-P	10.06	1.73	1.61
11	AB	3782	DG	O3'-P	10.06	1.73	1.61
11	AB	4681	DG	O3'-P	10.06	1.73	1.61
11	AB	5552	DG	O3'-P	10.06	1.73	1.61
11	AB	4740	DG	O3'-P	10.06	1.73	1.61
83	H3	11	DG	O3'-P	10.06	1.73	1.61
90	HC	27	DG	O3'-P	10.06	1.73	1.61
213	U3	16	DG	O3'-P	10.06	1.73	1.61
11	AB	1228	DG	O3'-P	10.06	1.73	1.61
11	AB	2196	DG	O3'-P	10.06	1.73	1.61
11	AB	3818	DG	O3'-P	10.06	1.73	1.61
11	AB	5735	DG	O3'-P	10.06	1.73	1.61
11	AB	6795	DG	O3'-P	10.06	1.73	1.61
159	O6	11	DG	O3'-P	10.06	1.73	1.61
11	AB	1349	DG	O3'-P	10.05	1.73	1.61
11	AB	1815	DG	O3'-P	10.05	1.73	1.61
11	AB	2932	DG	O3'-P	10.05	1.73	1.61
103	J1	26	DG	O3'-P	10.06	1.73	1.61
11	AB	2366	DG	O3'-P	10.05	1.73	1.61
11	AB	5183	DG	O3'-P	10.05	1.73	1.61
11	AB	6966	DG	O3'-P	10.05	1.73	1.61
13	AD	22	DG	O3'-P	10.05	1.73	1.61
26	C1	4	DG	O3'-P	10.05	1.73	1.61
72	G3	4	DG	O3'-P	10.05	1.73	1.61
92	I1	15	DG	O3'-P	10.05	1.73	1.61
95	I5	38	DG	O3'-P	10.05	1.73	1.61
7	A7	35	DG	O3'-P	10.05	1.73	1.61
8	A8	24	DG	O3'-P	10.05	1.73	1.61
11	AB	4871	DG	O3'-P	10.05	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6985	DG	O3'-P	10.05	1.73	1.61
124	KD	19	DG	O3'-P	10.05	1.73	1.61
43	D8	5	DG	O3'-P	10.05	1.73	1.61
117	K5	44	DG	O3'-P	10.05	1.73	1.61
138	M5	23	DG	O3'-P	10.05	1.73	1.61
146	N2	8	DG	O3'-P	10.05	1.73	1.61
188	R7	10	DG	O3'-P	10.05	1.73	1.61
234	W9	8	DG	O3'-P	10.05	1.73	1.61
6	A6	6	DG	O3'-P	10.05	1.73	1.61
11	AB	1046	DG	O3'-P	10.05	1.73	1.61
11	AB	1339	DG	O3'-P	10.05	1.73	1.61
11	AB	1634	DG	O3'-P	10.05	1.73	1.61
11	AB	1641	DG	O3'-P	10.05	1.73	1.61
11	AB	2045	DG	O3'-P	10.05	1.73	1.61
11	AB	3521	DG	O3'-P	10.05	1.73	1.61
11	AB	4638	DG	O3'-P	10.05	1.73	1.61
11	AB	6100	DG	O3'-P	10.05	1.73	1.61
11	AB	7081	DG	O3'-P	10.05	1.73	1.61
114	K1	22	DG	O3'-P	10.05	1.73	1.61
11	AB	2193	DG	O3'-P	10.05	1.73	1.61
11	AB	3661	DG	O3'-P	10.05	1.73	1.61
11	AB	3680	DG	O3'-P	10.05	1.73	1.61
11	AB	4365	DG	O3'-P	10.05	1.73	1.61
11	AB	4535	DG	O3'-P	10.05	1.73	1.61
11	AB	5289	DG	O3'-P	10.05	1.73	1.61
11	AB	6001	DG	O3'-P	10.05	1.73	1.61
67	FA	22	DG	O3'-P	10.05	1.73	1.61
125	L1	29	DG	O3'-P	10.05	1.73	1.61
133	LA	19	DG	O3'-P	10.05	1.73	1.61
152	N9	12	DG	O3'-P	10.05	1.73	1.61
192	RC	28	DG	O3'-P	10.05	1.73	1.61
196	S5	4	DG	O3'-P	10.05	1.73	1.61
214	U5	38	DG	O3'-P	10.05	1.73	1.61
11	AB	5557	DG	O3'-P	10.05	1.73	1.61
53	E7	1	DG	O3'-P	10.05	1.73	1.61
11	AB	124	DG	O3'-P	10.04	1.73	1.61
11	AB	223	DG	O3'-P	10.04	1.73	1.61
11	AB	1589	DG	O3'-P	10.04	1.73	1.61
11	AB	2782	DG	O3'-P	10.04	1.73	1.61
11	AB	3013	DG	O3'-P	10.04	1.73	1.61
25	BD	17	DG	O3'-P	10.05	1.73	1.61
11	AB	4338	DG	O3'-P	10.04	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	4881	DG	O3'-P	10.04	1.73	1.61
11	AB	5257	DG	O3'-P	10.04	1.73	1.61
11	AB	5875	DG	O3'-P	10.05	1.73	1.61
11	AB	6126	DG	O3'-P	10.04	1.73	1.61
11	AB	6870	DG	O3'-P	10.05	1.73	1.61
39	D3	3	DG	O3'-P	10.05	1.73	1.61
46	DC	14	DG	O3'-P	10.05	1.73	1.61
58	ED	9	DG	O3'-P	10.05	1.73	1.61
75	G7	24	DG	O3'-P	10.05	1.73	1.61
11	AB	6357	DG	O3'-P	10.04	1.73	1.61
93	I2	36	DG	O3'-P	10.04	1.73	1.61
128	L5	1	DG	O3'-P	10.04	1.73	1.61
187	R5	25	DG	O3'-P	10.04	1.73	1.61
206	T7	34	DG	O3'-P	10.04	1.73	1.61
211	TD	13	DG	O3'-P	10.04	1.73	1.61
11	AB	32	DG	O3'-P	10.04	1.73	1.61
11	AB	6817	DG	O3'-P	10.04	1.73	1.61
14	B1	18	DG	O3'-P	10.04	1.73	1.61
94	I3	2	DG	O3'-P	10.04	1.73	1.61
180	Q8	26	DG	O3'-P	10.04	1.73	1.61
8	A8	5	DG	O3'-P	10.04	1.73	1.61
11	AB	367	DG	O3'-P	10.04	1.73	1.61
11	AB	1029	DG	O3'-P	10.04	1.73	1.61
11	AB	2056	DG	O3'-P	10.04	1.73	1.61
11	AB	2214	DG	O3'-P	10.04	1.73	1.61
11	AB	4789	DG	O3'-P	10.04	1.73	1.61
11	AB	6616	DG	O3'-P	10.04	1.73	1.61
22	B9	47	DG	O3'-P	10.04	1.73	1.61
24	BC	23	DG	O3'-P	10.04	1.73	1.61
34	CA	13	DG	O3'-P	10.04	1.73	1.61
149	N6	26	DG	O3'-P	10.04	1.73	1.61
155	ND	10	DG	O3'-P	10.04	1.73	1.61
203	T2	22	DG	O3'-P	10.04	1.73	1.61
11	AB	541	DG	O3'-P	10.04	1.73	1.61
11	AB	1341	DG	O3'-P	10.04	1.73	1.61
11	AB	1362	DG	O3'-P	10.04	1.73	1.61
11	AB	1739	DG	O3'-P	10.04	1.73	1.61
11	AB	2679	DG	O3'-P	10.04	1.73	1.61
11	AB	2926	DG	O3'-P	10.04	1.73	1.61
87	H8	15	DG	O3'-P	10.04	1.73	1.61
107	J6	41	DG	O3'-P	10.04	1.73	1.61
11	AB	1527	DG	O3'-P	10.04	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2643	DG	O3'-P	10.04	1.73	1.61
11	AB	3208	DG	O3'-P	10.04	1.73	1.61
11	AB	4542	DG	O3'-P	10.04	1.73	1.61
14	B1	3	DG	O3'-P	10.04	1.73	1.61
41	D6	27	DG	O3'-P	10.04	1.73	1.61
11	AB	3020	DG	O3'-P	10.04	1.73	1.61
11	AB	3604	DG	O3'-P	10.04	1.73	1.61
11	AB	3649	DG	O3'-P	10.04	1.73	1.61
11	AB	3880	DG	O3'-P	10.04	1.73	1.61
11	AB	3993	DG	O3'-P	10.04	1.73	1.61
11	AB	4029	DG	O3'-P	10.04	1.73	1.61
11	AB	4344	DG	O3'-P	10.04	1.73	1.61
11	AB	4355	DG	O3'-P	10.04	1.73	1.61
11	AB	5168	DG	O3'-P	10.04	1.73	1.61
11	AB	5728	DG	O3'-P	10.04	1.73	1.61
11	AB	5818	DG	O3'-P	10.04	1.73	1.61
11	AB	6565	DG	O3'-P	10.04	1.73	1.61
23	BA	34	DG	O3'-P	10.04	1.73	1.61
48	E1	26	DG	O3'-P	10.04	1.73	1.61
91	HD	26	DG	O3'-P	10.04	1.73	1.61
97	I7	14	DG	O3'-P	10.04	1.73	1.61
149	N6	24	DG	O3'-P	10.04	1.73	1.61
11	AB	6897	DG	O3'-P	10.04	1.73	1.61
3	A3	10	DG	O3'-P	10.03	1.73	1.61
5	A5	19	DG	O3'-P	10.03	1.73	1.61
11	AB	317	DG	O3'-P	10.04	1.73	1.61
11	AB	2209	DG	O3'-P	10.04	1.73	1.61
11	AB	4021	DG	O3'-P	10.03	1.73	1.61
11	AB	4036	DG	O3'-P	10.04	1.73	1.61
11	AB	4633	DG	O3'-P	10.04	1.73	1.61
11	AB	6115	DG	O3'-P	10.03	1.73	1.61
11	AB	6479	DG	O3'-P	10.04	1.73	1.61
13	AD	38	DG	O3'-P	10.04	1.73	1.61
126	L2	17	DG	O3'-P	10.04	1.73	1.61
173	PA	18	DG	O3'-P	10.04	1.73	1.61
187	R5	37	DG	O3'-P	10.04	1.73	1.61
218	UA	18	DG	O3'-P	10.04	1.73	1.61
221	V2	15	DG	O3'-P	10.04	1.73	1.61
233	W8	15	DG	O3'-P	10.04	1.73	1.61
235	WD	12	DG	O3'-P	10.03	1.73	1.61
11	AB	29	DG	O3'-P	10.03	1.73	1.61
11	AB	1188	DG	O3'-P	10.03	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3544	DG	O3'-P	10.03	1.73	1.61
11	AB	3822	DG	O3'-P	10.03	1.73	1.61
11	AB	5434	DG	O3'-P	10.03	1.73	1.61
11	AB	6874	DG	O3'-P	10.03	1.73	1.61
11	AB	7136	DG	O3'-P	10.03	1.73	1.61
148	N5	12	DG	O3'-P	10.03	1.73	1.61
1	A1	29	DG	O3'-P	10.03	1.73	1.61
11	AB	340	DG	O3'-P	10.03	1.73	1.61
11	AB	6568	DG	O3'-P	10.03	1.73	1.61
11	AB	7078	DG	O3'-P	10.03	1.73	1.61
47	DD	34	DG	O3'-P	10.03	1.73	1.61
101	IC	13	DG	O3'-P	10.03	1.73	1.61
102	ID	17	DG	O3'-P	10.03	1.73	1.61
146	N2	3	DG	O3'-P	10.03	1.73	1.61
166	P2	13	DG	O3'-P	10.03	1.73	1.61
11	AB	64	DG	O3'-P	10.03	1.73	1.61
11	AB	183	DG	O3'-P	10.03	1.73	1.61
11	AB	1074	DG	O3'-P	10.03	1.73	1.61
11	AB	1380	DG	O3'-P	10.03	1.73	1.61
11	AB	1643	DG	O3'-P	10.03	1.73	1.61
11	AB	2206	DG	O3'-P	10.03	1.73	1.61
11	AB	2292	DG	O3'-P	10.03	1.73	1.61
11	AB	2356	DG	O3'-P	10.03	1.73	1.61
11	AB	4278	DG	O3'-P	10.03	1.73	1.61
11	AB	4284	DG	O3'-P	10.03	1.73	1.61
11	AB	5029	DG	O3'-P	10.03	1.73	1.61
11	AB	5124	DG	O3'-P	10.03	1.73	1.61
11	AB	5150	DG	O3'-P	10.03	1.73	1.61
11	AB	5660	DG	O3'-P	10.03	1.73	1.61
11	AB	5802	DG	O3'-P	10.03	1.73	1.61
11	AB	6245	DG	O3'-P	10.03	1.73	1.61
11	AB	6439	DG	O3'-P	10.03	1.73	1.61
11	AB	6499	DG	O3'-P	10.03	1.73	1.61
11	AB	7197	DG	O3'-P	10.03	1.73	1.61
11	AB	6672	DG	O3'-P	10.03	1.73	1.61
11	AB	7091	DG	O3'-P	10.03	1.73	1.61
11	AB	7169	DG	O3'-P	10.03	1.73	1.61
28	C3	8	DG	O3'-P	10.03	1.73	1.61
64	F7	24	DG	O3'-P	10.03	1.73	1.61
67	FA	6	DG	O3'-P	10.03	1.73	1.61
83	H3	26	DG	O3'-P	10.03	1.73	1.61
102	ID	8	DG	O3'-P	10.03	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
137	M3	26	DG	O3'-P	10.03	1.73	1.61
190	R9	23	DG	O3'-P	10.03	1.73	1.61
207	T8	14	DG	O3'-P	10.03	1.73	1.61
1	A1	53	DG	O3'-P	10.03	1.73	1.61
11	AB	6328	DG	O3'-P	10.03	1.73	1.61
11	AB	6931	DG	O3'-P	10.03	1.73	1.61
11	AB	7102	DG	O3'-P	10.03	1.73	1.61
56	EA	15	DG	O3'-P	10.03	1.73	1.61
94	I3	40	DG	O3'-P	10.03	1.73	1.61
94	I3	43	DG	O3'-P	10.03	1.73	1.61
134	LC	10	DG	O3'-P	10.03	1.73	1.61
153	NA	17	DG	O3'-P	10.03	1.73	1.61
194	S2	5	DG	O3'-P	10.03	1.73	1.61
223	V5	7	DG	O3'-P	10.03	1.73	1.61
2	A2	26	DG	O3'-P	10.02	1.73	1.61
11	AB	430	DG	O3'-P	10.02	1.73	1.61
11	AB	2818	DG	O3'-P	10.02	1.73	1.61
11	AB	2607	DG	O3'-P	10.02	1.73	1.61
11	AB	3040	DG	O3'-P	10.02	1.73	1.61
11	AB	3502	DG	O3'-P	10.02	1.73	1.61
11	AB	4290	DG	O3'-P	10.02	1.73	1.61
11	AB	5228	DG	O3'-P	10.02	1.73	1.61
56	EA	8	DG	O3'-P	10.02	1.73	1.61
116	K3	10	DG	O3'-P	10.02	1.73	1.61
11	AB	3723	DG	O3'-P	10.02	1.73	1.61
11	AB	3753	DG	O3'-P	10.02	1.73	1.61
11	AB	3766	DG	O3'-P	10.02	1.73	1.61
11	AB	4094	DG	O3'-P	10.02	1.73	1.61
214	U5	30	DG	O3'-P	10.02	1.73	1.61
11	AB	4814	DG	O3'-P	10.02	1.73	1.61
11	AB	5710	DG	O3'-P	10.02	1.73	1.61
11	AB	6460	DG	O3'-P	10.02	1.73	1.61
11	AB	6849	DG	O3'-P	10.02	1.73	1.61
108	J7	36	DG	O3'-P	10.02	1.73	1.61
117	K5	36	DG	O3'-P	10.02	1.73	1.61
161	O8	9	DG	O3'-P	10.02	1.73	1.61
211	TD	17	DG	O3'-P	10.02	1.73	1.61
232	W7	23	DG	O3'-P	10.02	1.73	1.61
11	AB	481	DG	O3'-P	10.02	1.73	1.61
11	AB	704	DG	O3'-P	10.02	1.73	1.61
11	AB	1552	DG	O3'-P	10.02	1.73	1.61
11	AB	2110	DG	O3'-P	10.02	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2379	DG	O3'-P	10.02	1.73	1.61
11	AB	2829	DG	O3'-P	10.02	1.73	1.61
11	AB	3069	DG	O3'-P	10.02	1.73	1.61
11	AB	3252	DG	O3'-P	10.02	1.73	1.61
11	AB	3960	DG	O3'-P	10.02	1.73	1.61
11	AB	4180	DG	O3'-P	10.02	1.73	1.61
11	AB	4551	DG	O3'-P	10.02	1.73	1.61
11	AB	4904	DG	O3'-P	10.02	1.73	1.61
11	AB	5993	DG	O3'-P	10.02	1.73	1.61
11	AB	6142	DG	O3'-P	10.02	1.73	1.61
11	AB	6180	DG	O3'-P	10.02	1.73	1.61
11	AB	6717	DG	O3'-P	10.02	1.73	1.61
11	AB	6923	DG	O3'-P	10.02	1.73	1.61
11	AB	7038	DG	O3'-P	10.02	1.73	1.61
11	AB	7070	DG	O3'-P	10.02	1.73	1.61
19	B6	17	DG	O3'-P	10.02	1.73	1.61
31	C7	15	DG	O3'-P	10.02	1.73	1.61
49	E2	17	DG	O3'-P	10.02	1.73	1.61
204	T3	31	DG	O3'-P	10.02	1.73	1.61
218	UA	8	DG	O3'-P	10.02	1.73	1.61
221	V2	7	DG	O3'-P	10.02	1.73	1.61
11	AB	150	DG	O3'-P	10.02	1.73	1.61
11	AB	346	DG	O3'-P	10.02	1.73	1.61
11	AB	2962	DG	O3'-P	10.02	1.73	1.61
11	AB	3243	DG	O3'-P	10.02	1.73	1.61
11	AB	5192	DG	O3'-P	10.02	1.73	1.61
238	X9	26	DG	O3'-P	10.02	1.73	1.61
11	AB	220	DG	O3'-P	10.02	1.73	1.61
11	AB	666	DG	O3'-P	10.02	1.73	1.61
11	AB	2139	DG	O3'-P	10.02	1.73	1.61
11	AB	6842	DG	O3'-P	10.02	1.73	1.61
21	B8	12	DG	O3'-P	10.02	1.73	1.61
84	H5	7	DG	O3'-P	10.02	1.73	1.61
122	KA	3	DG	O3'-P	10.02	1.73	1.61
3	A3	17	DG	O3'-P	10.01	1.73	1.61
5	A5	39	DG	O3'-P	10.01	1.73	1.61
11	AB	1660	DG	O3'-P	10.01	1.73	1.61
11	AB	1724	DG	O3'-P	10.01	1.73	1.61
11	AB	1902	DG	O3'-P	10.01	1.73	1.61
11	AB	2418	DG	O3'-P	10.01	1.73	1.61
11	AB	3395	DG	O3'-P	10.01	1.73	1.61
11	AB	3419	DG	O3'-P	10.01	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3914	DG	O3'-P	10.01	1.73	1.61
11	AB	4953	DG	O3'-P	10.01	1.73	1.61
47	DD	6	DG	O3'-P	10.01	1.73	1.61
56	EA	12	DG	O3'-P	10.01	1.73	1.61
11	AB	16	DG	O3'-P	10.01	1.73	1.61
11	AB	26	DG	O3'-P	10.01	1.73	1.61
11	AB	731	DG	O3'-P	10.01	1.73	1.61
11	AB	895	DG	O3'-P	10.01	1.73	1.61
11	AB	4485	DG	O3'-P	10.01	1.73	1.61
11	AB	2301	DG	O3'-P	10.01	1.73	1.61
11	AB	4228	DG	O3'-P	10.01	1.73	1.61
11	AB	5325	DG	O3'-P	10.01	1.73	1.61
11	AB	5686	DG	O3'-P	10.01	1.73	1.61
11	AB	6557	DG	O3'-P	10.01	1.73	1.61
35	CC	22	DG	O3'-P	10.01	1.73	1.61
11	AB	7004	DG	O3'-P	10.01	1.73	1.61
11	AB	7180	DG	O3'-P	10.01	1.73	1.61
32	C8	42	DG	O3'-P	10.01	1.73	1.61
33	C9	20	DG	O3'-P	10.01	1.73	1.61
49	E2	34	DG	O3'-P	10.01	1.73	1.61
79	GC	18	DG	O3'-P	10.01	1.73	1.61
133	LA	13	DG	O3'-P	10.01	1.73	1.61
138	M5	32	DG	O3'-P	10.01	1.73	1.61
169	P6	12	DG	O3'-P	10.01	1.73	1.61
204	T3	44	DG	O3'-P	10.01	1.73	1.61
11	AB	1648	DG	O3'-P	10.01	1.73	1.61
11	AB	2893	DG	O3'-P	10.01	1.73	1.61
11	AB	5099	DG	O3'-P	10.01	1.73	1.61
11	AB	6449	DG	O3'-P	10.01	1.73	1.61
34	CA	17	DG	O3'-P	10.01	1.73	1.61
51	E5	8	DG	O3'-P	10.01	1.73	1.61
80	GD	16	DG	O3'-P	10.01	1.73	1.61
102	ID	26	DG	O3'-P	10.01	1.73	1.61
128	L5	4	DG	O3'-P	10.01	1.73	1.61
182	QA	9	DG	O3'-P	10.01	1.73	1.61
204	T3	18	DG	O3'-P	10.01	1.73	1.61
11	AB	1288	DG	O3'-P	10.00	1.73	1.61
11	AB	3361	DG	O3'-P	10.00	1.73	1.61
11	AB	6621	DG	O3'-P	10.00	1.73	1.61
11	AB	6992	DG	O3'-P	10.00	1.73	1.61
97	I7	33	DG	O3'-P	10.00	1.73	1.61
11	AB	439	DG	O3'-P	10.00	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	1144	DG	O3'-P	10.00	1.73	1.61
11	AB	2298	DG	O3'-P	10.00	1.73	1.61
11	AB	3547	DG	O3'-P	10.00	1.73	1.61
11	AB	3757	DG	O3'-P	10.00	1.73	1.61
11	AB	6239	DG	O3'-P	10.00	1.73	1.61
11	AB	6611	DG	O3'-P	10.00	1.73	1.61
11	AB	7059	DG	O3'-P	10.00	1.73	1.61
76	G8	1	DG	O3'-P	10.00	1.73	1.61
113	JD	33	DG	O3'-P	10.00	1.73	1.61
121	K9	25	DG	O3'-P	10.00	1.73	1.61
142	M9	21	DG	O3'-P	10.00	1.73	1.61
144	MC	13	DG	O3'-P	10.00	1.73	1.61
11	AB	2239	DG	O3'-P	10.00	1.73	1.61
11	AB	2401	DG	O3'-P	10.00	1.73	1.61
11	AB	2479	DG	O3'-P	10.00	1.73	1.61
11	AB	3689	DG	O3'-P	10.00	1.73	1.61
11	AB	3925	DG	O3'-P	10.00	1.73	1.61
14	B1	39	DG	O3'-P	10.00	1.73	1.61
134	LC	19	DG	O3'-P	10.00	1.73	1.61
11	AB	1593	DG	O3'-P	10.00	1.73	1.61
11	AB	2456	DG	O3'-P	10.00	1.73	1.61
11	AB	3155	DG	O3'-P	10.00	1.73	1.61
11	AB	4239	DG	O3'-P	10.00	1.73	1.61
11	AB	5503	DG	O3'-P	10.00	1.73	1.61
11	AB	6279	DG	O3'-P	10.00	1.73	1.61
11	AB	6521	DG	O3'-P	10.00	1.73	1.61
11	AB	6982	DG	O3'-P	10.00	1.73	1.61
69	FD	9	DG	O3'-P	10.00	1.73	1.61
108	J7	12	DG	O3'-P	10.00	1.73	1.61
115	K2	11	DG	O3'-P	10.00	1.73	1.61
11	AB	460	DG	O3'-P	10.00	1.73	1.61
11	AB	3476	DG	O3'-P	10.00	1.73	1.61
11	AB	4068	DG	O3'-P	10.00	1.73	1.61
11	AB	6780	DG	O3'-P	10.00	1.73	1.61
53	E7	20	DG	O3'-P	10.00	1.73	1.61
22	B9	9	DG	O3'-P	10.00	1.73	1.61
11	AB	874	DG	O3'-P	9.99	1.73	1.61
67	FA	15	DG	O3'-P	9.99	1.73	1.61
11	AB	261	DG	O3'-P	9.99	1.73	1.61
11	AB	476	DG	O3'-P	9.99	1.73	1.61
11	AB	1391	DG	O3'-P	9.99	1.73	1.61
84	H5	3	DG	O3'-P	9.99	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
148	N5	7	DG	O3'-P	9.99	1.73	1.61
178	Q5	30	DG	O3'-P	9.99	1.73	1.61
196	S5	29	DG	O3'-P	9.99	1.73	1.61
11	AB	3478	DG	O3'-P	9.99	1.73	1.61
11	AB	4661	DG	O3'-P	9.99	1.73	1.61
11	AB	5208	DG	O3'-P	9.99	1.73	1.61
29	C5	33	DG	O3'-P	9.99	1.73	1.61
29	C5	40	DG	O3'-P	9.99	1.73	1.61
41	D6	33	DG	O3'-P	9.99	1.73	1.61
99	I9	14	DG	O3'-P	9.99	1.73	1.61
231	W5	8	DG	O3'-P	9.99	1.73	1.61
119	K7	29	DG	O3'-P	9.99	1.73	1.61
182	QA	24	DG	O3'-P	9.99	1.73	1.61
218	UA	16	DG	O3'-P	9.99	1.73	1.61
11	AB	3430	DG	O3'-P	9.99	1.73	1.61
5	A5	25	DG	O3'-P	9.99	1.73	1.61
11	AB	1138	DG	O3'-P	9.99	1.73	1.61
11	AB	1685	DG	O3'-P	9.99	1.73	1.61
11	AB	3310	DG	O3'-P	9.99	1.73	1.61
11	AB	6765	DG	O3'-P	9.99	1.73	1.61
11	AB	7040	DG	O3'-P	9.99	1.73	1.61
11	AB	7129	DG	O3'-P	9.99	1.73	1.61
44	D9	7	DG	O3'-P	9.99	1.73	1.61
68	FC	11	DG	O3'-P	9.99	1.73	1.61
97	I7	26	DG	O3'-P	9.99	1.73	1.61
98	I8	39	DG	O3'-P	9.99	1.73	1.61
166	P2	6	DG	O3'-P	9.99	1.73	1.61
168	P5	10	DG	O3'-P	9.99	1.73	1.61
11	AB	916	DG	O3'-P	9.99	1.73	1.61
11	AB	3097	DG	O3'-P	9.99	1.73	1.61
11	AB	5068	DG	O3'-P	9.99	1.73	1.61
72	G3	20	DG	O3'-P	9.99	1.73	1.61
11	AB	3314	DG	O3'-P	9.99	1.73	1.61
11	AB	5914	DG	O3'-P	9.99	1.73	1.61
31	C7	13	DG	O3'-P	9.99	1.73	1.61
58	ED	37	DG	O3'-P	9.99	1.73	1.61
152	N9	4	DG	O3'-P	9.99	1.73	1.61
182	QA	6	DG	O3'-P	9.99	1.73	1.61
8	A8	7	DG	O3'-P	9.98	1.73	1.61
11	AB	925	DG	O3'-P	9.98	1.73	1.61
5	A5	41	DG	O3'-P	9.98	1.73	1.61
11	AB	1481	DG	O3'-P	9.98	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2096	DG	O3'-P	9.98	1.73	1.61
11	AB	2235	DG	O3'-P	9.98	1.73	1.61
11	AB	4753	DG	O3'-P	9.98	1.73	1.61
11	AB	4993	DG	O3'-P	9.98	1.73	1.61
11	AB	6270	DG	O3'-P	9.98	1.73	1.61
145	MD	46	DG	O3'-P	9.98	1.73	1.61
84	H5	14	DG	O3'-P	9.98	1.73	1.61
160	O7	8	DG	O3'-P	9.98	1.73	1.61
160	O7	43	DG	O3'-P	9.98	1.73	1.61
164	OC	26	DG	O3'-P	9.98	1.73	1.61
216	U8	5	DG	O3'-P	9.98	1.73	1.61
230	W3	13	DG	O3'-P	9.98	1.73	1.61
194	S2	25	DG	O3'-P	9.98	1.73	1.61
11	AB	412	DG	O3'-P	9.98	1.73	1.61
11	AB	880	DG	O3'-P	9.98	1.73	1.61
11	AB	955	DG	O3'-P	9.98	1.73	1.61
11	AB	1697	DG	O3'-P	9.98	1.73	1.61
11	AB	2334	DG	O3'-P	9.98	1.73	1.61
11	AB	3232	DG	O3'-P	9.98	1.73	1.61
48	E1	21	DG	O3'-P	9.98	1.73	1.61
11	AB	2341	DG	O3'-P	9.98	1.73	1.61
11	AB	2944	DG	O3'-P	9.98	1.73	1.61
11	AB	3525	DG	O3'-P	9.98	1.73	1.61
11	AB	3611	DG	O3'-P	9.98	1.73	1.61
11	AB	4745	DG	O3'-P	9.98	1.73	1.61
11	AB	5448	DG	O3'-P	9.98	1.73	1.61
11	AB	6019	DG	O3'-P	9.98	1.73	1.61
11	AB	6857	DG	O3'-P	9.98	1.73	1.61
35	CC	28	DG	O3'-P	9.98	1.73	1.61
45	DA	9	DG	O3'-P	9.98	1.73	1.61
79	GC	21	DG	O3'-P	9.98	1.73	1.61
133	LA	3	DG	O3'-P	9.98	1.73	1.61
161	O8	23	DG	O3'-P	9.98	1.73	1.61
161	O8	36	DG	O3'-P	9.98	1.73	1.61
179	Q7	13	DG	O3'-P	9.98	1.73	1.61
207	T8	9	DG	O3'-P	9.98	1.73	1.61
215	U7	14	DG	O3'-P	9.98	1.73	1.61
5	A5	9	DG	O3'-P	9.98	1.73	1.61
11	AB	333	DG	O3'-P	9.98	1.73	1.61
11	AB	6724	DG	O3'-P	9.98	1.73	1.61
11	AB	760	DG	O3'-P	9.98	1.73	1.61
11	AB	6573	DG	O3'-P	9.98	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	H6	31	DG	O3'-P	9.98	1.73	1.61
93	I2	38	DG	O3'-P	9.98	1.73	1.61
95	I5	18	DG	O3'-P	9.98	1.73	1.61
96	I6	5	DG	O3'-P	9.98	1.73	1.61
131	L8	27	DG	O3'-P	9.98	1.73	1.61
149	N6	21	DG	O3'-P	9.98	1.73	1.61
149	N6	36	DG	O3'-P	9.98	1.73	1.61
168	P5	15	DG	O3'-P	9.98	1.73	1.61
187	R5	23	DG	O3'-P	9.98	1.73	1.61
11	AB	1929	DG	O3'-P	9.97	1.73	1.61
11	AB	2734	DG	O3'-P	9.97	1.73	1.61
11	AB	3629	DG	O3'-P	9.97	1.73	1.61
101	IC	25	DG	O3'-P	9.97	1.73	1.61
11	AB	3277	DG	O3'-P	9.97	1.73	1.61
11	AB	4743	DG	O3'-P	9.97	1.73	1.61
11	AB	5924	DG	O3'-P	9.97	1.73	1.61
11	AB	7032	DG	O3'-P	9.97	1.73	1.61
13	AD	11	DG	O3'-P	9.97	1.73	1.61
72	G3	26	DG	O3'-P	9.97	1.73	1.61
234	W9	1	DG	O3'-P	9.97	1.73	1.61
152	N9	45	DG	O3'-P	9.97	1.73	1.61
11	AB	824	DG	O3'-P	9.97	1.73	1.61
11	AB	310	DG	O3'-P	9.97	1.73	1.61
11	AB	1677	DG	O3'-P	9.97	1.73	1.61
11	AB	2595	DG	O3'-P	9.97	1.73	1.61
11	AB	6422	DG	O3'-P	9.97	1.73	1.61
11	AB	6715	DG	O3'-P	9.97	1.73	1.61
21	B8	26	DG	O3'-P	9.97	1.73	1.61
22	B9	34	DG	O3'-P	9.97	1.73	1.61
11	AB	6937	DG	O3'-P	9.97	1.73	1.61
42	D7	9	DG	O3'-P	9.97	1.73	1.61
73	G5	22	DG	O3'-P	9.97	1.73	1.61
158	O5	7	DG	O3'-P	9.97	1.73	1.61
166	P2	22	DG	O3'-P	9.97	1.73	1.61
219	UC	18	DG	O3'-P	9.97	1.73	1.61
227	VA	24	DG	O3'-P	9.97	1.73	1.61
238	X9	37	DG	O3'-P	9.97	1.73	1.61
11	AB	1853	DG	O3'-P	9.97	1.73	1.61
11	AB	2526	DG	O3'-P	9.97	1.73	1.61
11	AB	714	DG	O3'-P	9.97	1.73	1.61
11	AB	1114	DG	O3'-P	9.97	1.73	1.61
11	AB	2656	DG	O3'-P	9.97	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	3824	DG	O3'-P	9.97	1.73	1.61
11	AB	4482	DG	O3'-P	9.97	1.73	1.61
11	AB	3890	DG	O3'-P	9.97	1.73	1.61
11	AB	7019	DG	O3'-P	9.97	1.73	1.61
22	B9	17	DG	O3'-P	9.97	1.73	1.61
42	D7	4	DG	O3'-P	9.97	1.73	1.61
78	GA	8	DG	O3'-P	9.97	1.73	1.61
144	MC	10	DG	O3'-P	9.97	1.73	1.61
161	O8	57	DG	O3'-P	9.97	1.73	1.61
4	A4	25	DG	O3'-P	9.96	1.73	1.61
6	A6	23	DG	O3'-P	9.97	1.73	1.61
11	AB	751	DG	O3'-P	9.97	1.73	1.61
11	AB	871	DG	O3'-P	9.97	1.73	1.61
11	AB	2173	DG	O3'-P	9.97	1.73	1.61
11	AB	3181	DG	O3'-P	9.97	1.73	1.61
11	AB	1825	DG	O3'-P	9.96	1.73	1.61
11	AB	3966	DG	O3'-P	9.96	1.73	1.61
11	AB	4315	DG	O3'-P	9.96	1.73	1.61
11	AB	5279	DG	O3'-P	9.96	1.73	1.61
11	AB	6653	DG	O3'-P	9.96	1.73	1.61
70	G1	16	DG	O3'-P	9.96	1.73	1.61
102	ID	32	DG	O3'-P	9.96	1.73	1.61
145	MD	15	DG	O3'-P	9.96	1.73	1.61
153	NA	7	DG	O3'-P	9.97	1.73	1.61
188	R7	3	DG	O3'-P	9.96	1.73	1.61
11	AB	3677	DG	O3'-P	9.96	1.73	1.61
33	C9	14	DG	O3'-P	9.96	1.73	1.61
100	IA	6	DG	O3'-P	9.96	1.73	1.61
11	AB	1470	DG	O3'-P	9.96	1.73	1.61
11	AB	5179	DG	O3'-P	9.96	1.73	1.61
207	T8	7	DG	O3'-P	9.96	1.73	1.61
11	AB	330	DG	O3'-P	9.96	1.73	1.61
11	AB	1433	DG	O3'-P	9.96	1.73	1.61
11	AB	2022	DG	O3'-P	9.96	1.73	1.61
11	AB	1275	DG	O3'-P	9.96	1.73	1.61
11	AB	3044	DG	O3'-P	9.96	1.73	1.61
11	AB	4112	DG	O3'-P	9.96	1.73	1.61
69	FD	26	DG	O3'-P	9.96	1.73	1.61
82	H2	36	DG	O3'-P	9.96	1.73	1.61
203	T2	14	DG	O3'-P	9.96	1.73	1.61
231	W5	18	DG	O3'-P	9.96	1.73	1.61
11	AB	38	DG	O3'-P	9.96	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	2533	DG	O3'-P	9.96	1.73	1.61
11	AB	3163	DG	O3'-P	9.96	1.73	1.61
11	AB	4197	DG	O3'-P	9.95	1.73	1.61
11	AB	6431	DG	O3'-P	9.96	1.73	1.61
11	AB	6434	DG	O3'-P	9.95	1.73	1.61
11	AB	6878	DG	O3'-P	9.95	1.73	1.61
64	F7	15	DG	O3'-P	9.96	1.73	1.61
172	P9	15	DG	O3'-P	9.96	1.73	1.61
11	AB	9	DG	O3'-P	9.95	1.73	1.61
11	AB	213	DG	O3'-P	9.95	1.73	1.61
11	AB	1418	DG	O3'-P	9.95	1.73	1.61
11	AB	3409	DG	O3'-P	9.95	1.73	1.61
11	AB	4042	DG	O3'-P	9.95	1.73	1.61
11	AB	3235	DG	O3'-P	9.95	1.73	1.61
11	AB	3466	DG	O3'-P	9.95	1.73	1.61
11	AB	6518	DG	O3'-P	9.95	1.73	1.61
11	AB	4834	DG	O3'-P	9.95	1.73	1.61
194	S2	18	DG	O3'-P	9.95	1.73	1.61
11	AB	1257	DG	O3'-P	9.95	1.73	1.61
11	AB	1315	DG	O3'-P	9.95	1.73	1.61
11	AB	1984	DG	O3'-P	9.95	1.73	1.61
11	AB	2604	DG	O3'-P	9.95	1.73	1.61
11	AB	3247	DG	O3'-P	9.95	1.73	1.61
11	AB	4685	DG	O3'-P	9.95	1.73	1.61
11	AB	5048	DG	O3'-P	9.95	1.73	1.61
11	AB	5346	DG	O3'-P	9.95	1.73	1.61
11	AB	6775	DG	O3'-P	9.95	1.73	1.61
24	BC	34	DG	O3'-P	9.95	1.73	1.61
51	E5	16	DG	O3'-P	9.95	1.73	1.61
96	I6	10	DG	O3'-P	9.95	1.73	1.61
11	AB	5382	DG	O3'-P	9.95	1.73	1.61
182	QA	11	DG	O3'-P	9.95	1.73	1.61
228	VC	9	DG	O3'-P	9.95	1.73	1.61
23	BA	5	DG	O3'-P	9.94	1.73	1.61
64	F7	20	DG	O3'-P	9.94	1.73	1.61
223	V5	3	DG	O3'-P	9.95	1.73	1.61
11	AB	409	DG	O3'-P	9.94	1.73	1.61
11	AB	6912	DG	O3'-P	9.94	1.73	1.61
11	AB	952	DG	O3'-P	9.94	1.73	1.61
11	AB	1443	DG	O3'-P	9.94	1.73	1.61
11	AB	4332	DG	O3'-P	9.94	1.73	1.61
11	AB	5464	DG	O3'-P	9.94	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	C6	3	DG	O3'-P	9.94	1.73	1.61
11	AB	5837	DG	O3'-P	9.94	1.73	1.61
30	C6	33	DG	O3'-P	9.94	1.73	1.61
35	CC	18	DG	O3'-P	9.94	1.73	1.61
163	OA	12	DG	O3'-P	9.94	1.73	1.61
1	A1	4	DG	O3'-P	9.94	1.73	1.61
11	AB	1153	DG	O3'-P	9.94	1.73	1.61
11	AB	1489	DG	O3'-P	9.94	1.73	1.61
11	AB	3743	DG	O3'-P	9.94	1.73	1.61
74	G6	33	DG	O3'-P	9.94	1.73	1.61
11	AB	3307	DG	O3'-P	9.94	1.73	1.61
11	AB	3842	DG	O3'-P	9.94	1.73	1.61
11	AB	3600	DG	O3'-P	9.94	1.73	1.61
11	AB	3739	DG	O3'-P	9.94	1.73	1.61
11	AB	5413	DG	O3'-P	9.94	1.73	1.61
11	AB	5893	DG	O3'-P	9.94	1.73	1.61
63	F6	17	DG	O3'-P	9.94	1.73	1.61
11	AB	445	DG	O3'-P	9.94	1.73	1.61
11	AB	2038	DG	O3'-P	9.93	1.73	1.61
11	AB	3866	DG	O3'-P	9.93	1.73	1.61
11	AB	4884	DG	O3'-P	9.93	1.73	1.61
176	Q2	15	DG	O3'-P	9.93	1.73	1.61
11	AB	2951	DG	O3'-P	9.93	1.73	1.61
11	AB	5093	DG	O3'-P	9.93	1.73	1.61
11	AB	6581	DG	O3'-P	9.93	1.73	1.61
56	EA	10	DG	O3'-P	9.93	1.73	1.61
11	AB	1090	DG	O3'-P	9.93	1.73	1.61
11	AB	2766	DG	O3'-P	9.93	1.73	1.61
152	N9	41	DG	O3'-P	9.93	1.73	1.61
11	AB	3458	DG	O3'-P	9.92	1.73	1.61
156	O2	59	DG	O3'-P	9.92	1.73	1.61
11	AB	3703	DG	O3'-P	9.92	1.73	1.61
11	AB	2157	DG	O3'-P	9.91	1.73	1.61
11	AB	6291	DG	O3'-P	9.91	1.73	1.61
74	G6	9	DG	O3'-P	9.91	1.73	1.61
11	AB	805	DG	O3'-P	9.90	1.73	1.61
11	AB	4604	DG	O3'-P	9.90	1.73	1.61
178	Q5	24	DG	O3'-P	9.90	1.73	1.61
213	U3	6	DG	O3'-P	9.90	1.73	1.61
11	AB	375	DG	O3'-P	9.90	1.73	1.61
95	I5	34	DG	O3'-P	9.90	1.73	1.61
55	E9	43	DG	O3'-P	9.90	1.73	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AB	6137	DG	O3'-P	9.90	1.73	1.61
125	L1	45	DG	O3'-P	9.90	1.73	1.61
31	C7	3	DG	O3'-P	9.89	1.73	1.61
161	O8	6	DG	O3'-P	9.89	1.73	1.61
223	V5	32	DG	O3'-P	9.89	1.73	1.61
11	AB	289	DG	O3'-P	9.89	1.73	1.61
11	AB	1450	DG	O3'-P	9.88	1.73	1.61
11	AB	2956	DG	O3'-P	9.89	1.73	1.61
11	AB	2516	DG	O3'-P	9.88	1.73	1.61
11	AB	4868	DG	O3'-P	9.88	1.73	1.61
226	V9	16	DG	O3'-P	9.87	1.73	1.61
11	AB	801	DG	O3'-P	9.87	1.73	1.61
11	AB	1198	DG	O3'-P	9.86	1.73	1.61
232	W7	12	DG	O3'-P	9.87	1.73	1.61

All (30283) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4732	DG	P-O3'-C3'	-13.67	103.30	119.70
187	R5	18	DG	P-O3'-C3'	-13.66	103.30	119.70
215	U7	11	DG	P-O3'-C3'	-13.66	103.30	119.70
11	AB	3473	DG	P-O3'-C3'	-13.66	103.31	119.70
11	AB	4996	DG	P-O3'-C3'	-13.66	103.31	119.70
175	PD	5	DG	P-O3'-C3'	-13.66	103.31	119.70
52	E6	30	DG	P-O3'-C3'	-13.66	103.31	119.70
37	D1	17	DG	P-O3'-C3'	-13.65	103.31	119.70
94	I3	55	DG	P-O3'-C3'	-13.65	103.32	119.70
85	H6	17	DG	P-O3'-C3'	-13.65	103.32	119.70
11	AB	1914	DG	P-O3'-C3'	-13.65	103.32	119.70
46	DC	20	DG	P-O3'-C3'	-13.65	103.32	119.70
58	ED	29	DG	P-O3'-C3'	-13.65	103.32	119.70
7	A7	15	DG	P-O3'-C3'	-13.64	103.33	119.70
11	AB	5749	DG	P-O3'-C3'	-13.64	103.33	119.70
109	J8	34	DG	P-O3'-C3'	-13.64	103.33	119.70
174	PC	23	DG	P-O3'-C3'	-13.64	103.33	119.70
11	AB	2851	DG	P-O3'-C3'	-13.64	103.33	119.70
48	E1	12	DG	P-O3'-C3'	-13.64	103.33	119.70
206	T7	23	DG	P-O3'-C3'	-13.64	103.33	119.70
11	AB	5848	DG	P-O3'-C3'	-13.64	103.33	119.70
167	P3	9	DG	P-O3'-C3'	-13.64	103.34	119.70
11	AB	2273	DG	P-O3'-C3'	-13.64	103.34	119.70
11	AB	2918	DG	P-O3'-C3'	-13.64	103.34	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3998	DG	P-O3'-C3'	-13.63	103.34	119.70
11	AB	4725	DG	P-O3'-C3'	-13.63	103.34	119.70
41	D6	3	DG	P-O3'-C3'	-13.63	103.34	119.70
104	J2	3	DG	P-O3'-C3'	-13.63	103.34	119.70
11	AB	1060	DG	P-O3'-C3'	-13.63	103.34	119.70
11	AB	4076	DG	P-O3'-C3'	-13.63	103.34	119.70
11	AB	4602	DG	P-O3'-C3'	-13.63	103.34	119.70
11	AB	6463	DG	P-O3'-C3'	-13.63	103.34	119.70
213	U3	19	DG	P-O3'-C3'	-13.63	103.34	119.70
11	AB	415	DG	P-O3'-C3'	-13.63	103.34	119.70
11	AB	2035	DG	P-O3'-C3'	-13.63	103.34	119.70
11	AB	3566	DG	P-O3'-C3'	-13.63	103.34	119.70
11	AB	3769	DG	P-O3'-C3'	-13.63	103.34	119.70
168	P5	3	DG	P-O3'-C3'	-13.63	103.34	119.70
11	AB	442	DG	P-O3'-C3'	-13.63	103.35	119.70
11	AB	2885	DG	P-O3'-C3'	-13.63	103.35	119.70
11	AB	3779	DG	P-O3'-C3'	-13.63	103.35	119.70
11	AB	4600	DG	P-O3'-C3'	-13.63	103.35	119.70
11	AB	5764	DG	P-O3'-C3'	-13.63	103.35	119.70
24	BC	39	DG	P-O3'-C3'	-13.63	103.35	119.70
47	DD	41	DG	P-O3'-C3'	-13.63	103.34	119.70
154	NC	30	DG	P-O3'-C3'	-13.63	103.35	119.70
195	S3	2	DG	P-O3'-C3'	-13.63	103.35	119.70
11	AB	3986	DG	P-O3'-C3'	-13.63	103.35	119.70
11	AB	5391	DG	P-O3'-C3'	-13.63	103.35	119.70
11	AB	6349	DG	P-O3'-C3'	-13.63	103.35	119.70
11	AB	3838	DG	P-O3'-C3'	-13.62	103.35	119.70
11	AB	4063	DG	P-O3'-C3'	-13.62	103.35	119.70
11	AB	4496	DG	P-O3'-C3'	-13.62	103.35	119.70
11	AB	4572	DG	P-O3'-C3'	-13.62	103.35	119.70
44	D9	18	DG	P-O3'-C3'	-13.62	103.35	119.70
80	GD	21	DG	P-O3'-C3'	-13.62	103.35	119.70
11	AB	5132	DG	P-O3'-C3'	-13.62	103.35	119.70
211	TD	10	DG	P-O3'-C3'	-13.62	103.35	119.70
47	DD	38	DG	P-O3'-C3'	-13.62	103.36	119.70
82	H2	43	DG	P-O3'-C3'	-13.62	103.35	119.70
83	H3	37	DG	P-O3'-C3'	-13.62	103.35	119.70
166	P2	28	DG	P-O3'-C3'	-13.62	103.35	119.70
112	JC	4	DG	P-O3'-C3'	-13.62	103.36	119.70
119	K7	3	DG	P-O3'-C3'	-13.62	103.36	119.70
152	N9	18	DG	P-O3'-C3'	-13.62	103.35	119.70
10	AA	11	DG	P-O3'-C3'	-13.62	103.36	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	536	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	548	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	635	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	4188	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	4784	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	913	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	1161	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	1927	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	3449	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	3584	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	4048	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	5483	DG	P-O3'-C3'	-13.62	103.36	119.70
84	H5	20	DG	P-O3'-C3'	-13.62	103.36	119.70
125	L1	55	DG	P-O3'-C3'	-13.62	103.36	119.70
161	O8	53	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	2106	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	4249	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	4947	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	6474	DG	P-O3'-C3'	-13.62	103.36	119.70
20	B7	9	DG	P-O3'-C3'	-13.62	103.36	119.70
32	C8	28	DG	P-O3'-C3'	-13.62	103.36	119.70
39	D3	32	DG	P-O3'-C3'	-13.62	103.36	119.70
69	FD	44	DG	P-O3'-C3'	-13.62	103.36	119.70
110	J9	18	DG	P-O3'-C3'	-13.62	103.36	119.70
166	P2	9	DG	P-O3'-C3'	-13.62	103.36	119.70
192	RC	11	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	993	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	1535	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	3461	DG	P-O3'-C3'	-13.62	103.36	119.70
125	L1	12	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	1949	DG	P-O3'-C3'	-13.61	103.36	119.70
11	AB	3514	DG	P-O3'-C3'	-13.61	103.36	119.70
11	AB	4902	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	5036	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	5548	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	5756	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	7231	DG	P-O3'-C3'	-13.62	103.36	119.70
143	MA	11	DG	P-O3'-C3'	-13.62	103.36	119.70
30	C6	31	DG	P-O3'-C3'	-13.61	103.36	119.70
103	J1	13	DG	P-O3'-C3'	-13.62	103.36	119.70
110	J9	15	DG	P-O3'-C3'	-13.62	103.36	119.70
117	K5	3	DG	P-O3'-C3'	-13.62	103.36	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
189	R8	28	DG	P-O3'-C3'	-13.62	103.36	119.70
11	AB	1811	DG	P-O3'-C3'	-13.61	103.36	119.70
11	AB	4025	DG	P-O3'-C3'	-13.61	103.36	119.70
24	BC	8	DG	P-O3'-C3'	-13.61	103.36	119.70
74	G6	21	DG	P-O3'-C3'	-13.61	103.36	119.70
11	AB	999	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	2391	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	4322	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	5864	DG	P-O3'-C3'	-13.61	103.37	119.70
13	AD	28	DG	P-O3'-C3'	-13.61	103.37	119.70
174	PC	7	DG	P-O3'-C3'	-13.61	103.37	119.70
174	PC	11	DG	P-O3'-C3'	-13.61	103.37	119.70
178	Q5	5	DG	P-O3'-C3'	-13.61	103.37	119.70
192	RC	7	DG	P-O3'-C3'	-13.61	103.37	119.70
200	SA	12	DG	P-O3'-C3'	-13.61	103.36	119.70
11	AB	1077	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	1789	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	114	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	1967	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	4154	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	4583	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	5782	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	5793	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	7187	DG	P-O3'-C3'	-13.61	103.37	119.70
55	E9	18	DG	P-O3'-C3'	-13.61	103.37	119.70
106	J5	7	DG	P-O3'-C3'	-13.61	103.37	119.70
136	M2	6	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	6833	DG	P-O3'-C3'	-13.61	103.37	119.70
74	G6	35	DG	P-O3'-C3'	-13.61	103.37	119.70
93	I2	30	DG	P-O3'-C3'	-13.61	103.37	119.70
102	ID	30	DG	P-O3'-C3'	-13.61	103.37	119.70
143	MA	14	DG	P-O3'-C3'	-13.61	103.37	119.70
146	N2	22	DG	P-O3'-C3'	-13.61	103.37	119.70
149	N6	2	DG	P-O3'-C3'	-13.61	103.37	119.70
158	O5	50	DG	P-O3'-C3'	-13.61	103.37	119.70
180	Q8	5	DG	P-O3'-C3'	-13.61	103.37	119.70
187	R5	4	DG	P-O3'-C3'	-13.61	103.37	119.70
188	R7	8	DG	P-O3'-C3'	-13.61	103.37	119.70
197	S7	6	DG	P-O3'-C3'	-13.61	103.37	119.70
203	T2	10	DG	P-O3'-C3'	-13.61	103.37	119.70
212	U2	10	DG	P-O3'-C3'	-13.61	103.37	119.70
4	A4	11	DG	P-O3'-C3'	-13.61	103.37	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2339	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	6752	DG	P-O3'-C3'	-13.61	103.37	119.70
153	NA	15	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	2524	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	4428	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	4842	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	5468	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	6755	DG	P-O3'-C3'	-13.61	103.38	119.70
13	AD	14	DG	P-O3'-C3'	-13.61	103.37	119.70
38	D2	17	DG	P-O3'-C3'	-13.61	103.37	119.70
51	E5	11	DG	P-O3'-C3'	-13.61	103.37	119.70
67	FA	18	DG	P-O3'-C3'	-13.61	103.37	119.70
142	M9	5	DG	P-O3'-C3'	-13.61	103.37	119.70
156	O2	11	DG	P-O3'-C3'	-13.61	103.37	119.70
182	QA	20	DG	P-O3'-C3'	-13.61	103.37	119.70
216	U8	19	DG	P-O3'-C3'	-13.61	103.37	119.70
228	VC	12	DG	P-O3'-C3'	-13.61	103.37	119.70
11	AB	3806	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4071	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	5636	DG	P-O3'-C3'	-13.60	103.38	119.70
101	IC	5	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	42	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	86	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	1126	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	1798	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4175	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4980	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	5176	DG	P-O3'-C3'	-13.60	103.38	119.70
188	R7	14	DG	P-O3'-C3'	-13.60	103.38	119.70
190	R9	28	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	204	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	228	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	2014	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	3653	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4133	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4400	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	6999	DG	P-O3'-C3'	-13.60	103.38	119.70
88	H9	16	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4967	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	5238	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	6146	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	6821	DG	P-O3'-C3'	-13.60	103.38	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B1	21	DG	P-O3'-C3'	-13.60	103.38	119.70
69	FD	2	DG	P-O3'-C3'	-13.60	103.38	119.70
69	FD	46	DG	P-O3'-C3'	-13.60	103.38	119.70
91	HD	19	DG	P-O3'-C3'	-13.60	103.38	119.70
92	I1	23	DG	P-O3'-C3'	-13.60	103.38	119.70
129	L6	23	DG	P-O3'-C3'	-13.60	103.38	119.70
156	O2	45	DG	P-O3'-C3'	-13.60	103.38	119.70
200	SA	6	DG	P-O3'-C3'	-13.60	103.38	119.70
204	T3	24	DG	P-O3'-C3'	-13.60	103.38	119.70
1	A1	15	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	61	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	1494	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	1981	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	2883	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	3888	DG	P-O3'-C3'	-13.60	103.38	119.70
32	C8	4	DG	P-O3'-C3'	-13.60	103.38	119.70
83	H3	5	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	676	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	738	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	1863	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	2996	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4061	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4959	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	6825	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	6940	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	7154	DG	P-O3'-C3'	-13.60	103.38	119.70
69	FD	31	DG	P-O3'-C3'	-13.60	103.38	119.70
113	JD	12	DG	P-O3'-C3'	-13.60	103.38	119.70
143	MA	9	DG	P-O3'-C3'	-13.60	103.38	119.70
181	Q9	16	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	386	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	958	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	1521	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	3456	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	3542	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4004	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4085	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	5365	DG	P-O3'-C3'	-13.60	103.38	119.70
13	AD	33	DG	P-O3'-C3'	-13.60	103.38	119.70
98	I8	25	DG	P-O3'-C3'	-13.60	103.38	119.70
109	J8	2	DG	P-O3'-C3'	-13.60	103.38	119.70
143	MA	30	DG	P-O3'-C3'	-13.60	103.38	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	307	DG	P-O3'-C3'	-13.60	103.39	119.70
11	AB	642	DG	P-O3'-C3'	-13.60	103.39	119.70
11	AB	1971	DG	P-O3'-C3'	-13.60	103.39	119.70
11	AB	3811	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	4216	DG	P-O3'-C3'	-13.60	103.39	119.70
11	AB	4480	DG	P-O3'-C3'	-13.60	103.39	119.70
11	AB	4622	DG	P-O3'-C3'	-13.60	103.39	119.70
11	AB	4925	DG	P-O3'-C3'	-13.60	103.39	119.70
11	AB	5019	DG	P-O3'-C3'	-13.60	103.39	119.70
11	AB	5884	DG	P-O3'-C3'	-13.60	103.39	119.70
11	AB	6734	DG	P-O3'-C3'	-13.60	103.38	119.70
11	AB	6831	DG	P-O3'-C3'	-13.60	103.39	119.70
17	B4	11	DG	P-O3'-C3'	-13.60	103.38	119.70
38	D2	14	DG	P-O3'-C3'	-13.60	103.38	119.70
52	E6	33	DG	P-O3'-C3'	-13.60	103.39	119.70
54	E8	28	DG	P-O3'-C3'	-13.60	103.38	119.70
190	R9	45	DG	P-O3'-C3'	-13.60	103.38	119.70
70	G1	6	DG	P-O3'-C3'	-13.60	103.39	119.70
96	I6	3	DG	P-O3'-C3'	-13.60	103.39	119.70
126	L2	45	DG	P-O3'-C3'	-13.60	103.39	119.70
145	MD	24	DG	P-O3'-C3'	-13.60	103.39	119.70
149	N6	50	DG	P-O3'-C3'	-13.60	103.39	119.70
179	Q7	22	DG	P-O3'-C3'	-13.60	103.39	119.70
11	AB	1459	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	3606	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	4998	DG	P-O3'-C3'	-13.59	103.39	119.70
211	TD	39	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	457	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	931	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	1038	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	2556	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	2588	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	3491	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	4110	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	4297	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	4665	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	4809	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	5253	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	5301	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	5824	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	6905	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	5024	DG	P-O3'-C3'	-13.59	103.39	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5062	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	5521	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	6090	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	6189	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	6386	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	6630	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	7084	DG	P-O3'-C3'	-13.59	103.39	119.70
14	B1	33	DG	P-O3'-C3'	-13.59	103.39	119.70
27	C2	6	DG	P-O3'-C3'	-13.59	103.39	119.70
30	C6	17	DG	P-O3'-C3'	-13.59	103.39	119.70
31	C7	30	DG	P-O3'-C3'	-13.59	103.39	119.70
82	H2	38	DG	P-O3'-C3'	-13.59	103.39	119.70
185	R2	11	DG	P-O3'-C3'	-13.59	103.39	119.70
32	C8	39	DG	P-O3'-C3'	-13.59	103.39	119.70
43	D8	9	DG	P-O3'-C3'	-13.59	103.39	119.70
82	H2	5	DG	P-O3'-C3'	-13.59	103.39	119.70
88	H9	14	DG	P-O3'-C3'	-13.59	103.39	119.70
132	L9	12	DG	P-O3'-C3'	-13.59	103.39	119.70
173	PA	36	DG	P-O3'-C3'	-13.59	103.39	119.70
194	S2	29	DG	P-O3'-C3'	-13.59	103.39	119.70
211	TD	41	DG	P-O3'-C3'	-13.59	103.39	119.70
223	V5	37	DG	P-O3'-C3'	-13.59	103.39	119.70
6	A6	9	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	781	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	2373	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	4608	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	1040	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	2018	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	4850	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	5070	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	6730	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	6997	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	7214	DG	P-O3'-C3'	-13.59	103.39	119.70
24	BC	15	DG	P-O3'-C3'	-13.59	103.39	119.70
40	D5	24	DG	P-O3'-C3'	-13.59	103.39	119.70
57	EC	14	DG	P-O3'-C3'	-13.59	103.39	119.70
61	F3	6	DG	P-O3'-C3'	-13.59	103.39	119.70
68	FC	17	DG	P-O3'-C3'	-13.59	103.39	119.70
115	K2	17	DG	P-O3'-C3'	-13.59	103.39	119.70
147	N3	12	DG	P-O3'-C3'	-13.59	103.39	119.70
227	VA	7	DG	P-O3'-C3'	-13.59	103.39	119.70
82	H2	21	DG	P-O3'-C3'	-13.59	103.39	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
166	P2	11	DG	P-O3'-C3'	-13.59	103.39	119.70
175	PD	17	DG	P-O3'-C3'	-13.59	103.39	119.70
209	TA	12	DG	P-O3'-C3'	-13.59	103.39	119.70
209	TA	33	DG	P-O3'-C3'	-13.59	103.39	119.70
214	U5	21	DG	P-O3'-C3'	-13.59	103.39	119.70
227	VA	20	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	833	DG	P-O3'-C3'	-13.59	103.39	119.70
69	FD	37	DG	P-O3'-C3'	-13.59	103.39	119.70
117	K5	27	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	1573	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	1611	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	1819	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	2877	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	1979	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	2081	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	3621	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	5242	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	5798	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	6004	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	6030	DG	P-O3'-C3'	-13.59	103.39	119.70
54	E8	26	DG	P-O3'-C3'	-13.59	103.39	119.70
62	F5	18	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	2263	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	3369	DG	P-O3'-C3'	-13.59	103.40	119.70
53	E7	16	DG	P-O3'-C3'	-13.59	103.40	119.70
77	G9	10	DG	P-O3'-C3'	-13.59	103.39	119.70
92	I1	17	DG	P-O3'-C3'	-13.59	103.39	119.70
93	I2	25	DG	P-O3'-C3'	-13.59	103.39	119.70
108	J7	55	DG	P-O3'-C3'	-13.59	103.39	119.70
115	K2	15	DG	P-O3'-C3'	-13.59	103.40	119.70
172	P9	20	DG	P-O3'-C3'	-13.59	103.39	119.70
238	X9	49	DG	P-O3'-C3'	-13.59	103.39	119.70
11	AB	4525	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	4859	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	5017	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	5772	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	6505	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	7217	DG	P-O3'-C3'	-13.59	103.40	119.70
15	B2	20	DG	P-O3'-C3'	-13.59	103.40	119.70
44	D9	27	DG	P-O3'-C3'	-13.59	103.40	119.70
50	E3	4	DG	P-O3'-C3'	-13.59	103.40	119.70
79	GC	12	DG	P-O3'-C3'	-13.59	103.40	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
82	H2	47	DG	P-O3'-C3'	-13.59	103.39	119.70
112	JC	2	DG	P-O3'-C3'	-13.59	103.40	119.70
214	U5	8	DG	P-O3'-C3'	-13.59	103.40	119.70
127	L3	4	DG	P-O3'-C3'	-13.59	103.40	119.70
133	LA	6	DG	P-O3'-C3'	-13.59	103.40	119.70
145	MD	38	DG	P-O3'-C3'	-13.59	103.40	119.70
147	N3	5	DG	P-O3'-C3'	-13.59	103.40	119.70
160	O7	13	DG	P-O3'-C3'	-13.59	103.40	119.70
169	P6	5	DG	P-O3'-C3'	-13.59	103.40	119.70
206	T7	12	DG	P-O3'-C3'	-13.59	103.40	119.70
11	AB	1267	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	4667	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	5001	DG	P-O3'-C3'	-13.58	103.40	119.70
114	K1	16	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	126	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	328	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	859	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	1092	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	427	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	817	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	928	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	1501	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	3469	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	7050	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	2171	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	2296	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	2345	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	2550	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	3445	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	4757	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	5277	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	5430	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	6057	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	6064	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	6918	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	6933	DG	P-O3'-C3'	-13.58	103.40	119.70
22	B9	41	DG	P-O3'-C3'	-13.58	103.40	119.70
106	J5	27	DG	P-O3'-C3'	-13.58	103.40	119.70
91	HD	17	DG	P-O3'-C3'	-13.58	103.40	119.70
94	I3	47	DG	P-O3'-C3'	-13.58	103.40	119.70
109	J8	53	DG	P-O3'-C3'	-13.58	103.40	119.70
125	L1	25	DG	P-O3'-C3'	-13.58	103.40	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
139	M6	21	DG	P-O3'-C3'	-13.58	103.40	119.70
194	S2	15	DG	P-O3'-C3'	-13.58	103.40	119.70
199	S9	20	DG	P-O3'-C3'	-13.58	103.40	119.70
200	SA	26	DG	P-O3'-C3'	-13.58	103.40	119.70
204	T3	5	DG	P-O3'-C3'	-13.58	103.40	119.70
206	T7	2	DG	P-O3'-C3'	-13.58	103.40	119.70
225	V8	20	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	20	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	294	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	2326	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	4107	DG	P-O3'-C3'	-13.58	103.40	119.70
220	UD	9	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	1165	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	1541	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	3316	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	4202	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	5084	DG	P-O3'-C3'	-13.58	103.40	119.70
32	C8	25	DG	P-O3'-C3'	-13.58	103.40	119.70
107	J6	22	DG	P-O3'-C3'	-13.58	103.40	119.70
11	AB	4038	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	4702	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	4711	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	6211	DG	P-O3'-C3'	-13.58	103.40	119.70
37	D1	36	DG	P-O3'-C3'	-13.58	103.41	119.70
58	ED	7	DG	P-O3'-C3'	-13.58	103.41	119.70
76	G8	7	DG	P-O3'-C3'	-13.58	103.40	119.70
93	I2	45	DG	P-O3'-C3'	-13.58	103.40	119.70
122	KA	5	DG	P-O3'-C3'	-13.58	103.40	119.70
150	N7	22	DG	P-O3'-C3'	-13.58	103.40	119.70
156	O2	29	DG	P-O3'-C3'	-13.58	103.40	119.70
192	RC	33	DG	P-O3'-C3'	-13.58	103.40	119.70
196	S5	13	DG	P-O3'-C3'	-13.58	103.41	119.70
232	W7	19	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	1053	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	1347	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	3022	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	1706	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	1770	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	2311	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	3414	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	3775	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	4074	DG	P-O3'-C3'	-13.58	103.41	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4141	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	5260	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	6024	DG	P-O3'-C3'	-13.58	103.41	119.70
58	ED	21	DG	P-O3'-C3'	-13.58	103.41	119.70
72	G3	14	DG	P-O3'-C3'	-13.58	103.41	119.70
88	H9	11	DG	P-O3'-C3'	-13.58	103.41	119.70
115	K2	20	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	4472	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	5681	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	7072	DG	P-O3'-C3'	-13.58	103.41	119.70
110	J9	20	DG	P-O3'-C3'	-13.58	103.41	119.70
147	N3	20	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	7160	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	7241	DG	P-O3'-C3'	-13.58	103.41	119.70
74	G6	29	DG	P-O3'-C3'	-13.58	103.41	119.70
90	HC	8	DG	P-O3'-C3'	-13.58	103.41	119.70
104	J2	26	DG	P-O3'-C3'	-13.58	103.41	119.70
109	J8	12	DG	P-O3'-C3'	-13.58	103.41	119.70
139	M6	4	DG	P-O3'-C3'	-13.58	103.41	119.70
140	M7	16	DG	P-O3'-C3'	-13.58	103.41	119.70
167	P3	29	DG	P-O3'-C3'	-13.58	103.41	119.70
206	T7	9	DG	P-O3'-C3'	-13.58	103.41	119.70
209	TA	16	DG	P-O3'-C3'	-13.58	103.41	119.70
217	U9	11	DG	P-O3'-C3'	-13.58	103.41	119.70
217	U9	21	DG	P-O3'-C3'	-13.58	103.41	119.70
11	AB	90	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	558	DG	P-O3'-C3'	-13.57	103.41	119.70
119	K7	39	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	321	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	1284	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	2169	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	3424	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	3568	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	4105	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	4303	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	4493	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	4625	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	5010	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	5050	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	5058	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	5907	DG	P-O3'-C3'	-13.57	103.41	119.70
85	H6	21	DG	P-O3'-C3'	-13.57	103.41	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
103	J1	24	DG	P-O3'-C3'	-13.57	103.41	119.70
32	C8	8	DG	P-O3'-C3'	-13.57	103.41	119.70
46	DC	8	DG	P-O3'-C3'	-13.57	103.41	119.70
51	E5	25	DG	P-O3'-C3'	-13.57	103.41	119.70
99	I9	21	DG	P-O3'-C3'	-13.57	103.41	119.70
99	I9	25	DG	P-O3'-C3'	-13.57	103.41	119.70
118	K6	9	DG	P-O3'-C3'	-13.57	103.41	119.70
120	K8	6	DG	P-O3'-C3'	-13.57	103.41	119.70
122	KA	13	DG	P-O3'-C3'	-13.57	103.41	119.70
128	L5	10	DG	P-O3'-C3'	-13.57	103.41	119.70
134	LC	16	DG	P-O3'-C3'	-13.57	103.41	119.70
5	A5	23	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	883	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	1146	DG	P-O3'-C3'	-13.57	103.41	119.70
124	KD	6	DG	P-O3'-C3'	-13.57	103.41	119.70
145	MD	13	DG	P-O3'-C3'	-13.57	103.41	119.70
6	A6	28	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	590	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	4846	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	1429	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	1613	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	1898	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	2184	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	2668	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	4088	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	7145	DG	P-O3'-C3'	-13.57	103.41	119.70
22	B9	4	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	1667	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	2654	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	3442	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	3697	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	3953	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	4145	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	4515	DG	P-O3'-C3'	-13.57	103.41	119.70
53	E7	11	DG	P-O3'-C3'	-13.57	103.41	119.70
199	S9	10	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	4510	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	4672	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	4943	DG	P-O3'-C3'	-13.57	103.41	119.70
11	AB	4971	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	5045	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	5215	DG	P-O3'-C3'	-13.57	103.42	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5594	DG	P-O3'-C3'	-13.57	103.42	119.70
13	AD	43	DG	P-O3'-C3'	-13.57	103.42	119.70
41	D6	19	DG	P-O3'-C3'	-13.57	103.42	119.70
50	E3	2	DG	P-O3'-C3'	-13.57	103.42	119.70
61	F3	15	DG	P-O3'-C3'	-13.57	103.42	119.70
63	F6	9	DG	P-O3'-C3'	-13.57	103.41	119.70
63	F6	11	DG	P-O3'-C3'	-13.57	103.42	119.70
65	F8	11	DG	P-O3'-C3'	-13.57	103.42	119.70
106	J5	30	DG	P-O3'-C3'	-13.57	103.42	119.70
113	JD	30	DG	P-O3'-C3'	-13.57	103.42	119.70
136	M2	18	DG	P-O3'-C3'	-13.57	103.41	119.70
143	MA	45	DG	P-O3'-C3'	-13.57	103.42	119.70
186	R3	19	DG	P-O3'-C3'	-13.57	103.41	119.70
151	N8	15	DG	P-O3'-C3'	-13.57	103.42	119.70
180	Q8	10	DG	P-O3'-C3'	-13.57	103.42	119.70
186	R3	11	DG	P-O3'-C3'	-13.57	103.42	119.70
223	V5	10	DG	P-O3'-C3'	-13.57	103.42	119.70
238	X9	53	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	768	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	1095	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	1395	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	2538	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	2910	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	3729	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	3917	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	4654	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	3555	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	4532	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	7012	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	4920	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	5866	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	6042	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	6337	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	7190	DG	P-O3'-C3'	-13.57	103.42	119.70
152	N9	26	DG	P-O3'-C3'	-13.57	103.42	119.70
46	DC	16	DG	P-O3'-C3'	-13.57	103.42	119.70
94	I3	37	DG	P-O3'-C3'	-13.57	103.42	119.70
99	I9	17	DG	P-O3'-C3'	-13.57	103.42	119.70
183	QC	21	DG	P-O3'-C3'	-13.57	103.42	119.70
228	VC	29	DG	P-O3'-C3'	-13.57	103.42	119.70
11	AB	766	DG	P-O3'-C3'	-13.56	103.42	119.70
11	AB	1131	DG	P-O3'-C3'	-13.56	103.42	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
60	F2	12	DG	P-O3'-C3'	-13.56	103.42	119.70
11	AB	3168	DG	P-O3'-C3'	-13.56	103.42	119.70
11	AB	4928	DG	P-O3'-C3'	-13.56	103.42	119.70
11	AB	5113	DG	P-O3'-C3'	-13.56	103.42	119.70
11	AB	6298	DG	P-O3'-C3'	-13.56	103.42	119.70
11	AB	6693	DG	P-O3'-C3'	-13.56	103.42	119.70
11	AB	7208	DG	P-O3'-C3'	-13.56	103.42	119.70
143	MA	43	DG	P-O3'-C3'	-13.56	103.42	119.70
12	AC	18	DG	P-O3'-C3'	-13.56	103.42	119.70
23	BA	17	DG	P-O3'-C3'	-13.56	103.42	119.70
65	F8	3	DG	P-O3'-C3'	-13.56	103.42	119.70
140	M7	13	DG	P-O3'-C3'	-13.56	103.42	119.70
201	SC	5	DG	P-O3'-C3'	-13.56	103.42	119.70
45	DA	14	DG	P-O3'-C3'	-13.56	103.42	119.70
60	F2	5	DG	P-O3'-C3'	-13.56	103.42	119.70
75	G7	26	DG	P-O3'-C3'	-13.56	103.42	119.70
97	I7	31	DG	P-O3'-C3'	-13.56	103.42	119.70
117	K5	40	DG	P-O3'-C3'	-13.56	103.42	119.70
154	NC	26	DG	P-O3'-C3'	-13.56	103.42	119.70
160	O7	1	DG	P-O3'-C3'	-13.56	103.42	119.70
169	P6	10	DG	P-O3'-C3'	-13.56	103.42	119.70
185	R2	15	DG	P-O3'-C3'	-13.56	103.42	119.70
205	T5	2	DG	P-O3'-C3'	-13.56	103.42	119.70
236	X5	5	DG	P-O3'-C3'	-13.56	103.42	119.70
238	X9	4	DG	P-O3'-C3'	-13.56	103.42	119.70
11	AB	1848	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	1855	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	4489	DG	P-O3'-C3'	-13.56	103.42	119.70
11	AB	4574	DG	P-O3'-C3'	-13.56	103.42	119.70
11	AB	4629	DG	P-O3'-C3'	-13.56	103.42	119.70
47	DD	29	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	852	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	886	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	1011	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	4139	DG	P-O3'-C3'	-13.56	103.43	119.70
38	D2	11	DG	P-O3'-C3'	-13.56	103.43	119.70
209	TA	27	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	4538	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	5946	DG	P-O3'-C3'	-13.56	103.43	119.70
101	IC	19	DG	P-O3'-C3'	-13.56	103.43	119.70
112	JC	12	DG	P-O3'-C3'	-13.56	103.43	119.70
119	K7	27	DG	P-O3'-C3'	-13.56	103.43	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
144	MC	6	DG	P-O3'-C3'	-13.56	103.43	119.70
217	U9	7	DG	P-O3'-C3'	-13.56	103.43	119.70
231	W5	13	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	44	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	726	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	1406	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	4127	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	6492	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	6646	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	7235	DG	P-O3'-C3'	-13.56	103.43	119.70
30	C6	25	DG	P-O3'-C3'	-13.56	103.43	119.70
54	E8	5	DG	P-O3'-C3'	-13.56	103.43	119.70
60	F2	22	DG	P-O3'-C3'	-13.56	103.43	119.70
66	F9	7	DG	P-O3'-C3'	-13.56	103.43	119.70
68	FC	5	DG	P-O3'-C3'	-13.56	103.43	119.70
170	P7	12	DG	P-O3'-C3'	-13.56	103.43	119.70
174	PC	26	DG	P-O3'-C3'	-13.56	103.43	119.70
214	U5	17	DG	P-O3'-C3'	-13.56	103.43	119.70
220	UD	19	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	1026	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	1922	DG	P-O3'-C3'	-13.55	103.43	119.70
11	AB	2435	DG	P-O3'-C3'	-13.55	103.43	119.70
11	AB	3142	DG	P-O3'-C3'	-13.55	103.43	119.70
11	AB	4466	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	4951	DG	P-O3'-C3'	-13.56	103.43	119.70
11	AB	5641	DG	P-O3'-C3'	-13.56	103.43	119.70
35	CC	31	DG	P-O3'-C3'	-13.56	103.43	119.70
109	J8	42	DG	P-O3'-C3'	-13.55	103.43	119.70
204	T3	1	DG	P-O3'-C3'	-13.55	103.43	119.70
223	V5	22	DG	P-O3'-C3'	-13.55	103.43	119.70
227	VA	22	DG	P-O3'-C3'	-13.55	103.43	119.70
11	AB	943	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	3105	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	5704	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	6168	DG	P-O3'-C3'	-13.55	103.44	119.70
32	C8	47	DG	P-O3'-C3'	-13.55	103.43	119.70
41	D6	5	DG	P-O3'-C3'	-13.55	103.44	119.70
204	T3	20	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	4865	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	5695	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	6130	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	4689	DG	P-O3'-C3'	-13.55	103.44	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6964	DG	P-O3'-C3'	-13.55	103.44	119.70
37	D1	31	DG	P-O3'-C3'	-13.55	103.44	119.70
233	W8	18	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	901	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	2178	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	2729	DG	P-O3'-C3'	-13.55	103.44	119.70
186	R3	6	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	1703	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	3214	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	3871	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	6050	DG	P-O3'-C3'	-13.55	103.44	119.70
43	D8	25	DG	P-O3'-C3'	-13.55	103.44	119.70
56	EA	20	DG	P-O3'-C3'	-13.55	103.44	119.70
90	HC	15	DG	P-O3'-C3'	-13.55	103.44	119.70
115	K2	9	DG	P-O3'-C3'	-13.55	103.44	119.70
159	O6	5	DG	P-O3'-C3'	-13.55	103.44	119.70
188	R7	29	DG	P-O3'-C3'	-13.55	103.44	119.70
195	S3	5	DG	P-O3'-C3'	-13.55	103.44	119.70
195	S3	7	DG	P-O3'-C3'	-13.55	103.44	119.70
2	A2	11	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	4131	DG	P-O3'-C3'	-13.55	103.44	119.70
11	AB	14	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	499	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	6154	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	6400	DG	P-O3'-C3'	-13.54	103.45	119.70
49	E2	4	DG	P-O3'-C3'	-13.54	103.45	119.70
55	E9	22	DG	P-O3'-C3'	-13.54	103.45	119.70
86	H7	21	DG	P-O3'-C3'	-13.54	103.45	119.70
99	I9	10	DG	P-O3'-C3'	-13.54	103.45	119.70
163	OA	2	DG	P-O3'-C3'	-13.54	103.45	119.70
165	OD	55	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	1182	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	1559	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	5534	DG	P-O3'-C3'	-13.54	103.45	119.70
52	E6	16	DG	P-O3'-C3'	-13.54	103.45	119.70
164	OC	14	DG	P-O3'-C3'	-13.54	103.45	119.70
222	V3	10	DG	P-O3'-C3'	-13.54	103.45	119.70
2	A2	3	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	862	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	1282	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	1883	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	2674	DG	P-O3'-C3'	-13.54	103.45	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5323	DG	P-O3'-C3'	-13.54	103.45	119.70
27	C2	20	DG	P-O3'-C3'	-13.54	103.45	119.70
88	H9	27	DG	P-O3'-C3'	-13.54	103.45	119.70
109	J8	40	DG	P-O3'-C3'	-13.54	103.45	119.70
11	AB	6406	DG	P-O3'-C3'	-13.54	103.45	119.70
169	P6	18	DG	P-O3'-C3'	-13.54	103.46	119.70
10	AA	17	DG	P-O3'-C3'	-13.54	103.46	119.70
11	AB	6413	DG	P-O3'-C3'	-13.54	103.46	119.70
18	B5	3	DG	P-O3'-C3'	-13.54	103.46	119.70
147	N3	25	DG	P-O3'-C3'	-13.54	103.46	119.70
164	OC	11	DG	P-O3'-C3'	-13.54	103.46	119.70
191	RA	9	DG	P-O3'-C3'	-13.54	103.46	119.70
11	AB	3293	DG	P-O3'-C3'	-13.53	103.46	119.70
11	AB	4083	DG	P-O3'-C3'	-13.53	103.46	119.70
187	R5	10	DG	P-O3'-C3'	-13.53	103.46	119.70
11	AB	5497	DG	P-O3'-C3'	-13.53	103.46	119.70
11	AB	6907	DG	P-O3'-C3'	-13.53	103.46	119.70
123	KC	19	DG	P-O3'-C3'	-13.53	103.46	119.70
11	AB	2713	DG	P-O3'-C3'	-13.53	103.47	119.70
11	AB	4590	DG	P-O3'-C3'	-13.53	103.47	119.70
151	N8	20	DG	P-O3'-C3'	-13.53	103.47	119.70
11	AB	4118	DG	P-O3'-C3'	-13.53	103.47	119.70
42	D7	19	DG	P-O3'-C3'	-13.53	103.47	119.70
108	J7	20	DG	P-O3'-C3'	-13.53	103.47	119.70
11	AB	4854	DG	P-O3'-C3'	-13.52	103.47	119.70
11	AB	6218	DG	P-O3'-C3'	-13.52	103.47	119.70
139	M6	19	DG	P-O3'-C3'	-13.52	103.47	119.70
11	AB	856	DG	P-O3'-C3'	-13.52	103.47	119.70
11	AB	5134	DG	P-O3'-C3'	-13.52	103.47	119.70
11	AB	1669	DG	P-O3'-C3'	-13.52	103.48	119.70
11	AB	7177	DG	P-O3'-C3'	-13.52	103.48	119.70
18	B5	8	DG	P-O3'-C3'	-13.51	103.49	119.70
94	I3	20	DG	P-O3'-C3'	-13.51	103.49	119.70
11	AB	4241	DG	P-O3'-C3'	-13.45	103.56	119.70
11	AB	390	DG	P-O3'-C3'	-13.44	103.57	119.70
11	AB	526	DG	P-O3'-C3'	-13.40	103.61	119.70
11	AB	6223	DG	P-O3'-C3'	-13.37	103.66	119.70
11	AB	661	DG	P-O3'-C3'	-13.34	103.69	119.70
11	AB	5860	DG	P-O3'-C3'	-13.31	103.73	119.70
11	AB	4184	DG	P-O3'-C3'	-13.31	103.73	119.70
11	AB	5119	DG	P-O3'-C3'	-13.19	103.88	119.70
11	AB	1971	DG	O3'-P-O5'	-11.05	83.01	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
143	MA	14	DG	O3'-P-O5'	-11.04	83.02	104.00
11	AB	4732	DG	O3'-P-O5'	-11.04	83.03	104.00
11	AB	4951	DG	O3'-P-O5'	-11.04	83.03	104.00
11	AB	5070	DG	O3'-P-O5'	-11.04	83.03	104.00
11	AB	5641	DG	O3'-P-O5'	-11.04	83.03	104.00
11	AB	1406	DG	O3'-P-O5'	-11.03	83.04	104.00
11	AB	2345	DG	O3'-P-O5'	-11.03	83.04	104.00
55	E9	18	DG	O3'-P-O5'	-11.03	83.04	104.00
93	I2	30	DG	O3'-P-O5'	-11.03	83.04	104.00
203	T2	10	DG	O3'-P-O5'	-11.03	83.04	104.00
11	AB	2339	DG	O3'-P-O5'	-11.03	83.05	104.00
11	AB	3514	DG	O3'-P-O5'	-11.03	83.05	104.00
11	AB	5215	DG	O3'-P-O5'	-11.03	83.05	104.00
11	AB	6474	DG	O3'-P-O5'	-11.03	83.05	104.00
188	R7	29	DG	O3'-P-O5'	-11.03	83.04	104.00
37	D1	17	DG	O3'-P-O5'	-11.03	83.05	104.00
11	AB	781	DG	O3'-P-O5'	-11.03	83.05	104.00
11	AB	928	DG	O3'-P-O5'	-11.03	83.05	104.00
11	AB	1077	DG	O3'-P-O5'	-11.03	83.05	104.00
11	AB	3473	DG	O3'-P-O5'	-11.03	83.05	104.00
11	AB	4141	DG	O3'-P-O5'	-11.03	83.05	104.00
106	J5	27	DG	O3'-P-O5'	-11.03	83.05	104.00
61	F3	6	DG	O3'-P-O5'	-11.03	83.05	104.00
69	FD	46	DG	O3'-P-O5'	-11.03	83.05	104.00
70	G1	6	DG	O3'-P-O5'	-11.03	83.05	104.00
166	P2	28	DG	O3'-P-O5'	-11.03	83.05	104.00
196	S5	13	DG	O3'-P-O5'	-11.03	83.05	104.00
211	TD	39	DG	O3'-P-O5'	-11.03	83.05	104.00
233	W8	18	DG	O3'-P-O5'	-11.03	83.05	104.00
11	AB	676	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	931	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	1535	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	5884	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	7217	DG	O3'-P-O5'	-11.02	83.05	104.00
63	F6	11	DG	O3'-P-O5'	-11.02	83.05	104.00
85	H6	17	DG	O3'-P-O5'	-11.02	83.05	104.00
119	K7	39	DG	O3'-P-O5'	-11.02	83.06	104.00
185	R2	15	DG	O3'-P-O5'	-11.02	83.05	104.00
11	AB	228	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	1981	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	4625	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	5301	DG	O3'-P-O5'	-11.02	83.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5782	DG	O3'-P-O5'	-11.02	83.06	104.00
32	C8	4	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	6349	DG	O3'-P-O5'	-11.02	83.06	104.00
92	I1	23	DG	O3'-P-O5'	-11.02	83.06	104.00
110	J9	15	DG	O3'-P-O5'	-11.02	83.06	104.00
204	T3	20	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	1161	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	1459	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	2263	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	3461	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	3953	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	4538	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	4996	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	7231	DG	O3'-P-O5'	-11.02	83.06	104.00
46	DC	20	DG	O3'-P-O5'	-11.02	83.06	104.00
57	EC	14	DG	O3'-P-O5'	-11.02	83.06	104.00
109	J8	12	DG	O3'-P-O5'	-11.02	83.06	104.00
156	O2	11	DG	O3'-P-O5'	-11.02	83.06	104.00
179	Q7	22	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	3442	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	3986	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	3998	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	4004	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	4928	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	4998	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	5749	DG	O3'-P-O5'	-11.02	83.06	104.00
11	AB	6050	DG	O3'-P-O5'	-11.02	83.06	104.00
90	HC	8	DG	O3'-P-O5'	-11.02	83.06	104.00
175	PD	5	DG	O3'-P-O5'	-11.02	83.06	104.00
223	V5	37	DG	O3'-P-O5'	-11.02	83.06	104.00
91	HD	17	DG	O3'-P-O5'	-11.02	83.07	104.00
143	MA	30	DG	O3'-P-O5'	-11.02	83.07	104.00
145	MD	13	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	204	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	415	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	999	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	3449	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	3568	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	3775	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	4133	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	4608	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	6505	DG	O3'-P-O5'	-11.02	83.07	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7208	DG	O3'-P-O5'	-11.02	83.07	104.00
24	BC	8	DG	O3'-P-O5'	-11.02	83.07	104.00
32	C8	28	DG	O3'-P-O5'	-11.02	83.07	104.00
32	C8	39	DG	O3'-P-O5'	-11.02	83.07	104.00
45	DA	14	DG	O3'-P-O5'	-11.02	83.07	104.00
94	I3	20	DG	O3'-P-O5'	-11.02	83.07	104.00
101	IC	19	DG	O3'-P-O5'	-11.02	83.07	104.00
110	J9	20	DG	O3'-P-O5'	-11.02	83.07	104.00
164	OC	11	DG	O3'-P-O5'	-11.02	83.07	104.00
166	P2	11	DG	O3'-P-O5'	-11.02	83.07	104.00
104	J2	3	DG	O3'-P-O5'	-11.02	83.07	104.00
191	RA	9	DG	O3'-P-O5'	-11.02	83.07	104.00
201	SC	5	DG	O3'-P-O5'	-11.02	83.07	104.00
209	TA	16	DG	O3'-P-O5'	-11.02	83.07	104.00
214	U5	17	DG	O3'-P-O5'	-11.02	83.07	104.00
11	AB	321	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	738	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	1026	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	1060	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	1855	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	2184	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	2524	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	2668	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	3293	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	3316	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	4249	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	4622	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	3456	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	3697	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4074	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4583	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4850	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	5058	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	5864	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	6090	DG	O3'-P-O5'	-11.01	83.07	104.00
48	E1	12	DG	O3'-P-O5'	-11.01	83.07	104.00
83	H3	37	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	5521	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	6730	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	6964	DG	O3'-P-O5'	-11.01	83.08	104.00
13	AD	43	DG	O3'-P-O5'	-11.01	83.08	104.00
113	JD	12	DG	O3'-P-O5'	-11.01	83.07	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
117	K5	3	DG	O3'-P-O5'	-11.01	83.07	104.00
14	B1	33	DG	O3'-P-O5'	-11.01	83.08	104.00
22	B9	4	DG	O3'-P-O5'	-11.01	83.08	104.00
27	C2	20	DG	O3'-P-O5'	-11.01	83.08	104.00
32	C8	25	DG	O3'-P-O5'	-11.01	83.08	104.00
52	E6	30	DG	O3'-P-O5'	-11.01	83.08	104.00
65	F8	11	DG	O3'-P-O5'	-11.01	83.08	104.00
169	P6	5	DG	O3'-P-O5'	-11.01	83.07	104.00
109	J8	2	DG	O3'-P-O5'	-11.01	83.08	104.00
174	PC	23	DG	O3'-P-O5'	-11.01	83.08	104.00
205	T5	2	DG	O3'-P-O5'	-11.01	83.08	104.00
227	VA	7	DG	O3'-P-O5'	-11.01	83.08	104.00
231	W5	13	DG	O3'-P-O5'	-11.01	83.07	104.00
11	AB	856	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	2996	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4428	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	993	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	1126	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	3168	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	3566	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4076	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	5113	DG	O3'-P-O5'	-11.01	83.08	104.00
12	AC	18	DG	O3'-P-O5'	-11.01	83.08	104.00
124	KD	6	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	3806	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	3811	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4131	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4466	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4925	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4865	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4959	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	5468	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	5695	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	6298	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	6752	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	6997	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	7160	DG	O3'-P-O5'	-11.01	83.08	104.00
15	B2	20	DG	O3'-P-O5'	-11.01	83.08	104.00
30	C6	25	DG	O3'-P-O5'	-11.01	83.08	104.00
37	D1	36	DG	O3'-P-O5'	-11.01	83.08	104.00
54	E8	28	DG	O3'-P-O5'	-11.01	83.08	104.00
93	I2	45	DG	O3'-P-O5'	-11.01	83.08	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
99	I9	25	DG	O3'-P-O5'	-11.01	83.08	104.00
114	K1	16	DG	O3'-P-O5'	-11.01	83.08	104.00
143	MA	45	DG	O3'-P-O5'	-11.01	83.08	104.00
149	N6	50	DG	O3'-P-O5'	-11.01	83.08	104.00
160	O7	1	DG	O3'-P-O5'	-11.01	83.08	104.00
169	P6	10	DG	O3'-P-O5'	-11.01	83.08	104.00
186	R3	19	DG	O3'-P-O5'	-11.01	83.08	104.00
217	U9	7	DG	O3'-P-O5'	-11.01	83.08	104.00
227	VA	22	DG	O3'-P-O5'	-11.01	83.08	104.00
2	A2	11	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	913	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	1040	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	1429	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	1669	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	2081	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	2918	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	3214	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4107	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	4110	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	4139	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	4493	DG	O3'-P-O5'	-11.01	83.08	104.00
11	AB	4667	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	5636	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	6905	DG	O3'-P-O5'	-11.01	83.09	104.00
41	D6	3	DG	O3'-P-O5'	-11.01	83.09	104.00
74	G6	35	DG	O3'-P-O5'	-11.01	83.09	104.00
113	JD	30	DG	O3'-P-O5'	-11.01	83.08	104.00
143	MA	11	DG	O3'-P-O5'	-11.01	83.08	104.00
194	S2	29	DG	O3'-P-O5'	-11.01	83.09	104.00
200	SA	26	DG	O3'-P-O5'	-11.01	83.08	104.00
220	UD	9	DG	O3'-P-O5'	-11.01	83.08	104.00
228	VC	12	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	558	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	766	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	862	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	1011	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	1131	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	1521	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	2018	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	2296	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	2851	DG	O3'-P-O5'	-11.01	83.09	104.00
109	J8	42	DG	O3'-P-O5'	-11.01	83.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4154	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	4188	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	4574	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	4757	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	4842	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	6130	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	6386	DG	O3'-P-O5'	-11.01	83.09	104.00
47	DD	41	DG	O3'-P-O5'	-11.01	83.09	104.00
58	ED	29	DG	O3'-P-O5'	-11.01	83.09	104.00
61	F3	15	DG	O3'-P-O5'	-11.01	83.09	104.00
74	G6	29	DG	O3'-P-O5'	-11.01	83.09	104.00
82	H2	38	DG	O3'-P-O5'	-11.01	83.09	104.00
98	I8	25	DG	O3'-P-O5'	-11.01	83.09	104.00
103	J1	13	DG	O3'-P-O5'	-11.01	83.09	104.00
103	J1	24	DG	O3'-P-O5'	-11.01	83.09	104.00
108	J7	20	DG	O3'-P-O5'	-11.01	83.09	104.00
109	J8	34	DG	O3'-P-O5'	-11.01	83.09	104.00
115	K2	15	DG	O3'-P-O5'	-11.01	83.09	104.00
115	K2	17	DG	O3'-P-O5'	-11.01	83.09	104.00
122	KA	5	DG	O3'-P-O5'	-11.01	83.09	104.00
126	L2	45	DG	O3'-P-O5'	-11.01	83.09	104.00
147	N3	20	DG	O3'-P-O5'	-11.01	83.09	104.00
127	L3	4	DG	O3'-P-O5'	-11.01	83.09	104.00
149	N6	2	DG	O3'-P-O5'	-11.01	83.09	104.00
150	N7	22	DG	O3'-P-O5'	-11.01	83.09	104.00
166	P2	9	DG	O3'-P-O5'	-11.01	83.09	104.00
181	Q9	16	DG	O3'-P-O5'	-11.01	83.09	104.00
188	R7	14	DG	O3'-P-O5'	-11.01	83.09	104.00
195	S3	5	DG	O3'-P-O5'	-11.01	83.09	104.00
199	S9	20	DG	O3'-P-O5'	-11.01	83.09	104.00
206	T7	2	DG	O3'-P-O5'	-11.01	83.09	104.00
232	W7	19	DG	O3'-P-O5'	-11.01	83.09	104.00
238	X9	4	DG	O3'-P-O5'	-11.01	83.09	104.00
11	AB	833	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	2713	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	7241	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	642	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	1165	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	2035	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	2326	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	4083	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	4145	DG	O3'-P-O5'	-11.00	83.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4665	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	5242	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	6211	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	6693	DG	O3'-P-O5'	-11.00	83.09	104.00
154	NC	30	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	4590	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	4600	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	4971	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	5238	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	5253	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	5323	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	5391	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	5548	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	7214	DG	O3'-P-O5'	-11.00	83.10	104.00
51	E5	11	DG	O3'-P-O5'	-11.00	83.09	104.00
52	E6	16	DG	O3'-P-O5'	-11.00	83.10	104.00
77	G9	10	DG	O3'-P-O5'	-11.00	83.09	104.00
129	L6	23	DG	O3'-P-O5'	-11.00	83.09	104.00
139	M6	4	DG	O3'-P-O5'	-11.00	83.09	104.00
84	H5	20	DG	O3'-P-O5'	-11.00	83.10	104.00
94	I3	47	DG	O3'-P-O5'	-11.00	83.10	104.00
99	I9	10	DG	O3'-P-O5'	-11.00	83.10	104.00
101	IC	5	DG	O3'-P-O5'	-11.00	83.09	104.00
110	J9	18	DG	O3'-P-O5'	-11.00	83.09	104.00
109	J8	53	DG	O3'-P-O5'	-11.00	83.09	104.00
112	JC	2	DG	O3'-P-O5'	-11.00	83.09	104.00
115	K2	9	DG	O3'-P-O5'	-11.00	83.09	104.00
125	L1	55	DG	O3'-P-O5'	-11.00	83.09	104.00
143	MA	43	DG	O3'-P-O5'	-11.00	83.09	104.00
119	K7	3	DG	O3'-P-O5'	-11.00	83.10	104.00
128	L5	10	DG	O3'-P-O5'	-11.00	83.10	104.00
187	R5	18	DG	O3'-P-O5'	-11.00	83.10	104.00
192	RC	33	DG	O3'-P-O5'	-11.00	83.09	104.00
204	T3	1	DG	O3'-P-O5'	-11.00	83.09	104.00
206	T7	12	DG	O3'-P-O5'	-11.00	83.10	104.00
215	U7	11	DG	O3'-P-O5'	-11.00	83.10	104.00
216	U8	19	DG	O3'-P-O5'	-11.00	83.09	104.00
11	AB	20	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	386	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	3917	DG	O3'-P-O5'	-11.00	83.10	104.00
54	E8	26	DG	O3'-P-O5'	-11.00	83.10	104.00
69	FD	2	DG	O3'-P-O5'	-11.00	83.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	457	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	590	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	2550	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	6413	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	6463	DG	O3'-P-O5'	-11.00	83.10	104.00
69	FD	31	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	1095	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	1395	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	1703	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	1770	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	1914	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	4071	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	4532	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	3769	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	4085	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	4525	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	4654	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	4689	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	5534	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	6042	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	6218	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	7190	DG	O3'-P-O5'	-11.00	83.10	104.00
44	D9	27	DG	O3'-P-O5'	-11.00	83.10	104.00
112	JC	4	DG	O3'-P-O5'	-11.00	83.10	104.00
66	F9	7	DG	O3'-P-O5'	-11.00	83.10	104.00
72	G3	14	DG	O3'-P-O5'	-11.00	83.10	104.00
88	H9	16	DG	O3'-P-O5'	-11.00	83.10	104.00
80	GD	21	DG	O3'-P-O5'	-11.00	83.10	104.00
94	I3	55	DG	O3'-P-O5'	-11.00	83.10	104.00
147	N3	5	DG	O3'-P-O5'	-11.00	83.10	104.00
167	P3	9	DG	O3'-P-O5'	-11.00	83.10	104.00
172	P9	20	DG	O3'-P-O5'	-11.00	83.10	104.00
187	R5	10	DG	O3'-P-O5'	-11.00	83.10	104.00
188	R7	8	DG	O3'-P-O5'	-11.00	83.10	104.00
192	RC	7	DG	O3'-P-O5'	-11.00	83.10	104.00
195	S3	2	DG	O3'-P-O5'	-11.00	83.10	104.00
195	S3	7	DG	O3'-P-O5'	-11.00	83.10	104.00
200	SA	12	DG	O3'-P-O5'	-11.00	83.10	104.00
213	U3	19	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	61	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	427	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	1146	DG	O3'-P-O5'	-11.00	83.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1347	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	1706	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	2169	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	3491	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	4202	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	5365	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	6146	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	6400	DG	O3'-P-O5'	-11.00	83.10	104.00
92	I1	17	DG	O3'-P-O5'	-11.00	83.11	104.00
142	M9	5	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	442	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	635	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	726	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	817	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	958	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	1501	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	1848	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	1863	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	1979	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	4063	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	5045	DG	O3'-P-O5'	-11.00	83.11	104.00
106	J5	7	DG	O3'-P-O5'	-11.00	83.10	104.00
206	T7	9	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	2883	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	3414	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	3584	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	4303	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	4400	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	4572	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	4854	DG	O3'-P-O5'	-11.00	83.10	104.00
11	AB	6168	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	6406	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	6646	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	7050	DG	O3'-P-O5'	-11.00	83.11	104.00
13	AD	33	DG	O3'-P-O5'	-11.00	83.11	104.00
18	B5	8	DG	O3'-P-O5'	-11.00	83.11	104.00
37	D1	31	DG	O3'-P-O5'	-11.00	83.11	104.00
41	D6	19	DG	O3'-P-O5'	-11.00	83.11	104.00
52	E6	33	DG	O3'-P-O5'	-11.00	83.11	104.00
53	E7	11	DG	O3'-P-O5'	-11.00	83.11	104.00
63	F6	9	DG	O3'-P-O5'	-11.00	83.11	104.00
86	H7	21	DG	O3'-P-O5'	-11.00	83.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
115	K2	20	DG	O3'-P-O5'	-11.00	83.11	104.00
119	K7	27	DG	O3'-P-O5'	-11.00	83.11	104.00
123	KC	19	DG	O3'-P-O5'	-11.00	83.11	104.00
143	MA	9	DG	O3'-P-O5'	-11.00	83.11	104.00
145	MD	24	DG	O3'-P-O5'	-11.00	83.11	104.00
147	N3	25	DG	O3'-P-O5'	-11.00	83.11	104.00
174	PC	7	DG	O3'-P-O5'	-11.00	83.11	104.00
186	R3	6	DG	O3'-P-O5'	-11.00	83.11	104.00
187	R5	4	DG	O3'-P-O5'	-11.00	83.11	104.00
190	R9	28	DG	O3'-P-O5'	-11.00	83.10	104.00
190	R9	45	DG	O3'-P-O5'	-11.00	83.11	104.00
206	T7	23	DG	O3'-P-O5'	-11.00	83.11	104.00
238	X9	53	DG	O3'-P-O5'	-11.00	83.11	104.00
11	AB	852	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	1092	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	1798	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	2171	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	2538	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	3555	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	4515	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	5134	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	5704	DG	O3'-P-O5'	-10.99	83.11	104.00
58	ED	7	DG	O3'-P-O5'	-10.99	83.11	104.00
62	F5	18	DG	O3'-P-O5'	-10.99	83.11	104.00
82	H2	21	DG	O3'-P-O5'	-10.99	83.11	104.00
85	H6	21	DG	O3'-P-O5'	-10.99	83.11	104.00
93	I2	25	DG	O3'-P-O5'	-10.99	83.11	104.00
118	K6	9	DG	O3'-P-O5'	-10.99	83.11	104.00
140	M7	13	DG	O3'-P-O5'	-10.99	83.11	104.00
182	QA	20	DG	O3'-P-O5'	-10.99	83.11	104.00
194	S2	15	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	307	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	768	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	859	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	1494	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	1559	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	1949	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	2273	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	3142	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	6064	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	3606	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	3779	DG	O3'-P-O5'	-10.99	83.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4048	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	4088	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	4105	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	4127	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	4859	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	4297	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	4496	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	4920	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	5176	DG	O3'-P-O5'	-10.99	83.11	104.00
13	AD	28	DG	O3'-P-O5'	-10.99	83.11	104.00
41	D6	5	DG	O3'-P-O5'	-10.99	83.11	104.00
68	FC	17	DG	O3'-P-O5'	-10.99	83.11	104.00
83	H3	5	DG	O3'-P-O5'	-10.99	83.11	104.00
94	I3	37	DG	O3'-P-O5'	-10.99	83.11	104.00
158	O5	50	DG	O3'-P-O5'	-10.99	83.11	104.00
159	O6	5	DG	O3'-P-O5'	-10.99	83.11	104.00
168	P5	3	DG	O3'-P-O5'	-10.99	83.11	104.00
178	Q5	5	DG	O3'-P-O5'	-10.99	83.11	104.00
197	S7	6	DG	O3'-P-O5'	-10.99	83.11	104.00
209	TA	33	DG	O3'-P-O5'	-10.99	83.11	104.00
238	X9	49	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	4725	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5497	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	5824	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	6492	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	6734	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	6821	DG	O3'-P-O5'	-10.99	83.11	104.00
125	L1	25	DG	O3'-P-O5'	-10.99	83.11	104.00
11	AB	6999	DG	O3'-P-O5'	-10.99	83.11	104.00
24	BC	15	DG	O3'-P-O5'	-10.99	83.11	104.00
27	C2	6	DG	O3'-P-O5'	-10.99	83.11	104.00
32	C8	8	DG	O3'-P-O5'	-10.99	83.12	104.00
35	CC	31	DG	O3'-P-O5'	-10.99	83.11	104.00
39	D3	32	DG	O3'-P-O5'	-10.99	83.11	104.00
43	D8	9	DG	O3'-P-O5'	-10.99	83.11	104.00
67	FA	18	DG	O3'-P-O5'	-10.99	83.11	104.00
76	G8	7	DG	O3'-P-O5'	-10.99	83.11	104.00
79	GC	12	DG	O3'-P-O5'	-10.99	83.11	104.00
88	H9	27	DG	O3'-P-O5'	-10.99	83.11	104.00
136	M2	6	DG	O3'-P-O5'	-10.99	83.11	104.00
140	M7	16	DG	O3'-P-O5'	-10.99	83.11	104.00
175	PD	17	DG	O3'-P-O5'	-10.99	83.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
91	HD	19	DG	O3'-P-O5'	-10.99	83.12	104.00
99	I9	21	DG	O3'-P-O5'	-10.99	83.11	104.00
146	N2	22	DG	O3'-P-O5'	-10.99	83.12	104.00
147	N3	12	DG	O3'-P-O5'	-10.99	83.11	104.00
152	N9	26	DG	O3'-P-O5'	-10.99	83.11	104.00
156	O2	29	DG	O3'-P-O5'	-10.99	83.11	104.00
156	O2	45	DG	O3'-P-O5'	-10.99	83.11	104.00
160	O7	13	DG	O3'-P-O5'	-10.99	83.11	104.00
163	OA	2	DG	O3'-P-O5'	-10.99	83.12	104.00
173	PA	36	DG	O3'-P-O5'	-10.99	83.11	104.00
209	TA	12	DG	O3'-P-O5'	-10.99	83.11	104.00
217	U9	21	DG	O3'-P-O5'	-10.99	83.11	104.00
4	A4	11	DG	O3'-P-O5'	-10.99	83.12	104.00
5	A5	23	DG	O3'-P-O5'	-10.99	83.12	104.00
6	A6	9	DG	O3'-P-O5'	-10.99	83.12	104.00
6	A6	28	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	2014	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	2556	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	4175	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5010	DG	O3'-P-O5'	-10.99	83.12	104.00
42	D7	19	DG	O3'-P-O5'	-10.99	83.12	104.00
225	V8	20	DG	O3'-P-O5'	-10.99	83.12	104.00
7	A7	15	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	90	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	943	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	1613	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	3022	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	4025	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5594	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	7235	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	4809	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	4947	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5017	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5277	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5866	DG	O3'-P-O5'	-10.99	83.12	104.00
47	DD	38	DG	O3'-P-O5'	-10.99	83.12	104.00
50	E3	4	DG	O3'-P-O5'	-10.99	83.12	104.00
54	E8	5	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5907	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	6933	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	7072	DG	O3'-P-O5'	-10.99	83.12	104.00
24	BC	39	DG	O3'-P-O5'	-10.99	83.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
68	FC	5	DG	O3'-P-O5'	-10.99	83.12	104.00
134	LC	16	DG	O3'-P-O5'	-10.99	83.12	104.00
204	T3	5	DG	O3'-P-O5'	-10.99	83.12	104.00
32	C8	47	DG	O3'-P-O5'	-10.99	83.12	104.00
38	D2	14	DG	O3'-P-O5'	-10.99	83.12	104.00
109	J8	40	DG	O3'-P-O5'	-10.99	83.12	104.00
125	L1	12	DG	O3'-P-O5'	-10.99	83.12	104.00
132	L9	12	DG	O3'-P-O5'	-10.99	83.12	104.00
151	N8	15	DG	O3'-P-O5'	-10.99	83.12	104.00
151	N8	20	DG	O3'-P-O5'	-10.99	83.12	104.00
153	NA	15	DG	O3'-P-O5'	-10.99	83.12	104.00
174	PC	26	DG	O3'-P-O5'	-10.99	83.12	104.00
164	OC	14	DG	O3'-P-O5'	-10.99	83.12	104.00
186	R3	11	DG	O3'-P-O5'	-10.99	83.12	104.00
220	UD	19	DG	O3'-P-O5'	-10.99	83.12	104.00
2	A2	3	DG	O3'-P-O5'	-10.99	83.12	104.00
10	AA	11	DG	O3'-P-O5'	-10.99	83.13	104.00
11	AB	114	DG	O3'-P-O5'	-10.99	83.13	104.00
11	AB	126	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	883	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	1053	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	1927	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	2588	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	2654	DG	O3'-P-O5'	-10.99	83.13	104.00
11	AB	3871	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	3888	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	4480	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	4489	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	4510	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	4629	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	4784	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5132	DG	O3'-P-O5'	-10.99	83.12	104.00
211	TD	10	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	4602	DG	O3'-P-O5'	-10.99	83.13	104.00
11	AB	4980	DG	O3'-P-O5'	-10.99	83.13	104.00
11	AB	5430	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5756	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5848	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	6004	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	5798	DG	O3'-P-O5'	-10.99	83.13	104.00
11	AB	6940	DG	O3'-P-O5'	-10.99	83.12	104.00
13	AD	14	DG	O3'-P-O5'	-10.99	83.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
236	X5	5	DG	O3'-P-O5'	-10.99	83.12	104.00
38	D2	11	DG	O3'-P-O5'	-10.99	83.13	104.00
43	D8	25	DG	O3'-P-O5'	-10.99	83.12	104.00
44	D9	18	DG	O3'-P-O5'	-10.99	83.13	104.00
47	DD	29	DG	O3'-P-O5'	-10.99	83.12	104.00
50	E3	2	DG	O3'-P-O5'	-10.99	83.12	104.00
69	FD	37	DG	O3'-P-O5'	-10.99	83.12	104.00
74	G6	21	DG	O3'-P-O5'	-10.99	83.12	104.00
82	H2	5	DG	O3'-P-O5'	-10.99	83.12	104.00
99	I9	17	DG	O3'-P-O5'	-10.99	83.12	104.00
144	MC	6	DG	O3'-P-O5'	-10.99	83.12	104.00
167	P3	29	DG	O3'-P-O5'	-10.99	83.12	104.00
211	TD	41	DG	O3'-P-O5'	-10.99	83.12	104.00
104	J2	26	DG	O3'-P-O5'	-10.99	83.13	104.00
108	J7	55	DG	O3'-P-O5'	-10.99	83.13	104.00
139	M6	19	DG	O3'-P-O5'	-10.99	83.13	104.00
183	QC	21	DG	O3'-P-O5'	-10.99	83.12	104.00
212	U2	10	DG	O3'-P-O5'	-10.99	83.12	104.00
11	AB	42	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	44	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	86	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	328	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	901	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	3653	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	1038	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	1284	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	1541	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	1667	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	1967	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	4216	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	5001	DG	O3'-P-O5'	-10.98	83.13	104.00
170	P7	12	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	2106	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	2178	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	2391	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	3621	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	4672	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	4711	DG	O3'-P-O5'	-10.98	83.13	104.00
102	ID	30	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	5024	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	5764	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	6024	DG	O3'-P-O5'	-10.98	83.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6057	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	6337	DG	O3'-P-O5'	-10.98	83.13	104.00
53	E7	16	DG	O3'-P-O5'	-10.98	83.13	104.00
88	H9	11	DG	O3'-P-O5'	-10.98	83.13	104.00
209	TA	27	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	6833	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	6907	DG	O3'-P-O5'	-10.98	83.13	104.00
31	C7	30	DG	O3'-P-O5'	-10.98	83.13	104.00
40	D5	24	DG	O3'-P-O5'	-10.98	83.13	104.00
56	EA	20	DG	O3'-P-O5'	-10.98	83.13	104.00
65	F8	3	DG	O3'-P-O5'	-10.98	83.13	104.00
82	H2	43	DG	O3'-P-O5'	-10.98	83.13	104.00
82	H2	47	DG	O3'-P-O5'	-10.98	83.13	104.00
97	I7	31	DG	O3'-P-O5'	-10.98	83.13	104.00
122	KA	13	DG	O3'-P-O5'	-10.98	83.13	104.00
145	MD	38	DG	O3'-P-O5'	-10.98	83.13	104.00
199	S9	10	DG	O3'-P-O5'	-10.98	83.13	104.00
200	SA	6	DG	O3'-P-O5'	-10.98	83.13	104.00
214	U5	21	DG	O3'-P-O5'	-10.98	83.13	104.00
227	VA	20	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	1573	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	14	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	1898	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	2674	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	3424	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	3469	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	3542	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	4061	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	5483	DG	O3'-P-O5'	-10.98	83.13	104.00
88	H9	14	DG	O3'-P-O5'	-10.98	83.14	104.00
139	M6	21	DG	O3'-P-O5'	-10.98	83.13	104.00
152	N9	18	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	4118	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	4322	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	4902	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	4943	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	5036	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	5084	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	5260	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	5793	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	6030	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	6918	DG	O3'-P-O5'	-10.98	83.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7012	DG	O3'-P-O5'	-10.98	83.14	104.00
192	RC	11	DG	O3'-P-O5'	-10.98	83.13	104.00
11	AB	6189	DG	O3'-P-O5'	-10.98	83.14	104.00
14	B1	21	DG	O3'-P-O5'	-10.98	83.14	104.00
22	B9	41	DG	O3'-P-O5'	-10.98	83.13	104.00
180	Q8	5	DG	O3'-P-O5'	-10.98	83.14	104.00
30	C6	31	DG	O3'-P-O5'	-10.98	83.14	104.00
38	D2	17	DG	O3'-P-O5'	-10.98	83.14	104.00
58	ED	21	DG	O3'-P-O5'	-10.98	83.14	104.00
185	R2	11	DG	O3'-P-O5'	-10.98	83.14	104.00
60	F2	12	DG	O3'-P-O5'	-10.98	83.14	104.00
75	G7	26	DG	O3'-P-O5'	-10.98	83.14	104.00
112	JC	12	DG	O3'-P-O5'	-10.98	83.14	104.00
161	O8	53	DG	O3'-P-O5'	-10.98	83.14	104.00
165	OD	55	DG	O3'-P-O5'	-10.98	83.14	104.00
169	P6	18	DG	O3'-P-O5'	-10.98	83.14	104.00
174	PC	11	DG	O3'-P-O5'	-10.98	83.13	104.00
204	T3	24	DG	O3'-P-O5'	-10.98	83.14	104.00
223	V5	10	DG	O3'-P-O5'	-10.98	83.14	104.00
228	VC	29	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	6755	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	7154	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	536	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	1282	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	1611	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	1922	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	3105	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	3369	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	4967	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	5772	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	6825	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	7187	DG	O3'-P-O5'	-10.98	83.14	104.00
117	K5	40	DG	O3'-P-O5'	-10.98	83.14	104.00
120	K8	6	DG	O3'-P-O5'	-10.98	83.14	104.00
223	V5	22	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	2311	DG	O3'-P-O5'	-10.98	83.15	104.00
11	AB	2729	DG	O3'-P-O5'	-10.98	83.15	104.00
11	AB	2910	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	5062	DG	O3'-P-O5'	-10.98	83.14	104.00
46	DC	8	DG	O3'-P-O5'	-10.98	83.14	104.00
60	F2	5	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	3445	DG	O3'-P-O5'	-10.98	83.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4472	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	5681	DG	O3'-P-O5'	-10.98	83.15	104.00
11	AB	6154	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	6630	DG	O3'-P-O5'	-10.98	83.14	104.00
11	AB	7145	DG	O3'-P-O5'	-10.98	83.14	104.00
60	F2	22	DG	O3'-P-O5'	-10.98	83.14	104.00
117	K5	27	DG	O3'-P-O5'	-10.98	83.14	104.00
217	U9	11	DG	O3'-P-O5'	-10.98	83.14	104.00
17	B4	11	DG	O3'-P-O5'	-10.98	83.15	104.00
49	E2	4	DG	O3'-P-O5'	-10.98	83.14	104.00
69	FD	44	DG	O3'-P-O5'	-10.98	83.14	104.00
96	I6	3	DG	O3'-P-O5'	-10.98	83.14	104.00
154	NC	26	DG	O3'-P-O5'	-10.98	83.15	104.00
189	R8	28	DG	O3'-P-O5'	-10.98	83.15	104.00
11	AB	1789	DG	O3'-P-O5'	-10.97	83.15	104.00
11	AB	1811	DG	O3'-P-O5'	-10.97	83.15	104.00
11	AB	294	DG	O3'-P-O5'	-10.97	83.15	104.00
11	AB	2373	DG	O3'-P-O5'	-10.97	83.15	104.00
11	AB	5019	DG	O3'-P-O5'	-10.97	83.15	104.00
11	AB	5946	DG	O3'-P-O5'	-10.97	83.15	104.00
11	AB	6831	DG	O3'-P-O5'	-10.97	83.15	104.00
11	AB	7177	DG	O3'-P-O5'	-10.97	83.15	104.00
18	B5	3	DG	O3'-P-O5'	-10.97	83.15	104.00
51	E5	25	DG	O3'-P-O5'	-10.97	83.15	104.00
133	LA	6	DG	O3'-P-O5'	-10.97	83.15	104.00
55	E9	22	DG	O3'-P-O5'	-10.97	83.15	104.00
11	AB	548	DG	O3'-P-O5'	-10.97	83.15	104.00
11	AB	886	DG	O3'-P-O5'	-10.97	83.16	104.00
11	AB	1819	DG	O3'-P-O5'	-10.97	83.16	104.00
11	AB	5050	DG	O3'-P-O5'	-10.97	83.15	104.00
30	C6	17	DG	O3'-P-O5'	-10.97	83.16	104.00
46	DC	16	DG	O3'-P-O5'	-10.97	83.16	104.00
90	HC	15	DG	O3'-P-O5'	-10.97	83.15	104.00
106	J5	30	DG	O3'-P-O5'	-10.97	83.16	104.00
107	J6	22	DG	O3'-P-O5'	-10.97	83.16	104.00
11	AB	3838	DG	O3'-P-O5'	-10.97	83.16	104.00
1	A1	15	DG	O3'-P-O5'	-10.97	83.16	104.00
10	AA	17	DG	O3'-P-O5'	-10.97	83.16	104.00
11	AB	2885	DG	O3'-P-O5'	-10.97	83.16	104.00
11	AB	4038	DG	O3'-P-O5'	-10.97	83.16	104.00
180	Q8	10	DG	O3'-P-O5'	-10.97	83.16	104.00
11	AB	499	DG	O3'-P-O5'	-10.97	83.16	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1267	DG	O3'-P-O5'	-10.96	83.17	104.00
11	AB	2877	DG	O3'-P-O5'	-10.97	83.16	104.00
11	AB	3729	DG	O3'-P-O5'	-10.96	83.17	104.00
11	AB	4846	DG	O3'-P-O5'	-10.96	83.17	104.00
20	B7	9	DG	O3'-P-O5'	-10.97	83.16	104.00
23	BA	17	DG	O3'-P-O5'	-10.96	83.17	104.00
214	U5	8	DG	O3'-P-O5'	-10.96	83.17	104.00
11	AB	1182	DG	O3'-P-O5'	-10.96	83.17	104.00
11	AB	4241	DG	O3'-P-O5'	-10.96	83.17	104.00
11	AB	4702	DG	O3'-P-O5'	-10.96	83.17	104.00
11	AB	7084	DG	O3'-P-O5'	-10.96	83.17	104.00
11	AB	2435	DG	O3'-P-O5'	-10.96	83.17	104.00
136	M2	18	DG	O3'-P-O5'	-10.96	83.17	104.00
222	V3	10	DG	O3'-P-O5'	-10.96	83.18	104.00
11	AB	1883	DG	O3'-P-O5'	-10.95	83.19	104.00
11	AB	390	DG	O3'-P-O5'	-10.94	83.22	104.00
11	AB	526	DG	O3'-P-O5'	-10.93	83.24	104.00
11	AB	6223	DG	O3'-P-O5'	-10.92	83.25	104.00
11	AB	5860	DG	O3'-P-O5'	-10.91	83.27	104.00
11	AB	661	DG	O3'-P-O5'	-10.91	83.27	104.00
11	AB	4184	DG	O3'-P-O5'	-10.84	83.40	104.00
11	AB	5119	DG	O3'-P-O5'	-10.80	83.48	104.00
12	AC	20	DG	P-O3'-C3'	-10.61	106.97	119.70
109	J8	44	DG	P-O3'-C3'	-10.61	106.97	119.70
109	J8	29	DG	P-O3'-C3'	-10.60	106.98	119.70
11	AB	582	DG	P-O3'-C3'	-10.60	106.98	119.70
165	OD	11	DG	P-O3'-C3'	-10.60	106.98	119.70
11	AB	1936	DG	P-O3'-C3'	-10.60	106.99	119.70
11	AB	3130	DG	P-O3'-C3'	-10.59	106.99	119.70
127	L3	15	DG	P-O3'-C3'	-10.59	106.99	119.70
137	M3	17	DG	P-O3'-C3'	-10.59	106.99	119.70
11	AB	6229	DG	P-O3'-C3'	-10.59	106.99	119.70
11	AB	1907	DG	P-O3'-C3'	-10.59	106.99	119.70
47	DD	25	DG	P-O3'-C3'	-10.59	106.99	119.70
11	AB	303	DG	P-O3'-C3'	-10.59	107.00	119.70
141	M8	15	DG	P-O3'-C3'	-10.59	106.99	119.70
11	AB	1016	DG	P-O3'-C3'	-10.59	107.00	119.70
28	C3	24	DG	P-O3'-C3'	-10.59	107.00	119.70
34	CA	11	DG	P-O3'-C3'	-10.59	107.00	119.70
152	N9	43	DG	P-O3'-C3'	-10.59	107.00	119.70
216	U8	14	DG	P-O3'-C3'	-10.59	107.00	119.70
11	AB	2267	DG	P-O3'-C3'	-10.58	107.00	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B9	45	DG	P-O3'-C3'	-10.58	107.00	119.70
11	AB	3334	DG	P-O3'-C3'	-10.58	107.00	119.70
11	AB	4358	DG	P-O3'-C3'	-10.58	107.00	119.70
234	W9	12	DG	P-O3'-C3'	-10.58	107.00	119.70
11	AB	3684	DG	P-O3'-C3'	-10.58	107.00	119.70
11	AB	3863	DG	P-O3'-C3'	-10.58	107.00	119.70
24	BC	12	DG	P-O3'-C3'	-10.58	107.00	119.70
25	BD	7	DG	P-O3'-C3'	-10.58	107.00	119.70
30	C6	41	DG	P-O3'-C3'	-10.58	107.00	119.70
109	J8	49	DG	P-O3'-C3'	-10.58	107.00	119.70
74	G6	7	DG	P-O3'-C3'	-10.58	107.00	119.70
148	N5	30	DG	P-O3'-C3'	-10.58	107.00	119.70
189	R8	31	DG	P-O3'-C3'	-10.58	107.01	119.70
223	V5	7	DG	P-O3'-C3'	-10.58	107.00	119.70
11	AB	5973	DG	P-O3'-C3'	-10.58	107.01	119.70
23	BA	10	DG	P-O3'-C3'	-10.58	107.01	119.70
11	AB	2483	DG	P-O3'-C3'	-10.58	107.01	119.70
52	E6	4	DG	P-O3'-C3'	-10.58	107.01	119.70
111	JA	4	DG	P-O3'-C3'	-10.58	107.01	119.70
179	Q7	7	DG	P-O3'-C3'	-10.58	107.01	119.70
165	OD	35	DG	P-O3'-C3'	-10.58	107.01	119.70
11	AB	3487	DG	P-O3'-C3'	-10.57	107.01	119.70
42	D7	15	DG	P-O3'-C3'	-10.57	107.01	119.70
116	K3	16	DG	P-O3'-C3'	-10.57	107.01	119.70
148	N5	5	DG	P-O3'-C3'	-10.57	107.01	119.70
11	AB	4778	DG	P-O3'-C3'	-10.57	107.01	119.70
11	AB	5054	DG	P-O3'-C3'	-10.57	107.01	119.70
11	AB	6810	DG	P-O3'-C3'	-10.57	107.01	119.70
182	QA	18	DG	P-O3'-C3'	-10.57	107.01	119.70
230	W3	48	DG	P-O3'-C3'	-10.57	107.01	119.70
11	AB	6310	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	6800	DG	P-O3'-C3'	-10.57	107.01	119.70
3	A3	14	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	216	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	2510	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	4233	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	4431	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	4961	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	6813	DG	P-O3'-C3'	-10.57	107.02	119.70
82	H2	30	DG	P-O3'-C3'	-10.57	107.02	119.70
89	HA	20	DG	P-O3'-C3'	-10.57	107.02	119.70
150	N7	20	DG	P-O3'-C3'	-10.57	107.02	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	789	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	807	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	2941	DG	P-O3'-C3'	-10.57	107.02	119.70
91	HD	15	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	3796	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	5949	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	6170	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	6318	DG	P-O3'-C3'	-10.57	107.02	119.70
11	AB	7199	DG	P-O3'-C3'	-10.57	107.02	119.70
44	D9	24	DG	P-O3'-C3'	-10.57	107.02	119.70
33	C9	6	DG	P-O3'-C3'	-10.57	107.02	119.70
150	N7	6	DG	P-O3'-C3'	-10.57	107.02	119.70
159	O6	20	DG	P-O3'-C3'	-10.57	107.02	119.70
162	O9	5	DG	P-O3'-C3'	-10.57	107.02	119.70
178	Q5	39	DG	P-O3'-C3'	-10.57	107.02	119.70
7	A7	8	DG	P-O3'-C3'	-10.56	107.02	119.70
11	AB	6454	DG	P-O3'-C3'	-10.56	107.02	119.70
16	B3	6	DG	P-O3'-C3'	-10.56	107.02	119.70
47	DD	34	DG	P-O3'-C3'	-10.56	107.02	119.70
11	AB	2091	DG	P-O3'-C3'	-10.56	107.02	119.70
11	AB	2337	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	5806	DG	P-O3'-C3'	-10.56	107.02	119.70
11	AB	6628	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	6750	DG	P-O3'-C3'	-10.56	107.02	119.70
11	AB	6768	DG	P-O3'-C3'	-10.56	107.02	119.70
93	I2	22	DG	P-O3'-C3'	-10.56	107.02	119.70
138	M5	6	DG	P-O3'-C3'	-10.56	107.02	119.70
157	O3	12	DG	P-O3'-C3'	-10.56	107.02	119.70
236	X5	9	DG	P-O3'-C3'	-10.56	107.02	119.70
229	VD	8	DG	P-O3'-C3'	-10.56	107.02	119.70
11	AB	348	DG	P-O3'-C3'	-10.56	107.03	119.70
124	KD	19	DG	P-O3'-C3'	-10.56	107.03	119.70
155	ND	7	DG	P-O3'-C3'	-10.56	107.03	119.70
232	W7	6	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	1299	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	1531	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	3399	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	4009	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	4336	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	4832	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	5399	DG	P-O3'-C3'	-10.56	107.03	119.70
43	D8	40	DG	P-O3'-C3'	-10.56	107.03	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
90	HC	21	DG	P-O3'-C3'	-10.56	107.03	119.70
122	KA	33	DG	P-O3'-C3'	-10.56	107.03	119.70
156	O2	40	DG	P-O3'-C3'	-10.56	107.03	119.70
67	FA	1	DG	P-O3'-C3'	-10.56	107.03	119.70
137	M3	34	DG	P-O3'-C3'	-10.56	107.03	119.70
161	O8	51	DG	P-O3'-C3'	-10.56	107.03	119.70
198	S8	29	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	273	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	2754	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	4645	DG	P-O3'-C3'	-10.56	107.03	119.70
29	C5	35	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	906	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	2031	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	2793	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	3376	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	4823	DG	P-O3'-C3'	-10.56	107.03	119.70
32	C8	37	DG	P-O3'-C3'	-10.56	107.03	119.70
174	PC	14	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	4018	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	5042	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	6514	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	6595	DG	P-O3'-C3'	-10.56	107.03	119.70
41	D6	9	DG	P-O3'-C3'	-10.56	107.03	119.70
87	H8	19	DG	P-O3'-C3'	-10.56	107.03	119.70
92	I1	15	DG	P-O3'-C3'	-10.56	107.03	119.70
102	ID	24	DG	P-O3'-C3'	-10.56	107.03	119.70
106	J5	34	DG	P-O3'-C3'	-10.56	107.03	119.70
151	N8	2	DG	P-O3'-C3'	-10.56	107.03	119.70
212	U2	13	DG	P-O3'-C3'	-10.56	107.03	119.70
107	J6	15	DG	P-O3'-C3'	-10.56	107.03	119.70
119	K7	9	DG	P-O3'-C3'	-10.56	107.03	119.70
188	R7	5	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	2067	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	4837	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	5116	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	5493	DG	P-O3'-C3'	-10.56	107.03	119.70
67	FA	32	DG	P-O3'-C3'	-10.55	107.03	119.70
105	J3	33	DG	P-O3'-C3'	-10.55	107.03	119.70
206	T7	15	DG	P-O3'-C3'	-10.56	107.03	119.70
6	A6	21	DG	P-O3'-C3'	-10.55	107.04	119.70
9	A9	10	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	1050	DG	P-O3'-C3'	-10.55	107.04	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1200	DG	P-O3'-C3'	-10.55	107.03	119.70
11	AB	1757	DG	P-O3'-C3'	-10.55	107.03	119.70
11	AB	4558	DG	P-O3'-C3'	-10.55	107.03	119.70
11	AB	5129	DG	P-O3'-C3'	-10.55	107.03	119.70
15	B2	16	DG	P-O3'-C3'	-10.56	107.03	119.70
114	K1	26	DG	P-O3'-C3'	-10.55	107.03	119.70
150	N7	3	DG	P-O3'-C3'	-10.56	107.03	119.70
169	P6	7	DG	P-O3'-C3'	-10.56	107.03	119.70
177	Q3	22	DG	P-O3'-C3'	-10.56	107.03	119.70
185	R2	8	DG	P-O3'-C3'	-10.56	107.03	119.70
206	T7	36	DG	P-O3'-C3'	-10.55	107.03	119.70
236	X5	19	DG	P-O3'-C3'	-10.56	107.03	119.70
11	AB	2160	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	3100	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	3896	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	4964	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	5421	DG	P-O3'-C3'	-10.55	107.03	119.70
11	AB	5572	DG	P-O3'-C3'	-10.55	107.03	119.70
17	B4	16	DG	P-O3'-C3'	-10.55	107.04	119.70
49	E2	32	DG	P-O3'-C3'	-10.55	107.04	119.70
51	E5	28	DG	P-O3'-C3'	-10.55	107.04	119.70
85	H6	29	DG	P-O3'-C3'	-10.55	107.03	119.70
95	I5	18	DG	P-O3'-C3'	-10.55	107.04	119.70
108	J7	8	DG	P-O3'-C3'	-10.55	107.03	119.70
113	JD	5	DG	P-O3'-C3'	-10.55	107.03	119.70
119	K7	22	DG	P-O3'-C3'	-10.55	107.03	119.70
123	KC	23	DG	P-O3'-C3'	-10.55	107.03	119.70
153	NA	22	DG	P-O3'-C3'	-10.55	107.04	119.70
224	V7	21	DG	P-O3'-C3'	-10.55	107.03	119.70
234	W9	16	DG	P-O3'-C3'	-10.55	107.04	119.70
2	A2	7	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	101	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	3088	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	4663	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	5304	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	5325	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	5987	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	6286	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	6543	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	6445	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	6969	DG	P-O3'-C3'	-10.55	107.04	119.70
33	C9	9	DG	P-O3'-C3'	-10.55	107.04	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
199	S9	22	DG	P-O3'-C3'	-10.55	107.04	119.70
46	DC	6	DG	P-O3'-C3'	-10.55	107.04	119.70
71	G2	10	DG	P-O3'-C3'	-10.55	107.04	119.70
95	I5	12	DG	P-O3'-C3'	-10.55	107.04	119.70
114	K1	31	DG	P-O3'-C3'	-10.55	107.04	119.70
131	L8	11	DG	P-O3'-C3'	-10.55	107.04	119.70
154	NC	6	DG	P-O3'-C3'	-10.55	107.04	119.70
185	R2	5	DG	P-O3'-C3'	-10.55	107.04	119.70
187	R5	37	DG	P-O3'-C3'	-10.55	107.04	119.70
200	SA	8	DG	P-O3'-C3'	-10.55	107.04	119.70
201	SC	12	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	2868	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	3066	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	5194	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	5899	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	6124	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	7202	DG	P-O3'-C3'	-10.55	107.04	119.70
28	C3	21	DG	P-O3'-C3'	-10.55	107.04	119.70
32	C8	53	DG	P-O3'-C3'	-10.55	107.04	119.70
52	E6	28	DG	P-O3'-C3'	-10.55	107.04	119.70
88	H9	23	DG	P-O3'-C3'	-10.55	107.04	119.70
196	S5	9	DG	P-O3'-C3'	-10.55	107.04	119.70
57	EC	21	DG	P-O3'-C3'	-10.55	107.04	119.70
83	H3	19	DG	P-O3'-C3'	-10.55	107.04	119.70
86	H7	14	DG	P-O3'-C3'	-10.55	107.04	119.70
107	J6	12	DG	P-O3'-C3'	-10.55	107.04	119.70
142	M9	1	DG	P-O3'-C3'	-10.55	107.04	119.70
145	MD	53	DG	P-O3'-C3'	-10.55	107.04	119.70
185	R2	20	DG	P-O3'-C3'	-10.55	107.04	119.70
213	U3	1	DG	P-O3'-C3'	-10.55	107.04	119.70
6	A6	6	DG	P-O3'-C3'	-10.55	107.05	119.70
11	AB	405	DG	P-O3'-C3'	-10.55	107.05	119.70
11	AB	1317	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	3230	DG	P-O3'-C3'	-10.55	107.04	119.70
152	N9	47	DG	P-O3'-C3'	-10.55	107.05	119.70
11	AB	1829	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	2001	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	2084	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	2643	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	3289	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	5005	DG	P-O3'-C3'	-10.55	107.04	119.70
11	AB	5231	DG	P-O3'-C3'	-10.55	107.05	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B6	15	DG	P-O3'-C3'	-10.55	107.05	119.70
22	B9	53	DG	P-O3'-C3'	-10.55	107.05	119.70
108	J7	5	DG	P-O3'-C3'	-10.55	107.05	119.70
18	B5	15	DG	P-O3'-C3'	-10.54	107.05	119.70
49	E2	28	DG	P-O3'-C3'	-10.54	107.05	119.70
61	F3	17	DG	P-O3'-C3'	-10.54	107.05	119.70
76	G8	12	DG	P-O3'-C3'	-10.54	107.05	119.70
113	JD	26	DG	P-O3'-C3'	-10.55	107.05	119.70
165	OD	51	DG	P-O3'-C3'	-10.55	107.04	119.70
95	I5	30	DG	P-O3'-C3'	-10.54	107.05	119.70
137	M3	5	DG	P-O3'-C3'	-10.54	107.05	119.70
137	M3	13	DG	P-O3'-C3'	-10.54	107.05	119.70
157	O3	1	DG	P-O3'-C3'	-10.55	107.05	119.70
194	S2	5	DG	P-O3'-C3'	-10.55	107.05	119.70
230	W3	39	DG	P-O3'-C3'	-10.55	107.05	119.70
180	Q8	24	DG	P-O3'-C3'	-10.54	107.05	119.70
219	UC	13	DG	P-O3'-C3'	-10.54	107.05	119.70
5	A5	9	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	270	DG	P-O3'-C3'	-10.54	107.05	119.70
40	D5	19	DG	P-O3'-C3'	-10.54	107.05	119.70
86	H7	11	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	70	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	82	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	152	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	474	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	579	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	628	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	1032	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	1875	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	2540	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	3421	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	3691	DG	P-O3'-C3'	-10.54	107.05	119.70
66	F9	5	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	4789	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	5072	DG	P-O3'-C3'	-10.54	107.05	119.70
60	F2	27	DG	P-O3'-C3'	-10.54	107.05	119.70
67	FA	3	DG	P-O3'-C3'	-10.54	107.05	119.70
89	HA	28	DG	P-O3'-C3'	-10.54	107.05	119.70
116	K3	6	DG	P-O3'-C3'	-10.54	107.05	119.70
91	HD	22	DG	P-O3'-C3'	-10.54	107.05	119.70
93	I2	41	DG	P-O3'-C3'	-10.54	107.05	119.70
119	K7	35	DG	P-O3'-C3'	-10.54	107.05	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
122	KA	44	DG	P-O3'-C3'	-10.54	107.05	119.70
138	M5	16	DG	P-O3'-C3'	-10.54	107.05	119.70
145	MD	55	DG	P-O3'-C3'	-10.54	107.05	119.70
160	O7	36	DG	P-O3'-C3'	-10.54	107.05	119.70
165	OD	32	DG	P-O3'-C3'	-10.54	107.05	119.70
209	TA	9	DG	P-O3'-C3'	-10.54	107.05	119.70
7	A7	11	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	1083	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	2489	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	3946	DG	P-O3'-C3'	-10.54	107.05	119.70
197	S7	23	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	22	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	1416	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	5012	DG	P-O3'-C3'	-10.54	107.05	119.70
28	C3	15	DG	P-O3'-C3'	-10.54	107.05	119.70
104	J2	13	DG	P-O3'-C3'	-10.54	107.05	119.70
114	K1	44	DG	P-O3'-C3'	-10.54	107.05	119.70
203	T2	26	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	138	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	936	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	978	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	1029	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	2622	DG	P-O3'-C3'	-10.54	107.05	119.70
49	E2	40	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	2077	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	3220	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	5425	DG	P-O3'-C3'	-10.54	107.05	119.70
102	ID	17	DG	P-O3'-C3'	-10.54	107.05	119.70
126	L2	48	DG	P-O3'-C3'	-10.54	107.05	119.70
139	M6	13	DG	P-O3'-C3'	-10.54	107.05	119.70
202	SD	10	DG	P-O3'-C3'	-10.54	107.05	119.70
222	V3	12	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	4307	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	5200	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	5262	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	5441	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	6616	DG	P-O3'-C3'	-10.54	107.05	119.70
11	AB	7028	DG	P-O3'-C3'	-10.54	107.06	119.70
29	C5	10	DG	P-O3'-C3'	-10.54	107.05	119.70
134	LC	12	DG	P-O3'-C3'	-10.54	107.05	119.70
43	D8	5	DG	P-O3'-C3'	-10.54	107.05	119.70
89	HA	25	DG	P-O3'-C3'	-10.54	107.05	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
231	W5	24	DG	P-O3'-C3'	-10.54	107.05	119.70
94	I3	29	DG	P-O3'-C3'	-10.54	107.06	119.70
111	JA	6	DG	P-O3'-C3'	-10.54	107.06	119.70
125	L1	2	DG	P-O3'-C3'	-10.54	107.06	119.70
129	L6	25	DG	P-O3'-C3'	-10.54	107.06	119.70
130	L7	56	DG	P-O3'-C3'	-10.54	107.06	119.70
152	N9	29	DG	P-O3'-C3'	-10.54	107.06	119.70
187	R5	21	DG	P-O3'-C3'	-10.54	107.06	119.70
214	U5	27	DG	P-O3'-C3'	-10.54	107.05	119.70
238	X9	20	DG	P-O3'-C3'	-10.54	107.05	119.70
1	A1	42	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	399	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	921	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	1989	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	2887	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	3325	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	3544	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	3753	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	6262	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	3814	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	3925	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	6780	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	6949	DG	P-O3'-C3'	-10.54	107.06	119.70
41	D6	1	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	4755	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	5087	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	5488	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	6115	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	6177	DG	P-O3'-C3'	-10.54	107.06	119.70
11	AB	6208	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	6250	DG	P-O3'-C3'	-10.54	107.06	119.70
17	B4	14	DG	P-O3'-C3'	-10.54	107.06	119.70
18	B5	13	DG	P-O3'-C3'	-10.53	107.06	119.70
22	B9	22	DG	P-O3'-C3'	-10.54	107.06	119.70
23	BA	30	DG	P-O3'-C3'	-10.53	107.06	119.70
29	C5	33	DG	P-O3'-C3'	-10.53	107.06	119.70
30	C6	33	DG	P-O3'-C3'	-10.53	107.06	119.70
35	CC	22	DG	P-O3'-C3'	-10.53	107.06	119.70
97	I7	8	DG	P-O3'-C3'	-10.54	107.06	119.70
125	L1	10	DG	P-O3'-C3'	-10.54	107.06	119.70
183	QC	11	DG	P-O3'-C3'	-10.53	107.06	119.70
183	QC	19	DG	P-O3'-C3'	-10.53	107.06	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
187	R5	27	DG	P-O3'-C3'	-10.53	107.06	119.70
190	R9	8	DG	P-O3'-C3'	-10.54	107.06	119.70
190	R9	13	DG	P-O3'-C3'	-10.53	107.06	119.70
199	S9	18	DG	P-O3'-C3'	-10.54	107.06	119.70
209	TA	31	DG	P-O3'-C3'	-10.54	107.06	119.70
228	VC	33	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	746	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	972	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	1836	DG	P-O3'-C3'	-10.53	107.06	119.70
32	C8	15	DG	P-O3'-C3'	-10.53	107.06	119.70
61	F3	23	DG	P-O3'-C3'	-10.53	107.06	119.70
94	I3	33	DG	P-O3'-C3'	-10.53	107.06	119.70
126	L2	36	DG	P-O3'-C3'	-10.53	107.06	119.70
130	L7	1	DG	P-O3'-C3'	-10.53	107.06	119.70
147	N3	2	DG	P-O3'-C3'	-10.53	107.06	119.70
182	QA	2	DG	P-O3'-C3'	-10.53	107.06	119.70
194	S2	18	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	989	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	1155	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	2718	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	4422	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	4748	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	5249	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	6151	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	6304	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	6328	DG	P-O3'-C3'	-10.53	107.06	119.70
108	J7	53	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	6346	DG	P-O3'-C3'	-10.53	107.06	119.70
21	B8	16	DG	P-O3'-C3'	-10.53	107.06	119.70
30	C6	37	DG	P-O3'-C3'	-10.53	107.06	119.70
115	K2	27	DG	P-O3'-C3'	-10.53	107.06	119.70
126	L2	51	DG	P-O3'-C3'	-10.53	107.06	119.70
130	L7	6	DG	P-O3'-C3'	-10.53	107.06	119.70
130	L7	34	DG	P-O3'-C3'	-10.53	107.06	119.70
165	OD	22	DG	P-O3'-C3'	-10.53	107.06	119.70
156	O2	19	DG	P-O3'-C3'	-10.53	107.06	119.70
173	PA	4	DG	P-O3'-C3'	-10.53	107.06	119.70
206	T7	34	DG	P-O3'-C3'	-10.53	107.06	119.70
225	V8	11	DG	P-O3'-C3'	-10.53	107.06	119.70
228	VC	24	DG	P-O3'-C3'	-10.53	107.06	119.70
230	W3	19	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	2974	DG	P-O3'-C3'	-10.53	107.07	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
94	I3	50	DG	P-O3'-C3'	-10.53	107.06	119.70
226	V9	28	DG	P-O3'-C3'	-10.53	107.06	119.70
11	AB	3387	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	5455	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	5656	DG	P-O3'-C3'	-10.53	107.06	119.70
14	B1	9	DG	P-O3'-C3'	-10.53	107.07	119.70
36	CD	3	DG	P-O3'-C3'	-10.53	107.06	119.70
45	DA	22	DG	P-O3'-C3'	-10.53	107.06	119.70
48	E1	5	DG	P-O3'-C3'	-10.53	107.06	119.70
211	TD	23	DG	P-O3'-C3'	-10.53	107.06	119.70
39	D3	20	DG	P-O3'-C3'	-10.53	107.07	119.70
70	G1	8	DG	P-O3'-C3'	-10.53	107.07	119.70
79	GC	5	DG	P-O3'-C3'	-10.53	107.06	119.70
81	H1	14	DG	P-O3'-C3'	-10.53	107.07	119.70
82	H2	14	DG	P-O3'-C3'	-10.53	107.06	119.70
87	H8	21	DG	P-O3'-C3'	-10.53	107.06	119.70
110	J9	10	DG	P-O3'-C3'	-10.53	107.06	119.70
125	L1	50	DG	P-O3'-C3'	-10.53	107.06	119.70
126	L2	24	DG	P-O3'-C3'	-10.53	107.06	119.70
169	P6	16	DG	P-O3'-C3'	-10.53	107.06	119.70
206	T7	55	DG	P-O3'-C3'	-10.53	107.06	119.70
10	AA	21	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	435	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	1020	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	1721	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	1808	DG	P-O3'-C3'	-10.53	107.07	119.70
27	C2	9	DG	P-O3'-C3'	-10.53	107.07	119.70
161	O8	28	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	1962	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	2486	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	3822	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	3844	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	4114	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	4795	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	7025	DG	P-O3'-C3'	-10.53	107.07	119.70
58	ED	32	DG	P-O3'-C3'	-10.53	107.07	119.70
74	G6	5	DG	P-O3'-C3'	-10.53	107.07	119.70
93	I2	19	DG	P-O3'-C3'	-10.53	107.07	119.70
181	Q9	2	DG	P-O3'-C3'	-10.53	107.07	119.70
59	F1	2	DG	P-O3'-C3'	-10.53	107.07	119.70
76	G8	20	DG	P-O3'-C3'	-10.53	107.07	119.70
104	J2	16	DG	P-O3'-C3'	-10.53	107.07	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
130	L7	38	DG	P-O3'-C3'	-10.53	107.07	119.70
181	Q9	20	DG	P-O3'-C3'	-10.53	107.07	119.70
195	S3	26	DG	P-O3'-C3'	-10.53	107.07	119.70
216	U8	11	DG	P-O3'-C3'	-10.53	107.07	119.70
235	WD	5	DG	P-O3'-C3'	-10.53	107.07	119.70
81	H1	6	DG	P-O3'-C3'	-10.53	107.07	119.70
83	H3	30	DG	P-O3'-C3'	-10.53	107.07	119.70
85	H6	5	DG	P-O3'-C3'	-10.53	107.07	119.70
99	I9	27	DG	P-O3'-C3'	-10.53	107.07	119.70
147	N3	7	DG	P-O3'-C3'	-10.53	107.07	119.70
168	P5	7	DG	P-O3'-C3'	-10.53	107.07	119.70
230	W3	9	DG	P-O3'-C3'	-10.53	107.07	119.70
233	W8	21	DG	P-O3'-C3'	-10.53	107.07	119.70
11	AB	2124	DG	P-O3'-C3'	-10.52	107.07	119.70
3	A3	20	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	207	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	243	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	522	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	2409	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	1311	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	1751	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	2073	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	3238	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	3723	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	4021	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	4280	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	4520	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	4801	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	5273	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	5840	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	6931	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	6966	DG	P-O3'-C3'	-10.52	107.07	119.70
128	L5	16	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	2145	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	4976	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	5474	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	7243	DG	P-O3'-C3'	-10.52	107.07	119.70
11	AB	7247	DG	P-O3'-C3'	-10.52	107.07	119.70
22	B9	50	DG	P-O3'-C3'	-10.52	107.07	119.70
24	BC	6	DG	P-O3'-C3'	-10.52	107.07	119.70
154	NC	4	DG	P-O3'-C3'	-10.52	107.07	119.70
29	C5	3	DG	P-O3'-C3'	-10.52	107.07	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	C8	19	DG	P-O3'-C3'	-10.52	107.08	119.70
47	DD	15	DG	P-O3'-C3'	-10.52	107.07	119.70
55	E9	13	DG	P-O3'-C3'	-10.52	107.07	119.70
58	ED	19	DG	P-O3'-C3'	-10.52	107.07	119.70
60	F2	20	DG	P-O3'-C3'	-10.52	107.07	119.70
95	I5	38	DG	P-O3'-C3'	-10.52	107.07	119.70
90	HC	25	DG	P-O3'-C3'	-10.52	107.08	119.70
104	J2	1	DG	P-O3'-C3'	-10.52	107.08	119.70
105	J3	9	DG	P-O3'-C3'	-10.52	107.07	119.70
119	K7	13	DG	P-O3'-C3'	-10.52	107.08	119.70
144	MC	1	DG	P-O3'-C3'	-10.52	107.07	119.70
191	RA	15	DG	P-O3'-C3'	-10.52	107.07	119.70
198	S8	27	DG	P-O3'-C3'	-10.52	107.07	119.70
199	S9	3	DG	P-O3'-C3'	-10.52	107.07	119.70
206	T7	5	DG	P-O3'-C3'	-10.52	107.07	119.70
2	A2	23	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	420	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	450	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	4611	DG	P-O3'-C3'	-10.52	107.08	119.70
37	D1	15	DG	P-O3'-C3'	-10.52	107.08	119.70
149	N6	26	DG	P-O3'-C3'	-10.52	107.08	119.70
8	A8	10	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	614	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	2187	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	2615	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	2726	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	3391	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	4892	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	5234	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	5743	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	6540	DG	P-O3'-C3'	-10.52	107.08	119.70
35	CC	7	DG	P-O3'-C3'	-10.52	107.08	119.70
40	D5	6	DG	P-O3'-C3'	-10.52	107.08	119.70
43	D8	37	DG	P-O3'-C3'	-10.52	107.08	119.70
55	E9	29	DG	P-O3'-C3'	-10.52	107.08	119.70
56	EA	8	DG	P-O3'-C3'	-10.52	107.08	119.70
77	G9	8	DG	P-O3'-C3'	-10.52	107.08	119.70
83	H3	24	DG	P-O3'-C3'	-10.52	107.08	119.70
93	I2	15	DG	P-O3'-C3'	-10.52	107.08	119.70
119	K7	1	DG	P-O3'-C3'	-10.52	107.08	119.70
136	M2	8	DG	P-O3'-C3'	-10.52	107.08	119.70
146	N2	8	DG	P-O3'-C3'	-10.52	107.08	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
206	T7	7	DG	P-O3'-C3'	-10.52	107.08	119.70
217	U9	24	DG	P-O3'-C3'	-10.52	107.08	119.70
229	VD	5	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	3115	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	760	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	1804	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	2863	DG	P-O3'-C3'	-10.52	107.08	119.70
55	E9	11	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	2379	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	2698	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	3364	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	3900	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	4271	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	4760	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	5909	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	6022	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	6665	DG	P-O3'-C3'	-10.52	107.08	119.70
16	B3	12	DG	P-O3'-C3'	-10.52	107.08	119.70
121	K9	27	DG	P-O3'-C3'	-10.52	107.08	119.70
11	AB	6158	DG	P-O3'-C3'	-10.52	107.08	119.70
26	C1	19	DG	P-O3'-C3'	-10.52	107.08	119.70
32	C8	32	DG	P-O3'-C3'	-10.52	107.08	119.70
78	GA	13	DG	P-O3'-C3'	-10.52	107.08	119.70
148	N5	18	DG	P-O3'-C3'	-10.52	107.08	119.70
187	R5	25	DG	P-O3'-C3'	-10.52	107.08	119.70
111	JA	13	DG	P-O3'-C3'	-10.52	107.08	119.70
155	ND	14	DG	P-O3'-C3'	-10.52	107.08	119.70
165	OD	29	DG	P-O3'-C3'	-10.52	107.08	119.70
175	PD	8	DG	P-O3'-C3'	-10.52	107.08	119.70
206	T7	42	DG	P-O3'-C3'	-10.52	107.08	119.70
178	Q5	15	DG	P-O3'-C3'	-10.52	107.08	119.70
221	V2	12	DG	P-O3'-C3'	-10.52	107.08	119.70
226	V9	22	DG	P-O3'-C3'	-10.52	107.08	119.70
1	A1	23	DG	P-O3'-C3'	-10.51	107.08	119.70
9	A9	8	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	828	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	3133	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	1068	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	1116	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	2028	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	2628	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	3633	DG	P-O3'-C3'	-10.51	107.08	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3727	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	4376	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	3892	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	4256	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	4438	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	4650	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	5192	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	5552	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	5611	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	5977	DG	P-O3'-C3'	-10.51	107.08	119.70
11	AB	7193	DG	P-O3'-C3'	-10.51	107.08	119.70
101	IC	13	DG	P-O3'-C3'	-10.51	107.08	119.70
154	NC	21	DG	P-O3'-C3'	-10.51	107.08	119.70
22	B9	24	DG	P-O3'-C3'	-10.51	107.08	119.70
45	DA	11	DG	P-O3'-C3'	-10.51	107.08	119.70
45	DA	20	DG	P-O3'-C3'	-10.51	107.08	119.70
53	E7	13	DG	P-O3'-C3'	-10.51	107.08	119.70
156	O2	54	DG	P-O3'-C3'	-10.51	107.08	119.70
175	PD	21	DG	P-O3'-C3'	-10.51	107.08	119.70
219	UC	27	DG	P-O3'-C3'	-10.51	107.09	119.70
222	V3	17	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	351	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	2063	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	2545	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	3124	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	4311	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	4807	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	5815	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	4683	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	5081	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	6943	DG	P-O3'-C3'	-10.51	107.09	119.70
156	O2	26	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	6331	DG	P-O3'-C3'	-10.51	107.09	119.70
24	BC	28	DG	P-O3'-C3'	-10.51	107.09	119.70
31	C7	20	DG	P-O3'-C3'	-10.51	107.09	119.70
103	J1	4	DG	P-O3'-C3'	-10.51	107.09	119.70
206	T7	40	DG	P-O3'-C3'	-10.51	107.09	119.70
37	D1	12	DG	P-O3'-C3'	-10.51	107.09	119.70
83	H3	11	DG	P-O3'-C3'	-10.51	107.09	119.70
90	HC	27	DG	P-O3'-C3'	-10.51	107.09	119.70
165	OD	6	DG	P-O3'-C3'	-10.51	107.09	119.70
225	V8	22	DG	P-O3'-C3'	-10.51	107.09	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
227	VA	5	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	124	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	681	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	2218	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	2688	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	3034	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	3175	DG	P-O3'-C3'	-10.51	107.09	119.70
73	G5	8	DG	P-O3'-C3'	-10.51	107.09	119.70
202	SD	16	DG	P-O3'-C3'	-10.51	107.09	119.70
9	A9	6	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	792	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	3097	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	3406	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	7174	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	4633	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	5761	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	5845	DG	P-O3'-C3'	-10.51	107.09	119.70
14	B1	27	DG	P-O3'-C3'	-10.51	107.09	119.70
18	B5	33	DG	P-O3'-C3'	-10.51	107.09	119.70
38	D2	1	DG	P-O3'-C3'	-10.51	107.09	119.70
55	E9	38	DG	P-O3'-C3'	-10.51	107.09	119.70
59	F1	18	DG	P-O3'-C3'	-10.51	107.09	119.70
61	F3	13	DG	P-O3'-C3'	-10.51	107.09	119.70
67	FA	27	DG	P-O3'-C3'	-10.51	107.09	119.70
94	I3	43	DG	P-O3'-C3'	-10.51	107.09	119.70
99	I9	29	DG	P-O3'-C3'	-10.51	107.09	119.70
113	JD	1	DG	P-O3'-C3'	-10.51	107.09	119.70
153	NA	17	DG	P-O3'-C3'	-10.51	107.09	119.70
179	Q7	25	DG	P-O3'-C3'	-10.51	107.09	119.70
11	AB	1194	DG	P-O3'-C3'	-10.50	107.09	119.70
11	AB	4411	DG	P-O3'-C3'	-10.50	107.09	119.70
11	AB	6897	DG	P-O3'-C3'	-10.50	107.09	119.70
63	F6	6	DG	P-O3'-C3'	-10.50	107.10	119.70
130	L7	36	DG	P-O3'-C3'	-10.50	107.09	119.70
11	AB	6746	DG	P-O3'-C3'	-10.50	107.10	119.70
102	ID	21	DG	P-O3'-C3'	-10.50	107.10	119.70
158	O5	32	DG	P-O3'-C3'	-10.50	107.09	119.70
160	O7	16	DG	P-O3'-C3'	-10.50	107.10	119.70
178	Q5	9	DG	P-O3'-C3'	-10.50	107.09	119.70
191	RA	7	DG	P-O3'-C3'	-10.50	107.10	119.70
206	T7	21	DG	P-O3'-C3'	-10.50	107.10	119.70
220	UD	7	DG	P-O3'-C3'	-10.50	107.09	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
207	T8	14	DG	P-O3'-C3'	-10.50	107.10	119.70
226	V9	24	DG	P-O3'-C3'	-10.50	107.10	119.70
238	X9	7	DG	P-O3'-C3'	-10.50	107.10	119.70
238	X9	55	DG	P-O3'-C3'	-10.50	107.10	119.70
4	A4	8	DG	P-O3'-C3'	-10.50	107.10	119.70
11	AB	483	DG	P-O3'-C3'	-10.50	107.10	119.70
11	AB	984	DG	P-O3'-C3'	-10.50	107.10	119.70
11	AB	1604	DG	P-O3'-C3'	-10.50	107.10	119.70
11	AB	2119	DG	P-O3'-C3'	-10.50	107.10	119.70
11	AB	2214	DG	P-O3'-C3'	-10.50	107.10	119.70
11	AB	7110	DG	P-O3'-C3'	-10.50	107.10	119.70
13	AD	16	DG	P-O3'-C3'	-10.50	107.10	119.70
11	AB	5875	DG	P-O3'-C3'	-10.50	107.10	119.70
11	AB	6893	DG	P-O3'-C3'	-10.50	107.10	119.70
13	AD	26	DG	P-O3'-C3'	-10.50	107.10	119.70
18	B5	29	DG	P-O3'-C3'	-10.50	107.10	119.70
39	D3	26	DG	P-O3'-C3'	-10.50	107.10	119.70
85	H6	26	DG	P-O3'-C3'	-10.50	107.10	119.70
118	K6	18	DG	P-O3'-C3'	-10.50	107.10	119.70
160	O7	48	DG	P-O3'-C3'	-10.50	107.10	119.70
210	TC	24	DG	P-O3'-C3'	-10.50	107.10	119.70
98	I8	35	DG	P-O3'-C3'	-10.50	107.10	119.70
117	K5	17	DG	P-O3'-C3'	-10.50	107.10	119.70
121	K9	9	DG	P-O3'-C3'	-10.50	107.10	119.70
194	S2	12	DG	P-O3'-C3'	-10.50	107.10	119.70
8	A8	5	DG	P-O3'-C3'	-10.50	107.10	119.70
202	SD	6	DG	P-O3'-C3'	-10.50	107.10	119.70
205	T5	22	DG	P-O3'-C3'	-10.50	107.10	119.70
11	AB	2986	DG	P-O3'-C3'	-10.50	107.11	119.70
11	AB	3576	DG	P-O3'-C3'	-10.50	107.11	119.70
11	AB	6255	DG	P-O3'-C3'	-10.50	107.10	119.70
140	M7	22	DG	P-O3'-C3'	-10.50	107.10	119.70
12	AC	5	DG	P-O3'-C3'	-10.50	107.11	119.70
24	BC	23	DG	P-O3'-C3'	-10.50	107.11	119.70
43	D8	33	DG	P-O3'-C3'	-10.50	107.11	119.70
49	E2	7	DG	P-O3'-C3'	-10.50	107.11	119.70
69	FD	40	DG	P-O3'-C3'	-10.50	107.10	119.70
151	N8	11	DG	P-O3'-C3'	-10.50	107.11	119.70
154	NC	8	DG	P-O3'-C3'	-10.50	107.10	119.70
196	S5	22	DG	P-O3'-C3'	-10.50	107.11	119.70
11	AB	140	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	1628	DG	P-O3'-C3'	-10.49	107.11	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2920	DG	P-O3'-C3'	-10.49	107.11	119.70
125	L1	33	DG	P-O3'-C3'	-10.49	107.11	119.70
195	S3	24	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	1998	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	2715	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	2826	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	3430	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	5583	DG	P-O3'-C3'	-10.49	107.11	119.70
66	F9	19	DG	P-O3'-C3'	-10.49	107.11	119.70
108	J7	31	DG	P-O3'-C3'	-10.49	107.11	119.70
199	S9	6	DG	P-O3'-C3'	-10.49	107.11	119.70
218	UA	11	DG	P-O3'-C3'	-10.49	107.11	119.70
219	UC	31	DG	P-O3'-C3'	-10.49	107.11	119.70
222	V3	21	DG	P-O3'-C3'	-10.49	107.11	119.70
167	P3	37	DG	P-O3'-C3'	-10.49	107.11	119.70
195	S3	22	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	4485	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	5257	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	6072	DG	P-O3'-C3'	-10.49	107.11	119.70
103	J1	9	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	7123	DG	P-O3'-C3'	-10.49	107.11	119.70
161	O8	9	DG	P-O3'-C3'	-10.49	107.11	119.70
167	P3	4	DG	P-O3'-C3'	-10.49	107.11	119.70
163	OA	4	DG	P-O3'-C3'	-10.49	107.11	119.70
206	T7	50	DG	P-O3'-C3'	-10.49	107.11	119.70
209	TA	6	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	93	DG	P-O3'-C3'	-10.49	107.11	119.70
14	B1	18	DG	P-O3'-C3'	-10.49	107.11	119.70
85	H6	31	DG	P-O3'-C3'	-10.49	107.11	119.70
11	AB	4329	DG	P-O3'-C3'	-10.49	107.12	119.70
11	AB	5956	DG	P-O3'-C3'	-10.49	107.11	119.70
25	BD	10	DG	P-O3'-C3'	-10.49	107.11	119.70
182	QA	15	DG	P-O3'-C3'	-10.49	107.12	119.70
225	V8	13	DG	P-O3'-C3'	-10.49	107.12	119.70
4	A4	23	DG	P-O3'-C3'	-10.48	107.12	119.70
106	J5	12	DG	P-O3'-C3'	-10.48	107.12	119.70
38	D2	6	DG	P-O3'-C3'	-10.48	107.12	119.70
89	HA	13	DG	P-O3'-C3'	-10.48	107.12	119.70
120	K8	10	DG	P-O3'-C3'	-10.48	107.12	119.70
138	M5	32	DG	P-O3'-C3'	-10.48	107.12	119.70
11	AB	2313	DG	P-O3'-C3'	-10.48	107.12	119.70
22	B9	11	DG	P-O3'-C3'	-10.48	107.12	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
170	P7	17	DG	P-O3'-C3'	-10.48	107.12	119.70
11	AB	5560	DG	P-O3'-C3'	-10.48	107.12	119.70
11	AB	6088	DG	P-O3'-C3'	-10.48	107.12	119.70
106	J5	4	DG	P-O3'-C3'	-10.48	107.12	119.70
11	AB	285	DG	P-O3'-C3'	-10.48	107.13	119.70
39	D3	29	DG	P-O3'-C3'	-10.48	107.13	119.70
11	AB	1944	DG	P-O3'-C3'	-10.48	107.13	119.70
11	AB	762	DG	P-O3'-C3'	-10.47	107.13	119.70
11	AB	940	DG	P-O3'-C3'	-10.47	107.13	119.70
11	AB	3381	DG	P-O3'-C3'	-10.47	107.13	119.70
11	AB	5152	DG	P-O3'-C3'	-10.47	107.13	119.70
114	K1	10	DG	P-O3'-C3'	-10.47	107.13	119.70
11	AB	891	DG	P-O3'-C3'	-10.47	107.14	119.70
84	H5	9	DG	P-O3'-C3'	-10.47	107.14	119.70
228	VC	35	DG	P-O3'-C3'	-10.47	107.14	119.70
11	AB	5686	DG	P-O3'-C3'	-10.46	107.15	119.70
22	B9	9	DG	P-O3'-C3'	-10.46	107.15	119.70
61	F3	10	DG	P-O3'-C3'	-10.46	107.14	119.70
102	ID	2	DG	P-O3'-C3'	-10.46	107.15	119.70
198	S8	34	DG	P-O3'-C3'	-10.46	107.15	119.70
11	AB	546	DG	P-O3'-C3'	-10.46	107.16	119.70
11	AB	5299	DG	P-O3'-C3'	-10.46	107.15	119.70
11	AB	5578	DG	P-O3'-C3'	-10.45	107.16	119.70
97	I7	33	DG	P-O3'-C3'	-10.45	107.17	119.70
11	AB	5066	DG	P-O3'-C3'	-10.39	107.23	119.70
11	AB	735	DG	P-O3'-C3'	-10.35	107.28	119.70
11	AB	317	DG	P-O3'-C3'	-10.34	107.29	119.70
11	AB	2592	DG	P-O3'-C3'	-10.33	107.30	119.70
11	AB	2360	DG	P-O3'-C3'	-10.30	107.34	119.70
11	AB	1260	DG	P-O3'-C3'	-10.28	107.37	119.70
11	AB	6789	DG	O3'-P-O5'	-10.20	84.63	104.00
11	AB	964	DG	O3'-P-O5'	-10.19	84.64	104.00
11	AB	2096	DG	O3'-P-O5'	-10.19	84.64	104.00
160	O7	43	DG	O3'-P-O5'	-10.19	84.64	104.00
11	AB	651	DG	O3'-P-O5'	-10.19	84.64	104.00
11	AB	5068	DG	O3'-P-O5'	-10.19	84.64	104.00
97	I7	26	DG	O3'-P-O5'	-10.19	84.65	104.00
11	AB	1845	DG	O3'-P-O5'	-10.18	84.65	104.00
11	AB	3562	DG	O3'-P-O5'	-10.18	84.65	104.00
11	AB	4881	DG	O3'-P-O5'	-10.18	84.65	104.00
11	AB	5720	DG	O3'-P-O5'	-10.18	84.65	104.00
11	AB	6817	DG	O3'-P-O5'	-10.18	84.65	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
154	NC	35	DG	O3'-P-O5'	-10.18	84.65	104.00
198	S8	8	DG	O3'-P-O5'	-10.18	84.66	104.00
11	AB	666	DG	O3'-P-O5'	-10.18	84.66	104.00
11	AB	2799	DG	O3'-P-O5'	-10.18	84.66	104.00
11	AB	3518	DG	O3'-P-O5'	-10.18	84.66	104.00
11	AB	3689	DG	O3'-P-O5'	-10.18	84.66	104.00
204	T3	31	DG	O3'-P-O5'	-10.18	84.66	104.00
11	AB	4290	DG	O3'-P-O5'	-10.18	84.66	104.00
11	AB	623	DG	O3'-P-O5'	-10.18	84.67	104.00
11	AB	1376	DG	O3'-P-O5'	-10.18	84.67	104.00
11	AB	4661	DG	O3'-P-O5'	-10.18	84.66	104.00
13	AD	38	DG	O3'-P-O5'	-10.18	84.66	104.00
79	GC	18	DG	O3'-P-O5'	-10.18	84.66	104.00
11	AB	1138	DG	O3'-P-O5'	-10.18	84.67	104.00
11	AB	4097	DG	O3'-P-O5'	-10.18	84.67	104.00
11	AB	6568	DG	O3'-P-O5'	-10.18	84.67	104.00
11	AB	7078	DG	O3'-P-O5'	-10.18	84.66	104.00
11	AB	7091	DG	O3'-P-O5'	-10.18	84.67	104.00
57	EC	12	DG	O3'-P-O5'	-10.18	84.67	104.00
84	H5	7	DG	O3'-P-O5'	-10.18	84.67	104.00
128	L5	1	DG	O3'-P-O5'	-10.18	84.66	104.00
157	O3	19	DG	O3'-P-O5'	-10.18	84.66	104.00
161	O8	14	DG	O3'-P-O5'	-10.18	84.67	104.00
11	AB	359	DG	O3'-P-O5'	-10.17	84.67	104.00
76	G8	15	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	367	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	1153	DG	O3'-P-O5'	-10.17	84.67	104.00
196	S5	4	DG	O3'-P-O5'	-10.17	84.67	104.00
231	W5	18	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	3782	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	4092	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	5228	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	5710	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	6180	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	6577	DG	O3'-P-O5'	-10.17	84.67	104.00
55	E9	43	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	220	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	805	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	5150	DG	O3'-P-O5'	-10.17	84.67	104.00
11	AB	5993	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	6494	DG	O3'-P-O5'	-10.17	84.67	104.00
72	G3	4	DG	O3'-P-O5'	-10.17	84.67	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2857	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	4100	DG	O3'-P-O5'	-10.17	84.68	104.00
20	B7	21	DG	O3'-P-O5'	-10.17	84.68	104.00
29	C5	16	DG	O3'-P-O5'	-10.17	84.68	104.00
68	FC	11	DG	O3'-P-O5'	-10.17	84.68	104.00
76	G8	1	DG	O3'-P-O5'	-10.17	84.68	104.00
188	R7	10	DG	O3'-P-O5'	-10.17	84.68	104.00
215	U7	21	DG	O3'-P-O5'	-10.17	84.68	104.00
1	A1	53	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	361	DG	O3'-P-O5'	-10.17	84.68	104.00
5	A5	39	DG	O3'-P-O5'	-10.17	84.68	104.00
5	A5	41	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	183	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	375	DG	O3'-P-O5'	-10.17	84.68	104.00
17	B4	18	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	3013	DG	O3'-P-O5'	-10.17	84.69	104.00
11	AB	3649	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	4355	DG	O3'-P-O5'	-10.17	84.69	104.00
11	AB	4482	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	4681	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	5289	DG	O3'-P-O5'	-10.17	84.68	104.00
72	G3	20	DG	O3'-P-O5'	-10.17	84.68	104.00
11	AB	6724	DG	O3'-P-O5'	-10.17	84.69	104.00
66	F9	16	DG	O3'-P-O5'	-10.17	84.69	104.00
67	FA	22	DG	O3'-P-O5'	-10.17	84.69	104.00
87	H8	15	DG	O3'-P-O5'	-10.17	84.68	104.00
135	LD	7	DG	O3'-P-O5'	-10.17	84.68	104.00
188	R7	25	DG	O3'-P-O5'	-10.17	84.68	104.00
207	T8	19	DG	O3'-P-O5'	-10.17	84.69	104.00
11	AB	454	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	925	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	1527	DG	O3'-P-O5'	-10.16	84.69	104.00
5	A5	19	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	2526	DG	O3'-P-O5'	-10.16	84.69	104.00
69	FD	26	DG	O3'-P-O5'	-10.16	84.69	104.00
148	N5	12	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	687	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	946	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	2977	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	3163	DG	O3'-P-O5'	-10.16	84.69	104.00
32	C8	42	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	3521	DG	O3'-P-O5'	-10.16	84.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4228	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	4953	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	5208	DG	O3'-P-O5'	-10.16	84.69	104.00
212	U2	20	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	6001	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	6100	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	6434	DG	O3'-P-O5'	-10.16	84.69	104.00
46	DC	14	DG	O3'-P-O5'	-10.16	84.69	104.00
95	I5	34	DG	O3'-P-O5'	-10.16	84.69	104.00
102	ID	8	DG	O3'-P-O5'	-10.16	84.69	104.00
204	T3	18	DG	O3'-P-O5'	-10.16	84.69	104.00
125	L1	29	DG	O3'-P-O5'	-10.16	84.69	104.00
169	P6	12	DG	O3'-P-O5'	-10.16	84.69	104.00
173	PA	18	DG	O3'-P-O5'	-10.16	84.69	104.00
5	A5	3	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	5168	DG	O3'-P-O5'	-10.16	84.69	104.00
8	A8	24	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	424	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	439	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	584	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	1853	DG	O3'-P-O5'	-10.16	84.69	104.00
114	K1	22	DG	O3'-P-O5'	-10.16	84.69	104.00
130	L7	10	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	1408	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	2056	DG	O3'-P-O5'	-10.16	84.69	104.00
144	MC	13	DG	O3'-P-O5'	-10.16	84.69	104.00
182	QA	24	DG	O3'-P-O5'	-10.16	84.69	104.00
215	U7	14	DG	O3'-P-O5'	-10.16	84.69	104.00
11	AB	2818	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	2962	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	3310	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	3604	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	4278	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	4284	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	4293	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	6581	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	6592	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	6874	DG	O3'-P-O5'	-10.16	84.70	104.00
29	C5	40	DG	O3'-P-O5'	-10.16	84.70	104.00
36	CD	19	DG	O3'-P-O5'	-10.16	84.70	104.00
152	N9	47	DG	O3'-P-O5'	-10.16	84.69	104.00
203	T2	14	DG	O3'-P-O5'	-10.16	84.70	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	970	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	430	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	1685	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	2110	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	2203	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	2206	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	3703	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	2298	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	2595	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	3476	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	3525	DG	O3'-P-O5'	-10.16	84.70	104.00
101	IC	25	DG	O3'-P-O5'	-10.16	84.70	104.00
223	V5	3	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	4740	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	5434	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	5802	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	6611	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	6672	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	6870	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	7032	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	7066	DG	O3'-P-O5'	-10.16	84.70	104.00
145	MD	33	DG	O3'-P-O5'	-10.16	84.70	104.00
11	AB	7038	DG	O3'-P-O5'	-10.16	84.70	104.00
39	D3	10	DG	O3'-P-O5'	-10.16	84.70	104.00
68	FC	14	DG	O3'-P-O5'	-10.16	84.70	104.00
78	GA	3	DG	O3'-P-O5'	-10.16	84.70	104.00
145	MD	46	DG	O3'-P-O5'	-10.16	84.70	104.00
182	QA	6	DG	O3'-P-O5'	-10.16	84.70	104.00
207	T8	23	DG	O3'-P-O5'	-10.16	84.70	104.00
218	UA	16	DG	O3'-P-O5'	-10.16	84.70	104.00
218	UA	18	DG	O3'-P-O5'	-10.16	84.70	104.00
230	W3	13	DG	O3'-P-O5'	-10.16	84.70	104.00
7	A7	8	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	955	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	1984	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	2196	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	2416	DG	O3'-P-O5'	-10.15	84.70	104.00
149	N6	36	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	2679	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	2806	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	3152	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	3289	DG	O3'-P-O5'	-10.15	84.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3478	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	4993	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	5914	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	6239	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	6760	DG	O3'-P-O5'	-10.15	84.70	104.00
11	AB	7193	DG	O3'-P-O5'	-10.15	84.70	104.00
42	D7	4	DG	O3'-P-O5'	-10.15	84.70	104.00
11	AB	6565	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	6621	DG	O3'-P-O5'	-10.15	84.71	104.00
22	B9	17	DG	O3'-P-O5'	-10.15	84.71	104.00
23	BA	34	DG	O3'-P-O5'	-10.15	84.71	104.00
58	ED	37	DG	O3'-P-O5'	-10.15	84.71	104.00
72	G3	11	DG	O3'-P-O5'	-10.15	84.71	104.00
78	GA	8	DG	O3'-P-O5'	-10.15	84.71	104.00
80	GD	16	DG	O3'-P-O5'	-10.15	84.71	104.00
91	HD	22	DG	O3'-P-O5'	-10.15	84.71	104.00
122	KA	33	DG	O3'-P-O5'	-10.15	84.71	104.00
152	N9	45	DG	O3'-P-O5'	-10.15	84.71	104.00
216	U8	5	DG	O3'-P-O5'	-10.15	84.71	104.00
190	R9	23	DG	O3'-P-O5'	-10.15	84.71	104.00
220	UD	7	DG	O3'-P-O5'	-10.15	84.71	104.00
231	W5	8	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	314	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	3960	DG	O3'-P-O5'	-10.15	84.71	104.00
1	A1	29	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	412	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	1380	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	1677	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	2341	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	2209	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	3757	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	4868	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	6813	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	6883	DG	O3'-P-O5'	-10.15	84.71	104.00
33	C9	2	DG	O3'-P-O5'	-10.15	84.71	104.00
122	KA	3	DG	O3'-P-O5'	-10.15	84.71	104.00
11	AB	4256	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	4685	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	6229	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	6245	DG	O3'-P-O5'	-10.15	84.72	104.00
13	AD	11	DG	O3'-P-O5'	-10.15	84.71	104.00
28	C3	24	DG	O3'-P-O5'	-10.15	84.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	D9	7	DG	O3'-P-O5'	-10.15	84.71	104.00
47	DD	6	DG	O3'-P-O5'	-10.15	84.71	104.00
83	H3	26	DG	O3'-P-O5'	-10.15	84.71	104.00
119	K7	29	DG	O3'-P-O5'	-10.15	84.72	104.00
128	L5	4	DG	O3'-P-O5'	-10.15	84.71	104.00
133	LA	19	DG	O3'-P-O5'	-10.15	84.72	104.00
137	M3	26	DG	O3'-P-O5'	-10.15	84.71	104.00
148	N5	7	DG	O3'-P-O5'	-10.15	84.71	104.00
180	Q8	26	DG	O3'-P-O5'	-10.15	84.71	104.00
192	RC	28	DG	O3'-P-O5'	-10.15	84.71	104.00
214	U5	38	DG	O3'-P-O5'	-10.15	84.71	104.00
227	VA	24	DG	O3'-P-O5'	-10.15	84.71	104.00
228	VC	9	DG	O3'-P-O5'	-10.15	84.71	104.00
5	A5	25	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	409	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	1821	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	2607	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	7243	DG	O3'-P-O5'	-10.15	84.72	104.00
69	FD	9	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	1046	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	1090	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	1144	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	1228	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	1391	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	1552	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	2292	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	3993	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	4638	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	5728	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	5818	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	6177	DG	O3'-P-O5'	-10.15	84.72	104.00
40	D5	6	DG	O3'-P-O5'	-10.15	84.72	104.00
115	K2	11	DG	O3'-P-O5'	-10.15	84.72	104.00
150	N7	15	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	1697	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	2483	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	2833	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	3314	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	3611	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	3842	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	4094	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	4239	DG	O3'-P-O5'	-10.15	84.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4280	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	4332	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	5382	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	5587	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	6795	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	7070	DG	O3'-P-O5'	-10.15	84.72	104.00
19	B6	9	DG	O3'-P-O5'	-10.15	84.72	104.00
45	DA	9	DG	O3'-P-O5'	-10.15	84.72	104.00
95	I5	22	DG	O3'-P-O5'	-10.15	84.72	104.00
98	I8	39	DG	O3'-P-O5'	-10.15	84.72	104.00
134	LC	19	DG	O3'-P-O5'	-10.15	84.72	104.00
145	MD	15	DG	O3'-P-O5'	-10.15	84.72	104.00
177	Q3	5	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	6357	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	6499	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	6557	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	7030	DG	O3'-P-O5'	-10.15	84.72	104.00
41	D6	33	DG	O3'-P-O5'	-10.15	84.72	104.00
43	D8	33	DG	O3'-P-O5'	-10.15	84.72	104.00
49	E2	28	DG	O3'-P-O5'	-10.15	84.72	104.00
51	E5	16	DG	O3'-P-O5'	-10.15	84.72	104.00
72	G3	26	DG	O3'-P-O5'	-10.15	84.72	104.00
94	I3	2	DG	O3'-P-O5'	-10.15	84.72	104.00
102	ID	26	DG	O3'-P-O5'	-10.15	84.72	104.00
123	KC	12	DG	O3'-P-O5'	-10.15	84.72	104.00
58	ED	32	DG	O3'-P-O5'	-10.15	84.72	104.00
125	L1	45	DG	O3'-P-O5'	-10.15	84.72	104.00
144	MC	10	DG	O3'-P-O5'	-10.15	84.72	104.00
152	N9	12	DG	O3'-P-O5'	-10.15	84.72	104.00
152	N9	29	DG	O3'-P-O5'	-10.15	84.72	104.00
213	U3	16	DG	O3'-P-O5'	-10.15	84.72	104.00
11	AB	213	DG	O3'-P-O5'	-10.14	84.72	104.00
11	AB	261	DG	O3'-P-O5'	-10.14	84.72	104.00
11	AB	273	DG	O3'-P-O5'	-10.14	84.72	104.00
11	AB	608	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	731	DG	O3'-P-O5'	-10.14	84.72	104.00
11	AB	3020	DG	O3'-P-O5'	-10.14	84.72	104.00
11	AB	3766	DG	O3'-P-O5'	-10.14	84.72	104.00
18	B5	33	DG	O3'-P-O5'	-10.14	84.72	104.00
25	BD	17	DG	O3'-P-O5'	-10.14	84.72	104.00
67	FA	1	DG	O3'-P-O5'	-10.14	84.72	104.00
99	I9	29	DG	O3'-P-O5'	-10.14	84.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
117	K5	36	DG	O3'-P-O5'	-10.14	84.72	104.00
133	LA	3	DG	O3'-P-O5'	-10.14	84.72	104.00
138	M5	23	DG	O3'-P-O5'	-10.14	84.72	104.00
11	AB	1341	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	1910	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	2022	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	2893	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	3232	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	4057	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	4336	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	4542	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	6340	DG	O3'-P-O5'	-10.14	84.73	104.00
111	JA	4	DG	O3'-P-O5'	-10.14	84.72	104.00
11	AB	6653	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	7059	DG	O3'-P-O5'	-10.14	84.73	104.00
14	B1	9	DG	O3'-P-O5'	-10.14	84.73	104.00
39	D3	3	DG	O3'-P-O5'	-10.14	84.73	104.00
76	G8	20	DG	O3'-P-O5'	-10.14	84.73	104.00
125	L1	2	DG	O3'-P-O5'	-10.14	84.73	104.00
126	L2	17	DG	O3'-P-O5'	-10.14	84.73	104.00
134	LC	10	DG	O3'-P-O5'	-10.14	84.72	104.00
166	P2	6	DG	O3'-P-O5'	-10.14	84.73	104.00
166	P2	13	DG	O3'-P-O5'	-10.14	84.73	104.00
213	U3	6	DG	O3'-P-O5'	-10.14	84.73	104.00
227	VA	12	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	180	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	223	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	1050	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	1288	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	1315	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	1815	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	846	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	2193	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	2356	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	3661	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	4112	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	4871	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	6126	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	6479	DG	O3'-P-O5'	-10.14	84.73	104.00
206	T7	40	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	2782	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	3395	DG	O3'-P-O5'	-10.14	84.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4029	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	7081	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	7151	DG	O3'-P-O5'	-10.14	84.73	104.00
79	GC	21	DG	O3'-P-O5'	-10.14	84.73	104.00
207	T8	9	DG	O3'-P-O5'	-10.14	84.73	104.00
42	D7	9	DG	O3'-P-O5'	-10.14	84.73	104.00
53	E7	1	DG	O3'-P-O5'	-10.14	84.73	104.00
57	EC	21	DG	O3'-P-O5'	-10.14	84.73	104.00
105	J3	9	DG	O3'-P-O5'	-10.14	84.73	104.00
130	L7	56	DG	O3'-P-O5'	-10.14	84.73	104.00
228	VC	33	DG	O3'-P-O5'	-10.14	84.73	104.00
235	WD	12	DG	O3'-P-O5'	-10.14	84.73	104.00
178	Q5	30	DG	O3'-P-O5'	-10.14	84.73	104.00
185	R2	5	DG	O3'-P-O5'	-10.14	84.73	104.00
11	AB	952	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	2956	DG	O3'-P-O5'	-10.14	84.74	104.00
31	C7	13	DG	O3'-P-O5'	-10.14	84.74	104.00
209	TA	6	DG	O3'-P-O5'	-10.14	84.74	104.00
7	A7	11	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	972	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	1068	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	1336	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	2944	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	3040	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	3175	DG	O3'-P-O5'	-10.14	84.74	104.00
119	K7	35	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	3466	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	3547	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	3818	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	5012	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	5735	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	6279	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	6346	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	6422	DG	O3'-P-O5'	-10.14	84.74	104.00
168	P5	15	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	7040	DG	O3'-P-O5'	-10.14	84.74	104.00
22	B9	47	DG	O3'-P-O5'	-10.14	84.74	104.00
39	D3	20	DG	O3'-P-O5'	-10.14	84.74	104.00
41	D6	1	DG	O3'-P-O5'	-10.14	84.74	104.00
64	F7	15	DG	O3'-P-O5'	-10.14	84.74	104.00
79	GC	5	DG	O3'-P-O5'	-10.14	84.74	104.00
173	PA	4	DG	O3'-P-O5'	-10.14	84.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
221	V2	15	DG	O3'-P-O5'	-10.14	84.74	104.00
225	V8	11	DG	O3'-P-O5'	-10.14	84.74	104.00
229	VD	8	DG	O3'-P-O5'	-10.14	84.74	104.00
3	A3	10	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	4365	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	5464	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	5924	DG	O3'-P-O5'	-10.14	84.74	104.00
7	A7	35	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1299	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1461	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1825	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	1962	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2067	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	2235	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	2452	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	2510	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	2793	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	3677	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	3731	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	5583	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	2829	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3277	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3361	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	3487	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3847	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	4745	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	5029	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	5072	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	5441	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	5660	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	6142	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	6595	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	6715	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	6992	DG	O3'-P-O5'	-10.14	84.74	104.00
91	HD	26	DG	O3'-P-O5'	-10.14	84.74	104.00
125	L1	50	DG	O3'-P-O5'	-10.14	84.74	104.00
11	AB	6943	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	6985	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	7110	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	7180	DG	O3'-P-O5'	-10.13	84.75	104.00
14	B1	3	DG	O3'-P-O5'	-10.13	84.75	104.00
16	B3	18	DG	O3'-P-O5'	-10.13	84.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B9	34	DG	O3'-P-O5'	-10.13	84.75	104.00
53	E7	13	DG	O3'-P-O5'	-10.13	84.75	104.00
61	F3	23	DG	O3'-P-O5'	-10.13	84.75	104.00
67	FA	32	DG	O3'-P-O5'	-10.13	84.74	104.00
75	G7	24	DG	O3'-P-O5'	-10.13	84.74	104.00
82	H2	14	DG	O3'-P-O5'	-10.13	84.74	104.00
94	I3	40	DG	O3'-P-O5'	-10.13	84.75	104.00
103	J1	26	DG	O3'-P-O5'	-10.13	84.74	104.00
109	J8	49	DG	O3'-P-O5'	-10.13	84.75	104.00
111	JA	6	DG	O3'-P-O5'	-10.13	84.74	104.00
141	M8	21	DG	O3'-P-O5'	-10.13	84.74	104.00
158	O5	32	DG	O3'-P-O5'	-10.13	84.75	104.00
166	P2	22	DG	O3'-P-O5'	-10.13	84.75	104.00
168	P5	10	DG	O3'-P-O5'	-10.13	84.74	104.00
199	S9	6	DG	O3'-P-O5'	-10.13	84.74	104.00
221	V2	12	DG	O3'-P-O5'	-10.13	84.74	104.00
227	VA	5	DG	O3'-P-O5'	-10.14	84.74	104.00
233	W8	21	DG	O3'-P-O5'	-10.13	84.74	104.00
234	W9	1	DG	O3'-P-O5'	-10.13	84.74	104.00
238	X9	37	DG	O3'-P-O5'	-10.13	84.74	104.00
11	AB	1155	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1724	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1836	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2418	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2863	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2901	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3307	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3892	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	4329	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	4535	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	5087	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	5279	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	6982	DG	O3'-P-O5'	-10.13	84.75	104.00
13	AD	22	DG	O3'-P-O5'	-10.13	84.75	104.00
23	BA	30	DG	O3'-P-O5'	-10.13	84.75	104.00
24	BC	34	DG	O3'-P-O5'	-10.13	84.75	104.00
36	CD	3	DG	O3'-P-O5'	-10.13	84.75	104.00
49	E2	7	DG	O3'-P-O5'	-10.13	84.75	104.00
52	E6	4	DG	O3'-P-O5'	-10.13	84.75	104.00
61	F3	17	DG	O3'-P-O5'	-10.13	84.75	104.00
99	I9	14	DG	O3'-P-O5'	-10.13	84.75	104.00
104	J2	16	DG	O3'-P-O5'	-10.13	84.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
106	J5	4	DG	O3'-P-O5'	-10.13	84.75	104.00
129	L6	25	DG	O3'-P-O5'	-10.13	84.75	104.00
198	S8	27	DG	O3'-P-O5'	-10.13	84.75	104.00
198	S8	29	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	681	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1362	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1481	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1531	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1739	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1929	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	6901	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2084	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2366	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2401	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2409	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2456	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2761	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3130	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3252	DG	O3'-P-O5'	-10.13	84.75	104.00
86	H7	11	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3155	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3576	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3638	DG	O3'-P-O5'	-10.13	84.75	104.00
89	HA	13	DG	O3'-P-O5'	-10.13	84.75	104.00
148	N5	5	DG	O3'-P-O5'	-10.13	84.75	104.00
234	W9	8	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3682	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3896	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	4197	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	4438	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	4551	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	6431	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	6573	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	6717	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	7199	DG	O3'-P-O5'	-10.13	84.75	104.00
13	AD	26	DG	O3'-P-O5'	-10.13	84.75	104.00
32	C8	15	DG	O3'-P-O5'	-10.13	84.75	104.00
106	J5	12	DG	O3'-P-O5'	-10.13	84.75	104.00
130	L7	36	DG	O3'-P-O5'	-10.13	84.75	104.00
139	M6	13	DG	O3'-P-O5'	-10.13	84.75	104.00
81	H1	6	DG	O3'-P-O5'	-10.13	84.75	104.00
81	H1	14	DG	O3'-P-O5'	-10.13	84.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
149	N6	21	DG	O3'-P-O5'	-10.13	84.75	104.00
84	H5	3	DG	O3'-P-O5'	-10.13	84.75	104.00
147	N3	2	DG	O3'-P-O5'	-10.13	84.75	104.00
150	N7	3	DG	O3'-P-O5'	-10.13	84.75	104.00
150	N7	6	DG	O3'-P-O5'	-10.13	84.75	104.00
167	P3	4	DG	O3'-P-O5'	-10.13	84.75	104.00
169	P6	16	DG	O3'-P-O5'	-10.13	84.75	104.00
178	Q5	15	DG	O3'-P-O5'	-10.13	84.75	104.00
206	T7	7	DG	O3'-P-O5'	-10.13	84.75	104.00
213	U3	1	DG	O3'-P-O5'	-10.13	84.75	104.00
214	U5	27	DG	O3'-P-O5'	-10.13	84.75	104.00
216	U8	14	DG	O3'-P-O5'	-10.13	84.75	104.00
236	X5	9	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1192	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	29	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	150	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	336	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	346	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	880	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2698	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	5093	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	1105	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	1264	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	1433	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	1641	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	1782	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	1804	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	2337	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	2516	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	2533	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	2932	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	6878	DG	O3'-P-O5'	-10.13	84.75	104.00
154	NC	4	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	3034	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	3181	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	3208	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	3243	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	3502	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	4233	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	4271	DG	O3'-P-O5'	-10.13	84.75	104.00
17	B4	14	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	4814	DG	O3'-P-O5'	-10.13	84.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4884	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	5448	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	6124	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	6857	DG	O3'-P-O5'	-10.13	84.75	104.00
12	AC	5	DG	O3'-P-O5'	-10.13	84.75	104.00
28	C3	21	DG	O3'-P-O5'	-10.13	84.75	104.00
99	I9	27	DG	O3'-P-O5'	-10.13	84.75	104.00
11	AB	6120	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	7004	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	7019	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	7129	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	7247	DG	O3'-P-O5'	-10.13	84.75	104.00
24	BC	28	DG	O3'-P-O5'	-10.13	84.76	104.00
56	EA	5	DG	O3'-P-O5'	-10.13	84.76	104.00
95	I5	30	DG	O3'-P-O5'	-10.13	84.75	104.00
160	O7	36	DG	O3'-P-O5'	-10.13	84.75	104.00
56	EA	10	DG	O3'-P-O5'	-10.13	84.76	104.00
89	HA	25	DG	O3'-P-O5'	-10.13	84.76	104.00
107	J6	41	DG	O3'-P-O5'	-10.13	84.76	104.00
108	J7	8	DG	O3'-P-O5'	-10.13	84.76	104.00
138	M5	6	DG	O3'-P-O5'	-10.13	84.76	104.00
149	N6	24	DG	O3'-P-O5'	-10.13	84.76	104.00
152	N9	41	DG	O3'-P-O5'	-10.13	84.76	104.00
161	O8	36	DG	O3'-P-O5'	-10.13	84.76	104.00
175	PD	21	DG	O3'-P-O5'	-10.13	84.76	104.00
181	Q9	2	DG	O3'-P-O5'	-10.13	84.76	104.00
206	T7	15	DG	O3'-P-O5'	-10.13	84.76	104.00
209	TA	9	DG	O3'-P-O5'	-10.13	84.76	104.00
222	V3	17	DG	O3'-P-O5'	-10.13	84.76	104.00
228	VC	35	DG	O3'-P-O5'	-10.13	84.76	104.00
229	VD	5	DG	O3'-P-O5'	-10.13	84.76	104.00
232	W7	6	DG	O3'-P-O5'	-10.13	84.76	104.00
236	X5	19	DG	O3'-P-O5'	-10.13	84.76	104.00
238	X9	55	DG	O3'-P-O5'	-10.13	84.76	104.00
1	A1	23	DG	O3'-P-O5'	-10.12	84.76	104.00
2	A2	23	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	704	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	936	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	4807	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	5005	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	5455	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	5942	DG	O3'-P-O5'	-10.13	84.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6923	DG	O3'-P-O5'	-10.13	84.76	104.00
21	B8	26	DG	O3'-P-O5'	-10.13	84.76	104.00
77	G9	8	DG	O3'-P-O5'	-10.13	84.76	104.00
84	H5	14	DG	O3'-P-O5'	-10.13	84.76	104.00
111	JA	13	DG	O3'-P-O5'	-10.13	84.76	104.00
163	OA	12	DG	O3'-P-O5'	-10.13	84.76	104.00
179	Q7	13	DG	O3'-P-O5'	-10.13	84.76	104.00
3	A3	17	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	871	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1634	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1829	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	1998	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	2063	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	2091	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	2334	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	2604	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	3044	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	3124	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	4036	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	4180	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	4338	DG	O3'-P-O5'	-10.12	84.76	104.00
66	F9	19	DG	O3'-P-O5'	-10.13	84.76	104.00
11	AB	4795	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	5893	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	6019	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	6255	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	6849	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	7136	DG	O3'-P-O5'	-10.12	84.77	104.00
16	B3	6	DG	O3'-P-O5'	-10.12	84.76	104.00
18	B5	29	DG	O3'-P-O5'	-10.12	84.77	104.00
41	D6	27	DG	O3'-P-O5'	-10.12	84.76	104.00
42	D7	15	DG	O3'-P-O5'	-10.12	84.76	104.00
47	DD	25	DG	O3'-P-O5'	-10.12	84.76	104.00
49	E2	17	DG	O3'-P-O5'	-10.13	84.76	104.00
48	E1	21	DG	O3'-P-O5'	-10.12	84.77	104.00
49	E2	34	DG	O3'-P-O5'	-10.12	84.76	104.00
67	FA	6	DG	O3'-P-O5'	-10.12	84.76	104.00
70	G1	16	DG	O3'-P-O5'	-10.12	84.76	104.00
78	GA	13	DG	O3'-P-O5'	-10.12	84.76	104.00
114	K1	31	DG	O3'-P-O5'	-10.13	84.76	104.00
117	K5	44	DG	O3'-P-O5'	-10.12	84.76	104.00
162	O9	5	DG	O3'-P-O5'	-10.12	84.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
182	QA	9	DG	O3'-P-O5'	-10.12	84.76	104.00
191	RA	7	DG	O3'-P-O5'	-10.12	84.76	104.00
202	SD	16	DG	O3'-P-O5'	-10.13	84.76	104.00
211	TD	17	DG	O3'-P-O5'	-10.12	84.77	104.00
214	U5	30	DG	O3'-P-O5'	-10.12	84.76	104.00
11	AB	481	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1902	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	3814	DG	O3'-P-O5'	-10.12	84.77	104.00
19	B6	17	DG	O3'-P-O5'	-10.12	84.77	104.00
31	C7	15	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	824	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	978	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	2486	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	2622	DG	O3'-P-O5'	-10.12	84.77	104.00
155	ND	3	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1349	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1643	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1757	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1808	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1936	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1944	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	5683	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	2267	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	2926	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	3880	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	4604	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	4760	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	5124	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	5129	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	5399	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	7102	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	7157	DG	O3'-P-O5'	-10.12	84.77	104.00
17	B4	16	DG	O3'-P-O5'	-10.12	84.77	104.00
24	BC	12	DG	O3'-P-O5'	-10.12	84.77	104.00
31	C7	3	DG	O3'-P-O5'	-10.12	84.77	104.00
34	CA	17	DG	O3'-P-O5'	-10.12	84.77	104.00
37	D1	12	DG	O3'-P-O5'	-10.12	84.77	104.00
47	DD	15	DG	O3'-P-O5'	-10.12	84.77	104.00
55	E9	13	DG	O3'-P-O5'	-10.12	84.77	104.00
114	K1	10	DG	O3'-P-O5'	-10.12	84.77	104.00
203	T2	22	DG	O3'-P-O5'	-10.12	84.77	104.00
60	F2	27	DG	O3'-P-O5'	-10.12	84.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
67	FA	27	DG	O3'-P-O5'	-10.12	84.77	104.00
86	H7	14	DG	O3'-P-O5'	-10.12	84.77	104.00
94	I3	33	DG	O3'-P-O5'	-10.12	84.77	104.00
94	I3	50	DG	O3'-P-O5'	-10.12	84.77	104.00
100	IA	6	DG	O3'-P-O5'	-10.12	84.77	104.00
110	J9	10	DG	O3'-P-O5'	-10.12	84.77	104.00
129	L6	6	DG	O3'-P-O5'	-10.12	84.77	104.00
146	N2	3	DG	O3'-P-O5'	-10.12	84.77	104.00
155	ND	10	DG	O3'-P-O5'	-10.12	84.77	104.00
187	R5	23	DG	O3'-P-O5'	-10.12	84.77	104.00
142	M9	21	DG	O3'-P-O5'	-10.12	84.77	104.00
145	MD	53	DG	O3'-P-O5'	-10.12	84.77	104.00
169	P6	7	DG	O3'-P-O5'	-10.12	84.77	104.00
172	P9	15	DG	O3'-P-O5'	-10.12	84.77	104.00
191	RA	15	DG	O3'-P-O5'	-10.12	84.77	104.00
194	S2	25	DG	O3'-P-O5'	-10.12	84.77	104.00
210	TC	24	DG	O3'-P-O5'	-10.12	84.77	104.00
226	V9	22	DG	O3'-P-O5'	-10.12	84.77	104.00
238	X9	20	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	2160	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	3863	DG	O3'-P-O5'	-10.12	84.77	104.00
2	A2	26	DG	O3'-P-O5'	-10.12	84.78	104.00
4	A4	8	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	207	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	614	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1016	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1648	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	3334	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	3866	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	4344	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	5205	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	5578	DG	O3'-P-O5'	-10.12	84.77	104.00
45	DA	11	DG	O3'-P-O5'	-10.12	84.77	104.00
71	G2	10	DG	O3'-P-O5'	-10.12	84.77	104.00
125	L1	33	DG	O3'-P-O5'	-10.12	84.77	104.00
151	N8	2	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	340	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	460	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	801	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	895	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	1114	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	1317	DG	O3'-P-O5'	-10.12	84.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1660	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	4743	DG	O3'-P-O5'	-10.12	84.77	104.00
113	JD	33	DG	O3'-P-O5'	-10.12	84.77	104.00
117	K5	17	DG	O3'-P-O5'	-10.12	84.77	104.00
185	R2	8	DG	O3'-P-O5'	-10.12	84.77	104.00
219	UC	8	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	1773	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	2119	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	2145	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	2187	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	2766	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	3381	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	3680	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	3914	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	4683	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	5200	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	5493	DG	O3'-P-O5'	-10.12	84.77	104.00
63	F6	17	DG	O3'-P-O5'	-10.12	84.77	104.00
165	OD	35	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	3824	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	4755	DG	O3'-P-O5'	-10.12	84.78	104.00
85	H6	26	DG	O3'-P-O5'	-10.12	84.77	104.00
185	R2	20	DG	O3'-P-O5'	-10.12	84.77	104.00
211	TD	13	DG	O3'-P-O5'	-10.12	84.77	104.00
225	V8	22	DG	O3'-P-O5'	-10.12	84.77	104.00
230	W3	9	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	4801	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	5611	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	5761	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	5837	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	5965	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6088	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6170	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6208	DG	O3'-P-O5'	-10.12	84.78	104.00
84	H5	9	DG	O3'-P-O5'	-10.12	84.77	104.00
156	O2	59	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	6262	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6310	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6709	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6838	DG	O3'-P-O5'	-10.12	84.77	104.00
219	UC	18	DG	O3'-P-O5'	-10.12	84.77	104.00
11	AB	6810	DG	O3'-P-O5'	-10.12	84.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6937	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	7169	DG	O3'-P-O5'	-10.12	84.78	104.00
16	B3	12	DG	O3'-P-O5'	-10.12	84.78	104.00
21	B8	12	DG	O3'-P-O5'	-10.12	84.78	104.00
33	C9	20	DG	O3'-P-O5'	-10.12	84.78	104.00
45	DA	22	DG	O3'-P-O5'	-10.12	84.78	104.00
59	F1	2	DG	O3'-P-O5'	-10.12	84.78	104.00
160	O7	16	DG	O3'-P-O5'	-10.12	84.77	104.00
60	F2	20	DG	O3'-P-O5'	-10.12	84.78	104.00
73	G5	16	DG	O3'-P-O5'	-10.12	84.78	104.00
93	I2	36	DG	O3'-P-O5'	-10.12	84.78	104.00
111	JA	10	DG	O3'-P-O5'	-10.12	84.78	104.00
115	K2	27	DG	O3'-P-O5'	-10.12	84.78	104.00
119	K7	22	DG	O3'-P-O5'	-10.12	84.78	104.00
137	M3	34	DG	O3'-P-O5'	-10.12	84.78	104.00
148	N5	18	DG	O3'-P-O5'	-10.12	84.78	104.00
156	O2	54	DG	O3'-P-O5'	-10.12	84.78	104.00
158	O5	7	DG	O3'-P-O5'	-10.12	84.78	104.00
160	O7	8	DG	O3'-P-O5'	-10.12	84.78	104.00
178	Q5	39	DG	O3'-P-O5'	-10.12	84.78	104.00
182	QA	18	DG	O3'-P-O5'	-10.12	84.78	104.00
188	R7	3	DG	O3'-P-O5'	-10.12	84.78	104.00
190	R9	8	DG	O3'-P-O5'	-10.12	84.78	104.00
200	SA	8	DG	O3'-P-O5'	-10.12	84.77	104.00
195	S3	24	DG	O3'-P-O5'	-10.12	84.78	104.00
204	T3	39	DG	O3'-P-O5'	-10.12	84.78	104.00
204	T3	44	DG	O3'-P-O5'	-10.12	84.78	104.00
226	V9	24	DG	O3'-P-O5'	-10.12	84.78	104.00
233	W8	15	DG	O3'-P-O5'	-10.12	84.78	104.00
4	A4	23	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	2826	DG	O3'-P-O5'	-10.12	84.78	104.00
82	H2	36	DG	O3'-P-O5'	-10.12	84.78	104.00
109	J8	29	DG	O3'-P-O5'	-10.12	84.78	104.00
116	K3	16	DG	O3'-P-O5'	-10.12	84.78	104.00
6	A6	23	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	9	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	64	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	140	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	628	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	270	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	405	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	910	DG	O3'-P-O5'	-10.12	84.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1311	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	2045	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	2139	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	2615	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	3247	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	3629	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	3691	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	3743	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	3966	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	4358	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	4376	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	4892	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	4904	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	5152	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	5304	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	5815	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6022	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6250	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6304	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6318	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6328	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6460	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6750	DG	O3'-P-O5'	-10.12	84.78	104.00
28	C3	15	DG	O3'-P-O5'	-10.12	84.78	104.00
34	CA	13	DG	O3'-P-O5'	-10.12	84.78	104.00
73	G5	22	DG	O3'-P-O5'	-10.12	84.78	104.00
126	L2	51	DG	O3'-P-O5'	-10.12	84.78	104.00
127	L3	15	DG	O3'-P-O5'	-10.12	84.78	104.00
156	O2	26	DG	O3'-P-O5'	-10.12	84.78	104.00
11	AB	6775	DG	O3'-P-O5'	-10.11	84.78	104.00
39	D3	29	DG	O3'-P-O5'	-10.11	84.78	104.00
41	D6	9	DG	O3'-P-O5'	-10.11	84.78	104.00
55	E9	11	DG	O3'-P-O5'	-10.12	84.78	104.00
199	S9	18	DG	O3'-P-O5'	-10.12	84.78	104.00
56	EA	12	DG	O3'-P-O5'	-10.11	84.78	104.00
82	H2	30	DG	O3'-P-O5'	-10.11	84.78	104.00
83	H3	30	DG	O3'-P-O5'	-10.11	84.78	104.00
93	I2	19	DG	O3'-P-O5'	-10.11	84.78	104.00
97	I7	11	DG	O3'-P-O5'	-10.12	84.78	104.00
105	J3	33	DG	O3'-P-O5'	-10.11	84.78	104.00
106	J5	34	DG	O3'-P-O5'	-10.11	84.78	104.00
107	J6	15	DG	O3'-P-O5'	-10.12	84.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
113	JD	26	DG	O3'-P-O5'	-10.12	84.78	104.00
155	ND	7	DG	O3'-P-O5'	-10.12	84.78	104.00
199	S9	3	DG	O3'-P-O5'	-10.12	84.78	104.00
116	K3	10	DG	O3'-P-O5'	-10.11	84.78	104.00
121	K9	25	DG	O3'-P-O5'	-10.11	84.78	104.00
161	O8	23	DG	O3'-P-O5'	-10.11	84.78	104.00
164	OC	26	DG	O3'-P-O5'	-10.12	84.78	104.00
183	QC	11	DG	O3'-P-O5'	-10.12	84.78	104.00
198	S8	34	DG	O3'-P-O5'	-10.11	84.78	104.00
202	SD	6	DG	O3'-P-O5'	-10.12	84.78	104.00
206	T7	5	DG	O3'-P-O5'	-10.12	84.78	104.00
206	T7	42	DG	O3'-P-O5'	-10.12	84.78	104.00
217	U9	24	DG	O3'-P-O5'	-10.12	84.78	104.00
221	V2	7	DG	O3'-P-O5'	-10.12	84.78	104.00
222	V3	12	DG	O3'-P-O5'	-10.12	84.78	104.00
232	W7	23	DG	O3'-P-O5'	-10.11	84.78	104.00
4	A4	25	DG	O3'-P-O5'	-10.11	84.78	104.00
9	A9	6	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	1275	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	6842	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	54	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	1020	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	1589	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	2974	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	1257	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	2001	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	2031	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	2173	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	2688	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	4068	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	5987	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	2301	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	2479	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	2726	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	3069	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	4645	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	6270	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	6454	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	6969	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	7202	DG	O3'-P-O5'	-10.11	84.79	104.00
28	C3	8	DG	O3'-P-O5'	-10.11	84.78	104.00
29	C5	3	DG	O3'-P-O5'	-10.11	84.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	C6	41	DG	O3'-P-O5'	-10.11	84.79	104.00
37	D1	15	DG	O3'-P-O5'	-10.11	84.79	104.00
88	H9	23	DG	O3'-P-O5'	-10.11	84.78	104.00
160	O7	48	DG	O3'-P-O5'	-10.11	84.78	104.00
11	AB	4834	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	4961	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	5557	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	5806	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	6765	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	7123	DG	O3'-P-O5'	-10.11	84.79	104.00
15	B2	16	DG	O3'-P-O5'	-10.11	84.79	104.00
22	B9	53	DG	O3'-P-O5'	-10.11	84.79	104.00
38	D2	6	DG	O3'-P-O5'	-10.11	84.78	104.00
49	E2	40	DG	O3'-P-O5'	-10.11	84.78	104.00
35	CC	28	DG	O3'-P-O5'	-10.11	84.79	104.00
46	DC	6	DG	O3'-P-O5'	-10.11	84.79	104.00
58	ED	9	DG	O3'-P-O5'	-10.11	84.79	104.00
67	FA	3	DG	O3'-P-O5'	-10.11	84.79	104.00
70	G1	8	DG	O3'-P-O5'	-10.11	84.79	104.00
93	I2	15	DG	O3'-P-O5'	-10.11	84.79	104.00
96	I6	10	DG	O3'-P-O5'	-10.11	84.78	104.00
103	J1	9	DG	O3'-P-O5'	-10.11	84.79	104.00
108	J7	12	DG	O3'-P-O5'	-10.11	84.79	104.00
108	J7	31	DG	O3'-P-O5'	-10.11	84.79	104.00
131	L8	11	DG	O3'-P-O5'	-10.11	84.79	104.00
137	M3	5	DG	O3'-P-O5'	-10.11	84.79	104.00
142	M9	1	DG	O3'-P-O5'	-10.11	84.79	104.00
156	O2	40	DG	O3'-P-O5'	-10.11	84.79	104.00
157	O3	12	DG	O3'-P-O5'	-10.11	84.79	104.00
159	O6	11	DG	O3'-P-O5'	-10.11	84.78	104.00
161	O8	6	DG	O3'-P-O5'	-10.11	84.79	104.00
165	OD	11	DG	O3'-P-O5'	-10.11	84.79	104.00
196	S5	9	DG	O3'-P-O5'	-10.11	84.79	104.00
161	O8	57	DG	O3'-P-O5'	-10.11	84.79	104.00
165	OD	22	DG	O3'-P-O5'	-10.11	84.79	104.00
174	PC	14	DG	O3'-P-O5'	-10.11	84.79	104.00
189	R8	31	DG	O3'-P-O5'	-10.11	84.79	104.00
226	V9	28	DG	O3'-P-O5'	-10.11	84.79	104.00
2	A2	7	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	22	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	330	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	450	DG	O3'-P-O5'	-10.11	84.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A3	14	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	216	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	399	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	435	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	476	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	546	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	828	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	921	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	1339	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	1418	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	1593	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	2073	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	4422	DG	O3'-P-O5'	-10.11	84.79	104.00
76	G8	12	DG	O3'-P-O5'	-10.11	84.79	104.00
148	N5	30	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	1875	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	2028	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	2545	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	3235	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	3325	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	4307	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	4753	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	6291	DG	O3'-P-O5'	-10.11	84.79	104.00
22	B9	45	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	4411	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	4611	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	4832	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	5116	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	5234	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	5656	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	5840	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	6137	DG	O3'-P-O5'	-10.11	84.79	104.00
83	H3	11	DG	O3'-P-O5'	-10.11	84.79	104.00
119	K7	13	DG	O3'-P-O5'	-10.11	84.79	104.00
182	QA	2	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	5973	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	6072	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	6439	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	6521	DG	O3'-P-O5'	-10.11	84.79	104.00
29	C5	35	DG	O3'-P-O5'	-10.11	84.79	104.00
32	C8	19	DG	O3'-P-O5'	-10.11	84.79	104.00
91	HD	15	DG	O3'-P-O5'	-10.11	84.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AD	16	DG	O3'-P-O5'	-10.11	84.79	104.00
14	B1	39	DG	O3'-P-O5'	-10.11	84.79	104.00
26	C1	4	DG	O3'-P-O5'	-10.11	84.80	104.00
30	C6	3	DG	O3'-P-O5'	-10.11	84.80	104.00
53	E7	20	DG	O3'-P-O5'	-10.11	84.79	104.00
56	EA	15	DG	O3'-P-O5'	-10.11	84.79	104.00
61	F3	10	DG	O3'-P-O5'	-10.11	84.80	104.00
83	H3	24	DG	O3'-P-O5'	-10.11	84.80	104.00
89	HA	20	DG	O3'-P-O5'	-10.11	84.80	104.00
95	I5	12	DG	O3'-P-O5'	-10.11	84.79	104.00
114	K1	26	DG	O3'-P-O5'	-10.11	84.79	104.00
124	KD	19	DG	O3'-P-O5'	-10.11	84.79	104.00
133	LA	13	DG	O3'-P-O5'	-10.11	84.79	104.00
137	M3	13	DG	O3'-P-O5'	-10.11	84.79	104.00
151	N8	11	DG	O3'-P-O5'	-10.11	84.79	104.00
179	Q7	7	DG	O3'-P-O5'	-10.11	84.79	104.00
152	N9	4	DG	O3'-P-O5'	-10.11	84.79	104.00
167	P3	37	DG	O3'-P-O5'	-10.11	84.79	104.00
176	Q2	15	DG	O3'-P-O5'	-10.11	84.79	104.00
187	R5	25	DG	O3'-P-O5'	-10.11	84.79	104.00
222	V3	21	DG	O3'-P-O5'	-10.11	84.79	104.00
225	V8	13	DG	O3'-P-O5'	-10.11	84.79	104.00
224	V7	21	DG	O3'-P-O5'	-10.11	84.79	104.00
238	X9	26	DG	O3'-P-O5'	-10.11	84.79	104.00
11	AB	420	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	16	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	541	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	582	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	3822	DG	O3'-P-O5'	-10.11	84.80	104.00
22	B9	11	DG	O3'-P-O5'	-10.11	84.80	104.00
97	I7	14	DG	O3'-P-O5'	-10.11	84.80	104.00
119	K7	1	DG	O3'-P-O5'	-10.11	84.80	104.00
219	UC	13	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	579	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	807	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	1074	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	1416	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	1489	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	1628	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	1989	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	2157	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	2239	DG	O3'-P-O5'	-10.11	84.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2569	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	2656	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	3115	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	3600	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	5845	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	6949	DG	O3'-P-O5'	-10.11	84.80	104.00
73	G5	8	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	3220	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	3739	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	3900	DG	O3'-P-O5'	-10.11	84.80	104.00
118	K6	18	DG	O3'-P-O5'	-10.11	84.80	104.00
218	UA	8	DG	O3'-P-O5'	-10.11	84.80	104.00
228	VC	24	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	4018	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	4778	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	5099	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	5413	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	6449	DG	O3'-P-O5'	-10.11	84.80	104.00
11	AB	7028	DG	O3'-P-O5'	-10.11	84.80	104.00
23	BA	5	DG	O3'-P-O5'	-10.11	84.80	104.00
63	F6	6	DG	O3'-P-O5'	-10.11	84.80	104.00
64	F7	24	DG	O3'-P-O5'	-10.11	84.80	104.00
85	H6	31	DG	O3'-P-O5'	-10.11	84.80	104.00
90	HC	27	DG	O3'-P-O5'	-10.11	84.80	104.00
102	ID	32	DG	O3'-P-O5'	-10.11	84.80	104.00
123	KC	23	DG	O3'-P-O5'	-10.11	84.80	104.00
125	L1	10	DG	O3'-P-O5'	-10.11	84.80	104.00
195	S3	26	DG	O3'-P-O5'	-10.11	84.80	104.00
138	M5	16	DG	O3'-P-O5'	-10.11	84.80	104.00
138	M5	32	DG	O3'-P-O5'	-10.11	84.80	104.00
153	NA	17	DG	O3'-P-O5'	-10.11	84.80	104.00
168	P5	7	DG	O3'-P-O5'	-10.11	84.80	104.00
180	Q8	24	DG	O3'-P-O5'	-10.11	84.80	104.00
182	QA	15	DG	O3'-P-O5'	-10.11	84.80	104.00
195	S3	22	DG	O3'-P-O5'	-10.11	84.80	104.00
206	T7	50	DG	O3'-P-O5'	-10.11	84.80	104.00
8	A8	7	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	152	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	285	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	333	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	746	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	751	DG	O3'-P-O5'	-10.10	84.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	874	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	3066	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	3890	DG	O3'-P-O5'	-10.10	84.80	104.00
12	AC	20	DG	O3'-P-O5'	-10.10	84.80	104.00
74	G6	33	DG	O3'-P-O5'	-10.10	84.80	104.00
126	L2	36	DG	O3'-P-O5'	-10.10	84.80	104.00
207	T8	14	DG	O3'-P-O5'	-10.10	84.80	104.00
6	A6	21	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	101	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	310	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	348	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	474	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	2038	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	3391	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	4663	DG	O3'-P-O5'	-10.10	84.80	104.00
18	B5	15	DG	O3'-P-O5'	-10.10	84.80	104.00
49	E2	32	DG	O3'-P-O5'	-10.10	84.80	104.00
87	H8	19	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	760	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	984	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	1116	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	1200	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	2218	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	2941	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	2986	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	5503	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	3406	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	3844	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	4009	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	5081	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	4431	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	4837	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	5299	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	6966	DG	O3'-P-O5'	-10.10	84.81	104.00
109	J8	44	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	5179	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	5183	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	5474	DG	O3'-P-O5'	-10.10	84.81	104.00
22	B9	24	DG	O3'-P-O5'	-10.10	84.80	104.00
22	B9	50	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	5875	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	5899	DG	O3'-P-O5'	-10.10	84.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5949	DG	O3'-P-O5'	-10.10	84.81	104.00
23	BA	10	DG	O3'-P-O5'	-10.10	84.80	104.00
11	AB	5977	DG	O3'-P-O5'	-10.10	84.81	104.00
30	C6	37	DG	O3'-P-O5'	-10.10	84.81	104.00
35	CC	18	DG	O3'-P-O5'	-10.10	84.80	104.00
39	D3	26	DG	O3'-P-O5'	-10.10	84.81	104.00
51	E5	8	DG	O3'-P-O5'	-10.10	84.80	104.00
51	E5	28	DG	O3'-P-O5'	-10.10	84.80	104.00
113	JD	5	DG	O3'-P-O5'	-10.10	84.80	104.00
130	L7	30	DG	O3'-P-O5'	-10.10	84.80	104.00
203	T2	26	DG	O3'-P-O5'	-10.10	84.80	104.00
218	UA	11	DG	O3'-P-O5'	-10.10	84.80	104.00
32	C8	53	DG	O3'-P-O5'	-10.10	84.81	104.00
56	EA	8	DG	O3'-P-O5'	-10.10	84.81	104.00
98	I8	35	DG	O3'-P-O5'	-10.10	84.81	104.00
108	J7	5	DG	O3'-P-O5'	-10.10	84.81	104.00
114	K1	44	DG	O3'-P-O5'	-10.10	84.81	104.00
130	L7	6	DG	O3'-P-O5'	-10.10	84.81	104.00
130	L7	38	DG	O3'-P-O5'	-10.10	84.81	104.00
152	N9	43	DG	O3'-P-O5'	-10.10	84.80	104.00
154	NC	8	DG	O3'-P-O5'	-10.10	84.81	104.00
165	OD	51	DG	O3'-P-O5'	-10.10	84.81	104.00
178	Q5	24	DG	O3'-P-O5'	-10.10	84.81	104.00
196	S5	29	DG	O3'-P-O5'	-10.10	84.80	104.00
219	UC	31	DG	O3'-P-O5'	-10.10	84.81	104.00
234	W9	16	DG	O3'-P-O5'	-10.10	84.80	104.00
181	Q9	20	DG	O3'-P-O5'	-10.10	84.81	104.00
207	T8	7	DG	O3'-P-O5'	-10.10	84.81	104.00
216	U8	11	DG	O3'-P-O5'	-10.10	84.81	104.00
223	V5	7	DG	O3'-P-O5'	-10.10	84.81	104.00
230	W3	48	DG	O3'-P-O5'	-10.10	84.81	104.00
1	A1	4	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	243	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	1188	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	4633	DG	O3'-P-O5'	-10.10	84.81	104.00
1	A1	42	DG	O3'-P-O5'	-10.10	84.81	104.00
8	A8	10	DG	O3'-P-O5'	-10.10	84.81	104.00
9	A9	8	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	82	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	1443	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	714	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	1751	DG	O3'-P-O5'	-10.10	84.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1907	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	2124	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	2379	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	2489	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	2754	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	2868	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	2920	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	3133	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	4021	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	4315	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	4748	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	5231	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	6543	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	6634	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	6746	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	7174	DG	O3'-P-O5'	-10.10	84.81	104.00
61	F3	13	DG	O3'-P-O5'	-10.10	84.81	104.00
108	J7	36	DG	O3'-P-O5'	-10.10	84.81	104.00
147	N3	7	DG	O3'-P-O5'	-10.10	84.81	104.00
197	S7	23	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	6893	DG	O3'-P-O5'	-10.10	84.81	104.00
32	C8	32	DG	O3'-P-O5'	-10.10	84.81	104.00
32	C8	37	DG	O3'-P-O5'	-10.10	84.81	104.00
33	C9	14	DG	O3'-P-O5'	-10.10	84.81	104.00
43	D8	40	DG	O3'-P-O5'	-10.10	84.81	104.00
45	DA	20	DG	O3'-P-O5'	-10.10	84.81	104.00
179	Q7	25	DG	O3'-P-O5'	-10.10	84.81	104.00
67	FA	15	DG	O3'-P-O5'	-10.10	84.81	104.00
93	I2	41	DG	O3'-P-O5'	-10.10	84.81	104.00
94	I3	29	DG	O3'-P-O5'	-10.10	84.81	104.00
161	O8	9	DG	O3'-P-O5'	-10.10	84.81	104.00
188	R7	5	DG	O3'-P-O5'	-10.10	84.81	104.00
230	W3	39	DG	O3'-P-O5'	-10.10	84.81	104.00
235	WD	5	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	351	DG	O3'-P-O5'	-10.10	84.81	104.00
11	AB	906	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	916	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	989	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	2077	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	2715	DG	O3'-P-O5'	-10.10	84.82	104.00
74	G6	7	DG	O3'-P-O5'	-10.10	84.81	104.00
126	L2	24	DG	O3'-P-O5'	-10.10	84.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
202	SD	10	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	1198	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	3376	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	3399	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	3421	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	3925	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	4520	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	4789	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	5194	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	5262	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	6540	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	6800	DG	O3'-P-O5'	-10.10	84.82	104.00
40	D5	19	DG	O3'-P-O5'	-10.10	84.82	104.00
64	F7	20	DG	O3'-P-O5'	-10.10	84.82	104.00
108	J7	53	DG	O3'-P-O5'	-10.10	84.82	104.00
119	K7	9	DG	O3'-P-O5'	-10.10	84.82	104.00
121	K9	9	DG	O3'-P-O5'	-10.10	84.82	104.00
126	L2	48	DG	O3'-P-O5'	-10.10	84.81	104.00
134	LC	12	DG	O3'-P-O5'	-10.10	84.82	104.00
136	M2	8	DG	O3'-P-O5'	-10.10	84.82	104.00
150	N7	20	DG	O3'-P-O5'	-10.10	84.82	104.00
154	NC	6	DG	O3'-P-O5'	-10.10	84.82	104.00
155	ND	14	DG	O3'-P-O5'	-10.10	84.82	104.00
238	X9	7	DG	O3'-P-O5'	-10.10	84.82	104.00
157	O3	1	DG	O3'-P-O5'	-10.10	84.82	104.00
161	O8	28	DG	O3'-P-O5'	-10.10	84.82	104.00
163	OA	4	DG	O3'-P-O5'	-10.10	84.82	104.00
165	OD	32	DG	O3'-P-O5'	-10.10	84.82	104.00
196	S5	22	DG	O3'-P-O5'	-10.10	84.82	104.00
234	W9	12	DG	O3'-P-O5'	-10.10	84.82	104.00
11	AB	3633	DG	O3'-P-O5'	-10.09	84.82	104.00
11	AB	3946	DG	O3'-P-O5'	-10.09	84.82	104.00
11	AB	5249	DG	O3'-P-O5'	-10.09	84.82	104.00
14	B1	27	DG	O3'-P-O5'	-10.09	84.82	104.00
48	E1	26	DG	O3'-P-O5'	-10.09	84.82	104.00
55	E9	29	DG	O3'-P-O5'	-10.09	84.82	104.00
11	AB	891	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	3409	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	3684	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	4042	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	4114	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	4650	DG	O3'-P-O5'	-10.09	84.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4823	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	5048	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	5346	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	5743	DG	O3'-P-O5'	-10.09	84.82	104.00
11	AB	6768	DG	O3'-P-O5'	-10.09	84.82	104.00
59	F1	18	DG	O3'-P-O5'	-10.09	84.82	104.00
31	C7	20	DG	O3'-P-O5'	-10.09	84.83	104.00
34	CA	11	DG	O3'-P-O5'	-10.09	84.82	104.00
74	G6	9	DG	O3'-P-O5'	-10.09	84.82	104.00
90	HC	25	DG	O3'-P-O5'	-10.09	84.82	104.00
102	ID	24	DG	O3'-P-O5'	-10.09	84.82	104.00
107	J6	12	DG	O3'-P-O5'	-10.09	84.82	104.00
113	JD	1	DG	O3'-P-O5'	-10.09	84.82	104.00
153	NA	7	DG	O3'-P-O5'	-10.09	84.82	104.00
206	T7	21	DG	O3'-P-O5'	-10.09	84.82	104.00
93	I2	38	DG	O3'-P-O5'	-10.09	84.83	104.00
95	I5	38	DG	O3'-P-O5'	-10.09	84.82	104.00
121	K9	27	DG	O3'-P-O5'	-10.09	84.83	104.00
145	MD	55	DG	O3'-P-O5'	-10.09	84.82	104.00
187	R5	37	DG	O3'-P-O5'	-10.09	84.82	104.00
190	R9	13	DG	O3'-P-O5'	-10.09	84.82	104.00
175	PD	8	DG	O3'-P-O5'	-10.09	84.83	104.00
187	R5	21	DG	O3'-P-O5'	-10.09	84.83	104.00
194	S2	12	DG	O3'-P-O5'	-10.09	84.82	104.00
232	W7	12	DG	O3'-P-O5'	-10.09	84.83	104.00
3	A3	20	DG	O3'-P-O5'	-10.09	84.83	104.00
6	A6	6	DG	O3'-P-O5'	-10.09	84.83	104.00
9	A9	10	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	38	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	124	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	138	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	289	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	303	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	940	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	1029	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	1194	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	1450	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	1470	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	1721	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	2951	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	3100	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	3230	DG	O3'-P-O5'	-10.09	84.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BD	10	DG	O3'-P-O5'	-10.09	84.83	104.00
131	L8	27	DG	O3'-P-O5'	-10.09	84.83	104.00
231	W5	24	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	3238	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	3419	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	4976	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	5273	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	5421	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	5425	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	5909	DG	O3'-P-O5'	-10.09	84.83	104.00
21	B8	16	DG	O3'-P-O5'	-10.09	84.83	104.00
24	BC	6	DG	O3'-P-O5'	-10.09	84.83	104.00
87	H8	21	DG	O3'-P-O5'	-10.09	84.83	104.00
153	NA	22	DG	O3'-P-O5'	-10.09	84.83	104.00
154	NC	21	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	6616	DG	O3'-P-O5'	-10.09	84.83	104.00
18	B5	13	DG	O3'-P-O5'	-10.09	84.83	104.00
83	H3	19	DG	O3'-P-O5'	-10.09	84.83	104.00
93	I2	22	DG	O3'-P-O5'	-10.09	84.83	104.00
102	ID	17	DG	O3'-P-O5'	-10.09	84.83	104.00
122	KA	44	DG	O3'-P-O5'	-10.09	84.83	104.00
170	P7	17	DG	O3'-P-O5'	-10.09	84.83	104.00
212	U2	13	DG	O3'-P-O5'	-10.09	84.83	104.00
156	O2	19	DG	O3'-P-O5'	-10.09	84.83	104.00
159	O6	20	DG	O3'-P-O5'	-10.09	84.83	104.00
206	T7	34	DG	O3'-P-O5'	-10.09	84.83	104.00
226	V9	16	DG	O3'-P-O5'	-10.09	84.83	104.00
230	W3	19	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	26	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	32	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	70	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	2643	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	3544	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	3753	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	4558	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	5042	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	5956	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	6518	DG	O3'-P-O5'	-10.09	84.83	104.00
31	C7	23	DG	O3'-P-O5'	-10.09	84.83	104.00
43	D8	5	DG	O3'-P-O5'	-10.09	84.83	104.00
182	QA	11	DG	O3'-P-O5'	-10.09	84.83	104.00
205	T5	22	DG	O3'-P-O5'	-10.09	84.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3088	DG	O3'-P-O5'	-10.09	84.84	104.00
11	AB	3097	DG	O3'-P-O5'	-10.09	84.84	104.00
11	AB	3723	DG	O3'-P-O5'	-10.09	84.84	104.00
11	AB	5686	DG	O3'-P-O5'	-10.09	84.83	104.00
89	HA	28	DG	O3'-P-O5'	-10.09	84.84	104.00
96	I6	5	DG	O3'-P-O5'	-10.09	84.83	104.00
137	M3	17	DG	O3'-P-O5'	-10.09	84.83	104.00
183	QC	19	DG	O3'-P-O5'	-10.09	84.83	104.00
11	AB	6115	DG	O3'-P-O5'	-10.09	84.84	104.00
11	AB	6151	DG	O3'-P-O5'	-10.09	84.84	104.00
11	AB	6665	DG	O3'-P-O5'	-10.09	84.84	104.00
19	B6	15	DG	O3'-P-O5'	-10.09	84.83	104.00
22	B9	22	DG	O3'-P-O5'	-10.09	84.84	104.00
24	BC	23	DG	O3'-P-O5'	-10.09	84.84	104.00
29	C5	10	DG	O3'-P-O5'	-10.09	84.84	104.00
33	C9	6	DG	O3'-P-O5'	-10.09	84.84	104.00
128	L5	16	DG	O3'-P-O5'	-10.09	84.83	104.00
199	S9	22	DG	O3'-P-O5'	-10.09	84.84	104.00
55	E9	38	DG	O3'-P-O5'	-10.09	84.84	104.00
74	G6	5	DG	O3'-P-O5'	-10.09	84.84	104.00
95	I5	18	DG	O3'-P-O5'	-10.09	84.84	104.00
165	OD	29	DG	O3'-P-O5'	-10.09	84.84	104.00
178	Q5	9	DG	O3'-P-O5'	-10.09	84.84	104.00
194	S2	18	DG	O3'-P-O5'	-10.09	84.84	104.00
206	T7	36	DG	O3'-P-O5'	-10.09	84.83	104.00
211	TD	23	DG	O3'-P-O5'	-10.09	84.84	104.00
11	AB	522	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	762	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	789	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	2718	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	3430	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	3796	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	4311	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	4485	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	5488	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	6445	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	6514	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	7025	DG	O3'-P-O5'	-10.08	84.84	104.00
33	C9	9	DG	O3'-P-O5'	-10.08	84.84	104.00
35	CC	7	DG	O3'-P-O5'	-10.08	84.84	104.00
38	D2	1	DG	O3'-P-O5'	-10.08	84.84	104.00
52	E6	28	DG	O3'-P-O5'	-10.08	84.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
69	FD	40	DG	O3'-P-O5'	-10.08	84.84	104.00
102	ID	2	DG	O3'-P-O5'	-10.08	84.84	104.00
201	SC	12	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	5560	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	6286	DG	O3'-P-O5'	-10.08	84.84	104.00
27	C2	9	DG	O3'-P-O5'	-10.08	84.84	104.00
35	CC	22	DG	O3'-P-O5'	-10.08	84.84	104.00
43	D8	37	DG	O3'-P-O5'	-10.08	84.84	104.00
85	H6	5	DG	O3'-P-O5'	-10.08	84.84	104.00
48	E1	5	DG	O3'-P-O5'	-10.08	84.84	104.00
90	HC	21	DG	O3'-P-O5'	-10.08	84.84	104.00
140	M7	22	DG	O3'-P-O5'	-10.08	84.84	104.00
149	N6	26	DG	O3'-P-O5'	-10.08	84.84	104.00
97	I7	8	DG	O3'-P-O5'	-10.08	84.84	104.00
102	ID	21	DG	O3'-P-O5'	-10.08	84.84	104.00
130	L7	34	DG	O3'-P-O5'	-10.08	84.84	104.00
165	OD	6	DG	O3'-P-O5'	-10.08	84.84	104.00
177	Q3	22	DG	O3'-P-O5'	-10.08	84.84	104.00
219	UC	27	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	2214	DG	O3'-P-O5'	-10.08	84.84	104.00
30	C6	33	DG	O3'-P-O5'	-10.08	84.85	104.00
130	L7	1	DG	O3'-P-O5'	-10.08	84.84	104.00
146	N2	8	DG	O3'-P-O5'	-10.08	84.84	104.00
8	A8	5	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	93	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	1604	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	2540	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	2628	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	3387	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	3727	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	4964	DG	O3'-P-O5'	-10.08	84.84	104.00
11	AB	5572	DG	O3'-P-O5'	-10.08	84.85	104.00
206	T7	55	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	6158	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	6931	DG	O3'-P-O5'	-10.08	84.85	104.00
26	C1	19	DG	O3'-P-O5'	-10.08	84.85	104.00
44	D9	24	DG	O3'-P-O5'	-10.08	84.85	104.00
47	DD	34	DG	O3'-P-O5'	-10.08	84.84	104.00
66	F9	5	DG	O3'-P-O5'	-10.08	84.85	104.00
97	I7	33	DG	O3'-P-O5'	-10.08	84.85	104.00
104	J2	1	DG	O3'-P-O5'	-10.08	84.85	104.00
223	V5	32	DG	O3'-P-O5'	-10.08	84.85	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	AA	21	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	792	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	1032	DG	O3'-P-O5'	-10.08	84.86	104.00
11	AB	1083	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	5066	DG	O3'-P-O5'	-10.08	84.86	104.00
11	AB	5192	DG	O3'-P-O5'	-10.08	84.85	104.00
11	AB	5325	DG	O3'-P-O5'	-10.08	84.85	104.00
29	C5	33	DG	O3'-P-O5'	-10.08	84.86	104.00
58	ED	19	DG	O3'-P-O5'	-10.08	84.85	104.00
92	I1	15	DG	O3'-P-O5'	-10.08	84.85	104.00
120	K8	10	DG	O3'-P-O5'	-10.08	84.85	104.00
141	M8	15	DG	O3'-P-O5'	-10.08	84.85	104.00
209	TA	31	DG	O3'-P-O5'	-10.08	84.85	104.00
5	A5	9	DG	O3'-P-O5'	-10.07	84.86	104.00
11	AB	2313	DG	O3'-P-O5'	-10.07	84.86	104.00
11	AB	5257	DG	O3'-P-O5'	-10.07	84.86	104.00
11	AB	6628	DG	O3'-P-O5'	-10.07	84.86	104.00
14	B1	18	DG	O3'-P-O5'	-10.07	84.86	104.00
22	B9	9	DG	O3'-P-O5'	-10.07	84.86	104.00
103	J1	4	DG	O3'-P-O5'	-10.07	84.86	104.00
11	AB	6897	DG	O3'-P-O5'	-10.07	84.86	104.00
187	R5	27	DG	O3'-P-O5'	-10.07	84.86	104.00
194	S2	5	DG	O3'-P-O5'	-10.07	84.86	104.00
11	AB	6458	DG	O3'-P-O5'	-10.07	84.86	104.00
11	AB	483	DG	O3'-P-O5'	-10.07	84.87	104.00
11	AB	5552	DG	O3'-P-O5'	-10.07	84.87	104.00
101	IC	13	DG	O3'-P-O5'	-10.07	84.86	104.00
11	AB	3364	DG	O3'-P-O5'	-10.07	84.87	104.00
25	BD	7	DG	O3'-P-O5'	-10.07	84.87	104.00
85	H6	29	DG	O3'-P-O5'	-10.07	84.87	104.00
11	AB	868	DG	O3'-P-O5'	-10.07	84.87	104.00
144	MC	1	DG	O3'-P-O5'	-10.07	84.87	104.00
11	AB	6331	DG	O3'-P-O5'	-10.07	84.88	104.00
94	I3	43	DG	O3'-P-O5'	-10.07	84.88	104.00
116	K3	6	DG	O3'-P-O5'	-10.07	84.87	104.00
161	O8	51	DG	O3'-P-O5'	-10.07	84.87	104.00
11	AB	2887	DG	O3'-P-O5'	-10.06	84.88	104.00
104	J2	13	DG	O3'-P-O5'	-10.06	84.88	104.00
11	AB	7197	DG	O3'-P-O5'	-10.06	84.88	104.00
11	AB	3458	DG	O3'-P-O5'	-10.05	84.90	104.00
11	AB	6780	DG	O3'-P-O5'	-10.05	84.90	104.00
11	AB	5054	DG	O3'-P-O5'	-10.05	84.91	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6912	DG	O3'-P-O5'	-10.04	84.92	104.00
11	AB	445	DG	O3'-P-O5'	-10.04	84.92	104.00
11	AB	2592	DG	O3'-P-O5'	-10.04	84.92	104.00
11	AB	898	DG	O3'-P-O5'	-10.03	84.94	104.00
11	AB	2734	DG	O3'-P-O5'	-10.03	84.94	104.00
11	AB	735	DG	O3'-P-O5'	-10.03	84.95	104.00
11	AB	317	DG	O3'-P-O5'	-10.01	84.98	104.00
11	AB	2360	DG	O3'-P-O5'	-10.01	84.98	104.00
11	AB	1260	DG	O3'-P-O5'	-9.99	85.01	104.00
229	VD	2	DA	O3'-P-O5'	-9.93	85.13	104.00
11	AB	3901	DA	O3'-P-O5'	-9.93	85.14	104.00
116	K3	19	DA	O3'-P-O5'	-9.93	85.14	104.00
217	U9	18	DA	O3'-P-O5'	-9.93	85.14	104.00
82	H2	31	DA	O3'-P-O5'	-9.92	85.15	104.00
182	QA	22	DA	O3'-P-O5'	-9.92	85.16	104.00
213	U3	24	DA	O3'-P-O5'	-9.92	85.15	104.00
23	BA	23	DA	O3'-P-O5'	-9.92	85.16	104.00
190	R9	40	DA	O3'-P-O5'	-9.92	85.16	104.00
96	I6	16	DA	O3'-P-O5'	-9.92	85.16	104.00
125	L1	35	DA	O3'-P-O5'	-9.92	85.16	104.00
161	O8	29	DA	O3'-P-O5'	-9.92	85.16	104.00
168	P5	17	DA	O3'-P-O5'	-9.92	85.16	104.00
11	AB	6590	DA	O3'-P-O5'	-9.91	85.16	104.00
1	A1	6	DA	O3'-P-O5'	-9.91	85.16	104.00
11	AB	364	DA	O3'-P-O5'	-9.91	85.16	104.00
61	F3	24	DA	O3'-P-O5'	-9.91	85.16	104.00
71	G2	12	DA	O3'-P-O5'	-9.91	85.16	104.00
238	X9	21	DA	O3'-P-O5'	-9.91	85.16	104.00
110	J9	6	DA	O3'-P-O5'	-9.91	85.17	104.00
167	P3	20	DA	O3'-P-O5'	-9.91	85.17	104.00
188	R7	22	DA	O3'-P-O5'	-9.91	85.17	104.00
206	T7	29	DA	O3'-P-O5'	-9.91	85.17	104.00
210	TC	5	DA	O3'-P-O5'	-9.91	85.17	104.00
11	AB	4330	DA	O3'-P-O5'	-9.91	85.17	104.00
135	LD	11	DA	O3'-P-O5'	-9.91	85.17	104.00
11	AB	553	DA	O3'-P-O5'	-9.91	85.17	104.00
11	AB	5439	DA	O3'-P-O5'	-9.91	85.17	104.00
72	G3	23	DA	O3'-P-O5'	-9.91	85.17	104.00
87	H8	10	DA	O3'-P-O5'	-9.91	85.17	104.00
105	J3	14	DA	O3'-P-O5'	-9.91	85.17	104.00
196	S5	23	DA	O3'-P-O5'	-9.91	85.17	104.00
163	OA	9	DA	O3'-P-O5'	-9.91	85.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
202	SD	18	DA	O3'-P-O5'	-9.91	85.17	104.00
238	X9	58	DA	O3'-P-O5'	-9.91	85.17	104.00
11	AB	4764	DA	O3'-P-O5'	-9.91	85.17	104.00
11	AB	5625	DA	O3'-P-O5'	-9.91	85.17	104.00
11	AB	7200	DA	O3'-P-O5'	-9.91	85.17	104.00
11	AB	5165	DA	O3'-P-O5'	-9.91	85.18	104.00
75	G7	2	DA	O3'-P-O5'	-9.91	85.18	104.00
104	J2	17	DA	O3'-P-O5'	-9.91	85.18	104.00
108	J7	45	DA	O3'-P-O5'	-9.91	85.18	104.00
237	X7	6	DA	O3'-P-O5'	-9.91	85.17	104.00
111	JA	14	DA	O3'-P-O5'	-9.91	85.18	104.00
210	TC	11	DA	O3'-P-O5'	-9.91	85.18	104.00
226	V9	20	DA	O3'-P-O5'	-9.91	85.18	104.00
2	A2	20	DA	O3'-P-O5'	-9.90	85.18	104.00
11	AB	657	DA	O3'-P-O5'	-9.90	85.18	104.00
11	AB	4443	DA	O3'-P-O5'	-9.90	85.18	104.00
11	AB	5938	DA	O3'-P-O5'	-9.90	85.18	104.00
47	DD	18	DA	O3'-P-O5'	-9.90	85.18	104.00
60	F2	3	DA	O3'-P-O5'	-9.90	85.18	104.00
11	AB	2259	DA	O3'-P-O5'	-9.90	85.18	104.00
28	C3	22	DA	O3'-P-O5'	-9.90	85.18	104.00
52	E6	19	DA	O3'-P-O5'	-9.90	85.19	104.00
81	H1	9	DA	O3'-P-O5'	-9.90	85.18	104.00
124	KD	3	DA	O3'-P-O5'	-9.90	85.18	104.00
196	S5	6	DA	O3'-P-O5'	-9.90	85.18	104.00
113	JD	23	DA	O3'-P-O5'	-9.90	85.19	104.00
126	L2	57	DA	O3'-P-O5'	-9.90	85.18	104.00
129	L6	27	DA	O3'-P-O5'	-9.90	85.18	104.00
148	N5	15	DA	O3'-P-O5'	-9.90	85.18	104.00
177	Q3	14	DA	O3'-P-O5'	-9.90	85.18	104.00
231	W5	33	DA	O3'-P-O5'	-9.90	85.18	104.00
234	W9	17	DA	O3'-P-O5'	-9.90	85.18	104.00
11	AB	5929	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	742	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	1064	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	1399	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	4581	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	5144	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	7098	DA	O3'-P-O5'	-9.90	85.19	104.00
22	B9	31	DA	O3'-P-O5'	-9.90	85.19	104.00
60	F2	28	DA	O3'-P-O5'	-9.90	85.19	104.00
90	HC	11	DA	O3'-P-O5'	-9.90	85.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
99	I9	2	DA	O3'-P-O5'	-9.90	85.19	104.00
125	L1	4	DA	O3'-P-O5'	-9.90	85.19	104.00
130	L7	59	DA	O3'-P-O5'	-9.90	85.19	104.00
164	OC	9	DA	O3'-P-O5'	-9.90	85.19	104.00
156	O2	7	DA	O3'-P-O5'	-9.90	85.19	104.00
160	O7	39	DA	O3'-P-O5'	-9.90	85.19	104.00
212	U2	24	DA	O3'-P-O5'	-9.90	85.19	104.00
10	AA	9	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	1327	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	2577	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	3050	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	4115	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	5407	DA	O3'-P-O5'	-9.90	85.19	104.00
18	B5	16	DA	O3'-P-O5'	-9.90	85.19	104.00
52	E6	5	DA	O3'-P-O5'	-9.90	85.19	104.00
88	H9	18	DA	O3'-P-O5'	-9.90	85.19	104.00
125	L1	39	DA	O3'-P-O5'	-9.90	85.19	104.00
143	MA	23	DA	O3'-P-O5'	-9.90	85.19	104.00
171	P8	16	DA	O3'-P-O5'	-9.90	85.19	104.00
226	V9	29	DA	O3'-P-O5'	-9.90	85.19	104.00
1	A1	49	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	210	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	682	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	693	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	829	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	839	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	1051	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	1389	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	1505	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	1722	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	3935	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	4246	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	4876	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	5310	DA	O3'-P-O5'	-9.90	85.20	104.00
67	FA	28	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	5623	DA	O3'-P-O5'	-9.90	85.20	104.00
11	AB	5980	DA	O3'-P-O5'	-9.90	85.20	104.00
52	E6	36	DA	O3'-P-O5'	-9.90	85.20	104.00
78	GA	15	DA	O3'-P-O5'	-9.90	85.20	104.00
106	J5	1	DA	O3'-P-O5'	-9.90	85.19	104.00
107	J6	33	DA	O3'-P-O5'	-9.90	85.19	104.00
126	L2	7	DA	O3'-P-O5'	-9.90	85.20	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
127	L3	16	DA	O3'-P-O5'	-9.90	85.19	104.00
140	M7	7	DA	O3'-P-O5'	-9.90	85.20	104.00
156	O2	51	DA	O3'-P-O5'	-9.90	85.20	104.00
162	O9	6	DA	O3'-P-O5'	-9.90	85.20	104.00
219	UC	29	DA	O3'-P-O5'	-9.90	85.20	104.00
237	X7	14	DA	O3'-P-O5'	-9.90	85.19	104.00
11	AB	240	DA	O3'-P-O5'	-9.89	85.20	104.00
101	IC	21	DA	O3'-P-O5'	-9.89	85.20	104.00
105	J3	22	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	255	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	1238	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	1578	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	2052	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	2975	DA	O3'-P-O5'	-9.89	85.20	104.00
85	H6	8	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	4440	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	4547	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	4670	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	4861	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	4907	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	5603	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	5090	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	5990	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	6230	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	7224	DA	O3'-P-O5'	-9.89	85.20	104.00
27	C2	15	DA	O3'-P-O5'	-9.89	85.20	104.00
147	N3	22	DA	O3'-P-O5'	-9.89	85.20	104.00
30	C6	39	DA	O3'-P-O5'	-9.89	85.20	104.00
43	D8	16	DA	O3'-P-O5'	-9.89	85.20	104.00
73	G5	11	DA	O3'-P-O5'	-9.89	85.20	104.00
145	MD	31	DA	O3'-P-O5'	-9.89	85.20	104.00
195	S3	10	DA	O3'-P-O5'	-9.89	85.20	104.00
198	S8	44	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	523	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	342	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	736	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	1080	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	3673	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	6617	DA	O3'-P-O5'	-9.89	85.20	104.00
42	D7	12	DA	O3'-P-O5'	-9.89	85.20	104.00
177	Q3	7	DA	O3'-P-O5'	-9.89	85.20	104.00
11	AB	1809	DA	O3'-P-O5'	-9.89	85.21	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2331	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	2496	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	2582	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	4799	DA	O3'-P-O5'	-9.89	85.21	104.00
208	T9	8	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	4381	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	4930	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	5153	DA	O3'-P-O5'	-9.89	85.21	104.00
24	BC	29	DA	O3'-P-O5'	-9.89	85.21	104.00
30	C6	22	DA	O3'-P-O5'	-9.89	85.21	104.00
78	GA	5	DA	O3'-P-O5'	-9.89	85.20	104.00
79	GC	23	DA	O3'-P-O5'	-9.89	85.21	104.00
151	N8	4	DA	O3'-P-O5'	-9.89	85.21	104.00
158	O5	18	DA	O3'-P-O5'	-9.89	85.21	104.00
160	O7	32	DA	O3'-P-O5'	-9.89	85.21	104.00
184	QD	1	DA	O3'-P-O5'	-9.89	85.21	104.00
187	R5	8	DA	O3'-P-O5'	-9.89	85.21	104.00
194	S2	10	DA	O3'-P-O5'	-9.89	85.21	104.00
214	U5	4	DA	O3'-P-O5'	-9.89	85.21	104.00
227	VA	26	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	324	DA	O3'-P-O5'	-9.89	85.21	104.00
164	OC	7	DA	O3'-P-O5'	-9.89	85.21	104.00
8	A8	20	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	600	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	1996	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	3184	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	4359	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	4388	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	3609	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	4781	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	6251	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	4838	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	5524	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	5584	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	5715	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	6015	DA	O3'-P-O5'	-9.89	85.21	104.00
11	AB	6952	DA	O3'-P-O5'	-9.89	85.21	104.00
70	G1	9	DA	O3'-P-O5'	-9.89	85.21	104.00
156	O2	55	DA	O3'-P-O5'	-9.89	85.21	104.00
15	B2	7	DA	O3'-P-O5'	-9.89	85.21	104.00
31	C7	32	DA	O3'-P-O5'	-9.89	85.21	104.00
54	E8	20	DA	O3'-P-O5'	-9.89	85.21	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	EC	3	DA	O3'-P-O5'	-9.89	85.21	104.00
76	G8	13	DA	O3'-P-O5'	-9.89	85.21	104.00
84	H5	1	DA	O3'-P-O5'	-9.89	85.22	104.00
94	I3	4	DA	O3'-P-O5'	-9.89	85.21	104.00
99	I9	6	DA	O3'-P-O5'	-9.89	85.22	104.00
107	J6	17	DA	O3'-P-O5'	-9.89	85.21	104.00
109	J8	46	DA	O3'-P-O5'	-9.89	85.21	104.00
117	K5	18	DA	O3'-P-O5'	-9.89	85.22	104.00
145	MD	48	DA	O3'-P-O5'	-9.89	85.21	104.00
149	N6	18	DA	O3'-P-O5'	-9.89	85.22	104.00
149	N6	34	DA	O3'-P-O5'	-9.89	85.21	104.00
182	QA	16	DA	O3'-P-O5'	-9.89	85.22	104.00
199	S9	8	DA	O3'-P-O5'	-9.89	85.21	104.00
235	WD	7	DA	O3'-P-O5'	-9.89	85.21	104.00
238	X9	13	DA	O3'-P-O5'	-9.89	85.21	104.00
1	A1	9	DA	O3'-P-O5'	-9.88	85.22	104.00
7	A7	30	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	700	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	1940	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	2189	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	2616	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	2959	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	3338	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	3484	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	3496	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	3577	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	3853	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	4034	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	4887	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	6102	DA	O3'-P-O5'	-9.89	85.22	104.00
19	B6	11	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	4123	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	4451	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	5142	DA	O3'-P-O5'	-9.88	85.22	104.00
190	R9	43	DA	O3'-P-O5'	-9.89	85.22	104.00
237	X7	19	DA	O3'-P-O5'	-9.89	85.22	104.00
11	AB	5988	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	6073	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	6166	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	6363	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	6804	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	6950	DA	O3'-P-O5'	-9.88	85.22	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	C5	25	DA	O3'-P-O5'	-9.88	85.22	104.00
44	D9	9	DA	O3'-P-O5'	-9.88	85.22	104.00
61	F3	19	DA	O3'-P-O5'	-9.89	85.22	104.00
167	P3	18	DA	O3'-P-O5'	-9.89	85.22	104.00
221	V2	26	DA	O3'-P-O5'	-9.89	85.22	104.00
238	X9	34	DA	O3'-P-O5'	-9.89	85.22	104.00
44	D9	12	DA	O3'-P-O5'	-9.88	85.22	104.00
45	DA	17	DA	O3'-P-O5'	-9.88	85.22	104.00
85	H6	34	DA	O3'-P-O5'	-9.88	85.22	104.00
91	HD	23	DA	O3'-P-O5'	-9.88	85.22	104.00
114	K1	4	DA	O3'-P-O5'	-9.88	85.22	104.00
120	K8	13	DA	O3'-P-O5'	-9.88	85.22	104.00
120	K8	16	DA	O3'-P-O5'	-9.88	85.22	104.00
178	Q5	2	DA	O3'-P-O5'	-9.89	85.22	104.00
128	L5	17	DA	O3'-P-O5'	-9.88	85.22	104.00
132	L9	15	DA	O3'-P-O5'	-9.88	85.22	104.00
137	M3	31	DA	O3'-P-O5'	-9.88	85.22	104.00
147	N3	9	DA	O3'-P-O5'	-9.88	85.22	104.00
182	QA	4	DA	O3'-P-O5'	-9.88	85.22	104.00
183	QC	17	DA	O3'-P-O5'	-9.88	85.22	104.00
189	R8	18	DA	O3'-P-O5'	-9.88	85.22	104.00
224	V7	11	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	1149	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	1318	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	2465	DA	O3'-P-O5'	-9.88	85.22	104.00
209	TA	38	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	1729	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	1891	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	1920	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	3802	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	4267	DA	O3'-P-O5'	-9.88	85.22	104.00
93	I2	17	DA	O3'-P-O5'	-9.88	85.22	104.00
95	I5	2	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	2215	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	2382	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	3463	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	4051	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	4103	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	5219	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	5426	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	7244	DA	O3'-P-O5'	-9.88	85.22	104.00
59	F1	16	DA	O3'-P-O5'	-9.88	85.22	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
105	J3	29	DA	O3'-P-O5'	-9.88	85.22	104.00
173	PA	34	DA	O3'-P-O5'	-9.88	85.22	104.00
198	S8	36	DA	O3'-P-O5'	-9.88	85.22	104.00
11	AB	4027	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	5619	DA	O3'-P-O5'	-9.88	85.23	104.00
12	AC	6	DA	O3'-P-O5'	-9.88	85.22	104.00
69	FD	42	DA	O3'-P-O5'	-9.88	85.22	104.00
178	Q5	41	DA	O3'-P-O5'	-9.88	85.22	104.00
237	X7	16	DA	O3'-P-O5'	-9.88	85.22	104.00
14	B1	30	DA	O3'-P-O5'	-9.88	85.23	104.00
32	C8	33	DA	O3'-P-O5'	-9.88	85.23	104.00
35	CC	9	DA	O3'-P-O5'	-9.88	85.23	104.00
60	F2	33	DA	O3'-P-O5'	-9.88	85.22	104.00
84	H5	28	DA	O3'-P-O5'	-9.88	85.23	104.00
86	H7	5	DA	O3'-P-O5'	-9.88	85.22	104.00
93	I2	1	DA	O3'-P-O5'	-9.88	85.23	104.00
115	K2	28	DA	O3'-P-O5'	-9.88	85.23	104.00
139	M6	16	DA	O3'-P-O5'	-9.88	85.23	104.00
143	MA	17	DA	O3'-P-O5'	-9.88	85.23	104.00
156	O2	37	DA	O3'-P-O5'	-9.88	85.23	104.00
161	O8	33	DA	O3'-P-O5'	-9.88	85.23	104.00
173	PA	27	DA	O3'-P-O5'	-9.88	85.23	104.00
198	S8	16	DA	O3'-P-O5'	-9.88	85.22	104.00
205	T5	13	DA	O3'-P-O5'	-9.88	85.23	104.00
222	V3	15	DA	O3'-P-O5'	-9.88	85.23	104.00
225	V8	25	DA	O3'-P-O5'	-9.88	85.23	104.00
238	X9	42	DA	O3'-P-O5'	-9.88	85.23	104.00
3	A3	6	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	2953	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	514	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	528	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	669	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	4973	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	6027	DA	O3'-P-O5'	-9.88	85.23	104.00
75	G7	5	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	678	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	1403	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	1785	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	2146	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	2223	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	2433	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	3897	DA	O3'-P-O5'	-9.88	85.23	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4178	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	4342	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	6347	DA	O3'-P-O5'	-9.88	85.23	104.00
94	I3	18	DA	O3'-P-O5'	-9.88	85.23	104.00
235	WD	15	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	4378	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	4486	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	4879	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	5445	DA	O3'-P-O5'	-9.88	85.23	104.00
13	AD	17	DA	O3'-P-O5'	-9.88	85.23	104.00
43	D8	38	DA	O3'-P-O5'	-9.88	85.23	104.00
48	E1	29	DA	O3'-P-O5'	-9.88	85.23	104.00
63	F6	14	DA	O3'-P-O5'	-9.88	85.23	104.00
93	I2	12	DA	O3'-P-O5'	-9.88	85.23	104.00
89	HA	21	DA	O3'-P-O5'	-9.88	85.23	104.00
94	I3	51	DA	O3'-P-O5'	-9.88	85.23	104.00
113	JD	27	DA	O3'-P-O5'	-9.88	85.23	104.00
125	L1	27	DA	O3'-P-O5'	-9.88	85.23	104.00
156	O2	16	DA	O3'-P-O5'	-9.88	85.23	104.00
157	O3	5	DA	O3'-P-O5'	-9.88	85.23	104.00
173	PA	8	DA	O3'-P-O5'	-9.88	85.23	104.00
187	R5	38	DA	O3'-P-O5'	-9.88	85.23	104.00
189	R8	36	DA	O3'-P-O5'	-9.88	85.23	104.00
193	RD	7	DA	O3'-P-O5'	-9.88	85.23	104.00
197	S7	3	DA	O3'-P-O5'	-9.88	85.23	104.00
210	TC	26	DA	O3'-P-O5'	-9.88	85.23	104.00
211	TD	8	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	1208	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	1292	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	2352	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	3832	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	5201	DA	O3'-P-O5'	-9.88	85.23	104.00
35	CC	26	DA	O3'-P-O5'	-9.88	85.23	104.00
227	VA	2	DA	O3'-P-O5'	-9.88	85.24	104.00
11	AB	369	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	648	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	663	DA	O3'-P-O5'	-9.88	85.24	104.00
11	AB	1043	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	1368	DA	O3'-P-O5'	-9.88	85.24	104.00
11	AB	2040	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	2288	DA	O3'-P-O5'	-9.88	85.24	104.00
11	AB	2723	DA	O3'-P-O5'	-9.87	85.24	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3190	DA	O3'-P-O5'	-9.88	85.24	104.00
11	AB	6763	DA	O3'-P-O5'	-9.88	85.23	104.00
11	AB	4288	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	4634	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	4774	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	5995	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	6116	DA	O3'-P-O5'	-9.88	85.24	104.00
11	AB	6391	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	6743	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	7089	DA	O3'-P-O5'	-9.87	85.24	104.00
18	B5	24	DA	O3'-P-O5'	-9.88	85.24	104.00
29	C5	22	DA	O3'-P-O5'	-9.88	85.24	104.00
44	D9	3	DA	O3'-P-O5'	-9.88	85.24	104.00
46	DC	12	DA	O3'-P-O5'	-9.88	85.24	104.00
103	J1	1	DA	O3'-P-O5'	-9.88	85.24	104.00
122	KA	1	DA	O3'-P-O5'	-9.88	85.23	104.00
124	KD	13	DA	O3'-P-O5'	-9.88	85.23	104.00
141	M8	16	DA	O3'-P-O5'	-9.88	85.24	104.00
184	QD	3	DA	O3'-P-O5'	-9.88	85.23	104.00
205	T5	5	DA	O3'-P-O5'	-9.88	85.24	104.00
216	U8	15	DA	O3'-P-O5'	-9.88	85.24	104.00
227	VA	15	DA	O3'-P-O5'	-9.88	85.24	104.00
69	FD	15	DA	O3'-P-O5'	-9.87	85.24	104.00
111	JA	8	DA	O3'-P-O5'	-9.87	85.24	104.00
131	L8	23	DA	O3'-P-O5'	-9.87	85.24	104.00
143	MA	37	DA	O3'-P-O5'	-9.87	85.24	104.00
150	N7	17	DA	O3'-P-O5'	-9.87	85.24	104.00
152	N9	33	DA	O3'-P-O5'	-9.87	85.24	104.00
203	T2	20	DA	O3'-P-O5'	-9.88	85.24	104.00
6	A6	13	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	104	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	259	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	708	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	2449	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	3619	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	4121	DA	O3'-P-O5'	-9.87	85.24	104.00
47	DD	43	DA	O3'-P-O5'	-9.87	85.24	104.00
104	J2	6	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	3080	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	3259	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	3488	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	3874	DA	O3'-P-O5'	-9.87	85.25	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3937	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	3957	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	5211	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	5554	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	6443	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	6660	DA	O3'-P-O5'	-9.87	85.25	104.00
20	B7	7	DA	O3'-P-O5'	-9.87	85.24	104.00
29	C5	18	DA	O3'-P-O5'	-9.87	85.24	104.00
33	C9	11	DA	O3'-P-O5'	-9.87	85.24	104.00
149	N6	45	DA	O3'-P-O5'	-9.87	85.24	104.00
37	D1	23	DA	O3'-P-O5'	-9.87	85.25	104.00
41	D6	43	DA	O3'-P-O5'	-9.87	85.24	104.00
47	DD	9	DA	O3'-P-O5'	-9.87	85.25	104.00
48	E1	31	DA	O3'-P-O5'	-9.87	85.25	104.00
49	E2	42	DA	O3'-P-O5'	-9.87	85.24	104.00
51	E5	33	DA	O3'-P-O5'	-9.87	85.24	104.00
55	E9	39	DA	O3'-P-O5'	-9.87	85.25	104.00
62	F5	15	DA	O3'-P-O5'	-9.87	85.24	104.00
85	H6	27	DA	O3'-P-O5'	-9.87	85.24	104.00
114	K1	38	DA	O3'-P-O5'	-9.87	85.24	104.00
184	QD	6	DA	O3'-P-O5'	-9.87	85.24	104.00
143	MA	35	DA	O3'-P-O5'	-9.87	85.25	104.00
189	R8	22	DA	O3'-P-O5'	-9.87	85.24	104.00
196	S5	19	DA	O3'-P-O5'	-9.87	85.24	104.00
204	T3	42	DA	O3'-P-O5'	-9.87	85.24	104.00
230	W3	34	DA	O3'-P-O5'	-9.87	85.24	104.00
11	AB	349	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	1621	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	2644	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	2763	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	3373	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	3922	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	4896	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	5740	DA	O3'-P-O5'	-9.87	85.25	104.00
130	L7	41	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	199	DA	O3'-P-O5'	-9.87	85.25	104.00
158	O5	35	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	486	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	488	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	1117	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	2102	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	2371	DA	O3'-P-O5'	-9.87	85.25	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2562	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	2716	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	6898	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	2741	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	2745	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	4251	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	4631	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	6609	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	6702	DA	O3'-P-O5'	-9.87	85.25	104.00
26	C1	10	DA	O3'-P-O5'	-9.87	85.25	104.00
134	LC	6	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	3018	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	4563	DA	O3'-P-O5'	-9.87	85.25	104.00
94	I3	26	DA	O3'-P-O5'	-9.87	85.25	104.00
117	K5	9	DA	O3'-P-O5'	-9.87	85.25	104.00
126	L2	41	DA	O3'-P-O5'	-9.87	85.25	104.00
143	MA	25	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	4912	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	4990	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	5737	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	6288	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	6370	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	6376	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	6469	DA	O3'-P-O5'	-9.87	85.25	104.00
47	DD	32	DA	O3'-P-O5'	-9.87	85.25	104.00
90	HC	18	DA	O3'-P-O5'	-9.87	85.25	104.00
197	S7	1	DA	O3'-P-O5'	-9.87	85.25	104.00
38	D2	2	DA	O3'-P-O5'	-9.87	85.25	104.00
41	D6	15	DA	O3'-P-O5'	-9.87	85.25	104.00
48	E1	23	DA	O3'-P-O5'	-9.87	85.25	104.00
160	O7	28	DA	O3'-P-O5'	-9.87	85.25	104.00
167	P3	1	DA	O3'-P-O5'	-9.87	85.25	104.00
201	SC	17	DA	O3'-P-O5'	-9.87	85.25	104.00
71	G2	19	DA	O3'-P-O5'	-9.87	85.25	104.00
73	G5	19	DA	O3'-P-O5'	-9.87	85.25	104.00
156	O2	47	DA	O3'-P-O5'	-9.87	85.25	104.00
5	A5	29	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	47	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	292	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	298	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	4383	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	5333	DA	O3'-P-O5'	-9.87	85.25	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
87	H8	23	DA	O3'-P-O5'	-9.87	85.25	104.00
97	I7	19	DA	O3'-P-O5'	-9.87	85.25	104.00
119	K7	10	DA	O3'-P-O5'	-9.87	85.25	104.00
121	K9	29	DA	O3'-P-O5'	-9.87	85.25	104.00
126	L2	25	DA	O3'-P-O5'	-9.87	85.25	104.00
205	T5	15	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	467	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	504	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	1629	DA	O3'-P-O5'	-9.87	85.26	104.00
11	AB	3206	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	4499	DA	O3'-P-O5'	-9.87	85.26	104.00
122	KA	45	DA	O3'-P-O5'	-9.87	85.25	104.00
141	M8	8	DA	O3'-P-O5'	-9.87	85.25	104.00
181	Q9	24	DA	O3'-P-O5'	-9.87	85.25	104.00
220	UD	21	DA	O3'-P-O5'	-9.87	85.25	104.00
221	V2	5	DA	O3'-P-O5'	-9.87	85.25	104.00
11	AB	5148	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	5350	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	5889	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	6537	DA	O3'-P-O5'	-9.87	85.26	104.00
32	C8	21	DA	O3'-P-O5'	-9.86	85.26	104.00
52	E6	12	DA	O3'-P-O5'	-9.86	85.26	104.00
58	ED	16	DA	O3'-P-O5'	-9.86	85.26	104.00
104	J2	24	DA	O3'-P-O5'	-9.86	85.26	104.00
133	LA	16	DA	O3'-P-O5'	-9.86	85.26	104.00
141	M8	26	DA	O3'-P-O5'	-9.86	85.26	104.00
156	O2	32	DA	O3'-P-O5'	-9.86	85.26	104.00
202	SD	25	DA	O3'-P-O5'	-9.87	85.26	104.00
203	T2	27	DA	O3'-P-O5'	-9.86	85.26	104.00
206	T7	19	DA	O3'-P-O5'	-9.87	85.26	104.00
228	VC	4	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	478	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	1017	DA	O3'-P-O5'	-9.86	85.26	104.00
106	J5	19	DA	O3'-P-O5'	-9.86	85.26	104.00
1	A1	27	DA	O3'-P-O5'	-9.86	85.27	104.00
1	A1	44	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	274	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	5489	DA	O3'-P-O5'	-9.86	85.26	104.00
202	SD	11	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	1036	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	1195	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	3358	DA	O3'-P-O5'	-9.86	85.26	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4059	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	4312	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	5121	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	5127	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	5475	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	5900	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	6553	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	6846	DA	O3'-P-O5'	-9.86	85.26	104.00
21	B8	2	DA	O3'-P-O5'	-9.86	85.27	104.00
27	C2	10	DA	O3'-P-O5'	-9.86	85.26	104.00
37	D1	41	DA	O3'-P-O5'	-9.86	85.26	104.00
41	D6	25	DA	O3'-P-O5'	-9.86	85.26	104.00
48	E1	15	DA	O3'-P-O5'	-9.86	85.26	104.00
63	F6	20	DA	O3'-P-O5'	-9.86	85.26	104.00
70	G1	2	DA	O3'-P-O5'	-9.86	85.26	104.00
102	ID	11	DA	O3'-P-O5'	-9.86	85.26	104.00
106	J5	22	DA	O3'-P-O5'	-9.86	85.26	104.00
112	JC	9	DA	O3'-P-O5'	-9.86	85.26	104.00
122	KA	39	DA	O3'-P-O5'	-9.86	85.26	104.00
161	O8	19	DA	O3'-P-O5'	-9.86	85.26	104.00
165	OD	15	DA	O3'-P-O5'	-9.86	85.26	104.00
174	PC	5	DA	O3'-P-O5'	-9.86	85.26	104.00
201	SC	8	DA	O3'-P-O5'	-9.86	85.26	104.00
207	T8	15	DA	O3'-P-O5'	-9.86	85.26	104.00
229	VD	14	DA	O3'-P-O5'	-9.86	85.26	104.00
11	AB	77	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	462	DA	O3'-P-O5'	-9.86	85.27	104.00
1	A1	25	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	354	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	748	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	5415	DA	O3'-P-O5'	-9.86	85.27	104.00
38	D2	8	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	763	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	997	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	1484	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	2447	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	2982	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	3877	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	4257	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	4716	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	5038	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	5630	DA	O3'-P-O5'	-9.86	85.27	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
137	M3	23	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	6683	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	6972	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	7113	DA	O3'-P-O5'	-9.86	85.27	104.00
26	C1	26	DA	O3'-P-O5'	-9.86	85.27	104.00
77	G9	4	DA	O3'-P-O5'	-9.86	85.27	104.00
82	H2	24	DA	O3'-P-O5'	-9.86	85.27	104.00
104	J2	36	DA	O3'-P-O5'	-9.86	85.27	104.00
116	K3	7	DA	O3'-P-O5'	-9.86	85.27	104.00
117	K5	7	DA	O3'-P-O5'	-9.86	85.27	104.00
138	M5	3	DA	O3'-P-O5'	-9.86	85.27	104.00
165	OD	26	DA	O3'-P-O5'	-9.86	85.27	104.00
165	OD	38	DA	O3'-P-O5'	-9.86	85.27	104.00
192	RC	19	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	3228	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	3721	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	5189	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	6329	DA	O3'-P-O5'	-9.86	85.27	104.00
126	L2	38	DA	O3'-P-O5'	-9.86	85.27	104.00
216	U8	12	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	6987	DA	O3'-P-O5'	-9.86	85.28	104.00
22	B9	37	DA	O3'-P-O5'	-9.86	85.28	104.00
66	F9	11	DA	O3'-P-O5'	-9.86	85.27	104.00
75	G7	9	DA	O3'-P-O5'	-9.86	85.28	104.00
79	GC	10	DA	O3'-P-O5'	-9.86	85.27	104.00
98	I8	8	DA	O3'-P-O5'	-9.86	85.27	104.00
148	N5	20	DA	O3'-P-O5'	-9.86	85.28	104.00
154	NC	22	DA	O3'-P-O5'	-9.86	85.28	104.00
159	O6	22	DA	O3'-P-O5'	-9.86	85.28	104.00
165	OD	19	DA	O3'-P-O5'	-9.86	85.27	104.00
181	Q9	6	DA	O3'-P-O5'	-9.86	85.27	104.00
198	S8	32	DA	O3'-P-O5'	-9.86	85.27	104.00
11	AB	1866	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	5258	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	543	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	2637	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	6705	DA	O3'-P-O5'	-9.85	85.28	104.00
36	CD	10	DA	O3'-P-O5'	-9.85	85.28	104.00
37	D1	20	DA	O3'-P-O5'	-9.85	85.28	104.00
119	K7	16	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	2011	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	2387	DA	O3'-P-O5'	-9.85	85.28	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2896	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	3290	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	4372	DA	O3'-P-O5'	-9.85	85.28	104.00
42	D7	16	DA	O3'-P-O5'	-9.85	85.28	104.00
97	I7	9	DA	O3'-P-O5'	-9.85	85.28	104.00
153	NA	5	DA	O3'-P-O5'	-9.85	85.28	104.00
176	Q2	13	DA	O3'-P-O5'	-9.85	85.28	104.00
207	T8	11	DA	O3'-P-O5'	-9.85	85.28	104.00
223	V5	29	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	4704	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	4816	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	5344	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	5851	DA	O3'-P-O5'	-9.85	85.28	104.00
25	BD	5	DA	O3'-P-O5'	-9.85	85.28	104.00
121	K9	23	DA	O3'-P-O5'	-9.85	85.28	104.00
122	KA	24	DA	O3'-P-O5'	-9.85	85.28	104.00
158	O5	25	DA	O3'-P-O5'	-9.85	85.28	104.00
160	O7	10	DA	O3'-P-O5'	-9.85	85.28	104.00
175	PD	9	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	2994	DA	O3'-P-O5'	-9.85	85.29	104.00
11	AB	5827	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	5830	DA	O3'-P-O5'	-9.85	85.29	104.00
11	AB	6926	DA	O3'-P-O5'	-9.85	85.28	104.00
75	G7	21	DA	O3'-P-O5'	-9.85	85.28	104.00
97	I7	6	DA	O3'-P-O5'	-9.85	85.29	104.00
100	IA	10	DA	O3'-P-O5'	-9.85	85.29	104.00
103	J1	6	DA	O3'-P-O5'	-9.85	85.29	104.00
108	J7	41	DA	O3'-P-O5'	-9.85	85.29	104.00
144	MC	2	DA	O3'-P-O5'	-9.85	85.29	104.00
181	Q9	21	DA	O3'-P-O5'	-9.85	85.28	104.00
234	W9	4	DA	O3'-P-O5'	-9.85	85.28	104.00
11	AB	98	DA	O3'-P-O5'	-9.85	85.29	104.00
11	AB	271	DA	O3'-P-O5'	-9.85	85.29	104.00
11	AB	2165	DA	O3'-P-O5'	-9.85	85.29	104.00
11	AB	5109	DA	O3'-P-O5'	-9.85	85.29	104.00
11	AB	279	DA	O3'-P-O5'	-9.85	85.30	104.00
11	AB	4566	DA	O3'-P-O5'	-9.85	85.29	104.00
11	AB	4587	DA	O3'-P-O5'	-9.85	85.29	104.00
25	BD	8	DA	O3'-P-O5'	-9.85	85.29	104.00
210	TC	21	DA	O3'-P-O5'	-9.85	85.29	104.00
11	AB	6844	DA	O3'-P-O5'	-9.85	85.30	104.00
41	D6	12	DA	O3'-P-O5'	-9.85	85.29	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
90	HC	22	DA	O3'-P-O5'	-9.85	85.29	104.00
104	J2	9	DA	O3'-P-O5'	-9.85	85.30	104.00
230	W3	15	DA	O3'-P-O5'	-9.85	85.30	104.00
11	AB	2241	DA	O3'-P-O5'	-9.84	85.30	104.00
11	AB	5962	DA	O3'-P-O5'	-9.84	85.30	104.00
196	S5	15	DA	O3'-P-O5'	-9.84	85.30	104.00
11	AB	4016	DA	O3'-P-O5'	-9.84	85.30	104.00
35	CC	33	DA	O3'-P-O5'	-9.84	85.30	104.00
128	L5	19	DA	O3'-P-O5'	-9.84	85.30	104.00
162	O9	15	DA	O3'-P-O5'	-9.84	85.30	104.00
28	C3	5	DA	O3'-P-O5'	-9.84	85.30	104.00
109	J8	8	DA	O3'-P-O5'	-9.84	85.30	104.00
164	OC	22	DA	O3'-P-O5'	-9.84	85.30	104.00
11	AB	3377	DA	O3'-P-O5'	-9.84	85.31	104.00
43	D8	22	DA	O3'-P-O5'	-9.84	85.31	104.00
123	KC	24	DA	O3'-P-O5'	-9.84	85.31	104.00
148	N5	23	DA	O3'-P-O5'	-9.84	85.31	104.00
74	G6	11	DA	O3'-P-O5'	-9.84	85.31	104.00
115	K2	35	DA	O3'-P-O5'	-9.84	85.31	104.00
11	AB	148	DA	O3'-P-O5'	-9.82	85.34	104.00
11	AB	4646	DA	O3'-P-O5'	-9.82	85.34	104.00
11	AB	5371	DA	O3'-P-O5'	-9.81	85.35	104.00
11	AB	2228	DA	O3'-P-O5'	-9.80	85.38	104.00
11	AB	5375	DT	O3'-P-O5'	-9.80	85.39	104.00
11	AB	706	DA	O3'-P-O5'	-9.79	85.39	104.00
11	AB	7163	DA	O3'-P-O5'	-9.79	85.40	104.00
11	AB	5935	DT	O3'-P-O5'	-9.79	85.41	104.00
10	AA	7	DT	O3'-P-O5'	-9.78	85.42	104.00
11	AB	6181	DT	O3'-P-O5'	-9.78	85.41	104.00
11	AB	4728	DT	O3'-P-O5'	-9.78	85.42	104.00
30	C6	13	DT	O3'-P-O5'	-9.78	85.42	104.00
11	AB	6570	DT	O3'-P-O5'	-9.78	85.42	104.00
79	GC	18	DG	P-O3'-C3'	-9.78	107.97	119.70
11	AB	604	DT	O3'-P-O5'	-9.78	85.43	104.00
11	AB	5510	DT	O3'-P-O5'	-9.78	85.43	104.00
200	SA	24	DT	O3'-P-O5'	-9.78	85.43	104.00
11	AB	394	DT	O3'-P-O5'	-9.77	85.43	104.00
11	AB	842	DT	O3'-P-O5'	-9.77	85.43	104.00
11	AB	3013	DG	P-O3'-C3'	-9.77	107.97	119.70
11	AB	3165	DT	O3'-P-O5'	-9.77	85.43	104.00
11	AB	5530	DT	O3'-P-O5'	-9.77	85.43	104.00
45	DA	24	DT	O3'-P-O5'	-9.77	85.44	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
205	T5	7	DT	O3'-P-O5'	-9.77	85.43	104.00
11	AB	234	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	720	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	966	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	2024	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	6720	DT	O3'-P-O5'	-9.77	85.44	104.00
129	L6	20	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	2962	DG	P-O3'-C3'	-9.77	107.98	119.70
11	AB	3300	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	5721	DT	O3'-P-O5'	-9.77	85.44	104.00
82	H2	33	DT	O3'-P-O5'	-9.77	85.44	104.00
134	LC	20	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	494	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	903	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	2651	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	3208	DG	P-O3'-C3'	-9.77	107.98	119.70
11	AB	3511	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	3826	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	5139	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	5396	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	5925	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	6138	DT	O3'-P-O5'	-9.77	85.44	104.00
219	UC	23	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	5698	DT	O3'-P-O5'	-9.77	85.45	104.00
11	AB	5700	DT	O3'-P-O5'	-9.77	85.45	104.00
11	AB	6411	DT	O3'-P-O5'	-9.77	85.45	104.00
11	AB	6818	DT	O3'-P-O5'	-9.77	85.44	104.00
11	AB	6960	DT	O3'-P-O5'	-9.77	85.44	104.00
131	L8	6	DT	O3'-P-O5'	-9.77	85.45	104.00
3	A3	17	DG	P-O3'-C3'	-9.76	107.98	119.70
5	A5	6	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	6275	DT	O3'-P-O5'	-9.76	85.45	104.00
56	EA	17	DT	O3'-P-O5'	-9.76	85.45	104.00
145	MD	11	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	249	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	287	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	1122	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	1254	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	575	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	2265	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	3112	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	3342	DT	O3'-P-O5'	-9.76	85.45	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
151	N8	8	DT	O3'-P-O5'	-9.76	85.45	104.00
161	O8	15	DT	O3'-P-O5'	-9.76	85.45	104.00
217	U9	15	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	2608	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	3318	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	3564	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	3662	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	6432	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	6477	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	7238	DT	O3'-P-O5'	-9.76	85.45	104.00
167	P3	7	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	6947	DT	O3'-P-O5'	-9.76	85.45	104.00
13	AD	8	DT	O3'-P-O5'	-9.76	85.45	104.00
61	F3	3	DT	O3'-P-O5'	-9.76	85.45	104.00
148	N5	10	DT	O3'-P-O5'	-9.76	85.45	104.00
156	O2	1	DT	O3'-P-O5'	-9.76	85.45	104.00
171	P8	6	DT	O3'-P-O5'	-9.76	85.45	104.00
4	A4	16	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	585	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	1225	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	1694	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	3120	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	3186	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	4405	DT	O3'-P-O5'	-9.76	85.45	104.00
84	H5	30	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	1656	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	1832	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	2204	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	4882	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	5158	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	6791	DT	O3'-P-O5'	-9.76	85.45	104.00
53	E7	1	DG	P-O3'-C3'	-9.76	107.99	119.70
11	AB	2672	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	5099	DG	P-O3'-C3'	-9.76	107.99	119.70
11	AB	7181	DT	O3'-P-O5'	-9.76	85.45	104.00
11	AB	5528	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	6689	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	6722	DT	O3'-P-O5'	-9.76	85.46	104.00
36	CD	19	DG	P-O3'-C3'	-9.76	107.99	119.70
72	G3	12	DT	O3'-P-O5'	-9.76	85.45	104.00
98	I8	39	DG	P-O3'-C3'	-9.76	107.99	119.70
103	J1	16	DT	O3'-P-O5'	-9.76	85.45	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
117	K5	12	DT	O3'-P-O5'	-9.76	85.45	104.00
118	K6	14	DT	O3'-P-O5'	-9.76	85.46	104.00
172	P9	24	DT	O3'-P-O5'	-9.76	85.45	104.00
187	R5	30	DT	O3'-P-O5'	-9.76	85.45	104.00
187	R5	32	DT	O3'-P-O5'	-9.76	85.45	104.00
210	TC	7	DT	O3'-P-O5'	-9.76	85.46	104.00
215	U7	6	DT	O3'-P-O5'	-9.76	85.46	104.00
224	V7	14	DT	O3'-P-O5'	-9.76	85.46	104.00
7	A7	5	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	190	DT	O3'-P-O5'	-9.76	85.46	104.00
3	A3	1	DT	O3'-P-O5'	-9.76	85.47	104.00
11	AB	195	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	847	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	3527	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	3974	DT	O3'-P-O5'	-9.76	85.46	104.00
22	B9	19	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	1108	DT	O3'-P-O5'	-9.76	85.47	104.00
11	AB	1242	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	1408	DG	P-O3'-C3'	-9.76	107.99	119.70
11	AB	3046	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	3139	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	3940	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	4182	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	4593	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	4734	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	5173	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	5512	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	6409	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	6484	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	6550	DT	O3'-P-O5'	-9.76	85.46	104.00
72	G3	9	DT	O3'-P-O5'	-9.76	85.46	104.00
114	K1	41	DT	O3'-P-O5'	-9.76	85.46	104.00
205	T5	19	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	1561	DT	O3'-P-O5'	-9.76	85.47	104.00
11	AB	1692	DT	O3'-P-O5'	-9.76	85.47	104.00
11	AB	2397	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	3451	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	6806	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	6885	DT	O3'-P-O5'	-9.76	85.46	104.00
148	N5	13	DT	O3'-P-O5'	-9.76	85.46	104.00
171	P8	10	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	2822	DT	O3'-P-O5'	-9.76	85.47	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2836	DT	O3'-P-O5'	-9.76	85.47	104.00
11	AB	2839	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	3148	DT	O3'-P-O5'	-9.76	85.47	104.00
11	AB	4770	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	6502	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	6725	DT	O3'-P-O5'	-9.76	85.46	104.00
11	AB	7226	DT	O3'-P-O5'	-9.76	85.47	104.00
20	B7	16	DT	O3'-P-O5'	-9.76	85.47	104.00
72	G3	1	DT	O3'-P-O5'	-9.76	85.47	104.00
126	L2	18	DT	O3'-P-O5'	-9.76	85.47	104.00
179	Q7	11	DT	O3'-P-O5'	-9.76	85.47	104.00
209	TA	23	DT	O3'-P-O5'	-9.76	85.46	104.00
211	TD	37	DT	O3'-P-O5'	-9.76	85.47	104.00
11	AB	520	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	933	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	1713	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	3283	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	3494	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	3453	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	3829	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	4000	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	4543	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	4641	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	5094	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	6644	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	6741	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	5588	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	7020	DT	O3'-P-O5'	-9.75	85.47	104.00
32	C8	43	DT	O3'-P-O5'	-9.75	85.47	104.00
75	G7	14	DT	O3'-P-O5'	-9.75	85.47	104.00
93	I2	8	DT	O3'-P-O5'	-9.75	85.47	104.00
119	K7	7	DT	O3'-P-O5'	-9.75	85.47	104.00
163	OA	13	DT	O3'-P-O5'	-9.75	85.47	104.00
161	O8	42	DT	O3'-P-O5'	-9.75	85.47	104.00
164	OC	5	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	511	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	1524	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	1737	DT	O3'-P-O5'	-9.75	85.47	104.00
23	BA	26	DT	O3'-P-O5'	-9.75	85.47	104.00
34	CA	14	DT	O3'-P-O5'	-9.75	85.47	104.00
49	E2	12	DT	O3'-P-O5'	-9.75	85.47	104.00
57	EC	1	DT	O3'-P-O5'	-9.75	85.47	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	57	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	836	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	1305	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	1498	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	1464	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	2096	DG	P-O3'-C3'	-9.75	108.00	119.70
11	AB	2210	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	2612	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	3002	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	3268	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	3345	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	4595	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	4147	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	4828	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	4933	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	5281	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	5599	DT	O3'-P-O5'	-9.75	85.47	104.00
11	AB	5862	DT	O3'-P-O5'	-9.75	85.47	104.00
18	B5	36	DT	O3'-P-O5'	-9.75	85.47	104.00
58	ED	35	DT	O3'-P-O5'	-9.75	85.47	104.00
67	FA	11	DT	O3'-P-O5'	-9.75	85.47	104.00
156	O2	22	DT	O3'-P-O5'	-9.75	85.47	104.00
18	B5	1	DT	O3'-P-O5'	-9.75	85.48	104.00
33	C9	3	DT	O3'-P-O5'	-9.75	85.48	104.00
65	F8	5	DT	O3'-P-O5'	-9.75	85.48	104.00
83	H3	27	DT	O3'-P-O5'	-9.75	85.47	104.00
87	H8	15	DG	P-O3'-C3'	-9.75	108.00	119.70
91	HD	10	DT	O3'-P-O5'	-9.75	85.47	104.00
103	J1	22	DT	O3'-P-O5'	-9.75	85.48	104.00
145	MD	3	DT	O3'-P-O5'	-9.75	85.47	104.00
155	ND	4	DT	O3'-P-O5'	-9.75	85.47	104.00
160	O7	44	DT	O3'-P-O5'	-9.75	85.47	104.00
167	P3	34	DT	O3'-P-O5'	-9.75	85.47	104.00
170	P7	6	DT	O3'-P-O5'	-9.75	85.47	104.00
161	O8	37	DT	O3'-P-O5'	-9.75	85.48	104.00
177	Q3	17	DT	O3'-P-O5'	-9.75	85.47	104.00
182	QA	24	DG	P-O3'-C3'	-9.75	108.00	119.70
5	A5	33	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	671	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	3295	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	6271	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	417	DT	O3'-P-O5'	-9.75	85.48	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	569	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	623	DG	P-O3'-C3'	-9.75	108.00	119.70
11	AB	777	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	918	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	960	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	1229	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	1250	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	1547	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	2971	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	1265	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	1871	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	2250	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	2691	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	3858	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	4346	DT	O3'-P-O5'	-9.75	85.48	104.00
237	X7	11	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	3694	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	3942	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	5460	DT	O3'-P-O5'	-9.75	85.48	104.00
99	I9	15	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	4254	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	5917	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	5983	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	6104	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	6839	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	7010	DT	O3'-P-O5'	-9.75	85.48	104.00
36	CD	25	DT	O3'-P-O5'	-9.75	85.48	104.00
111	JA	10	DG	P-O3'-C3'	-9.75	108.00	119.70
26	C1	13	DT	O3'-P-O5'	-9.75	85.48	104.00
36	CD	22	DT	O3'-P-O5'	-9.75	85.48	104.00
54	E8	33	DT	O3'-P-O5'	-9.75	85.48	104.00
55	E9	16	DT	O3'-P-O5'	-9.75	85.48	104.00
56	EA	5	DG	P-O3'-C3'	-9.75	108.00	119.70
111	JA	16	DT	O3'-P-O5'	-9.75	85.48	104.00
114	K1	23	DT	O3'-P-O5'	-9.75	85.48	104.00
127	L3	18	DT	O3'-P-O5'	-9.75	85.48	104.00
128	L5	5	DT	O3'-P-O5'	-9.75	85.48	104.00
213	U3	3	DT	O3'-P-O5'	-9.75	85.48	104.00
149	N6	10	DT	O3'-P-O5'	-9.75	85.48	104.00
156	O2	4	DT	O3'-P-O5'	-9.75	85.48	104.00
156	O2	13	DT	O3'-P-O5'	-9.75	85.48	104.00
183	QC	6	DT	O3'-P-O5'	-9.75	85.48	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
168	P5	15	DG	P-O3'-C3'	-9.75	108.00	119.70
207	T8	20	DT	O3'-P-O5'	-9.75	85.48	104.00
210	TC	15	DT	O3'-P-O5'	-9.75	85.48	104.00
220	UD	12	DT	O3'-P-O5'	-9.75	85.48	104.00
220	UD	17	DT	O3'-P-O5'	-9.75	85.48	104.00
223	V5	4	DT	O3'-P-O5'	-9.75	85.48	104.00
11	AB	311	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	948	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	1047	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	1435	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	1467	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	1580	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	1931	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	2175	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	2528	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	2553	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	2845	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	2968	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	3644	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	3949	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	5632	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	7116	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	7167	DT	O3'-P-O5'	-9.74	85.48	104.00
21	B8	19	DT	O3'-P-O5'	-9.74	85.49	104.00
54	E8	14	DT	O3'-P-O5'	-9.74	85.49	104.00
82	H2	17	DT	O3'-P-O5'	-9.74	85.48	104.00
230	W3	45	DT	O3'-P-O5'	-9.74	85.48	104.00
1	A1	51	DT	O3'-P-O5'	-9.74	85.49	104.00
7	A7	40	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	185	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	563	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	1953	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	2058	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	3253	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	3436	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	2099	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	2739	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	2799	DG	P-O3'-C3'	-9.74	108.01	119.70
11	AB	3834	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	5458	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	5470	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	6076	DT	O3'-P-O5'	-9.74	85.49	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6240	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	6612	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	6796	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	6995	DT	O3'-P-O5'	-9.74	85.48	104.00
17	B4	19	DT	O3'-P-O5'	-9.74	85.48	104.00
35	CC	14	DT	O3'-P-O5'	-9.74	85.49	104.00
59	F1	12	DT	O3'-P-O5'	-9.74	85.48	104.00
154	NC	35	DG	P-O3'-C3'	-9.74	108.01	119.70
228	VC	17	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	3518	DG	P-O3'-C3'	-9.74	108.01	119.70
11	AB	4301	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	4385	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	4695	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	4941	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	5032	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	5074	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	5378	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	5450	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	5479	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	5601	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	6061	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	7140	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	7171	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	7185	DT	O3'-P-O5'	-9.74	85.49	104.00
64	F7	16	DT	O3'-P-O5'	-9.74	85.49	104.00
95	I5	6	DT	O3'-P-O5'	-9.74	85.49	104.00
120	K8	20	DT	O3'-P-O5'	-9.74	85.49	104.00
137	M3	28	DT	O3'-P-O5'	-9.74	85.49	104.00
140	M7	5	DT	O3'-P-O5'	-9.74	85.49	104.00
146	N2	4	DT	O3'-P-O5'	-9.74	85.49	104.00
177	Q3	5	DG	P-O3'-C3'	-9.74	108.01	119.70
186	R3	17	DT	O3'-P-O5'	-9.74	85.49	104.00
197	S7	14	DT	O3'-P-O5'	-9.74	85.49	104.00
198	S8	13	DT	O3'-P-O5'	-9.74	85.49	104.00
214	U5	25	DT	O3'-P-O5'	-9.74	85.49	104.00
231	W5	31	DT	O3'-P-O5'	-9.74	85.48	104.00
11	AB	201	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	593	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	717	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	1555	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	1645	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	6106	DT	O3'-P-O5'	-9.74	85.49	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B1	40	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	1184	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	2026	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	2520	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	3920	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	4918	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	6534	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	7053	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	7076	DT	O3'-P-O5'	-9.74	85.49	104.00
45	DA	9	DG	P-O3'-C3'	-9.74	108.01	119.70
47	DD	7	DT	O3'-P-O5'	-9.74	85.49	104.00
54	E8	17	DT	O3'-P-O5'	-9.74	85.49	104.00
76	G8	15	DG	P-O3'-C3'	-9.74	108.01	119.70
149	N6	24	DG	P-O3'-C3'	-9.74	108.01	119.70
11	AB	2683	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	2991	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	3523	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	3711	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	4210	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	4505	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	4691	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	5213	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	7057	DT	O3'-P-O5'	-9.74	85.49	104.00
62	F5	6	DT	O3'-P-O5'	-9.74	85.49	104.00
171	P8	26	DT	O3'-P-O5'	-9.74	85.49	104.00
181	Q9	14	DT	O3'-P-O5'	-9.74	85.49	104.00
11	AB	5100	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	6133	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	6851	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	6870	DG	P-O3'-C3'	-9.74	108.01	119.70
11	AB	6875	DT	O3'-P-O5'	-9.74	85.50	104.00
58	ED	10	DT	O3'-P-O5'	-9.74	85.50	104.00
68	FC	14	DG	P-O3'-C3'	-9.74	108.01	119.70
72	G3	18	DT	O3'-P-O5'	-9.74	85.49	104.00
93	I2	47	DT	O3'-P-O5'	-9.74	85.50	104.00
130	L7	31	DT	O3'-P-O5'	-9.74	85.50	104.00
140	M7	1	DT	O3'-P-O5'	-9.74	85.50	104.00
149	N6	6	DT	O3'-P-O5'	-9.74	85.50	104.00
184	QD	19	DT	O3'-P-O5'	-9.74	85.50	104.00
209	TA	40	DT	O3'-P-O5'	-9.74	85.50	104.00
212	U2	18	DT	O3'-P-O5'	-9.74	85.50	104.00
214	U5	2	DT	O3'-P-O5'	-9.74	85.50	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
221	V2	18	DT	O3'-P-O5'	-9.74	85.50	104.00
223	V5	24	DT	O3'-P-O5'	-9.74	85.50	104.00
235	WD	21	DT	O3'-P-O5'	-9.74	85.50	104.00
7	A7	36	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	80	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	223	DG	P-O3'-C3'	-9.74	108.02	119.70
11	AB	447	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	964	DG	P-O3'-C3'	-9.74	108.01	119.70
11	AB	1352	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	1491	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	1886	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	4006	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	4040	DT	O3'-P-O5'	-9.74	85.50	104.00
39	D3	5	DT	O3'-P-O5'	-9.74	85.50	104.00
59	F1	6	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	710	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	1071	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	1473	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	1477	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	2276	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	2880	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	3615	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	4284	DG	P-O3'-C3'	-9.74	108.01	119.70
11	AB	4501	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	5545	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	5788	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	6358	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	6465	DT	O3'-P-O5'	-9.74	85.50	104.00
82	H2	28	DT	O3'-P-O5'	-9.74	85.50	104.00
93	I2	39	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	3748	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	4529	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	5676	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	6185	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	6313	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	6579	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	6604	DT	O3'-P-O5'	-9.74	85.50	104.00
11	AB	6865	DT	O3'-P-O5'	-9.74	85.50	104.00
31	C7	16	DT	O3'-P-O5'	-9.74	85.50	104.00
37	D1	27	DT	O3'-P-O5'	-9.74	85.50	104.00
82	H2	7	DT	O3'-P-O5'	-9.74	85.50	104.00
107	J6	26	DT	O3'-P-O5'	-9.74	85.50	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
149	N6	38	DT	O3'-P-O5'	-9.74	85.50	104.00
104	J2	31	DT	O3'-P-O5'	-9.74	85.50	104.00
128	L5	2	DT	O3'-P-O5'	-9.74	85.50	104.00
164	OC	19	DT	O3'-P-O5'	-9.74	85.50	104.00
178	Q5	36	DT	O3'-P-O5'	-9.74	85.50	104.00
180	Q8	20	DT	O3'-P-O5'	-9.74	85.50	104.00
230	W3	30	DT	O3'-P-O5'	-9.74	85.50	104.00
128	L5	13	DT	O3'-P-O5'	-9.74	85.50	104.00
178	Q5	30	DG	P-O3'-C3'	-9.74	108.02	119.70
192	RC	22	DT	O3'-P-O5'	-9.74	85.50	104.00
192	RC	26	DT	O3'-P-O5'	-9.74	85.50	104.00
197	S7	19	DT	O3'-P-O5'	-9.74	85.50	104.00
199	S9	14	DT	O3'-P-O5'	-9.74	85.50	104.00
204	T3	12	DT	O3'-P-O5'	-9.74	85.50	104.00
208	T9	17	DT	O3'-P-O5'	-9.74	85.50	104.00
214	U5	38	DG	P-O3'-C3'	-9.74	108.02	119.70
215	U7	21	DG	P-O3'-C3'	-9.74	108.02	119.70
238	X9	32	DT	O3'-P-O5'	-9.74	85.50	104.00
232	W7	16	DT	O3'-P-O5'	-9.74	85.50	104.00
7	A7	22	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	6	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	2937	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	3084	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	3989	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	4869	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	611	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	812	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	825	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	1167	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	946	DG	P-O3'-C3'	-9.73	108.02	119.70
11	AB	1690	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	1959	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	2108	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	2424	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	2610	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	2646	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	3158	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	2769	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	2901	DG	P-O3'-C3'	-9.73	108.02	119.70
11	AB	2905	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	2977	DG	P-O3'-C3'	-9.73	108.02	119.70
11	AB	3010	DT	O3'-P-O5'	-9.73	85.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3144	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	3210	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	3680	DG	P-O3'-C3'	-9.73	108.02	119.70
11	AB	3717	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	4094	DG	P-O3'-C3'	-9.73	108.02	119.70
11	AB	4204	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	4805	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	3903	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	4173	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	4985	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	5508	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	6100	DG	P-O3'-C3'	-9.73	108.02	119.70
11	AB	6192	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	6334	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	6429	DT	O3'-P-O5'	-9.73	85.50	104.00
11	AB	6658	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	7204	DT	O3'-P-O5'	-9.73	85.51	104.00
14	B1	4	DT	O3'-P-O5'	-9.73	85.51	104.00
23	BA	7	DT	O3'-P-O5'	-9.73	85.50	104.00
32	C8	42	DG	P-O3'-C3'	-9.73	108.02	119.70
39	D3	12	DT	O3'-P-O5'	-9.73	85.50	104.00
43	D8	30	DT	O3'-P-O5'	-9.73	85.51	104.00
51	E5	9	DT	O3'-P-O5'	-9.73	85.50	104.00
62	F5	13	DT	O3'-P-O5'	-9.73	85.50	104.00
79	GC	15	DT	O3'-P-O5'	-9.73	85.50	104.00
82	H2	11	DT	O3'-P-O5'	-9.73	85.50	104.00
238	X9	11	DT	O3'-P-O5'	-9.73	85.50	104.00
62	F5	32	DT	O3'-P-O5'	-9.73	85.51	104.00
79	GC	1	DT	O3'-P-O5'	-9.73	85.51	104.00
88	H9	4	DT	O3'-P-O5'	-9.73	85.51	104.00
93	I2	4	DT	O3'-P-O5'	-9.73	85.51	104.00
101	IC	26	DT	O3'-P-O5'	-9.73	85.51	104.00
133	LA	14	DT	O3'-P-O5'	-9.73	85.50	104.00
139	M6	9	DT	O3'-P-O5'	-9.73	85.51	104.00
145	MD	21	DT	O3'-P-O5'	-9.73	85.51	104.00
149	N6	41	DT	O3'-P-O5'	-9.73	85.51	104.00
194	S2	1	DT	O3'-P-O5'	-9.73	85.51	104.00
215	U7	17	DT	O3'-P-O5'	-9.73	85.51	104.00
230	W3	5	DT	O3'-P-O5'	-9.73	85.51	104.00
233	W8	7	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	625	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	6144	DT	O3'-P-O5'	-9.73	85.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
125	L1	19	DT	O3'-P-O5'	-9.73	85.51	104.00
6	A6	15	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	145	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	166	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	173	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	356	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	888	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	1510	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	1075	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	1597	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	1601	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	1925	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	3589	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	4320	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	4811	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	5105	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	5185	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	6938	DT	O3'-P-O5'	-9.73	85.51	104.00
39	D3	7	DT	O3'-P-O5'	-9.73	85.51	104.00
58	ED	38	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	2252	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	2480	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	2875	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	3055	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	3109	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	3601	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	3625	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	6353	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	6546	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	3762	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	4396	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	5404	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	5710	DG	P-O3'-C3'	-9.73	108.02	119.70
11	AB	6081	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	6201	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	7044	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	7148	DT	O3'-P-O5'	-9.73	85.51	104.00
14	B1	37	DT	O3'-P-O5'	-9.73	85.51	104.00
30	C6	10	DT	O3'-P-O5'	-9.73	85.51	104.00
43	D8	19	DT	O3'-P-O5'	-9.73	85.51	104.00
91	HD	27	DT	O3'-P-O5'	-9.73	85.51	104.00
98	I8	20	DT	O3'-P-O5'	-9.73	85.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	J6	6	DT	O3'-P-O5'	-9.73	85.51	104.00
122	KA	17	DT	O3'-P-O5'	-9.73	85.51	104.00
122	KA	30	DT	O3'-P-O5'	-9.73	85.51	104.00
130	L7	24	DT	O3'-P-O5'	-9.73	85.51	104.00
142	M9	17	DT	O3'-P-O5'	-9.73	85.51	104.00
108	J7	27	DT	O3'-P-O5'	-9.73	85.51	104.00
109	J8	17	DT	O3'-P-O5'	-9.73	85.51	104.00
120	K8	1	DT	O3'-P-O5'	-9.73	85.51	104.00
138	M5	12	DT	O3'-P-O5'	-9.73	85.51	104.00
158	O5	47	DT	O3'-P-O5'	-9.73	85.51	104.00
163	OA	17	DT	O3'-P-O5'	-9.73	85.51	104.00
165	OD	43	DT	O3'-P-O5'	-9.73	85.51	104.00
203	T2	23	DT	O3'-P-O5'	-9.73	85.51	104.00
204	T3	40	DT	O3'-P-O5'	-9.73	85.51	104.00
226	V9	12	DT	O3'-P-O5'	-9.73	85.51	104.00
231	W5	15	DT	O3'-P-O5'	-9.73	85.51	104.00
232	W7	24	DT	O3'-P-O5'	-9.73	85.51	104.00
3	A3	11	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	377	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	772	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	6052	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	533	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	541	DG	P-O3'-C3'	-9.73	108.03	119.70
11	AB	822	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	1099	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	1992	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	2316	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	2635	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	2914	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	2932	DG	P-O3'-C3'	-9.73	108.03	119.70
11	AB	3508	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	3559	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	4447	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	4460	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	5217	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	5590	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	6434	DG	P-O3'-C3'	-9.73	108.03	119.70
11	AB	6532	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	6577	DG	P-O3'-C3'	-9.73	108.03	119.70
34	CA	18	DT	O3'-P-O5'	-9.73	85.51	104.00
147	N3	33	DT	O3'-P-O5'	-9.73	85.52	104.00
187	R5	40	DT	O3'-P-O5'	-9.73	85.52	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
195	S3	13	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	731	DG	P-O3'-C3'	-9.73	108.03	119.70
11	AB	1625	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	1813	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	2236	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	2657	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	2923	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	3236	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	3732	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	4835	DT	O3'-P-O5'	-9.73	85.51	104.00
11	AB	6711	DT	O3'-P-O5'	-9.73	85.52	104.00
19	B6	21	DT	O3'-P-O5'	-9.73	85.52	104.00
92	I1	7	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	3646	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	4012	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	7130	DT	O3'-P-O5'	-9.73	85.52	104.00
102	ID	26	DG	P-O3'-C3'	-9.73	108.03	119.70
125	L1	29	DG	P-O3'-C3'	-9.73	108.03	119.70
194	S2	21	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	4192	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	4230	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	4339	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	4545	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	4825	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	5453	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	5477	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	6283	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	6357	DG	P-O3'-C3'	-9.73	108.03	119.70
11	AB	6557	DG	P-O3'-C3'	-9.73	108.03	119.70
11	AB	6914	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	7169	DG	P-O3'-C3'	-9.73	108.03	119.70
21	B8	7	DT	O3'-P-O5'	-9.73	85.52	104.00
28	C3	8	DG	P-O3'-C3'	-9.73	108.03	119.70
70	G1	13	DT	O3'-P-O5'	-9.73	85.52	104.00
72	G3	4	DG	P-O3'-C3'	-9.73	108.03	119.70
89	HA	31	DT	O3'-P-O5'	-9.73	85.52	104.00
123	KC	12	DG	P-O3'-C3'	-9.73	108.03	119.70
147	N3	16	DT	O3'-P-O5'	-9.73	85.52	104.00
159	O6	15	DT	O3'-P-O5'	-9.73	85.52	104.00
171	P8	13	DT	O3'-P-O5'	-9.73	85.52	104.00
180	Q8	26	DG	P-O3'-C3'	-9.73	108.03	119.70
181	Q9	36	DT	O3'-P-O5'	-9.73	85.52	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
198	S8	8	DG	P-O3'-C3'	-9.73	108.03	119.70
209	TA	3	DT	O3'-P-O5'	-9.73	85.52	104.00
209	TA	20	DT	O3'-P-O5'	-9.73	85.52	104.00
211	TD	29	DT	O3'-P-O5'	-9.73	85.52	104.00
11	AB	51	DT	O3'-P-O5'	-9.72	85.52	104.00
11	AB	573	DT	O3'-P-O5'	-9.72	85.52	104.00
11	AB	1447	DT	O3'-P-O5'	-9.72	85.52	104.00
11	AB	5758	DT	O3'-P-O5'	-9.72	85.52	104.00
11	AB	5940	DT	O3'-P-O5'	-9.72	85.52	104.00
11	AB	6195	DT	O3'-P-O5'	-9.72	85.52	104.00
71	G2	7	DT	O3'-P-O5'	-9.72	85.52	104.00
161	O8	49	DT	O3'-P-O5'	-9.72	85.52	104.00
188	R7	19	DT	O3'-P-O5'	-9.72	85.52	104.00
11	AB	116	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	470	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	925	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	1173	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	1386	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	1672	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	1800	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	1903	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	2141	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	2196	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	2445	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	2461	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	2534	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	2743	DT	O3'-P-O5'	-9.72	85.52	104.00
11	AB	2787	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	3152	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	3271	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	3411	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	3824	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	3962	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	4338	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	3967	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	4043	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	4152	DT	O3'-P-O5'	-9.72	85.52	104.00
11	AB	4161	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	4367	DT	O3'-P-O5'	-9.72	85.52	104.00
11	AB	4435	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	5289	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	5914	DG	P-O3'-C3'	-9.72	108.03	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6126	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	6592	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	6874	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	6880	DT	O3'-P-O5'	-9.72	85.53	104.00
21	B8	10	DT	O3'-P-O5'	-9.72	85.53	104.00
36	CD	8	DT	O3'-P-O5'	-9.72	85.53	104.00
46	DC	14	DG	P-O3'-C3'	-9.72	108.03	119.70
184	QD	22	DT	O3'-P-O5'	-9.72	85.52	104.00
49	E2	18	DT	O3'-P-O5'	-9.72	85.53	104.00
52	E6	25	DT	O3'-P-O5'	-9.72	85.52	104.00
84	H5	37	DT	O3'-P-O5'	-9.72	85.52	104.00
101	IC	16	DT	O3'-P-O5'	-9.72	85.53	104.00
138	M5	29	DT	O3'-P-O5'	-9.72	85.52	104.00
149	N6	31	DT	O3'-P-O5'	-9.72	85.52	104.00
176	Q2	10	DT	O3'-P-O5'	-9.72	85.53	104.00
178	Q5	11	DT	O3'-P-O5'	-9.72	85.52	104.00
179	Q7	5	DT	O3'-P-O5'	-9.72	85.53	104.00
180	Q8	15	DT	O3'-P-O5'	-9.72	85.52	104.00
187	R5	15	DT	O3'-P-O5'	-9.72	85.53	104.00
193	RD	18	DT	O3'-P-O5'	-9.72	85.52	104.00
204	T3	18	DG	P-O3'-C3'	-9.72	108.03	119.70
208	T9	14	DT	O3'-P-O5'	-9.72	85.52	104.00
220	UD	5	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	33	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	757	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	1206	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	1276	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	1425	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	1845	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	2056	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	2207	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	2818	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	2842	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	3181	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	4112	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	4158	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	6861	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	4166	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	4551	DG	P-O3'-C3'	-9.72	108.03	119.70
11	AB	6902	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	6977	DT	O3'-P-O5'	-9.72	85.53	104.00
44	D9	7	DG	P-O3'-C3'	-9.72	108.03	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	EA	15	DG	P-O3'-C3'	-9.72	108.03	119.70
100	IA	7	DT	O3'-P-O5'	-9.72	85.53	104.00
150	N7	8	DT	O3'-P-O5'	-9.72	85.53	104.00
204	T3	27	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	5944	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	6156	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	6707	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	6817	DG	P-O3'-C3'	-9.72	108.04	119.70
62	F5	42	DT	O3'-P-O5'	-9.72	85.53	104.00
64	F7	21	DT	O3'-P-O5'	-9.72	85.53	104.00
78	GA	8	DG	P-O3'-C3'	-9.72	108.04	119.70
98	I8	11	DT	O3'-P-O5'	-9.72	85.53	104.00
117	K5	45	DT	O3'-P-O5'	-9.72	85.53	104.00
121	K9	6	DT	O3'-P-O5'	-9.72	85.53	104.00
148	N5	7	DG	P-O3'-C3'	-9.72	108.03	119.70
150	N7	15	DG	P-O3'-C3'	-9.72	108.04	119.70
186	R3	14	DT	O3'-P-O5'	-9.72	85.53	104.00
207	T8	19	DG	P-O3'-C3'	-9.72	108.03	119.70
213	U3	21	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	39	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	75	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	608	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	1046	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	1246	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	1333	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	1661	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	2193	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	2366	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	2452	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	3075	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	3604	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	3911	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	2857	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	4092	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	4171	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	4286	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	4293	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	4394	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	4953	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	6760	DG	P-O3'-C3'	-9.72	108.04	119.70
202	SD	22	DT	O3'-P-O5'	-9.72	85.53	104.00
11	AB	5197	DT	O3'-P-O5'	-9.72	85.54	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5208	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	6245	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	6789	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	6394	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	6724	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	7119	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	7137	DT	O3'-P-O5'	-9.72	85.54	104.00
33	C9	18	DT	O3'-P-O5'	-9.72	85.53	104.00
207	T8	23	DG	P-O3'-C3'	-9.72	108.04	119.70
45	DA	6	DT	O3'-P-O5'	-9.72	85.54	104.00
51	E5	5	DT	O3'-P-O5'	-9.72	85.54	104.00
64	F7	6	DT	O3'-P-O5'	-9.72	85.54	104.00
72	G3	11	DG	P-O3'-C3'	-9.72	108.04	119.70
73	G5	4	DT	O3'-P-O5'	-9.72	85.54	104.00
130	L7	20	DT	O3'-P-O5'	-9.72	85.54	104.00
135	LD	16	DT	O3'-P-O5'	-9.72	85.54	104.00
137	M3	26	DG	P-O3'-C3'	-9.72	108.04	119.70
145	MD	26	DT	O3'-P-O5'	-9.72	85.54	104.00
166	P2	19	DT	O3'-P-O5'	-9.72	85.54	104.00
189	R8	34	DT	O3'-P-O5'	-9.72	85.53	104.00
216	U8	5	DG	P-O3'-C3'	-9.72	108.04	119.70
218	UA	9	DT	O3'-P-O5'	-9.72	85.54	104.00
232	W7	21	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	64	DG	P-O3'-C3'	-9.71	108.04	119.70
11	AB	1257	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	1654	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	1894	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	4029	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	5662	DT	O3'-P-O5'	-9.72	85.54	104.00
173	PA	18	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	197	DT	O3'-P-O5'	-9.71	85.54	104.00
11	AB	876	DT	O3'-P-O5'	-9.71	85.54	104.00
11	AB	1636	DT	O3'-P-O5'	-9.71	85.54	104.00
11	AB	2453	DT	O3'-P-O5'	-9.71	85.54	104.00
11	AB	2604	DG	P-O3'-C3'	-9.71	108.04	119.70
11	AB	2649	DT	O3'-P-O5'	-9.71	85.54	104.00
11	AB	2853	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	3630	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	3682	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	4100	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	4290	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	6215	DT	O3'-P-O5'	-9.72	85.54	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
207	T8	9	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	4503	DT	O3'-P-O5'	-9.71	85.54	104.00
11	AB	4614	DT	O3'-P-O5'	-9.71	85.54	104.00
11	AB	5077	DT	O3'-P-O5'	-9.71	85.54	104.00
11	AB	5168	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	6019	DG	P-O3'-C3'	-9.72	108.04	119.70
11	AB	6039	DT	O3'-P-O5'	-9.72	85.54	104.00
191	RA	24	DT	O3'-P-O5'	-9.72	85.54	104.00
208	T9	20	DT	O3'-P-O5'	-9.72	85.54	104.00
11	AB	5720	DG	P-O3'-C3'	-9.71	108.04	119.70
11	AB	6239	DG	P-O3'-C3'	-9.71	108.04	119.70
11	AB	7157	DG	P-O3'-C3'	-9.71	108.04	119.70
29	C5	40	DG	P-O3'-C3'	-9.71	108.04	119.70
39	D3	10	DG	P-O3'-C3'	-9.71	108.04	119.70
47	DD	6	DG	P-O3'-C3'	-9.71	108.04	119.70
69	FD	9	DG	P-O3'-C3'	-9.71	108.04	119.70
103	J1	26	DG	P-O3'-C3'	-9.71	108.04	119.70
144	MC	18	DT	O3'-P-O5'	-9.71	85.54	104.00
158	O5	40	DT	O3'-P-O5'	-9.71	85.54	104.00
166	P2	23	DT	O3'-P-O5'	-9.71	85.54	104.00
213	U3	6	DG	P-O3'-C3'	-9.71	108.04	119.70
5	A5	3	DG	P-O3'-C3'	-9.71	108.04	119.70
5	A5	41	DG	P-O3'-C3'	-9.71	108.04	119.70
11	AB	518	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	587	DT	O3'-P-O5'	-9.71	85.54	104.00
11	AB	5048	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	150	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	1189	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	1315	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	1419	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	1585	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	1599	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	2139	DG	P-O3'-C3'	-9.71	108.04	119.70
11	AB	2935	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	1615	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	1742	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	2151	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	2318	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	2607	DG	P-O3'-C3'	-9.71	108.04	119.70
11	AB	2806	DG	P-O3'-C3'	-9.71	108.04	119.70
11	AB	3262	DT	O3'-P-O5'	-9.71	85.54	104.00
11	AB	4344	DG	P-O3'-C3'	-9.71	108.05	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2356	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	3562	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	3993	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	4542	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	4681	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	4904	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	5205	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	6120	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	6525	DT	O3'-P-O5'	-9.71	85.55	104.00
196	S5	4	DG	P-O3'-C3'	-9.71	108.05	119.70
223	V5	3	DG	P-O3'-C3'	-9.71	108.04	119.70
11	AB	6277	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	6382	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	6653	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	6910	DT	O3'-P-O5'	-9.71	85.55	104.00
17	B4	18	DG	P-O3'-C3'	-9.71	108.05	119.70
29	C5	16	DG	P-O3'-C3'	-9.71	108.05	119.70
31	C7	23	DG	P-O3'-C3'	-9.71	108.05	119.70
48	E1	1	DT	O3'-P-O5'	-9.71	85.55	104.00
66	F9	16	DG	P-O3'-C3'	-9.71	108.05	119.70
78	GA	3	DG	P-O3'-C3'	-9.71	108.05	119.70
100	IA	20	DT	O3'-P-O5'	-9.71	85.55	104.00
133	LA	3	DG	P-O3'-C3'	-9.71	108.05	119.70
144	MC	13	DG	P-O3'-C3'	-9.71	108.05	119.70
176	Q2	15	DG	P-O3'-C3'	-9.71	108.05	119.70
178	Q5	21	DT	O3'-P-O5'	-9.71	85.55	104.00
188	R7	25	DG	P-O3'-C3'	-9.71	108.05	119.70
213	U3	16	DG	P-O3'-C3'	-9.71	108.05	119.70
227	VA	24	DG	P-O3'-C3'	-9.71	108.05	119.70
234	W9	9	DT	O3'-P-O5'	-9.71	85.55	104.00
1	A1	30	DT	O3'-P-O5'	-9.71	85.56	104.00
11	AB	375	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	584	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	2412	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	3063	DT	O3'-P-O5'	-9.71	85.56	104.00
11	AB	3960	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	4978	DT	O3'-P-O5'	-9.71	85.55	104.00
11	AB	5464	DG	P-O3'-C3'	-9.71	108.05	119.70
155	ND	10	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	3243	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	3792	DT	O3'-P-O5'	-9.71	85.56	104.00
11	AB	3818	DG	P-O3'-C3'	-9.71	108.05	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5942	DG	P-O3'-C3'	-9.71	108.05	119.70
55	E9	24	DT	O3'-P-O5'	-9.71	85.55	104.00
67	FA	22	DG	P-O3'-C3'	-9.71	108.05	119.70
91	HD	26	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	6687	DT	O3'-P-O5'	-9.71	85.56	104.00
23	BA	14	DT	O3'-P-O5'	-9.71	85.56	104.00
97	I7	11	DG	P-O3'-C3'	-9.71	108.05	119.70
127	L3	10	DT	O3'-P-O5'	-9.71	85.56	104.00
133	LA	19	DG	P-O3'-C3'	-9.71	108.05	119.70
145	MD	15	DG	P-O3'-C3'	-9.71	108.05	119.70
152	N9	12	DG	P-O3'-C3'	-9.71	108.05	119.70
166	P2	13	DG	P-O3'-C3'	-9.71	108.05	119.70
179	Q7	17	DT	O3'-P-O5'	-9.71	85.56	104.00
11	AB	430	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	1264	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	1815	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	1912	DT	O3'-P-O5'	-9.71	85.56	104.00
11	AB	2209	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	3757	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	5965	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	1773	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	2663	DT	O3'-P-O5'	-9.71	85.56	104.00
11	AB	3640	DT	O3'-P-O5'	-9.71	85.56	104.00
11	AB	4097	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	5097	DT	O3'-P-O5'	-9.71	85.56	104.00
11	AB	6111	DT	O3'-P-O5'	-9.71	85.56	104.00
11	AB	6857	DG	P-O3'-C3'	-9.71	108.05	119.70
75	G7	24	DG	P-O3'-C3'	-9.71	108.05	119.70
152	N9	45	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	5029	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	5683	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	6180	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	6785	DT	O3'-P-O5'	-9.70	85.56	104.00
11	AB	6854	DT	O3'-P-O5'	-9.71	85.56	104.00
11	AB	7180	DG	P-O3'-C3'	-9.70	108.06	119.70
21	B8	12	DG	P-O3'-C3'	-9.71	108.05	119.70
23	BA	34	DG	P-O3'-C3'	-9.70	108.06	119.70
26	C1	24	DT	O3'-P-O5'	-9.71	85.56	104.00
33	C9	2	DG	P-O3'-C3'	-9.70	108.06	119.70
55	E9	43	DG	P-O3'-C3'	-9.71	108.05	119.70
83	H3	14	DT	O3'-P-O5'	-9.71	85.56	104.00
226	V9	17	DT	O3'-P-O5'	-9.71	85.56	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
84	H5	7	DG	P-O3'-C3'	-9.70	108.06	119.70
94	I3	13	DT	O3'-P-O5'	-9.71	85.56	104.00
145	MD	33	DG	P-O3'-C3'	-9.70	108.06	119.70
149	N6	21	DG	P-O3'-C3'	-9.71	108.05	119.70
234	W9	1	DG	P-O3'-C3'	-9.71	108.05	119.70
11	AB	359	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	424	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	4198	DT	O3'-P-O5'	-9.70	85.56	104.00
11	AB	460	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	1697	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	3782	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	4057	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	4884	DG	P-O3'-C3'	-9.70	108.06	119.70
42	D7	9	DG	P-O3'-C3'	-9.70	108.06	119.70
153	NA	8	DT	O3'-P-O5'	-9.70	85.56	104.00
156	O2	59	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	5837	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	5959	DT	O3'-P-O5'	-9.70	85.57	104.00
11	AB	6001	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	6621	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	7030	DG	P-O3'-C3'	-9.70	108.06	119.70
129	L6	6	DG	P-O3'-C3'	-9.70	108.06	119.70
155	ND	3	DG	P-O3'-C3'	-9.70	108.06	119.70
161	O8	14	DG	P-O3'-C3'	-9.70	108.06	119.70
167	P3	15	DT	O3'-P-O5'	-9.70	85.57	104.00
1	A1	4	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	346	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	687	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	4180	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	183	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	2022	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	2206	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	2782	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	2833	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	3476	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	3525	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	3600	DG	P-O3'-C3'	-9.70	108.06	119.70
19	B6	17	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	3661	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	3703	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	4036	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	5448	DG	P-O3'-C3'	-9.70	108.06	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4218	DT	O3'-P-O5'	-9.70	85.57	104.00
11	AB	4685	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	5124	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	5565	DT	O3'-P-O5'	-9.70	85.57	104.00
11	AB	5587	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	5735	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	5818	DG	P-O3'-C3'	-9.70	108.06	119.70
25	BD	17	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	6270	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	7070	DG	P-O3'-C3'	-9.70	108.06	119.70
33	C9	20	DG	P-O3'-C3'	-9.70	108.06	119.70
126	L2	17	DG	P-O3'-C3'	-9.70	108.06	119.70
203	T2	22	DG	P-O3'-C3'	-9.70	108.06	119.70
238	X9	26	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	26	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	180	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	262	DT	O3'-P-O5'	-9.70	85.58	104.00
11	AB	2110	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	3395	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	3649	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	5434	DG	P-O3'-C3'	-9.70	108.06	119.70
22	B9	17	DG	P-O3'-C3'	-9.70	108.06	119.70
22	B9	47	DG	P-O3'-C3'	-9.70	108.06	119.70
99	I9	14	DG	P-O3'-C3'	-9.70	108.06	119.70
5	A5	19	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	439	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	846	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	1376	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	2679	DG	P-O3'-C3'	-9.70	108.07	119.70
11	AB	3155	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	4604	DG	P-O3'-C3'	-9.70	108.07	119.70
11	AB	6340	DG	P-O3'-C3'	-9.70	108.06	119.70
19	B6	9	DG	P-O3'-C3'	-9.70	108.06	119.70
168	P5	10	DG	P-O3'-C3'	-9.70	108.06	119.70
182	QA	6	DG	P-O3'-C3'	-9.70	108.06	119.70
219	UC	18	DG	P-O3'-C3'	-9.70	108.06	119.70
11	AB	4740	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	4814	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	6439	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	6878	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	7066	DG	P-O3'-C3'	-9.69	108.07	119.70
114	K1	22	DG	P-O3'-C3'	-9.69	108.07	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
115	K2	11	DG	P-O3'-C3'	-9.69	108.07	119.70
169	P6	12	DG	P-O3'-C3'	-9.70	108.07	119.70
1	A1	53	DG	P-O3'-C3'	-9.69	108.07	119.70
5	A5	39	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	367	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	7136	DG	P-O3'-C3'	-9.69	108.07	119.70
157	O3	19	DG	P-O3'-C3'	-9.69	108.07	119.70
8	A8	7	DG	P-O3'-C3'	-9.69	108.07	119.70
8	A8	24	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	1634	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	2235	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	2893	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	2926	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	3502	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	3847	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	3914	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	4278	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	5728	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	6494	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	6838	DG	P-O3'-C3'	-9.69	108.07	119.70
128	L5	4	DG	P-O3'-C3'	-9.69	108.07	119.70
231	W5	8	DG	P-O3'-C3'	-9.69	108.07	119.70
146	N2	3	DG	P-O3'-C3'	-9.69	108.07	119.70
163	OA	12	DG	P-O3'-C3'	-9.69	108.07	119.70
164	OC	26	DG	P-O3'-C3'	-9.69	108.07	119.70
204	T3	39	DG	P-O3'-C3'	-9.69	108.07	119.70
214	U5	30	DG	P-O3'-C3'	-9.69	108.07	119.70
221	V2	15	DG	P-O3'-C3'	-9.69	108.07	119.70
232	W7	23	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	714	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	1362	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	2341	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	3361	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	3611	DG	P-O3'-C3'	-9.69	108.07	119.70
159	O6	11	DG	P-O3'-C3'	-9.69	108.07	119.70
192	RC	28	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	1380	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	2203	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	2526	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	2533	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	3163	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	3638	DG	P-O3'-C3'	-9.69	108.07	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3966	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	4239	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	4535	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	5503	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	5924	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	7038	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	7102	DG	P-O3'-C3'	-9.69	108.07	119.70
26	C1	4	DG	P-O3'-C3'	-9.69	108.07	119.70
68	FC	11	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	4881	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	5068	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	5279	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	6775	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	7040	DG	P-O3'-C3'	-9.69	108.07	119.70
21	B8	26	DG	P-O3'-C3'	-9.69	108.07	119.70
23	BA	5	DG	P-O3'-C3'	-9.69	108.07	119.70
57	EC	12	DG	P-O3'-C3'	-9.69	108.07	119.70
107	J6	41	DG	P-O3'-C3'	-9.69	108.07	119.70
122	KA	3	DG	P-O3'-C3'	-9.69	108.07	119.70
134	LC	10	DG	P-O3'-C3'	-9.69	108.08	119.70
160	O7	8	DG	P-O3'-C3'	-9.69	108.07	119.70
161	O8	36	DG	P-O3'-C3'	-9.69	108.08	119.70
207	T8	7	DG	P-O3'-C3'	-9.69	108.07	119.70
223	V5	32	DG	P-O3'-C3'	-9.69	108.07	119.70
238	X9	37	DG	P-O3'-C3'	-9.69	108.07	119.70
11	AB	314	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	1153	DG	P-O3'-C3'	-9.69	108.08	119.70
67	FA	6	DG	P-O3'-C3'	-9.69	108.08	119.70
3	A3	10	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	481	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	1192	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	1418	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	1527	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	5382	DG	P-O3'-C3'	-9.69	108.08	119.70
33	C9	14	DG	P-O3'-C3'	-9.69	108.08	119.70
96	I6	5	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	1660	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	2595	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	2956	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	3310	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	5183	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	6937	DG	P-O3'-C3'	-9.69	108.08	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7081	DG	P-O3'-C3'	-9.69	108.08	119.70
152	N9	41	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	4365	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	5093	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	6479	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	6979	DT	O3'-P-O5'	-9.69	85.60	104.00
93	I2	36	DG	P-O3'-C3'	-9.69	108.08	119.70
130	L7	10	DG	P-O3'-C3'	-9.69	108.08	119.70
141	M8	21	DG	P-O3'-C3'	-9.69	108.08	119.70
11	AB	16	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	3419	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	6849	DG	P-O3'-C3'	-9.68	108.08	119.70
4	A4	25	DG	P-O3'-C3'	-9.68	108.08	119.70
5	A5	25	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	651	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	704	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	751	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	1342	DT	O3'-P-O5'	-9.68	85.60	104.00
11	AB	4661	DG	P-O3'-C3'	-9.68	108.08	119.70
218	UA	8	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	1489	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	1825	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	6460	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	6672	DG	P-O3'-C3'	-9.68	108.08	119.70
211	TD	17	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	6715	DG	P-O3'-C3'	-9.68	108.08	119.70
41	D6	27	DG	P-O3'-C3'	-9.68	108.08	119.70
56	EA	12	DG	P-O3'-C3'	-9.68	108.08	119.70
73	G5	16	DG	P-O3'-C3'	-9.68	108.08	119.70
102	ID	8	DG	P-O3'-C3'	-9.68	108.08	119.70
117	K5	44	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	261	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	409	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	805	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	871	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	1105	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	1433	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	4868	DG	P-O3'-C3'	-9.68	108.08	119.70
95	I5	22	DG	P-O3'-C3'	-9.68	108.08	119.70
108	J7	36	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	412	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	666	DG	P-O3'-C3'	-9.68	108.08	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	874	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	916	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	1144	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	1349	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	1552	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	1853	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	2173	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	6985	DG	P-O3'-C3'	-9.68	108.08	119.70
80	GD	16	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	3020	DG	P-O3'-C3'	-9.68	108.09	119.70
41	D6	33	DG	P-O3'-C3'	-9.68	108.08	119.70
228	VC	9	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	3689	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	3842	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	3880	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	6634	DG	P-O3'-C3'	-9.68	108.08	119.70
34	CA	17	DG	P-O3'-C3'	-9.68	108.08	119.70
113	JD	33	DG	P-O3'-C3'	-9.68	108.08	119.70
67	FA	15	DG	P-O3'-C3'	-9.68	108.09	119.70
117	K5	36	DG	P-O3'-C3'	-9.68	108.08	119.70
121	K9	25	DG	P-O3'-C3'	-9.68	108.09	119.70
138	M5	23	DG	P-O3'-C3'	-9.68	108.09	119.70
161	O8	23	DG	P-O3'-C3'	-9.68	108.08	119.70
188	R7	3	DG	P-O3'-C3'	-9.68	108.08	119.70
196	S5	29	DG	P-O3'-C3'	-9.68	108.08	119.70
218	UA	16	DG	P-O3'-C3'	-9.68	108.08	119.70
11	AB	220	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	2761	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	4042	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	4228	DG	P-O3'-C3'	-9.68	108.09	119.70
13	AD	22	DG	P-O3'-C3'	-9.68	108.09	119.70
128	L5	1	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	54	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	824	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	2045	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	2516	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	4197	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	2401	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	2829	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	5228	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	7019	DG	P-O3'-C3'	-9.68	108.09	119.70
11	AB	7151	DG	P-O3'-C3'	-9.68	108.09	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	C7	13	DG	P-O3'-C3'	-9.68	108.09	119.70
73	G5	22	DG	P-O3'-C3'	-9.68	108.09	119.70
83	H3	26	DG	P-O3'-C3'	-9.68	108.09	119.70
94	I3	40	DG	P-O3'-C3'	-9.68	108.09	119.70
100	IA	6	DG	P-O3'-C3'	-9.68	108.09	119.70
145	MD	46	DG	P-O3'-C3'	-9.68	108.09	119.70
166	P2	6	DG	P-O3'-C3'	-9.68	108.09	119.70
190	R9	23	DG	P-O3'-C3'	-9.68	108.09	119.70
218	UA	18	DG	P-O3'-C3'	-9.68	108.09	119.70
7	A7	35	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	29	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	32	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	955	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	6901	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	895	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	1341	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	1470	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	1984	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	2479	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	5557	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	6142	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	6923	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	7091	DG	P-O3'-C3'	-9.67	108.09	119.70
13	AD	38	DG	P-O3'-C3'	-9.67	108.09	119.70
20	B7	21	DG	P-O3'-C3'	-9.67	108.09	119.70
34	CA	13	DG	P-O3'-C3'	-9.67	108.09	119.70
49	E2	17	DG	P-O3'-C3'	-9.67	108.09	119.70
160	O7	43	DG	P-O3'-C3'	-9.67	108.09	119.70
51	E5	16	DG	P-O3'-C3'	-9.67	108.09	119.70
76	G8	1	DG	P-O3'-C3'	-9.67	108.09	119.70
79	GC	21	DG	P-O3'-C3'	-9.67	108.09	119.70
158	O5	7	DG	P-O3'-C3'	-9.67	108.09	119.70
203	T2	14	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	333	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	336	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	2569	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	3040	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	3466	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	5346	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	7078	DG	P-O3'-C3'	-9.67	108.09	119.70
84	H5	14	DG	P-O3'-C3'	-9.67	108.09	119.70
187	R5	23	DG	P-O3'-C3'	-9.67	108.09	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
235	WD	12	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	1090	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	1339	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	1593	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	1648	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	2292	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	3277	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	3478	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	4482	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	5660	DG	P-O3'-C3'	-9.67	108.09	119.70
11	AB	6521	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	6992	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	7004	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	7032	DG	P-O3'-C3'	-9.67	108.10	119.70
13	AD	11	DG	P-O3'-C3'	-9.67	108.10	119.70
31	C7	15	DG	P-O3'-C3'	-9.67	108.10	119.70
49	E2	34	DG	P-O3'-C3'	-9.67	108.10	119.70
97	I7	14	DG	P-O3'-C3'	-9.67	108.10	119.70
97	I7	26	DG	P-O3'-C3'	-9.67	108.10	119.70
142	M9	21	DG	P-O3'-C3'	-9.67	108.10	119.70
215	U7	14	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	432	DT	O3'-P-O5'	-9.67	85.63	104.00
11	AB	6717	DG	P-O3'-C3'	-9.67	108.10	119.70
22	B9	34	DG	P-O3'-C3'	-9.67	108.10	119.70
39	D3	3	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	952	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	1074	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	1782	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	2334	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	1685	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	2416	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	5150	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	5413	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	5893	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	7059	DG	P-O3'-C3'	-9.67	108.10	119.70
182	QA	9	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	7129	DG	P-O3'-C3'	-9.67	108.10	119.70
35	CC	18	DG	P-O3'-C3'	-9.67	108.10	119.70
58	ED	9	DG	P-O3'-C3'	-9.67	108.10	119.70
64	F7	24	DG	P-O3'-C3'	-9.67	108.10	119.70
134	LC	19	DG	P-O3'-C3'	-9.67	108.10	119.70
144	MC	10	DG	P-O3'-C3'	-9.67	108.10	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
149	N6	36	DG	P-O3'-C3'	-9.67	108.10	119.70
166	P2	22	DG	P-O3'-C3'	-9.67	108.10	119.70
233	W8	15	DG	P-O3'-C3'	-9.67	108.10	119.70
11	AB	880	DG	P-O3'-C3'	-9.66	108.10	119.70
11	AB	3247	DG	P-O3'-C3'	-9.66	108.10	119.70
11	AB	3547	DG	P-O3'-C3'	-9.66	108.10	119.70
11	AB	4332	DG	P-O3'-C3'	-9.66	108.10	119.70
11	AB	6137	DG	P-O3'-C3'	-9.66	108.10	119.70
11	AB	6565	DG	P-O3'-C3'	-9.66	108.10	119.70
11	AB	6568	DG	P-O3'-C3'	-9.66	108.10	119.70
11	AB	6611	DG	P-O3'-C3'	-9.66	108.10	119.70
14	B1	39	DG	P-O3'-C3'	-9.66	108.10	119.70
84	H5	3	DG	P-O3'-C3'	-9.66	108.10	119.70
101	IC	25	DG	P-O3'-C3'	-9.66	108.10	119.70
133	LA	13	DG	P-O3'-C3'	-9.66	108.10	119.70
11	AB	1450	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	1677	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	2135	DT	O3'-P-O5'	-9.66	85.64	104.00
48	E1	21	DG	P-O3'-C3'	-9.66	108.10	119.70
11	AB	2298	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	2944	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	2951	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	6581	DG	P-O3'-C3'	-9.66	108.11	119.70
48	E1	26	DG	P-O3'-C3'	-9.66	108.11	119.70
93	I2	38	DG	P-O3'-C3'	-9.66	108.11	119.70
94	I3	2	DG	P-O3'-C3'	-9.66	108.11	119.70
148	N5	12	DG	P-O3'-C3'	-9.66	108.11	119.70
231	W5	18	DG	P-O3'-C3'	-9.66	108.10	119.70
11	AB	1336	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	1643	DG	P-O3'-C3'	-9.66	108.11	119.70
161	O8	57	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	340	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	2301	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	3521	DG	P-O3'-C3'	-9.66	108.11	119.70
58	ED	37	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	3235	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	4743	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	4871	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	5802	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	5993	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	6291	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	6422	DG	P-O3'-C3'	-9.66	108.11	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
69	FD	26	DG	P-O3'-C3'	-9.66	108.11	119.70
212	U2	20	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	6449	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	6795	DG	P-O3'-C3'	-9.66	108.11	119.70
125	L1	45	DG	P-O3'-C3'	-9.66	108.11	119.70
135	LD	7	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	1198	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	1929	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	5179	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	6431	DG	P-O3'-C3'	-9.66	108.11	119.70
230	W3	13	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	1288	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	3677	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	6518	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	6573	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	6709	DG	P-O3'-C3'	-9.66	108.11	119.70
56	EA	10	DG	P-O3'-C3'	-9.66	108.11	119.70
72	G3	26	DG	P-O3'-C3'	-9.66	108.11	119.70
102	ID	32	DG	P-O3'-C3'	-9.66	108.11	119.70
152	N9	4	DG	P-O3'-C3'	-9.66	108.11	119.70
172	P9	15	DG	P-O3'-C3'	-9.66	108.11	119.70
204	T3	31	DG	P-O3'-C3'	-9.66	108.11	119.70
232	W7	12	DG	P-O3'-C3'	-9.66	108.11	119.70
11	AB	454	DG	P-O3'-C3'	-9.65	108.11	119.70
11	AB	1188	DG	P-O3'-C3'	-9.65	108.11	119.70
11	AB	1138	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	1641	DG	P-O3'-C3'	-9.65	108.11	119.70
11	AB	2418	DG	P-O3'-C3'	-9.65	108.11	119.70
53	E7	20	DG	P-O3'-C3'	-9.65	108.11	119.70
11	AB	1821	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	4638	DG	P-O3'-C3'	-9.65	108.11	119.70
16	B3	18	DG	P-O3'-C3'	-9.65	108.11	119.70
108	J7	12	DG	P-O3'-C3'	-9.65	108.11	119.70
179	Q7	13	DG	P-O3'-C3'	-9.65	108.11	119.70
211	TD	13	DG	P-O3'-C3'	-9.65	108.11	119.70
24	BC	34	DG	P-O3'-C3'	-9.65	108.12	119.70
182	QA	11	DG	P-O3'-C3'	-9.65	108.11	119.70
227	VA	12	DG	P-O3'-C3'	-9.65	108.11	119.70
11	AB	361	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	1589	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	2766	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	3350	DT	O3'-P-O5'	-9.65	85.66	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
95	I5	34	DG	P-O3'-C3'	-9.65	108.12	119.70
204	T3	44	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	3409	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	4745	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	4753	DG	P-O3'-C3'	-9.65	108.12	119.70
42	D7	4	DG	P-O3'-C3'	-9.65	108.12	119.70
96	I6	10	DG	P-O3'-C3'	-9.65	108.12	119.70
119	K7	29	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	1228	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	1910	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	3743	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	3766	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	6982	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	213	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	330	DG	P-O3'-C3'	-9.65	108.12	119.70
35	CC	28	DG	P-O3'-C3'	-9.65	108.12	119.70
130	L7	30	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	970	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	1461	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	1724	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	2239	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	2522	DT	O3'-P-O5'	-9.65	85.67	104.00
11	AB	3252	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	4355	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	6765	DG	P-O3'-C3'	-9.65	108.12	119.70
14	B1	3	DG	P-O3'-C3'	-9.65	108.12	119.70
31	C7	3	DG	P-O3'-C3'	-9.65	108.12	119.70
70	G1	16	DG	P-O3'-C3'	-9.65	108.12	119.70
11	AB	1114	DG	P-O3'-C3'	-9.64	108.13	119.70
11	AB	2157	DG	P-O3'-C3'	-9.64	108.13	119.70
72	G3	20	DG	P-O3'-C3'	-9.64	108.13	119.70
11	AB	2456	DG	P-O3'-C3'	-9.64	108.13	119.70
11	AB	6842	DG	P-O3'-C3'	-9.64	108.13	119.70
11	AB	910	DG	P-O3'-C3'	-9.64	108.13	119.70
11	AB	3232	DG	P-O3'-C3'	-9.64	108.13	119.70
11	AB	3307	DG	P-O3'-C3'	-9.64	108.13	119.70
64	F7	15	DG	P-O3'-C3'	-9.64	108.13	119.70
219	UC	8	DG	P-O3'-C3'	-9.64	108.13	119.70
11	AB	3731	DG	P-O3'-C3'	-9.64	108.13	119.70
131	L8	27	DG	P-O3'-C3'	-9.64	108.13	119.70
1	A1	29	DG	P-O3'-C3'	-9.64	108.13	119.70
6	A6	23	DG	P-O3'-C3'	-9.64	108.13	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3044	DG	P-O3'-C3'	-9.64	108.13	119.70
11	AB	4315	DG	P-O3'-C3'	-9.64	108.14	119.70
11	AB	6279	DG	P-O3'-C3'	-9.64	108.14	119.70
11	AB	6499	DG	P-O3'-C3'	-9.64	108.14	119.70
30	C6	3	DG	P-O3'-C3'	-9.64	108.13	119.70
51	E5	8	DG	P-O3'-C3'	-9.64	108.14	119.70
153	NA	7	DG	P-O3'-C3'	-9.64	108.13	119.70
188	R7	10	DG	P-O3'-C3'	-9.64	108.14	119.70
234	W9	8	DG	P-O3'-C3'	-9.64	108.14	119.70
2	A2	26	DG	P-O3'-C3'	-9.63	108.14	119.70
11	AB	1739	DG	P-O3'-C3'	-9.64	108.14	119.70
11	AB	3866	DG	P-O3'-C3'	-9.64	108.14	119.70
11	AB	6883	DG	P-O3'-C3'	-9.64	108.14	119.70
11	AB	38	DG	P-O3'-C3'	-9.63	108.14	119.70
11	AB	1481	DG	P-O3'-C3'	-9.63	108.14	119.70
11	AB	3069	DG	P-O3'-C3'	-9.63	108.14	119.70
11	AB	3314	DG	P-O3'-C3'	-9.63	108.14	119.70
11	AB	3739	DG	P-O3'-C3'	-9.63	108.14	119.70
11	AB	4993	DG	P-O3'-C3'	-9.64	108.14	119.70
226	V9	16	DG	P-O3'-C3'	-9.64	108.14	119.70
11	AB	4068	DG	P-O3'-C3'	-9.63	108.14	119.70
11	AB	3629	DG	P-O3'-C3'	-9.63	108.14	119.70
74	G6	33	DG	P-O3'-C3'	-9.63	108.14	119.70
116	K3	10	DG	P-O3'-C3'	-9.63	108.14	119.70
11	AB	801	DG	P-O3'-C3'	-9.63	108.15	119.70
11	AB	1443	DG	P-O3'-C3'	-9.63	108.15	119.70
11	AB	476	DG	P-O3'-C3'	-9.63	108.15	119.70
11	AB	2656	DG	P-O3'-C3'	-9.63	108.15	119.70
63	F6	17	DG	P-O3'-C3'	-9.63	108.15	119.70
82	H2	36	DG	P-O3'-C3'	-9.63	108.15	119.70
11	AB	9	DG	P-O3'-C3'	-9.62	108.15	119.70
11	AB	289	DG	P-O3'-C3'	-9.63	108.15	119.70
64	F7	20	DG	P-O3'-C3'	-9.63	108.15	119.70
194	S2	25	DG	P-O3'-C3'	-9.62	108.15	119.70
11	AB	1902	DG	P-O3'-C3'	-9.62	108.15	119.70
11	AB	3890	DG	P-O3'-C3'	-9.62	108.16	119.70
161	O8	6	DG	P-O3'-C3'	-9.62	108.16	119.70
11	AB	2038	DG	P-O3'-C3'	-9.62	108.16	119.70
11	AB	4834	DG	P-O3'-C3'	-9.62	108.16	119.70
11	AB	1391	DG	P-O3'-C3'	-9.62	108.16	119.70
74	G6	9	DG	P-O3'-C3'	-9.62	108.16	119.70
221	V2	7	DG	P-O3'-C3'	-9.61	108.17	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	310	DG	P-O3'-C3'	-9.61	108.17	119.70
11	AB	3499	DT	O3'-P-O5'	-9.61	85.75	104.00
11	AB	1275	DG	P-O3'-C3'	-9.60	108.18	119.70
178	Q5	24	DG	P-O3'-C3'	-9.60	108.19	119.70
11	AB	6458	DG	P-O3'-C3'	-9.59	108.19	119.70
11	AB	868	DG	P-O3'-C3'	-9.57	108.22	119.70
11	AB	898	DG	P-O3'-C3'	-9.54	108.25	119.70
11	AB	7197	DG	P-O3'-C3'	-9.54	108.25	119.70
11	AB	3458	DG	P-O3'-C3'	-9.47	108.33	119.70
11	AB	445	DG	P-O3'-C3'	-9.43	108.38	119.70
11	AB	6912	DG	P-O3'-C3'	-9.43	108.38	119.70
11	AB	2734	DG	P-O3'-C3'	-9.43	108.39	119.70
11	AB	4161	DT	P-O3'-C3'	-9.34	108.49	119.70
11	AB	717	DT	P-O3'-C3'	-9.33	108.50	119.70
11	AB	1425	DT	P-O3'-C3'	-9.33	108.51	119.70
11	AB	1615	DT	P-O3'-C3'	-9.33	108.51	119.70
11	AB	3300	DT	P-O3'-C3'	-9.32	108.52	119.70
11	AB	3644	DT	P-O3'-C3'	-9.31	108.53	119.70
11	AB	4173	DT	P-O3'-C3'	-9.31	108.53	119.70
11	AB	6039	DT	P-O3'-C3'	-9.31	108.53	119.70
34	CA	14	DT	P-O3'-C3'	-9.31	108.53	119.70
89	HA	31	DT	P-O3'-C3'	-9.31	108.53	119.70
121	K9	6	DT	P-O3'-C3'	-9.31	108.53	119.70
20	B7	16	DT	P-O3'-C3'	-9.31	108.53	119.70
11	AB	1225	DT	P-O3'-C3'	-9.30	108.54	119.70
11	AB	3055	DT	P-O3'-C3'	-9.30	108.53	119.70
11	AB	3717	DT	P-O3'-C3'	-9.30	108.54	119.70
156	O2	1	DT	P-O3'-C3'	-9.30	108.53	119.70
11	AB	4447	DT	P-O3'-C3'	-9.30	108.54	119.70
55	E9	24	DT	P-O3'-C3'	-9.30	108.54	119.70
11	AB	2316	DT	P-O3'-C3'	-9.30	108.54	119.70
11	AB	7010	DT	P-O3'-C3'	-9.30	108.54	119.70
208	T9	17	DT	P-O3'-C3'	-9.30	108.54	119.70
11	AB	356	DT	P-O3'-C3'	-9.30	108.55	119.70
11	AB	5676	DT	P-O3'-C3'	-9.29	108.55	119.70
62	F5	13	DT	P-O3'-C3'	-9.30	108.55	119.70
11	AB	1254	DT	P-O3'-C3'	-9.29	108.55	119.70
11	AB	1419	DT	P-O3'-C3'	-9.29	108.55	119.70
11	AB	6192	DT	P-O3'-C3'	-9.29	108.55	119.70
11	AB	7119	DT	P-O3'-C3'	-9.29	108.55	119.70
11	AB	7130	DT	P-O3'-C3'	-9.29	108.55	119.70
92	I1	7	DT	P-O3'-C3'	-9.29	108.55	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
130	L7	31	DT	P-O3'-C3'	-9.29	108.55	119.70
7	A7	40	DT	P-O3'-C3'	-9.29	108.55	119.70
11	AB	2739	DT	P-O3'-C3'	-9.29	108.55	119.70
11	AB	6550	DT	P-O3'-C3'	-9.29	108.55	119.70
52	E6	25	DT	P-O3'-C3'	-9.29	108.55	119.70
159	O6	15	DT	P-O3'-C3'	-9.29	108.55	119.70
210	TC	7	DT	P-O3'-C3'	-9.29	108.55	119.70
215	U7	6	DT	P-O3'-C3'	-9.29	108.55	119.70
11	AB	960	DT	P-O3'-C3'	-9.29	108.56	119.70
11	AB	4040	DT	P-O3'-C3'	-9.29	108.56	119.70
11	AB	6484	DT	P-O3'-C3'	-9.28	108.56	119.70
98	I8	20	DT	P-O3'-C3'	-9.28	108.56	119.70
118	K6	14	DT	P-O3'-C3'	-9.29	108.56	119.70
11	AB	777	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	5632	DT	P-O3'-C3'	-9.28	108.56	119.70
164	OC	19	DT	P-O3'-C3'	-9.28	108.56	119.70
7	A7	36	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	2236	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	2445	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	2743	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	4505	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	4985	DT	P-O3'-C3'	-9.28	108.56	119.70
217	U9	15	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	6465	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	6722	DT	P-O3'-C3'	-9.28	108.56	119.70
31	C7	16	DT	P-O3'-C3'	-9.28	108.56	119.70
82	H2	11	DT	P-O3'-C3'	-9.28	108.56	119.70
93	I2	39	DT	P-O3'-C3'	-9.28	108.56	119.70
131	L8	6	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	1099	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	3295	DT	P-O3'-C3'	-9.28	108.56	119.70
11	AB	4405	DT	P-O3'-C3'	-9.28	108.56	119.70
83	H3	14	DT	P-O3'-C3'	-9.28	108.57	119.70
147	N3	33	DT	P-O3'-C3'	-9.28	108.56	119.70
194	S2	21	DT	P-O3'-C3'	-9.28	108.57	119.70
204	T3	40	DT	P-O3'-C3'	-9.28	108.56	119.70
5	A5	6	DT	P-O3'-C3'	-9.28	108.57	119.70
11	AB	80	DT	P-O3'-C3'	-9.28	108.57	119.70
11	AB	1075	DT	P-O3'-C3'	-9.28	108.57	119.70
11	AB	1467	DT	P-O3'-C3'	-9.28	108.57	119.70
11	AB	1645	DT	P-O3'-C3'	-9.28	108.57	119.70
11	AB	1601	DT	P-O3'-C3'	-9.28	108.57	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2905	DT	P-O3'-C3'	-9.28	108.57	119.70
11	AB	3962	DT	P-O3'-C3'	-9.28	108.57	119.70
11	AB	5396	DT	P-O3'-C3'	-9.28	108.57	119.70
11	AB	6111	DT	P-O3'-C3'	-9.28	108.57	119.70
11	AB	6502	DT	P-O3'-C3'	-9.28	108.57	119.70
39	D3	12	DT	P-O3'-C3'	-9.28	108.57	119.70
114	K1	41	DT	P-O3'-C3'	-9.28	108.57	119.70
220	UD	17	DT	P-O3'-C3'	-9.28	108.57	119.70
221	V2	18	DT	P-O3'-C3'	-9.28	108.57	119.70
7	A7	22	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	75	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	116	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	2923	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	3262	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	4825	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	6839	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	772	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	1737	DT	P-O3'-C3'	-9.27	108.57	119.70
84	H5	37	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	1886	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	3046	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	4043	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	4396	DT	P-O3'-C3'	-9.27	108.57	119.70
72	G3	12	DT	P-O3'-C3'	-9.27	108.57	119.70
103	J1	22	DT	P-O3'-C3'	-9.27	108.57	119.70
187	R5	15	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	4460	DT	P-O3'-C3'	-9.27	108.57	119.70
11	AB	5173	DT	P-O3'-C3'	-9.27	108.57	119.70
134	LC	20	DT	P-O3'-C3'	-9.27	108.57	119.70
177	Q3	17	DT	P-O3'-C3'	-9.27	108.57	119.70
178	Q5	36	DT	P-O3'-C3'	-9.27	108.57	119.70
10	AA	7	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	518	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	1447	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	1477	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	1742	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	3589	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	3911	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	4882	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	5217	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	5281	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	5721	DT	P-O3'-C3'	-9.27	108.58	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	BA	7	DT	P-O3'-C3'	-9.27	108.58	119.70
34	CA	18	DT	P-O3'-C3'	-9.27	108.58	119.70
62	F5	42	DT	P-O3'-C3'	-9.27	108.58	119.70
129	L6	20	DT	P-O3'-C3'	-9.27	108.58	119.70
164	OC	5	DT	P-O3'-C3'	-9.27	108.58	119.70
171	P8	26	DT	P-O3'-C3'	-9.27	108.58	119.70
204	T3	12	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	757	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	1585	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	847	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	876	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	966	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	2528	DT	P-O3'-C3'	-9.27	108.58	119.70
36	CD	22	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	2612	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	3640	DT	P-O3'-C3'	-9.27	108.58	119.70
54	E8	14	DT	P-O3'-C3'	-9.27	108.58	119.70
127	L3	10	DT	P-O3'-C3'	-9.27	108.58	119.70
179	Q7	17	DT	P-O3'-C3'	-9.27	108.58	119.70
186	R3	14	DT	P-O3'-C3'	-9.27	108.58	119.70
197	S7	19	DT	P-O3'-C3'	-9.27	108.58	119.70
218	UA	9	DT	P-O3'-C3'	-9.27	108.58	119.70
213	U3	3	DT	P-O3'-C3'	-9.27	108.58	119.70
226	V9	17	DT	P-O3'-C3'	-9.27	108.58	119.70
11	AB	3732	DT	P-O3'-C3'	-9.26	108.58	119.70
11	AB	6353	DT	P-O3'-C3'	-9.26	108.58	119.70
11	AB	394	DT	P-O3'-C3'	-9.26	108.58	119.70
11	AB	2461	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3559	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3625	DT	P-O3'-C3'	-9.26	108.58	119.70
11	AB	4346	DT	P-O3'-C3'	-9.26	108.58	119.70
11	AB	6052	DT	P-O3'-C3'	-9.26	108.58	119.70
11	AB	6532	DT	P-O3'-C3'	-9.26	108.58	119.70
95	I5	6	DT	P-O3'-C3'	-9.26	108.58	119.70
11	AB	6546	DT	P-O3'-C3'	-9.26	108.59	119.70
14	B1	4	DT	P-O3'-C3'	-9.26	108.58	119.70
33	C9	18	DT	P-O3'-C3'	-9.26	108.59	119.70
94	I3	13	DT	P-O3'-C3'	-9.26	108.59	119.70
130	L7	24	DT	P-O3'-C3'	-9.26	108.59	119.70
153	NA	8	DT	P-O3'-C3'	-9.26	108.58	119.70
160	O7	44	DT	P-O3'-C3'	-9.26	108.58	119.70
166	P2	23	DT	P-O3'-C3'	-9.26	108.58	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
183	QC	6	DT	P-O3'-C3'	-9.26	108.59	119.70
187	R5	40	DT	P-O3'-C3'	-9.26	108.58	119.70
203	T2	23	DT	P-O3'-C3'	-9.26	108.58	119.70
208	T9	14	DT	P-O3'-C3'	-9.26	108.58	119.70
211	TD	29	DT	P-O3'-C3'	-9.26	108.59	119.70
214	U5	2	DT	P-O3'-C3'	-9.26	108.58	119.70
230	W3	45	DT	P-O3'-C3'	-9.26	108.58	119.70
232	W7	16	DT	P-O3'-C3'	-9.26	108.58	119.70
11	AB	166	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	2024	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	671	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	1250	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	1580	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	1599	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	2058	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	2276	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	2635	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	2691	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	2769	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3109	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3112	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	5450	DT	P-O3'-C3'	-9.26	108.59	119.70
67	FA	11	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3210	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3253	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3268	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3527	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3967	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	4000	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	7116	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	4166	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	4182	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	5032	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	5105	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	6785	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	6851	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	6796	DT	P-O3'-C3'	-9.26	108.59	119.70
26	C1	13	DT	P-O3'-C3'	-9.26	108.59	119.70
37	D1	27	DT	P-O3'-C3'	-9.26	108.59	119.70
49	E2	12	DT	P-O3'-C3'	-9.26	108.59	119.70
133	LA	14	DT	P-O3'-C3'	-9.26	108.59	119.70
161	O8	15	DT	P-O3'-C3'	-9.26	108.59	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	195	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	234	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	511	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	1661	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	2649	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3949	DT	P-O3'-C3'	-9.26	108.59	119.70
91	HD	27	DT	P-O3'-C3'	-9.26	108.59	119.70
7	A7	5	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	447	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	1265	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	2210	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3601	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	4204	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	4728	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	6133	DT	P-O3'-C3'	-9.26	108.59	119.70
23	BA	26	DT	P-O3'-C3'	-9.26	108.59	119.70
59	F1	6	DT	P-O3'-C3'	-9.26	108.59	119.70
140	M7	1	DT	P-O3'-C3'	-9.26	108.59	119.70
145	MD	21	DT	P-O3'-C3'	-9.26	108.59	119.70
147	N3	16	DT	P-O3'-C3'	-9.26	108.59	119.70
179	Q7	5	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	720	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	3318	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	4501	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	5545	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	5944	DT	P-O3'-C3'	-9.26	108.59	119.70
59	F1	12	DT	P-O3'-C3'	-9.26	108.59	119.70
79	GC	1	DT	P-O3'-C3'	-9.26	108.59	119.70
100	IA	7	DT	P-O3'-C3'	-9.26	108.59	119.70
120	K8	1	DT	P-O3'-C3'	-9.26	108.59	119.70
145	MD	3	DT	P-O3'-C3'	-9.26	108.59	119.70
176	Q2	10	DT	P-O3'-C3'	-9.26	108.59	119.70
145	MD	11	DT	P-O3'-C3'	-9.26	108.59	119.70
149	N6	10	DT	P-O3'-C3'	-9.26	108.59	119.70
11	AB	2480	DT	P-O3'-C3'	-9.25	108.59	119.70
11	AB	2608	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	2646	DT	P-O3'-C3'	-9.25	108.59	119.70
11	AB	3186	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	3511	DT	P-O3'-C3'	-9.25	108.59	119.70
91	HD	10	DT	P-O3'-C3'	-9.25	108.59	119.70
128	L5	2	DT	P-O3'-C3'	-9.25	108.59	119.70
11	AB	287	DT	P-O3'-C3'	-9.25	108.60	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1246	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	1491	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	2204	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	2553	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	3342	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	4435	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5453	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5510	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5925	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	6283	DT	P-O3'-C3'	-9.25	108.60	119.70
14	B1	40	DT	P-O3'-C3'	-9.25	108.60	119.70
54	E8	33	DT	P-O3'-C3'	-9.25	108.60	119.70
61	F3	3	DT	P-O3'-C3'	-9.25	108.59	119.70
23	BA	14	DT	P-O3'-C3'	-9.25	108.60	119.70
51	E5	5	DT	P-O3'-C3'	-9.25	108.60	119.70
64	F7	21	DT	P-O3'-C3'	-9.25	108.60	119.70
82	H2	7	DT	P-O3'-C3'	-9.25	108.60	119.70
101	IC	26	DT	P-O3'-C3'	-9.25	108.60	119.70
180	Q8	15	DT	P-O3'-C3'	-9.25	108.60	119.70
202	SD	22	DT	P-O3'-C3'	-9.25	108.60	119.70
235	WD	21	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	4320	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	6902	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	311	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	417	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	903	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	1473	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	3940	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	3453	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	3615	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	3942	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	4171	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	4339	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	4811	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	4367	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5460	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5700	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5788	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5959	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	6061	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	6138	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	6144	DT	P-O3'-C3'	-9.25	108.60	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6854	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	7148	DT	P-O3'-C3'	-9.25	108.60	119.70
137	M3	28	DT	P-O3'-C3'	-9.25	108.60	119.70
149	N6	38	DT	P-O3'-C3'	-9.25	108.60	119.70
149	N6	41	DT	P-O3'-C3'	-9.25	108.60	119.70
204	T3	27	DT	P-O3'-C3'	-9.25	108.60	119.70
189	R8	34	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	6	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	173	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	470	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	3748	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5094	DT	P-O3'-C3'	-9.25	108.60	119.70
114	K1	23	DT	P-O3'-C3'	-9.25	108.60	119.70
140	M7	5	DT	P-O3'-C3'	-9.25	108.60	119.70
208	T9	20	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	520	DT	P-O3'-C3'	-9.25	108.61	119.70
11	AB	1625	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	1800	DT	P-O3'-C3'	-9.25	108.61	119.70
11	AB	2207	DT	P-O3'-C3'	-9.25	108.61	119.70
11	AB	2250	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	3075	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	4593	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	4734	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	4933	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5477	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5530	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5698	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	5935	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	6201	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	6240	DT	P-O3'-C3'	-9.25	108.60	119.70
56	EA	17	DT	P-O3'-C3'	-9.25	108.60	119.70
11	AB	7171	DT	P-O3'-C3'	-9.25	108.61	119.70
21	B8	7	DT	P-O3'-C3'	-9.25	108.60	119.70
21	B8	19	DT	P-O3'-C3'	-9.25	108.60	119.70
73	G5	4	DT	P-O3'-C3'	-9.25	108.61	119.70
98	I8	11	DT	P-O3'-C3'	-9.25	108.60	119.70
117	K5	45	DT	P-O3'-C3'	-9.25	108.60	119.70
142	M9	17	DT	P-O3'-C3'	-9.25	108.60	119.70
144	MC	18	DT	P-O3'-C3'	-9.25	108.61	119.70
161	O8	49	DT	P-O3'-C3'	-9.25	108.60	119.70
215	U7	17	DT	P-O3'-C3'	-9.25	108.60	119.70
232	W7	21	DT	P-O3'-C3'	-9.25	108.60	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	51	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2651	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	3451	DT	P-O3'-C3'	-9.24	108.61	119.70
5	A5	33	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	33	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	197	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	494	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	533	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	575	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2318	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2914	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	3711	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6181	DT	P-O3'-C3'	-9.24	108.61	119.70
127	L3	18	DT	P-O3'-C3'	-9.24	108.61	119.70
155	ND	4	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	1122	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	1464	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	1713	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6195	DT	P-O3'-C3'	-9.24	108.61	119.70
210	TC	15	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	3063	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	3411	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	3523	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	3646	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	4394	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	4695	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	5758	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6106	DT	P-O3'-C3'	-9.24	108.61	119.70
33	C9	3	DT	P-O3'-C3'	-9.24	108.61	119.70
148	N5	13	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	7167	DT	P-O3'-C3'	-9.24	108.61	119.70
26	C1	24	DT	P-O3'-C3'	-9.24	108.61	119.70
48	E1	1	DT	P-O3'-C3'	-9.24	108.61	119.70
126	L2	18	DT	P-O3'-C3'	-9.24	108.61	119.70
179	Q7	11	DT	P-O3'-C3'	-9.24	108.61	119.70
232	W7	24	DT	P-O3'-C3'	-9.24	108.61	119.70
234	W9	9	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	57	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	145	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	249	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	1173	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	1694	DT	P-O3'-C3'	-9.24	108.61	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2842	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	563	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	1047	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	1498	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	1555	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2412	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2787	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2853	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2875	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	5375	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6358	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6865	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2937	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2971	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	4158	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	5404	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	5470	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	5917	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6104	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6612	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6707	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6725	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6791	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	7140	DT	P-O3'-C3'	-9.24	108.61	119.70
49	E2	18	DT	P-O3'-C3'	-9.24	108.61	119.70
58	ED	10	DT	P-O3'-C3'	-9.24	108.61	119.70
72	G3	18	DT	P-O3'-C3'	-9.24	108.61	119.70
205	T5	19	DT	P-O3'-C3'	-9.24	108.61	119.70
84	H5	30	DT	P-O3'-C3'	-9.24	108.61	119.70
148	N5	10	DT	P-O3'-C3'	-9.24	108.61	119.70
158	O5	40	DT	P-O3'-C3'	-9.24	108.61	119.70
180	Q8	20	DT	P-O3'-C3'	-9.24	108.61	119.70
193	RD	18	DT	P-O3'-C3'	-9.24	108.61	119.70
195	S3	13	DT	P-O3'-C3'	-9.24	108.61	119.70
231	W5	15	DT	P-O3'-C3'	-9.24	108.61	119.70
3	A3	11	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	604	DT	P-O3'-C3'	-9.24	108.62	119.70
11	AB	611	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	1894	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2252	DT	P-O3'-C3'	-9.24	108.62	119.70
11	AB	2534	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	2610	DT	P-O3'-C3'	-9.24	108.61	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2880	DT	P-O3'-C3'	-9.24	108.62	119.70
11	AB	3236	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	3662	DT	P-O3'-C3'	-9.24	108.62	119.70
11	AB	3694	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	4152	DT	P-O3'-C3'	-9.24	108.62	119.70
11	AB	6689	DT	P-O3'-C3'	-9.24	108.61	119.70
99	I9	15	DT	P-O3'-C3'	-9.24	108.61	119.70
178	Q5	11	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	4545	DT	P-O3'-C3'	-9.24	108.62	119.70
11	AB	4641	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	5378	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6429	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6885	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	7020	DT	P-O3'-C3'	-9.24	108.61	119.70
82	H2	28	DT	P-O3'-C3'	-9.24	108.61	119.70
11	AB	6185	DT	P-O3'-C3'	-9.24	108.62	119.70
58	ED	35	DT	P-O3'-C3'	-9.24	108.62	119.70
82	H2	33	DT	P-O3'-C3'	-9.24	108.62	119.70
93	I2	47	DT	P-O3'-C3'	-9.24	108.62	119.70
130	L7	20	DT	P-O3'-C3'	-9.24	108.61	119.70
186	R3	17	DT	P-O3'-C3'	-9.24	108.62	119.70
1	A1	30	DT	P-O3'-C3'	-9.23	108.62	119.70
6	A6	15	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	39	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	918	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	1184	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	1832	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	377	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	585	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	1656	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	1690	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	2099	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	2397	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	3084	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	3144	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	3974	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	3826	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	4286	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	4385	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	6271	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	6382	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	6570	DT	P-O3'-C3'	-9.23	108.62	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6720	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	6995	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	7053	DT	P-O3'-C3'	-9.23	108.62	119.70
166	P2	19	DT	P-O3'-C3'	-9.23	108.62	119.70
30	C6	13	DT	P-O3'-C3'	-9.23	108.62	119.70
39	D3	7	DT	P-O3'-C3'	-9.23	108.62	119.70
51	E5	9	DT	P-O3'-C3'	-9.23	108.62	119.70
79	GC	15	DT	P-O3'-C3'	-9.23	108.62	119.70
111	JA	16	DT	P-O3'-C3'	-9.23	108.62	119.70
200	SA	24	DT	P-O3'-C3'	-9.23	108.62	119.70
117	K5	12	DT	P-O3'-C3'	-9.23	108.62	119.70
238	X9	32	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	190	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	593	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	1167	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	6477	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	842	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	1672	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	1692	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	2424	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	2657	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	2845	DT	P-O3'-C3'	-9.23	108.62	119.70
93	I2	8	DT	P-O3'-C3'	-9.23	108.62	119.70
187	R5	32	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	2935	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	3283	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	4254	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	4978	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	6644	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	6910	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	7137	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	7185	DT	P-O3'-C3'	-9.23	108.62	119.70
35	CC	14	DT	P-O3'-C3'	-9.23	108.62	119.70
30	C6	10	DT	P-O3'-C3'	-9.23	108.62	119.70
32	C8	43	DT	P-O3'-C3'	-9.23	108.62	119.70
82	H2	17	DT	P-O3'-C3'	-9.23	108.62	119.70
83	H3	27	DT	P-O3'-C3'	-9.23	108.62	119.70
107	J6	26	DT	P-O3'-C3'	-9.23	108.62	119.70
145	MD	26	DT	P-O3'-C3'	-9.23	108.62	119.70
125	L1	19	DT	P-O3'-C3'	-9.23	108.62	119.70
138	M5	29	DT	P-O3'-C3'	-9.23	108.62	119.70
167	P3	15	DT	P-O3'-C3'	-9.23	108.62	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
209	TA	20	DT	P-O3'-C3'	-9.23	108.62	119.70
209	TA	40	DT	P-O3'-C3'	-9.23	108.62	119.70
228	VC	17	DT	P-O3'-C3'	-9.23	108.62	119.70
238	X9	11	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	3858	DT	P-O3'-C3'	-9.23	108.62	119.70
17	B4	19	DT	P-O3'-C3'	-9.23	108.63	119.70
70	G1	13	DT	P-O3'-C3'	-9.23	108.62	119.70
120	K8	20	DT	P-O3'-C3'	-9.23	108.63	119.70
231	W5	31	DT	P-O3'-C3'	-9.23	108.63	119.70
4	A4	16	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	825	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	1333	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	1903	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	1510	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	1925	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	2151	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	5983	DT	P-O3'-C3'	-9.23	108.63	119.70
103	J1	16	DT	P-O3'-C3'	-9.23	108.62	119.70
11	AB	3002	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	3762	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	4192	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	5097	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	5590	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	6081	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	6334	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	6394	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	6914	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	6960	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	6979	DT	P-O3'-C3'	-9.23	108.63	119.70
43	D8	19	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	6977	DT	P-O3'-C3'	-9.23	108.63	119.70
19	B6	21	DT	P-O3'-C3'	-9.23	108.63	119.70
65	F8	5	DT	P-O3'-C3'	-9.23	108.63	119.70
119	K7	7	DT	P-O3'-C3'	-9.23	108.63	119.70
161	O8	42	DT	P-O3'-C3'	-9.23	108.63	119.70
139	M6	9	DT	P-O3'-C3'	-9.23	108.63	119.70
163	OA	13	DT	P-O3'-C3'	-9.23	108.63	119.70
167	P3	7	DT	P-O3'-C3'	-9.23	108.63	119.70
11	AB	888	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	933	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	1352	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	6741	DT	P-O3'-C3'	-9.22	108.63	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B1	37	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	1561	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	1654	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	2672	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	3989	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	4210	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	4918	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	5100	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	5565	DT	P-O3'-C3'	-9.22	108.63	119.70
107	J6	6	DT	P-O3'-C3'	-9.22	108.63	119.70
230	W3	5	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	4835	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	5197	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	7204	DT	P-O3'-C3'	-9.22	108.63	119.70
100	IA	20	DT	P-O3'-C3'	-9.22	108.63	119.70
128	L5	13	DT	P-O3'-C3'	-9.22	108.63	119.70
158	O5	47	DT	P-O3'-C3'	-9.22	108.63	119.70
187	R5	30	DT	P-O3'-C3'	-9.22	108.63	119.70
209	TA	3	DT	P-O3'-C3'	-9.22	108.63	119.70
214	U5	25	DT	P-O3'-C3'	-9.22	108.63	119.70
223	V5	24	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	625	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	1992	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	4543	DT	P-O3'-C3'	-9.22	108.63	119.70
156	O2	22	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	51	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	1229	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	1305	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	1386	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	3139	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	3564	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	3903	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	6313	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	6534	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	6687	DT	P-O3'-C3'	-9.22	108.63	119.70
11	AB	6806	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	7076	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	7226	DT	P-O3'-C3'	-9.22	108.63	119.70
163	OA	17	DT	P-O3'-C3'	-9.22	108.63	119.70
45	DA	6	DT	P-O3'-C3'	-9.22	108.64	119.70
64	F7	16	DT	P-O3'-C3'	-9.22	108.64	119.70
72	G3	9	DT	P-O3'-C3'	-9.22	108.64	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
237	X7	11	DT	P-O3'-C3'	-9.22	108.63	119.70
209	TA	23	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	569	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	3834	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	4941	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	201	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	1108	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	2108	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	3494	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	4147	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	5077	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	5508	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	6275	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	6409	DT	P-O3'-C3'	-9.22	108.64	119.70
224	V7	14	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	5158	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	5601	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	6277	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	6525	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	6579	DT	P-O3'-C3'	-9.22	108.64	119.70
22	B9	19	DT	P-O3'-C3'	-9.22	108.64	119.70
36	CD	8	DT	P-O3'-C3'	-9.22	108.64	119.70
184	QD	22	DT	P-O3'-C3'	-9.22	108.64	119.70
192	RC	26	DT	P-O3'-C3'	-9.22	108.64	119.70
62	F5	32	DT	P-O3'-C3'	-9.22	108.64	119.70
149	N6	6	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	573	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	1636	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	2026	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	6076	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	812	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	1276	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	1524	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	1547	DT	P-O3'-C3'	-9.22	108.64	119.70
11	AB	3345	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	3920	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	5479	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	6711	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	7181	DT	P-O3'-C3'	-9.22	108.64	119.70
223	V5	4	DT	P-O3'-C3'	-9.22	108.64	119.70
230	W3	30	DT	P-O3'-C3'	-9.22	108.64	119.70
18	B5	1	DT	P-O3'-C3'	-9.21	108.64	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	CD	25	DT	P-O3'-C3'	-9.21	108.64	119.70
55	E9	16	DT	P-O3'-C3'	-9.21	108.64	119.70
109	J8	17	DT	P-O3'-C3'	-9.21	108.64	119.70
178	Q5	21	DT	P-O3'-C3'	-9.21	108.64	119.70
226	V9	12	DT	P-O3'-C3'	-9.22	108.64	119.70
219	UC	23	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	1871	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	185	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	587	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	1931	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	1071	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	2453	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	2663	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	2683	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	2836	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	5940	DT	P-O3'-C3'	-9.21	108.64	119.70
13	AD	8	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	4805	DT	P-O3'-C3'	-9.21	108.65	119.70
18	B5	36	DT	P-O3'-C3'	-9.21	108.64	119.70
57	EC	1	DT	P-O3'-C3'	-9.21	108.64	119.70
62	F5	6	DT	P-O3'-C3'	-9.21	108.65	119.70
156	O2	4	DT	P-O3'-C3'	-9.21	108.64	119.70
172	P9	24	DT	P-O3'-C3'	-9.21	108.64	119.70
207	T8	20	DT	P-O3'-C3'	-9.21	108.64	119.70
11	AB	5528	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	7238	DT	P-O3'-C3'	-9.21	108.65	119.70
93	I2	4	DT	P-O3'-C3'	-9.21	108.65	119.70
146	N2	4	DT	P-O3'-C3'	-9.21	108.65	119.70
165	OD	43	DT	P-O3'-C3'	-9.21	108.65	119.70
191	RA	24	DT	P-O3'-C3'	-9.21	108.65	119.70
233	W8	7	DT	P-O3'-C3'	-9.21	108.65	119.70
3	A3	1	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	1206	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	2991	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	3158	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	3630	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	4230	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	4301	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	4614	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	4828	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	5139	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	6156	DT	P-O3'-C3'	-9.21	108.65	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6215	DT	P-O3'-C3'	-9.21	108.65	119.70
167	P3	34	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	6411	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	6432	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	6947	DT	P-O3'-C3'	-9.21	108.65	119.70
64	F7	6	DT	P-O3'-C3'	-9.21	108.65	119.70
75	G7	14	DT	P-O3'-C3'	-9.21	108.65	119.70
149	N6	31	DT	P-O3'-C3'	-9.21	108.65	119.70
171	P8	10	DT	P-O3'-C3'	-9.21	108.65	119.70
211	TD	37	DT	P-O3'-C3'	-9.21	108.65	119.70
194	S2	1	DT	P-O3'-C3'	-9.21	108.65	119.70
220	UD	12	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	836	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	1435	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	3271	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	3792	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	4198	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	5662	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	4595	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	6604	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	6818	DT	P-O3'-C3'	-9.21	108.65	119.70
45	DA	24	DT	P-O3'-C3'	-9.21	108.65	119.70
47	DD	7	DT	P-O3'-C3'	-9.21	108.65	119.70
108	J7	27	DT	P-O3'-C3'	-9.21	108.65	119.70
135	LD	16	DT	P-O3'-C3'	-9.21	108.65	119.70
11	AB	4218	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	4691	DT	P-O3'-C3'	-9.20	108.66	119.70
101	IC	16	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	2265	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	3120	DT	P-O3'-C3'	-9.20	108.66	119.70
104	J2	31	DT	P-O3'-C3'	-9.20	108.66	119.70
150	N7	8	DT	P-O3'-C3'	-9.20	108.66	119.70
161	O8	37	DT	P-O3'-C3'	-9.20	108.66	119.70
220	UD	5	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	710	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	822	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	3165	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	948	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	5213	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	5862	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	6938	DT	P-O3'-C3'	-9.20	108.66	119.70
21	B8	10	DT	P-O3'-C3'	-9.20	108.66	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
122	KA	17	DT	P-O3'-C3'	-9.20	108.66	119.70
128	L5	5	DT	P-O3'-C3'	-9.20	108.66	119.70
151	N8	8	DT	P-O3'-C3'	-9.20	108.66	119.70
171	P8	6	DT	P-O3'-C3'	-9.20	108.66	119.70
197	S7	14	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	1912	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	4012	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	4503	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	5185	DT	P-O3'-C3'	-9.20	108.66	119.70
54	E8	17	DT	P-O3'-C3'	-9.20	108.66	119.70
71	G2	7	DT	P-O3'-C3'	-9.20	108.67	119.70
181	Q9	14	DT	P-O3'-C3'	-9.20	108.66	119.70
184	QD	19	DT	P-O3'-C3'	-9.20	108.66	119.70
198	S8	13	DT	P-O3'-C3'	-9.20	108.66	119.70
11	AB	1959	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	2141	DT	P-O3'-C3'	-9.20	108.67	119.70
11	AB	3508	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	3829	DT	P-O3'-C3'	-9.20	108.67	119.70
11	AB	4006	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	4770	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	5512	DT	P-O3'-C3'	-9.19	108.67	119.70
43	D8	30	DT	P-O3'-C3'	-9.20	108.67	119.70
58	ED	38	DT	P-O3'-C3'	-9.20	108.67	119.70
188	R7	19	DT	P-O3'-C3'	-9.20	108.67	119.70
122	KA	30	DT	P-O3'-C3'	-9.19	108.67	119.70
171	P8	13	DT	P-O3'-C3'	-9.20	108.67	119.70
199	S9	14	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	5458	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	5599	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	1242	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	1597	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	2175	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	5588	DT	P-O3'-C3'	-9.19	108.67	119.70
156	O2	13	DT	P-O3'-C3'	-9.19	108.67	119.70
205	T5	7	DT	P-O3'-C3'	-9.19	108.67	119.70
72	G3	1	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	2839	DT	P-O3'-C3'	-9.19	108.68	119.70
11	AB	2968	DT	P-O3'-C3'	-9.19	108.68	119.70
11	AB	3010	DT	P-O3'-C3'	-9.19	108.68	119.70
11	AB	4869	DT	P-O3'-C3'	-9.19	108.67	119.70
11	AB	7044	DT	P-O3'-C3'	-9.19	108.68	119.70
11	AB	6875	DT	P-O3'-C3'	-9.19	108.68	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
138	M5	12	DT	P-O3'-C3'	-9.19	108.68	119.70
181	Q9	36	DT	P-O3'-C3'	-9.19	108.68	119.70
192	RC	22	DT	P-O3'-C3'	-9.19	108.67	119.70
170	P7	6	DT	P-O3'-C3'	-9.18	108.68	119.70
11	AB	1953	DT	P-O3'-C3'	-9.18	108.68	119.70
11	AB	4529	DT	P-O3'-C3'	-9.18	108.68	119.70
11	AB	6880	DT	P-O3'-C3'	-9.18	108.68	119.70
11	AB	2520	DT	P-O3'-C3'	-9.18	108.69	119.70
11	AB	1813	DT	P-O3'-C3'	-9.18	108.69	119.70
11	AB	2822	DT	P-O3'-C3'	-9.18	108.69	119.70
11	AB	1189	DT	P-O3'-C3'	-9.17	108.69	119.70
11	AB	3148	DT	P-O3'-C3'	-9.17	108.69	119.70
88	H9	4	DT	P-O3'-C3'	-9.17	108.69	119.70
11	AB	6658	DT	P-O3'-C3'	-9.17	108.70	119.70
11	AB	7057	DT	P-O3'-C3'	-9.17	108.70	119.70
11	AB	6861	DT	P-O3'-C3'	-9.17	108.70	119.70
213	U3	21	DT	P-O3'-C3'	-9.17	108.70	119.70
11	AB	5074	DT	P-O3'-C3'	-9.16	108.70	119.70
39	D3	5	DT	P-O3'-C3'	-9.16	108.70	119.70
11	AB	3436	DT	P-O3'-C3'	-9.16	108.71	119.70
212	U2	18	DT	P-O3'-C3'	-9.14	108.73	119.70
11	AB	262	DT	P-O3'-C3'	-9.12	108.76	119.70
53	E7	4	DA	O3'-P-O5'	-9.11	86.68	104.00
191	RA	16	DA	O3'-P-O5'	-9.11	86.68	104.00
11	AB	4620	DA	O3'-P-O5'	-9.11	86.69	104.00
11	AB	5507	DA	O3'-P-O5'	-9.11	86.69	104.00
138	M5	19	DA	O3'-P-O5'	-9.11	86.69	104.00
11	AB	5816	DA	O3'-P-O5'	-9.11	86.69	104.00
94	I3	6	DA	O3'-P-O5'	-9.11	86.70	104.00
102	ID	6	DA	O3'-P-O5'	-9.11	86.70	104.00
11	AB	2085	DA	O3'-P-O5'	-9.11	86.70	104.00
11	AB	655	DA	O3'-P-O5'	-9.10	86.70	104.00
11	AB	1963	DA	O3'-P-O5'	-9.10	86.70	104.00
51	E5	20	DA	O3'-P-O5'	-9.10	86.70	104.00
149	N6	15	DA	O3'-P-O5'	-9.10	86.70	104.00
206	T7	25	DA	O3'-P-O5'	-9.10	86.70	104.00
226	V9	26	DA	O3'-P-O5'	-9.10	86.70	104.00
11	AB	850	DA	O3'-P-O5'	-9.10	86.71	104.00
11	AB	1990	DA	O3'-P-O5'	-9.10	86.71	104.00
11	AB	2506	DA	O3'-P-O5'	-9.10	86.71	104.00
11	AB	5369	DA	O3'-P-O5'	-9.10	86.70	104.00
11	AB	3303	DA	O3'-P-O5'	-9.10	86.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
228	VC	26	DA	O3'-P-O5'	-9.10	86.71	104.00
11	AB	1945	DA	O3'-P-O5'	-9.10	86.71	104.00
11	AB	2702	DA	O3'-P-O5'	-9.10	86.71	104.00
66	F9	20	DA	O3'-P-O5'	-9.10	86.71	104.00
80	GD	6	DA	O3'-P-O5'	-9.10	86.71	104.00
11	AB	2804	DA	O3'-P-O5'	-9.10	86.72	104.00
11	AB	3119	DA	O3'-P-O5'	-9.10	86.72	104.00
11	AB	3857	DA	O3'-P-O5'	-9.10	86.72	104.00
11	AB	5811	DA	O3'-P-O5'	-9.10	86.72	104.00
23	BA	31	DA	O3'-P-O5'	-9.10	86.72	104.00
55	E9	8	DA	O3'-P-O5'	-9.10	86.72	104.00
160	O7	49	DA	O3'-P-O5'	-9.10	86.72	104.00
188	R7	18	DA	O3'-P-O5'	-9.10	86.72	104.00
10	AA	6	DA	O3'-P-O5'	-9.10	86.72	104.00
11	AB	193	DA	O3'-P-O5'	-9.10	86.72	104.00
11	AB	2350	DA	O3'-P-O5'	-9.10	86.72	104.00
11	AB	3029	DA	O3'-P-O5'	-9.10	86.72	104.00
11	AB	4793	DA	O3'-P-O5'	-9.10	86.72	104.00
11	AB	5726	DA	O3'-P-O5'	-9.10	86.72	104.00
11	AB	5934	DA	O3'-P-O5'	-9.10	86.72	104.00
23	BA	21	DA	O3'-P-O5'	-9.10	86.72	104.00
89	HA	14	DA	O3'-P-O5'	-9.10	86.72	104.00
105	J3	11	DA	O3'-P-O5'	-9.10	86.72	104.00
107	J6	30	DA	O3'-P-O5'	-9.10	86.72	104.00
123	KC	5	DA	O3'-P-O5'	-9.10	86.72	104.00
211	TD	24	DA	O3'-P-O5'	-9.10	86.72	104.00
225	V8	7	DA	O3'-P-O5'	-9.10	86.72	104.00
11	AB	2088	DA	O3'-P-O5'	-9.09	86.72	104.00
11	AB	644	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	1024	DA	O3'-P-O5'	-9.09	86.72	104.00
11	AB	1222	DA	O3'-P-O5'	-9.09	86.72	104.00
11	AB	2866	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	3714	DA	O3'-P-O5'	-9.09	86.72	104.00
30	C6	9	DA	O3'-P-O5'	-9.09	86.72	104.00
72	G3	17	DA	O3'-P-O5'	-9.09	86.72	104.00
208	T9	5	DA	O3'-P-O5'	-9.09	86.72	104.00
222	V3	1	DA	O3'-P-O5'	-9.09	86.72	104.00
11	AB	4616	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	4679	DA	O3'-P-O5'	-9.09	86.72	104.00
58	ED	40	DA	O3'-P-O5'	-9.09	86.73	104.00
74	G6	24	DA	O3'-P-O5'	-9.09	86.73	104.00
146	N2	17	DA	O3'-P-O5'	-9.09	86.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
199	S9	13	DA	O3'-P-O5'	-9.09	86.72	104.00
213	U3	2	DA	O3'-P-O5'	-9.09	86.73	104.00
7	A7	12	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	606	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	811	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	1312	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	1342	DT	P-O3'-C3'	-9.09	108.79	119.70
11	AB	1999	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	2029	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	2362	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	2440	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	3482	DA	O3'-P-O5'	-9.09	86.73	104.00
44	D9	5	DA	O3'-P-O5'	-9.09	86.73	104.00
178	Q5	10	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	2809	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	2827	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	3326	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	5305	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	3710	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	3947	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	6070	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	6342	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	6482	DA	O3'-P-O5'	-9.09	86.73	104.00
152	N9	39	DA	O3'-P-O5'	-9.09	86.73	104.00
157	O3	22	DA	O3'-P-O5'	-9.09	86.73	104.00
173	PA	15	DA	O3'-P-O5'	-9.09	86.73	104.00
182	QA	26	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	3007	DA	O3'-P-O5'	-9.09	86.73	104.00
138	M5	25	DA	O3'-P-O5'	-9.09	86.73	104.00
7	A7	18	DA	O3'-P-O5'	-9.09	86.74	104.00
11	AB	371	DA	O3'-P-O5'	-9.09	86.74	104.00
11	AB	393	DA	O3'-P-O5'	-9.09	86.74	104.00
11	AB	2502	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	2966	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	4796	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	6560	DA	O3'-P-O5'	-9.09	86.73	104.00
152	N9	16	DA	O3'-P-O5'	-9.09	86.73	104.00
11	AB	1219	DA	O3'-P-O5'	-9.09	86.74	104.00
11	AB	6080	DA	O3'-P-O5'	-9.09	86.74	104.00
11	AB	6320	DA	O3'-P-O5'	-9.09	86.74	104.00
13	AD	7	DA	O3'-P-O5'	-9.09	86.74	104.00
40	D5	11	DA	O3'-P-O5'	-9.09	86.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	DA	23	DA	O3'-P-O5'	-9.09	86.74	104.00
61	F3	2	DA	O3'-P-O5'	-9.09	86.73	104.00
117	K5	33	DA	O3'-P-O5'	-9.09	86.73	104.00
183	QC	8	DA	O3'-P-O5'	-9.09	86.73	104.00
237	X7	21	DA	O3'-P-O5'	-9.09	86.73	104.00
62	F5	5	DA	O3'-P-O5'	-9.09	86.74	104.00
81	H1	7	DA	O3'-P-O5'	-9.09	86.74	104.00
86	H7	7	DA	O3'-P-O5'	-9.09	86.74	104.00
119	K7	36	DA	O3'-P-O5'	-9.09	86.74	104.00
126	L2	30	DA	O3'-P-O5'	-9.09	86.74	104.00
150	N7	7	DA	O3'-P-O5'	-9.09	86.74	104.00
162	O9	12	DA	O3'-P-O5'	-9.09	86.74	104.00
198	S8	42	DA	O3'-P-O5'	-9.09	86.74	104.00
229	VD	19	DA	O3'-P-O5'	-9.09	86.74	104.00
1	A1	55	DA	O3'-P-O5'	-9.08	86.74	104.00
2	A2	9	DA	O3'-P-O5'	-9.08	86.74	104.00
5	A5	5	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	2428	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	2964	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	4675	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	6311	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	6801	DA	O3'-P-O5'	-9.08	86.74	104.00
82	H2	15	DA	O3'-P-O5'	-9.08	86.74	104.00
112	JC	16	DA	O3'-P-O5'	-9.08	86.74	104.00
120	K8	18	DA	O3'-P-O5'	-9.08	86.74	104.00
142	M9	9	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	2487	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	3279	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	3507	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	3701	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	3772	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	3929	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	4767	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	6656	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	6891	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	6894	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	7093	DA	O3'-P-O5'	-9.08	86.74	104.00
217	U9	25	DA	O3'-P-O5'	-9.08	86.74	104.00
40	D5	8	DA	O3'-P-O5'	-9.08	86.75	104.00
43	D8	43	DA	O3'-P-O5'	-9.08	86.74	104.00
45	DA	5	DA	O3'-P-O5'	-9.08	86.74	104.00
98	I8	41	DA	O3'-P-O5'	-9.08	86.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
112	JC	25	DA	O3'-P-O5'	-9.08	86.74	104.00
143	MA	7	DA	O3'-P-O5'	-9.08	86.74	104.00
158	O5	29	DA	O3'-P-O5'	-9.08	86.74	104.00
223	V5	39	DA	O3'-P-O5'	-9.08	86.74	104.00
165	OD	46	DA	O3'-P-O5'	-9.08	86.74	104.00
177	Q3	16	DA	O3'-P-O5'	-9.08	86.75	104.00
193	RD	9	DA	O3'-P-O5'	-9.08	86.74	104.00
200	SA	22	DA	O3'-P-O5'	-9.08	86.74	104.00
215	U7	8	DA	O3'-P-O5'	-9.08	86.74	104.00
221	V2	21	DA	O3'-P-O5'	-9.08	86.74	104.00
238	X9	8	DA	O3'-P-O5'	-9.08	86.74	104.00
11	AB	5627	DA	O3'-P-O5'	-9.08	86.75	104.00
206	T7	44	DA	O3'-P-O5'	-9.08	86.75	104.00
7	A7	9	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	238	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	1069	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	2838	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	1014	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	1688	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	2120	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	2410	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	2706	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	2870	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	6171	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	2999	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	3328	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	3335	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	3785	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	3787	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	4272	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	4281	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	4300	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	4612	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	5073	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	5088	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	5374	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	5579	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	5879	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	6173	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	6955	DA	O3'-P-O5'	-9.08	86.75	104.00
29	C5	36	DA	O3'-P-O5'	-9.08	86.75	104.00
69	FD	12	DA	O3'-P-O5'	-9.08	86.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7086	DA	O3'-P-O5'	-9.08	86.75	104.00
67	FA	9	DA	O3'-P-O5'	-9.08	86.75	104.00
112	JC	18	DA	O3'-P-O5'	-9.08	86.75	104.00
119	K7	23	DA	O3'-P-O5'	-9.08	86.75	104.00
125	L1	18	DA	O3'-P-O5'	-9.08	86.75	104.00
129	L6	18	DA	O3'-P-O5'	-9.08	86.75	104.00
138	M5	17	DA	O3'-P-O5'	-9.08	86.75	104.00
139	M6	8	DA	O3'-P-O5'	-9.08	86.75	104.00
140	M7	4	DA	O3'-P-O5'	-9.08	86.75	104.00
155	ND	16	DA	O3'-P-O5'	-9.08	86.75	104.00
184	QD	18	DA	O3'-P-O5'	-9.08	86.75	104.00
190	R9	35	DA	O3'-P-O5'	-9.08	86.75	104.00
193	RD	11	DA	O3'-P-O5'	-9.08	86.75	104.00
198	S8	39	DA	O3'-P-O5'	-9.08	86.75	104.00
211	TD	36	DA	O3'-P-O5'	-9.08	86.75	104.00
217	U9	17	DA	O3'-P-O5'	-9.08	86.75	104.00
219	UC	22	DA	O3'-P-O5'	-9.08	86.75	104.00
5	A5	16	DA	O3'-P-O5'	-9.08	86.75	104.00
10	AA	15	DA	O3'-P-O5'	-9.08	86.76	104.00
11	AB	616	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	631	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	809	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	1709	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	1830	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	2285	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	2813	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	3348	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	6263	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	6663	DA	O3'-P-O5'	-9.08	86.75	104.00
121	K9	15	DA	O3'-P-O5'	-9.08	86.75	104.00
225	V8	15	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	3026	DA	O3'-P-O5'	-9.08	86.76	104.00
11	AB	4723	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	4803	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	5157	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	5613	DA	O3'-P-O5'	-9.08	86.75	104.00
160	O7	18	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	5638	DA	O3'-P-O5'	-9.08	86.76	104.00
11	AB	6501	DA	O3'-P-O5'	-9.08	86.76	104.00
11	AB	6648	DA	O3'-P-O5'	-9.08	86.75	104.00
16	B3	7	DA	O3'-P-O5'	-9.08	86.76	104.00
62	F5	37	DA	O3'-P-O5'	-9.08	86.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
115	K2	5	DA	O3'-P-O5'	-9.08	86.76	104.00
115	K2	25	DA	O3'-P-O5'	-9.08	86.75	104.00
189	R8	5	DA	O3'-P-O5'	-9.08	86.75	104.00
208	T9	11	DA	O3'-P-O5'	-9.08	86.75	104.00
222	V3	18	DA	O3'-P-O5'	-9.08	86.75	104.00
230	W3	10	DA	O3'-P-O5'	-9.08	86.75	104.00
236	X5	22	DA	O3'-P-O5'	-9.08	86.75	104.00
11	AB	247	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	3286	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	5316	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	5921	DA	O3'-P-O5'	-9.07	86.76	104.00
75	G7	13	DA	O3'-P-O5'	-9.07	86.76	104.00
103	J1	10	DA	O3'-P-O5'	-9.07	86.76	104.00
122	KA	19	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	233	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	381	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	403	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	979	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	1234	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	1378	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	1382	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	1683	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	1837	DA	O3'-P-O5'	-9.07	86.76	104.00
49	E2	8	DA	O3'-P-O5'	-9.07	86.76	104.00
64	F7	3	DA	O3'-P-O5'	-9.07	86.76	104.00
86	H7	15	DA	O3'-P-O5'	-9.07	86.76	104.00
99	I9	12	DA	O3'-P-O5'	-9.07	86.76	104.00
128	L5	12	DA	O3'-P-O5'	-9.07	86.76	104.00
237	X7	2	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	2092	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	2271	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	3126	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	5881	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	6008	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	6596	DA	O3'-P-O5'	-9.07	86.76	104.00
31	C7	10	DA	O3'-P-O5'	-9.07	86.76	104.00
130	L7	53	DA	O3'-P-O5'	-9.07	86.76	104.00
39	D3	21	DA	O3'-P-O5'	-9.07	86.76	104.00
57	EC	19	DA	O3'-P-O5'	-9.07	86.76	104.00
62	F5	35	DA	O3'-P-O5'	-9.07	86.76	104.00
74	G6	27	DA	O3'-P-O5'	-9.07	86.76	104.00
109	J8	16	DA	O3'-P-O5'	-9.07	86.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
132	L9	17	DA	O3'-P-O5'	-9.07	86.76	104.00
152	N9	49	DA	O3'-P-O5'	-9.07	86.76	104.00
190	R9	33	DA	O3'-P-O5'	-9.07	86.76	104.00
195	S3	27	DA	O3'-P-O5'	-9.07	86.76	104.00
210	TC	14	DA	O3'-P-O5'	-9.07	86.76	104.00
219	UC	35	DA	O3'-P-O5'	-9.07	86.76	104.00
220	UD	4	DA	O3'-P-O5'	-9.07	86.76	104.00
221	V2	3	DA	O3'-P-O5'	-9.07	86.76	104.00
230	W3	27	DA	O3'-P-O5'	-9.07	86.76	104.00
1	A1	37	DA	O3'-P-O5'	-9.07	86.76	104.00
3	A3	15	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	598	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	1021	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	1156	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	1232	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	1308	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	1532	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	1956	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	2065	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	3282	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	3299	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	3845	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	4848	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	6316	DA	O3'-P-O5'	-9.07	86.76	104.00
13	AD	19	DA	O3'-P-O5'	-9.07	86.76	104.00
98	I8	28	DA	O3'-P-O5'	-9.07	86.77	104.00
125	L1	42	DA	O3'-P-O5'	-9.07	86.76	104.00
126	L2	14	DA	O3'-P-O5'	-9.07	86.76	104.00
142	M9	2	DA	O3'-P-O5'	-9.07	86.76	104.00
163	OA	16	DA	O3'-P-O5'	-9.07	86.76	104.00
170	P7	5	DA	O3'-P-O5'	-9.07	86.76	104.00
4	A4	15	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	562	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	729	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	973	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	1715	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	2200	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	4352	DA	O3'-P-O5'	-9.07	86.77	104.00
114	K1	36	DA	O3'-P-O5'	-9.07	86.76	104.00
165	OD	48	DA	O3'-P-O5'	-9.07	86.76	104.00
226	V9	32	DA	O3'-P-O5'	-9.07	86.76	104.00
11	AB	2404	DA	O3'-P-O5'	-9.07	86.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2492	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	2574	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	2710	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	2989	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	3128	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	3131	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	4528	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	5221	DA	O3'-P-O5'	-9.07	86.77	104.00
149	N6	33	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	3613	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	5162	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	5226	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	5518	DA	O3'-P-O5'	-9.07	86.77	104.00
156	O2	3	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	5536	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	5873	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	6428	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	6944	DA	O3'-P-O5'	-9.07	86.77	104.00
36	CD	24	DA	O3'-P-O5'	-9.07	86.77	104.00
109	J8	20	DA	O3'-P-O5'	-9.07	86.77	104.00
47	DD	13	DA	O3'-P-O5'	-9.07	86.77	104.00
55	E9	15	DA	O3'-P-O5'	-9.07	86.77	104.00
58	ED	25	DA	O3'-P-O5'	-9.07	86.77	104.00
88	H9	8	DA	O3'-P-O5'	-9.07	86.77	104.00
142	M9	11	DA	O3'-P-O5'	-9.07	86.77	104.00
156	O2	36	DA	O3'-P-O5'	-9.07	86.77	104.00
157	O3	21	DA	O3'-P-O5'	-9.07	86.77	104.00
165	OD	24	DA	O3'-P-O5'	-9.07	86.77	104.00
167	P3	5	DA	O3'-P-O5'	-9.07	86.77	104.00
226	V9	10	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	1098	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	1297	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	3659	DA	O3'-P-O5'	-9.07	86.77	104.00
112	JC	24	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	171	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	432	DT	P-O3'-C3'	-9.07	108.82	119.70
11	AB	692	DA	O3'-P-O5'	-9.07	86.78	104.00
11	AB	821	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	1401	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	1544	DA	O3'-P-O5'	-9.07	86.78	104.00
11	AB	1549	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	1582	DA	O3'-P-O5'	-9.07	86.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1842	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	2104	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	2422	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	3125	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	3134	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	3176	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	3438	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	3693	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	4761	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	5285	DA	O3'-P-O5'	-9.07	86.77	104.00
12	AC	9	DA	O3'-P-O5'	-9.07	86.77	104.00
156	O2	24	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	5452	DA	O3'-P-O5'	-9.07	86.78	104.00
11	AB	5708	DA	O3'-P-O5'	-9.07	86.78	104.00
11	AB	5807	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	6006	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	6068	DA	O3'-P-O5'	-9.07	86.77	104.00
36	CD	21	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	6236	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	6507	DA	O3'-P-O5'	-9.07	86.77	104.00
11	AB	6643	DA	O3'-P-O5'	-9.07	86.78	104.00
11	AB	6748	DA	O3'-P-O5'	-9.07	86.78	104.00
22	B9	1	DA	O3'-P-O5'	-9.07	86.77	104.00
40	D5	13	DA	O3'-P-O5'	-9.07	86.78	104.00
40	D5	14	DA	O3'-P-O5'	-9.07	86.77	104.00
119	K7	5	DA	O3'-P-O5'	-9.07	86.77	104.00
53	E7	8	DA	O3'-P-O5'	-9.07	86.78	104.00
55	E9	31	DA	O3'-P-O5'	-9.07	86.78	104.00
73	G5	9	DA	O3'-P-O5'	-9.07	86.77	104.00
92	I1	19	DA	O3'-P-O5'	-9.07	86.78	104.00
93	I2	32	DA	O3'-P-O5'	-9.07	86.77	104.00
109	J8	31	DA	O3'-P-O5'	-9.07	86.77	104.00
114	K1	12	DA	O3'-P-O5'	-9.07	86.77	104.00
157	O3	3	DA	O3'-P-O5'	-9.07	86.77	104.00
161	O8	3	DA	O3'-P-O5'	-9.07	86.77	104.00
180	Q8	17	DA	O3'-P-O5'	-9.07	86.77	104.00
222	V3	22	DA	O3'-P-O5'	-9.07	86.77	104.00
181	Q9	27	DA	O3'-P-O5'	-9.07	86.77	104.00
223	V5	14	DA	O3'-P-O5'	-9.07	86.77	104.00
226	V9	8	DA	O3'-P-O5'	-9.07	86.77	104.00
228	VC	36	DA	O3'-P-O5'	-9.07	86.78	104.00
8	A8	17	DA	O3'-P-O5'	-9.06	86.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	647	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	1301	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	1568	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	1805	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	1860	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	2068	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	2600	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	3024	DA	O3'-P-O5'	-9.06	86.78	104.00
221	V2	25	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	2677	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	2796	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	3173	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	3179	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	3337	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	3481	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	3570	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	3558	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	3850	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	4010	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	4669	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	5456	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	5516	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	5689	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	6160	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	6322	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	6811	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	7203	DA	O3'-P-O5'	-9.06	86.78	104.00
18	B5	34	DA	O3'-P-O5'	-9.06	86.78	104.00
158	O5	15	DA	O3'-P-O5'	-9.06	86.78	104.00
14	B1	13	DA	O3'-P-O5'	-9.06	86.78	104.00
36	CD	15	DA	O3'-P-O5'	-9.06	86.78	104.00
41	D6	30	DA	O3'-P-O5'	-9.06	86.78	104.00
49	E2	10	DA	O3'-P-O5'	-9.06	86.78	104.00
75	G7	16	DA	O3'-P-O5'	-9.06	86.78	104.00
106	J5	25	DA	O3'-P-O5'	-9.06	86.78	104.00
145	MD	36	DA	O3'-P-O5'	-9.06	86.78	104.00
183	QC	12	DA	O3'-P-O5'	-9.06	86.78	104.00
221	V2	13	DA	O3'-P-O5'	-9.06	86.78	104.00
237	X7	18	DA	O3'-P-O5'	-9.06	86.78	104.00
54	E8	10	DA	O3'-P-O5'	-9.06	86.78	104.00
89	HA	5	DA	O3'-P-O5'	-9.06	86.78	104.00
118	K6	5	DA	O3'-P-O5'	-9.06	86.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
149	N6	8	DA	O3'-P-O5'	-9.06	86.78	104.00
157	O3	2	DA	O3'-P-O5'	-9.06	86.78	104.00
180	Q8	19	DA	O3'-P-O5'	-9.06	86.78	104.00
233	W8	24	DA	O3'-P-O5'	-9.06	86.78	104.00
3	A3	3	DA	O3'-P-O5'	-9.06	86.78	104.00
10	AA	13	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	251	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	1141	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	1253	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	1565	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	2860	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	5400	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	5712	DA	O3'-P-O5'	-9.06	86.78	104.00
181	Q9	13	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	568	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	723	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	1374	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	1986	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	2135	DT	P-O3'-C3'	-9.06	108.83	119.70
11	AB	2490	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	2689	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	3178	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	4521	DA	O3'-P-O5'	-9.06	86.78	104.00
88	H9	6	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	4423	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	4674	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	5138	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	5540	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	5804	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	6012	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	6165	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	6248	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	6416	DA	O3'-P-O5'	-9.06	86.78	104.00
44	D9	2	DA	O3'-P-O5'	-9.06	86.78	104.00
109	J8	4	DA	O3'-P-O5'	-9.06	86.78	104.00
149	N6	13	DA	O3'-P-O5'	-9.06	86.78	104.00
170	P7	9	DA	O3'-P-O5'	-9.06	86.78	104.00
215	U7	3	DA	O3'-P-O5'	-9.06	86.78	104.00
230	W3	4	DA	O3'-P-O5'	-9.06	86.78	104.00
25	BD	22	DA	O3'-P-O5'	-9.06	86.79	104.00
43	D8	41	DA	O3'-P-O5'	-9.06	86.78	104.00
72	G3	8	DA	O3'-P-O5'	-9.06	86.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
110	J9	12	DA	O3'-P-O5'	-9.06	86.78	104.00
126	L2	33	DA	O3'-P-O5'	-9.06	86.79	104.00
160	O7	17	DA	O3'-P-O5'	-9.06	86.78	104.00
182	QA	3	DA	O3'-P-O5'	-9.06	86.79	104.00
215	U7	5	DA	O3'-P-O5'	-9.06	86.78	104.00
216	U8	8	DA	O3'-P-O5'	-9.06	86.78	104.00
224	V7	13	DA	O3'-P-O5'	-9.06	86.79	104.00
237	X7	9	DA	O3'-P-O5'	-9.06	86.78	104.00
11	AB	1321	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	1497	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	1857	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	2358	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	2407	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	2903	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	2970	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	3118	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	3137	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	3771	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	3932	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	5786	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	7042	DA	O3'-P-O5'	-9.06	86.79	104.00
51	E5	18	DA	O3'-P-O5'	-9.06	86.79	104.00
130	L7	26	DA	O3'-P-O5'	-9.06	86.79	104.00
152	N9	15	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	4432	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	5007	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	5692	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	6093	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	6641	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	6666	DA	O3'-P-O5'	-9.06	86.79	104.00
146	N2	20	DA	O3'-P-O5'	-9.06	86.79	104.00
152	N9	51	DA	O3'-P-O5'	-9.06	86.79	104.00
29	C5	7	DA	O3'-P-O5'	-9.06	86.79	104.00
50	E3	18	DA	O3'-P-O5'	-9.06	86.79	104.00
60	F2	15	DA	O3'-P-O5'	-9.06	86.79	104.00
64	F7	2	DA	O3'-P-O5'	-9.06	86.79	104.00
71	G2	11	DA	O3'-P-O5'	-9.06	86.79	104.00
89	HA	8	DA	O3'-P-O5'	-9.06	86.79	104.00
93	I2	10	DA	O3'-P-O5'	-9.06	86.79	104.00
94	I3	8	DA	O3'-P-O5'	-9.06	86.79	104.00
94	I3	9	DA	O3'-P-O5'	-9.06	86.79	104.00
94	I3	23	DA	O3'-P-O5'	-9.06	86.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
130	L7	12	DA	O3'-P-O5'	-9.06	86.79	104.00
130	L7	27	DA	O3'-P-O5'	-9.06	86.79	104.00
185	R2	21	DA	O3'-P-O5'	-9.06	86.79	104.00
136	M2	20	DA	O3'-P-O5'	-9.06	86.79	104.00
146	N2	19	DA	O3'-P-O5'	-9.06	86.79	104.00
206	T7	16	DA	O3'-P-O5'	-9.06	86.79	104.00
219	UC	32	DA	O3'-P-O5'	-9.06	86.79	104.00
233	W8	22	DA	O3'-P-O5'	-9.06	86.79	104.00
235	WD	9	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	567	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	619	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	2112	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	2191	DA	O3'-P-O5'	-9.06	86.80	104.00
11	AB	2504	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	2772	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	3196	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	4932	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	5014	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	5723	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	6563	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	6959	DA	O3'-P-O5'	-9.06	86.79	104.00
12	AC	11	DA	O3'-P-O5'	-9.06	86.79	104.00
47	DD	17	DA	O3'-P-O5'	-9.06	86.79	104.00
198	S8	30	DA	O3'-P-O5'	-9.06	86.79	104.00
229	VD	9	DA	O3'-P-O5'	-9.06	86.79	104.00
4	A4	21	DA	O3'-P-O5'	-9.05	86.80	104.00
8	A8	19	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	1538	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	7211	DA	O3'-P-O5'	-9.05	86.80	104.00
47	DD	21	DA	O3'-P-O5'	-9.05	86.80	104.00
101	IC	11	DA	O3'-P-O5'	-9.06	86.79	104.00
103	J1	15	DA	O3'-P-O5'	-9.06	86.79	104.00
122	KA	16	DA	O3'-P-O5'	-9.06	86.79	104.00
11	AB	2709	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	2719	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	2841	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	3172	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	3189	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	4234	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	4416	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	5236	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	5296	DA	O3'-P-O5'	-9.05	86.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5373	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	6798	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	5442	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	5707	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	6739	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	7212	DA	O3'-P-O5'	-9.05	86.80	104.00
15	B2	11	DA	O3'-P-O5'	-9.05	86.80	104.00
26	C1	17	DA	O3'-P-O5'	-9.05	86.80	104.00
30	C6	8	DA	O3'-P-O5'	-9.05	86.80	104.00
39	D3	24	DA	O3'-P-O5'	-9.05	86.80	104.00
47	DD	23	DA	O3'-P-O5'	-9.05	86.80	104.00
53	E7	7	DA	O3'-P-O5'	-9.05	86.80	104.00
105	J3	5	DA	O3'-P-O5'	-9.05	86.80	104.00
120	K8	22	DA	O3'-P-O5'	-9.05	86.80	104.00
183	QC	14	DA	O3'-P-O5'	-9.05	86.80	104.00
49	E2	14	DA	O3'-P-O5'	-9.05	86.80	104.00
58	ED	34	DA	O3'-P-O5'	-9.05	86.80	104.00
82	H2	49	DA	O3'-P-O5'	-9.05	86.80	104.00
99	I9	4	DA	O3'-P-O5'	-9.05	86.80	104.00
105	J3	10	DA	O3'-P-O5'	-9.05	86.80	104.00
124	KD	11	DA	O3'-P-O5'	-9.05	86.80	104.00
107	J6	29	DA	O3'-P-O5'	-9.05	86.80	104.00
108	J7	47	DA	O3'-P-O5'	-9.05	86.80	104.00
142	M9	7	DA	O3'-P-O5'	-9.05	86.80	104.00
178	Q5	34	DA	O3'-P-O5'	-9.05	86.80	104.00
130	L7	44	DA	O3'-P-O5'	-9.05	86.80	104.00
138	M5	8	DA	O3'-P-O5'	-9.05	86.80	104.00
155	ND	15	DA	O3'-P-O5'	-9.05	86.80	104.00
190	R9	42	DA	O3'-P-O5'	-9.05	86.80	104.00
191	RA	30	DA	O3'-P-O5'	-9.05	86.80	104.00
199	S9	1	DA	O3'-P-O5'	-9.05	86.80	104.00
211	TD	27	DA	O3'-P-O5'	-9.05	86.80	104.00
225	V8	14	DA	O3'-P-O5'	-9.05	86.80	104.00
229	VD	18	DA	O3'-P-O5'	-9.05	86.80	104.00
236	X5	24	DA	O3'-P-O5'	-9.05	86.80	104.00
238	X9	56	DA	O3'-P-O5'	-9.05	86.80	104.00
1	A1	8	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	2737	DA	O3'-P-O5'	-9.05	86.80	104.00
222	V3	13	DA	O3'-P-O5'	-9.05	86.80	104.00
1	A1	36	DA	O3'-P-O5'	-9.05	86.81	104.00
4	A4	19	DA	O3'-P-O5'	-9.05	86.80	104.00
5	A5	27	DA	O3'-P-O5'	-9.05	86.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	532	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	797	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	6256	DA	O3'-P-O5'	-9.05	86.80	104.00
181	Q9	12	DA	O3'-P-O5'	-9.05	86.80	104.00
228	VC	6	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	1323	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	1841	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	1858	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	1947	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	5232	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	2150	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	2180	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2270	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	2499	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2513	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2699	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2929	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	3707	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	4380	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	4439	DA	O3'-P-O5'	-9.05	86.80	104.00
83	H3	40	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	4450	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	5312	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	5878	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	6092	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	6315	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	6497	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	6640	DA	O3'-P-O5'	-9.05	86.80	104.00
11	AB	6670	DA	O3'-P-O5'	-9.05	86.80	104.00
26	C1	20	DA	O3'-P-O5'	-9.05	86.80	104.00
131	L8	12	DA	O3'-P-O5'	-9.05	86.80	104.00
29	C5	4	DA	O3'-P-O5'	-9.05	86.81	104.00
58	ED	33	DA	O3'-P-O5'	-9.05	86.80	104.00
65	F8	15	DA	O3'-P-O5'	-9.05	86.80	104.00
88	H9	1	DA	O3'-P-O5'	-9.05	86.80	104.00
93	I2	3	DA	O3'-P-O5'	-9.05	86.80	104.00
94	I3	35	DA	O3'-P-O5'	-9.05	86.81	104.00
110	J9	11	DA	O3'-P-O5'	-9.05	86.81	104.00
111	JA	7	DA	O3'-P-O5'	-9.05	86.80	104.00
115	K2	24	DA	O3'-P-O5'	-9.05	86.80	104.00
116	K3	18	DA	O3'-P-O5'	-9.05	86.80	104.00
130	L7	23	DA	O3'-P-O5'	-9.05	86.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
187	R5	29	DA	O3'-P-O5'	-9.05	86.80	104.00
184	QD	30	DA	O3'-P-O5'	-9.05	86.81	104.00
189	R8	1	DA	O3'-P-O5'	-9.05	86.80	104.00
198	S8	12	DA	O3'-P-O5'	-9.05	86.81	104.00
210	TC	9	DA	O3'-P-O5'	-9.05	86.80	104.00
213	U3	23	DA	O3'-P-O5'	-9.05	86.81	104.00
214	U5	1	DA	O3'-P-O5'	-9.05	86.80	104.00
226	V9	6	DA	O3'-P-O5'	-9.05	86.81	104.00
235	WD	10	DA	O3'-P-O5'	-9.05	86.80	104.00
236	X5	20	DA	O3'-P-O5'	-9.05	86.80	104.00
2	A2	8	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	56	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	102	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	733	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2808	DA	O3'-P-O5'	-9.05	86.81	104.00
43	D8	2	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	402	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	724	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	775	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	820	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	1005	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	1134	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	1171	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	1218	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	1358	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	1827	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2306	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2432	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2685	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2990	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	4456	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	4802	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	5932	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	6642	DA	O3'-P-O5'	-9.05	86.81	104.00
21	B8	9	DA	O3'-P-O5'	-9.05	86.81	104.00
137	M3	11	DA	O3'-P-O5'	-9.05	86.81	104.00
188	R7	16	DA	O3'-P-O5'	-9.05	86.81	104.00
196	S5	27	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	3322	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	4264	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	4446	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	4527	DA	O3'-P-O5'	-9.05	86.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5872	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	5877	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	6402	DA	O3'-P-O5'	-9.05	86.81	104.00
39	D3	30	DA	O3'-P-O5'	-9.05	86.81	104.00
50	E3	16	DA	O3'-P-O5'	-9.05	86.81	104.00
65	F8	16	DA	O3'-P-O5'	-9.05	86.81	104.00
68	FC	8	DA	O3'-P-O5'	-9.05	86.81	104.00
55	E9	7	DA	O3'-P-O5'	-9.05	86.81	104.00
60	F2	17	DA	O3'-P-O5'	-9.05	86.81	104.00
72	G3	7	DA	O3'-P-O5'	-9.05	86.81	104.00
83	H3	22	DA	O3'-P-O5'	-9.05	86.81	104.00
101	IC	7	DA	O3'-P-O5'	-9.05	86.81	104.00
77	G9	13	DA	O3'-P-O5'	-9.05	86.81	104.00
94	I3	34	DA	O3'-P-O5'	-9.05	86.81	104.00
103	J1	19	DA	O3'-P-O5'	-9.05	86.81	104.00
125	L1	15	DA	O3'-P-O5'	-9.05	86.81	104.00
107	J6	20	DA	O3'-P-O5'	-9.05	86.81	104.00
109	J8	19	DA	O3'-P-O5'	-9.05	86.81	104.00
123	KC	9	DA	O3'-P-O5'	-9.05	86.81	104.00
130	L7	57	DA	O3'-P-O5'	-9.05	86.81	104.00
190	R9	10	DA	O3'-P-O5'	-9.05	86.81	104.00
125	L1	51	DA	O3'-P-O5'	-9.05	86.81	104.00
139	M6	11	DA	O3'-P-O5'	-9.05	86.81	104.00
221	V2	24	DA	O3'-P-O5'	-9.05	86.81	104.00
162	O9	10	DA	O3'-P-O5'	-9.05	86.81	104.00
189	R8	20	DA	O3'-P-O5'	-9.05	86.81	104.00
192	RC	25	DA	O3'-P-O5'	-9.05	86.81	104.00
202	SD	27	DA	O3'-P-O5'	-9.05	86.81	104.00
228	VC	25	DA	O3'-P-O5'	-9.05	86.81	104.00
230	W3	1	DA	O3'-P-O5'	-9.05	86.81	104.00
230	W3	23	DA	O3'-P-O5'	-9.05	86.81	104.00
2	A2	1	DA	O3'-P-O5'	-9.04	86.81	104.00
2	A2	19	DA	O3'-P-O5'	-9.05	86.81	104.00
43	D8	15	DA	O3'-P-O5'	-9.05	86.81	104.00
216	U8	7	DA	O3'-P-O5'	-9.05	86.81	104.00
7	A7	17	DA	O3'-P-O5'	-9.04	86.82	104.00
10	AA	14	DA	O3'-P-O5'	-9.04	86.81	104.00
11	AB	319	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	597	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	1022	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2114	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2795	DA	O3'-P-O5'	-9.05	86.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4449	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	4852	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	510	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1140	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1700	DA	O3'-P-O5'	-9.04	86.81	104.00
11	AB	1731	DA	O3'-P-O5'	-9.04	86.81	104.00
11	AB	1937	DA	O3'-P-O5'	-9.04	86.81	104.00
11	AB	1974	DA	O3'-P-O5'	-9.04	86.81	104.00
11	AB	2113	DA	O3'-P-O5'	-9.04	86.81	104.00
11	AB	2268	DA	O3'-P-O5'	-9.04	86.81	104.00
11	AB	2491	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	3815	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	3856	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	6662	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	7210	DA	O3'-P-O5'	-9.05	86.81	104.00
14	B1	10	DA	O3'-P-O5'	-9.05	86.81	104.00
50	E3	10	DA	O3'-P-O5'	-9.05	86.81	104.00
93	I2	16	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	2566	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2671	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	3323	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	3934	DA	O3'-P-O5'	-9.04	86.81	104.00
27	C2	18	DA	O3'-P-O5'	-9.05	86.81	104.00
50	E3	17	DA	O3'-P-O5'	-9.05	86.81	104.00
11	AB	4266	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	4393	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	5871	DA	O3'-P-O5'	-9.04	86.81	104.00
11	AB	5958	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	6536	DA	O3'-P-O5'	-9.04	86.81	104.00
13	AD	6	DA	O3'-P-O5'	-9.04	86.81	104.00
24	BC	36	DA	O3'-P-O5'	-9.04	86.81	104.00
42	D7	11	DA	O3'-P-O5'	-9.04	86.82	104.00
57	EC	18	DA	O3'-P-O5'	-9.04	86.82	104.00
61	F3	18	DA	O3'-P-O5'	-9.04	86.81	104.00
80	GD	10	DA	O3'-P-O5'	-9.05	86.81	104.00
74	G6	26	DA	O3'-P-O5'	-9.04	86.82	104.00
84	H5	17	DA	O3'-P-O5'	-9.04	86.82	104.00
107	J6	5	DA	O3'-P-O5'	-9.04	86.82	104.00
108	J7	23	DA	O3'-P-O5'	-9.04	86.81	104.00
108	J7	32	DA	O3'-P-O5'	-9.04	86.81	104.00
116	K3	17	DA	O3'-P-O5'	-9.04	86.82	104.00
117	K5	5	DA	O3'-P-O5'	-9.04	86.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
123	KC	7	DA	O3'-P-O5'	-9.04	86.81	104.00
123	KC	8	DA	O3'-P-O5'	-9.04	86.82	104.00
126	L2	52	DA	O3'-P-O5'	-9.04	86.81	104.00
237	X7	8	DA	O3'-P-O5'	-9.05	86.81	104.00
130	L7	40	DA	O3'-P-O5'	-9.04	86.82	104.00
131	L8	9	DA	O3'-P-O5'	-9.04	86.82	104.00
145	MD	28	DA	O3'-P-O5'	-9.04	86.82	104.00
154	NC	14	DA	O3'-P-O5'	-9.04	86.81	104.00
162	O9	11	DA	O3'-P-O5'	-9.04	86.81	104.00
174	PC	17	DA	O3'-P-O5'	-9.05	86.81	104.00
180	Q8	8	DA	O3'-P-O5'	-9.04	86.81	104.00
230	W3	3	DA	O3'-P-O5'	-9.05	86.81	104.00
184	QD	16	DA	O3'-P-O5'	-9.04	86.82	104.00
185	R2	17	DA	O3'-P-O5'	-9.04	86.81	104.00
189	R8	4	DA	O3'-P-O5'	-9.04	86.82	104.00
194	S2	7	DA	O3'-P-O5'	-9.04	86.82	104.00
196	S5	1	DA	O3'-P-O5'	-9.04	86.82	104.00
196	S5	2	DA	O3'-P-O5'	-9.04	86.81	104.00
215	U7	2	DA	O3'-P-O5'	-9.04	86.82	104.00
229	VD	1	DA	O3'-P-O5'	-9.04	86.81	104.00
238	X9	57	DA	O3'-P-O5'	-9.04	86.81	104.00
1	A1	39	DA	O3'-P-O5'	-9.04	86.82	104.00
3	A3	5	DA	O3'-P-O5'	-9.04	86.82	104.00
4	A4	18	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1201	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1445	DA	O3'-P-O5'	-9.04	86.82	104.00
173	PA	20	DA	O3'-P-O5'	-9.04	86.82	104.00
4	A4	31	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	94	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	244	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	630	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	849	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1135	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1231	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1300	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1410	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1517	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2495	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	6559	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1732	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1840	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1938	DA	O3'-P-O5'	-9.04	86.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2188	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2888	DA	O3'-P-O5'	-9.04	86.82	104.00
84	H5	11	DA	O3'-P-O5'	-9.04	86.82	104.00
138	M5	21	DA	O3'-P-O5'	-9.04	86.82	104.00
149	N6	17	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2248	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2321	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	5297	DA	O3'-P-O5'	-9.04	86.82	104.00
74	G6	18	DA	O3'-P-O5'	-9.04	86.82	104.00
165	OD	12	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2514	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2802	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2859	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2872	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2980	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	3199	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	3203	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	4619	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	5652	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	5654	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	5876	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	6084	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	6110	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	6586	DA	O3'-P-O5'	-9.04	86.82	104.00
64	F7	26	DA	O3'-P-O5'	-9.04	86.82	104.00
132	L9	5	DA	O3'-P-O5'	-9.04	86.82	104.00
175	PD	3	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	5920	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	6013	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	6404	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	6669	DA	O3'-P-O5'	-9.04	86.82	104.00
49	E2	41	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	6678	DA	O3'-P-O5'	-9.04	86.82	104.00
17	B4	5	DA	O3'-P-O5'	-9.04	86.82	104.00
25	BD	21	DA	O3'-P-O5'	-9.04	86.82	104.00
26	C1	6	DA	O3'-P-O5'	-9.04	86.82	104.00
29	C5	38	DA	O3'-P-O5'	-9.04	86.82	104.00
31	C7	9	DA	O3'-P-O5'	-9.04	86.82	104.00
44	D9	15	DA	O3'-P-O5'	-9.04	86.82	104.00
46	DC	11	DA	O3'-P-O5'	-9.04	86.82	104.00
47	DD	12	DA	O3'-P-O5'	-9.04	86.82	104.00
53	E7	14	DA	O3'-P-O5'	-9.04	86.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
122	KA	15	DA	O3'-P-O5'	-9.04	86.82	104.00
58	ED	24	DA	O3'-P-O5'	-9.04	86.82	104.00
67	FA	13	DA	O3'-P-O5'	-9.04	86.82	104.00
222	V3	3	DA	O3'-P-O5'	-9.04	86.82	104.00
93	I2	34	DA	O3'-P-O5'	-9.04	86.82	104.00
108	J7	26	DA	O3'-P-O5'	-9.04	86.82	104.00
118	K6	19	DA	O3'-P-O5'	-9.04	86.82	104.00
130	L7	52	DA	O3'-P-O5'	-9.04	86.82	104.00
130	L7	58	DA	O3'-P-O5'	-9.04	86.82	104.00
141	M8	6	DA	O3'-P-O5'	-9.04	86.82	104.00
147	N3	8	DA	O3'-P-O5'	-9.04	86.82	104.00
148	N5	27	DA	O3'-P-O5'	-9.04	86.82	104.00
151	N8	3	DA	O3'-P-O5'	-9.04	86.82	104.00
165	OD	33	DA	O3'-P-O5'	-9.04	86.82	104.00
173	PA	1	DA	O3'-P-O5'	-9.04	86.82	104.00
193	RD	14	DA	O3'-P-O5'	-9.04	86.82	104.00
206	T7	43	DA	O3'-P-O5'	-9.04	86.82	104.00
152	N9	48	DA	O3'-P-O5'	-9.04	86.82	104.00
156	O2	6	DA	O3'-P-O5'	-9.04	86.82	104.00
161	O8	2	DA	O3'-P-O5'	-9.04	86.82	104.00
161	O8	31	DA	O3'-P-O5'	-9.04	86.82	104.00
163	OA	8	DA	O3'-P-O5'	-9.04	86.82	104.00
174	PC	15	DA	O3'-P-O5'	-9.04	86.82	104.00
192	RC	24	DA	O3'-P-O5'	-9.04	86.82	104.00
194	S2	20	DA	O3'-P-O5'	-9.04	86.82	104.00
219	UC	34	DA	O3'-P-O5'	-9.04	86.82	104.00
222	V3	14	DA	O3'-P-O5'	-9.04	86.82	104.00
223	V5	16	DA	O3'-P-O5'	-9.04	86.82	104.00
225	V8	9	DA	O3'-P-O5'	-9.04	86.82	104.00
10	AA	24	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	217	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	232	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	673	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1398	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	1784	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2003	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	2283	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2586	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	4370	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	4377	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	5515	DA	O3'-P-O5'	-9.04	86.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5744	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	6782	DA	O3'-P-O5'	-9.04	86.83	104.00
15	B2	17	DA	O3'-P-O5'	-9.04	86.82	104.00
35	CC	8	DA	O3'-P-O5'	-9.04	86.83	104.00
55	E9	14	DA	O3'-P-O5'	-9.04	86.83	104.00
55	E9	30	DA	O3'-P-O5'	-9.04	86.82	104.00
85	H6	1	DA	O3'-P-O5'	-9.04	86.83	104.00
94	I3	22	DA	O3'-P-O5'	-9.04	86.83	104.00
210	TC	10	DA	O3'-P-O5'	-9.04	86.82	104.00
228	VC	15	DA	O3'-P-O5'	-9.04	86.82	104.00
228	VC	22	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	615	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	691	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	793	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	1221	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2220	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2558	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2581	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2601	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2694	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2755	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	3089	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	3170	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	3692	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5691	DA	O3'-P-O5'	-9.04	86.83	104.00
43	D8	13	DA	O3'-P-O5'	-9.04	86.83	104.00
47	DD	35	DA	O3'-P-O5'	-9.04	86.82	104.00
104	J2	34	DA	O3'-P-O5'	-9.04	86.83	104.00
158	O5	22	DA	O3'-P-O5'	-9.04	86.82	104.00
160	O7	34	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	3025	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	3574	DA	O3'-P-O5'	-9.04	86.83	104.00
203	T2	17	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	4697	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	4763	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5130	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5292	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5417	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	6069	DA	O3'-P-O5'	-9.04	86.82	104.00
11	AB	5665	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5669	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5706	DA	O3'-P-O5'	-9.04	86.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5896	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5970	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	6481	DA	O3'-P-O5'	-9.04	86.83	104.00
15	B2	9	DA	O3'-P-O5'	-9.04	86.83	104.00
89	HA	9	DA	O3'-P-O5'	-9.04	86.83	104.00
116	K3	12	DA	O3'-P-O5'	-9.04	86.83	104.00
158	O5	17	DA	O3'-P-O5'	-9.04	86.83	104.00
225	V8	6	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	6365	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	6403	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	6778	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	7006	DA	O3'-P-O5'	-9.04	86.83	104.00
12	AC	8	DA	O3'-P-O5'	-9.04	86.83	104.00
13	AD	24	DA	O3'-P-O5'	-9.04	86.83	104.00
14	B1	29	DA	O3'-P-O5'	-9.04	86.83	104.00
22	B9	30	DA	O3'-P-O5'	-9.04	86.83	104.00
81	H1	17	DA	O3'-P-O5'	-9.04	86.83	104.00
27	C2	14	DA	O3'-P-O5'	-9.04	86.83	104.00
146	N2	10	DA	O3'-P-O5'	-9.04	86.83	104.00
201	SC	2	DA	O3'-P-O5'	-9.04	86.83	104.00
29	C5	20	DA	O3'-P-O5'	-9.04	86.83	104.00
30	C6	38	DA	O3'-P-O5'	-9.04	86.83	104.00
40	D5	7	DA	O3'-P-O5'	-9.04	86.83	104.00
65	F8	14	DA	O3'-P-O5'	-9.04	86.83	104.00
214	U5	12	DA	O3'-P-O5'	-9.04	86.82	104.00
226	V9	25	DA	O3'-P-O5'	-9.04	86.83	104.00
45	DA	26	DA	O3'-P-O5'	-9.04	86.83	104.00
47	DD	16	DA	O3'-P-O5'	-9.04	86.83	104.00
50	E3	13	DA	O3'-P-O5'	-9.04	86.83	104.00
78	GA	17	DA	O3'-P-O5'	-9.04	86.83	104.00
146	N2	16	DA	O3'-P-O5'	-9.04	86.83	104.00
199	S9	7	DA	O3'-P-O5'	-9.04	86.83	104.00
109	J8	38	DA	O3'-P-O5'	-9.04	86.83	104.00
130	L7	16	DA	O3'-P-O5'	-9.04	86.83	104.00
141	M8	10	DA	O3'-P-O5'	-9.04	86.83	104.00
143	MA	6	DA	O3'-P-O5'	-9.04	86.83	104.00
154	NC	37	DA	O3'-P-O5'	-9.04	86.83	104.00
158	O5	43	DA	O3'-P-O5'	-9.04	86.83	104.00
160	O7	37	DA	O3'-P-O5'	-9.04	86.83	104.00
160	O7	38	DA	O3'-P-O5'	-9.04	86.83	104.00
181	Q9	31	DA	O3'-P-O5'	-9.04	86.83	104.00
190	R9	9	DA	O3'-P-O5'	-9.04	86.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
216	U8	3	DA	O3'-P-O5'	-9.04	86.83	104.00
235	WD	18	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	23	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	110	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	158	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	208	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	755	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	808	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	1515	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2599	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2633	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2785	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	3422	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5514	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	6273	DA	O3'-P-O5'	-9.04	86.83	104.00
95	I5	8	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	246	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	618	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1326	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1733	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	2751	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	4262	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	6200	DA	O3'-P-O5'	-9.04	86.83	104.00
19	B6	6	DA	O3'-P-O5'	-9.04	86.83	104.00
62	F5	41	DA	O3'-P-O5'	-9.04	86.83	104.00
125	L1	16	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	1793	DA	O3'-P-O5'	-9.03	86.83	104.00
11	AB	2246	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2444	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2869	DA	O3'-P-O5'	-9.03	86.83	104.00
11	AB	2907	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	3108	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3188	DA	O3'-P-O5'	-9.03	86.83	104.00
11	AB	3933	DA	O3'-P-O5'	-9.03	86.83	104.00
11	AB	4263	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	4403	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	4738	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5225	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5567	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	5688	DA	O3'-P-O5'	-9.04	86.83	104.00
16	B3	10	DA	O3'-P-O5'	-9.04	86.83	104.00
124	KD	12	DA	O3'-P-O5'	-9.04	86.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
130	L7	8	DA	O3'-P-O5'	-9.04	86.83	104.00
131	L8	15	DA	O3'-P-O5'	-9.04	86.83	104.00
223	V5	15	DA	O3'-P-O5'	-9.04	86.83	104.00
11	AB	6096	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6097	DA	O3'-P-O5'	-9.03	86.83	104.00
11	AB	6247	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	7107	DA	O3'-P-O5'	-9.04	86.83	104.00
25	BD	11	DA	O3'-P-O5'	-9.04	86.83	104.00
83	H3	39	DA	O3'-P-O5'	-9.04	86.83	104.00
21	B8	18	DA	O3'-P-O5'	-9.03	86.84	104.00
26	C1	22	DA	O3'-P-O5'	-9.03	86.83	104.00
34	CA	7	DA	O3'-P-O5'	-9.03	86.83	104.00
52	E6	9	DA	O3'-P-O5'	-9.03	86.84	104.00
58	ED	14	DA	O3'-P-O5'	-9.04	86.83	104.00
64	F7	1	DA	O3'-P-O5'	-9.04	86.83	104.00
79	GC	6	DA	O3'-P-O5'	-9.04	86.83	104.00
89	HA	26	DA	O3'-P-O5'	-9.04	86.83	104.00
91	HD	5	DA	O3'-P-O5'	-9.03	86.84	104.00
91	HD	8	DA	O3'-P-O5'	-9.04	86.83	104.00
95	I5	24	DA	O3'-P-O5'	-9.04	86.83	104.00
97	I7	17	DA	O3'-P-O5'	-9.04	86.83	104.00
98	I8	10	DA	O3'-P-O5'	-9.04	86.83	104.00
162	O9	21	DA	O3'-P-O5'	-9.04	86.83	104.00
108	J7	2	DA	O3'-P-O5'	-9.03	86.83	104.00
125	L1	34	DA	O3'-P-O5'	-9.03	86.83	104.00
129	L6	13	DA	O3'-P-O5'	-9.04	86.83	104.00
130	L7	39	DA	O3'-P-O5'	-9.04	86.83	104.00
141	M8	23	DA	O3'-P-O5'	-9.03	86.84	104.00
151	N8	12	DA	O3'-P-O5'	-9.04	86.83	104.00
155	ND	18	DA	O3'-P-O5'	-9.04	86.83	104.00
158	O5	33	DA	O3'-P-O5'	-9.04	86.83	104.00
158	O5	39	DA	O3'-P-O5'	-9.04	86.83	104.00
160	O7	27	DA	O3'-P-O5'	-9.03	86.83	104.00
165	OD	9	DA	O3'-P-O5'	-9.03	86.83	104.00
165	OD	23	DA	O3'-P-O5'	-9.04	86.83	104.00
179	Q7	16	DA	O3'-P-O5'	-9.04	86.83	104.00
185	R2	23	DA	O3'-P-O5'	-9.04	86.83	104.00
193	RD	6	DA	O3'-P-O5'	-9.03	86.84	104.00
200	SA	9	DA	O3'-P-O5'	-9.03	86.83	104.00
200	SA	19	DA	O3'-P-O5'	-9.04	86.83	104.00
202	SD	17	DA	O3'-P-O5'	-9.04	86.83	104.00
207	T8	25	DA	O3'-P-O5'	-9.04	86.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
210	TC	25	DA	O3'-P-O5'	-9.04	86.83	104.00
215	U7	1	DA	O3'-P-O5'	-9.04	86.83	104.00
224	V7	8	DA	O3'-P-O5'	-9.04	86.83	104.00
212	U2	8	DA	O3'-P-O5'	-9.03	86.84	104.00
212	U2	14	DA	O3'-P-O5'	-9.03	86.84	104.00
224	V7	9	DA	O3'-P-O5'	-9.04	86.83	104.00
224	V7	17	DA	O3'-P-O5'	-9.03	86.83	104.00
228	VC	16	DA	O3'-P-O5'	-9.04	86.83	104.00
231	W5	25	DA	O3'-P-O5'	-9.04	86.83	104.00
237	X7	5	DA	O3'-P-O5'	-9.03	86.84	104.00
1	A1	35	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3587	DA	O3'-P-O5'	-9.03	86.84	104.00
25	BD	20	DA	O3'-P-O5'	-9.03	86.84	104.00
5	A5	10	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	401	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	561	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1110	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	690	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	753	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1529	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1727	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2598	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2666	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2803	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3028	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3061	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3171	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3347	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3573	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3931	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	4787	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5295	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6319	DA	O3'-P-O5'	-9.03	86.84	104.00
80	GD	9	DA	O3'-P-O5'	-9.03	86.84	104.00
179	Q7	19	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	786	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1179	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1215	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1427	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1736	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1859	DA	O3'-P-O5'	-9.03	86.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1876	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1987	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2463	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2511	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2629	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2662	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2701	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2912	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3400	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	4766	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2865	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3111	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3402	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3658	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3700	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3893	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	4032	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	4078	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	4351	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	4412	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5315	DA	O3'-P-O5'	-9.03	86.84	104.00
63	F6	7	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5274	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5403	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5517	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5785	DA	O3'-P-O5'	-9.03	86.84	104.00
153	NA	10	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6163	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6209	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6516	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6623	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6867	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	7026	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	7233	DA	O3'-P-O5'	-9.03	86.84	104.00
42	D7	2	DA	O3'-P-O5'	-9.03	86.84	104.00
33	C9	25	DA	O3'-P-O5'	-9.03	86.84	104.00
62	F5	23	DA	O3'-P-O5'	-9.03	86.84	104.00
68	FC	2	DA	O3'-P-O5'	-9.03	86.84	104.00
72	G3	6	DA	O3'-P-O5'	-9.03	86.84	104.00
74	G6	31	DA	O3'-P-O5'	-9.03	86.84	104.00
85	H6	12	DA	O3'-P-O5'	-9.03	86.84	104.00
103	J1	18	DA	O3'-P-O5'	-9.03	86.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	J8	30	DA	O3'-P-O5'	-9.03	86.84	104.00
112	JC	23	DA	O3'-P-O5'	-9.03	86.84	104.00
114	K1	2	DA	O3'-P-O5'	-9.03	86.84	104.00
124	KD	20	DA	O3'-P-O5'	-9.03	86.84	104.00
142	M9	15	DA	O3'-P-O5'	-9.03	86.84	104.00
149	N6	40	DA	O3'-P-O5'	-9.03	86.84	104.00
161	O8	1	DA	O3'-P-O5'	-9.03	86.84	104.00
165	OD	13	DA	O3'-P-O5'	-9.03	86.84	104.00
170	P7	10	DA	O3'-P-O5'	-9.03	86.84	104.00
170	P7	21	DA	O3'-P-O5'	-9.03	86.84	104.00
175	PD	22	DA	O3'-P-O5'	-9.03	86.84	104.00
188	R7	17	DA	O3'-P-O5'	-9.03	86.84	104.00
192	RC	16	DA	O3'-P-O5'	-9.03	86.84	104.00
176	Q2	21	DA	O3'-P-O5'	-9.03	86.84	104.00
195	S3	18	DA	O3'-P-O5'	-9.03	86.84	104.00
197	S7	16	DA	O3'-P-O5'	-9.03	86.84	104.00
198	S8	15	DA	O3'-P-O5'	-9.03	86.84	104.00
200	SA	21	DA	O3'-P-O5'	-9.03	86.84	104.00
207	T8	5	DA	O3'-P-O5'	-9.03	86.84	104.00
207	T8	26	DA	O3'-P-O5'	-9.03	86.84	104.00
210	TC	17	DA	O3'-P-O5'	-9.03	86.84	104.00
211	TD	15	DA	O3'-P-O5'	-9.03	86.84	104.00
214	U5	36	DA	O3'-P-O5'	-9.03	86.84	104.00
223	V5	17	DA	O3'-P-O5'	-9.03	86.84	104.00
223	V5	19	DA	O3'-P-O5'	-9.03	86.84	104.00
226	V9	2	DA	O3'-P-O5'	-9.03	86.84	104.00
236	X5	10	DA	O3'-P-O5'	-9.03	86.84	104.00
236	X5	14	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	50	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	258	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	286	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	722	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1062	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1261	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1262	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	1331	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2284	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2705	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3705	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5539	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5968	DA	O3'-P-O5'	-9.03	86.84	104.00
18	B5	26	DA	O3'-P-O5'	-9.03	86.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1577	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	1728	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	1752	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	1839	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2007	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2074	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2127	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2484	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2512	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2747	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2913	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	2981	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3136	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3298	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	4678	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5293	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3273	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3709	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3745	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3784	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3840	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5006	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6589	DA	O3'-P-O5'	-9.03	86.84	104.00
88	H9	25	DA	O3'-P-O5'	-9.03	86.84	104.00
166	P2	25	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	3861	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3884	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	4418	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	4977	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5056	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5267	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5294	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5320	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	5361	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5650	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5928	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5978	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	6037	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6067	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6085	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6686	DA	O3'-P-O5'	-9.03	86.84	104.00
11	AB	6928	DA	O3'-P-O5'	-9.03	86.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6954	DA	O3'-P-O5'	-9.03	86.85	104.00
18	B5	31	DA	O3'-P-O5'	-9.03	86.84	104.00
69	FD	34	DA	O3'-P-O5'	-9.03	86.84	104.00
27	C2	17	DA	O3'-P-O5'	-9.03	86.85	104.00
31	C7	21	DA	O3'-P-O5'	-9.03	86.85	104.00
33	C9	7	DA	O3'-P-O5'	-9.03	86.84	104.00
37	D1	3	DA	O3'-P-O5'	-9.03	86.84	104.00
41	D6	29	DA	O3'-P-O5'	-9.03	86.84	104.00
98	I8	19	DA	O3'-P-O5'	-9.03	86.84	104.00
98	I8	29	DA	O3'-P-O5'	-9.03	86.84	104.00
103	J1	20	DA	O3'-P-O5'	-9.03	86.84	104.00
105	J3	24	DA	O3'-P-O5'	-9.03	86.84	104.00
157	O3	8	DA	O3'-P-O5'	-9.03	86.84	104.00
37	D1	13	DA	O3'-P-O5'	-9.03	86.85	104.00
57	EC	5	DA	O3'-P-O5'	-9.03	86.85	104.00
59	F1	19	DA	O3'-P-O5'	-9.03	86.85	104.00
72	G3	22	DA	O3'-P-O5'	-9.03	86.84	104.00
75	G7	17	DA	O3'-P-O5'	-9.03	86.85	104.00
87	H8	22	DA	O3'-P-O5'	-9.03	86.85	104.00
89	HA	30	DA	O3'-P-O5'	-9.03	86.85	104.00
100	IA	19	DA	O3'-P-O5'	-9.03	86.85	104.00
107	J6	4	DA	O3'-P-O5'	-9.03	86.85	104.00
107	J6	19	DA	O3'-P-O5'	-9.03	86.84	104.00
108	J7	1	DA	O3'-P-O5'	-9.03	86.85	104.00
109	J8	50	DA	O3'-P-O5'	-9.03	86.85	104.00
114	K1	34	DA	O3'-P-O5'	-9.03	86.85	104.00
123	KC	26	DA	O3'-P-O5'	-9.03	86.84	104.00
135	LD	15	DA	O3'-P-O5'	-9.03	86.84	104.00
137	M3	9	DA	O3'-P-O5'	-9.03	86.84	104.00
137	M3	10	DA	O3'-P-O5'	-9.03	86.84	104.00
137	M3	20	DA	O3'-P-O5'	-9.03	86.84	104.00
140	M7	20	DA	O3'-P-O5'	-9.03	86.84	104.00
149	N6	28	DA	O3'-P-O5'	-9.03	86.84	104.00
161	O8	12	DA	O3'-P-O5'	-9.03	86.84	104.00
140	M7	23	DA	O3'-P-O5'	-9.03	86.85	104.00
142	M9	8	DA	O3'-P-O5'	-9.03	86.85	104.00
152	N9	14	DA	O3'-P-O5'	-9.03	86.84	104.00
158	O5	12	DA	O3'-P-O5'	-9.03	86.85	104.00
163	OA	5	DA	O3'-P-O5'	-9.03	86.84	104.00
165	OD	45	DA	O3'-P-O5'	-9.03	86.85	104.00
171	P8	15	DA	O3'-P-O5'	-9.03	86.84	104.00
171	P8	25	DA	O3'-P-O5'	-9.03	86.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
183	QC	13	DA	O3'-P-O5'	-9.03	86.84	104.00
184	QD	17	DA	O3'-P-O5'	-9.03	86.84	104.00
184	QD	24	DA	O3'-P-O5'	-9.03	86.84	104.00
202	SD	21	DA	O3'-P-O5'	-9.03	86.85	104.00
208	T9	7	DA	O3'-P-O5'	-9.03	86.85	104.00
209	TA	2	DA	O3'-P-O5'	-9.03	86.84	104.00
211	TD	32	DA	O3'-P-O5'	-9.03	86.85	104.00
216	U8	2	DA	O3'-P-O5'	-9.03	86.85	104.00
223	V5	18	DA	O3'-P-O5'	-9.03	86.84	104.00
224	V7	10	DA	O3'-P-O5'	-9.03	86.85	104.00
232	W7	15	DA	O3'-P-O5'	-9.03	86.84	104.00
233	W8	5	DA	O3'-P-O5'	-9.03	86.85	104.00
238	X9	23	DA	O3'-P-O5'	-9.03	86.84	104.00
1	A1	24	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	161	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2572	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2759	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5338	DA	O3'-P-O5'	-9.03	86.85	104.00
140	M7	18	DA	O3'-P-O5'	-9.03	86.85	104.00
161	O8	39	DA	O3'-P-O5'	-9.03	86.85	104.00
6	A6	18	DA	O3'-P-O5'	-9.03	86.85	104.00
9	A9	11	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	170	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	209	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	267	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	353	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	492	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	1023	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	218	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	400	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	787	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	1102	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	1699	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	1325	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2269	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2576	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2500	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2640	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2700	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2794	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2864	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	2988	DA	O3'-P-O5'	-9.03	86.85	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5359	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	6267	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	6562	DA	O3'-P-O5'	-9.03	86.85	104.00
135	LD	21	DA	O3'-P-O5'	-9.03	86.85	104.00
206	T7	27	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3083	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3098	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3267	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3350	DT	P-O3'-C3'	-9.03	108.87	119.70
11	AB	4308	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3545	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3797	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5235	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5544	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	3868	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5313	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5485	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5754	DA	O3'-P-O5'	-9.03	86.85	104.00
47	DD	26	DA	O3'-P-O5'	-9.03	86.85	104.00
109	J8	37	DA	O3'-P-O5'	-9.03	86.85	104.00
189	R8	2	DA	O3'-P-O5'	-9.03	86.85	104.00
234	W9	3	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5564	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	5725	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	6014	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	6152	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	6829	DA	O3'-P-O5'	-9.03	86.85	104.00
11	AB	7111	DA	O3'-P-O5'	-9.03	86.85	104.00
18	B5	30	DA	O3'-P-O5'	-9.03	86.85	104.00
29	C5	5	DA	O3'-P-O5'	-9.03	86.85	104.00
58	ED	13	DA	O3'-P-O5'	-9.03	86.85	104.00
19	B6	3	DA	O3'-P-O5'	-9.03	86.85	104.00
29	C5	29	DA	O3'-P-O5'	-9.03	86.85	104.00
40	D5	20	DA	O3'-P-O5'	-9.03	86.85	104.00
52	E6	11	DA	O3'-P-O5'	-9.03	86.85	104.00
65	F8	13	DA	O3'-P-O5'	-9.03	86.85	104.00
69	FD	23	DA	O3'-P-O5'	-9.03	86.85	104.00
104	J2	40	DA	O3'-P-O5'	-9.03	86.85	104.00
76	G8	21	DA	O3'-P-O5'	-9.03	86.85	104.00
83	H3	13	DA	O3'-P-O5'	-9.03	86.85	104.00
91	HD	12	DA	O3'-P-O5'	-9.03	86.85	104.00
98	I8	14	DA	O3'-P-O5'	-9.03	86.85	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
108	J7	48	DA	O3'-P-O5'	-9.03	86.85	104.00
109	J8	6	DA	O3'-P-O5'	-9.03	86.85	104.00
114	K1	6	DA	O3'-P-O5'	-9.03	86.85	104.00
122	KA	34	DA	O3'-P-O5'	-9.03	86.85	104.00
129	L6	11	DA	O3'-P-O5'	-9.03	86.85	104.00
145	MD	2	DA	O3'-P-O5'	-9.03	86.85	104.00
219	UC	14	DA	O3'-P-O5'	-9.03	86.85	104.00
155	ND	8	DA	O3'-P-O5'	-9.03	86.85	104.00
158	O5	28	DA	O3'-P-O5'	-9.03	86.85	104.00
165	OD	8	DA	O3'-P-O5'	-9.03	86.85	104.00
165	OD	30	DA	O3'-P-O5'	-9.03	86.85	104.00
176	Q2	19	DA	O3'-P-O5'	-9.03	86.85	104.00
181	Q9	4	DA	O3'-P-O5'	-9.03	86.85	104.00
185	R2	6	DA	O3'-P-O5'	-9.03	86.85	104.00
214	U5	34	DA	O3'-P-O5'	-9.03	86.85	104.00
208	T9	16	DA	O3'-P-O5'	-9.03	86.85	104.00
209	TA	7	DA	O3'-P-O5'	-9.03	86.85	104.00
222	V3	5	DA	O3'-P-O5'	-9.03	86.85	104.00
228	VC	1	DA	O3'-P-O5'	-9.03	86.85	104.00
230	W3	20	DA	O3'-P-O5'	-9.03	86.85	104.00
233	W8	9	DA	O3'-P-O5'	-9.03	86.85	104.00
235	WD	6	DA	O3'-P-O5'	-9.03	86.85	104.00
1	A1	17	DA	O3'-P-O5'	-9.02	86.85	104.00
11	AB	230	DA	O3'-P-O5'	-9.02	86.85	104.00
11	AB	231	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1002	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1758	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1918	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2375	DA	O3'-P-O5'	-9.02	86.85	104.00
11	AB	2380	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2987	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3221	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3372	DA	O3'-P-O5'	-9.02	86.85	104.00
11	AB	3981	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5927	DA	O3'-P-O5'	-9.02	86.85	104.00
11	AB	6032	DA	O3'-P-O5'	-9.02	86.85	104.00
11	AB	6060	DA	O3'-P-O5'	-9.02	86.85	104.00
11	AB	6925	DA	O3'-P-O5'	-9.02	86.86	104.00
14	B1	15	DA	O3'-P-O5'	-9.02	86.85	104.00
39	D3	16	DA	O3'-P-O5'	-9.02	86.85	104.00
62	F5	39	DA	O3'-P-O5'	-9.02	86.86	104.00
88	H9	24	DA	O3'-P-O5'	-9.02	86.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
95	I5	9	DA	O3'-P-O5'	-9.02	86.86	104.00
122	KA	23	DA	O3'-P-O5'	-9.02	86.85	104.00
219	UC	28	DA	O3'-P-O5'	-9.02	86.86	104.00
220	UD	15	DA	O3'-P-O5'	-9.02	86.86	104.00
226	V9	19	DA	O3'-P-O5'	-9.02	86.86	104.00
227	VA	14	DA	O3'-P-O5'	-9.02	86.85	104.00
238	X9	45	DA	O3'-P-O5'	-9.02	86.86	104.00
1	A1	2	DA	O3'-P-O5'	-9.02	86.86	104.00
1	A1	48	DA	O3'-P-O5'	-9.02	86.86	104.00
6	A6	26	DA	O3'-P-O5'	-9.02	86.86	104.00
7	A7	33	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	73	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	164	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2308	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	4579	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5842	DA	O3'-P-O5'	-9.02	86.85	104.00
11	AB	5950	DA	O3'-P-O5'	-9.02	86.86	104.00
34	CA	9	DA	O3'-P-O5'	-9.02	86.86	104.00
106	J5	36	DA	O3'-P-O5'	-9.02	86.85	104.00
125	L1	3	DA	O3'-P-O5'	-9.02	86.85	104.00
11	AB	502	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1320	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1360	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1761	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2130	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2314	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2473	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2546	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2552	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2631	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2749	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5739	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6545	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6655	DA	O3'-P-O5'	-9.02	86.85	104.00
14	B1	25	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2921	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2998	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3037	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3198	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3973	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5013	DA	O3'-P-O5'	-9.02	86.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5911	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5314	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5337	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6455	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6732	DA	O3'-P-O5'	-9.02	86.86	104.00
113	JD	36	DA	O3'-P-O5'	-9.02	86.86	104.00
164	OC	21	DA	O3'-P-O5'	-9.02	86.86	104.00
175	PD	2	DA	O3'-P-O5'	-9.02	86.86	104.00
206	T7	51	DA	O3'-P-O5'	-9.02	86.85	104.00
11	AB	5340	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5647	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6373	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6472	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6681	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6976	DA	O3'-P-O5'	-9.02	86.86	104.00
15	B2	6	DA	O3'-P-O5'	-9.02	86.86	104.00
68	FC	1	DA	O3'-P-O5'	-9.02	86.86	104.00
171	P8	20	DA	O3'-P-O5'	-9.02	86.86	104.00
176	Q2	22	DA	O3'-P-O5'	-9.02	86.86	104.00
190	R9	39	DA	O3'-P-O5'	-9.02	86.86	104.00
219	UC	33	DA	O3'-P-O5'	-9.02	86.86	104.00
14	B1	36	DA	O3'-P-O5'	-9.02	86.86	104.00
29	C5	21	DA	O3'-P-O5'	-9.02	86.86	104.00
33	C9	22	DA	O3'-P-O5'	-9.02	86.86	104.00
61	F3	11	DA	O3'-P-O5'	-9.02	86.86	104.00
62	F5	11	DA	O3'-P-O5'	-9.02	86.86	104.00
62	F5	26	DA	O3'-P-O5'	-9.02	86.86	104.00
69	FD	11	DA	O3'-P-O5'	-9.02	86.86	104.00
69	FD	24	DA	O3'-P-O5'	-9.02	86.86	104.00
81	H1	15	DA	O3'-P-O5'	-9.02	86.86	104.00
81	H1	20	DA	O3'-P-O5'	-9.02	86.86	104.00
84	H5	10	DA	O3'-P-O5'	-9.02	86.86	104.00
85	H6	13	DA	O3'-P-O5'	-9.02	86.86	104.00
91	HD	6	DA	O3'-P-O5'	-9.02	86.86	104.00
107	J6	32	DA	O3'-P-O5'	-9.02	86.86	104.00
93	I2	6	DA	O3'-P-O5'	-9.02	86.86	104.00
94	I3	12	DA	O3'-P-O5'	-9.02	86.86	104.00
98	I8	15	DA	O3'-P-O5'	-9.02	86.86	104.00
99	I9	5	DA	O3'-P-O5'	-9.02	86.86	104.00
104	J2	33	DA	O3'-P-O5'	-9.02	86.86	104.00
107	J6	16	DA	O3'-P-O5'	-9.02	86.86	104.00
113	JD	8	DA	O3'-P-O5'	-9.02	86.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
130	L7	48	DA	O3'-P-O5'	-9.02	86.86	104.00
137	M3	15	DA	O3'-P-O5'	-9.02	86.86	104.00
162	O9	20	DA	O3'-P-O5'	-9.02	86.86	104.00
170	P7	14	DA	O3'-P-O5'	-9.02	86.86	104.00
177	Q3	26	DA	O3'-P-O5'	-9.02	86.86	104.00
180	Q8	7	DA	O3'-P-O5'	-9.02	86.86	104.00
189	R8	11	DA	O3'-P-O5'	-9.02	86.86	104.00
189	R8	32	DA	O3'-P-O5'	-9.02	86.86	104.00
191	RA	23	DA	O3'-P-O5'	-9.02	86.86	104.00
200	SA	20	DA	O3'-P-O5'	-9.02	86.86	104.00
209	TA	36	DA	O3'-P-O5'	-9.02	86.86	104.00
210	TC	28	DA	O3'-P-O5'	-9.02	86.86	104.00
230	W3	29	DA	O3'-P-O5'	-9.02	86.86	104.00
7	A7	32	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	12	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	629	DA	O3'-P-O5'	-9.02	86.86	104.00
71	G2	17	DA	O3'-P-O5'	-9.02	86.86	104.00
7	A7	21	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	465	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	814	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	982	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1030	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1424	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1514	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	1516	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1665	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1806	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1888	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2256	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2290	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3384	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	4824	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5327	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6332	DA	O3'-P-O5'	-9.02	86.86	104.00
19	B6	20	DA	O3'-P-O5'	-9.02	86.86	104.00
32	C8	16	DA	O3'-P-O5'	-9.02	86.86	104.00
202	SD	24	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	1618	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	1746	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2070	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	2458	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	2541	DA	O3'-P-O5'	-9.02	86.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2620	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3067	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3071	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3532	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3706	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3799	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5675	DA	O3'-P-O5'	-9.02	86.86	104.00
24	BC	19	DA	O3'-P-O5'	-9.02	86.86	104.00
136	M2	4	DA	O3'-P-O5'	-9.02	86.86	104.00
190	R9	14	DA	O3'-P-O5'	-9.02	86.86	104.00
190	R9	15	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	3102	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	3226	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	3581	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	3670	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	3751	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	4209	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	4387	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	4585	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	4749	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	5117	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	5171	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5172	DA	O3'-P-O5'	-9.02	86.86	104.00
48	E1	19	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5264	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5343	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5821	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5841	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	5912	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	5975	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6035	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6214	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6287	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	6784	DA	O3'-P-O5'	-9.02	86.86	104.00
11	AB	7008	DA	O3'-P-O5'	-9.02	86.86	104.00
15	B2	10	DA	O3'-P-O5'	-9.02	86.86	104.00
35	CC	20	DA	O3'-P-O5'	-9.02	86.86	104.00
51	E5	19	DA	O3'-P-O5'	-9.02	86.86	104.00
70	G1	12	DA	O3'-P-O5'	-9.02	86.86	104.00
82	H2	9	DA	O3'-P-O5'	-9.02	86.86	104.00
186	R3	8	DA	O3'-P-O5'	-9.02	86.86	104.00
201	SC	15	DA	O3'-P-O5'	-9.02	86.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
70	G1	18	DA	O3'-P-O5'	-9.02	86.86	104.00
87	H8	8	DA	O3'-P-O5'	-9.02	86.86	104.00
98	I8	22	DA	O3'-P-O5'	-9.02	86.86	104.00
130	L7	19	DA	O3'-P-O5'	-9.02	86.86	104.00
141	M8	13	DA	O3'-P-O5'	-9.02	86.86	104.00
100	IA	17	DA	O3'-P-O5'	-9.02	86.87	104.00
104	J2	39	DA	O3'-P-O5'	-9.02	86.86	104.00
106	J5	17	DA	O3'-P-O5'	-9.02	86.86	104.00
114	K1	33	DA	O3'-P-O5'	-9.02	86.86	104.00
122	KA	48	DA	O3'-P-O5'	-9.02	86.86	104.00
129	L6	12	DA	O3'-P-O5'	-9.02	86.86	104.00
129	L6	17	DA	O3'-P-O5'	-9.02	86.86	104.00
138	M5	41	DA	O3'-P-O5'	-9.02	86.86	104.00
158	O5	46	DA	O3'-P-O5'	-9.02	86.86	104.00
197	S7	18	DA	O3'-P-O5'	-9.02	86.86	104.00
131	L8	21	DA	O3'-P-O5'	-9.02	86.86	104.00
132	L9	6	DA	O3'-P-O5'	-9.02	86.86	104.00
134	LC	14	DA	O3'-P-O5'	-9.02	86.87	104.00
156	O2	15	DA	O3'-P-O5'	-9.02	86.86	104.00
184	QD	25	DA	O3'-P-O5'	-9.02	86.86	104.00
184	QD	28	DA	O3'-P-O5'	-9.02	86.86	104.00
165	OD	37	DA	O3'-P-O5'	-9.02	86.87	104.00
172	P9	9	DA	O3'-P-O5'	-9.02	86.86	104.00
184	QD	26	DA	O3'-P-O5'	-9.02	86.86	104.00
188	R7	21	DA	O3'-P-O5'	-9.02	86.86	104.00
194	S2	23	DA	O3'-P-O5'	-9.02	86.87	104.00
198	S8	20	DA	O3'-P-O5'	-9.02	86.86	104.00
232	W7	9	DA	O3'-P-O5'	-9.02	86.86	104.00
233	W8	11	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	466	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	1413	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	4022	DA	O3'-P-O5'	-9.02	86.87	104.00
62	F5	27	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	35	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	245	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	1204	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	5643	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	301	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	716	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	1762	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	2004	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	2632	DA	O3'-P-O5'	-9.02	86.87	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2791	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	2922	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	3240	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	3539	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	3735	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	3357	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	3737	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	3883	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	4045	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	4750	DA	O3'-P-O5'	-9.02	86.87	104.00
205	T5	10	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	4555	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	4586	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	4917	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	4955	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	5196	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	5406	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	5569	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	6083	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	6235	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	6625	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	6697	DA	O3'-P-O5'	-9.02	86.87	104.00
15	B2	5	DA	O3'-P-O5'	-9.02	86.87	104.00
24	BC	17	DA	O3'-P-O5'	-9.02	86.87	104.00
34	CA	5	DA	O3'-P-O5'	-9.02	86.87	104.00
94	I3	15	DA	O3'-P-O5'	-9.02	86.87	104.00
163	OA	6	DA	O3'-P-O5'	-9.02	86.87	104.00
170	P7	18	DA	O3'-P-O5'	-9.02	86.87	104.00
201	SC	16	DA	O3'-P-O5'	-9.02	86.87	104.00
44	D9	14	DA	O3'-P-O5'	-9.02	86.87	104.00
54	E8	8	DA	O3'-P-O5'	-9.02	86.87	104.00
62	F5	34	DA	O3'-P-O5'	-9.02	86.87	104.00
74	G6	17	DA	O3'-P-O5'	-9.02	86.87	104.00
75	G7	1	DA	O3'-P-O5'	-9.02	86.87	104.00
103	J1	5	DA	O3'-P-O5'	-9.02	86.87	104.00
107	J6	37	DA	O3'-P-O5'	-9.02	86.87	104.00
124	KD	2	DA	O3'-P-O5'	-9.02	86.87	104.00
126	L2	49	DA	O3'-P-O5'	-9.02	86.87	104.00
129	L6	15	DA	O3'-P-O5'	-9.02	86.87	104.00
129	L6	26	DA	O3'-P-O5'	-9.02	86.87	104.00
130	L7	47	DA	O3'-P-O5'	-9.02	86.87	104.00
132	L9	7	DA	O3'-P-O5'	-9.02	86.87	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
145	MD	43	DA	O3'-P-O5'	-9.02	86.87	104.00
148	N5	19	DA	O3'-P-O5'	-9.02	86.87	104.00
154	NC	11	DA	O3'-P-O5'	-9.02	86.87	104.00
158	O5	9	DA	O3'-P-O5'	-9.02	86.87	104.00
161	O8	41	DA	O3'-P-O5'	-9.02	86.87	104.00
165	OD	3	DA	O3'-P-O5'	-9.02	86.87	104.00
165	OD	52	DA	O3'-P-O5'	-9.02	86.87	104.00
206	T7	28	DA	O3'-P-O5'	-9.02	86.87	104.00
173	PA	5	DA	O3'-P-O5'	-9.02	86.87	104.00
176	Q2	5	DA	O3'-P-O5'	-9.02	86.87	104.00
176	Q2	9	DA	O3'-P-O5'	-9.02	86.87	104.00
178	Q5	1	DA	O3'-P-O5'	-9.02	86.87	104.00
178	Q5	17	DA	O3'-P-O5'	-9.02	86.87	104.00
178	Q5	26	DA	O3'-P-O5'	-9.02	86.87	104.00
178	Q5	40	DA	O3'-P-O5'	-9.02	86.87	104.00
209	TA	10	DA	O3'-P-O5'	-9.02	86.87	104.00
179	Q7	9	DA	O3'-P-O5'	-9.02	86.87	104.00
181	Q9	5	DA	O3'-P-O5'	-9.02	86.87	104.00
184	QD	9	DA	O3'-P-O5'	-9.02	86.87	104.00
189	R8	3	DA	O3'-P-O5'	-9.02	86.87	104.00
189	R8	10	DA	O3'-P-O5'	-9.02	86.87	104.00
193	RD	20	DA	O3'-P-O5'	-9.02	86.87	104.00
198	S8	21	DA	O3'-P-O5'	-9.02	86.87	104.00
226	V9	5	DA	O3'-P-O5'	-9.02	86.87	104.00
226	V9	7	DA	O3'-P-O5'	-9.02	86.87	104.00
238	X9	16	DA	O3'-P-O5'	-9.02	86.87	104.00
238	X9	28	DA	O3'-P-O5'	-9.02	86.87	104.00
11	AB	995	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	2779	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	3388	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	5573	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	5961	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	6523	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	6530	DA	O3'-P-O5'	-9.01	86.87	104.00
82	H2	23	DA	O3'-P-O5'	-9.01	86.87	104.00
94	I3	30	DA	O3'-P-O5'	-9.01	86.87	104.00
114	K1	11	DA	O3'-P-O5'	-9.01	86.87	104.00
181	Q9	3	DA	O3'-P-O5'	-9.01	86.87	104.00
193	RD	16	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	97	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	484	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	1084	DA	O3'-P-O5'	-9.01	86.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1765	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	1870	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	2125	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	2154	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	3101	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	3202	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	3257	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	3597	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	3926	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	4895	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	5309	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	5833	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	6967	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	2161	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	2812	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	3074	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	3094	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	4207	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	4474	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	4560	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	4878	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	5612	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	5951	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	6066	DA	O3'-P-O5'	-9.01	86.87	104.00
26	C1	9	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	5326	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	5335	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	5353	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	5776	DA	O3'-P-O5'	-9.01	86.87	104.00
28	C3	10	DA	O3'-P-O5'	-9.01	86.87	104.00
31	C7	25	DA	O3'-P-O5'	-9.01	86.87	104.00
35	CC	24	DA	O3'-P-O5'	-9.01	86.87	104.00
107	J6	38	DA	O3'-P-O5'	-9.01	86.87	104.00
230	W3	44	DA	O3'-P-O5'	-9.01	86.87	104.00
11	AB	5419	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6044	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6361	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6650	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6921	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6975	DA	O3'-P-O5'	-9.01	86.88	104.00
23	BA	13	DA	O3'-P-O5'	-9.01	86.88	104.00
34	CA	2	DA	O3'-P-O5'	-9.01	86.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	D3	14	DA	O3'-P-O5'	-9.01	86.88	104.00
40	D5	10	DA	O3'-P-O5'	-9.01	86.88	104.00
41	D6	42	DA	O3'-P-O5'	-9.01	86.87	104.00
55	E9	26	DA	O3'-P-O5'	-9.01	86.87	104.00
64	F7	5	DA	O3'-P-O5'	-9.01	86.87	104.00
95	I5	19	DA	O3'-P-O5'	-9.01	86.87	104.00
55	E9	35	DA	O3'-P-O5'	-9.01	86.88	104.00
65	F8	7	DA	O3'-P-O5'	-9.01	86.88	104.00
78	GA	14	DA	O3'-P-O5'	-9.01	86.88	104.00
87	H8	9	DA	O3'-P-O5'	-9.01	86.87	104.00
127	L3	8	DA	O3'-P-O5'	-9.01	86.87	104.00
87	H8	25	DA	O3'-P-O5'	-9.01	86.88	104.00
92	I1	9	DA	O3'-P-O5'	-9.01	86.88	104.00
106	J5	16	DA	O3'-P-O5'	-9.01	86.88	104.00
121	K9	5	DA	O3'-P-O5'	-9.01	86.88	104.00
148	N5	31	DA	O3'-P-O5'	-9.01	86.87	104.00
126	L2	54	DA	O3'-P-O5'	-9.01	86.88	104.00
130	L7	43	DA	O3'-P-O5'	-9.01	86.88	104.00
136	M2	14	DA	O3'-P-O5'	-9.01	86.88	104.00
145	MD	7	DA	O3'-P-O5'	-9.01	86.88	104.00
148	N5	32	DA	O3'-P-O5'	-9.01	86.88	104.00
157	O3	14	DA	O3'-P-O5'	-9.01	86.88	104.00
161	O8	40	DA	O3'-P-O5'	-9.01	86.88	104.00
165	OD	17	DA	O3'-P-O5'	-9.01	86.88	104.00
170	P7	20	DA	O3'-P-O5'	-9.01	86.88	104.00
173	PA	31	DA	O3'-P-O5'	-9.01	86.88	104.00
174	PC	16	DA	O3'-P-O5'	-9.01	86.88	104.00
176	Q2	7	DA	O3'-P-O5'	-9.01	86.88	104.00
191	RA	21	DA	O3'-P-O5'	-9.01	86.88	104.00
193	RD	15	DA	O3'-P-O5'	-9.01	86.88	104.00
195	S3	16	DA	O3'-P-O5'	-9.01	86.88	104.00
198	S8	22	DA	O3'-P-O5'	-9.01	86.88	104.00
214	U5	32	DA	O3'-P-O5'	-9.01	86.88	104.00
221	V2	10	DA	O3'-P-O5'	-9.01	86.87	104.00
229	VD	12	DA	O3'-P-O5'	-9.01	86.88	104.00
238	X9	18	DA	O3'-P-O5'	-9.01	86.88	104.00
238	X9	30	DA	O3'-P-O5'	-9.01	86.88	104.00
3	A3	21	DA	O3'-P-O5'	-9.01	86.88	104.00
6	A6	11	DA	O3'-P-O5'	-9.01	86.88	104.00
6	A6	12	DA	O3'-P-O5'	-9.01	86.88	104.00
7	A7	26	DA	O3'-P-O5'	-9.01	86.88	104.00
9	A9	13	DA	O3'-P-O5'	-9.01	86.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	154	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	986	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	1456	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	747	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	838	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	1652	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	2386	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	3239	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6970	DA	O3'-P-O5'	-9.01	86.88	104.00
64	F7	10	DA	O3'-P-O5'	-9.01	86.88	104.00
167	P3	26	DA	O3'-P-O5'	-9.01	86.88	104.00
196	S5	18	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	1322	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	2164	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	2361	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	2377	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	2564	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	3073	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	3592	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	3595	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	3808	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	4578	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	5846	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	4651	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	4989	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	5562	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	5769	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	5903	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	5933	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6178	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6441	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6529	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6676	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6682	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6698	DA	O3'-P-O5'	-9.01	86.88	104.00
52	E6	8	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6769	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	7125	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	7223	DA	O3'-P-O5'	-9.01	86.88	104.00
14	B1	16	DA	O3'-P-O5'	-9.01	86.88	104.00
37	D1	6	DA	O3'-P-O5'	-9.01	86.88	104.00
84	H5	18	DA	O3'-P-O5'	-9.01	86.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
159	O6	13	DA	O3'-P-O5'	-9.01	86.88	104.00
167	P3	11	DA	O3'-P-O5'	-9.01	86.88	104.00
16	B3	21	DA	O3'-P-O5'	-9.01	86.88	104.00
21	B8	21	DA	O3'-P-O5'	-9.01	86.88	104.00
22	B9	26	DA	O3'-P-O5'	-9.01	86.88	104.00
23	BA	19	DA	O3'-P-O5'	-9.01	86.88	104.00
24	BC	37	DA	O3'-P-O5'	-9.01	86.88	104.00
25	BD	19	DA	O3'-P-O5'	-9.01	86.88	104.00
179	Q7	26	DA	O3'-P-O5'	-9.01	86.88	104.00
25	BD	14	DA	O3'-P-O5'	-9.01	86.88	104.00
48	E1	28	DA	O3'-P-O5'	-9.01	86.88	104.00
59	F1	5	DA	O3'-P-O5'	-9.01	86.88	104.00
62	F5	12	DA	O3'-P-O5'	-9.01	86.88	104.00
69	FD	4	DA	O3'-P-O5'	-9.01	86.88	104.00
71	G2	18	DA	O3'-P-O5'	-9.01	86.88	104.00
85	H6	32	DA	O3'-P-O5'	-9.01	86.88	104.00
69	FD	35	DA	O3'-P-O5'	-9.01	86.88	104.00
79	GC	9	DA	O3'-P-O5'	-9.01	86.88	104.00
83	H3	34	DA	O3'-P-O5'	-9.01	86.88	104.00
100	IA	16	DA	O3'-P-O5'	-9.01	86.88	104.00
113	JD	19	DA	O3'-P-O5'	-9.01	86.88	104.00
114	K1	32	DA	O3'-P-O5'	-9.01	86.88	104.00
132	L9	2	DA	O3'-P-O5'	-9.01	86.88	104.00
140	M7	25	DA	O3'-P-O5'	-9.01	86.88	104.00
161	O8	45	DA	O3'-P-O5'	-9.01	86.88	104.00
163	OA	7	DA	O3'-P-O5'	-9.01	86.88	104.00
165	OD	2	DA	O3'-P-O5'	-9.01	86.88	104.00
181	Q9	26	DA	O3'-P-O5'	-9.01	86.88	104.00
189	R8	24	DA	O3'-P-O5'	-9.01	86.88	104.00
196	S5	26	DA	O3'-P-O5'	-9.01	86.88	104.00
220	UD	14	DA	O3'-P-O5'	-9.01	86.88	104.00
236	X5	12	DA	O3'-P-O5'	-9.01	86.88	104.00
204	T3	10	DA	O3'-P-O5'	-9.01	86.88	104.00
211	TD	4	DA	O3'-P-O5'	-9.01	86.88	104.00
212	U2	7	DA	O3'-P-O5'	-9.01	86.88	104.00
1	A1	32	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	141	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	278	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	551	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	2385	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6199	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	157	DA	O3'-P-O5'	-9.01	86.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	268	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	990	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	1605	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	1651	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	2219	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	2947	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	1063	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	1767	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	2304	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	2324	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	2942	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	3058	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	3431	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	3594	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	3724	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	4780	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6045	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	6109	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	6326	DA	O3'-P-O5'	-9.01	86.88	104.00
11	AB	6747	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	6868	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	7023	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	7142	DA	O3'-P-O5'	-9.01	86.89	104.00
24	BC	24	DA	O3'-P-O5'	-9.01	86.89	104.00
30	C6	34	DA	O3'-P-O5'	-9.01	86.89	104.00
33	C9	24	DA	O3'-P-O5'	-9.01	86.89	104.00
69	FD	6	DA	O3'-P-O5'	-9.01	86.89	104.00
83	H3	31	DA	O3'-P-O5'	-9.01	86.89	104.00
95	I5	39	DA	O3'-P-O5'	-9.01	86.88	104.00
98	I8	7	DA	O3'-P-O5'	-9.01	86.89	104.00
130	L7	2	DA	O3'-P-O5'	-9.01	86.88	104.00
137	M3	3	DA	O3'-P-O5'	-9.01	86.89	104.00
194	S2	19	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	2010	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	3092	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	3275	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	3382	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	3416	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	3970	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	3971	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	3982	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	4894	DA	O3'-P-O5'	-9.01	86.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5486	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	5649	DA	O3'-P-O5'	-9.01	86.89	104.00
28	C3	11	DA	O3'-P-O5'	-9.01	86.89	104.00
30	C6	5	DA	O3'-P-O5'	-9.01	86.89	104.00
75	G7	8	DA	O3'-P-O5'	-9.01	86.89	104.00
122	KA	22	DA	O3'-P-O5'	-9.01	86.89	104.00
211	TD	3	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	5494	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	5957	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	6213	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	6531	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	6691	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	6814	DA	O3'-P-O5'	-9.01	86.89	104.00
25	BD	13	DA	O3'-P-O5'	-9.01	86.89	104.00
48	E1	3	DA	O3'-P-O5'	-9.01	86.89	104.00
92	I1	6	DA	O3'-P-O5'	-9.01	86.88	104.00
101	IC	15	DA	O3'-P-O5'	-9.01	86.89	104.00
107	J6	10	DA	O3'-P-O5'	-9.01	86.89	104.00
132	L9	9	DA	O3'-P-O5'	-9.01	86.88	104.00
160	O7	6	DA	O3'-P-O5'	-9.01	86.89	104.00
177	Q3	23	DA	O3'-P-O5'	-9.01	86.89	104.00
186	R3	9	DA	O3'-P-O5'	-9.01	86.88	104.00
230	W3	43	DA	O3'-P-O5'	-9.01	86.89	104.00
233	W8	10	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	7009	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	7126	DA	O3'-P-O5'	-9.01	86.89	104.00
11	AB	7175	DA	O3'-P-O5'	-9.01	86.89	104.00
17	B4	8	DA	O3'-P-O5'	-9.01	86.89	104.00
17	B4	9	DA	O3'-P-O5'	-9.01	86.89	104.00
106	J5	35	DA	O3'-P-O5'	-9.01	86.89	104.00
19	B6	19	DA	O3'-P-O5'	-9.01	86.89	104.00
29	C5	12	DA	O3'-P-O5'	-9.01	86.89	104.00
33	C9	16	DA	O3'-P-O5'	-9.01	86.89	104.00
50	E3	6	DA	O3'-P-O5'	-9.01	86.89	104.00
63	F6	19	DA	O3'-P-O5'	-9.01	86.89	104.00
98	I8	18	DA	O3'-P-O5'	-9.01	86.89	104.00
106	J5	18	DA	O3'-P-O5'	-9.01	86.89	104.00
131	L8	19	DA	O3'-P-O5'	-9.01	86.89	104.00
137	M3	19	DA	O3'-P-O5'	-9.01	86.89	104.00
141	M8	7	DA	O3'-P-O5'	-9.01	86.89	104.00
141	M8	24	DA	O3'-P-O5'	-9.01	86.89	104.00
143	MA	28	DA	O3'-P-O5'	-9.01	86.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
179	Q7	15	DA	O3'-P-O5'	-9.01	86.89	104.00
152	N9	8	DA	O3'-P-O5'	-9.01	86.89	104.00
171	P8	28	DA	O3'-P-O5'	-9.01	86.89	104.00
173	PA	12	DA	O3'-P-O5'	-9.01	86.89	104.00
173	PA	30	DA	O3'-P-O5'	-9.01	86.89	104.00
178	Q5	16	DA	O3'-P-O5'	-9.01	86.89	104.00
179	Q7	8	DA	O3'-P-O5'	-9.01	86.89	104.00
191	RA	22	DA	O3'-P-O5'	-9.01	86.89	104.00
195	S3	9	DA	O3'-P-O5'	-9.01	86.89	104.00
214	U5	33	DA	O3'-P-O5'	-9.01	86.89	104.00
8	A8	11	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	513	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	996	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	1617	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	1777	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	1958	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	2468	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	4916	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	5055	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	6388	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	6626	DA	O3'-P-O5'	-9.00	86.89	104.00
76	G8	10	DA	O3'-P-O5'	-9.00	86.89	104.00
89	HA	29	DA	O3'-P-O5'	-9.00	86.89	104.00
113	JD	18	DA	O3'-P-O5'	-9.00	86.89	104.00
209	TA	37	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	84	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	147	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	352	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1003	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1764	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	2002	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	2049	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	2075	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	2908	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	3249	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	4893	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	2464	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	2731	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	2776	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	3250	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	7143	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	3876	DA	O3'-P-O5'	-9.00	86.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4962	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	6452	DA	O3'-P-O5'	-9.00	86.89	104.00
11	AB	6608	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	6777	DA	O3'-P-O5'	-9.00	86.89	104.00
23	BA	11	DA	O3'-P-O5'	-9.00	86.89	104.00
23	BA	12	DA	O3'-P-O5'	-9.00	86.89	104.00
22	B9	51	DA	O3'-P-O5'	-9.00	86.89	104.00
34	CA	8	DA	O3'-P-O5'	-9.00	86.90	104.00
38	D2	4	DA	O3'-P-O5'	-9.00	86.89	104.00
41	D6	10	DA	O3'-P-O5'	-9.00	86.89	104.00
50	E3	9	DA	O3'-P-O5'	-9.00	86.89	104.00
51	E5	29	DA	O3'-P-O5'	-9.00	86.89	104.00
66	F9	10	DA	O3'-P-O5'	-9.00	86.89	104.00
67	FA	4	DA	O3'-P-O5'	-9.00	86.89	104.00
69	FD	20	DA	O3'-P-O5'	-9.00	86.89	104.00
97	I7	16	DA	O3'-P-O5'	-9.00	86.89	104.00
97	I7	18	DA	O3'-P-O5'	-9.00	86.89	104.00
102	ID	18	DA	O3'-P-O5'	-9.00	86.89	104.00
137	M3	2	DA	O3'-P-O5'	-9.00	86.89	104.00
85	H6	33	DA	O3'-P-O5'	-9.00	86.90	104.00
87	H8	13	DA	O3'-P-O5'	-9.00	86.89	104.00
102	ID	19	DA	O3'-P-O5'	-9.00	86.89	104.00
121	K9	11	DA	O3'-P-O5'	-9.00	86.89	104.00
101	IC	10	DA	O3'-P-O5'	-9.00	86.89	104.00
108	J7	39	DA	O3'-P-O5'	-9.00	86.89	104.00
109	J8	45	DA	O3'-P-O5'	-9.00	86.89	104.00
113	JD	35	DA	O3'-P-O5'	-9.00	86.89	104.00
126	L2	55	DA	O3'-P-O5'	-9.00	86.90	104.00
127	L3	12	DA	O3'-P-O5'	-9.00	86.89	104.00
135	LD	20	DA	O3'-P-O5'	-9.00	86.89	104.00
137	M3	1	DA	O3'-P-O5'	-9.00	86.90	104.00
142	M9	19	DA	O3'-P-O5'	-9.00	86.89	104.00
145	MD	5	DA	O3'-P-O5'	-9.00	86.90	104.00
145	MD	8	DA	O3'-P-O5'	-9.00	86.90	104.00
145	MD	20	DA	O3'-P-O5'	-9.00	86.90	104.00
145	MD	57	DA	O3'-P-O5'	-9.00	86.90	104.00
175	PD	12	DA	O3'-P-O5'	-9.00	86.90	104.00
190	R9	26	DA	O3'-P-O5'	-9.00	86.90	104.00
192	RC	14	DA	O3'-P-O5'	-9.00	86.89	104.00
195	S3	15	DA	O3'-P-O5'	-9.00	86.89	104.00
231	W5	21	DA	O3'-P-O5'	-9.00	86.89	104.00
202	SD	7	DA	O3'-P-O5'	-9.00	86.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
226	V9	1	DA	O3'-P-O5'	-9.00	86.89	104.00
238	X9	15	DA	O3'-P-O5'	-9.00	86.89	104.00
2	A2	30	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	68	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1664	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	3365	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	4561	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	4652	DA	O3'-P-O5'	-9.00	86.90	104.00
145	MD	6	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	59	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	72	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	156	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	985	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1170	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1178	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1186	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1453	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1607	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1889	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1917	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	2009	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	2163	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	2777	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	4015	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	4371	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	4475	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	4562	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	4911	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	6164	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	6515	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	5263	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	5668	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	7121	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	7127	DA	O3'-P-O5'	-9.00	86.90	104.00
19	B6	5	DA	O3'-P-O5'	-9.00	86.90	104.00
102	ID	28	DA	O3'-P-O5'	-9.00	86.90	104.00
114	K1	29	DA	O3'-P-O5'	-9.00	86.90	104.00
33	C9	17	DA	O3'-P-O5'	-9.00	86.90	104.00
37	D1	40	DA	O3'-P-O5'	-9.00	86.90	104.00
43	D8	6	DA	O3'-P-O5'	-9.00	86.90	104.00
49	E2	36	DA	O3'-P-O5'	-9.00	86.90	104.00
82	H2	41	DA	O3'-P-O5'	-9.00	86.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
101	IC	14	DA	O3'-P-O5'	-9.00	86.90	104.00
104	J2	23	DA	O3'-P-O5'	-9.00	86.90	104.00
121	K9	10	DA	O3'-P-O5'	-9.00	86.90	104.00
145	MD	18	DA	O3'-P-O5'	-9.00	86.90	104.00
152	N9	35	DA	O3'-P-O5'	-9.00	86.90	104.00
107	J6	25	DA	O3'-P-O5'	-9.00	86.90	104.00
137	M3	18	DA	O3'-P-O5'	-9.00	86.90	104.00
147	N3	31	DA	O3'-P-O5'	-9.00	86.90	104.00
157	O3	15	DA	O3'-P-O5'	-9.00	86.90	104.00
158	O5	45	DA	O3'-P-O5'	-9.00	86.90	104.00
176	Q2	18	DA	O3'-P-O5'	-9.00	86.90	104.00
198	S8	35	DA	O3'-P-O5'	-9.00	86.90	104.00
161	O8	21	DA	O3'-P-O5'	-9.00	86.90	104.00
173	PA	13	DA	O3'-P-O5'	-9.00	86.90	104.00
180	Q8	14	DA	O3'-P-O5'	-9.00	86.90	104.00
201	SC	7	DA	O3'-P-O5'	-9.00	86.90	104.00
202	SD	8	DA	O3'-P-O5'	-9.00	86.90	104.00
228	VC	3	DA	O3'-P-O5'	-9.00	86.90	104.00
235	WD	14	DA	O3'-P-O5'	-9.00	86.90	104.00
238	X9	29	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1033	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	3634	DA	O3'-P-O5'	-9.00	86.90	104.00
185	R2	9	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	83	DA	O3'-P-O5'	-9.00	86.91	104.00
11	AB	96	DA	O3'-P-O5'	-9.00	86.91	104.00
11	AB	2472	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	3256	DA	O3'-P-O5'	-9.00	86.90	104.00
53	E7	23	DA	O3'-P-O5'	-9.00	86.90	104.00
135	LD	14	DA	O3'-P-O5'	-9.00	86.90	104.00
135	LD	18	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	1890	DA	O3'-P-O5'	-9.00	86.91	104.00
11	AB	2305	DA	O3'-P-O5'	-9.00	86.91	104.00
11	AB	3078	DA	O3'-P-O5'	-9.00	86.91	104.00
11	AB	5428	DA	O3'-P-O5'	-9.00	86.91	104.00
24	BC	20	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	3079	DA	O3'-P-O5'	-9.00	86.91	104.00
11	AB	3082	DA	O3'-P-O5'	-9.00	86.91	104.00
11	AB	3217	DA	O3'-P-O5'	-9.00	86.91	104.00
138	M5	33	DA	O3'-P-O5'	-9.00	86.90	104.00
11	AB	3736	DA	O3'-P-O5'	-9.00	86.91	104.00
11	AB	3864	DA	O3'-P-O5'	-9.00	86.91	104.00
11	AB	4023	DA	O3'-P-O5'	-9.00	86.91	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7022	DA	O3'-P-O5'	-9.00	86.91	104.00
11	AB	7124	DA	O3'-P-O5'	-9.00	86.91	104.00
14	B1	24	DA	O3'-P-O5'	-9.00	86.91	104.00
24	BC	13	DA	O3'-P-O5'	-9.00	86.90	104.00
165	OD	41	DA	O3'-P-O5'	-9.00	86.90	104.00
19	B6	2	DA	O3'-P-O5'	-9.00	86.91	104.00
30	C6	1	DA	O3'-P-O5'	-9.00	86.91	104.00
32	C8	6	DA	O3'-P-O5'	-9.00	86.91	104.00
34	CA	4	DA	O3'-P-O5'	-9.00	86.91	104.00
47	DD	31	DA	O3'-P-O5'	-9.00	86.91	104.00
51	E5	30	DA	O3'-P-O5'	-9.00	86.91	104.00
66	F9	9	DA	O3'-P-O5'	-9.00	86.91	104.00
70	G1	11	DA	O3'-P-O5'	-9.00	86.91	104.00
83	H3	32	DA	O3'-P-O5'	-9.00	86.91	104.00
83	H3	33	DA	O3'-P-O5'	-9.00	86.91	104.00
108	J7	9	DA	O3'-P-O5'	-9.00	86.91	104.00
108	J7	38	DA	O3'-P-O5'	-9.00	86.91	104.00
119	K7	14	DA	O3'-P-O5'	-9.00	86.90	104.00
108	J7	40	DA	O3'-P-O5'	-9.00	86.91	104.00
121	K9	12	DA	O3'-P-O5'	-9.00	86.91	104.00
126	L2	12	DA	O3'-P-O5'	-9.00	86.90	104.00
126	L2	56	DA	O3'-P-O5'	-9.00	86.91	104.00
130	L7	15	DA	O3'-P-O5'	-9.00	86.91	104.00
131	L8	22	DA	O3'-P-O5'	-9.00	86.91	104.00
136	M2	9	DA	O3'-P-O5'	-9.00	86.90	104.00
137	M3	6	DA	O3'-P-O5'	-9.00	86.91	104.00
138	M5	34	DA	O3'-P-O5'	-9.00	86.90	104.00
145	MD	19	DA	O3'-P-O5'	-9.00	86.91	104.00
159	O6	18	DA	O3'-P-O5'	-9.00	86.90	104.00
192	RC	13	DA	O3'-P-O5'	-9.00	86.91	104.00
206	T7	18	DA	O3'-P-O5'	-9.00	86.91	104.00
206	T7	48	DA	O3'-P-O5'	-9.00	86.90	104.00
221	V2	9	DA	O3'-P-O5'	-9.00	86.91	104.00
238	X9	39	DA	O3'-P-O5'	-9.00	86.90	104.00
223	V5	28	DA	O3'-P-O5'	-9.00	86.91	104.00
1	A1	43	DA	O3'-P-O5'	-8.99	86.91	104.00
7	A7	24	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	106	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	155	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	508	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	1035	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	1290	DA	O3'-P-O5'	-8.99	86.91	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2320	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	2790	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	2895	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	2948	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	3049	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	3205	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	4208	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	5648	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	5888	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	6055	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	6544	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	6781	DA	O3'-P-O5'	-8.99	86.91	104.00
35	CC	23	DA	O3'-P-O5'	-8.99	86.91	104.00
41	D6	24	DA	O3'-P-O5'	-8.99	86.91	104.00
49	E2	20	DA	O3'-P-O5'	-8.99	86.91	104.00
73	G5	18	DA	O3'-P-O5'	-8.99	86.91	104.00
75	G7	20	DA	O3'-P-O5'	-8.99	86.91	104.00
98	I8	17	DA	O3'-P-O5'	-8.99	86.91	104.00
121	K9	28	DA	O3'-P-O5'	-8.99	86.91	104.00
157	O3	13	DA	O3'-P-O5'	-8.99	86.91	104.00
173	PA	33	DA	O3'-P-O5'	-8.99	86.91	104.00
177	Q3	24	DA	O3'-P-O5'	-8.99	86.91	104.00
190	R9	17	DA	O3'-P-O5'	-8.99	86.91	104.00
201	SC	14	DA	O3'-P-O5'	-8.99	86.91	104.00
210	TC	20	DA	O3'-P-O5'	-8.99	86.91	104.00
235	WD	17	DA	O3'-P-O5'	-8.99	86.91	104.00
236	X5	13	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	297	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	1483	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	1735	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	1791	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	1792	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	1869	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	2784	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	3225	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	3274	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	3538	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	5107	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	5250	DA	O3'-P-O5'	-8.99	86.91	104.00
38	D2	7	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	5422	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	5666	DA	O3'-P-O5'	-8.99	86.92	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5974	DA	O3'-P-O5'	-8.99	86.91	104.00
11	AB	6296	DA	O3'-P-O5'	-8.99	86.92	104.00
21	B8	17	DA	O3'-P-O5'	-8.99	86.91	104.00
69	FD	5	DA	O3'-P-O5'	-8.99	86.91	104.00
29	C5	11	DA	O3'-P-O5'	-8.99	86.92	104.00
41	D6	23	DA	O3'-P-O5'	-8.99	86.92	104.00
71	G2	15	DA	O3'-P-O5'	-8.99	86.92	104.00
81	H1	16	DA	O3'-P-O5'	-8.99	86.91	104.00
82	H2	52	DA	O3'-P-O5'	-8.99	86.91	104.00
132	L9	4	DA	O3'-P-O5'	-8.99	86.91	104.00
145	MD	1	DA	O3'-P-O5'	-8.99	86.91	104.00
148	N5	26	DA	O3'-P-O5'	-8.99	86.91	104.00
152	N9	32	DA	O3'-P-O5'	-8.99	86.91	104.00
196	S5	10	DA	O3'-P-O5'	-8.99	86.91	104.00
229	VD	11	DA	O3'-P-O5'	-8.99	86.91	104.00
83	H3	20	DA	O3'-P-O5'	-8.99	86.92	104.00
152	N9	7	DA	O3'-P-O5'	-8.99	86.91	104.00
158	O5	10	DA	O3'-P-O5'	-8.99	86.92	104.00
158	O5	24	DA	O3'-P-O5'	-8.99	86.91	104.00
205	T5	23	DA	O3'-P-O5'	-8.99	86.91	104.00
158	O5	38	DA	O3'-P-O5'	-8.99	86.92	104.00
159	O6	21	DA	O3'-P-O5'	-8.99	86.92	104.00
165	OD	40	DA	O3'-P-O5'	-8.99	86.92	104.00
176	Q2	8	DA	O3'-P-O5'	-8.99	86.91	104.00
211	TD	31	DA	O3'-P-O5'	-8.99	86.92	104.00
229	VD	13	DA	O3'-P-O5'	-8.99	86.91	104.00
1	A1	46	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	111	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	277	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	318	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	1177	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	1596	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	1880	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	1919	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	2370	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	3580	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	4498	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	4556	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	4559	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	4779	DA	O3'-P-O5'	-8.99	86.92	104.00
95	I5	16	DA	O3'-P-O5'	-8.99	86.92	104.00
194	S2	6	DA	O3'-P-O5'	-8.99	86.92	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1760	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	2008	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	2501	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	3216	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	4050	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	4200	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	5043	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	5667	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	5887	DA	O3'-P-O5'	-8.99	86.92	104.00
26	C1	8	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	6295	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	6362	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	6389	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	6390	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	6974	DA	O3'-P-O5'	-8.99	86.92	104.00
29	C5	28	DA	O3'-P-O5'	-8.99	86.92	104.00
39	D3	15	DA	O3'-P-O5'	-8.99	86.92	104.00
59	F1	15	DA	O3'-P-O5'	-8.99	86.92	104.00
69	FD	18	DA	O3'-P-O5'	-8.99	86.92	104.00
92	I1	11	DA	O3'-P-O5'	-8.99	86.92	104.00
100	IA	18	DA	O3'-P-O5'	-8.99	86.92	104.00
107	J6	8	DA	O3'-P-O5'	-8.99	86.92	104.00
114	K1	18	DA	O3'-P-O5'	-8.99	86.92	104.00
107	J6	9	DA	O3'-P-O5'	-8.99	86.92	104.00
145	MD	56	DA	O3'-P-O5'	-8.99	86.92	104.00
153	NA	18	DA	O3'-P-O5'	-8.99	86.92	104.00
158	O5	11	DA	O3'-P-O5'	-8.99	86.92	104.00
161	O8	10	DA	O3'-P-O5'	-8.99	86.92	104.00
167	P3	25	DA	O3'-P-O5'	-8.99	86.92	104.00
172	P9	7	DA	O3'-P-O5'	-8.99	86.92	104.00
205	T5	12	DA	O3'-P-O5'	-8.99	86.92	104.00
213	U3	8	DA	O3'-P-O5'	-8.99	86.92	104.00
229	VD	16	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	46	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	552	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	2471	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	71	DA	O3'-P-O5'	-8.99	86.93	104.00
11	AB	88	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	153	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	276	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	697	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	1057	DA	O3'-P-O5'	-8.99	86.92	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2661	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	2727	DA	O3'-P-O5'	-8.99	86.92	104.00
114	K1	19	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	2775	DA	O3'-P-O5'	-8.99	86.93	104.00
11	AB	3266	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	5910	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	3593	DA	O3'-P-O5'	-8.99	86.93	104.00
11	AB	5108	DA	O3'-P-O5'	-8.99	86.93	104.00
11	AB	5332	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	5352	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	5553	DA	O3'-P-O5'	-8.99	86.93	104.00
11	AB	5561	DA	O3'-P-O5'	-8.99	86.92	104.00
11	AB	6677	DA	O3'-P-O5'	-8.99	86.93	104.00
14	B1	23	DA	O3'-P-O5'	-8.99	86.92	104.00
25	BD	15	DA	O3'-P-O5'	-8.99	86.92	104.00
32	C8	1	DA	O3'-P-O5'	-8.99	86.92	104.00
33	C9	23	DA	O3'-P-O5'	-8.99	86.92	104.00
37	D1	39	DA	O3'-P-O5'	-8.99	86.92	104.00
41	D6	11	DA	O3'-P-O5'	-8.99	86.92	104.00
85	H6	3	DA	O3'-P-O5'	-8.99	86.92	104.00
69	FD	19	DA	O3'-P-O5'	-8.99	86.93	104.00
76	G8	9	DA	O3'-P-O5'	-8.99	86.92	104.00
113	JD	17	DA	O3'-P-O5'	-8.99	86.92	104.00
119	K7	15	DA	O3'-P-O5'	-8.99	86.92	104.00
126	L2	37	DA	O3'-P-O5'	-8.99	86.92	104.00
82	H2	51	DA	O3'-P-O5'	-8.99	86.93	104.00
95	I5	20	DA	O3'-P-O5'	-8.99	86.93	104.00
112	JC	8	DA	O3'-P-O5'	-8.99	86.93	104.00
125	L1	8	DA	O3'-P-O5'	-8.99	86.92	104.00
140	M7	24	DA	O3'-P-O5'	-8.99	86.92	104.00
126	L2	6	DA	O3'-P-O5'	-8.99	86.93	104.00
140	M7	19	DA	O3'-P-O5'	-8.99	86.93	104.00
187	R5	2	DA	O3'-P-O5'	-8.99	86.92	104.00
6	A6	7	DA	O3'-P-O5'	-8.98	86.93	104.00
11	AB	1214	DA	O3'-P-O5'	-8.98	86.93	104.00
11	AB	3972	DA	O3'-P-O5'	-8.98	86.93	104.00
11	AB	1203	DA	O3'-P-O5'	-8.98	86.93	104.00
11	AB	1291	DA	O3'-P-O5'	-8.98	86.93	104.00
18	B5	23	DA	O3'-P-O5'	-8.98	86.93	104.00
31	C7	1	DA	O3'-P-O5'	-8.98	86.93	104.00
59	F1	14	DA	O3'-P-O5'	-8.98	86.93	104.00
62	F5	1	DA	O3'-P-O5'	-8.98	86.93	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1423	DA	O3'-P-O5'	-8.98	86.93	104.00
11	AB	2946	DA	O3'-P-O5'	-8.98	86.93	104.00
11	AB	3734	DA	O3'-P-O5'	-8.98	86.93	104.00
11	AB	5357	DA	O3'-P-O5'	-8.98	86.93	104.00
11	AB	5358	DA	O3'-P-O5'	-8.98	86.93	104.00
11	AB	6442	DA	O3'-P-O5'	-8.98	86.93	104.00
22	B9	25	DA	O3'-P-O5'	-8.98	86.93	104.00
53	E7	18	DA	O3'-P-O5'	-8.98	86.93	104.00
83	H3	12	DA	O3'-P-O5'	-8.98	86.93	104.00
100	IA	13	DA	O3'-P-O5'	-8.98	86.93	104.00
115	K2	34	DA	O3'-P-O5'	-8.98	86.93	104.00
153	NA	11	DA	O3'-P-O5'	-8.98	86.93	104.00
158	O5	42	DA	O3'-P-O5'	-8.98	86.93	104.00
195	S3	17	DA	O3'-P-O5'	-8.98	86.93	104.00
205	T5	11	DA	O3'-P-O5'	-8.98	86.93	104.00
232	W7	8	DA	O3'-P-O5'	-8.98	86.93	104.00
11	AB	754	DA	O3'-P-O5'	-8.98	86.94	104.00
11	AB	987	DA	O3'-P-O5'	-8.98	86.94	104.00
11	AB	1900	DA	O3'-P-O5'	-8.98	86.94	104.00
11	AB	4046	DA	O3'-P-O5'	-8.98	86.94	104.00
11	AB	5195	DA	O3'-P-O5'	-8.98	86.94	104.00
71	G2	16	DA	O3'-P-O5'	-8.98	86.93	104.00
95	I5	27	DA	O3'-P-O5'	-8.98	86.94	104.00
11	AB	4554	DA	O3'-P-O5'	-8.98	86.94	104.00
107	J6	13	DA	O3'-P-O5'	-8.98	86.94	104.00
141	M8	5	DA	O3'-P-O5'	-8.98	86.94	104.00
148	N5	22	DA	O3'-P-O5'	-8.98	86.93	104.00
153	NA	19	DA	O3'-P-O5'	-8.98	86.93	104.00
161	O8	44	DA	O3'-P-O5'	-8.98	86.94	104.00
201	SC	13	DA	O3'-P-O5'	-8.98	86.93	104.00
162	O9	14	DA	O3'-P-O5'	-8.98	86.94	104.00
232	W7	7	DA	O3'-P-O5'	-8.98	86.94	104.00
11	AB	1056	DA	O3'-P-O5'	-8.98	86.94	104.00
11	AB	6048	DA	O3'-P-O5'	-8.98	86.94	104.00
11	AB	7106	DA	O3'-P-O5'	-8.98	86.94	104.00
32	C8	20	DA	O3'-P-O5'	-8.98	86.94	104.00
146	N2	9	DA	O3'-P-O5'	-8.98	86.94	104.00
190	R9	31	DA	O3'-P-O5'	-8.98	86.94	104.00
11	AB	2778	DA	O3'-P-O5'	-8.98	86.94	104.00
11	AB	3265	DA	O3'-P-O5'	-8.98	86.95	104.00
11	AB	7112	DA	O3'-P-O5'	-8.98	86.94	104.00
33	C9	10	DA	O3'-P-O5'	-8.98	86.94	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
69	FD	41	DA	O3'-P-O5'	-8.98	86.95	104.00
238	X9	51	DA	O3'-P-O5'	-8.98	86.95	104.00
11	AB	550	DA	O3'-P-O5'	-8.97	86.95	104.00
11	AB	6853	DA	O3'-P-O5'	-8.97	86.95	104.00
24	BC	25	DA	O3'-P-O5'	-8.97	86.95	104.00
92	I1	5	DA	O3'-P-O5'	-8.97	86.95	104.00
113	JD	6	DA	O3'-P-O5'	-8.97	86.95	104.00
11	AB	3591	DA	O3'-P-O5'	-8.97	86.95	104.00
11	AB	5336	DA	O3'-P-O5'	-8.97	86.95	104.00
124	KD	17	DA	O3'-P-O5'	-8.97	86.95	104.00
149	N6	27	DA	O3'-P-O5'	-8.97	86.95	104.00
156	O2	20	DA	O3'-P-O5'	-8.97	86.95	104.00
210	TC	19	DA	O3'-P-O5'	-8.97	86.95	104.00
173	PA	26	DA	O3'-P-O5'	-8.97	86.95	104.00
176	Q2	6	DA	O3'-P-O5'	-8.97	86.95	104.00
149	N6	43	DA	O3'-P-O5'	-8.97	86.95	104.00
11	AB	1034	DA	O3'-P-O5'	-8.97	86.96	104.00
11	AB	2789	DA	O3'-P-O5'	-8.97	86.95	104.00
165	OD	36	DA	O3'-P-O5'	-8.97	86.95	104.00
64	F7	9	DA	O3'-P-O5'	-8.97	86.96	104.00
172	P9	8	DA	O3'-P-O5'	-8.97	86.96	104.00
11	AB	5916	DA	O3'-P-O5'	-8.97	86.96	104.00
11	AB	1952	DT	O3'-P-O5'	-8.97	86.97	104.00
12	AC	15	DT	O3'-P-O5'	-8.96	86.97	104.00
76	G8	16	DT	O3'-P-O5'	-8.96	86.97	104.00
131	L8	20	DA	O3'-P-O5'	-8.96	86.97	104.00
11	AB	3030	DT	O3'-P-O5'	-8.96	86.98	104.00
11	AB	4940	DT	O3'-P-O5'	-8.96	86.98	104.00
11	AB	6424	DT	O3'-P-O5'	-8.96	86.97	104.00
95	I5	1	DA	O3'-P-O5'	-8.96	86.97	104.00
11	AB	1393	DT	O3'-P-O5'	-8.96	86.98	104.00
11	AB	1509	DT	O3'-P-O5'	-8.96	86.98	104.00
11	AB	2522	DT	P-O3'-C3'	-8.96	108.95	119.70
11	AB	3939	DT	O3'-P-O5'	-8.96	86.98	104.00
115	K2	12	DT	O3'-P-O5'	-8.96	86.98	104.00
11	AB	1569	DT	O3'-P-O5'	-8.96	86.98	104.00
11	AB	2703	DT	O3'-P-O5'	-8.96	86.98	104.00
11	AB	6301	DT	O3'-P-O5'	-8.96	86.98	104.00
23	BA	28	DT	O3'-P-O5'	-8.96	86.98	104.00
54	E8	32	DT	O3'-P-O5'	-8.96	86.98	104.00
147	N3	15	DT	O3'-P-O5'	-8.96	86.98	104.00
11	AB	214	DT	O3'-P-O5'	-8.96	86.98	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2623	DA	O3'-P-O5'	-8.96	86.98	104.00
42	D7	5	DT	O3'-P-O5'	-8.96	86.98	104.00
168	P5	12	DT	O3'-P-O5'	-8.96	86.98	104.00
11	AB	5290	DT	O3'-P-O5'	-8.95	86.99	104.00
105	J3	19	DT	O3'-P-O5'	-8.95	86.99	104.00
160	O7	50	DT	O3'-P-O5'	-8.96	86.99	104.00
168	P5	11	DT	O3'-P-O5'	-8.95	86.99	104.00
190	R9	36	DT	O3'-P-O5'	-8.95	86.99	104.00
198	S8	40	DT	O3'-P-O5'	-8.96	86.99	104.00
212	U2	22	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	610	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	1223	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	1385	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	2420	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	4222	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	6161	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	6667	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	6719	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	4676	DT	O3'-P-O5'	-8.95	86.99	104.00
148	N5	8	DT	O3'-P-O5'	-8.95	86.99	104.00
148	N5	9	DT	O3'-P-O5'	-8.95	86.99	104.00
173	PA	16	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	667	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	1512	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	4727	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	6541	DA	O3'-P-O5'	-8.95	87.00	104.00
11	AB	7094	DT	O3'-P-O5'	-8.95	87.00	104.00
20	B7	14	DT	O3'-P-O5'	-8.95	86.99	104.00
11	AB	3287	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	3439	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	3623	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	3761	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	5021	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	5607	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	6312	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	6584	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	6597	DT	O3'-P-O5'	-8.95	87.00	104.00
106	J5	9	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	6793	DT	O3'-P-O5'	-8.95	87.00	104.00
14	B1	11	DT	O3'-P-O5'	-8.95	87.00	104.00
115	K2	6	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	107	DA	O3'-P-O5'	-8.95	87.00	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	172	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	446	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	1816	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	2023	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	2844	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	3016	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	4244	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	4536	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	5580	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	5998	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	6094	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	6175	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	7048	DT	O3'-P-O5'	-8.95	87.00	104.00
18	B5	19	DT	O3'-P-O5'	-8.95	87.00	104.00
29	C5	1	DT	O3'-P-O5'	-8.95	87.00	104.00
51	E5	21	DT	O3'-P-O5'	-8.95	87.00	104.00
105	J3	17	DT	O3'-P-O5'	-8.95	87.00	104.00
131	L8	13	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	1235	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	1309	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	1371	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	1679	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	2089	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	2426	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	2815	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	3504	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	6574	DT	O3'-P-O5'	-8.95	87.00	104.00
105	J3	18	DT	O3'-P-O5'	-8.95	87.00	104.00
149	N6	5	DT	O3'-P-O5'	-8.95	87.00	104.00
190	R9	20	DT	O3'-P-O5'	-8.95	87.00	104.00
11	AB	3851	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	6010	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	6184	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	7043	DT	O3'-P-O5'	-8.94	87.01	104.00
53	E7	5	DT	O3'-P-O5'	-8.94	87.01	104.00
154	NC	19	DT	O3'-P-O5'	-8.95	87.00	104.00
190	R9	6	DT	O3'-P-O5'	-8.94	87.01	104.00
222	V3	19	DT	O3'-P-O5'	-8.95	87.00	104.00
7	A7	19	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	577	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	595	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	4994	DT	O3'-P-O5'	-8.94	87.01	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	L5	8	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	177	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	181	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	653	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	1121	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	1384	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	2814	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	3435	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	6802	DT	O3'-P-O5'	-8.94	87.01	104.00
130	L7	50	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	5386	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	5443	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	5597	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	5791	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	6578	DT	O3'-P-O5'	-8.94	87.01	104.00
67	FA	23	DT	O3'-P-O5'	-8.94	87.01	104.00
231	W5	30	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	6956	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	7096	DT	O3'-P-O5'	-8.94	87.01	104.00
23	BA	25	DT	O3'-P-O5'	-8.94	87.01	104.00
32	C8	11	DT	O3'-P-O5'	-8.94	87.01	104.00
40	D5	15	DT	O3'-P-O5'	-8.94	87.01	104.00
133	LA	9	DT	O3'-P-O5'	-8.94	87.01	104.00
177	Q3	10	DT	O3'-P-O5'	-8.94	87.01	104.00
190	R9	19	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	1159	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	2098	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	2198	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	4856	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	974	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	1066	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	1930	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	1991	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	2441	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3138	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3147	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3192	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3354	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	5729	DT	O3'-P-O5'	-8.94	87.01	104.00
11	AB	6002	DT	O3'-P-O5'	-8.94	87.01	104.00
128	L5	7	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	4269	DT	O3'-P-O5'	-8.94	87.02	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4273	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	4426	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	4617	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	5222	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	5229	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	5385	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	5457	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	6264	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	6483	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	6718	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	7075	DT	O3'-P-O5'	-8.94	87.02	104.00
12	AC	13	DT	O3'-P-O5'	-8.94	87.02	104.00
18	B5	35	DT	O3'-P-O5'	-8.94	87.02	104.00
26	C1	12	DT	O3'-P-O5'	-8.94	87.02	104.00
53	E7	2	DT	O3'-P-O5'	-8.94	87.02	104.00
62	F5	21	DT	O3'-P-O5'	-8.94	87.02	104.00
78	GA	10	DT	O3'-P-O5'	-8.94	87.02	104.00
103	J1	11	DT	O3'-P-O5'	-8.94	87.02	104.00
126	L2	31	DT	O3'-P-O5'	-8.94	87.01	104.00
175	PD	14	DT	O3'-P-O5'	-8.94	87.02	104.00
177	Q3	12	DT	O3'-P-O5'	-8.94	87.02	104.00
186	R3	16	DT	O3'-P-O5'	-8.94	87.02	104.00
191	RA	17	DT	O3'-P-O5'	-8.94	87.02	104.00
214	U5	39	DT	O3'-P-O5'	-8.94	87.02	104.00
215	U7	15	DT	O3'-P-O5'	-8.94	87.02	104.00
216	U8	9	DT	O3'-P-O5'	-8.94	87.02	104.00
5	A5	20	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	2848	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3349	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	5163	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	184	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	194	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	225	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	695	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3009	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	4125	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	6582	DT	O3'-P-O5'	-8.94	87.02	104.00
231	W5	11	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	740	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	1717	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	2020	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	2342	DT	O3'-P-O5'	-8.94	87.02	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2406	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	2423	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	2519	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	2810	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3000	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3001	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3194	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3433	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3614	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	4768	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	7095	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	3905	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	4348	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	5209	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	5449	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	5581	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	5982	DT	O3'-P-O5'	-8.94	87.02	104.00
11	AB	6871	DT	O3'-P-O5'	-8.94	87.02	104.00
177	Q3	11	DT	O3'-P-O5'	-8.94	87.02	104.00
13	AD	41	DT	O3'-P-O5'	-8.94	87.02	104.00
24	BC	32	DT	O3'-P-O5'	-8.94	87.02	104.00
35	CC	13	DT	O3'-P-O5'	-8.94	87.02	104.00
67	FA	10	DT	O3'-P-O5'	-8.94	87.02	104.00
78	GA	9	DT	O3'-P-O5'	-8.94	87.02	104.00
98	I8	42	DT	O3'-P-O5'	-8.94	87.02	104.00
191	RA	28	DT	O3'-P-O5'	-8.94	87.02	104.00
111	JA	1	DT	O3'-P-O5'	-8.94	87.02	104.00
119	K7	41	DT	O3'-P-O5'	-8.94	87.02	104.00
122	KA	29	DT	O3'-P-O5'	-8.94	87.02	104.00
124	KD	8	DT	O3'-P-O5'	-8.94	87.02	104.00
125	L1	46	DT	O3'-P-O5'	-8.94	87.02	104.00
221	V2	22	DT	O3'-P-O5'	-8.94	87.02	104.00
188	R7	11	DT	O3'-P-O5'	-8.94	87.02	104.00
204	T3	33	DT	O3'-P-O5'	-8.94	87.02	104.00
231	W5	9	DT	O3'-P-O5'	-8.94	87.02	104.00
5	A5	1	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	224	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	253	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	645	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2197	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2800	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2824	DT	O3'-P-O5'	-8.93	87.03	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4769	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	7183	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	7184	DT	O3'-P-O5'	-8.93	87.03	104.00
22	B9	2	DT	O3'-P-O5'	-8.93	87.03	104.00
121	K9	18	DT	O3'-P-O5'	-8.93	87.03	104.00
166	P2	14	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	698	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	965	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	1329	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	1372	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	1678	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2690	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2819	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2849	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3308	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3311	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	6343	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2861	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2978	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3182	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3617	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3906	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3759	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	4327	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	4424	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	4613	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5022	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5384	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5394	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5466	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	6508	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	7220	DT	O3'-P-O5'	-8.93	87.03	104.00
138	M5	38	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5779	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5780	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	6884	DT	O3'-P-O5'	-8.93	87.03	104.00
114	K1	13	DT	O3'-P-O5'	-8.93	87.03	104.00
168	P5	16	DT	O3'-P-O5'	-8.93	87.03	104.00
190	R9	37	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	6233	DA	O3'-P-O5'	-8.93	87.03	104.00
11	AB	6583	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	6863	DT	O3'-P-O5'	-8.93	87.03	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6945	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	7062	DT	O3'-P-O5'	-8.93	87.03	104.00
31	C7	7	DT	O3'-P-O5'	-8.93	87.03	104.00
31	C7	11	DT	O3'-P-O5'	-8.93	87.03	104.00
36	CD	16	DT	O3'-P-O5'	-8.93	87.03	104.00
49	E2	11	DT	O3'-P-O5'	-8.93	87.03	104.00
82	H2	16	DT	O3'-P-O5'	-8.93	87.03	104.00
119	K7	24	DT	O3'-P-O5'	-8.93	87.03	104.00
135	LD	9	DT	O3'-P-O5'	-8.93	87.03	104.00
144	MC	16	DT	O3'-P-O5'	-8.93	87.03	104.00
144	MC	20	DT	O3'-P-O5'	-8.93	87.03	104.00
167	P3	6	DT	O3'-P-O5'	-8.93	87.03	104.00
185	R2	1	DT	O3'-P-O5'	-8.93	87.03	104.00
190	R9	5	DT	O3'-P-O5'	-8.93	87.03	104.00
192	RC	30	DT	O3'-P-O5'	-8.93	87.03	104.00
203	T2	7	DT	O3'-P-O5'	-8.93	87.03	104.00
211	TD	25	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	624	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	1158	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	1224	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	1557	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	1969	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	4229	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	1236	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	1546	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2438	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2682	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	1241	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	1252	DA	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2430	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3015	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3157	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3280	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3304	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3571	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	4349	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5307	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	1575	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	1843	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2086	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2181	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2347	DT	O3'-P-O5'	-8.93	87.04	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2419	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3005	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	2830	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	3032	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3503	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3758	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	4939	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5697	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5997	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	6009	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	6258	DT	O3'-P-O5'	-8.93	87.03	104.00
13	AD	40	DT	O3'-P-O5'	-8.93	87.03	104.00
16	B3	8	DT	O3'-P-O5'	-8.93	87.03	104.00
115	K2	13	DT	O3'-P-O5'	-8.93	87.03	104.00
119	K7	37	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	3708	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	4243	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	4414	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	6957	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	7034	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	7047	DT	O3'-P-O5'	-8.93	87.03	104.00
52	E6	1	DT	O3'-P-O5'	-8.93	87.03	104.00
237	X7	3	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5076	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	5286	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	5370	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	5462	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	5796	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6183	DT	O3'-P-O5'	-8.93	87.03	104.00
22	B9	18	DT	O3'-P-O5'	-8.93	87.03	104.00
87	H8	16	DT	O3'-P-O5'	-8.93	87.03	104.00
132	L9	18	DT	O3'-P-O5'	-8.93	87.03	104.00
200	SA	23	DT	O3'-P-O5'	-8.93	87.03	104.00
221	V2	17	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	6418	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6657	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6946	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	7033	DT	O3'-P-O5'	-8.93	87.04	104.00
12	AC	12	DT	O3'-P-O5'	-8.93	87.04	104.00
13	AD	39	DT	O3'-P-O5'	-8.93	87.03	104.00
36	CD	17	DT	O3'-P-O5'	-8.93	87.03	104.00
112	JC	21	DT	O3'-P-O5'	-8.93	87.03	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
112	JC	22	DT	O3'-P-O5'	-8.93	87.03	104.00
30	C6	27	DT	O3'-P-O5'	-8.93	87.04	104.00
58	ED	27	DT	O3'-P-O5'	-8.93	87.04	104.00
102	ID	9	DT	O3'-P-O5'	-8.93	87.04	104.00
114	K1	40	DT	O3'-P-O5'	-8.93	87.03	104.00
117	K5	15	DT	O3'-P-O5'	-8.93	87.03	104.00
117	K5	37	DT	O3'-P-O5'	-8.93	87.04	104.00
118	K6	7	DT	O3'-P-O5'	-8.93	87.04	104.00
135	LD	8	DT	O3'-P-O5'	-8.93	87.04	104.00
144	MC	15	DT	O3'-P-O5'	-8.93	87.04	104.00
145	MD	34	DT	O3'-P-O5'	-8.93	87.03	104.00
149	N6	4	DT	O3'-P-O5'	-8.93	87.04	104.00
162	O9	9	DT	O3'-P-O5'	-8.93	87.04	104.00
198	S8	9	DT	O3'-P-O5'	-8.93	87.04	104.00
198	S8	25	DT	O3'-P-O5'	-8.93	87.03	104.00
212	U2	21	DT	O3'-P-O5'	-8.93	87.04	104.00
236	X5	23	DT	O3'-P-O5'	-8.93	87.03	104.00
11	AB	602	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	1211	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	1508	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	1550	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	5147	DA	O3'-P-O5'	-8.93	87.04	104.00
11	AB	5306	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6323	DT	O3'-P-O5'	-8.93	87.04	104.00
18	B5	20	DT	O3'-P-O5'	-8.93	87.04	104.00
157	O3	23	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	1563	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	1718	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2115	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2194	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2348	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2429	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2431	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2508	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	3510	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2570	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2816	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	2831	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	3031	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	3563	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	3716	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	3767	DT	O3'-P-O5'	-8.93	87.04	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3907	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	5367	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	5377	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	5437	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	5609	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	5778	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6132	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6174	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6425	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6600	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6638	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6895	DT	O3'-P-O5'	-8.93	87.04	104.00
60	F2	30	DT	O3'-P-O5'	-8.93	87.04	104.00
66	F9	17	DT	O3'-P-O5'	-8.93	87.04	104.00
86	H7	17	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	6260	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	7060	DT	O3'-P-O5'	-8.93	87.04	104.00
11	AB	7087	DT	O3'-P-O5'	-8.93	87.04	104.00
49	E2	25	DT	O3'-P-O5'	-8.93	87.04	104.00
53	E7	9	DT	O3'-P-O5'	-8.93	87.04	104.00
62	F5	8	DT	O3'-P-O5'	-8.93	87.04	104.00
77	G9	14	DT	O3'-P-O5'	-8.93	87.04	104.00
86	H7	9	DT	O3'-P-O5'	-8.93	87.04	104.00
86	H7	16	DT	O3'-P-O5'	-8.93	87.04	104.00
108	J7	17	DT	O3'-P-O5'	-8.93	87.04	104.00
125	L1	30	DT	O3'-P-O5'	-8.93	87.04	104.00
130	L7	13	DT	O3'-P-O5'	-8.93	87.04	104.00
193	RD	10	DT	O3'-P-O5'	-8.93	87.04	104.00
230	W3	25	DT	O3'-P-O5'	-8.93	87.04	104.00
144	MC	21	DT	O3'-P-O5'	-8.93	87.04	104.00
145	MD	10	DT	O3'-P-O5'	-8.93	87.04	104.00
178	Q5	31	DT	O3'-P-O5'	-8.93	87.04	104.00
181	Q9	29	DT	O3'-P-O5'	-8.93	87.04	104.00
191	RA	18	DT	O3'-P-O5'	-8.93	87.04	104.00
204	T3	32	DT	O3'-P-O5'	-8.93	87.04	104.00
7	A7	28	DT	O3'-P-O5'	-8.92	87.04	104.00
11	AB	431	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	603	DT	O3'-P-O5'	-8.92	87.04	104.00
11	AB	688	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1070	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1383	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1507	DT	O3'-P-O5'	-8.92	87.05	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1680	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1689	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	2681	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	2967	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	4054	DA	O3'-P-O5'	-8.92	87.04	104.00
11	AB	1719	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	2363	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	2493	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	3353	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	3483	DT	O3'-P-O5'	-8.92	87.04	104.00
99	I9	8	DT	O3'-P-O5'	-8.92	87.05	104.00
133	LA	20	DT	O3'-P-O5'	-8.92	87.04	104.00
138	M5	39	DT	O3'-P-O5'	-8.92	87.05	104.00
174	PC	21	DT	O3'-P-O5'	-8.92	87.05	104.00
181	Q9	28	DT	O3'-P-O5'	-8.92	87.04	104.00
11	AB	2835	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	3164	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	3505	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	3848	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	4223	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	4434	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	4686	DT	O3'-P-O5'	-8.92	87.04	104.00
11	AB	5383	DT	O3'-P-O5'	-8.92	87.04	104.00
11	AB	4720	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	5393	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	6259	DT	O3'-P-O5'	-8.92	87.04	104.00
11	AB	6398	DT	O3'-P-O5'	-8.92	87.05	104.00
105	J3	7	DT	O3'-P-O5'	-8.92	87.04	104.00
112	JC	17	DT	O3'-P-O5'	-8.92	87.05	104.00
129	L6	19	DT	O3'-P-O5'	-8.92	87.05	104.00
147	N3	14	DT	O3'-P-O5'	-8.92	87.04	104.00
188	R7	26	DT	O3'-P-O5'	-8.92	87.05	104.00
214	U5	23	DT	O3'-P-O5'	-8.92	87.04	104.00
11	AB	5639	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	5713	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	5915	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	6419	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	6495	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	6639	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	6879	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	6889	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	7067	DT	O3'-P-O5'	-8.92	87.05	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	B7	15	DT	O3'-P-O5'	-8.92	87.05	104.00
54	E8	31	DT	O3'-P-O5'	-8.92	87.05	104.00
83	H3	3	DT	O3'-P-O5'	-8.92	87.05	104.00
121	K9	17	DT	O3'-P-O5'	-8.92	87.05	104.00
87	H8	6	DT	O3'-P-O5'	-8.92	87.05	104.00
105	J3	12	DT	O3'-P-O5'	-8.92	87.05	104.00
133	LA	4	DT	O3'-P-O5'	-8.92	87.05	104.00
138	M5	9	DT	O3'-P-O5'	-8.92	87.05	104.00
149	N6	9	DT	O3'-P-O5'	-8.92	87.05	104.00
200	SA	17	DT	O3'-P-O5'	-8.92	87.05	104.00
214	U5	24	DT	O3'-P-O5'	-8.92	87.05	104.00
214	U5	40	DT	O3'-P-O5'	-8.92	87.05	104.00
231	W5	28	DT	O3'-P-O5'	-8.92	87.05	104.00
231	W5	29	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1523	DT	O3'-P-O5'	-8.92	87.05	104.00
1	A1	56	DT	O3'-P-O5'	-8.92	87.06	104.00
8	A8	25	DT	O3'-P-O5'	-8.92	87.05	104.00
8	A8	26	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1205	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1686	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1965	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	6426	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	6489	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	362	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	1392	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	2820	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	5808	DT	O3'-P-O5'	-8.92	87.05	104.00
77	G9	15	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1539	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1711	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	1712	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	1831	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	2405	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	3305	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	4150	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	4326	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	5089	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	6790	DT	O3'-P-O5'	-8.92	87.05	104.00
108	J7	18	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	3715	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	4804	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	6864	DT	O3'-P-O5'	-8.92	87.05	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7035	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	7056	DT	O3'-P-O5'	-8.92	87.05	104.00
58	ED	26	DT	O3'-P-O5'	-8.92	87.05	104.00
123	KC	13	DT	O3'-P-O5'	-8.92	87.05	104.00
124	KD	9	DT	O3'-P-O5'	-8.92	87.05	104.00
133	LA	8	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	7061	DT	O3'-P-O5'	-8.92	87.05	104.00
26	C1	15	DT	O3'-P-O5'	-8.92	87.05	104.00
60	F2	31	DT	O3'-P-O5'	-8.92	87.05	104.00
89	HA	6	DT	O3'-P-O5'	-8.92	87.05	104.00
89	HA	16	DT	O3'-P-O5'	-8.92	87.05	104.00
163	OA	15	DT	O3'-P-O5'	-8.92	87.05	104.00
89	HA	17	DT	O3'-P-O5'	-8.92	87.05	104.00
106	J5	10	DT	O3'-P-O5'	-8.92	87.05	104.00
112	JC	19	DT	O3'-P-O5'	-8.92	87.05	104.00
119	K7	19	DT	O3'-P-O5'	-8.92	87.06	104.00
130	L7	11	DT	O3'-P-O5'	-8.92	87.06	104.00
138	M5	24	DT	O3'-P-O5'	-8.92	87.05	104.00
166	P2	7	DT	O3'-P-O5'	-8.92	87.05	104.00
220	UD	11	DT	O3'-P-O5'	-8.92	87.05	104.00
227	VA	9	DT	O3'-P-O5'	-8.92	87.05	104.00
11	AB	248	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	252	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	560	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	1496	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	1716	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	2201	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	2439	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	1528	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	2093	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	3008	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	3161	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	3329	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	3341	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	3948	DT	O3'-P-O5'	-8.92	87.06	104.00
231	W5	10	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	3434	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	3467	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	3995	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	4101	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	4285	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	4235	DT	O3'-P-O5'	-8.92	87.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4798	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	4873	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	5318	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	5537	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	5608	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	5622	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	6191	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	6423	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	6500	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	6566	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	6569	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	6585	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	6740	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	7046	DT	O3'-P-O5'	-8.92	87.06	104.00
24	BC	35	DT	O3'-P-O5'	-8.92	87.06	104.00
62	F5	30	DT	O3'-P-O5'	-8.92	87.06	104.00
112	JC	20	DT	O3'-P-O5'	-8.92	87.06	104.00
154	NC	18	DT	O3'-P-O5'	-8.92	87.06	104.00
53	E7	3	DT	O3'-P-O5'	-8.92	87.06	104.00
55	E9	5	DT	O3'-P-O5'	-8.92	87.06	104.00
80	GD	7	DT	O3'-P-O5'	-8.92	87.06	104.00
80	GD	8	DT	O3'-P-O5'	-8.92	87.06	104.00
108	J7	43	DT	O3'-P-O5'	-8.92	87.06	104.00
111	JA	2	DT	O3'-P-O5'	-8.92	87.06	104.00
115	K2	7	DT	O3'-P-O5'	-8.92	87.06	104.00
159	O6	1	DT	O3'-P-O5'	-8.92	87.06	104.00
171	P8	9	DT	O3'-P-O5'	-8.92	87.06	104.00
172	P9	23	DT	O3'-P-O5'	-8.92	87.06	104.00
191	RA	19	DT	O3'-P-O5'	-8.92	87.06	104.00
198	S8	10	DT	O3'-P-O5'	-8.92	87.06	104.00
203	T2	6	DT	O3'-P-O5'	-8.92	87.06	104.00
203	T2	8	DT	O3'-P-O5'	-8.92	87.06	104.00
220	UD	2	DT	O3'-P-O5'	-8.92	87.06	104.00
227	VA	25	DT	O3'-P-O5'	-8.92	87.06	104.00
11	AB	188	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	572	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	609	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	975	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	1120	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	1157	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	1487	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	1566	DT	O3'-P-O5'	-8.91	87.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2134	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	2707	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	3828	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	4265	DA	O3'-P-O5'	-8.91	87.06	104.00
11	AB	4721	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	5809	DT	O3'-P-O5'	-8.91	87.06	104.00
39	D3	23	DT	O3'-P-O5'	-8.91	87.06	104.00
70	G1	1	DT	O3'-P-O5'	-8.91	87.06	104.00
119	K7	42	DT	O3'-P-O5'	-8.91	87.06	104.00
183	QC	26	DT	O3'-P-O5'	-8.91	87.06	104.00
216	U8	22	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	176	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	189	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	221	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	376	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	689	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	599	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	976	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	1302	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	1553	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1725	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	2097	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	2735	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	3410	DT	O3'-P-O5'	-8.91	87.06	104.00
67	FA	24	DT	O3'-P-O5'	-8.91	87.06	104.00
74	G6	15	DT	O3'-P-O5'	-8.91	87.06	104.00
81	H1	8	DT	O3'-P-O5'	-8.91	87.06	104.00
149	N6	22	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	1554	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1933	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	2596	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	2680	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	2801	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	2834	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	3004	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	3612	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	4605	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	4797	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	6128	DT	O3'-P-O5'	-8.91	87.06	104.00
32	C8	13	DT	O3'-P-O5'	-8.91	87.06	104.00
105	J3	6	DT	O3'-P-O5'	-8.91	87.06	104.00
113	JD	22	DT	O3'-P-O5'	-8.91	87.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
159	O6	3	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	4236	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	5164	DT	O3'-P-O5'	-8.91	87.07	104.00
118	K6	6	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	5465	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	5787	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	6033	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	6237	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	6257	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	6427	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	6487	DT	O3'-P-O5'	-8.91	87.06	104.00
21	B8	23	DT	O3'-P-O5'	-8.91	87.07	104.00
62	F5	9	DT	O3'-P-O5'	-8.91	87.06	104.00
32	C8	12	DT	O3'-P-O5'	-8.91	87.07	104.00
55	E9	6	DT	O3'-P-O5'	-8.91	87.07	104.00
55	E9	9	DT	O3'-P-O5'	-8.91	87.06	104.00
55	E9	32	DT	O3'-P-O5'	-8.91	87.07	104.00
68	FC	9	DT	O3'-P-O5'	-8.91	87.07	104.00
119	K7	6	DT	O3'-P-O5'	-8.91	87.06	104.00
77	G9	6	DT	O3'-P-O5'	-8.91	87.07	104.00
121	K9	16	DT	O3'-P-O5'	-8.91	87.07	104.00
123	KC	14	DT	O3'-P-O5'	-8.91	87.06	104.00
125	L1	38	DT	O3'-P-O5'	-8.91	87.07	104.00
125	L1	43	DT	O3'-P-O5'	-8.91	87.06	104.00
142	M9	13	DT	O3'-P-O5'	-8.91	87.06	104.00
144	MC	22	DT	O3'-P-O5'	-8.91	87.06	104.00
144	MC	14	DT	O3'-P-O5'	-8.91	87.07	104.00
145	MD	47	DT	O3'-P-O5'	-8.91	87.06	104.00
157	O3	20	DT	O3'-P-O5'	-8.91	87.06	104.00
159	O6	2	DT	O3'-P-O5'	-8.91	87.07	104.00
160	O7	51	DT	O3'-P-O5'	-8.91	87.06	104.00
166	P2	15	DT	O3'-P-O5'	-8.91	87.07	104.00
192	RC	29	DT	O3'-P-O5'	-8.91	87.07	104.00
192	RC	31	DT	O3'-P-O5'	-8.91	87.07	104.00
198	S8	11	DT	O3'-P-O5'	-8.91	87.06	104.00
214	U5	41	DT	O3'-P-O5'	-8.91	87.07	104.00
217	U9	26	DT	O3'-P-O5'	-8.91	87.07	104.00
230	W3	11	DT	O3'-P-O5'	-8.91	87.06	104.00
11	AB	363	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	388	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1097	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1822	DT	O3'-P-O5'	-8.91	87.07	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2368	DA	O3'-P-O5'	-8.91	87.07	104.00
11	AB	5523	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	165	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	178	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	382	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1233	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1345	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1710	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1964	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	2411	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	2503	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	2505	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	2624	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	2676	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	2693	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	2821	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	2957	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	3312	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	3330	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	6417	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	4404	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	4874	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	5210	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	5244	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	5538	DT	O3'-P-O5'	-8.91	87.07	104.00
117	K5	30	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	5284	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	5819	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	6599	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	6990	DT	O3'-P-O5'	-8.91	87.07	104.00
12	AC	14	DT	O3'-P-O5'	-8.91	87.07	104.00
39	D3	22	DT	O3'-P-O5'	-8.91	87.07	104.00
41	D6	37	DT	O3'-P-O5'	-8.91	87.07	104.00
79	GC	19	DT	O3'-P-O5'	-8.91	87.07	104.00
84	H5	27	DT	O3'-P-O5'	-8.91	87.07	104.00
89	HA	15	DT	O3'-P-O5'	-8.91	87.07	104.00
92	I1	20	DT	O3'-P-O5'	-8.91	87.07	104.00
117	K5	34	DT	O3'-P-O5'	-8.91	87.07	104.00
120	K8	19	DT	O3'-P-O5'	-8.91	87.07	104.00
138	M5	20	DT	O3'-P-O5'	-8.91	87.07	104.00
182	QA	25	DT	O3'-P-O5'	-8.91	87.07	104.00
209	TA	19	DT	O3'-P-O5'	-8.91	87.07	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
137	M3	27	DT	O3'-P-O5'	-8.91	87.07	104.00
138	M5	11	DT	O3'-P-O5'	-8.91	87.07	104.00
141	M8	11	DT	O3'-P-O5'	-8.91	87.07	104.00
147	N3	27	DT	O3'-P-O5'	-8.91	87.07	104.00
154	NC	16	DT	O3'-P-O5'	-8.91	87.07	104.00
180	Q8	27	DT	O3'-P-O5'	-8.91	87.07	104.00
189	R8	33	DT	O3'-P-O5'	-8.91	87.07	104.00
190	R9	34	DT	O3'-P-O5'	-8.91	87.07	104.00
214	U5	19	DT	O3'-P-O5'	-8.91	87.07	104.00
208	T9	6	DT	O3'-P-O5'	-8.91	87.07	104.00
215	U7	16	DT	O3'-P-O5'	-8.91	87.07	104.00
218	UA	3	DT	O3'-P-O5'	-8.91	87.07	104.00
219	UC	9	DT	O3'-P-O5'	-8.91	87.07	104.00
221	V2	16	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	668	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1129	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	1303	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	1304	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	1313	DT	O3'-P-O5'	-8.91	87.08	104.00
217	U9	14	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1402	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	1409	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	1545	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	1681	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	1795	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	2174	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	6078	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	6808	DT	O3'-P-O5'	-8.91	87.08	104.00
13	AD	5	DT	O3'-P-O5'	-8.91	87.08	104.00
25	BD	18	DT	O3'-P-O5'	-8.91	87.07	104.00
104	J2	19	DT	O3'-P-O5'	-8.91	87.08	104.00
219	UC	21	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	2507	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	2585	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	2670	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	2786	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	2797	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	2979	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	2993	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	3127	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	3200	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	3285	DT	O3'-P-O5'	-8.91	87.08	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3331	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	3994	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	6593	DT	O3'-P-O5'	-8.91	87.08	104.00
41	D6	40	DT	O3'-P-O5'	-8.91	87.08	104.00
125	L1	17	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	3522	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	3526	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	3550	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	3908	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	4350	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	4762	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	4923	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	5030	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	5395	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	5690	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	5731	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	5790	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	6302	DT	O3'-P-O5'	-8.91	87.08	104.00
86	H7	8	DT	O3'-P-O5'	-8.91	87.07	104.00
11	AB	6488	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	6603	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	6654	DT	O3'-P-O5'	-8.91	87.08	104.00
11	AB	6958	DT	O3'-P-O5'	-8.91	87.08	104.00
49	E2	26	DT	O3'-P-O5'	-8.91	87.08	104.00
88	H9	7	DT	O3'-P-O5'	-8.91	87.08	104.00
136	M2	2	DT	O3'-P-O5'	-8.91	87.08	104.00
170	P7	8	DT	O3'-P-O5'	-8.91	87.08	104.00
178	Q5	32	DT	O3'-P-O5'	-8.91	87.08	104.00
183	QC	15	DT	O3'-P-O5'	-8.91	87.08	104.00
196	S5	5	DT	O3'-P-O5'	-8.91	87.08	104.00
206	T7	26	DT	O3'-P-O5'	-8.91	87.08	104.00
215	U7	9	DT	O3'-P-O5'	-8.91	87.07	104.00
208	T9	12	DT	O3'-P-O5'	-8.91	87.08	104.00
211	TD	26	DT	O3'-P-O5'	-8.91	87.08	104.00
220	UD	3	DT	O3'-P-O5'	-8.91	87.08	104.00
222	V3	8	DT	O3'-P-O5'	-8.91	87.08	104.00
225	V8	8	DT	O3'-P-O5'	-8.91	87.07	104.00
230	W3	26	DT	O3'-P-O5'	-8.91	87.08	104.00
5	A5	26	DT	O3'-P-O5'	-8.90	87.08	104.00
7	A7	29	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	281	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	331	DT	O3'-P-O5'	-8.90	87.08	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	632	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	652	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	732	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	1307	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	1350	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	1973	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	2016	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	7088	DT	O3'-P-O5'	-8.90	87.08	104.00
57	EC	17	DT	O3'-P-O5'	-8.90	87.08	104.00
144	MC	17	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	1635	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	1687	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	1726	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	1846	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	1957	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	2006	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	5999	DT	O3'-P-O5'	-8.90	87.08	104.00
49	E2	22	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	2335	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	2518	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	3006	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	3672	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	3760	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	3788	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	4274	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	4677	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	5317	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	5598	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	5812	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	5931	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	6095	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	6396	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	6415	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	7222	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	6994	DT	O3'-P-O5'	-8.90	87.08	104.00
31	C7	28	DT	O3'-P-O5'	-8.90	87.08	104.00
40	D5	12	DT	O3'-P-O5'	-8.90	87.08	104.00
43	D8	44	DT	O3'-P-O5'	-8.90	87.08	104.00
54	E8	19	DT	O3'-P-O5'	-8.90	87.08	104.00
58	ED	41	DT	O3'-P-O5'	-8.90	87.08	104.00
67	FA	8	DT	O3'-P-O5'	-8.90	87.08	104.00
68	FC	15	DT	O3'-P-O5'	-8.90	87.08	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
98	I8	27	DT	O3'-P-O5'	-8.90	87.08	104.00
126	L2	32	DT	O3'-P-O5'	-8.90	87.08	104.00
143	MA	5	DT	O3'-P-O5'	-8.90	87.08	104.00
146	N2	11	DT	O3'-P-O5'	-8.90	87.08	104.00
155	ND	17	DT	O3'-P-O5'	-8.90	87.08	104.00
171	P8	8	DT	O3'-P-O5'	-8.90	87.08	104.00
178	Q5	33	DT	O3'-P-O5'	-8.90	87.08	104.00
181	Q9	30	DT	O3'-P-O5'	-8.90	87.08	104.00
190	R9	21	DT	O3'-P-O5'	-8.90	87.08	104.00
203	T2	18	DT	O3'-P-O5'	-8.90	87.08	104.00
222	V3	6	DT	O3'-P-O5'	-8.90	87.08	104.00
236	X5	15	DT	O3'-P-O5'	-8.90	87.08	104.00
237	X7	4	DT	O3'-P-O5'	-8.90	87.08	104.00
7	A7	38	DT	O3'-P-O5'	-8.90	87.09	104.00
9	A9	15	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	132	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	134	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	226	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1381	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2087	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2243	DT	O3'-P-O5'	-8.90	87.09	104.00
154	NC	13	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	530	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	794	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1013	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1220	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1471	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1817	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2517	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2597	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3480	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3928	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	4433	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	5438	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	5519	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	5730	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6011	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	7115	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2721	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2963	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3156	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3160	DT	O3'-P-O5'	-8.90	87.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3183	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3222	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3336	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3397	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3747	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3800	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	4137	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	4291	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	5156	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	5224	DT	O3'-P-O5'	-8.90	87.08	104.00
11	AB	5444	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	5671	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	5752	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	5803	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6232	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6480	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6587	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6598	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	7055	DT	O3'-P-O5'	-8.90	87.08	104.00
14	B1	12	DT	O3'-P-O5'	-8.90	87.09	104.00
158	O5	16	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6737	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6983	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	7092	DT	O3'-P-O5'	-8.90	87.09	104.00
18	B5	18	DT	O3'-P-O5'	-8.90	87.09	104.00
25	BD	12	DT	O3'-P-O5'	-8.90	87.09	104.00
35	CC	5	DT	O3'-P-O5'	-8.90	87.09	104.00
49	E2	15	DT	O3'-P-O5'	-8.90	87.09	104.00
62	F5	45	DT	O3'-P-O5'	-8.90	87.09	104.00
68	FC	12	DT	O3'-P-O5'	-8.90	87.09	104.00
95	I5	25	DT	O3'-P-O5'	-8.90	87.09	104.00
238	X9	46	DT	O3'-P-O5'	-8.90	87.09	104.00
154	NC	36	DT	O3'-P-O5'	-8.90	87.09	104.00
165	OD	47	DT	O3'-P-O5'	-8.90	87.09	104.00
168	P5	13	DT	O3'-P-O5'	-8.90	87.09	104.00
183	QC	24	DT	O3'-P-O5'	-8.90	87.09	104.00
185	R2	22	DT	O3'-P-O5'	-8.90	87.09	104.00
206	T7	46	DT	O3'-P-O5'	-8.90	87.09	104.00
207	T8	24	DT	O3'-P-O5'	-8.90	87.09	104.00
222	V3	2	DT	O3'-P-O5'	-8.90	87.09	104.00
230	W3	24	DT	O3'-P-O5'	-8.90	87.09	104.00
2	A2	15	DT	O3'-P-O5'	-8.90	87.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A4	29	DT	O3'-P-O5'	-8.90	87.09	104.00
5	A5	4	DT	O3'-P-O5'	-8.90	87.09	104.00
5	A5	13	DT	O3'-P-O5'	-8.90	87.09	104.00
8	A8	13	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	771	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1504	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1513	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2111	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2494	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2548	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	4722	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	7104	DT	O3'-P-O5'	-8.90	87.09	104.00
36	CD	20	DT	O3'-P-O5'	-8.90	87.09	104.00
51	E5	14	DT	O3'-P-O5'	-8.90	87.09	104.00
146	N2	18	DT	O3'-P-O5'	-8.90	87.09	104.00
173	PA	23	DT	O3'-P-O5'	-8.90	87.09	104.00
210	TC	13	DT	O3'-P-O5'	-8.90	87.09	104.00
230	W3	22	DT	O3'-P-O5'	-8.90	87.09	104.00
1	A1	54	DT	O3'-P-O5'	-8.90	87.10	104.00
4	A4	26	DT	O3'-P-O5'	-8.90	87.10	104.00
4	A4	28	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	135	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	163	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	368	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	506	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	799	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1148	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1388	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	947	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	1139	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	1237	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1608	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1619	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1632	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1747	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1776	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2474	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3704	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3744	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6496	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6828	DT	O3'-P-O5'	-8.90	87.09	104.00
108	J7	24	DT	O3'-P-O5'	-8.90	87.09	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
114	K1	37	DT	O3'-P-O5'	-8.90	87.09	104.00
223	V5	35	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1543	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	1576	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	1682	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	1774	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	1779	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	1934	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2047	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2199	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2357	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	2498	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2641	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2847	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	2934	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	3401	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	3440	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3588	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	3849	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3885	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	3886	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3930	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	4318	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	4698	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	4751	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	4957	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6558	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6575	DT	O3'-P-O5'	-8.90	87.09	104.00
72	G3	5	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	3961	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	5363	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	5820	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6321	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6803	DT	O3'-P-O5'	-8.90	87.09	104.00
23	BA	22	DT	O3'-P-O5'	-8.90	87.09	104.00
84	H5	15	DT	O3'-P-O5'	-8.90	87.09	104.00
98	I8	40	DT	O3'-P-O5'	-8.90	87.09	104.00
101	IC	8	DT	O3'-P-O5'	-8.90	87.09	104.00
131	L8	14	DT	O3'-P-O5'	-8.90	87.09	104.00
211	TD	5	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	5435	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	5810	DT	O3'-P-O5'	-8.90	87.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5832	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	5882	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	6007	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	6246	DT	O3'-P-O5'	-8.90	87.09	104.00
11	AB	6549	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	6649	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	6673	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	7063	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	7079	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	7097	DT	O3'-P-O5'	-8.90	87.10	104.00
16	B3	19	DT	O3'-P-O5'	-8.90	87.09	104.00
37	D1	4	DT	O3'-P-O5'	-8.90	87.10	104.00
42	D7	10	DT	O3'-P-O5'	-8.90	87.09	104.00
53	E7	22	DT	O3'-P-O5'	-8.90	87.10	104.00
54	E8	13	DT	O3'-P-O5'	-8.90	87.10	104.00
223	V5	40	DT	O3'-P-O5'	-8.90	87.09	104.00
60	F2	32	DT	O3'-P-O5'	-8.90	87.10	104.00
72	G3	21	DT	O3'-P-O5'	-8.90	87.10	104.00
84	H5	4	DT	O3'-P-O5'	-8.90	87.10	104.00
97	I7	12	DT	O3'-P-O5'	-8.90	87.10	104.00
105	J3	28	DT	O3'-P-O5'	-8.90	87.10	104.00
108	J7	13	DT	O3'-P-O5'	-8.90	87.09	104.00
123	KC	6	DT	O3'-P-O5'	-8.90	87.09	104.00
138	M5	18	DT	O3'-P-O5'	-8.90	87.10	104.00
148	N5	33	DT	O3'-P-O5'	-8.90	87.10	104.00
158	O5	30	DT	O3'-P-O5'	-8.90	87.09	104.00
183	QC	25	DT	O3'-P-O5'	-8.90	87.09	104.00
171	P8	21	DT	O3'-P-O5'	-8.90	87.10	104.00
172	P9	12	DT	O3'-P-O5'	-8.90	87.10	104.00
186	R3	21	DT	O3'-P-O5'	-8.90	87.10	104.00
189	R8	13	DT	O3'-P-O5'	-8.90	87.10	104.00
189	R8	25	DT	O3'-P-O5'	-8.90	87.10	104.00
201	SC	3	DT	O3'-P-O5'	-8.90	87.10	104.00
221	V2	23	DT	O3'-P-O5'	-8.90	87.09	104.00
235	WD	19	DT	O3'-P-O5'	-8.90	87.09	104.00
213	U3	17	DT	O3'-P-O5'	-8.90	87.10	104.00
219	UC	11	DT	O3'-P-O5'	-8.90	87.10	104.00
235	WD	20	DT	O3'-P-O5'	-8.90	87.10	104.00
11	AB	257	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	380	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	1437	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	4872	DT	O3'-P-O5'	-8.89	87.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	A9	1	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	131	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	617	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	810	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	1212	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	1826	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3135	DT	O3'-P-O5'	-8.89	87.10	104.00
26	C1	16	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	1278	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	1865	DA	O3'-P-O5'	-8.89	87.10	104.00
11	AB	1939	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	2249	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3223	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3327	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3427	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3624	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3668	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	4181	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	6366	DT	O3'-P-O5'	-8.89	87.10	104.00
13	AD	20	DT	O3'-P-O5'	-8.89	87.10	104.00
61	F3	25	DC	O3'-P-O5'	-8.89	87.10	104.00
11	AB	2233	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	2330	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	2807	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3027	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3572	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3618	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	4079	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	4120	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	4224	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	4316	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	4353	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5270	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5280	DT	O3'-P-O5'	-8.89	87.10	104.00
130	L7	17	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5291	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5328	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5329	DT	O3'-P-O5'	-8.89	87.10	104.00
43	D8	45	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5423	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5767	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5854	DT	O3'-P-O5'	-8.89	87.10	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6234	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5855	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5880	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	6162	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	6561	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	7036	DT	O3'-P-O5'	-8.89	87.10	104.00
12	AC	10	DT	O3'-P-O5'	-8.89	87.10	104.00
41	D6	39	DT	O3'-P-O5'	-8.89	87.10	104.00
54	E8	24	DT	O3'-P-O5'	-8.89	87.10	104.00
94	I3	7	DT	O3'-P-O5'	-8.89	87.10	104.00
161	O8	24	DT	O3'-P-O5'	-8.89	87.10	104.00
196	S5	25	DT	O3'-P-O5'	-8.89	87.10	104.00
29	C5	37	DT	O3'-P-O5'	-8.89	87.10	104.00
32	C8	49	DT	O3'-P-O5'	-8.89	87.10	104.00
56	EA	16	DT	O3'-P-O5'	-8.89	87.10	104.00
62	F5	28	DT	O3'-P-O5'	-8.89	87.10	104.00
191	RA	29	DT	O3'-P-O5'	-8.89	87.10	104.00
224	V7	7	DT	O3'-P-O5'	-8.89	87.10	104.00
68	FC	3	DT	O3'-P-O5'	-8.89	87.10	104.00
78	GA	4	DT	O3'-P-O5'	-8.89	87.10	104.00
89	HA	7	DT	O3'-P-O5'	-8.89	87.10	104.00
105	J3	25	DT	O3'-P-O5'	-8.89	87.10	104.00
105	J3	30	DC	O3'-P-O5'	-8.89	87.10	104.00
115	K2	31	DT	O3'-P-O5'	-8.89	87.10	104.00
129	L6	7	DT	O3'-P-O5'	-8.89	87.10	104.00
142	M9	3	DT	O3'-P-O5'	-8.89	87.10	104.00
143	MA	16	DT	O3'-P-O5'	-8.89	87.10	104.00
155	ND	11	DT	O3'-P-O5'	-8.89	87.10	104.00
160	O7	30	DC	O3'-P-O5'	-8.89	87.10	104.00
178	Q5	13	DT	O3'-P-O5'	-8.89	87.10	104.00
178	Q5	18	DT	O3'-P-O5'	-8.89	87.10	104.00
181	Q9	10	DT	O3'-P-O5'	-8.89	87.10	104.00
195	S3	12	DT	O3'-P-O5'	-8.89	87.10	104.00
203	T2	15	DT	O3'-P-O5'	-8.89	87.10	104.00
211	TD	6	DT	O3'-P-O5'	-8.89	87.10	104.00
212	U2	23	DT	O3'-P-O5'	-8.89	87.10	104.00
216	U8	1	DT	O3'-P-O5'	-8.89	87.10	104.00
237	X7	22	DT	O3'-P-O5'	-8.89	87.10	104.00
8	A8	27	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2051	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2381	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3244	DT	O3'-P-O5'	-8.89	87.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4687	DT	O3'-P-O5'	-8.89	87.10	104.00
8	A8	18	DT	O3'-P-O5'	-8.89	87.11	104.00
9	A9	3	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	119	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	239	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	620	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	776	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1503	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1780	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5319	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5751	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6020	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6204	DT	O3'-P-O5'	-8.89	87.11	104.00
154	NC	15	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1537	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1644	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1671	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1708	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1955	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1946	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1985	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2101	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2158	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2232	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2254	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2475	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2858	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3059	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2889	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3177	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3536	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	4954	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	5617	DT	O3'-P-O5'	-8.89	87.10	104.00
11	AB	3195	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3869	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3996	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	4102	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	4317	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5031	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5181	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5501	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5711	DT	O3'-P-O5'	-8.89	87.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6127	DT	O3'-P-O5'	-8.89	87.11	104.00
136	M2	11	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5354	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5784	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5856	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5952	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5994	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6197	DT	O3'-P-O5'	-8.89	87.11	104.00
117	K5	1	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6225	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6588	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6738	DT	O3'-P-O5'	-8.89	87.11	104.00
150	N7	16	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6993	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	7001	DT	O3'-P-O5'	-8.89	87.11	104.00
16	B3	9	DT	O3'-P-O5'	-8.89	87.11	104.00
16	B3	14	DT	O3'-P-O5'	-8.89	87.11	104.00
19	B6	10	DT	O3'-P-O5'	-8.89	87.11	104.00
20	B7	5	DT	O3'-P-O5'	-8.89	87.11	104.00
21	B8	6	DT	O3'-P-O5'	-8.89	87.11	104.00
22	B9	29	DT	O3'-P-O5'	-8.89	87.11	104.00
33	C9	26	DT	O3'-P-O5'	-8.89	87.11	104.00
62	F5	22	DT	O3'-P-O5'	-8.89	87.11	104.00
101	IC	9	DT	O3'-P-O5'	-8.89	87.11	104.00
102	ID	27	DT	O3'-P-O5'	-8.89	87.11	104.00
109	J8	5	DT	O3'-P-O5'	-8.89	87.11	104.00
112	JC	15	DT	O3'-P-O5'	-8.89	87.11	104.00
136	M2	12	DT	O3'-P-O5'	-8.89	87.11	104.00
105	J3	26	DT	O3'-P-O5'	-8.89	87.11	104.00
130	L7	45	DT	O3'-P-O5'	-8.89	87.11	104.00
138	M5	26	DT	O3'-P-O5'	-8.89	87.11	104.00
141	M8	29	DT	O3'-P-O5'	-8.89	87.10	104.00
149	N6	14	DT	O3'-P-O5'	-8.89	87.11	104.00
172	P9	11	DT	O3'-P-O5'	-8.89	87.11	104.00
172	P9	13	DT	O3'-P-O5'	-8.89	87.11	104.00
176	Q2	16	DT	O3'-P-O5'	-8.89	87.11	104.00
180	Q8	18	DT	O3'-P-O5'	-8.89	87.11	104.00
184	QD	12	DT	O3'-P-O5'	-8.89	87.11	104.00
177	Q3	6	DT	O3'-P-O5'	-8.89	87.11	104.00
189	R8	12	DT	O3'-P-O5'	-8.89	87.11	104.00
190	R9	2	DT	O3'-P-O5'	-8.89	87.11	104.00
195	S3	19	DT	O3'-P-O5'	-8.89	87.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
211	TD	1	DT	O3'-P-O5'	-8.89	87.11	104.00
231	W5	19	DT	O3'-P-O5'	-8.89	87.11	104.00
9	A9	4	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	392	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	696	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1324	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1356	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5905	DT	O3'-P-O5'	-8.89	87.11	104.00
107	J6	31	DT	O3'-P-O5'	-8.89	87.11	104.00
123	KC	27	DT	O3'-P-O5'	-8.89	87.11	104.00
3	A3	4	DT	O3'-P-O5'	-8.89	87.11	104.00
3	A3	18	DT	O3'-P-O5'	-8.89	87.11	104.00
5	A5	36	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1439	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2752	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3506	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3852	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	4425	DT	O3'-P-O5'	-8.89	87.11	104.00
66	F9	21	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	27	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	36	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	143	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	144	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	334	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	741	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1457	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1740	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	1533	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2048	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2129	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2155	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2282	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2393	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2459	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2626	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2894	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2530	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2704	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2768	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2871	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2930	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2945	DT	O3'-P-O5'	-8.89	87.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3117	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	2958	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3103	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3209	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3233	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3987	DC	O3'-P-O5'	-8.89	87.11	104.00
11	AB	4408	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	4415	DT	O3'-P-O5'	-8.89	87.11	104.00
142	M9	10	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3321	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3746	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	3763	DC	O3'-P-O5'	-8.89	87.11	104.00
11	AB	4458	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5125	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5265	DT	O3'-P-O5'	-8.89	87.11	104.00
157	O3	4	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5684	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5714	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	5724	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6101	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6143	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6293	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6766	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	6372	DT	O3'-P-O5'	-8.89	87.11	104.00
29	C5	17	DT	O3'-P-O5'	-8.89	87.11	104.00
31	C7	8	DT	O3'-P-O5'	-8.89	87.11	104.00
42	D7	1	DT	O3'-P-O5'	-8.89	87.11	104.00
44	D9	20	DT	O3'-P-O5'	-8.89	87.11	104.00
51	E5	17	DT	O3'-P-O5'	-8.89	87.11	104.00
49	E2	9	DT	O3'-P-O5'	-8.89	87.11	104.00
52	E6	2	DT	O3'-P-O5'	-8.89	87.11	104.00
56	EA	13	DT	O3'-P-O5'	-8.89	87.11	104.00
69	FD	13	DT	O3'-P-O5'	-8.89	87.11	104.00
73	G5	10	DT	O3'-P-O5'	-8.89	87.11	104.00
74	G6	25	DT	O3'-P-O5'	-8.89	87.11	104.00
160	O7	23	DT	O3'-P-O5'	-8.89	87.11	104.00
91	HD	9	DT	O3'-P-O5'	-8.89	87.11	104.00
96	I6	12	DT	O3'-P-O5'	-8.89	87.11	104.00
99	I9	1	DT	O3'-P-O5'	-8.89	87.11	104.00
110	J9	5	DT	O3'-P-O5'	-8.89	87.11	104.00
117	K5	14	DT	O3'-P-O5'	-8.89	87.11	104.00
125	L1	31	DT	O3'-P-O5'	-8.89	87.11	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
131	L8	28	DT	O3'-P-O5'	-8.89	87.11	104.00
133	LA	21	DT	O3'-P-O5'	-8.89	87.11	104.00
126	L2	9	DT	O3'-P-O5'	-8.89	87.11	104.00
129	L6	9	DT	O3'-P-O5'	-8.89	87.11	104.00
130	L7	51	DT	O3'-P-O5'	-8.89	87.11	104.00
149	N6	16	DT	O3'-P-O5'	-8.89	87.11	104.00
165	OD	25	DT	O3'-P-O5'	-8.89	87.11	104.00
173	PA	22	DT	O3'-P-O5'	-8.89	87.11	104.00
190	R9	24	DT	O3'-P-O5'	-8.89	87.11	104.00
193	RD	12	DT	O3'-P-O5'	-8.89	87.11	104.00
215	U7	4	DT	O3'-P-O5'	-8.89	87.11	104.00
221	V2	2	DT	O3'-P-O5'	-8.89	87.11	104.00
152	N9	50	DT	O3'-P-O5'	-8.89	87.11	104.00
161	O8	48	DT	O3'-P-O5'	-8.89	87.11	104.00
188	R7	30	DC	O3'-P-O5'	-8.89	87.11	104.00
190	R9	1	DT	O3'-P-O5'	-8.89	87.11	104.00
196	S5	30	DT	O3'-P-O5'	-8.89	87.11	104.00
236	X5	21	DT	O3'-P-O5'	-8.89	87.11	104.00
237	X7	1	DT	O3'-P-O5'	-8.89	87.11	104.00
11	AB	66	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	796	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	1332	DT	O3'-P-O5'	-8.89	87.12	104.00
6	A6	19	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	130	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	566	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	6148	DT	O3'-P-O5'	-8.89	87.12	104.00
105	J3	13	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	159	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	282	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	507	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	654	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	684	DC	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1273	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1279	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1587	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	1296	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1344	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1351	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1584	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	1995	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	2257	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	2560	DT	O3'-P-O5'	-8.89	87.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6668	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	7103	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	1373	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1397	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1567	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1631	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1698	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1873	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	2182	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	2225	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	2421	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	2427	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	2469	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	2904	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	3014	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	3017	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	3281	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	3385	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	3396	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	3548	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	3598	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	3666	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	3667	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	3831	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	3855	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	4191	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	4245	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	4309	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	4407	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	4417	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	4830	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5679	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	6393	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	5330	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5644	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5746	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5919	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5937	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	6172	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	6206	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	6281	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	6351	DT	O3'-P-O5'	-8.88	87.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6368	DT	O3'-P-O5'	-8.88	87.12	104.00
50	E3	11	DT	O3'-P-O5'	-8.89	87.12	104.00
11	AB	6699	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	6913	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	7133	DT	O3'-P-O5'	-8.88	87.12	104.00
13	AD	12	DT	O3'-P-O5'	-8.88	87.12	104.00
21	B8	1	DT	O3'-P-O5'	-8.88	87.12	104.00
30	C6	20	DT	O3'-P-O5'	-8.88	87.12	104.00
32	C8	51	DT	O3'-P-O5'	-8.88	87.12	104.00
44	D9	11	DT	O3'-P-O5'	-8.88	87.12	104.00
51	E5	31	DT	O3'-P-O5'	-8.88	87.12	104.00
54	E8	11	DT	O3'-P-O5'	-8.88	87.12	104.00
55	E9	36	DT	O3'-P-O5'	-8.88	87.12	104.00
58	ED	11	DC	O3'-P-O5'	-8.88	87.12	104.00
62	F5	36	DT	O3'-P-O5'	-8.89	87.12	104.00
60	F2	16	DT	O3'-P-O5'	-8.88	87.12	104.00
62	F5	44	DT	O3'-P-O5'	-8.88	87.12	104.00
69	FD	22	DT	O3'-P-O5'	-8.88	87.12	104.00
72	G3	16	DT	O3'-P-O5'	-8.88	87.12	104.00
77	G9	2	DT	O3'-P-O5'	-8.89	87.12	104.00
86	H7	18	DT	O3'-P-O5'	-8.89	87.12	104.00
142	M9	12	DT	O3'-P-O5'	-8.89	87.12	104.00
82	H2	10	DT	O3'-P-O5'	-8.88	87.12	104.00
95	I5	40	DT	O3'-P-O5'	-8.88	87.12	104.00
129	L6	8	DT	O3'-P-O5'	-8.89	87.12	104.00
141	M8	22	DT	O3'-P-O5'	-8.89	87.12	104.00
98	I8	6	DT	O3'-P-O5'	-8.88	87.12	104.00
108	J7	3	DT	O3'-P-O5'	-8.88	87.12	104.00
125	L1	22	DT	O3'-P-O5'	-8.88	87.12	104.00
126	L2	10	DT	O3'-P-O5'	-8.88	87.12	104.00
152	N9	5	DT	O3'-P-O5'	-8.88	87.12	104.00
166	P2	18	DT	O3'-P-O5'	-8.88	87.12	104.00
172	P9	10	DT	O3'-P-O5'	-8.88	87.12	104.00
175	PD	15	DT	O3'-P-O5'	-8.88	87.12	104.00
176	Q2	20	DT	O3'-P-O5'	-8.88	87.12	104.00
218	UA	2	DT	O3'-P-O5'	-8.89	87.12	104.00
178	Q5	19	DT	O3'-P-O5'	-8.88	87.12	104.00
184	QD	8	DT	O3'-P-O5'	-8.88	87.12	104.00
184	QD	10	DT	O3'-P-O5'	-8.88	87.12	104.00
185	R2	2	DT	O3'-P-O5'	-8.88	87.12	104.00
216	U8	6	DT	O3'-P-O5'	-8.88	87.12	104.00
219	UC	10	DT	O3'-P-O5'	-8.88	87.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
225	V8	16	DT	O3'-P-O5'	-8.88	87.12	104.00
227	VA	28	DT	O3'-P-O5'	-8.88	87.12	104.00
228	VC	18	DC	O3'-P-O5'	-8.88	87.12	104.00
228	VC	37	DT	O3'-P-O5'	-8.89	87.12	104.00
232	W7	13	DT	O3'-P-O5'	-8.88	87.12	104.00
237	X7	10	DT	O3'-P-O5'	-8.88	87.12	104.00
1	A1	38	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	254	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	4190	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	6606	DC	O3'-P-O5'	-8.88	87.12	104.00
2	A2	16	DT	O3'-P-O5'	-8.88	87.13	104.00
4	A4	27	DT	O3'-P-O5'	-8.88	87.12	104.00
5	A5	12	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	10	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	30	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	503	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	699	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	795	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1079	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1377	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1463	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1877	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	2470	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	2630	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	2708	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	3302	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	4031	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	4366	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	4409	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5368	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5432	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5595	DC	O3'-P-O5'	-8.88	87.12	104.00
11	AB	6679	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	6890	DT	O3'-P-O5'	-8.88	87.12	104.00
43	D8	11	DT	O3'-P-O5'	-8.88	87.12	104.00
109	J8	23	DT	O3'-P-O5'	-8.88	87.12	104.00
222	V3	7	DT	O3'-P-O5'	-8.88	87.12	104.00
228	VC	10	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	65	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	162	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	591	DC	O3'-P-O5'	-8.88	87.13	104.00
11	AB	656	DT	O3'-P-O5'	-8.88	87.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	BA	6	DT	O3'-P-O5'	-8.88	87.12	104.00
53	E7	6	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	798	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	1106	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	1169	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	1363	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3332	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	4786	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5542	DT	O3'-P-O5'	-8.88	87.12	104.00
160	O7	24	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	1653	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	1744	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2116	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2132	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2133	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2349	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5661	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	2302	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2396	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2536	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2736	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	2891	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	2738	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3095	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3343	DC	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3366	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3557	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3725	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3820	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3881	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3979	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	4875	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	6770	DT	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5308	DT	O3'-P-O5'	-8.88	87.13	104.00
47	DD	22	DT	O3'-P-O5'	-8.88	87.12	104.00
48	E1	22	DT	O3'-P-O5'	-8.88	87.12	104.00
117	K5	20	DC	O3'-P-O5'	-8.88	87.12	104.00
11	AB	5616	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6026	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6341	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6467	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6552	DT	O3'-P-O5'	-8.88	87.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6710	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6758	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6989	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	7170	DT	O3'-P-O5'	-8.88	87.13	104.00
13	AD	23	DT	O3'-P-O5'	-8.88	87.13	104.00
40	D5	21	DT	O3'-P-O5'	-8.88	87.12	104.00
122	KA	49	DT	O3'-P-O5'	-8.88	87.12	104.00
202	SD	29	DT	O3'-P-O5'	-8.88	87.12	104.00
13	AD	36	DT	O3'-P-O5'	-8.88	87.13	104.00
21	B8	4	DT	O3'-P-O5'	-8.88	87.12	104.00
21	B8	13	DT	O3'-P-O5'	-8.88	87.13	104.00
29	C5	30	DT	O3'-P-O5'	-8.88	87.13	104.00
41	D6	31	DT	O3'-P-O5'	-8.88	87.13	104.00
41	D6	38	DT	O3'-P-O5'	-8.88	87.13	104.00
64	F7	27	DT	O3'-P-O5'	-8.88	87.13	104.00
67	FA	25	DT	O3'-P-O5'	-8.88	87.13	104.00
69	FD	10	DT	O3'-P-O5'	-8.88	87.13	104.00
75	G7	12	DT	O3'-P-O5'	-8.88	87.13	104.00
79	GC	22	DT	O3'-P-O5'	-8.88	87.12	104.00
96	I6	1	DT	O3'-P-O5'	-8.88	87.13	104.00
98	I8	5	DT	O3'-P-O5'	-8.88	87.13	104.00
102	ID	10	DT	O3'-P-O5'	-8.88	87.13	104.00
102	ID	14	DT	O3'-P-O5'	-8.88	87.12	104.00
104	J2	38	DT	O3'-P-O5'	-8.88	87.13	104.00
120	K8	14	DC	O3'-P-O5'	-8.88	87.13	104.00
122	KA	37	DT	O3'-P-O5'	-8.88	87.13	104.00
124	KD	10	DT	O3'-P-O5'	-8.88	87.13	104.00
138	M5	40	DT	O3'-P-O5'	-8.88	87.13	104.00
141	M8	12	DT	O3'-P-O5'	-8.88	87.12	104.00
152	N9	6	DT	O3'-P-O5'	-8.88	87.13	104.00
159	O6	12	DT	O3'-P-O5'	-8.88	87.12	104.00
160	O7	22	DT	O3'-P-O5'	-8.88	87.13	104.00
163	OA	10	DC	O3'-P-O5'	-8.88	87.13	104.00
177	Q3	13	DT	O3'-P-O5'	-8.88	87.13	104.00
181	Q9	9	DT	O3'-P-O5'	-8.88	87.12	104.00
181	Q9	34	DT	O3'-P-O5'	-8.88	87.12	104.00
192	RC	17	DT	O3'-P-O5'	-8.88	87.13	104.00
194	S2	27	DT	O3'-P-O5'	-8.88	87.13	104.00
198	S8	43	DT	O3'-P-O5'	-8.88	87.13	104.00
208	T9	10	DT	O3'-P-O5'	-8.88	87.12	104.00
208	T9	19	DT	O3'-P-O5'	-8.88	87.13	104.00
215	U7	18	DC	O3'-P-O5'	-8.88	87.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
223	V5	33	DT	O3'-P-O5'	-8.88	87.12	104.00
226	V9	9	DT	O3'-P-O5'	-8.88	87.12	104.00
232	W7	26	DT	O3'-P-O5'	-8.88	87.13	104.00
238	X9	1	DC	O3'-P-O5'	-8.88	87.13	104.00
238	X9	40	DT	O3'-P-O5'	-8.88	87.13	104.00
4	A4	20	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	646	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3241	DT	O3'-P-O5'	-8.88	87.13	104.00
2	A2	18	DT	O3'-P-O5'	-8.88	87.13	104.00
5	A5	17	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	283	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2222	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	7041	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	7134	DT	O3'-P-O5'	-8.88	87.13	104.00
54	E8	22	DT	O3'-P-O5'	-8.88	87.13	104.00
118	K6	20	DT	O3'-P-O5'	-8.88	87.13	104.00
224	V7	18	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	74	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	160	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	323	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	395	DC	O3'-P-O5'	-8.88	87.13	104.00
11	AB	464	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	770	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	1482	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	1490	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	1838	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	1878	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2542	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2547	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2767	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	5768	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6986	DT	O3'-P-O5'	-8.88	87.13	104.00
54	E8	12	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2126	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2128	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2327	DC	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2720	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2890	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	2898	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	5141	DT	O3'-P-O5'	-8.88	87.13	104.00
103	J1	27	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3297	DT	O3'-P-O5'	-8.88	87.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3351	DC	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3362	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	3978	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	4169	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	4984	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	5180	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	5774	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	5266	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	5269	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	5766	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	5829	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	7117	DC	O3'-P-O5'	-8.88	87.13	104.00
95	I5	5	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	5838	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	5843	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6079	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6221	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6924	DT	O3'-P-O5'	-8.88	87.13	104.00
49	E2	21	DT	O3'-P-O5'	-8.88	87.13	104.00
145	MD	35	DT	O3'-P-O5'	-8.88	87.13	104.00
189	R8	6	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6280	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6374	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6450	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6456	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6461	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6522	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	6761	DT	O3'-P-O5'	-8.88	87.13	104.00
11	AB	7100	DC	O3'-P-O5'	-8.88	87.13	104.00
11	AB	7158	DT	O3'-P-O5'	-8.88	87.13	104.00
22	B9	42	DC	O3'-P-O5'	-8.88	87.13	104.00
26	C1	23	DT	O3'-P-O5'	-8.88	87.13	104.00
31	C7	4	DT	O3'-P-O5'	-8.88	87.13	104.00
40	D5	9	DT	O3'-P-O5'	-8.88	87.13	104.00
53	E7	21	DT	O3'-P-O5'	-8.88	87.13	104.00
55	E9	33	DT	O3'-P-O5'	-8.88	87.13	104.00
60	F2	8	DT	O3'-P-O5'	-8.88	87.13	104.00
67	FA	20	DT	O3'-P-O5'	-8.88	87.13	104.00
91	HD	7	DT	O3'-P-O5'	-8.88	87.13	104.00
91	HD	13	DT	O3'-P-O5'	-8.88	87.13	104.00
108	J7	44	DT	O3'-P-O5'	-8.88	87.13	104.00
214	U5	11	DT	O3'-P-O5'	-8.88	87.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
93	I2	11	DT	O3'-P-O5'	-8.88	87.13	104.00
126	L2	22	DT	O3'-P-O5'	-8.88	87.13	104.00
221	V2	8	DT	O3'-P-O5'	-8.88	87.13	104.00
126	L2	53	DT	O3'-P-O5'	-8.88	87.13	104.00
129	L6	14	DT	O3'-P-O5'	-8.88	87.13	104.00
135	LD	12	DC	O3'-P-O5'	-8.88	87.13	104.00
137	M3	22	DT	O3'-P-O5'	-8.88	87.13	104.00
138	M5	36	DC	O3'-P-O5'	-8.88	87.13	104.00
141	M8	28	DT	O3'-P-O5'	-8.88	87.13	104.00
142	M9	14	DT	O3'-P-O5'	-8.88	87.13	104.00
233	W8	6	DT	O3'-P-O5'	-8.88	87.13	104.00
147	N3	32	DT	O3'-P-O5'	-8.88	87.13	104.00
150	N7	1	DT	O3'-P-O5'	-8.88	87.13	104.00
154	NC	12	DT	O3'-P-O5'	-8.88	87.13	104.00
159	O6	14	DT	O3'-P-O5'	-8.88	87.14	104.00
164	OC	18	DT	O3'-P-O5'	-8.88	87.13	104.00
166	P2	26	DT	O3'-P-O5'	-8.88	87.13	104.00
167	P3	14	DT	O3'-P-O5'	-8.88	87.13	104.00
181	Q9	8	DT	O3'-P-O5'	-8.88	87.13	104.00
181	Q9	23	DT	O3'-P-O5'	-8.88	87.13	104.00
184	QD	11	DT	O3'-P-O5'	-8.88	87.13	104.00
189	R8	17	DT	O3'-P-O5'	-8.88	87.13	104.00
194	S2	8	DT	O3'-P-O5'	-8.88	87.13	104.00
194	S2	9	DT	O3'-P-O5'	-8.88	87.13	104.00
211	TD	18	DT	O3'-P-O5'	-8.88	87.13	104.00
211	TD	19	DT	O3'-P-O5'	-8.88	87.13	104.00
214	U5	31	DT	O3'-P-O5'	-8.88	87.13	104.00
218	UA	1	DT	O3'-P-O5'	-8.88	87.13	104.00
234	W9	2	DT	O3'-P-O5'	-8.88	87.13	104.00
236	X5	11	DT	O3'-P-O5'	-8.88	87.13	104.00
122	KA	50	DT	O3'-P-O5'	-8.88	87.14	104.00
161	O8	46	DT	O3'-P-O5'	-8.88	87.14	104.00
1	A1	18	DT	O3'-P-O5'	-8.87	87.14	104.00
2	A2	27	DT	O3'-P-O5'	-8.88	87.14	104.00
5	A5	11	DT	O3'-P-O5'	-8.88	87.14	104.00
5	A5	21	DT	O3'-P-O5'	-8.88	87.14	104.00
7	A7	39	DT	O3'-P-O5'	-8.88	87.14	104.00
9	A9	16	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	103	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	531	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	1357	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	1476	DT	O3'-P-O5'	-8.88	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1564	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	1649	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	1775	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	2648	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	4002	DC	O3'-P-O5'	-8.88	87.14	104.00
11	AB	4511	DC	O3'-P-O5'	-8.88	87.14	104.00
11	AB	5160	DC	O3'-P-O5'	-8.88	87.14	104.00
87	H8	7	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	570	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	705	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	783	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1172	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	1594	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	1741	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1911	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	2140	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	2395	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	2575	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	3533	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	3596	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	3798	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	6282	DT	O3'-P-O5'	-8.88	87.14	104.00
179	Q7	14	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	2148	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2221	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2660	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	2938	DC	O3'-P-O5'	-8.88	87.14	104.00
11	AB	3261	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	3367	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	3426	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	3535	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	3639	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	3783	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	3816	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	3819	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	6509	DT	O3'-P-O5'	-8.88	87.14	104.00
193	RD	17	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	4160	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	4392	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	4429	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	4457	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	4639	DT	O3'-P-O5'	-8.88	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4914	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5184	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5414	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	5490	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5747	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5826	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5894	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	6440	DT	O3'-P-O5'	-8.88	87.14	104.00
20	B7	6	DT	O3'-P-O5'	-8.88	87.14	104.00
37	D1	2	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	5966	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6036	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6205	DT	O3'-P-O5'	-8.88	87.14	104.00
11	AB	6333	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6380	DC	O3'-P-O5'	-8.88	87.14	104.00
13	AD	35	DT	O3'-P-O5'	-8.88	87.14	104.00
17	B4	6	DT	O3'-P-O5'	-8.87	87.14	104.00
28	C3	6	DC	O3'-P-O5'	-8.88	87.14	104.00
44	D9	8	DT	O3'-P-O5'	-8.88	87.14	104.00
74	G6	19	DT	O3'-P-O5'	-8.88	87.14	104.00
46	DC	17	DC	O3'-P-O5'	-8.87	87.14	104.00
60	F2	9	DT	O3'-P-O5'	-8.88	87.14	104.00
63	F6	18	DT	O3'-P-O5'	-8.87	87.14	104.00
69	FD	27	DT	O3'-P-O5'	-8.88	87.14	104.00
75	G7	27	DC	O3'-P-O5'	-8.88	87.14	104.00
85	H6	2	DT	O3'-P-O5'	-8.88	87.14	104.00
89	HA	18	DT	O3'-P-O5'	-8.88	87.14	104.00
110	J9	8	DT	O3'-P-O5'	-8.88	87.14	104.00
122	KA	36	DT	O3'-P-O5'	-8.88	87.14	104.00
94	I3	25	DT	O3'-P-O5'	-8.87	87.14	104.00
94	I3	41	DT	O3'-P-O5'	-8.87	87.14	104.00
95	I5	23	DT	O3'-P-O5'	-8.87	87.14	104.00
96	I6	7	DT	O3'-P-O5'	-8.88	87.14	104.00
98	I8	12	DC	O3'-P-O5'	-8.87	87.14	104.00
110	J9	16	DC	O3'-P-O5'	-8.88	87.14	104.00
127	L3	6	DT	O3'-P-O5'	-8.88	87.14	104.00
130	L7	46	DT	O3'-P-O5'	-8.88	87.14	104.00
173	PA	19	DT	O3'-P-O5'	-8.88	87.14	104.00
181	Q9	35	DT	O3'-P-O5'	-8.88	87.14	104.00
181	Q9	37	DC	O3'-P-O5'	-8.88	87.14	104.00
184	QD	29	DT	O3'-P-O5'	-8.88	87.14	104.00
194	S2	26	DT	O3'-P-O5'	-8.88	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
200	SA	18	DT	O3'-P-O5'	-8.88	87.14	104.00
207	T8	10	DT	O3'-P-O5'	-8.87	87.14	104.00
233	W8	23	DT	O3'-P-O5'	-8.88	87.14	104.00
238	X9	27	DT	O3'-P-O5'	-8.87	87.14	104.00
3	A3	8	DC	O3'-P-O5'	-8.87	87.14	104.00
6	A6	24	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	108	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	109	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	129	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	133	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2402	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	4591	DC	O3'-P-O5'	-8.87	87.14	104.00
9	A9	14	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	120	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	142	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1272	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	192	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	396	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1001	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1462	DT	O3'-P-O5'	-8.87	87.14	104.00
141	M8	17	DC	O3'-P-O5'	-8.87	87.14	104.00
142	M9	22	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1123	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1258	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1369	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1422	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1486	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1620	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1763	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1885	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1941	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	1993	DC	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2046	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2069	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2226	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2227	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2323	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2559	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2748	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2757	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2783	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	2874	DT	O3'-P-O5'	-8.87	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3041	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	3404	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	3531	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	3549	DT	O3'-P-O5'	-8.87	87.14	104.00
171	P8	11	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	3786	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	3801	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5126	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	3867	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	4143	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	4237	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	4618	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	4640	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5206	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5500	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5558	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5745	DT	O3'-P-O5'	-8.87	87.14	104.00
100	IA	14	DT	O3'-P-O5'	-8.87	87.14	104.00
127	L3	9	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	5834	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6377	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6915	DC	O3'-P-O5'	-8.87	87.14	104.00
115	K2	33	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6512	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6524	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6757	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6771	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6847	DC	O3'-P-O5'	-8.87	87.14	104.00
11	AB	6971	DT	O3'-P-O5'	-8.87	87.14	104.00
17	B4	7	DT	O3'-P-O5'	-8.87	87.14	104.00
26	C1	5	DT	O3'-P-O5'	-8.87	87.14	104.00
29	C5	24	DT	O3'-P-O5'	-8.87	87.14	104.00
31	C7	26	DT	O3'-P-O5'	-8.87	87.14	104.00
49	E2	38	DC	O3'-P-O5'	-8.87	87.14	104.00
50	E3	7	DT	O3'-P-O5'	-8.87	87.14	104.00
51	E5	32	DT	O3'-P-O5'	-8.87	87.14	104.00
62	F5	40	DT	O3'-P-O5'	-8.87	87.14	104.00
74	G6	14	DT	O3'-P-O5'	-8.87	87.14	104.00
83	H3	15	DC	O3'-P-O5'	-8.87	87.14	104.00
96	I6	8	DT	O3'-P-O5'	-8.87	87.14	104.00
97	I7	21	DC	O3'-P-O5'	-8.87	87.14	104.00
102	ID	15	DT	O3'-P-O5'	-8.87	87.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
106	J5	31	DC	O3'-P-O5'	-8.87	87.14	104.00
139	M6	1	DC	O3'-P-O5'	-8.87	87.14	104.00
165	OD	4	DT	O3'-P-O5'	-8.87	87.14	104.00
229	VD	20	DT	O3'-P-O5'	-8.87	87.14	104.00
115	K2	32	DT	O3'-P-O5'	-8.87	87.14	104.00
120	K8	12	DT	O3'-P-O5'	-8.87	87.14	104.00
130	L7	4	DT	O3'-P-O5'	-8.87	87.14	104.00
165	OD	57	DT	O3'-P-O5'	-8.87	87.14	104.00
145	MD	17	DT	O3'-P-O5'	-8.87	87.14	104.00
152	N9	13	DT	O3'-P-O5'	-8.87	87.15	104.00
156	O2	43	DT	O3'-P-O5'	-8.87	87.14	104.00
204	T3	11	DT	O3'-P-O5'	-8.87	87.14	104.00
210	TC	18	DT	O3'-P-O5'	-8.87	87.14	104.00
178	Q5	20	DT	O3'-P-O5'	-8.87	87.14	104.00
182	QA	27	DT	O3'-P-O5'	-8.87	87.14	104.00
196	S5	31	DT	O3'-P-O5'	-8.87	87.14	104.00
198	S8	41	DT	O3'-P-O5'	-8.87	87.15	104.00
202	SD	28	DT	O3'-P-O5'	-8.87	87.14	104.00
217	U9	13	DT	O3'-P-O5'	-8.87	87.14	104.00
226	V9	33	DT	O3'-P-O5'	-8.87	87.14	104.00
231	W5	26	DT	O3'-P-O5'	-8.87	87.14	104.00
11	AB	803	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	875	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1451	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1663	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1753	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	3204	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	3963	DC	O3'-P-O5'	-8.87	87.15	104.00
11	AB	4156	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	6735	DC	O3'-P-O5'	-8.87	87.15	104.00
85	H6	19	DT	O3'-P-O5'	-8.87	87.15	104.00
171	P8	24	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	338	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	556	DC	O3'-P-O5'	-8.87	87.15	104.00
11	AB	785	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1042	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1111	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1444	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1446	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2039	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2247	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2565	DT	O3'-P-O5'	-8.87	87.15	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2773	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2965	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	3091	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	4080	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	4363	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	5271	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	5673	DT	O3'-P-O5'	-8.87	87.15	104.00
26	C1	21	DT	O3'-P-O5'	-8.87	87.15	104.00
57	EC	6	DT	O3'-P-O5'	-8.87	87.15	104.00
62	F5	29	DT	O3'-P-O5'	-8.87	87.15	104.00
79	GC	24	DC	O3'-P-O5'	-8.87	87.15	104.00
81	H1	21	DT	O3'-P-O5'	-8.87	87.15	104.00
113	JD	16	DT	O3'-P-O5'	-8.87	87.15	104.00
136	M2	3	DT	O3'-P-O5'	-8.87	87.15	104.00
146	N2	12	DT	O3'-P-O5'	-8.87	87.15	104.00
172	P9	5	DT	O3'-P-O5'	-8.87	87.15	104.00
172	P9	6	DT	O3'-P-O5'	-8.87	87.15	104.00
214	U5	5	DC	O3'-P-O5'	-8.87	87.15	104.00
232	W7	10	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1244	DC	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1355	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1434	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1455	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1783	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2060	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2299	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2322	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2369	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2384	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	4741	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2443	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2625	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2634	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	5223	DT	O3'-P-O5'	-8.87	87.15	104.00
54	E8	34	DC	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2756	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2762	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2952	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	3248	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	3389	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	4714	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	5342	DT	O3'-P-O5'	-8.87	87.15	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5645	DT	O3'-P-O5'	-8.87	87.15	104.00
16	B3	20	DT	O3'-P-O5'	-8.87	87.15	104.00
71	G2	14	DT	O3'-P-O5'	-8.87	87.15	104.00
93	I2	33	DT	O3'-P-O5'	-8.87	87.15	104.00
116	K3	11	DT	O3'-P-O5'	-8.87	87.15	104.00
158	O5	44	DT	O3'-P-O5'	-8.87	87.15	104.00
160	O7	9	DT	O3'-P-O5'	-8.87	87.15	104.00
214	U5	13	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	5002	DC	O3'-P-O5'	-8.87	87.15	104.00
11	AB	5604	DC	O3'-P-O5'	-8.87	87.15	104.00
11	AB	5651	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	5897	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	5904	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	6112	DC	O3'-P-O5'	-8.87	87.15	104.00
11	AB	6220	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	6451	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	6776	DT	O3'-P-O5'	-8.87	87.15	104.00
96	I6	13	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	6850	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	7164	DC	O3'-P-O5'	-8.87	87.15	104.00
11	AB	7236	DC	O3'-P-O5'	-8.87	87.15	104.00
19	B6	18	DT	O3'-P-O5'	-8.87	87.15	104.00
21	B8	5	DT	O3'-P-O5'	-8.87	87.15	104.00
21	B8	24	DT	O3'-P-O5'	-8.87	87.15	104.00
32	C8	50	DT	O3'-P-O5'	-8.87	87.15	104.00
34	CA	1	DT	O3'-P-O5'	-8.87	87.15	104.00
39	D3	17	DT	O3'-P-O5'	-8.87	87.15	104.00
42	D7	20	DC	O3'-P-O5'	-8.87	87.15	104.00
48	E1	17	DC	O3'-P-O5'	-8.87	87.15	104.00
167	P3	12	DT	O3'-P-O5'	-8.87	87.15	104.00
48	E1	27	DT	O3'-P-O5'	-8.87	87.15	104.00
62	F5	16	DC	O3'-P-O5'	-8.87	87.15	104.00
74	G6	12	DC	O3'-P-O5'	-8.87	87.15	104.00
81	H1	18	DT	O3'-P-O5'	-8.87	87.15	104.00
82	H2	26	DT	O3'-P-O5'	-8.87	87.15	104.00
94	I3	53	DT	O3'-P-O5'	-8.87	87.15	104.00
112	JC	5	DC	O3'-P-O5'	-8.87	87.15	104.00
113	JD	24	DC	O3'-P-O5'	-8.87	87.15	104.00
115	K2	22	DT	O3'-P-O5'	-8.87	87.15	104.00
193	RD	21	DT	O3'-P-O5'	-8.87	87.15	104.00
100	IA	12	DT	O3'-P-O5'	-8.87	87.15	104.00
113	JD	34	DT	O3'-P-O5'	-8.87	87.15	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
116	K3	20	DC	O3'-P-O5'	-8.87	87.15	104.00
118	K6	10	DC	O3'-P-O5'	-8.87	87.15	104.00
118	K6	21	DT	O3'-P-O5'	-8.87	87.15	104.00
121	K9	22	DT	O3'-P-O5'	-8.87	87.15	104.00
135	LD	10	DT	O3'-P-O5'	-8.87	87.15	104.00
143	MA	46	DC	O3'-P-O5'	-8.87	87.15	104.00
151	N8	6	DC	O3'-P-O5'	-8.87	87.15	104.00
211	TD	14	DT	O3'-P-O5'	-8.87	87.15	104.00
127	L3	13	DT	O3'-P-O5'	-8.87	87.15	104.00
132	L9	3	DT	O3'-P-O5'	-8.87	87.15	104.00
136	M2	13	DT	O3'-P-O5'	-8.87	87.15	104.00
152	N9	21	DT	O3'-P-O5'	-8.87	87.15	104.00
156	O2	30	DC	O3'-P-O5'	-8.87	87.15	104.00
156	O2	34	DT	O3'-P-O5'	-8.87	87.15	104.00
158	O5	36	DC	O3'-P-O5'	-8.87	87.15	104.00
176	Q2	12	DT	O3'-P-O5'	-8.87	87.15	104.00
184	QD	27	DT	O3'-P-O5'	-8.87	87.15	104.00
189	R8	37	DC	O3'-P-O5'	-8.87	87.15	104.00
219	UC	16	DT	O3'-P-O5'	-8.87	87.15	104.00
192	RC	18	DT	O3'-P-O5'	-8.87	87.15	104.00
204	T3	36	DT	O3'-P-O5'	-8.87	87.15	104.00
217	U9	5	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	121	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	186	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	596	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	1133	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1174	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	1354	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	1421	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	1454	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	2244	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2811	DT	O3'-P-O5'	-8.87	87.16	104.00
6	A6	25	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	542	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	1085	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	1452	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	2153	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	4368	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	4737	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	5775	DT	O3'-P-O5'	-8.87	87.15	104.00
26	C1	7	DT	O3'-P-O5'	-8.87	87.16	104.00
55	E9	19	DC	O3'-P-O5'	-8.87	87.16	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1766	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	1950	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	2231	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	2274	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	2307	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2659	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	2367	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	2376	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	2460	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	2583	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	2722	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	2878	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	3045	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	3070	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	2933	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3258	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3499	DT	P-O3'-C3'	-8.86	109.06	119.70
11	AB	3585	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	3669	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	4033	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	4055	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	4463	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	4491	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	4707	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	5341	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	6859	DC	O3'-P-O5'	-8.87	87.15	104.00
11	AB	4713	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	5347	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	5504	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	5770	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	5984	DC	O3'-P-O5'	-8.87	87.16	104.00
11	AB	7221	DT	O3'-P-O5'	-8.87	87.16	104.00
124	KD	21	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	6252	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	6266	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	6274	DT	O3'-P-O5'	-8.87	87.16	104.00
11	AB	6292	DT	O3'-P-O5'	-8.87	87.16	104.00
43	D8	1	DT	O3'-P-O5'	-8.87	87.15	104.00
69	FD	33	DT	O3'-P-O5'	-8.87	87.15	104.00
227	VA	13	DT	O3'-P-O5'	-8.87	87.15	104.00
11	AB	6375	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	6635	DT	O3'-P-O5'	-8.86	87.16	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B6	4	DT	O3'-P-O5'	-8.86	87.16	104.00
20	B7	17	DC	O3'-P-O5'	-8.86	87.16	104.00
30	C6	4	DT	O3'-P-O5'	-8.87	87.16	104.00
33	C9	21	DT	O3'-P-O5'	-8.87	87.16	104.00
35	CC	10	DC	O3'-P-O5'	-8.86	87.16	104.00
35	CC	11	DC	O3'-P-O5'	-8.86	87.16	104.00
35	CC	25	DT	O3'-P-O5'	-8.86	87.16	104.00
39	D3	33	DC	O3'-P-O5'	-8.87	87.16	104.00
45	DA	15	DC	O3'-P-O5'	-8.87	87.16	104.00
52	E6	34	DC	O3'-P-O5'	-8.86	87.16	104.00
56	EA	6	DT	O3'-P-O5'	-8.87	87.16	104.00
77	G9	11	DC	O3'-P-O5'	-8.87	87.16	104.00
80	GD	17	DT	O3'-P-O5'	-8.87	87.16	104.00
126	L2	26	DC	O3'-P-O5'	-8.87	87.15	104.00
143	MA	31	DC	O3'-P-O5'	-8.87	87.16	104.00
191	RA	10	DC	O3'-P-O5'	-8.87	87.15	104.00
230	W3	2	DT	O3'-P-O5'	-8.87	87.16	104.00
93	I2	27	DT	O3'-P-O5'	-8.86	87.16	104.00
94	I3	3	DT	O3'-P-O5'	-8.86	87.16	104.00
125	L1	23	DT	O3'-P-O5'	-8.87	87.16	104.00
141	M8	25	DT	O3'-P-O5'	-8.86	87.16	104.00
147	N3	29	DC	O3'-P-O5'	-8.87	87.16	104.00
168	P5	4	DC	O3'-P-O5'	-8.87	87.16	104.00
211	TD	33	DT	O3'-P-O5'	-8.87	87.16	104.00
150	N7	10	DC	O3'-P-O5'	-8.86	87.16	104.00
152	N9	20	DT	O3'-P-O5'	-8.86	87.16	104.00
161	O8	47	DT	O3'-P-O5'	-8.86	87.16	104.00
166	P2	17	DT	O3'-P-O5'	-8.86	87.16	104.00
171	P8	22	DT	O3'-P-O5'	-8.86	87.16	104.00
178	Q5	25	DT	O3'-P-O5'	-8.86	87.16	104.00
191	RA	12	DC	O3'-P-O5'	-8.87	87.16	104.00
2	A2	28	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	489	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	981	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	1271	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	1778	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	2399	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3036	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3072	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	4345	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	4596	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	4826	DC	O3'-P-O5'	-8.86	87.16	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	ED	15	DT	O3'-P-O5'	-8.86	87.16	104.00
8	A8	12	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	174	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	683	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	1018	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	1595	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	1606	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	1650	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	1745	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	1914	DG	OP2-P-O3'	8.86	124.70	105.20
11	AB	3663	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	2293	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	2579	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3090	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3873	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	5360	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	5674	DT	O3'-P-O5'	-8.86	87.16	104.00
37	D1	33	DC	O3'-P-O5'	-8.86	87.16	104.00
113	JD	15	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3166	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3255	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3497	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3642	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3740	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	3980	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	4165	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	4699	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	4905	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	5362	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	5446	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	5495	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	5563	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	6193	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	6700	DT	O3'-P-O5'	-8.86	87.16	104.00
34	CA	6	DT	O3'-P-O5'	-8.86	87.16	104.00
43	D8	20	DC	O3'-P-O5'	-8.86	87.16	104.00
58	ED	5	DT	O3'-P-O5'	-8.86	87.16	104.00
152	N9	9	DT	O3'-P-O5'	-8.86	87.16	104.00
166	P2	29	DC	O3'-P-O5'	-8.86	87.16	104.00
179	Q7	10	DT	O3'-P-O5'	-8.86	87.16	104.00
237	X7	12	DC	O3'-P-O5'	-8.86	87.16	104.00
11	AB	6360	DT	O3'-P-O5'	-8.86	87.16	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6624	DT	O3'-P-O5'	-8.86	87.16	104.00
11	AB	7218	DC	O3'-P-O5'	-8.86	87.16	104.00
15	B2	12	DT	O3'-P-O5'	-8.86	87.16	104.00
22	B9	48	DT	O3'-P-O5'	-8.86	87.17	104.00
31	C7	27	DT	O3'-P-O5'	-8.86	87.16	104.00
43	D8	26	DC	O3'-P-O5'	-8.86	87.16	104.00
47	DD	19	DC	O3'-P-O5'	-8.86	87.16	104.00
50	E3	8	DT	O3'-P-O5'	-8.86	87.16	104.00
73	G5	12	DC	O3'-P-O5'	-8.86	87.16	104.00
73	G5	17	DT	O3'-P-O5'	-8.86	87.16	104.00
74	G6	16	DT	O3'-P-O5'	-8.86	87.16	104.00
82	H2	45	DT	O3'-P-O5'	-8.86	87.16	104.00
165	OD	53	DT	O3'-P-O5'	-8.86	87.16	104.00
181	Q9	38	DC	O3'-P-O5'	-8.86	87.16	104.00
74	G6	10	DT	O3'-P-O5'	-8.86	87.17	104.00
83	H3	8	DT	O3'-P-O5'	-8.86	87.16	104.00
85	H6	9	DC	O3'-P-O5'	-8.86	87.17	104.00
90	HC	9	DC	O3'-P-O5'	-8.86	87.16	104.00
96	I6	6	DT	O3'-P-O5'	-8.86	87.16	104.00
97	I7	15	DT	O3'-P-O5'	-8.86	87.16	104.00
106	J5	23	DC	O3'-P-O5'	-8.86	87.16	104.00
109	J8	22	DT	O3'-P-O5'	-8.86	87.16	104.00
130	L7	3	DT	O3'-P-O5'	-8.86	87.16	104.00
139	M6	6	DT	O3'-P-O5'	-8.86	87.16	104.00
143	MA	12	DC	O3'-P-O5'	-8.86	87.17	104.00
145	MD	29	DT	O3'-P-O5'	-8.86	87.16	104.00
149	N6	46	DC	O3'-P-O5'	-8.86	87.16	104.00
150	N7	9	DC	O3'-P-O5'	-8.86	87.16	104.00
167	P3	13	DT	O3'-P-O5'	-8.86	87.16	104.00
173	PA	24	DT	O3'-P-O5'	-8.86	87.16	104.00
176	Q2	17	DT	O3'-P-O5'	-8.86	87.16	104.00
184	QD	20	DC	O3'-P-O5'	-8.86	87.16	104.00
198	S8	18	DC	O3'-P-O5'	-8.86	87.16	104.00
200	SA	13	DC	O3'-P-O5'	-8.86	87.17	104.00
200	SA	14	DC	O3'-P-O5'	-8.86	87.16	104.00
212	U2	15	DT	O3'-P-O5'	-8.86	87.16	104.00
216	U8	20	DC	O3'-P-O5'	-8.86	87.17	104.00
219	UC	5	DC	O3'-P-O5'	-8.86	87.16	104.00
219	UC	15	DT	O3'-P-O5'	-8.86	87.17	104.00
228	VC	19	DC	O3'-P-O5'	-8.86	87.16	104.00
230	W3	32	DT	O3'-P-O5'	-8.86	87.16	104.00
2	A2	4	DC	O3'-P-O5'	-8.86	87.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	A8	14	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	2	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	11	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	290	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	1868	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3582	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4459	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	78	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	341	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	501	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	756	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	802	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	917	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5268	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	6108	DT	O3'-P-O5'	-8.86	87.17	104.00
217	U9	8	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	1107	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	1209	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	1412	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	2137	DT	O3'-P-O5'	-8.86	87.17	104.00
109	J8	36	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	1448	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	2928	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3048	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3093	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3403	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3492	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3534	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3882	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3990	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4058	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4128	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4163	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4304	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4567	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4609	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5943	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4643	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4982	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5102	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5174	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5339	DT	O3'-P-O5'	-8.86	87.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5629	DT	O3'-P-O5'	-8.86	87.17	104.00
96	I6	17	DC	O3'-P-O5'	-8.86	87.17	104.00
154	NC	27	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5753	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5835	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5867	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	6198	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	6367	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	7228	DC	O3'-P-O5'	-8.86	87.17	104.00
18	B5	27	DT	O3'-P-O5'	-8.86	87.17	104.00
29	C5	8	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	6622	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	6822	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	7051	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	7132	DT	O3'-P-O5'	-8.86	87.17	104.00
20	B7	10	DC	O3'-P-O5'	-8.86	87.17	104.00
60	F2	10	DT	O3'-P-O5'	-8.86	87.17	104.00
65	F8	9	DC	O3'-P-O5'	-8.86	87.17	104.00
24	BC	18	DT	O3'-P-O5'	-8.86	87.17	104.00
31	C7	24	DT	O3'-P-O5'	-8.86	87.17	104.00
64	F7	25	DT	O3'-P-O5'	-8.86	87.17	104.00
70	G1	17	DT	O3'-P-O5'	-8.86	87.17	104.00
122	KA	41	DC	O3'-P-O5'	-8.86	87.17	104.00
226	V9	30	DC	O3'-P-O5'	-8.86	87.17	104.00
32	C8	22	DC	O3'-P-O5'	-8.86	87.17	104.00
37	D1	8	DC	O3'-P-O5'	-8.86	87.17	104.00
37	D1	38	DT	O3'-P-O5'	-8.86	87.17	104.00
52	E6	20	DC	O3'-P-O5'	-8.86	87.17	104.00
48	E1	8	DC	O3'-P-O5'	-8.86	87.17	104.00
50	E3	12	DT	O3'-P-O5'	-8.86	87.17	104.00
75	G7	7	DT	O3'-P-O5'	-8.86	87.17	104.00
98	I8	16	DT	O3'-P-O5'	-8.86	87.17	104.00
100	IA	15	DT	O3'-P-O5'	-8.86	87.17	104.00
101	IC	22	DC	O3'-P-O5'	-8.86	87.17	104.00
197	S7	4	DC	O3'-P-O5'	-8.86	87.17	104.00
105	J3	15	DC	O3'-P-O5'	-8.86	87.17	104.00
122	KA	38	DT	O3'-P-O5'	-8.86	87.17	104.00
122	KA	47	DT	O3'-P-O5'	-8.86	87.17	104.00
126	L2	11	DT	O3'-P-O5'	-8.86	87.17	104.00
126	L2	21	DT	O3'-P-O5'	-8.86	87.17	104.00
127	L3	7	DT	O3'-P-O5'	-8.86	87.17	104.00
145	MD	49	DC	O3'-P-O5'	-8.86	87.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
154	NC	1	DC	O3'-P-O5'	-8.86	87.17	104.00
158	O5	8	DT	O3'-P-O5'	-8.86	87.17	104.00
158	O5	23	DT	O3'-P-O5'	-8.86	87.17	104.00
165	OD	27	DC	O3'-P-O5'	-8.86	87.17	104.00
171	P8	18	DT	O3'-P-O5'	-8.86	87.17	104.00
171	P8	19	DT	O3'-P-O5'	-8.86	87.17	104.00
172	P9	25	DC	O3'-P-O5'	-8.86	87.17	104.00
175	PD	5	DG	OP2-P-O3'	8.86	124.69	105.20
175	PD	18	DC	O3'-P-O5'	-8.86	87.17	104.00
179	Q7	23	DC	O3'-P-O5'	-8.86	87.17	104.00
189	R8	15	DC	O3'-P-O5'	-8.86	87.17	104.00
190	R9	38	DT	O3'-P-O5'	-8.86	87.17	104.00
206	T7	47	DT	O3'-P-O5'	-8.86	87.17	104.00
209	TA	35	DT	O3'-P-O5'	-8.86	87.17	104.00
211	TD	7	DT	O3'-P-O5'	-8.86	87.17	104.00
228	VC	31	DC	O3'-P-O5'	-8.86	87.17	104.00
238	X9	47	DT	O3'-P-O5'	-8.86	87.17	104.00
3	A3	7	DC	O3'-P-O5'	-8.86	87.17	104.00
4	A4	30	DT	O3'-P-O5'	-8.86	87.17	104.00
8	A8	8	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	67	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	202	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	235	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	300	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	1086	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	6325	DT	O3'-P-O5'	-8.86	87.17	104.00
82	H2	50	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	471	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	537	DC	O3'-P-O5'	-8.86	87.18	104.00
11	AB	949	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	1055	DT	O3'-P-O5'	-8.86	87.18	104.00
11	AB	1622	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	2315	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3969	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	1623	DC	O3'-P-O5'	-8.86	87.18	104.00
11	AB	1748	DT	O3'-P-O5'	-8.86	87.18	104.00
11	AB	2042	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	2131	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	2328	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	2351	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4157	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4206	DT	O3'-P-O5'	-8.86	87.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	E1	16	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	2578	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	2639	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3145	DC	O3'-P-O5'	-8.86	87.18	104.00
11	AB	3264	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3383	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3698	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	3791	DT	O3'-P-O5'	-8.86	87.18	104.00
11	AB	4014	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4134	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4249	DG	OP2-P-O3'	8.86	124.68	105.20
11	AB	4487	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4564	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4598	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4815	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4897	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	4974	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5402	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5605	DC	O3'-P-O5'	-8.86	87.17	104.00
22	B9	39	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5526	DC	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5618	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5646	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	5670	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	6034	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	6149	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	6783	DT	O3'-P-O5'	-8.86	87.17	104.00
22	B9	5	DC	O3'-P-O5'	-8.86	87.17	104.00
137	M3	29	DC	O3'-P-O5'	-8.86	87.17	104.00
146	N2	23	DC	O3'-P-O5'	-8.86	87.17	104.00
192	RC	15	DT	O3'-P-O5'	-8.86	87.17	104.00
11	AB	7005	DT	O3'-P-O5'	-8.86	87.18	104.00
11	AB	7155	DC	O3'-P-O5'	-8.86	87.17	104.00
15	B2	18	DT	O3'-P-O5'	-8.86	87.17	104.00
30	C6	11	DC	O3'-P-O5'	-8.86	87.17	104.00
35	CC	19	DT	O3'-P-O5'	-8.86	87.17	104.00
46	DC	10	DT	O3'-P-O5'	-8.86	87.17	104.00
138	M5	1	DC	O3'-P-O5'	-8.86	87.17	104.00
33	C9	15	DT	O3'-P-O5'	-8.86	87.18	104.00
47	DD	10	DC	O3'-P-O5'	-8.86	87.17	104.00
52	E6	10	DT	O3'-P-O5'	-8.86	87.17	104.00
82	H2	18	DC	O3'-P-O5'	-8.86	87.18	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
84	H5	16	DT	O3'-P-O5'	-8.86	87.17	104.00
145	MD	40	DC	O3'-P-O5'	-8.86	87.17	104.00
84	H5	34	DC	O3'-P-O5'	-8.86	87.17	104.00
85	H6	10	DC	O3'-P-O5'	-8.86	87.17	104.00
95	I5	4	DT	O3'-P-O5'	-8.86	87.18	104.00
103	J1	2	DC	O3'-P-O5'	-8.86	87.17	104.00
108	J7	25	DT	O3'-P-O5'	-8.86	87.17	104.00
108	J7	37	DT	O3'-P-O5'	-8.86	87.17	104.00
117	K5	47	DC	O3'-P-O5'	-8.86	87.17	104.00
181	Q9	33	DT	O3'-P-O5'	-8.86	87.17	104.00
238	X9	41	DT	O3'-P-O5'	-8.86	87.17	104.00
139	M6	22	DC	O3'-P-O5'	-8.86	87.17	104.00
150	N7	11	DC	O3'-P-O5'	-8.86	87.18	104.00
151	N8	13	DT	O3'-P-O5'	-8.86	87.17	104.00
162	O9	7	DC	O3'-P-O5'	-8.86	87.18	104.00
162	O9	17	DC	O3'-P-O5'	-8.86	87.18	104.00
164	OC	15	DC	O3'-P-O5'	-8.86	87.17	104.00
166	P2	34	DT	O3'-P-O5'	-8.86	87.17	104.00
168	P5	1	DC	O3'-P-O5'	-8.86	87.18	104.00
173	PA	25	DT	O3'-P-O5'	-8.86	87.17	104.00
184	QD	4	DC	O3'-P-O5'	-8.86	87.17	104.00
185	R2	12	DC	O3'-P-O5'	-8.86	87.17	104.00
197	S7	11	DC	O3'-P-O5'	-8.86	87.18	104.00
204	T3	25	DC	O3'-P-O5'	-8.86	87.17	104.00
205	T5	3	DC	O3'-P-O5'	-8.86	87.18	104.00
212	U2	6	DT	O3'-P-O5'	-8.86	87.18	104.00
227	VA	16	DC	O3'-P-O5'	-8.86	87.17	104.00
9	A9	2	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	49	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	55	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	515	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	711	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	818	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	1359	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	2750	DT	O3'-P-O5'	-8.85	87.18	104.00
24	BC	40	DC	O3'-P-O5'	-8.85	87.18	104.00
7	A7	25	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	491	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	564	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	1127	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	1293	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	2053	DC	O3'-P-O5'	-8.85	87.18	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2255	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	4065	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	4715	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	4817	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	5570	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6471	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	7007	DT	O3'-P-O5'	-8.85	87.18	104.00
18	B5	5	DC	O3'-P-O5'	-8.85	87.18	104.00
162	O9	16	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	1247	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	1268	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	1438	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	1657	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	1895	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	2229	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	2287	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	2561	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	3201	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	5145	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	5349	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	5653	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6038	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6908	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	7162	DT	O3'-P-O5'	-8.85	87.18	104.00
22	B9	15	DC	O3'-P-O5'	-8.85	87.18	104.00
104	J2	41	DT	O3'-P-O5'	-8.85	87.18	104.00
138	M5	10	DT	O3'-P-O5'	-8.85	87.18	104.00
162	O9	19	DT	O3'-P-O5'	-8.85	87.18	104.00
169	P6	21	DT	O3'-P-O5'	-8.85	87.18	104.00
171	P8	23	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	2457	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	2466	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	2605	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	3551	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	3579	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	3654	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	3812	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	5869	DC	O3'-P-O5'	-8.85	87.18	104.00
89	HA	32	DC	O3'-P-O5'	-8.85	87.18	104.00
107	J6	24	DT	O3'-P-O5'	-8.85	87.18	104.00
113	JD	31	DC	O3'-P-O5'	-8.85	87.18	104.00
147	N3	23	DC	O3'-P-O5'	-8.85	87.18	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
161	O8	26	DC	O3'-P-O5'	-8.85	87.18	104.00
167	P3	32	DC	O3'-P-O5'	-8.85	87.18	104.00
228	VC	2	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	3976	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	4135	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	4148	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	4194	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	4258	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	4818	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	5550	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	5177	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	5498	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	5736	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	5868	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6046	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6335	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6468	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6548	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6701	DT	O3'-P-O5'	-8.85	87.18	104.00
37	D1	5	DT	O3'-P-O5'	-8.85	87.18	104.00
83	H3	17	DT	O3'-P-O5'	-8.85	87.18	104.00
191	RA	11	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6786	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6887	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	7099	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	7105	DT	O3'-P-O5'	-8.85	87.18	104.00
11	AB	7146	DC	O3'-P-O5'	-8.85	87.18	104.00
22	B9	32	DC	O3'-P-O5'	-8.85	87.18	104.00
96	I6	11	DT	O3'-P-O5'	-8.85	87.18	104.00
121	K9	14	DT	O3'-P-O5'	-8.85	87.18	104.00
32	C8	2	DT	O3'-P-O5'	-8.85	87.18	104.00
32	C8	26	DC	O3'-P-O5'	-8.85	87.18	104.00
59	F1	10	DC	O3'-P-O5'	-8.85	87.18	104.00
62	F5	46	DT	O3'-P-O5'	-8.85	87.18	104.00
72	G3	24	DC	O3'-P-O5'	-8.85	87.18	104.00
83	H3	1	DC	O3'-P-O5'	-8.85	87.18	104.00
88	H9	2	DT	O3'-P-O5'	-8.85	87.18	104.00
95	I5	26	DT	O3'-P-O5'	-8.85	87.18	104.00
107	J6	36	DT	O3'-P-O5'	-8.85	87.18	104.00
117	K5	6	DT	O3'-P-O5'	-8.85	87.18	104.00
117	K5	28	DC	O3'-P-O5'	-8.85	87.18	104.00
122	KA	20	DT	O3'-P-O5'	-8.85	87.18	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
140	M7	8	DC	O3'-P-O5'	-8.85	87.18	104.00
165	OD	18	DT	O3'-P-O5'	-8.85	87.18	104.00
223	V5	1	DC	O3'-P-O5'	-8.85	87.18	104.00
131	L8	7	DC	O3'-P-O5'	-8.85	87.18	104.00
132	L9	1	DT	O3'-P-O5'	-8.85	87.18	104.00
143	MA	38	DC	O3'-P-O5'	-8.85	87.18	104.00
147	N3	17	DC	O3'-P-O5'	-8.85	87.18	104.00
159	O6	17	DT	O3'-P-O5'	-8.85	87.18	104.00
148	N5	25	DT	O3'-P-O5'	-8.85	87.18	104.00
187	R5	6	DC	O3'-P-O5'	-8.85	87.18	104.00
228	VC	30	DC	O3'-P-O5'	-8.85	87.18	104.00
189	R8	9	DT	O3'-P-O5'	-8.85	87.18	104.00
196	S5	20	DC	O3'-P-O5'	-8.85	87.18	104.00
211	TD	34	DT	O3'-P-O5'	-8.85	87.18	104.00
224	V7	19	DT	O3'-P-O5'	-8.85	87.18	104.00
229	VD	3	DC	O3'-P-O5'	-8.85	87.18	104.00
230	W3	6	DC	O3'-P-O5'	-8.85	87.18	104.00
1	A1	1	DT	O3'-P-O5'	-8.85	87.19	104.00
5	A5	31	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	291	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	840	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	1202	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	1243	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	1609	DT	O3'-P-O5'	-8.85	87.18	104.00
41	D6	41	DT	O3'-P-O5'	-8.85	87.19	104.00
215	U7	11	DG	OP2-P-O3'	8.85	124.67	105.20
11	AB	1239	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	1366	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	1658	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	1673	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	1759	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	1975	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	2162	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	2280	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	2589	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	2758	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	3339	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	3489	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4252	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4298	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	7245	DC	O3'-P-O5'	-8.85	87.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3537	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4142	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4185	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4193	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4477	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4568	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4706	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5078	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5186	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5187	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5282	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5331	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5355	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5418	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6054	DT	O3'-P-O5'	-8.85	87.19	104.00
93	I2	48	DC	O3'-P-O5'	-8.85	87.19	104.00
107	J6	2	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5356	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5568	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5677	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5799	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6134	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6203	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6378	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6407	DC	O3'-P-O5'	-8.85	87.18	104.00
11	AB	6528	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6605	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6762	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6834	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6920	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6980	DC	O3'-P-O5'	-8.85	87.19	104.00
19	B6	23	DT	O3'-P-O5'	-8.85	87.19	104.00
90	HC	12	DC	O3'-P-O5'	-8.85	87.19	104.00
157	O3	6	DC	O3'-P-O5'	-8.85	87.19	104.00
15	B2	21	DC	O3'-P-O5'	-8.85	87.19	104.00
24	BC	30	DC	O3'-P-O5'	-8.85	87.19	104.00
26	C1	1	DC	O3'-P-O5'	-8.85	87.19	104.00
32	C8	29	DC	O3'-P-O5'	-8.85	87.19	104.00
37	D1	18	DC	O3'-P-O5'	-8.85	87.19	104.00
37	D1	21	DC	O3'-P-O5'	-8.85	87.19	104.00
37	D1	24	DC	O3'-P-O5'	-8.85	87.19	104.00
38	D2	15	DC	O3'-P-O5'	-8.85	87.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	D8	3	DT	O3'-P-O5'	-8.85	87.19	104.00
47	DD	36	DT	O3'-P-O5'	-8.85	87.19	104.00
47	DD	44	DC	O3'-P-O5'	-8.85	87.19	104.00
49	E2	1	DC	O3'-P-O5'	-8.85	87.19	104.00
52	E6	23	DC	O3'-P-O5'	-8.85	87.19	104.00
56	EA	18	DC	O3'-P-O5'	-8.85	87.19	104.00
61	F3	20	DC	O3'-P-O5'	-8.85	87.19	104.00
67	FA	16	DT	O3'-P-O5'	-8.85	87.19	104.00
73	G5	2	DC	O3'-P-O5'	-8.85	87.19	104.00
81	H1	19	DT	O3'-P-O5'	-8.85	87.19	104.00
84	H5	23	DC	O3'-P-O5'	-8.85	87.19	104.00
92	I1	10	DT	O3'-P-O5'	-8.85	87.19	104.00
125	L1	40	DC	O3'-P-O5'	-8.85	87.18	104.00
173	PA	32	DT	O3'-P-O5'	-8.85	87.19	104.00
86	H7	22	DC	O3'-P-O5'	-8.85	87.19	104.00
111	JA	17	DC	O3'-P-O5'	-8.85	87.19	104.00
122	KA	40	DC	O3'-P-O5'	-8.85	87.19	104.00
135	LD	19	DT	O3'-P-O5'	-8.85	87.19	104.00
152	N9	36	DT	O3'-P-O5'	-8.85	87.19	104.00
157	O3	16	DT	O3'-P-O5'	-8.85	87.19	104.00
161	O8	7	DT	O3'-P-O5'	-8.85	87.19	104.00
166	P2	30	DC	O3'-P-O5'	-8.85	87.19	104.00
173	PA	9	DC	O3'-P-O5'	-8.85	87.19	104.00
203	T2	19	DT	O3'-P-O5'	-8.85	87.18	104.00
177	Q3	8	DC	O3'-P-O5'	-8.85	87.19	104.00
178	Q5	6	DC	O3'-P-O5'	-8.85	87.19	104.00
209	TA	21	DC	O3'-P-O5'	-8.85	87.19	104.00
211	TD	2	DT	O3'-P-O5'	-8.85	87.19	104.00
4	A4	32	DT	O3'-P-O5'	-8.85	87.19	104.00
9	A9	12	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	461	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	843	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	1289	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	2149	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	2394	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4969	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4987	DC	O3'-P-O5'	-8.85	87.19	104.00
30	C6	18	DC	O3'-P-O5'	-8.85	87.19	104.00
106	J5	15	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	493	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	534	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	1027	DC	O3'-P-O5'	-8.85	87.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1879	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	2082	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	2476	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	2571	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	2939	DC	O3'-P-O5'	-8.85	87.19	104.00
88	H9	28	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	3054	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	3060	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	3227	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	3712	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	3749	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4052	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4069	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4162	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4167	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4580	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5531	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6369	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6680	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	6843	DT	O3'-P-O5'	-8.85	87.19	104.00
149	N6	11	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4444	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	4602	DG	OP2-P-O3'	8.85	124.66	105.20
11	AB	4915	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5025	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	5033	DC	O3'-P-O5'	-8.85	87.19	104.00
11	AB	7152	DT	O3'-P-O5'	-8.85	87.19	104.00
11	AB	7227	DC	O3'-P-O5'	-8.85	87.19	104.00
37	D1	25	DC	O3'-P-O5'	-8.85	87.19	104.00
43	D8	23	DC	O3'-P-O5'	-8.85	87.19	104.00
48	E1	24	DC	O3'-P-O5'	-8.85	87.19	104.00
59	F1	7	DC	O3'-P-O5'	-8.85	87.19	104.00
84	H5	24	DC	O3'-P-O5'	-8.85	87.19	104.00
104	J2	10	DC	O3'-P-O5'	-8.85	87.19	104.00
109	J8	51	DT	O3'-P-O5'	-8.85	87.19	104.00
113	JD	20	DT	O3'-P-O5'	-8.85	87.19	104.00
119	K7	30	DT	O3'-P-O5'	-8.85	87.19	104.00
126	L2	39	DC	O3'-P-O5'	-8.85	87.19	104.00
136	M2	10	DT	O3'-P-O5'	-8.85	87.19	104.00
167	P3	22	DC	O3'-P-O5'	-8.85	87.19	104.00
132	L9	8	DT	O3'-P-O5'	-8.85	87.19	104.00
141	M8	18	DC	O3'-P-O5'	-8.85	87.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
143	MA	21	DC	O3'-P-O5'	-8.85	87.19	104.00
149	N6	29	DT	O3'-P-O5'	-8.85	87.19	104.00
158	O5	19	DC	O3'-P-O5'	-8.85	87.19	104.00
170	P7	15	DT	O3'-P-O5'	-8.85	87.19	104.00
172	P9	21	DC	O3'-P-O5'	-8.85	87.19	104.00
187	R5	5	DC	O3'-P-O5'	-8.85	87.19	104.00
187	R5	11	DC	O3'-P-O5'	-8.85	87.19	104.00
187	R5	33	DC	O3'-P-O5'	-8.85	87.19	104.00
217	U9	21	DG	OP2-P-O3'	8.85	124.66	105.20
228	VC	27	DT	O3'-P-O5'	-8.85	87.19	104.00
238	X9	35	DC	O3'-P-O5'	-8.85	87.19	104.00
8	A8	21	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	378	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	738	DG	OP2-P-O3'	8.84	124.66	105.20
11	AB	2303	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	2774	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	3056	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	3140	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	3956	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4866	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	5159	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	5543	DT	O3'-P-O5'	-8.84	87.20	104.00
60	F2	13	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	773	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	2240	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	2770	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	2924	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	3051	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	3918	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4001	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4231	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4496	DG	OP2-P-O3'	8.84	124.66	105.20
11	AB	4575	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4725	DG	OP2-P-O3'	8.84	124.65	105.20
11	AB	4729	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4791	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4934	DC	O3'-P-O5'	-8.84	87.20	104.00
104	J2	7	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4935	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4968	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	5103	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	5348	DT	O3'-P-O5'	-8.84	87.20	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5379	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	5741	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	5886	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	6074	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	7073	DC	O3'-P-O5'	-8.84	87.19	104.00
18	B5	4	DC	O3'-P-O5'	-8.84	87.20	104.00
230	W3	33	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	6379	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	6475	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	6684	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	6899	DC	O3'-P-O5'	-8.84	87.20	104.00
40	D5	22	DT	O3'-P-O5'	-8.84	87.20	104.00
20	B7	18	DC	O3'-P-O5'	-8.84	87.20	104.00
34	CA	3	DT	O3'-P-O5'	-8.84	87.20	104.00
43	D8	12	DT	O3'-P-O5'	-8.84	87.20	104.00
37	D1	17	DG	OP2-P-O3'	8.84	124.65	105.20
43	D8	17	DC	O3'-P-O5'	-8.84	87.20	104.00
49	E2	35	DT	O3'-P-O5'	-8.84	87.20	104.00
52	E6	31	DC	O3'-P-O5'	-8.84	87.20	104.00
59	F1	8	DC	O3'-P-O5'	-8.84	87.20	104.00
60	F2	1	DC	O3'-P-O5'	-8.84	87.20	104.00
77	G9	3	DT	O3'-P-O5'	-8.84	87.20	104.00
85	H6	22	DC	O3'-P-O5'	-8.84	87.20	104.00
87	H8	11	DC	O3'-P-O5'	-8.84	87.20	104.00
94	I3	27	DC	O3'-P-O5'	-8.84	87.20	104.00
94	I3	55	DG	OP2-P-O3'	8.84	124.65	105.20
104	J2	29	DC	O3'-P-O5'	-8.84	87.20	104.00
105	J3	21	DT	O3'-P-O5'	-8.84	87.20	104.00
114	K1	20	DT	O3'-P-O5'	-8.84	87.20	104.00
115	K2	18	DC	O3'-P-O5'	-8.84	87.20	104.00
126	L2	28	DC	O3'-P-O5'	-8.84	87.20	104.00
127	L3	1	DC	O3'-P-O5'	-8.84	87.20	104.00
128	L5	20	DC	O3'-P-O5'	-8.84	87.20	104.00
134	LC	7	DC	O3'-P-O5'	-8.84	87.20	104.00
145	MD	50	DC	O3'-P-O5'	-8.84	87.20	104.00
150	N7	18	DC	O3'-P-O5'	-8.84	87.20	104.00
151	N8	5	DC	O3'-P-O5'	-8.84	87.20	104.00
155	ND	1	DT	O3'-P-O5'	-8.84	87.20	104.00
161	O8	16	DC	O3'-P-O5'	-8.84	87.20	104.00
164	OC	27	DT	O3'-P-O5'	-8.84	87.20	104.00
177	Q3	25	DT	O3'-P-O5'	-8.84	87.20	104.00
169	P6	19	DC	O3'-P-O5'	-8.84	87.20	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
180	Q8	21	DC	O3'-P-O5'	-8.84	87.20	104.00
195	S3	20	DT	O3'-P-O5'	-8.84	87.20	104.00
212	U2	25	DC	O3'-P-O5'	-8.84	87.20	104.00
230	W3	16	DC	O3'-P-O5'	-8.84	87.20	104.00
10	AA	18	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	99	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	228	DG	OP2-P-O3'	8.84	124.65	105.20
11	AB	296	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	337	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	495	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	554	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	555	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	834	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	928	DG	OP2-P-O3'	8.84	124.65	105.20
11	AB	1213	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	1334	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	2245	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	3193	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	3473	DG	OP2-P-O3'	8.84	124.65	105.20
11	AB	3958	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4116	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4195	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	5039	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	5391	DG	OP2-P-O3'	8.84	124.65	105.20
11	AB	5408	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	5794	DC	O3'-P-O5'	-8.84	87.20	104.00
83	H3	9	DT	O3'-P-O5'	-8.84	87.20	104.00
85	H6	23	DC	O3'-P-O5'	-8.84	87.20	104.00
104	J2	4	DC	O3'-P-O5'	-8.84	87.20	104.00
122	KA	9	DT	O3'-P-O5'	-8.84	87.20	104.00
139	M6	15	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	3461	DG	OP2-P-O3'	8.84	124.64	105.20
11	AB	4025	DG	OP2-P-O3'	8.84	124.65	105.20
11	AB	4220	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	5085	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4642	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	4732	DG	OP2-P-O3'	8.84	124.65	105.20
11	AB	4898	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	4906	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	6485	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	7205	DC	O3'-P-O5'	-8.84	87.20	104.00
58	ED	22	DC	O3'-P-O5'	-8.84	87.20	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5701	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	5749	DG	OP2-P-O3'	8.84	124.65	105.20
11	AB	6294	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	6354	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	6886	DC	O3'-P-O5'	-8.84	87.20	104.00
36	CD	11	DC	O3'-P-O5'	-8.84	87.20	104.00
107	J6	1	DC	O3'-P-O5'	-8.84	87.20	104.00
137	M3	24	DC	O3'-P-O5'	-8.84	87.20	104.00
225	V8	18	DT	O3'-P-O5'	-8.84	87.20	104.00
11	AB	7138	DC	O3'-P-O5'	-8.84	87.20	104.00
11	AB	7172	DC	O3'-P-O5'	-8.84	87.21	104.00
28	C3	9	DT	O3'-P-O5'	-8.84	87.21	104.00
46	DC	20	DG	OP2-P-O3'	8.84	124.65	105.20
62	F5	19	DC	O3'-P-O5'	-8.84	87.20	104.00
71	G2	5	DC	O3'-P-O5'	-8.84	87.21	104.00
84	H5	21	DC	O3'-P-O5'	-8.84	87.21	104.00
94	I3	48	DC	O3'-P-O5'	-8.84	87.20	104.00
112	JC	4	DG	OP2-P-O3'	8.84	124.65	105.20
156	O2	52	DC	O3'-P-O5'	-8.84	87.20	104.00
167	P3	21	DC	O3'-P-O5'	-8.84	87.20	104.00
180	Q8	12	DC	O3'-P-O5'	-8.84	87.20	104.00
117	K5	21	DC	O3'-P-O5'	-8.84	87.20	104.00
134	LC	21	DC	O3'-P-O5'	-8.84	87.21	104.00
139	M6	23	DC	O3'-P-O5'	-8.84	87.21	104.00
145	MD	41	DC	O3'-P-O5'	-8.84	87.21	104.00
160	O7	20	DC	O3'-P-O5'	-8.84	87.21	104.00
166	P2	32	DC	O3'-P-O5'	-8.84	87.20	104.00
167	P3	27	DT	O3'-P-O5'	-8.84	87.20	104.00
170	P7	19	DT	O3'-P-O5'	-8.84	87.20	104.00
197	S7	12	DC	O3'-P-O5'	-8.84	87.20	104.00
190	R9	16	DT	O3'-P-O5'	-8.84	87.21	104.00
196	S5	16	DC	O3'-P-O5'	-8.84	87.21	104.00
197	S7	20	DC	O3'-P-O5'	-8.84	87.20	104.00
199	S9	11	DC	O3'-P-O5'	-8.84	87.20	104.00
4	A4	12	DC	O3'-P-O5'	-8.84	87.21	104.00
2	A2	13	DC	O3'-P-O5'	-8.84	87.21	104.00
7	A7	15	DG	OP2-P-O3'	8.84	124.64	105.20
11	AB	477	DT	O3'-P-O5'	-8.84	87.21	104.00
11	AB	1465	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	3428	DT	O3'-P-O5'	-8.84	87.21	104.00
6	A6	29	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	86	DG	OP2-P-O3'	8.84	124.64	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	95	DT	O3'-P-O5'	-8.84	87.21	104.00
11	AB	442	DG	OP2-P-O3'	8.84	124.64	105.20
11	AB	3975	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	4105	DG	OP2-P-O3'	8.84	124.64	105.20
11	AB	4260	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	4324	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	4480	DG	OP2-P-O3'	8.84	124.64	105.20
11	AB	4908	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	4937	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	5154	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	5525	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	5548	DG	OP2-P-O3'	8.84	124.64	105.20
11	AB	5849	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	5969	DT	O3'-P-O5'	-8.84	87.21	104.00
13	AD	28	DG	OP2-P-O3'	8.84	124.64	105.20
23	BA	8	DC	O3'-P-O5'	-8.84	87.21	104.00
39	D3	8	DC	O3'-P-O5'	-8.84	87.21	104.00
48	E1	12	DG	OP2-P-O3'	8.84	124.64	105.20
52	E6	30	DG	OP2-P-O3'	8.84	124.64	105.20
173	PA	10	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	509	DT	O3'-P-O5'	-8.84	87.21	104.00
11	AB	752	DT	O3'-P-O5'	-8.84	87.21	104.00
11	AB	1175	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	2617	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	3607	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	4402	DT	O3'-P-O5'	-8.84	87.21	104.00
11	AB	4540	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	6613	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	4839	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	5254	DC	O3'-P-O5'	-8.84	87.21	104.00
11	AB	6631	DC	O3'-P-O5'	-8.84	87.21	104.00
47	DD	38	DG	OP2-P-O3'	8.84	124.64	105.20
143	MA	26	DC	O3'-P-O5'	-8.84	87.21	104.00
166	P2	31	DC	O3'-P-O5'	-8.84	87.21	104.00
37	D1	9	DC	O3'-P-O5'	-8.84	87.21	104.00
44	D9	28	DC	O3'-P-O5'	-8.84	87.21	104.00
45	DA	18	DC	O3'-P-O5'	-8.84	87.21	104.00
53	E7	11	DG	OP2-P-O3'	8.84	124.64	105.20
54	E8	7	DT	O3'-P-O5'	-8.84	87.21	104.00
57	EC	15	DC	O3'-P-O5'	-8.84	87.21	104.00
59	F1	9	DC	O3'-P-O5'	-8.84	87.21	104.00
64	F7	8	DT	O3'-P-O5'	-8.84	87.21	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	F7	28	DT	O3'-P-O5'	-8.84	87.21	104.00
84	H5	35	DC	O3'-P-O5'	-8.84	87.21	104.00
69	FD	16	DC	O3'-P-O5'	-8.84	87.21	104.00
117	K5	19	DC	O3'-P-O5'	-8.84	87.21	104.00
164	OC	12	DC	O3'-P-O5'	-8.84	87.21	104.00
182	QA	12	DT	O3'-P-O5'	-8.84	87.21	104.00
195	S3	2	DG	OP2-P-O3'	8.84	124.64	105.20
219	UC	19	DT	O3'-P-O5'	-8.84	87.21	104.00
224	V7	5	DC	O3'-P-O5'	-8.84	87.21	104.00
236	X5	6	DC	O3'-P-O5'	-8.84	87.21	104.00
236	X5	17	DC	O3'-P-O5'	-8.84	87.21	104.00
2	A2	29	DT	O3'-P-O5'	-8.83	87.22	104.00
11	AB	117	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	830	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	2052	DA	P-O3'-C3'	-8.83	109.10	119.70
11	AB	2273	DG	OP2-P-O3'	8.83	124.64	105.20
11	AB	2902	DT	O3'-P-O5'	-8.83	87.22	104.00
11	AB	3378	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	7206	DC	O3'-P-O5'	-8.83	87.22	104.00
13	AD	14	DG	OP2-P-O3'	8.83	124.64	105.20
70	G1	14	DC	O3'-P-O5'	-8.83	87.22	104.00
126	L2	42	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	457	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	536	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	6117	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	727	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	1248	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	2413	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	3062	DT	O3'-P-O5'	-8.83	87.22	104.00
11	AB	4597	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	3514	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	4064	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	4920	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	4967	DG	OP2-P-O3'	8.83	124.63	105.20
41	D6	44	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	4981	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	4986	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	5702	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	5864	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	6216	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	6694	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	5895	DT	O3'-P-O5'	-8.83	87.22	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6554	DC	O3'-P-O5'	-8.83	87.22	104.00
17	B4	11	DG	OP2-P-O3'	8.83	124.64	105.20
82	H2	19	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	7165	DC	O3'-P-O5'	-8.83	87.22	104.00
54	E8	9	DT	O3'-P-O5'	-8.83	87.22	104.00
67	FA	18	DG	OP2-P-O3'	8.83	124.63	105.20
84	H5	22	DC	O3'-P-O5'	-8.83	87.22	104.00
90	HC	13	DC	O3'-P-O5'	-8.83	87.22	104.00
117	K5	3	DG	OP2-P-O3'	8.83	124.64	105.20
117	K5	22	DC	O3'-P-O5'	-8.83	87.22	104.00
118	K6	15	DC	O3'-P-O5'	-8.83	87.22	104.00
130	L7	18	DT	O3'-P-O5'	-8.83	87.22	104.00
151	N8	16	DC	O3'-P-O5'	-8.83	87.22	104.00
180	Q8	5	DG	OP2-P-O3'	8.83	124.64	105.20
180	Q8	10	DG	OP2-P-O3'	8.83	124.63	105.20
204	T3	6	DC	O3'-P-O5'	-8.83	87.22	104.00
205	T5	17	DC	O3'-P-O5'	-8.83	87.21	104.00
154	NC	30	DG	OP2-P-O3'	8.83	124.63	105.20
159	O6	8	DC	O3'-P-O5'	-8.83	87.22	104.00
178	Q5	3	DC	O3'-P-O5'	-8.83	87.22	104.00
190	R9	3	DT	O3'-P-O5'	-8.83	87.22	104.00
190	R9	29	DC	O3'-P-O5'	-8.83	87.22	104.00
192	RC	34	DC	O3'-P-O5'	-8.83	87.22	104.00
204	T3	8	DC	O3'-P-O5'	-8.83	87.22	104.00
205	T5	16	DC	O3'-P-O5'	-8.83	87.22	104.00
214	U5	9	DC	O3'-P-O5'	-8.83	87.22	104.00
219	UC	24	DC	O3'-P-O5'	-8.83	87.22	104.00
221	V2	19	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	42	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	715	DT	O3'-P-O5'	-8.83	87.22	104.00
11	AB	4219	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	4936	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	5756	DG	OP2-P-O3'	8.83	124.63	105.20
1	A1	20	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	516	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	6826	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	967	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	1161	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	1474	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	1923	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	2035	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	4188	DG	OP2-P-O3'	8.83	124.63	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	C1	2	DC	O3'-P-O5'	-8.83	87.22	104.00
56	EA	21	DC	O3'-P-O5'	-8.83	87.22	104.00
93	I2	25	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	1967	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	2054	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	4859	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	2851	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	3106	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	3370	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	4390	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	5884	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	3479	DT	O3'-P-O5'	-8.83	87.22	104.00
11	AB	3986	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	4154	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	4297	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	4388	DA	P-O3'-C3'	-8.83	109.11	119.70
11	AB	4757	DG	OP2-P-O3'	8.83	124.63	105.20
11	AB	4996	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	5591	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	5620	DC	O3'-P-O5'	-8.83	87.22	104.00
114	K1	3	DT	O3'-P-O5'	-8.83	87.22	104.00
11	AB	5764	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	6058	DC	O3'-P-O5'	-8.83	87.22	104.00
191	RA	13	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	6526	DC	O3'-P-O5'	-8.83	87.22	104.00
11	AB	6704	DT	O3'-P-O5'	-8.83	87.22	104.00
17	B4	12	DC	O3'-P-O5'	-8.83	87.22	104.00
50	E3	4	DG	OP2-P-O3'	8.83	124.63	105.20
52	E6	17	DC	O3'-P-O5'	-8.83	87.23	104.00
58	ED	29	DG	OP2-P-O3'	8.83	124.62	105.20
100	IA	8	DC	O3'-P-O5'	-8.83	87.22	104.00
103	J1	13	DG	OP2-P-O3'	8.83	124.62	105.20
117	K5	27	DG	OP2-P-O3'	8.83	124.63	105.20
119	K7	17	DC	O3'-P-O5'	-8.83	87.22	104.00
125	L1	55	DG	OP2-P-O3'	8.83	124.62	105.20
146	N2	22	DG	OP2-P-O3'	8.83	124.63	105.20
158	O5	50	DG	OP2-P-O3'	8.83	124.63	105.20
168	P5	3	DG	OP2-P-O3'	8.83	124.63	105.20
197	S7	7	DC	O3'-P-O5'	-8.83	87.22	104.00
213	U3	19	DG	OP2-P-O3'	8.83	124.63	105.20
160	O7	29	DC	O3'-P-O5'	-8.83	87.23	104.00
187	R5	41	DC	O3'-P-O5'	-8.83	87.22	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
199	S9	10	DG	OP2-P-O3'	8.83	124.63	105.20
2	A2	12	DC	O3'-P-O5'	-8.83	87.23	104.00
11	AB	114	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	127	DC	O3'-P-O5'	-8.83	87.23	104.00
11	AB	427	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	993	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	1789	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	3779	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	3803	DC	O3'-P-O5'	-8.83	87.23	104.00
11	AB	3998	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	4133	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	5277	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	6047	DT	O3'-P-O5'	-8.83	87.23	104.00
82	H2	39	DC	O3'-P-O5'	-8.83	87.23	104.00
108	J7	50	DC	O3'-P-O5'	-8.83	87.23	104.00
227	VA	20	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	1922	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	2436	DC	O3'-P-O5'	-8.83	87.23	104.00
11	AB	4004	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	4076	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	4909	DC	O3'-P-O5'	-8.83	87.23	104.00
11	AB	5051	DC	O3'-P-O5'	-8.83	87.23	104.00
11	AB	5101	DC	O3'-P-O5'	-8.83	87.23	104.00
11	AB	5967	DT	O3'-P-O5'	-8.83	87.23	104.00
27	C2	11	DC	O3'-P-O5'	-8.83	87.23	104.00
52	E6	22	DC	O3'-P-O5'	-8.83	87.23	104.00
109	J8	34	DG	OP2-P-O3'	8.83	124.62	105.20
119	K7	3	DG	OP2-P-O3'	8.83	124.62	105.20
164	OC	23	DC	O3'-P-O5'	-8.83	87.23	104.00
11	AB	5135	DC	O3'-P-O5'	-8.83	87.23	104.00
11	AB	5468	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	5848	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	6057	DG	OP2-P-O3'	8.83	124.62	105.20
24	BC	9	DC	O3'-P-O5'	-8.83	87.23	104.00
11	AB	6630	DG	OP2-P-O3'	8.83	124.62	105.20
11	AB	7231	DG	OP2-P-O3'	8.83	124.62	105.20
13	AD	33	DG	OP2-P-O3'	8.83	124.62	105.20
20	B7	9	DG	OP2-P-O3'	8.83	124.62	105.20
41	D6	3	DG	OP2-P-O3'	8.83	124.62	105.20
46	DC	16	DG	OP2-P-O3'	8.83	124.62	105.20
60	F2	6	DC	O3'-P-O5'	-8.83	87.23	104.00
70	G1	6	DG	OP2-P-O3'	8.83	124.62	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
82	H2	38	DG	OP2-P-O3'	8.83	124.62	105.20
108	J7	15	DC	O3'-P-O5'	-8.83	87.23	104.00
110	J9	6	DA	P-O3'-C3'	-8.83	109.11	119.70
129	L6	10	DT	O3'-P-O5'	-8.83	87.23	104.00
129	L6	23	DG	OP2-P-O3'	8.83	124.62	105.20
175	PD	10	DC	O3'-P-O5'	-8.83	87.23	104.00
182	QA	20	DG	OP2-P-O3'	8.83	124.62	105.20
189	R8	28	DG	OP2-P-O3'	8.83	124.62	105.20
192	RC	35	DC	O3'-P-O5'	-8.83	87.23	104.00
223	V5	25	DC	O3'-P-O5'	-8.83	87.23	104.00
232	W7	14	DT	O3'-P-O5'	-8.83	87.23	104.00
10	AA	11	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	415	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	676	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	1060	DG	OP2-P-O3'	8.82	124.62	105.20
11	AB	1269	DC	O3'-P-O5'	-8.82	87.23	104.00
11	AB	1430	DC	O3'-P-O5'	-8.82	87.23	104.00
11	AB	1472	DT	O3'-P-O5'	-8.82	87.23	104.00
11	AB	1521	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	2345	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	3052	DC	O3'-P-O5'	-8.82	87.23	104.00
11	AB	4600	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	2883	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	3555	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	3621	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	3769	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	4048	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	6571	DC	O3'-P-O5'	-8.82	87.23	104.00
11	AB	7187	DG	OP2-P-O3'	8.82	124.62	105.20
125	L1	36	DC	O3'-P-O5'	-8.82	87.23	104.00
132	L9	12	DG	OP2-P-O3'	8.82	124.62	105.20
161	O8	54	DC	O3'-P-O5'	-8.82	87.23	104.00
174	PC	23	DG	OP2-P-O3'	8.82	124.62	105.20
232	W7	17	DC	O3'-P-O5'	-8.82	87.23	104.00
11	AB	4622	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	4925	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	5430	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	6474	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	6940	DG	OP2-P-O3'	8.82	124.61	105.20
30	C6	31	DG	OP2-P-O3'	8.82	124.61	105.20
31	C7	30	DG	OP2-P-O3'	8.82	124.61	105.20
32	C8	28	DG	OP2-P-O3'	8.82	124.61	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	D1	32	DC	O3'-P-O5'	-8.82	87.24	104.00
41	D6	19	DG	OP2-P-O3'	8.82	124.61	105.20
44	D9	18	DG	OP2-P-O3'	8.82	124.61	105.20
69	FD	37	DG	OP2-P-O3'	8.82	124.61	105.20
73	G5	1	DC	O3'-P-O5'	-8.82	87.24	104.00
74	G6	35	DG	OP2-P-O3'	8.82	124.61	105.20
82	H2	5	DG	OP2-P-O3'	8.82	124.61	105.20
84	H5	20	DG	OP2-P-O3'	8.82	124.61	105.20
85	H6	17	DG	OP2-P-O3'	8.82	124.61	105.20
104	J2	26	DG	OP2-P-O3'	8.82	124.61	105.20
114	K1	16	DG	OP2-P-O3'	8.82	124.61	105.20
115	K2	17	DG	OP2-P-O3'	8.82	124.61	105.20
160	O7	13	DG	OP2-P-O3'	8.82	124.61	105.20
164	OC	9	DA	P-O3'-C3'	-8.82	109.11	119.70
173	PA	28	DC	O3'-P-O5'	-8.82	87.23	104.00
180	Q8	11	DC	O3'-P-O5'	-8.82	87.23	104.00
197	S7	6	DG	OP2-P-O3'	8.82	124.61	105.20
211	TD	10	DG	OP2-P-O3'	8.82	124.61	105.20
223	V5	37	DG	OP2-P-O3'	8.82	124.61	105.20
1	A1	10	DC	O3'-P-O5'	-8.82	87.24	104.00
70	G1	9	DA	P-O3'-C3'	-8.82	109.11	119.70
4	A4	13	DC	O3'-P-O5'	-8.82	87.24	104.00
11	AB	204	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	236	DC	O3'-P-O5'	-8.82	87.24	104.00
11	AB	468	DC	O3'-P-O5'	-8.82	87.24	104.00
11	AB	626	DC	O3'-P-O5'	-8.82	87.24	104.00
11	AB	1811	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	1916	DT	O3'-P-O5'	-8.82	87.24	104.00
11	AB	4246	DA	P-O3'-C3'	-8.82	109.11	119.70
11	AB	5198	DC	O3'-P-O5'	-8.82	87.24	104.00
40	D5	24	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	736	DA	P-O3'-C3'	-8.82	109.12	119.70
11	AB	999	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	1226	DC	O3'-P-O5'	-8.82	87.24	104.00
11	AB	3491	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	4428	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	4672	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	1459	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	2018	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	2983	DC	O3'-P-O5'	-8.82	87.24	104.00
11	AB	3806	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	4303	DG	OP2-P-O3'	8.82	124.61	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4322	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	4493	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	4902	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	4971	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	5521	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	5901	DC	O3'-P-O5'	-8.82	87.24	104.00
11	AB	6646	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	6833	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	7214	DG	OP2-P-O3'	8.82	124.61	105.20
82	H2	43	DG	OP2-P-O3'	8.82	124.61	105.20
106	J5	30	DG	OP2-P-O3'	8.82	124.61	105.20
107	J6	22	DG	OP2-P-O3'	8.82	124.61	105.20
152	N9	18	DG	OP2-P-O3'	8.82	124.61	105.20
156	O2	48	DC	O3'-P-O5'	-8.82	87.24	104.00
166	P2	28	DG	OP2-P-O3'	8.82	124.61	105.20
187	R5	18	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	2567	DT	O3'-P-O5'	-8.82	87.24	104.00
11	AB	3449	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	3566	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	4061	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	4110	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	4259	DC	O3'-P-O5'	-8.82	87.24	104.00
11	AB	4539	DC	O3'-P-O5'	-8.82	87.24	104.00
11	AB	4667	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	5824	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	6146	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	6211	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	6743	DA	P-O3'-C3'	-8.82	109.12	119.70
11	AB	6905	DG	OP2-P-O3'	8.82	124.61	105.20
11	AB	7098	DA	P-O3'-C3'	-8.82	109.12	119.70
32	C8	4	DG	OP2-P-O3'	8.82	124.61	105.20
128	L5	10	DG	OP2-P-O3'	8.82	124.61	105.20
187	R5	4	DG	OP2-P-O3'	8.82	124.61	105.20
38	D2	12	DC	O3'-P-O5'	-8.82	87.25	104.00
45	DA	14	DG	OP2-P-O3'	8.82	124.60	105.20
51	E5	25	DG	OP2-P-O3'	8.82	124.60	105.20
76	G8	7	DG	OP2-P-O3'	8.82	124.60	105.20
98	I8	25	DG	OP2-P-O3'	8.82	124.60	105.20
108	J7	55	DG	OP2-P-O3'	8.82	124.60	105.20
134	LC	16	DG	OP2-P-O3'	8.82	124.60	105.20
136	M2	6	DG	OP2-P-O3'	8.82	124.60	105.20
160	O7	32	DA	P-O3'-C3'	-8.82	109.12	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
166	P2	9	DG	OP2-P-O3'	8.82	124.60	105.20
169	P6	10	DG	OP2-P-O3'	8.82	124.60	105.20
199	S9	20	DG	OP2-P-O3'	8.82	124.60	105.20
200	SA	12	DG	OP2-P-O3'	8.82	124.61	105.20
212	U2	24	DA	P-O3'-C3'	-8.82	109.12	119.70
11	AB	726	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	1573	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	1729	DA	P-O3'-C3'	-8.82	109.12	119.70
11	AB	3442	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	3542	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	4176	DC	O3'-P-O5'	-8.82	87.25	104.00
11	AB	5991	DC	O3'-P-O5'	-8.82	87.25	104.00
11	AB	6918	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	6933	DG	OP2-P-O3'	8.82	124.60	105.20
53	E7	16	DG	OP2-P-O3'	8.82	124.60	105.20
58	ED	7	DG	OP2-P-O3'	8.82	124.60	105.20
74	G6	21	DG	OP2-P-O3'	8.82	124.60	105.20
88	H9	16	DG	OP2-P-O3'	8.82	124.60	105.20
167	P3	9	DG	OP2-P-O3'	8.82	124.60	105.20
1	A1	15	DG	OP2-P-O3'	8.82	124.59	105.20
5	A5	30	DC	O3'-P-O5'	-8.82	87.25	104.00
6	A6	9	DG	OP2-P-O3'	8.82	124.59	105.20
11	AB	90	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	294	DG	OP2-P-O3'	8.82	124.59	105.20
11	AB	839	DA	P-O3'-C3'	-8.82	109.12	119.70
11	AB	1165	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	1892	DC	O3'-P-O5'	-8.82	87.25	104.00
11	AB	2927	DT	O3'-P-O5'	-8.82	87.25	104.00
11	AB	1979	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	2106	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	3445	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	3653	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	3697	DG	OP2-P-O3'	8.82	124.59	105.20
11	AB	4107	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	4572	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	4705	DC	O3'-P-O5'	-8.82	87.25	104.00
11	AB	5010	DG	OP2-P-O3'	8.82	124.59	105.20
11	AB	5050	DG	OP2-P-O3'	8.82	124.60	105.20
11	AB	5798	DG	OP2-P-O3'	8.82	124.60	105.20
14	B1	21	DG	OP2-P-O3'	8.82	124.60	105.20
38	D2	17	DG	OP2-P-O3'	8.82	124.60	105.20
69	FD	31	DG	OP2-P-O3'	8.82	124.60	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
93	I2	45	DG	OP2-P-O3'	8.82	124.60	105.20
102	ID	30	DG	OP2-P-O3'	8.82	124.59	105.20
125	L1	12	DG	OP2-P-O3'	8.82	124.60	105.20
125	L1	25	DG	OP2-P-O3'	8.82	124.60	105.20
166	P2	11	DG	OP2-P-O3'	8.82	124.60	105.20
139	M6	17	DC	O3'-P-O5'	-8.82	87.25	104.00
139	M6	21	DG	OP2-P-O3'	8.82	124.60	105.20
149	N6	2	DG	OP2-P-O3'	8.82	124.60	105.20
169	P6	5	DG	OP2-P-O3'	8.82	124.60	105.20
188	R7	8	DG	OP2-P-O3'	8.82	124.60	105.20
153	NA	15	DG	OP2-P-O3'	8.82	124.60	105.20
174	PC	7	DG	OP2-P-O3'	8.82	124.60	105.20
192	RC	33	DG	OP2-P-O3'	8.82	124.60	105.20
237	X7	16	DA	P-O3'-C3'	-8.82	109.12	119.70
238	X9	43	DC	O3'-P-O5'	-8.82	87.25	104.00
200	SA	6	DG	OP2-P-O3'	8.82	124.59	105.20
208	T9	8	DA	P-O3'-C3'	-8.82	109.12	119.70
5	A5	23	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	766	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	1126	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	2910	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	3076	DC	O3'-P-O5'	-8.81	87.25	104.00
11	AB	3269	DC	O3'-P-O5'	-8.81	87.25	104.00
11	AB	4959	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	6004	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	856	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	1092	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	1611	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	7154	DG	OP2-P-O3'	8.81	124.59	105.20
42	D7	12	DA	P-O3'-C3'	-8.81	109.12	119.70
67	FA	28	DA	P-O3'-C3'	-8.81	109.12	119.70
143	MA	9	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	1896	DC	O3'-P-O5'	-8.81	87.25	104.00
11	AB	2184	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	2263	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	2550	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	3832	DA	P-O3'-C3'	-8.81	109.12	119.70
11	AB	4629	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	4085	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	4583	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	4809	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	4944	DC	O3'-P-O5'	-8.81	87.25	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	D8	9	DG	OP2-P-O3'	8.81	124.59	105.20
147	N3	5	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	5058	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	6693	DG	OP2-P-O3'	8.81	124.59	105.20
15	B2	20	DG	OP2-P-O3'	8.81	124.59	105.20
69	FD	46	DG	OP2-P-O3'	8.81	124.59	105.20
24	BC	39	DG	OP2-P-O3'	8.81	124.59	105.20
39	D3	32	DG	OP2-P-O3'	8.81	124.59	105.20
65	F8	3	DG	OP2-P-O3'	8.81	124.59	105.20
68	FC	5	DG	OP2-P-O3'	8.81	124.59	105.20
69	FD	44	DG	OP2-P-O3'	8.81	124.59	105.20
82	H2	21	DG	OP2-P-O3'	8.81	124.59	105.20
82	H2	47	DG	OP2-P-O3'	8.81	124.59	105.20
149	N6	50	DG	OP2-P-O3'	8.81	124.59	105.20
145	MD	38	DG	OP2-P-O3'	8.81	124.59	105.20
168	P5	17	DA	P-O3'-C3'	-8.81	109.12	119.70
188	R7	29	DG	OP2-P-O3'	8.81	124.59	105.20
190	R9	45	DG	OP2-P-O3'	8.81	124.59	105.20
192	RC	11	DG	OP2-P-O3'	8.81	124.59	105.20
206	T7	9	DG	OP2-P-O3'	8.81	124.59	105.20
206	T7	23	DG	OP2-P-O3'	8.81	124.59	105.20
212	U2	10	DG	OP2-P-O3'	8.81	124.59	105.20
217	U9	11	DG	OP2-P-O3'	8.81	124.59	105.20
220	UD	19	DG	OP2-P-O3'	8.81	124.59	105.20
231	W5	13	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	657	DA	P-O3'-C3'	-8.81	109.12	119.70
11	AB	2654	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	5636	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	6230	DA	P-O3'-C3'	-8.81	109.12	119.70
152	N9	26	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	669	DA	P-O3'-C3'	-8.81	109.13	119.70
11	AB	784	DT	O3'-P-O5'	-8.81	87.26	104.00
11	AB	817	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	958	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	1282	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	1798	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	1949	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	1981	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	4323	DC	O3'-P-O5'	-8.81	87.26	104.00
11	AB	7012	DG	OP2-P-O3'	8.81	124.59	105.20
13	AD	43	DG	OP2-P-O3'	8.81	124.59	105.20
24	BC	8	DG	OP2-P-O3'	8.81	124.59	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
91	HD	19	DG	OP2-P-O3'	8.81	124.59	105.20
120	K8	6	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	1863	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	2178	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	2373	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	2588	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	2885	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	4175	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	6695	DC	O3'-P-O5'	-8.81	87.26	104.00
99	I9	21	DG	OP2-P-O3'	8.81	124.59	105.20
156	O2	29	DG	OP2-P-O3'	8.81	124.59	105.20
204	T3	20	DG	OP2-P-O3'	8.81	124.59	105.20
11	AB	3105	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	3802	DA	P-O3'-C3'	-8.81	109.13	119.70
11	AB	3838	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	5062	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	5483	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	5132	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	6024	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	6349	DG	OP2-P-O3'	8.81	124.58	105.20
24	BC	15	DG	OP2-P-O3'	8.81	124.58	105.20
54	E8	26	DG	OP2-P-O3'	8.81	124.58	105.20
110	J9	15	DG	OP2-P-O3'	8.81	124.59	105.20
237	X7	19	DA	P-O3'-C3'	-8.81	109.13	119.70
93	I2	17	DA	P-O3'-C3'	-8.81	109.13	119.70
109	J8	2	DG	OP2-P-O3'	8.81	124.58	105.20
109	J8	40	DG	OP2-P-O3'	8.81	124.58	105.20
143	MA	30	DG	OP2-P-O3'	8.81	124.58	105.20
156	O2	45	DG	OP2-P-O3'	8.81	124.58	105.20
161	O8	53	DG	OP2-P-O3'	8.81	124.58	105.20
214	U5	21	DG	OP2-P-O3'	8.81	124.59	105.20
165	OD	55	DG	OP2-P-O3'	8.81	124.58	105.20
174	PC	11	DG	OP2-P-O3'	8.81	124.58	105.20
206	T7	2	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	44	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	386	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	913	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	1182	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	1267	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	2577	DA	P-O3'-C3'	-8.81	109.13	119.70
38	D2	14	DG	OP2-P-O3'	8.81	124.58	105.20
6	A6	16	DC	O3'-P-O5'	-8.81	87.27	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1406	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	1770	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	2877	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	5215	DG	OP2-P-O3'	8.81	124.58	105.20
78	GA	15	DA	P-O3'-C3'	-8.81	109.13	119.70
139	M6	4	DG	OP2-P-O3'	8.81	124.58	105.20
149	N6	18	DA	P-O3'-C3'	-8.81	109.13	119.70
11	AB	1883	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	2729	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	3369	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	3775	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	4063	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	4071	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	4340	DC	O3'-P-O5'	-8.81	87.27	104.00
11	AB	4784	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	7217	DG	OP2-P-O3'	8.81	124.58	105.20
115	K2	20	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	4510	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	4654	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	4850	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	4947	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	5001	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	5017	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	5260	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	5772	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	5793	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	5946	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	6130	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	6734	DG	OP2-P-O3'	8.81	124.58	105.20
54	E8	28	DG	OP2-P-O3'	8.81	124.58	105.20
61	F3	6	DG	OP2-P-O3'	8.81	124.58	105.20
96	I6	3	DG	OP2-P-O3'	8.81	124.58	105.20
122	KA	5	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	6386	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	6821	DG	OP2-P-O3'	8.81	124.58	105.20
11	AB	7160	DG	OP2-P-O3'	8.81	124.58	105.20
27	C2	20	DG	OP2-P-O3'	8.81	124.58	105.20
44	D9	27	DG	OP2-P-O3'	8.81	124.58	105.20
61	F3	15	DG	OP2-P-O3'	8.81	124.58	105.20
61	F3	19	DA	P-O3'-C3'	-8.81	109.13	119.70
62	F5	18	DG	OP2-P-O3'	8.81	124.58	105.20
83	H3	37	DG	OP2-P-O3'	8.81	124.58	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
63	F6	9	DG	OP2-P-O3'	8.81	124.58	105.20
68	FC	17	DG	OP2-P-O3'	8.81	124.58	105.20
79	GC	12	DG	OP2-P-O3'	8.81	124.58	105.20
109	J8	42	DG	OP2-P-O3'	8.81	124.58	105.20
115	K2	15	DG	OP2-P-O3'	8.81	124.58	105.20
143	MA	14	DG	OP2-P-O3'	8.81	124.58	105.20
190	R9	28	DG	OP2-P-O3'	8.81	124.58	105.20
194	S2	15	DG	OP2-P-O3'	8.81	124.58	105.20
122	KA	13	DG	OP2-P-O3'	8.81	124.58	105.20
133	LA	6	DG	OP2-P-O3'	8.81	124.58	105.20
135	LD	11	DA	P-O3'-C3'	-8.81	109.13	119.70
148	N5	15	DA	P-O3'-C3'	-8.81	109.13	119.70
160	O7	28	DA	P-O3'-C3'	-8.81	109.13	119.70
173	PA	36	DG	OP2-P-O3'	8.81	124.57	105.20
175	PD	17	DG	OP2-P-O3'	8.81	124.58	105.20
194	S2	29	DG	OP2-P-O3'	8.81	124.58	105.20
199	S9	8	DA	P-O3'-C3'	-8.81	109.13	119.70
204	T3	24	DG	OP2-P-O3'	8.81	124.58	105.20
214	U5	8	DG	OP2-P-O3'	8.81	124.58	105.20
229	VD	2	DA	P-O3'-C3'	-8.81	109.13	119.70
6	A6	28	DG	OP2-P-O3'	8.81	124.57	105.20
11	AB	321	DG	OP2-P-O3'	8.81	124.57	105.20
11	AB	833	DG	OP2-P-O3'	8.81	124.57	105.20
11	AB	1501	DG	OP2-P-O3'	8.81	124.57	105.20
11	AB	2668	DG	OP2-P-O3'	8.81	124.57	105.20
11	AB	3888	DG	OP2-P-O3'	8.81	124.57	105.20
11	AB	4216	DG	OP2-P-O3'	8.81	124.57	105.20
11	AB	4383	DA	P-O3'-C3'	-8.81	109.13	119.70
11	AB	4980	DG	OP2-P-O3'	8.81	124.57	105.20
50	E3	2	DG	OP2-P-O3'	8.81	124.57	105.20
91	HD	17	DG	OP2-P-O3'	8.81	124.57	105.20
99	I9	17	DG	OP2-P-O3'	8.81	124.57	105.20
4	A4	11	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	663	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	781	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	2449	DA	P-O3'-C3'	-8.80	109.13	119.70
11	AB	3584	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	4525	DG	OP2-P-O3'	8.81	124.57	105.20
11	AB	6492	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	6999	DG	OP2-P-O3'	8.81	124.57	105.20
22	B9	41	DG	OP2-P-O3'	8.81	124.57	105.20
32	C8	39	DG	OP2-P-O3'	8.80	124.57	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	EA	20	DG	OP2-P-O3'	8.81	124.57	105.20
88	H9	11	DG	OP2-P-O3'	8.81	124.57	105.20
103	J1	24	DG	OP2-P-O3'	8.81	124.57	105.20
117	K5	18	DA	P-O3'-C3'	-8.81	109.13	119.70
142	M9	5	DG	OP2-P-O3'	8.81	124.57	105.20
186	R3	19	DG	OP2-P-O3'	8.81	124.57	105.20
11	AB	886	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	1011	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	1095	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	1706	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	1855	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	1927	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	2296	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	2339	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	2435	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	2496	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	2556	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	3811	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	3953	DG	OP2-P-O3'	8.80	124.57	105.20
55	E9	18	DG	OP2-P-O3'	8.80	124.57	105.20
140	M7	16	DG	OP2-P-O3'	8.80	124.57	105.20
160	O7	39	DA	P-O3'-C3'	-8.80	109.13	119.70
170	P7	12	DG	OP2-P-O3'	8.80	124.57	105.20
179	Q7	22	DG	OP2-P-O3'	8.80	124.57	105.20
205	T5	2	DG	OP2-P-O3'	8.81	124.57	105.20
11	AB	3022	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	3142	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	3259	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	3568	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	3609	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	3871	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	4088	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	4472	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	4590	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	4608	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	4711	DG	OP2-P-O3'	8.80	124.57	105.20
193	RD	7	DA	P-O3'-C3'	-8.81	109.13	119.70
11	AB	4887	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	4928	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	4998	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	5036	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	5084	DG	OP2-P-O3'	8.80	124.57	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6189	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	5113	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	5301	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	5584	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	5704	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	6505	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	6752	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	6831	DG	OP2-P-O3'	8.80	124.57	105.20
32	C8	25	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	6997	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	7084	DG	OP2-P-O3'	8.80	124.57	105.20
11	AB	7200	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	7241	DG	OP2-P-O3'	8.80	124.57	105.20
22	B9	4	DG	OP2-P-O3'	8.80	124.57	105.20
23	BA	17	DG	OP2-P-O3'	8.80	124.57	105.20
51	E5	11	DG	OP2-P-O3'	8.80	124.57	105.20
86	H7	21	DG	OP2-P-O3'	8.80	124.57	105.20
106	J5	7	DG	OP2-P-O3'	8.80	124.57	105.20
109	J8	53	DG	OP2-P-O3'	8.80	124.57	105.20
113	JD	30	DG	OP2-P-O3'	8.81	124.57	105.20
118	K6	9	DG	OP2-P-O3'	8.81	124.57	105.20
127	L3	4	DG	OP2-P-O3'	8.80	124.57	105.20
172	P9	20	DG	OP2-P-O3'	8.80	124.57	105.20
60	F2	3	DA	P-O3'-C3'	-8.80	109.14	119.70
69	FD	2	DG	OP2-P-O3'	8.80	124.57	105.20
93	I2	30	DG	OP2-P-O3'	8.80	124.57	105.20
94	I3	37	DG	OP2-P-O3'	8.80	124.57	105.20
116	K3	19	DA	P-O3'-C3'	-8.80	109.14	119.70
145	MD	24	DG	OP2-P-O3'	8.80	124.57	105.20
154	NC	26	DG	OP2-P-O3'	8.80	124.57	105.20
156	O2	7	DA	P-O3'-C3'	-8.80	109.13	119.70
160	O7	1	DG	OP2-P-O3'	8.80	124.57	105.20
203	T2	10	DG	OP2-P-O3'	8.81	124.57	105.20
209	TA	33	DG	OP2-P-O3'	8.80	124.57	105.20
211	TD	41	DG	OP2-P-O3'	8.80	124.57	105.20
214	U5	17	DG	OP2-P-O3'	8.81	124.57	105.20
145	MD	39	DC	O3'-P-O5'	-8.80	87.28	104.00
164	OC	14	DG	OP2-P-O3'	8.80	124.57	105.20
185	R2	11	DG	OP2-P-O3'	8.80	124.57	105.20
186	R3	6	DG	OP2-P-O3'	8.80	124.57	105.20
186	R3	11	DG	OP2-P-O3'	8.80	124.57	105.20
191	RA	9	DG	OP2-P-O3'	8.80	124.57	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
223	V5	22	DG	OP2-P-O3'	8.80	124.57	105.20
192	RC	7	DG	OP2-P-O3'	8.80	124.57	105.20
217	U9	7	DG	OP2-P-O3'	8.80	124.57	105.20
225	V8	20	DG	OP2-P-O3'	8.80	124.57	105.20
232	W7	19	DG	OP2-P-O3'	8.80	124.57	105.20
236	X5	5	DG	OP2-P-O3'	8.80	124.57	105.20
2	A2	20	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	328	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	852	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	1038	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	1613	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	2081	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	2524	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	4202	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	6337	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	354	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	2011	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	2391	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	2996	DG	OP2-P-O3'	8.80	124.56	105.20
196	S5	13	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	3414	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	3469	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	4127	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	4574	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	4854	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5019	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5024	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5681	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5782	DG	OP2-P-O3'	8.80	124.56	105.20
104	J2	3	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5070	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5866	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5995	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	6030	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	6168	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	7145	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	6730	DG	OP2-P-O3'	8.80	124.56	105.20
29	C5	22	DA	P-O3'-C3'	-8.80	109.14	119.70
30	C6	17	DG	OP2-P-O3'	8.80	124.56	105.20
32	C8	8	DG	OP2-P-O3'	8.80	124.56	105.20
32	C8	47	DG	OP2-P-O3'	8.80	124.56	105.20
52	E6	33	DG	OP2-P-O3'	8.80	124.56	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	EC	14	DG	OP2-P-O3'	8.80	124.56	105.20
130	L7	59	DA	P-O3'-C3'	-8.80	109.14	119.70
60	F2	12	DG	OP2-P-O3'	8.80	124.56	105.20
77	G9	10	DG	OP2-P-O3'	8.80	124.56	105.20
90	HC	8	DG	OP2-P-O3'	8.80	124.56	105.20
104	J2	36	DA	P-O3'-C3'	-8.80	109.14	119.70
112	JC	12	DG	OP2-P-O3'	8.80	124.56	105.20
115	K2	9	DG	OP2-P-O3'	8.80	124.56	105.20
119	K7	27	DG	OP2-P-O3'	8.80	124.56	105.20
114	K1	4	DA	P-O3'-C3'	-8.80	109.14	119.70
143	MA	11	DG	OP2-P-O3'	8.80	124.56	105.20
143	MA	17	DA	P-O3'-C3'	-8.80	109.14	119.70
151	N8	20	DG	OP2-P-O3'	8.80	124.56	105.20
174	PC	26	DG	OP2-P-O3'	8.80	124.56	105.20
184	QD	1	DA	P-O3'-C3'	-8.80	109.14	119.70
185	R2	15	DG	OP2-P-O3'	8.80	124.56	105.20
206	T7	12	DG	OP2-P-O3'	8.80	124.56	105.20
226	V9	20	DA	P-O3'-C3'	-8.80	109.14	119.70
209	TA	12	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	548	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	943	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	1347	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	2326	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	3373	DA	P-O3'-C3'	-8.80	109.14	119.70
110	J9	20	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	558	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	590	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	642	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	648	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	1064	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	1077	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	1429	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	1535	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	1819	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	1971	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	2171	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	2311	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	2713	DG	OP2-P-O3'	8.80	124.56	105.20
66	F9	11	DA	P-O3'-C3'	-8.80	109.14	119.70
162	O9	6	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	2014	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	2918	DG	OP2-P-O3'	8.80	124.56	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3214	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	3456	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	3424	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	3606	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	3917	DG	OP2-P-O3'	8.80	124.56	105.20
113	JD	12	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	4074	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	4145	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	4381	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	4400	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	4842	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	4625	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	4846	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5045	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5238	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5253	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5445	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	6755	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	6825	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	7190	DG	OP2-P-O3'	8.80	124.56	105.20
81	H1	9	DA	P-O3'-C3'	-8.80	109.14	119.70
110	J9	18	DG	OP2-P-O3'	8.80	124.56	105.20
11	AB	5619	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	6463	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	7072	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	7208	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	7235	DG	OP2-P-O3'	8.80	124.56	105.20
27	C2	6	DG	OP2-P-O3'	8.80	124.56	105.20
37	D1	36	DG	OP2-P-O3'	8.80	124.56	105.20
47	DD	29	DG	OP2-P-O3'	8.80	124.56	105.20
58	ED	21	DG	OP2-P-O3'	8.80	124.55	105.20
80	GD	21	DG	OP2-P-O3'	8.80	124.56	105.20
83	H3	5	DG	OP2-P-O3'	8.80	124.56	105.20
86	H7	5	DA	P-O3'-C3'	-8.80	109.14	119.70
94	I3	51	DA	P-O3'-C3'	-8.80	109.14	119.70
126	L2	45	DG	OP2-P-O3'	8.80	124.56	105.20
201	SC	5	DG	OP2-P-O3'	8.80	124.56	105.20
88	H9	14	DG	OP2-P-O3'	8.80	124.55	105.20
92	I1	17	DG	OP2-P-O3'	8.80	124.55	105.20
92	I1	23	DG	OP2-P-O3'	8.80	124.56	105.20
94	I3	47	DG	OP2-P-O3'	8.80	124.56	105.20
101	IC	5	DG	OP2-P-O3'	8.80	124.56	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
144	MC	6	DG	OP2-P-O3'	8.80	124.55	105.20
151	N8	15	DG	OP2-P-O3'	8.80	124.56	105.20
167	P3	29	DG	OP2-P-O3'	8.80	124.55	105.20
206	T7	29	DA	P-O3'-C3'	-8.80	109.14	119.70
209	TA	16	DG	OP2-P-O3'	8.80	124.56	105.20
209	TA	27	DG	OP2-P-O3'	8.80	124.55	105.20
211	TD	39	DG	OP2-P-O3'	8.80	124.55	105.20
231	W5	33	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	1848	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	3224	DT	O3'-P-O5'	-8.80	87.29	104.00
11	AB	3293	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	4489	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	4532	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	4865	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	5534	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	5672	DT	O3'-P-O5'	-8.80	87.29	104.00
11	AB	5695	DG	OP2-P-O3'	8.80	124.55	105.20
60	F2	22	DG	OP2-P-O3'	8.80	124.55	105.20
1	A1	9	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	61	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	126	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	523	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	1146	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	1809	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	4576	DC	O3'-P-O5'	-8.80	87.29	104.00
11	AB	4774	DA	P-O3'-C3'	-8.80	109.14	119.70
11	AB	4943	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	2189	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	2674	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	4038	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	4702	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	4973	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	5242	DG	OP2-P-O3'	8.79	124.55	105.20
97	I7	31	DG	OP2-P-O3'	8.80	124.55	105.20
181	Q9	16	DG	OP2-P-O3'	8.80	124.55	105.20
11	AB	5929	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	6050	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	7177	DG	OP2-P-O3'	8.79	124.55	105.20
60	F2	5	DG	OP2-P-O3'	8.79	124.55	105.20
63	F6	11	DG	OP2-P-O3'	8.79	124.55	105.20
72	G3	14	DG	OP2-P-O3'	8.79	124.55	105.20
220	UD	9	DG	OP2-P-O3'	8.80	124.55	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
75	G7	26	DG	OP2-P-O3'	8.79	124.55	105.20
101	IC	19	DG	OP2-P-O3'	8.79	124.55	105.20
117	K5	40	DG	OP2-P-O3'	8.79	124.55	105.20
123	KC	19	DG	OP2-P-O3'	8.79	124.55	105.20
124	KD	6	DG	OP2-P-O3'	8.79	124.55	105.20
145	MD	13	DG	OP2-P-O3'	8.79	124.55	105.20
147	N3	12	DG	OP2-P-O3'	8.79	124.55	105.20
147	N3	25	DG	OP2-P-O3'	8.79	124.55	105.20
149	N6	45	DA	P-O3'-C3'	-8.79	109.15	119.70
151	N8	4	DA	P-O3'-C3'	-8.79	109.15	119.70
195	S3	5	DG	OP2-P-O3'	8.79	124.55	105.20
216	U8	19	DG	OP2-P-O3'	8.79	124.55	105.20
221	V2	26	DA	P-O3'-C3'	-8.79	109.15	119.70
227	VA	7	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	20	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	901	DG	OP2-P-O3'	8.79	124.55	105.20
163	OA	2	DG	OP2-P-O3'	8.79	124.55	105.20
222	V3	10	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	307	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	1559	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	1667	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	1898	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	2169	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	3463	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	7244	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	4083	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	4103	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	4170	DT	O3'-P-O5'	-8.79	87.30	104.00
11	AB	4466	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	4538	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	5323	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	6964	DG	OP2-P-O3'	8.79	124.55	105.20
37	D1	31	DG	OP2-P-O3'	8.79	124.55	105.20
47	DD	41	DG	OP2-P-O3'	8.79	124.54	105.20
119	K7	39	DG	OP2-P-O3'	8.79	124.55	105.20
171	P8	16	DA	P-O3'-C3'	-8.79	109.15	119.70
178	Q5	5	DG	OP2-P-O3'	8.79	124.55	105.20
11	AB	5594	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	5625	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	6166	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	6298	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	6406	DG	OP2-P-O3'	8.79	124.54	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B1	33	DG	OP2-P-O3'	8.79	124.54	105.20
26	C1	10	DA	P-O3'-C3'	-8.79	109.15	119.70
60	F2	33	DA	P-O3'-C3'	-8.79	109.15	119.70
75	G7	2	DA	P-O3'-C3'	-8.79	109.15	119.70
109	J8	12	DG	OP2-P-O3'	8.79	124.54	105.20
75	G7	21	DA	P-O3'-C3'	-8.79	109.15	119.70
88	H9	27	DG	OP2-P-O3'	8.79	124.54	105.20
90	HC	11	DA	P-O3'-C3'	-8.79	109.15	119.70
94	I3	20	DG	OP2-P-O3'	8.79	124.54	105.20
112	JC	2	DG	OP2-P-O3'	8.79	124.54	105.20
125	L1	35	DA	P-O3'-C3'	-8.79	109.15	119.70
136	M2	18	DG	OP2-P-O3'	8.79	124.54	105.20
143	MA	43	DG	OP2-P-O3'	8.79	124.54	105.20
147	N3	20	DG	OP2-P-O3'	8.79	124.54	105.20
156	O2	11	DG	OP2-P-O3'	8.79	124.54	105.20
177	Q3	7	DA	P-O3'-C3'	-8.79	109.15	119.70
177	Q3	14	DA	P-O3'-C3'	-8.79	109.15	119.70
183	QC	21	DG	OP2-P-O3'	8.79	124.54	105.20
188	R7	14	DG	OP2-P-O3'	8.79	124.54	105.20
202	SD	25	DA	P-O3'-C3'	-8.79	109.15	119.70
8	A8	20	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	514	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	635	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	859	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	1284	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	1318	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	1368	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	1395	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	1494	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	2538	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	2723	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	3190	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	3358	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	3484	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	4563	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	4689	DG	OP2-P-O3'	8.79	124.54	105.20
12	AC	6	DA	P-O3'-C3'	-8.79	109.15	119.70
30	C6	25	DG	OP2-P-O3'	8.79	124.54	105.20
45	DA	17	DA	P-O3'-C3'	-8.79	109.15	119.70
74	G6	29	DG	OP2-P-O3'	8.79	124.54	105.20
79	GC	23	DA	P-O3'-C3'	-8.79	109.15	119.70
200	SA	26	DG	OP2-P-O3'	8.79	124.54	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	700	DA	P-O3'-C3'	-8.79	109.16	119.70
11	AB	862	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	1053	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	3496	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	4131	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	4139	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	4515	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	5176	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	5365	DG	OP2-P-O3'	8.79	124.54	105.20
11	AB	5938	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	7050	DG	OP2-P-O3'	8.79	124.53	105.20
99	I9	25	DG	OP2-P-O3'	8.79	124.54	105.20
132	L9	15	DA	P-O3'-C3'	-8.79	109.15	119.70
228	VC	4	DA	P-O3'-C3'	-8.79	109.15	119.70
11	AB	6660	DA	P-O3'-C3'	-8.79	109.16	119.70
11	AB	6907	DG	OP2-P-O3'	8.79	124.53	105.20
18	B5	3	DG	OP2-P-O3'	8.79	124.53	105.20
18	B5	8	DG	OP2-P-O3'	8.79	124.53	105.20
35	CC	31	DG	OP2-P-O3'	8.79	124.53	105.20
46	DC	8	DG	OP2-P-O3'	8.79	124.53	105.20
49	E2	4	DG	OP2-P-O3'	8.79	124.53	105.20
55	E9	22	DG	OP2-P-O3'	8.79	124.53	105.20
71	G2	12	DA	P-O3'-C3'	-8.79	109.16	119.70
99	I9	10	DG	OP2-P-O3'	8.79	124.53	105.20
182	QA	22	DA	P-O3'-C3'	-8.79	109.15	119.70
204	T3	1	DG	OP2-P-O3'	8.79	124.54	105.20
238	X9	53	DG	OP2-P-O3'	8.79	124.54	105.20
190	R9	43	DA	P-O3'-C3'	-8.79	109.16	119.70
198	S8	16	DA	P-O3'-C3'	-8.79	109.16	119.70
238	X9	4	DG	OP2-P-O3'	8.79	124.53	105.20
1	A1	6	DA	P-O3'-C3'	-8.79	109.16	119.70
11	AB	364	DA	P-O3'-C3'	-8.79	109.16	119.70
11	AB	486	DA	P-O3'-C3'	-8.79	109.16	119.70
11	AB	768	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	883	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	1080	DA	P-O3'-C3'	-8.79	109.16	119.70
11	AB	6064	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	1026	DG	OP2-P-O3'	8.78	124.53	105.20
11	AB	1541	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	1703	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	2165	DA	P-O3'-C3'	-8.79	109.16	119.70
11	AB	3168	DG	OP2-P-O3'	8.79	124.53	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3245	DT	O3'-P-O5'	-8.79	87.31	104.00
11	AB	4257	DA	P-O3'-C3'	-8.79	109.16	119.70
11	AB	4665	DG	OP2-P-O3'	8.79	124.53	105.20
106	J5	27	DG	OP2-P-O3'	8.79	124.53	105.20
189	R8	18	DA	P-O3'-C3'	-8.79	109.16	119.70
11	AB	3316	DG	OP2-P-O3'	8.78	124.53	105.20
11	AB	4907	DA	P-O3'-C3'	-8.79	109.16	119.70
11	AB	5497	DG	OP2-P-O3'	8.79	124.53	105.20
41	D6	5	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	5664	DT	O3'-P-O5'	-8.78	87.31	104.00
11	AB	5907	DG	OP2-P-O3'	8.79	124.53	105.20
11	AB	6042	DG	OP2-P-O3'	8.79	124.53	105.20
234	W9	4	DA	P-O3'-C3'	-8.79	109.16	119.70
38	D2	11	DG	OP2-P-O3'	8.78	124.53	105.20
52	E6	16	DG	OP2-P-O3'	8.78	124.52	105.20
90	HC	15	DG	OP2-P-O3'	8.79	124.53	105.20
106	J5	1	DA	P-O3'-C3'	-8.78	109.16	119.70
111	JA	14	DA	P-O3'-C3'	-8.78	109.16	119.70
129	L6	27	DA	P-O3'-C3'	-8.79	109.16	119.70
157	O3	5	DA	P-O3'-C3'	-8.78	109.16	119.70
169	P6	18	DG	OP2-P-O3'	8.79	124.53	105.20
195	S3	7	DG	OP2-P-O3'	8.78	124.52	105.20
227	VA	15	DA	P-O3'-C3'	-8.78	109.16	119.70
228	VC	12	DG	OP2-P-O3'	8.78	124.53	105.20
238	X9	49	DG	OP2-P-O3'	8.79	124.53	105.20
238	X9	58	DA	P-O3'-C3'	-8.78	109.16	119.70
11	AB	14	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	693	DA	P-O3'-C3'	-8.78	109.16	119.70
11	AB	4451	DA	P-O3'-C3'	-8.78	109.16	119.70
11	AB	5148	DA	P-O3'-C3'	-8.78	109.16	119.70
28	C3	22	DA	P-O3'-C3'	-8.78	109.16	119.70
150	N7	22	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	1040	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	1131	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	3937	DA	P-O3'-C3'	-8.78	109.16	119.70
11	AB	4141	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	5407	DA	P-O3'-C3'	-8.78	109.16	119.70
11	AB	5475	DA	P-O3'-C3'	-8.78	109.16	119.70
161	O8	29	DA	P-O3'-C3'	-8.78	109.16	119.70
223	V5	10	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	4951	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	5641	DG	OP2-P-O3'	8.78	124.52	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5852	DC	O3'-P-O5'	-8.78	87.31	104.00
11	AB	6090	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	6154	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	7089	DA	P-O3'-C3'	-8.78	109.16	119.70
12	AC	18	DG	OP2-P-O3'	8.78	124.52	105.20
29	C5	25	DA	P-O3'-C3'	-8.78	109.16	119.70
43	D8	16	DA	P-O3'-C3'	-8.78	109.16	119.70
43	D8	25	DG	OP2-P-O3'	8.78	124.52	105.20
47	DD	9	DA	P-O3'-C3'	-8.78	109.16	119.70
54	E8	5	DG	OP2-P-O3'	8.78	124.52	105.20
85	H6	21	DG	OP2-P-O3'	8.78	124.52	105.20
97	I7	6	DA	P-O3'-C3'	-8.78	109.16	119.70
65	F8	11	DG	OP2-P-O3'	8.78	124.52	105.20
116	K3	7	DA	P-O3'-C3'	-8.78	109.16	119.70
120	K8	16	DA	P-O3'-C3'	-8.78	109.16	119.70
156	O2	16	DA	P-O3'-C3'	-8.78	109.16	119.70
187	R5	8	DA	P-O3'-C3'	-8.78	109.16	119.70
187	R5	10	DG	OP2-P-O3'	8.78	124.52	105.20
188	R7	22	DA	P-O3'-C3'	-8.78	109.16	119.70
202	SD	18	DA	P-O3'-C3'	-8.78	109.16	119.70
204	T3	5	DG	OP2-P-O3'	8.78	124.52	105.20
225	V8	25	DA	P-O3'-C3'	-8.78	109.16	119.70
233	W8	18	DG	OP2-P-O3'	8.78	124.52	105.20
2	A2	3	DG	OP2-P-O3'	8.78	124.52	105.20
2	A2	11	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	678	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	685	DC	O3'-P-O5'	-8.78	87.32	104.00
11	AB	931	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	4118	DG	OP2-P-O3'	8.78	124.52	105.20
11	AB	4440	DA	P-O3'-C3'	-8.78	109.16	119.70
11	AB	5988	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	6102	DA	P-O3'-C3'	-8.78	109.16	119.70
11	AB	1389	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	2959	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	2975	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	4670	DA	P-O3'-C3'	-8.78	109.16	119.70
11	AB	5144	DA	P-O3'-C3'	-8.78	109.16	119.70
11	AB	3729	DG	OP2-P-O3'	8.78	124.51	105.20
11	AB	4330	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	6251	DA	P-O3'-C3'	-8.78	109.17	119.70
30	C6	39	DA	P-O3'-C3'	-8.78	109.17	119.70
66	F9	7	DG	OP2-P-O3'	8.78	124.52	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
84	H5	1	DA	P-O3'-C3'	-8.78	109.17	119.70
113	JD	23	DA	P-O3'-C3'	-8.78	109.16	119.70
88	H9	18	DA	P-O3'-C3'	-8.78	109.17	119.70
125	L1	39	DA	P-O3'-C3'	-8.78	109.17	119.70
139	M6	19	DG	OP2-P-O3'	8.78	124.51	105.20
238	X9	21	DA	P-O3'-C3'	-8.78	109.16	119.70
143	MA	37	DA	P-O3'-C3'	-8.78	109.17	119.70
143	MA	45	DG	OP2-P-O3'	8.78	124.51	105.20
153	NA	5	DA	P-O3'-C3'	-8.78	109.17	119.70
198	S8	44	DA	P-O3'-C3'	-8.78	109.16	119.70
217	U9	18	DA	P-O3'-C3'	-8.78	109.16	119.70
226	V9	29	DA	P-O3'-C3'	-8.78	109.17	119.70
227	VA	22	DG	OP2-P-O3'	8.78	124.51	105.20
11	AB	485	DT	O3'-P-O5'	-8.78	87.32	104.00
78	GA	5	DA	P-O3'-C3'	-8.78	109.17	119.70
126	L2	41	DA	P-O3'-C3'	-8.78	109.17	119.70
10	AA	17	DG	OP2-P-O3'	8.78	124.50	105.20
11	AB	742	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	1238	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	2716	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	3619	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	6413	DG	OP2-P-O3'	8.78	124.51	105.20
11	AB	4861	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	5426	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	5603	DA	P-O3'-C3'	-8.78	109.17	119.70
26	C1	26	DA	P-O3'-C3'	-8.78	109.17	119.70
27	C2	10	DA	P-O3'-C3'	-8.78	109.17	119.70
46	DC	12	DA	P-O3'-C3'	-8.78	109.17	119.70
150	N7	17	DA	P-O3'-C3'	-8.78	109.17	119.70
164	OC	11	DG	OP2-P-O3'	8.78	124.51	105.20
37	D1	41	DA	P-O3'-C3'	-8.78	109.17	119.70
44	D9	12	DA	P-O3'-C3'	-8.78	109.17	119.70
52	E6	19	DA	P-O3'-C3'	-8.78	109.17	119.70
94	I3	18	DA	P-O3'-C3'	-8.78	109.17	119.70
165	OD	26	DA	P-O3'-C3'	-8.78	109.17	119.70
99	I9	6	DA	P-O3'-C3'	-8.78	109.17	119.70
115	K2	35	DA	P-O3'-C3'	-8.78	109.17	119.70
140	M7	7	DA	P-O3'-C3'	-8.78	109.17	119.70
182	QA	4	DA	P-O3'-C3'	-8.78	109.17	119.70
11	AB	1669	DG	OP2-P-O3'	8.77	124.50	105.20
11	AB	2582	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	2616	DA	P-O3'-C3'	-8.77	109.17	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A3	6	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	499	DG	OP2-P-O3'	8.77	124.50	105.20
11	AB	2433	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	4034	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	5623	DA	P-O3'-C3'	-8.77	109.17	119.70
99	I9	2	DA	P-O3'-C3'	-8.77	109.17	119.70
207	T8	15	DA	P-O3'-C3'	-8.77	109.17	119.70
210	TC	5	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	1484	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	1866	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	2040	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	2288	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	2531	DT	O3'-P-O5'	-8.77	87.33	104.00
11	AB	5439	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	6950	DA	P-O3'-C3'	-8.77	109.17	119.70
18	B5	16	DA	P-O3'-C3'	-8.77	109.17	119.70
128	L5	17	DA	P-O3'-C3'	-8.77	109.17	119.70
140	M7	13	DG	OP2-P-O3'	8.77	124.50	105.20
216	U8	12	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	2741	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	3488	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	4251	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	4267	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	4312	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	5134	DG	OP2-P-O3'	8.77	124.50	105.20
35	CC	26	DA	P-O3'-C3'	-8.77	109.17	119.70
42	D7	19	DG	OP2-P-O3'	8.77	124.50	105.20
84	H5	28	DA	P-O3'-C3'	-8.77	109.17	119.70
91	HD	23	DA	P-O3'-C3'	-8.77	109.17	119.70
105	J3	14	DA	P-O3'-C3'	-8.77	109.17	119.70
108	J7	20	DG	OP2-P-O3'	8.77	124.50	105.20
134	LC	6	DA	P-O3'-C3'	-8.77	109.17	119.70
167	P3	18	DA	P-O3'-C3'	-8.77	109.17	119.70
178	Q5	41	DA	P-O3'-C3'	-8.77	109.17	119.70
124	KD	3	DA	P-O3'-C3'	-8.77	109.18	119.70
10	AA	9	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	369	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	748	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	1208	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	1327	DA	P-O3'-C3'	-8.77	109.17	119.70
181	Q9	21	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	2982	DA	P-O3'-C3'	-8.77	109.18	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4030	DT	O3'-P-O5'	-8.77	87.34	104.00
11	AB	4178	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	4443	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	4816	DA	P-O3'-C3'	-8.77	109.17	119.70
11	AB	5121	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	6400	DG	OP2-P-O3'	8.77	124.49	105.20
48	E1	29	DA	P-O3'-C3'	-8.77	109.18	119.70
61	F3	24	DA	P-O3'-C3'	-8.77	109.18	119.70
107	J6	17	DA	P-O3'-C3'	-8.77	109.18	119.70
111	JA	8	DA	P-O3'-C3'	-8.77	109.18	119.70
201	SC	17	DA	P-O3'-C3'	-8.77	109.18	119.70
41	D6	43	DA	P-O3'-C3'	-8.77	109.18	119.70
75	G7	5	DA	P-O3'-C3'	-8.77	109.18	119.70
104	J2	17	DA	P-O3'-C3'	-8.77	109.18	119.70
126	L2	57	DA	P-O3'-C3'	-8.77	109.18	119.70
141	M8	16	DA	P-O3'-C3'	-8.77	109.18	119.70
141	M8	26	DA	P-O3'-C3'	-8.77	109.18	119.70
159	O6	5	DG	OP2-P-O3'	8.77	124.49	105.20
173	PA	8	DA	P-O3'-C3'	-8.77	109.18	119.70
187	R5	38	DA	P-O3'-C3'	-8.77	109.18	119.70
207	T8	11	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	1578	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	1891	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	1940	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	5980	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	3018	DA	P-O3'-C3'	-8.77	109.18	119.70
11	AB	4378	DA	P-O3'-C3'	-8.77	109.18	119.70
24	BC	29	DA	P-O3'-C3'	-8.77	109.18	119.70
33	C9	11	DA	P-O3'-C3'	-8.77	109.18	119.70
52	E6	5	DA	P-O3'-C3'	-8.77	109.18	119.70
52	E6	12	DA	P-O3'-C3'	-8.77	109.18	119.70
41	D6	25	DA	P-O3'-C3'	-8.77	109.18	119.70
63	F6	20	DA	P-O3'-C3'	-8.77	109.18	119.70
90	HC	18	DA	P-O3'-C3'	-8.77	109.18	119.70
94	I3	4	DA	P-O3'-C3'	-8.77	109.18	119.70
101	IC	21	DA	P-O3'-C3'	-8.77	109.18	119.70
106	J5	19	DA	P-O3'-C3'	-8.77	109.18	119.70
106	J5	22	DA	P-O3'-C3'	-8.77	109.18	119.70
138	M5	3	DA	P-O3'-C3'	-8.77	109.18	119.70
139	M6	16	DA	P-O3'-C3'	-8.77	109.18	119.70
145	MD	31	DA	P-O3'-C3'	-8.77	109.18	119.70
147	N3	9	DA	P-O3'-C3'	-8.77	109.18	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
154	NC	22	DA	P-O3'-C3'	-8.77	109.18	119.70
156	O2	47	DA	P-O3'-C3'	-8.77	109.18	119.70
167	P3	1	DA	P-O3'-C3'	-8.77	109.18	119.70
210	TC	26	DA	P-O3'-C3'	-8.77	109.18	119.70
222	V3	15	DA	P-O3'-C3'	-8.77	109.18	119.70
224	V7	11	DA	P-O3'-C3'	-8.77	109.18	119.70
228	VC	29	DG	OP2-P-O3'	8.77	124.48	105.20
11	AB	5990	DA	P-O3'-C3'	-8.76	109.18	119.70
11	AB	1399	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	2331	DA	P-O3'-C3'	-8.76	109.18	119.70
11	AB	3377	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	3721	DA	P-O3'-C3'	-8.76	109.18	119.70
11	AB	5142	DA	P-O3'-C3'	-8.76	109.18	119.70
11	AB	5715	DA	P-O3'-C3'	-8.76	109.18	119.70
11	AB	6218	DG	OP2-P-O3'	8.76	124.48	105.20
11	AB	6705	DA	P-O3'-C3'	-8.76	109.18	119.70
114	K1	38	DA	P-O3'-C3'	-8.76	109.18	119.70
11	AB	4115	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	4121	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	4372	DA	P-O3'-C3'	-8.76	109.18	119.70
49	E2	42	DA	P-O3'-C3'	-8.76	109.18	119.70
54	E8	20	DA	P-O3'-C3'	-8.76	109.18	119.70
11	AB	5189	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	5211	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	6347	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	6590	DA	P-O3'-C3'	-8.76	109.19	119.70
15	B2	7	DA	P-O3'-C3'	-8.76	109.19	119.70
36	CD	10	DA	P-O3'-C3'	-8.76	109.19	119.70
70	G1	2	DA	P-O3'-C3'	-8.76	109.19	119.70
82	H2	31	DA	P-O3'-C3'	-8.76	109.18	119.70
85	H6	8	DA	P-O3'-C3'	-8.76	109.19	119.70
120	K8	13	DA	P-O3'-C3'	-8.76	109.19	119.70
181	Q9	24	DA	P-O3'-C3'	-8.76	109.18	119.70
197	S7	3	DA	P-O3'-C3'	-8.76	109.19	119.70
205	T5	15	DA	P-O3'-C3'	-8.76	109.19	119.70
230	W3	34	DA	P-O3'-C3'	-8.76	109.18	119.70
1	A1	49	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	1621	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	6027	DA	P-O3'-C3'	-8.76	109.19	119.70
176	Q2	13	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	199	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	342	DA	P-O3'-C3'	-8.76	109.19	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1785	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	2215	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	7224	DA	P-O3'-C3'	-8.76	109.19	119.70
23	BA	23	DA	P-O3'-C3'	-8.76	109.19	119.70
29	C5	18	DA	P-O3'-C3'	-8.76	109.19	119.70
31	C7	32	DA	P-O3'-C3'	-8.76	109.19	119.70
38	D2	8	DA	P-O3'-C3'	-8.76	109.19	119.70
44	D9	3	DA	P-O3'-C3'	-8.76	109.19	119.70
119	K7	16	DA	P-O3'-C3'	-8.76	109.19	119.70
137	M3	23	DA	P-O3'-C3'	-8.76	109.19	119.70
145	MD	48	DA	P-O3'-C3'	-8.76	109.19	119.70
164	OC	7	DA	P-O3'-C3'	-8.76	109.19	119.70
167	P3	20	DA	P-O3'-C3'	-8.76	109.19	119.70
227	VA	26	DA	P-O3'-C3'	-8.76	109.19	119.70
6	A6	13	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	600	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	3577	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	3673	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	4123	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	4799	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	5090	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	5127	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	6804	DA	P-O3'-C3'	-8.76	109.19	119.70
30	C6	22	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	997	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	1051	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	2102	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	2745	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	2994	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	3184	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	3877	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	6116	DA	P-O3'-C3'	-8.76	109.19	119.70
27	C2	15	DA	P-O3'-C3'	-8.76	109.19	119.70
126	L2	25	DA	P-O3'-C3'	-8.76	109.19	119.70
178	Q5	2	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	3897	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	4288	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	4876	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	6363	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	6443	DA	P-O3'-C3'	-8.76	109.19	119.70
89	HA	21	DA	P-O3'-C3'	-8.76	109.19	119.70
98	I8	8	DA	P-O3'-C3'	-8.76	109.19	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
122	KA	1	DA	P-O3'-C3'	-8.76	109.19	119.70
196	S5	6	DA	P-O3'-C3'	-8.76	109.19	119.70
104	J2	24	DA	P-O3'-C3'	-8.76	109.19	119.70
160	O7	10	DA	P-O3'-C3'	-8.76	109.19	119.70
237	X7	14	DA	P-O3'-C3'	-8.76	109.19	119.70
11	AB	104	DA	P-O3'-C3'	-8.75	109.19	119.70
11	AB	240	DA	P-O3'-C3'	-8.75	109.19	119.70
11	AB	2223	DA	P-O3'-C3'	-8.75	109.19	119.70
11	AB	6376	DA	P-O3'-C3'	-8.75	109.19	119.70
11	AB	682	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	1036	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	2352	DA	P-O3'-C3'	-8.75	109.19	119.70
11	AB	1149	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	2382	DA	P-O3'-C3'	-8.75	109.20	119.70
13	AD	17	DA	P-O3'-C3'	-8.75	109.19	119.70
20	B7	7	DA	P-O3'-C3'	-8.75	109.19	119.70
11	AB	3935	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	4704	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	5219	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	6844	DA	P-O3'-C3'	-8.75	109.20	119.70
48	E1	31	DA	P-O3'-C3'	-8.75	109.20	119.70
87	H8	23	DA	P-O3'-C3'	-8.75	109.20	119.70
95	I5	2	DA	P-O3'-C3'	-8.75	109.20	119.70
102	ID	11	DA	P-O3'-C3'	-8.75	109.20	119.70
124	KD	13	DA	P-O3'-C3'	-8.75	109.19	119.70
165	OD	38	DA	P-O3'-C3'	-8.75	109.19	119.70
103	J1	1	DA	P-O3'-C3'	-8.75	109.20	119.70
121	K9	23	DA	P-O3'-C3'	-8.75	109.20	119.70
147	N3	22	DA	P-O3'-C3'	-8.75	109.20	119.70
213	U3	24	DA	P-O3'-C3'	-8.75	109.19	119.70
234	W9	17	DA	P-O3'-C3'	-8.75	109.19	119.70
156	O2	51	DA	P-O3'-C3'	-8.75	109.20	119.70
164	OC	22	DA	P-O3'-C3'	-8.75	109.20	119.70
214	U5	4	DA	P-O3'-C3'	-8.75	109.20	119.70
223	V5	29	DA	P-O3'-C3'	-8.75	109.20	119.70
227	VA	2	DA	P-O3'-C3'	-8.75	109.20	119.70
235	WD	7	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	2763	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	2953	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	4879	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	5554	DA	P-O3'-C3'	-8.75	109.20	119.70
216	U8	15	DA	P-O3'-C3'	-8.75	109.20	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
235	WD	15	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	3228	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	4581	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	5201	DA	P-O3'-C3'	-8.75	109.20	119.70
32	C8	21	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	5889	DA	P-O3'-C3'	-8.75	109.20	119.70
38	D2	2	DA	P-O3'-C3'	-8.75	109.20	119.70
58	ED	16	DA	P-O3'-C3'	-8.75	109.20	119.70
94	I3	26	DA	P-O3'-C3'	-8.75	109.20	119.70
105	J3	29	DA	P-O3'-C3'	-8.75	109.20	119.70
121	K9	29	DA	P-O3'-C3'	-8.75	109.20	119.70
122	KA	45	DA	P-O3'-C3'	-8.75	109.20	119.70
148	N5	20	DA	P-O3'-C3'	-8.75	109.20	119.70
156	O2	37	DA	P-O3'-C3'	-8.75	109.20	119.70
184	QD	3	DA	P-O3'-C3'	-8.75	109.20	119.70
195	S3	10	DA	P-O3'-C3'	-8.75	109.20	119.70
196	S5	23	DA	P-O3'-C3'	-8.75	109.20	119.70
205	T5	5	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	255	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	1043	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	1505	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	1722	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	3319	DC	O3'-P-O5'	-8.75	87.38	104.00
11	AB	3338	DA	P-O3'-C3'	-8.75	109.20	119.70
204	T3	42	DA	P-O3'-C3'	-8.75	109.20	119.70
11	AB	6288	DA	P-O3'-C3'	-8.75	109.20	119.70
59	F1	16	DA	P-O3'-C3'	-8.75	109.20	119.70
76	G8	13	DA	P-O3'-C3'	-8.75	109.20	119.70
79	GC	10	DA	P-O3'-C3'	-8.75	109.20	119.70
87	H8	10	DA	P-O3'-C3'	-8.75	109.20	119.70
90	HC	22	DA	P-O3'-C3'	-8.75	109.20	119.70
100	IA	10	DA	P-O3'-C3'	-8.75	109.20	119.70
119	K7	10	DA	P-O3'-C3'	-8.75	109.20	119.70
122	KA	24	DA	P-O3'-C3'	-8.75	109.20	119.70
127	L3	16	DA	P-O3'-C3'	-8.75	109.20	119.70
149	N6	34	DA	P-O3'-C3'	-8.75	109.20	119.70
159	O6	22	DA	P-O3'-C3'	-8.75	109.20	119.70
161	O8	33	DA	P-O3'-C3'	-8.75	109.20	119.70
165	OD	19	DA	P-O3'-C3'	-8.75	109.20	119.70
198	S8	32	DA	P-O3'-C3'	-8.75	109.20	119.70
209	TA	38	DA	P-O3'-C3'	-8.75	109.20	119.70
1	A1	25	DA	P-O3'-C3'	-8.74	109.21	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A5	29	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	47	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	1292	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	3206	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	3853	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	4359	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	6469	DA	P-O3'-C3'	-8.74	109.21	119.70
21	B8	2	DA	P-O3'-C3'	-8.74	109.21	119.70
28	C3	5	DA	P-O3'-C3'	-8.74	109.21	119.70
93	I2	1	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	4587	DA	P-O3'-C3'	-8.74	109.21	119.70
25	BD	5	DA	P-O3'-C3'	-8.74	109.21	119.70
35	CC	9	DA	P-O3'-C3'	-8.74	109.21	119.70
41	D6	15	DA	P-O3'-C3'	-8.74	109.21	119.70
122	KA	39	DA	P-O3'-C3'	-8.74	109.21	119.70
156	O2	32	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	5489	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	5740	DA	P-O3'-C3'	-8.74	109.21	119.70
73	G5	11	DA	P-O3'-C3'	-8.74	109.21	119.70
143	MA	23	DA	P-O3'-C3'	-8.74	109.21	119.70
192	RC	19	DA	P-O3'-C3'	-8.74	109.21	119.70
196	S5	19	DA	P-O3'-C3'	-8.74	109.21	119.70
238	X9	42	DA	P-O3'-C3'	-8.74	109.21	119.70
57	EC	3	DA	P-O3'-C3'	-8.74	109.21	119.70
210	TC	11	DA	P-O3'-C3'	-8.74	109.21	119.70
220	UD	21	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	467	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	1629	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	3050	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	3901	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	3957	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	4566	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	6846	DA	P-O3'-C3'	-8.74	109.21	119.70
37	D1	23	DA	P-O3'-C3'	-8.74	109.21	119.70
143	MA	35	DA	P-O3'-C3'	-8.74	109.21	119.70
148	N5	23	DA	P-O3'-C3'	-8.74	109.21	119.70
158	O5	25	DA	P-O3'-C3'	-8.74	109.21	119.70
173	PA	27	DA	P-O3'-C3'	-8.74	109.21	119.70
181	Q9	6	DA	P-O3'-C3'	-8.74	109.21	119.70
194	S2	10	DA	P-O3'-C3'	-8.74	109.21	119.70
203	T2	27	DA	P-O3'-C3'	-8.74	109.21	119.70
237	X7	6	DA	P-O3'-C3'	-8.74	109.21	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
183	QC	17	DA	P-O3'-C3'	-8.74	109.22	119.70
11	AB	210	DA	P-O3'-C3'	-8.74	109.22	119.70
11	AB	259	DA	P-O3'-C3'	-8.74	109.22	119.70
11	AB	390	DG	OP2-P-O3'	8.74	124.42	105.20
11	AB	4547	DA	P-O3'-C3'	-8.74	109.22	119.70
11	AB	4930	DA	P-O3'-C3'	-8.74	109.22	119.70
11	AB	5524	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	5350	DA	P-O3'-C3'	-8.74	109.22	119.70
11	AB	5737	DA	P-O3'-C3'	-8.74	109.22	119.70
11	AB	6972	DA	P-O3'-C3'	-8.74	109.22	119.70
25	BD	8	DA	P-O3'-C3'	-8.74	109.21	119.70
85	H6	27	DA	P-O3'-C3'	-8.74	109.21	119.70
11	AB	6987	DA	P-O3'-C3'	-8.74	109.22	119.70
18	B5	24	DA	P-O3'-C3'	-8.74	109.22	119.70
42	D7	16	DA	P-O3'-C3'	-8.74	109.22	119.70
52	E6	36	DA	P-O3'-C3'	-8.74	109.22	119.70
93	I2	12	DA	P-O3'-C3'	-8.74	109.22	119.70
107	J6	33	DA	P-O3'-C3'	-8.74	109.22	119.70
211	TD	8	DA	P-O3'-C3'	-8.74	109.22	119.70
144	MC	2	DA	P-O3'-C3'	-8.74	109.22	119.70
163	OA	9	DA	P-O3'-C3'	-8.74	109.22	119.70
165	OD	15	DA	P-O3'-C3'	-8.74	109.22	119.70
197	S7	1	DA	P-O3'-C3'	-8.74	109.22	119.70
238	X9	34	DA	P-O3'-C3'	-8.74	109.22	119.70
11	AB	271	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	504	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	4781	DA	P-O3'-C3'	-8.73	109.22	119.70
126	L2	38	DA	P-O3'-C3'	-8.73	109.22	119.70
182	QA	16	DA	P-O3'-C3'	-8.73	109.22	119.70
190	R9	40	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	2637	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	2896	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	5310	DA	P-O3'-C3'	-8.73	109.22	119.70
113	JD	27	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	5827	DA	P-O3'-C3'	-8.73	109.22	119.70
43	D8	22	DA	P-O3'-C3'	-8.73	109.22	119.70
60	F2	28	DA	P-O3'-C3'	-8.73	109.22	119.70
74	G6	11	DA	P-O3'-C3'	-8.73	109.22	119.70
130	L7	41	DA	P-O3'-C3'	-8.73	109.22	119.70
131	L8	23	DA	P-O3'-C3'	-8.73	109.22	119.70
152	N9	33	DA	P-O3'-C3'	-8.73	109.22	119.70
184	QD	6	DA	P-O3'-C3'	-8.73	109.22	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	O5	35	DA	P-O3'-C3'	-8.73	109.22	119.70
202	SD	11	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	6926	DA	P-O3'-C3'	-8.73	109.22	119.70
141	M8	8	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	324	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	528	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	1017	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	2465	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	5136	DC	O3'-P-O5'	-8.73	87.41	104.00
11	AB	4027	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	4241	DG	OP2-P-O3'	8.73	124.41	105.20
71	G2	19	DA	P-O3'-C3'	-8.73	109.22	119.70
108	J7	41	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	4716	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	4764	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	5109	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	5333	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	5630	DA	P-O3'-C3'	-8.73	109.22	119.70
19	B6	11	DA	P-O3'-C3'	-8.73	109.22	119.70
48	E1	23	DA	P-O3'-C3'	-8.73	109.22	119.70
51	E5	33	DA	P-O3'-C3'	-8.73	109.22	119.70
82	H2	24	DA	P-O3'-C3'	-8.73	109.22	119.70
117	K5	9	DA	P-O3'-C3'	-8.73	109.22	119.70
125	L1	4	DA	P-O3'-C3'	-8.73	109.22	119.70
203	T2	20	DA	P-O3'-C3'	-8.73	109.22	119.70
219	UC	29	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	1403	DA	P-O3'-C3'	-8.73	109.22	119.70
11	AB	6617	DA	P-O3'-C3'	-8.73	109.23	119.70
11	AB	6898	DA	P-O3'-C3'	-8.73	109.22	119.70
1	A1	27	DA	P-O3'-C3'	-8.73	109.23	119.70
11	AB	98	DA	P-O3'-C3'	-8.73	109.23	119.70
11	AB	6073	DA	P-O3'-C3'	-8.73	109.23	119.70
11	AB	6537	DA	P-O3'-C3'	-8.73	109.22	119.70
44	D9	9	DA	P-O3'-C3'	-8.73	109.23	119.70
47	DD	32	DA	P-O3'-C3'	-8.73	109.22	119.70
63	F6	14	DA	P-O3'-C3'	-8.73	109.22	119.70
133	LA	16	DA	P-O3'-C3'	-8.73	109.23	119.70
221	V2	5	DA	P-O3'-C3'	-8.73	109.23	119.70
11	AB	478	DA	P-O3'-C3'	-8.73	109.23	119.70
11	AB	488	DA	P-O3'-C3'	-8.73	109.23	119.70
11	AB	3080	DA	P-O3'-C3'	-8.73	109.23	119.70
11	AB	4912	DA	P-O3'-C3'	-8.73	109.23	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5415	DA	P-O3'-C3'	-8.73	109.23	119.70
104	J2	9	DA	P-O3'-C3'	-8.73	109.23	119.70
22	B9	31	DA	P-O3'-C3'	-8.73	109.23	119.70
125	L1	27	DA	P-O3'-C3'	-8.73	109.23	119.70
156	O2	55	DA	P-O3'-C3'	-8.73	109.23	119.70
175	PD	9	DA	P-O3'-C3'	-8.73	109.23	119.70
7	A7	30	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	4059	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	4486	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	6370	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	6609	DA	P-O3'-C3'	-8.72	109.23	119.70
22	B9	37	DA	P-O3'-C3'	-8.72	109.23	119.70
37	D1	20	DA	P-O3'-C3'	-8.72	109.23	119.70
77	G9	4	DA	P-O3'-C3'	-8.72	109.23	119.70
32	C8	33	DA	P-O3'-C3'	-8.72	109.23	119.70
104	J2	6	DA	P-O3'-C3'	-8.72	109.23	119.70
123	KC	24	DA	P-O3'-C3'	-8.72	109.23	119.70
128	L5	19	DA	P-O3'-C3'	-8.72	109.23	119.70
206	T7	19	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	763	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	5962	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	1195	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	1996	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	2447	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	6553	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	6952	DA	P-O3'-C3'	-8.72	109.23	119.70
47	DD	18	DA	P-O3'-C3'	-8.72	109.23	119.70
48	E1	15	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	2562	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	4634	DA	P-O3'-C3'	-8.72	109.24	119.70
62	F5	15	DA	P-O3'-C3'	-8.72	109.24	119.70
96	I6	16	DA	P-O3'-C3'	-8.72	109.23	119.70
117	K5	7	DA	P-O3'-C3'	-8.72	109.23	119.70
108	J7	45	DA	P-O3'-C3'	-8.72	109.24	119.70
137	M3	31	DA	P-O3'-C3'	-8.72	109.23	119.70
189	R8	22	DA	P-O3'-C3'	-8.72	109.23	119.70
11	AB	553	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	708	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	2644	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	4342	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	4499	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	4631	DA	P-O3'-C3'	-8.72	109.24	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5851	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	6683	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	6702	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	7113	DA	P-O3'-C3'	-8.72	109.24	119.70
35	CC	33	DA	P-O3'-C3'	-8.72	109.24	119.70
109	J8	46	DA	P-O3'-C3'	-8.72	109.24	119.70
115	K2	28	DA	P-O3'-C3'	-8.72	109.24	119.70
97	I7	9	DA	P-O3'-C3'	-8.72	109.24	119.70
198	S8	36	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	292	DA	P-O3'-C3'	-8.71	109.24	119.70
11	AB	526	DG	OP2-P-O3'	8.71	124.37	105.20
11	AB	2146	DA	P-O3'-C3'	-8.72	109.24	119.70
69	FD	42	DA	P-O3'-C3'	-8.72	109.24	119.70
11	AB	1117	DA	P-O3'-C3'	-8.71	109.24	119.70
11	AB	2387	DA	P-O3'-C3'	-8.71	109.24	119.70
11	AB	3874	DA	P-O3'-C3'	-8.72	109.24	119.70
43	D8	38	DA	P-O3'-C3'	-8.72	109.24	119.70
97	I7	19	DA	P-O3'-C3'	-8.71	109.24	119.70
103	J1	6	DA	P-O3'-C3'	-8.72	109.24	119.70
189	R8	36	DA	P-O3'-C3'	-8.72	109.24	119.70
201	SC	8	DA	P-O3'-C3'	-8.71	109.24	119.70
11	AB	298	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	2371	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	3290	DA	P-O3'-C3'	-8.71	109.25	119.70
41	D6	12	DA	P-O3'-C3'	-8.71	109.25	119.70
69	FD	15	DA	P-O3'-C3'	-8.71	109.24	119.70
72	G3	23	DA	P-O3'-C3'	-8.71	109.24	119.70
173	PA	34	DA	P-O3'-C3'	-8.71	109.24	119.70
11	AB	462	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	4051	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	5153	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	5830	DA	P-O3'-C3'	-8.71	109.25	119.70
109	J8	8	DA	P-O3'-C3'	-8.71	109.25	119.70
55	E9	39	DA	P-O3'-C3'	-8.71	109.25	119.70
162	O9	15	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	279	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	543	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	1920	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	2259	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	4838	DA	P-O3'-C3'	-8.71	109.25	119.70
161	O8	19	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	6329	DA	P-O3'-C3'	-8.71	109.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
126	L2	7	DA	P-O3'-C3'	-8.71	109.25	119.70
205	T5	13	DA	P-O3'-C3'	-8.71	109.25	119.70
1	A1	44	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	274	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	829	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	2241	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	3922	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	4016	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	5038	DA	P-O3'-C3'	-8.71	109.25	119.70
158	O5	18	DA	P-O3'-C3'	-8.71	109.25	119.70
11	AB	5165	DA	P-O3'-C3'	-8.70	109.25	119.70
11	AB	5900	DA	P-O3'-C3'	-8.71	109.25	119.70
14	B1	30	DA	P-O3'-C3'	-8.70	109.25	119.70
230	W3	15	DA	P-O3'-C3'	-8.70	109.25	119.70
11	AB	6763	DA	P-O3'-C3'	-8.70	109.26	119.70
11	AB	6015	DA	P-O3'-C3'	-8.70	109.26	119.70
238	X9	13	DA	P-O3'-C3'	-8.70	109.26	119.70
11	AB	5258	DA	P-O3'-C3'	-8.70	109.26	119.70
112	JC	9	DA	P-O3'-C3'	-8.70	109.26	119.70
174	PC	5	DA	P-O3'-C3'	-8.70	109.26	119.70
11	AB	349	DA	P-O3'-C3'	-8.70	109.27	119.70
85	H6	34	DA	P-O3'-C3'	-8.70	109.27	119.70
47	DD	43	DA	P-O3'-C3'	-8.69	109.27	119.70
11	AB	5344	DA	P-O3'-C3'	-8.69	109.27	119.70
11	AB	6391	DA	P-O3'-C3'	-8.69	109.27	119.70
73	G5	19	DA	P-O3'-C3'	-8.69	109.27	119.70
196	S5	15	DA	P-O3'-C3'	-8.69	109.27	119.70
11	AB	6223	DG	OP2-P-O3'	8.69	124.31	105.20
75	G7	9	DA	P-O3'-C3'	-8.69	109.27	119.70
105	J3	22	DA	P-O3'-C3'	-8.69	109.27	119.70
229	VD	14	DA	P-O3'-C3'	-8.69	109.27	119.70
11	AB	4896	DA	P-O3'-C3'	-8.69	109.28	119.70
11	AB	661	DG	OP2-P-O3'	8.68	124.30	105.20
11	AB	4990	DA	P-O3'-C3'	-8.68	109.28	119.70
210	TC	21	DA	P-O3'-C3'	-8.68	109.28	119.70
143	MA	25	DA	P-O3'-C3'	-8.68	109.28	119.70
11	AB	77	DA	P-O3'-C3'	-8.67	109.30	119.70
11	AB	5860	DG	OP2-P-O3'	8.67	124.27	105.20
11	AB	4184	DG	OP2-P-O3'	8.66	124.25	105.20
11	AB	6306	DG	O3'-P-O5'	-8.63	87.60	104.00
11	AB	3945	DG	O3'-P-O5'	-8.63	87.61	104.00
11	AB	5533	DG	O3'-P-O5'	-8.63	87.61	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	659	DG	O3'-P-O5'	-8.62	87.61	104.00
11	AB	6099	DG	O3'-P-O5'	-8.62	87.61	104.00
169	P6	9	DG	O3'-P-O5'	-8.62	87.61	104.00
11	AB	6421	DG	O3'-P-O5'	-8.62	87.62	104.00
30	C6	43	DG	O3'-P-O5'	-8.62	87.62	104.00
204	T3	4	DG	O3'-P-O5'	-8.62	87.62	104.00
11	AB	374	DG	O3'-P-O5'	-8.62	87.62	104.00
11	AB	861	DG	O3'-P-O5'	-8.62	87.62	104.00
11	AB	675	DG	O3'-P-O5'	-8.62	87.63	104.00
11	AB	1125	DG	O3'-P-O5'	-8.62	87.63	104.00
11	AB	1803	DG	O3'-P-O5'	-8.62	87.63	104.00
45	DA	13	DG	O3'-P-O5'	-8.62	87.63	104.00
67	FA	31	DG	O3'-P-O5'	-8.62	87.63	104.00
173	PA	3	DG	O3'-P-O5'	-8.62	87.63	104.00
216	U8	18	DG	O3'-P-O5'	-8.62	87.63	104.00
11	AB	957	DG	O3'-P-O5'	-8.62	87.63	104.00
11	AB	1572	DG	O3'-P-O5'	-8.61	87.63	104.00
11	AB	4523	DG	O3'-P-O5'	-8.62	87.63	104.00
44	D9	17	DG	O3'-P-O5'	-8.61	87.63	104.00
91	HD	25	DG	O3'-P-O5'	-8.61	87.63	104.00
113	JD	11	DG	O3'-P-O5'	-8.62	87.63	104.00
144	MC	12	DG	O3'-P-O5'	-8.62	87.63	104.00
199	S9	5	DG	O3'-P-O5'	-8.62	87.63	104.00
222	V3	24	DG	O3'-P-O5'	-8.62	87.63	104.00
11	AB	2591	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	2262	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	3460	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	3774	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	3475	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	7216	DG	O3'-P-O5'	-8.61	87.64	104.00
108	J7	34	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	373	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	1152	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	3520	DG	O3'-P-O5'	-8.61	87.64	104.00
206	T7	54	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	4087	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	6882	DG	O3'-P-O5'	-8.61	87.64	104.00
111	JA	12	DG	O3'-P-O5'	-8.61	87.64	104.00
119	K7	21	DG	O3'-P-O5'	-8.61	87.64	104.00
125	L1	6	DG	O3'-P-O5'	-8.61	87.64	104.00
125	L1	48	DG	O3'-P-O5'	-8.61	87.64	104.00
160	O7	47	DG	O3'-P-O5'	-8.61	87.64	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
185	R2	19	DG	O3'-P-O5'	-8.61	87.64	104.00
11	AB	366	DG	O3'-P-O5'	-8.61	87.65	104.00
11	AB	641	DG	O3'-P-O5'	-8.61	87.65	104.00
11	AB	2344	DG	O3'-P-O5'	-8.61	87.65	104.00
188	R7	28	DG	O3'-P-O5'	-8.61	87.65	104.00
11	AB	452	DG	O3'-P-O5'	-8.61	87.65	104.00
11	AB	4421	DG	O3'-P-O5'	-8.61	87.65	104.00
135	LD	6	DG	O3'-P-O5'	-8.61	87.65	104.00
11	AB	6308	DG	O3'-P-O5'	-8.61	87.65	104.00
11	AB	6491	DG	O3'-P-O5'	-8.61	87.65	104.00
28	C3	20	DG	O3'-P-O5'	-8.61	87.65	104.00
36	CD	6	DG	O3'-P-O5'	-8.61	87.65	104.00
79	GC	3	DG	O3'-P-O5'	-8.61	87.65	104.00
88	H9	30	DG	O3'-P-O5'	-8.61	87.65	104.00
144	MC	8	DG	O3'-P-O5'	-8.61	87.65	104.00
150	N7	14	DG	O3'-P-O5'	-8.61	87.65	104.00
11	AB	945	DG	O3'-P-O5'	-8.60	87.65	104.00
11	AB	954	DG	O3'-P-O5'	-8.60	87.65	104.00
11	AB	3517	DG	O3'-P-O5'	-8.60	87.65	104.00
5	A5	38	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	265	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	408	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	938	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	4276	DG	O3'-P-O5'	-8.60	87.65	104.00
11	AB	1143	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	1977	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	3778	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	6963	DG	O3'-P-O5'	-8.60	87.66	104.00
28	C3	19	DG	O3'-P-O5'	-8.60	87.65	104.00
77	G9	17	DG	O3'-P-O5'	-8.60	87.65	104.00
108	J7	30	DG	O3'-P-O5'	-8.60	87.65	104.00
11	AB	3781	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	4437	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	6087	DG	O3'-P-O5'	-8.60	87.65	104.00
76	G8	19	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	4524	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	5694	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	6942	DG	O3'-P-O5'	-8.60	87.66	104.00
51	E5	24	DG	O3'-P-O5'	-8.60	87.66	104.00
66	F9	15	DG	O3'-P-O5'	-8.60	87.66	104.00
78	GA	2	DG	O3'-P-O5'	-8.60	87.66	104.00
79	GC	4	DG	O3'-P-O5'	-8.60	87.66	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	GD	12	DG	O3'-P-O5'	-8.60	87.66	104.00
144	MC	9	DG	O3'-P-O5'	-8.60	87.66	104.00
152	N9	2	DG	O3'-P-O5'	-8.60	87.66	104.00
156	O2	39	DG	O3'-P-O5'	-8.60	87.66	104.00
172	P9	19	DG	O3'-P-O5'	-8.60	87.66	104.00
10	AA	26	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	384	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	407	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	414	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	1978	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	4950	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	5388	DG	O3'-P-O5'	-8.60	87.66	104.00
106	J5	6	DG	O3'-P-O5'	-8.60	87.66	104.00
204	T3	17	DG	O3'-P-O5'	-8.60	87.66	104.00
217	U9	23	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	411	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	639	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	963	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	1983	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	3151	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	4759	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	5390	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	6244	DG	O3'-P-O5'	-8.60	87.66	104.00
57	EC	9	DG	O3'-P-O5'	-8.60	87.66	104.00
88	H9	20	DG	O3'-P-O5'	-8.60	87.66	104.00
88	H9	21	DG	O3'-P-O5'	-8.60	87.66	104.00
103	J1	8	DG	O3'-P-O5'	-8.60	87.66	104.00
97	I7	25	DG	O3'-P-O5'	-8.60	87.66	104.00
147	N3	19	DG	O3'-P-O5'	-8.60	87.66	104.00
151	N8	19	DG	O3'-P-O5'	-8.60	87.66	104.00
167	P3	3	DG	O3'-P-O5'	-8.60	87.66	104.00
209	TA	5	DG	O3'-P-O5'	-8.60	87.66	104.00
11	AB	426	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	939	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	942	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	2415	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	1137	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	1943	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	2122	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	3676	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	4091	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	4248	DG	O3'-P-O5'	-8.60	87.67	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6345	DG	O3'-P-O5'	-8.60	87.67	104.00
30	C6	36	DG	O3'-P-O5'	-8.60	87.67	104.00
57	EC	10	DG	O3'-P-O5'	-8.60	87.67	104.00
95	I5	33	DG	O3'-P-O5'	-8.60	87.67	104.00
125	L1	49	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	4295	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	6123	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	7083	DG	O3'-P-O5'	-8.60	87.67	104.00
37	D1	11	DG	O3'-P-O5'	-8.60	87.67	104.00
57	EC	11	DG	O3'-P-O5'	-8.60	87.67	104.00
76	G8	18	DG	O3'-P-O5'	-8.60	87.67	104.00
89	HA	12	DG	O3'-P-O5'	-8.60	87.67	104.00
89	HA	24	DG	O3'-P-O5'	-8.60	87.67	104.00
99	I9	24	DG	O3'-P-O5'	-8.60	87.67	104.00
125	L1	53	DG	O3'-P-O5'	-8.60	87.67	104.00
213	U3	5	DG	O3'-P-O5'	-8.60	87.67	104.00
178	Q5	29	DG	O3'-P-O5'	-8.60	87.67	104.00
228	VC	39	DG	O3'-P-O5'	-8.60	87.67	104.00
11	AB	581	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	438	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	638	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	816	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	855	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	1089	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	1526	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	1851	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	2118	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	2594	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	3154	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	4226	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	3688	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	3837	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	4550	DG	O3'-P-O5'	-8.59	87.67	104.00
69	FD	8	DG	O3'-P-O5'	-8.59	87.67	104.00
77	G9	18	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	4731	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	4864	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	5719	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	6307	DG	O3'-P-O5'	-8.59	87.67	104.00
23	BA	33	DG	O3'-P-O5'	-8.59	87.67	104.00
89	HA	11	DG	O3'-P-O5'	-8.59	87.67	104.00
92	I1	22	DG	O3'-P-O5'	-8.59	87.67	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
95	I5	11	DG	O3'-P-O5'	-8.59	87.67	104.00
95	I5	32	DG	O3'-P-O5'	-8.59	87.67	104.00
150	N7	13	DG	O3'-P-O5'	-8.59	87.67	104.00
97	I7	24	DG	O3'-P-O5'	-8.59	87.67	104.00
109	J8	33	DG	O3'-P-O5'	-8.59	87.68	104.00
116	K3	15	DG	O3'-P-O5'	-8.59	87.67	104.00
125	L1	54	DG	O3'-P-O5'	-8.59	87.67	104.00
154	NC	34	DG	O3'-P-O5'	-8.59	87.68	104.00
202	SD	14	DG	O3'-P-O5'	-8.59	87.67	104.00
204	T3	3	DG	O3'-P-O5'	-8.59	87.67	104.00
217	U9	20	DG	O3'-P-O5'	-8.59	87.68	104.00
230	W3	38	DG	O3'-P-O5'	-8.59	87.67	104.00
11	AB	385	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	429	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	1010	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	2603	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	1164	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	2856	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	4227	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	4454	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	5923	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	6309	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	6729	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	7195	DG	O3'-P-O5'	-8.59	87.68	104.00
78	GA	12	DG	O3'-P-O5'	-8.59	87.68	104.00
86	H7	13	DG	O3'-P-O5'	-8.59	87.68	104.00
147	N3	4	DG	O3'-P-O5'	-8.59	87.68	104.00
149	N6	49	DG	O3'-P-O5'	-8.59	87.68	104.00
160	O7	42	DG	O3'-P-O5'	-8.59	87.68	104.00
4	A4	10	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	441	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	4296	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	5119	DG	OP2-P-O3'	8.59	124.09	105.20
11	AB	5288	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	7069	DG	O3'-P-O5'	-8.59	87.69	104.00
76	G8	3	DG	O3'-P-O5'	-8.59	87.69	104.00
79	GC	17	DG	O3'-P-O5'	-8.59	87.68	104.00
94	I3	32	DG	O3'-P-O5'	-8.59	87.68	104.00
155	ND	13	DG	O3'-P-O5'	-8.59	87.68	104.00
157	O3	18	DG	O3'-P-O5'	-8.59	87.68	104.00
11	AB	927	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	1519	DG	O3'-P-O5'	-8.59	87.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1520	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	1824	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	1835	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	2095	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	2687	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	3472	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	4277	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	6243	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	6728	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	7065	DG	O3'-P-O5'	-8.59	87.69	104.00
33	C9	1	DG	O3'-P-O5'	-8.59	87.69	104.00
63	F6	5	DG	O3'-P-O5'	-8.59	87.69	104.00
64	F7	14	DG	O3'-P-O5'	-8.59	87.69	104.00
90	HC	7	DG	O3'-P-O5'	-8.59	87.69	104.00
175	PD	20	DG	O3'-P-O5'	-8.59	87.69	104.00
185	R2	4	DG	O3'-P-O5'	-8.59	87.69	104.00
191	RA	5	DG	O3'-P-O5'	-8.59	87.69	104.00
11	AB	497	DG	O3'-P-O5'	-8.58	87.69	104.00
11	AB	2696	DG	O3'-P-O5'	-8.58	87.69	104.00
11	AB	3985	DG	O3'-P-O5'	-8.58	87.69	104.00
39	D3	28	DG	O3'-P-O5'	-8.58	87.69	104.00
11	AB	422	DG	O3'-P-O5'	-8.58	87.69	104.00
11	AB	969	DG	O3'-P-O5'	-8.58	87.69	104.00
11	AB	1007	DG	O3'-P-O5'	-8.58	87.69	104.00
11	AB	1797	DG	O3'-P-O5'	-8.58	87.69	104.00
11	AB	2228	DA	P-O3'-C3'	-8.58	109.40	119.70
11	AB	3952	DG	O3'-P-O5'	-8.58	87.69	104.00
11	AB	5593	DG	O3'-P-O5'	-8.58	87.69	104.00
42	D7	7	DG	O3'-P-O5'	-8.58	87.69	104.00
84	H5	6	DG	O3'-P-O5'	-8.58	87.69	104.00
191	RA	6	DG	O3'-P-O5'	-8.58	87.69	104.00
203	T2	13	DG	O3'-P-O5'	-8.58	87.69	104.00
227	VA	19	DG	O3'-P-O5'	-8.58	87.69	104.00
230	W3	37	DG	O3'-P-O5'	-8.58	87.69	104.00
49	E2	6	DG	O3'-P-O5'	-8.58	87.69	104.00
113	JD	10	DG	O3'-P-O5'	-8.58	87.69	104.00
123	KC	11	DG	O3'-P-O5'	-8.58	87.69	104.00
183	QC	10	DG	O3'-P-O5'	-8.58	87.69	104.00
206	T7	39	DG	O3'-P-O5'	-8.58	87.69	104.00
231	W5	6	DG	O3'-P-O5'	-8.58	87.69	104.00
231	W5	7	DG	O3'-P-O5'	-8.58	87.69	104.00
1	A1	41	DG	O3'-P-O5'	-8.58	87.70	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	453	DG	O3'-P-O5'	-8.58	87.69	104.00
11	AB	873	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	444	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	858	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	2355	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	3292	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	3448	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	4420	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	6816	DG	O3'-P-O5'	-8.58	87.70	104.00
14	B1	32	DG	O3'-P-O5'	-8.58	87.70	104.00
88	H9	22	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	5083	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	6837	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	6873	DG	O3'-P-O5'	-8.58	87.70	104.00
22	B9	13	DG	O3'-P-O5'	-8.58	87.70	104.00
36	CD	5	DG	O3'-P-O5'	-8.58	87.70	104.00
41	D6	18	DG	O3'-P-O5'	-8.58	87.70	104.00
58	ED	31	DG	O3'-P-O5'	-8.58	87.70	104.00
70	G1	5	DG	O3'-P-O5'	-8.58	87.70	104.00
112	JC	1	DG	O3'-P-O5'	-8.58	87.70	104.00
130	L7	55	DG	O3'-P-O5'	-8.58	87.70	104.00
188	R7	13	DG	O3'-P-O5'	-8.58	87.70	104.00
150	N7	5	DG	O3'-P-O5'	-8.58	87.70	104.00
202	SD	15	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	8	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	660	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	3123	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	437	DG	O3'-P-O5'	-8.58	87.71	104.00
11	AB	1909	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	2544	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	2697	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	3795	DG	O3'-P-O5'	-8.58	87.70	104.00
11	AB	5814	DG	O3'-P-O5'	-8.58	87.70	104.00
28	C3	18	DG	O3'-P-O5'	-8.58	87.70	104.00
126	L2	16	DG	O3'-P-O5'	-8.58	87.71	104.00
177	Q3	19	DG	O3'-P-O5'	-8.58	87.70	104.00
204	T3	23	DG	O3'-P-O5'	-8.58	87.71	104.00
229	VD	7	DG	O3'-P-O5'	-8.58	87.70	104.00
207	T8	22	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	525	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	706	DA	P-O3'-C3'	-8.57	109.41	119.70
11	AB	4099	DG	O3'-P-O5'	-8.57	87.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1493	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	1702	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	3529	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	4571	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	5016	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	5167	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	5718	DG	O3'-P-O5'	-8.57	87.71	104.00
42	D7	18	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	7196	DG	O3'-P-O5'	-8.57	87.71	104.00
133	LA	2	DG	O3'-P-O5'	-8.57	87.71	104.00
136	M2	16	DG	O3'-P-O5'	-8.57	87.71	104.00
223	V5	21	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	423	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	951	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	1009	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	4484	DG	O3'-P-O5'	-8.57	87.71	104.00
18	B5	12	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	148	DA	P-O3'-C3'	-8.57	109.42	119.70
11	AB	1104	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	3553	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	4471	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	5009	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	5241	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	5763	DG	O3'-P-O5'	-8.57	87.72	104.00
30	C6	44	DG	O3'-P-O5'	-8.57	87.72	104.00
48	E1	11	DG	O3'-P-O5'	-8.57	87.72	104.00
106	J5	33	DG	O3'-P-O5'	-8.57	87.71	104.00
123	KC	22	DG	O3'-P-O5'	-8.57	87.72	104.00
136	M2	17	DG	O3'-P-O5'	-8.57	87.71	104.00
156	O2	10	DG	O3'-P-O5'	-8.57	87.72	104.00
168	P5	9	DG	O3'-P-O5'	-8.57	87.72	104.00
179	Q7	21	DG	O3'-P-O5'	-8.57	87.72	104.00
213	U3	10	DG	O3'-P-O5'	-8.57	87.71	104.00
11	AB	5276	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	5734	DG	O3'-P-O5'	-8.57	87.72	104.00
28	C3	13	DG	O3'-P-O5'	-8.57	87.72	104.00
51	E5	23	DG	O3'-P-O5'	-8.57	87.72	104.00
80	GD	19	DG	O3'-P-O5'	-8.57	87.72	104.00
158	O5	6	DG	O3'-P-O5'	-8.57	87.72	104.00
160	O7	4	DG	O3'-P-O5'	-8.57	87.72	104.00
174	PC	10	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	640	DG	O3'-P-O5'	-8.57	87.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1338	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	2733	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	2900	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	3916	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	5065	DG	O3'-P-O5'	-8.57	87.72	104.00
11	AB	5252	DG	O3'-P-O5'	-8.57	87.72	104.00
39	D3	2	DG	O3'-P-O5'	-8.57	87.72	104.00
40	D5	18	DG	O3'-P-O5'	-8.57	87.72	104.00
148	N5	29	DG	O3'-P-O5'	-8.57	87.72	104.00
42	D7	8	DG	O3'-P-O5'	-8.57	87.72	104.00
7	A7	14	DG	O3'-P-O5'	-8.56	87.73	104.00
9	A9	18	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	498	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	1008	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	18	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	930	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	4096	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	4470	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	2455	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	4090	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	4314	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	4399	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	7003	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	4607	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	4813	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	5371	DA	P-O3'-C3'	-8.56	109.42	119.70
28	C3	14	DG	O3'-P-O5'	-8.56	87.73	104.00
134	LC	18	DG	O3'-P-O5'	-8.56	87.73	104.00
158	O5	5	DG	O3'-P-O5'	-8.56	87.73	104.00
187	R5	20	DG	O3'-P-O5'	-8.56	87.73	104.00
218	UA	13	DG	O3'-P-O5'	-8.56	87.73	104.00
231	W5	5	DG	O3'-P-O5'	-8.56	87.73	104.00
3	A3	13	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	540	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	305	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	780	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	923	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	908	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	2037	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	4858	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	2072	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	2950	DG	O3'-P-O5'	-8.56	87.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4357	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	5659	DG	O3'-P-O5'	-8.56	87.74	104.00
14	B1	2	DG	O3'-P-O5'	-8.56	87.74	104.00
23	BA	16	DG	O3'-P-O5'	-8.56	87.74	104.00
85	H6	16	DG	O3'-P-O5'	-8.56	87.74	104.00
188	R7	7	DG	O3'-P-O5'	-8.56	87.73	104.00
233	W8	14	DG	O3'-P-O5'	-8.56	87.73	104.00
11	AB	5389	DG	O3'-P-O5'	-8.56	87.74	104.00
120	K8	8	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	634	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	3394	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	4646	DA	P-O3'-C3'	-8.56	109.43	119.70
11	AB	5892	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	5954	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	6520	DG	O3'-P-O5'	-8.56	87.74	104.00
13	AD	32	DG	O3'-P-O5'	-8.56	87.74	104.00
76	G8	6	DG	O3'-P-O5'	-8.56	87.74	104.00
50	E3	1	DG	O3'-P-O5'	-8.56	87.74	104.00
81	H1	12	DG	O3'-P-O5'	-8.56	87.74	104.00
82	H2	54	DG	O3'-P-O5'	-8.56	87.74	104.00
92	I1	14	DG	O3'-P-O5'	-8.56	87.74	104.00
98	I8	33	DG	O3'-P-O5'	-8.56	87.74	104.00
102	ID	4	DG	O3'-P-O5'	-8.56	87.74	104.00
131	L8	26	DG	O3'-P-O5'	-8.56	87.74	104.00
238	X9	25	DG	O3'-P-O5'	-8.56	87.74	104.00
98	I8	34	DG	O3'-P-O5'	-8.56	87.74	104.00
109	J8	11	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	750	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	882	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	7109	DG	O3'-P-O5'	-8.56	87.74	104.00
94	I3	58	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	992	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	1113	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	7163	DA	P-O3'-C3'	-8.55	109.43	119.70
21	B8	15	DG	O3'-P-O5'	-8.55	87.75	104.00
44	D9	26	DG	O3'-P-O5'	-8.56	87.75	104.00
117	K5	43	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	1469	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	1756	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	1769	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	3043	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	3628	DG	O3'-P-O5'	-8.55	87.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6447	DG	O3'-P-O5'	-8.56	87.74	104.00
11	AB	3636	DG	O3'-P-O5'	-8.55	87.75	104.00
44	D9	23	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	5248	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	6438	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	6448	DG	O3'-P-O5'	-8.55	87.75	104.00
24	BC	22	DG	O3'-P-O5'	-8.55	87.75	104.00
43	D8	8	DG	O3'-P-O5'	-8.55	87.75	104.00
51	E5	7	DG	O3'-P-O5'	-8.55	87.75	104.00
132	L9	11	DG	O3'-P-O5'	-8.55	87.75	104.00
133	LA	12	DG	O3'-P-O5'	-8.56	87.74	104.00
153	NA	21	DG	O3'-P-O5'	-8.56	87.74	104.00
159	O6	10	DG	O3'-P-O5'	-8.55	87.75	104.00
178	Q5	38	DG	O3'-P-O5'	-8.55	87.75	104.00
189	R8	27	DG	O3'-P-O5'	-8.55	87.75	104.00
204	T3	38	DG	O3'-P-O5'	-8.55	87.75	104.00
213	U3	11	DG	O3'-P-O5'	-8.56	87.74	104.00
209	TA	15	DG	O3'-P-O5'	-8.55	87.75	104.00
209	TA	29	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	53	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	345	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	2013	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	2478	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	3393	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	137	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	915	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	4509	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	5972	DG	O3'-P-O5'	-8.55	87.75	104.00
16	B3	17	DG	O3'-P-O5'	-8.55	87.75	104.00
98	I8	32	DG	O3'-P-O5'	-8.55	87.75	104.00
106	J5	29	DG	O3'-P-O5'	-8.55	87.75	104.00
122	KA	12	DG	O3'-P-O5'	-8.55	87.75	104.00
153	NA	13	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	1640	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	1750	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	2781	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	3213	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	4628	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	4845	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	5123	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	5203	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	6774	DG	O3'-P-O5'	-8.55	87.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	C6	16	DG	O3'-P-O5'	-8.55	87.75	104.00
35	CC	30	DG	O3'-P-O5'	-8.55	87.76	104.00
101	IC	18	DG	O3'-P-O5'	-8.55	87.75	104.00
104	J2	12	DG	O3'-P-O5'	-8.55	87.75	104.00
122	KA	27	DG	O3'-P-O5'	-8.55	87.75	104.00
123	KC	18	DG	O3'-P-O5'	-8.55	87.75	104.00
123	KC	21	DG	O3'-P-O5'	-8.55	87.76	104.00
230	W3	41	DG	O3'-P-O5'	-8.55	87.75	104.00
11	AB	745	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	1592	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	4637	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	5112	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	5482	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	456	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	791	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	885	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	900	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	1788	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	1882	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	2310	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	4073	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	4656	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	2917	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	4335	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	4508	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	4821	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	5028	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	5410	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	5955	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	6936	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	7016	DG	O3'-P-O5'	-8.55	87.76	104.00
18	B5	11	DG	O3'-P-O5'	-8.55	87.76	104.00
24	BC	11	DG	O3'-P-O5'	-8.55	87.76	104.00
27	C2	5	DG	O3'-P-O5'	-8.55	87.76	104.00
32	C8	46	DG	O3'-P-O5'	-8.55	87.76	104.00
61	F3	9	DG	O3'-P-O5'	-8.55	87.76	104.00
102	ID	23	DG	O3'-P-O5'	-8.55	87.76	104.00
156	O2	18	DG	O3'-P-O5'	-8.55	87.76	104.00
108	J7	11	DG	O3'-P-O5'	-8.55	87.76	104.00
174	PC	19	DG	O3'-P-O5'	-8.55	87.76	104.00
218	UA	6	DG	O3'-P-O5'	-8.55	87.76	104.00
10	AA	20	DG	O3'-P-O5'	-8.54	87.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	867	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	870	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	1591	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	3418	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	3652	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	5053	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	5556	DG	O3'-P-O5'	-8.55	87.76	104.00
144	MC	4	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	113	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	480	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	894	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	909	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	2062	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	2451	DG	O3'-P-O5'	-8.54	87.76	104.00
11	AB	3087	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	3212	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	6188	DG	O3'-P-O5'	-8.55	87.76	104.00
11	AB	4212	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	4517	DG	O3'-P-O5'	-8.54	87.76	104.00
11	AB	4891	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	4966	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	5191	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	6917	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	7015	DG	O3'-P-O5'	-8.54	87.76	104.00
11	AB	7018	DG	O3'-P-O5'	-8.54	87.77	104.00
95	I5	36	DG	O3'-P-O5'	-8.54	87.76	104.00
144	MC	5	DG	O3'-P-O5'	-8.55	87.76	104.00
113	JD	3	DG	O3'-P-O5'	-8.54	87.77	104.00
113	JD	4	DG	O3'-P-O5'	-8.54	87.77	104.00
131	L8	25	DG	O3'-P-O5'	-8.54	87.77	104.00
166	P2	21	DG	O3'-P-O5'	-8.54	87.77	104.00
195	S3	1	DG	O3'-P-O5'	-8.54	87.77	104.00
201	SC	11	DG	O3'-P-O5'	-8.54	87.77	104.00
231	W5	23	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	327	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	1197	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	1755	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	1480	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	1906	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	2044	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	3879	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	3913	DG	O3'-P-O5'	-8.54	87.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B1	1	DG	O3'-P-O5'	-8.54	87.77	104.00
22	B9	8	DG	O3'-P-O5'	-8.54	87.77	104.00
107	J6	40	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	2144	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	3408	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	4187	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	4777	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	4890	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	6269	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	6930	DG	O3'-P-O5'	-8.54	87.77	104.00
16	B3	16	DG	O3'-P-O5'	-8.54	87.77	104.00
29	C5	32	DG	O3'-P-O5'	-8.54	87.77	104.00
31	C7	19	DG	O3'-P-O5'	-8.54	87.77	104.00
32	C8	36	DG	O3'-P-O5'	-8.54	87.77	104.00
92	I1	13	DG	O3'-P-O5'	-8.54	87.77	104.00
94	I3	57	DG	O3'-P-O5'	-8.54	87.77	104.00
97	I7	30	DG	O3'-P-O5'	-8.54	87.77	104.00
99	I9	20	DG	O3'-P-O5'	-8.54	87.77	104.00
122	KA	11	DG	O3'-P-O5'	-8.54	87.77	104.00
158	O5	49	DG	O3'-P-O5'	-8.54	87.77	104.00
194	S2	14	DG	O3'-P-O5'	-8.54	87.77	104.00
213	U3	12	DG	O3'-P-O5'	-8.54	87.77	104.00
223	V5	9	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	25	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	41	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	912	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	1287	DG	O3'-P-O5'	-8.54	87.77	104.00
188	R7	2	DG	O3'-P-O5'	-8.54	87.77	104.00
196	S5	12	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	879	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	893	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	1181	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	1905	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	5658	DG	O3'-P-O5'	-8.54	87.77	104.00
234	W9	7	DG	O3'-P-O5'	-8.54	87.77	104.00
11	AB	3810	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	4215	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	4398	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	4514	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	4649	DG	O3'-P-O5'	-8.54	87.78	104.00
60	F2	19	DG	O3'-P-O5'	-8.54	87.78	104.00
80	GD	20	DG	O3'-P-O5'	-8.54	87.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4701	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	5412	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	6136	DG	O3'-P-O5'	-8.54	87.78	104.00
64	F7	19	DG	O3'-P-O5'	-8.54	87.78	104.00
94	I3	39	DG	O3'-P-O5'	-8.54	87.78	104.00
120	K8	9	DG	O3'-P-O5'	-8.54	87.78	104.00
109	J8	27	DG	O3'-P-O5'	-8.54	87.78	104.00
191	RA	26	DG	O3'-P-O5'	-8.54	87.78	104.00
213	U3	13	DG	O3'-P-O5'	-8.54	87.78	104.00
6	A6	5	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	1639	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	5575	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	6141	DG	O3'-P-O5'	-8.54	87.78	104.00
11	AB	897	DG	O3'-P-O5'	-8.53	87.79	104.00
11	AB	4020	DG	O3'-P-O5'	-8.53	87.78	104.00
11	AB	4747	DG	O3'-P-O5'	-8.53	87.79	104.00
11	AB	4901	DG	O3'-P-O5'	-8.53	87.79	104.00
11	AB	7017	DG	O3'-P-O5'	-8.53	87.79	104.00
32	C8	18	DG	O3'-P-O5'	-8.53	87.78	104.00
108	J7	7	DG	O3'-P-O5'	-8.53	87.78	104.00
143	MA	40	DG	O3'-P-O5'	-8.54	87.78	104.00
152	N9	23	DG	O3'-P-O5'	-8.54	87.78	104.00
226	V9	15	DG	O3'-P-O5'	-8.53	87.78	104.00
11	AB	123	DG	O3'-P-O5'	-8.53	87.79	104.00
11	AB	3219	DG	O3'-P-O5'	-8.53	87.79	104.00
11	AB	4820	DG	O3'-P-O5'	-8.53	87.79	104.00
11	AB	5204	DG	O3'-P-O5'	-8.53	87.79	104.00
11	AB	5411	DG	O3'-P-O5'	-8.53	87.79	104.00
109	J8	26	DG	O3'-P-O5'	-8.53	87.79	104.00
148	N5	17	DG	O3'-P-O5'	-8.53	87.79	104.00
192	RC	10	DG	O3'-P-O5'	-8.53	87.79	104.00
200	SA	5	DG	O3'-P-O5'	-8.53	87.79	104.00
2	A2	25	DG	O3'-P-O5'	-8.53	87.80	104.00
11	AB	306	DG	O3'-P-O5'	-8.53	87.80	104.00
11	AB	4214	DG	O3'-P-O5'	-8.53	87.79	104.00
11	AB	4657	DG	O3'-P-O5'	-8.53	87.79	104.00
11	AB	3039	DG	O3'-P-O5'	-8.53	87.80	104.00
11	AB	3541	DG	O3'-P-O5'	-8.53	87.80	104.00
11	AB	3742	DG	O3'-P-O5'	-8.53	87.80	104.00
11	AB	6773	DG	O3'-P-O5'	-8.53	87.80	104.00
107	J6	43	DG	O3'-P-O5'	-8.53	87.80	104.00
109	J8	25	DG	O3'-P-O5'	-8.53	87.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
209	TA	30	DG	O3'-P-O5'	-8.53	87.80	104.00
11	AB	1191	DG	O3'-P-O5'	-8.53	87.80	104.00
11	AB	3637	DG	O3'-P-O5'	-8.53	87.80	104.00
11	AB	2238	DG	O3'-P-O5'	-8.53	87.80	104.00
60	F2	24	DG	O3'-P-O5'	-8.53	87.80	104.00
95	I5	37	DG	O3'-P-O5'	-8.53	87.80	104.00
200	SA	11	DG	O3'-P-O5'	-8.53	87.80	104.00
233	W8	13	DG	O3'-P-O5'	-8.53	87.80	104.00
11	AB	2390	DG	O3'-P-O5'	-8.52	87.81	104.00
11	AB	4822	DG	O3'-P-O5'	-8.52	87.80	104.00
11	AB	5035	DG	O3'-P-O5'	-8.52	87.81	104.00
11	AB	6652	DG	O3'-P-O5'	-8.52	87.81	104.00
209	TA	14	DG	O3'-P-O5'	-8.52	87.80	104.00
11	AB	1441	DG	O3'-P-O5'	-8.52	87.81	104.00
11	AB	4710	DG	O3'-P-O5'	-8.52	87.81	104.00
14	B1	20	DG	O3'-P-O5'	-8.52	87.81	104.00
11	AB	1281	DG	O3'-P-O5'	-8.52	87.81	104.00
11	AB	19	DG	O3'-P-O5'	-8.52	87.82	104.00
11	AB	316	DG	O3'-P-O5'	-8.52	87.82	104.00
33	C9	13	DG	O3'-P-O5'	-8.52	87.82	104.00
11	AB	1442	DG	O3'-P-O5'	-8.52	87.82	104.00
93	I2	24	DG	O3'-P-O5'	-8.52	87.82	104.00
186	R3	5	DG	O3'-P-O5'	-8.52	87.82	104.00
218	UA	5	DG	O3'-P-O5'	-8.52	87.82	104.00
5	A5	8	DG	O3'-P-O5'	-8.51	87.82	104.00
11	AB	4283	DG	O3'-P-O5'	-8.51	87.82	104.00
11	AB	4213	DG	O3'-P-O5'	-8.51	87.83	104.00
11	AB	5047	DG	O3'-P-O5'	-8.51	87.83	104.00
218	UA	7	DG	O3'-P-O5'	-8.51	87.83	104.00
153	NA	14	DG	O3'-P-O5'	-8.51	87.83	104.00
11	AB	1571	DG	O3'-P-O5'	-8.50	87.86	104.00
11	AB	622	DG	O3'-P-O5'	-8.49	87.86	104.00
11	AB	1415	DG	O3'-P-O5'	-8.48	87.89	104.00
11	AB	459	DG	O3'-P-O5'	-8.47	87.90	104.00
11	AB	6620	DG	O3'-P-O5'	-8.47	87.91	104.00
11	AB	1852	DG	O3'-P-O5'	-8.46	87.93	104.00
11	AB	6385	DG	O3'-P-O5'	-8.44	87.96	104.00
11	AB	2295	DG	O3'-P-O5'	-8.43	87.99	104.00
23	BA	27	DC	O3'-P-O5'	-8.11	88.60	104.00
11	AB	2984	DC	O3'-P-O5'	-8.10	88.61	104.00
11	AB	1096	DC	O3'-P-O5'	-8.10	88.62	104.00
44	D9	19	DC	O3'-P-O5'	-8.10	88.62	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2843	DC	O3'-P-O5'	-8.09	88.62	104.00
11	AB	601	DC	O3'-P-O5'	-8.09	88.62	104.00
11	AB	2521	DC	O3'-P-O5'	-8.09	88.63	104.00
11	AB	1799	DC	O3'-P-O5'	-8.09	88.63	104.00
11	AB	2618	DC	O3'-P-O5'	-8.09	88.63	104.00
11	AB	6077	DC	O3'-P-O5'	-8.09	88.63	104.00
11	AB	6103	DC	O3'-P-O5'	-8.09	88.63	104.00
11	AB	6350	DC	O3'-P-O5'	-8.09	88.63	104.00
11	AB	6805	DC	O3'-P-O5'	-8.09	88.63	104.00
60	F2	29	DC	O3'-P-O5'	-8.09	88.63	104.00
82	H2	32	DC	O3'-P-O5'	-8.09	88.63	104.00
11	AB	961	DC	O3'-P-O5'	-8.09	88.63	104.00
11	AB	1951	DC	O3'-P-O5'	-8.09	88.63	104.00
11	AB	4467	DC	O3'-P-O5'	-8.09	88.64	104.00
11	AB	6736	DC	O3'-P-O5'	-8.09	88.63	104.00
101	IC	23	DC	O3'-P-O5'	-8.09	88.63	104.00
203	T2	5	DC	O3'-P-O5'	-8.09	88.64	104.00
11	AB	739	DC	O3'-P-O5'	-8.09	88.64	104.00
11	AB	2353	DC	O3'-P-O5'	-8.09	88.64	104.00
11	AB	2675	DC	O3'-P-O5'	-8.09	88.64	104.00
11	AB	5939	DC	O3'-P-O5'	-8.09	88.64	104.00
110	J9	7	DC	O3'-P-O5'	-8.09	88.64	104.00
11	AB	1245	DC	O3'-P-O5'	-8.08	88.64	104.00
11	AB	3485	DC	O3'-P-O5'	-8.08	88.64	104.00
26	C1	14	DC	O3'-P-O5'	-8.08	88.64	104.00
223	V5	23	DC	O3'-P-O5'	-8.08	88.64	104.00
11	AB	2960	DC	O3'-P-O5'	-8.08	88.64	104.00
11	AB	2972	DC	O3'-P-O5'	-8.08	88.64	104.00
11	AB	5981	DC	O3'-P-O5'	-8.08	88.64	104.00
83	H3	2	DC	O3'-P-O5'	-8.08	88.64	104.00
167	P3	33	DC	O3'-P-O5'	-8.08	88.64	104.00
210	TC	6	DC	O3'-P-O5'	-8.08	88.64	104.00
215	U7	19	DC	O3'-P-O5'	-8.08	88.64	104.00
11	AB	1162	DC	O3'-P-O5'	-8.08	88.64	104.00
11	AB	7052	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	934	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	1522	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	1994	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	3159	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	3340	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	3446	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	3509	DC	O3'-P-O5'	-8.08	88.65	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4007	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	5795	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	6105	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	7188	DC	O3'-P-O5'	-8.08	88.65	104.00
43	D8	18	DC	O3'-P-O5'	-8.08	88.65	104.00
152	N9	27	DC	O3'-P-O5'	-8.08	88.65	104.00
172	P9	17	DC	O3'-P-O5'	-8.08	88.65	104.00
208	T9	9	DC	O3'-P-O5'	-8.08	88.65	104.00
230	W3	7	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	416	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	2176	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	4119	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	7225	DC	O3'-P-O5'	-8.08	88.65	104.00
160	O7	14	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	5216	DC	O3'-P-O5'	-8.08	88.66	104.00
11	AB	5380	DC	O3'-P-O5'	-8.08	88.66	104.00
11	AB	6131	DC	O3'-P-O5'	-8.08	88.65	104.00
11	AB	6503	DC	O3'-P-O5'	-8.08	88.66	104.00
11	AB	6742	DC	O3'-P-O5'	-8.08	88.65	104.00
129	L6	21	DC	O3'-P-O5'	-8.08	88.66	104.00
178	Q5	12	DC	O3'-P-O5'	-8.08	88.65	104.00
233	W8	19	DC	O3'-P-O5'	-8.08	88.65	104.00
224	V7	6	DC	O3'-P-O5'	-8.08	88.66	104.00
11	AB	397	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	1954	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	3647	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	3674	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	3695	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	4005	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	4733	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	5020	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	5091	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	7054	DC	O3'-P-O5'	-8.07	88.66	104.00
43	D8	29	DC	O3'-P-O5'	-8.07	88.66	104.00
187	R5	12	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	5918	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	7182	DC	O3'-P-O5'	-8.07	88.66	104.00
32	C8	44	DC	O3'-P-O5'	-8.07	88.66	104.00
41	D6	6	DC	O3'-P-O5'	-8.07	88.66	104.00
83	H3	6	DC	O3'-P-O5'	-8.07	88.66	104.00
93	I2	43	DC	O3'-P-O5'	-8.07	88.66	104.00
122	KA	6	DC	O3'-P-O5'	-8.07	88.66	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
172	P9	22	DC	O3'-P-O5'	-8.07	88.66	104.00
214	U5	18	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	379	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	1370	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	1972	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	2823	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	2852	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	3146	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	3317	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	4726	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	4855	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	5140	DC	O3'-P-O5'	-8.07	88.66	104.00
99	I9	7	DC	O3'-P-O5'	-8.07	88.67	104.00
138	M5	37	DC	O3'-P-O5'	-8.07	88.67	104.00
143	MA	15	DC	O3'-P-O5'	-8.07	88.66	104.00
198	S8	6	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	205	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	576	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	1306	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	1495	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	1536	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	5509	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	1556	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	2185	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	2611	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	3493	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	4146	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	4922	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	5930	DC	O3'-P-O5'	-8.07	88.67	104.00
117	K5	13	DC	O3'-P-O5'	-8.07	88.66	104.00
11	AB	6408	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	6476	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	6744	DC	O3'-P-O5'	-8.07	88.67	104.00
39	D3	6	DC	O3'-P-O5'	-8.07	88.67	104.00
105	J3	16	DC	O3'-P-O5'	-8.07	88.67	104.00
128	L5	6	DC	O3'-P-O5'	-8.07	88.67	104.00
170	P7	7	DC	O3'-P-O5'	-8.07	88.67	104.00
205	T5	6	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	433	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	574	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	679	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	1562	DC	O3'-P-O5'	-8.07	88.67	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3999	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	826	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	1093	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	1511	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	2100	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	2107	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	2281	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	3443	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	5527	DC	O3'-P-O5'	-8.07	88.67	104.00
29	C5	23	DC	O3'-P-O5'	-8.07	88.67	104.00
140	M7	9	DC	O3'-P-O5'	-8.07	88.67	104.00
156	O2	12	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	2425	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	2692	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	3284	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	3500	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	3923	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	3512	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	3991	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	4325	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	4360	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	5075	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	5392	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	5529	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	5800	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	6182	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	6721	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	6860	DC	O3'-P-O5'	-8.07	88.67	104.00
27	C2	21	DC	O3'-P-O5'	-8.07	88.67	104.00
61	F3	4	DC	O3'-P-O5'	-8.07	88.67	104.00
136	M2	1	DC	O3'-P-O5'	-8.07	88.67	104.00
209	TA	22	DC	O3'-P-O5'	-8.07	88.67	104.00
189	R8	16	DC	O3'-P-O5'	-8.07	88.67	104.00
231	W5	14	DC	O3'-P-O5'	-8.07	88.67	104.00
11	AB	211	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	565	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	863	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	571	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	586	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	1147	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	1240	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	4242	DC	O3'-P-O5'	-8.06	88.68	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5079	DC	O3'-P-O5'	-8.06	88.68	104.00
108	J7	16	DC	O3'-P-O5'	-8.06	88.68	104.00
124	KD	7	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	1249	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	1404	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	1812	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	2437	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	3622	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	3830	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	4268	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	4384	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	4533	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	5063	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	5397	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	5600	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	5861	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	5936	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	6231	DC	O3'-P-O5'	-8.06	88.68	104.00
35	CC	12	DC	O3'-P-O5'	-8.06	88.68	104.00
37	D1	34	DC	O3'-P-O5'	-8.06	88.68	104.00
41	D6	16	DC	O3'-P-O5'	-8.06	88.68	104.00
215	U7	12	DC	O3'-P-O5'	-8.06	88.68	104.00
62	F5	7	DC	O3'-P-O5'	-8.06	88.68	104.00
62	F5	20	DC	O3'-P-O5'	-8.06	88.68	104.00
84	H5	29	DC	O3'-P-O5'	-8.06	88.68	104.00
104	J2	18	DC	O3'-P-O5'	-8.06	88.68	104.00
124	KD	4	DC	O3'-P-O5'	-8.06	88.68	104.00
151	N8	7	DC	O3'-P-O5'	-8.06	88.68	104.00
185	R2	13	DC	O3'-P-O5'	-8.06	88.68	104.00
221	V2	1	DC	O3'-P-O5'	-8.06	88.68	104.00
227	VA	27	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	391	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	1128	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	5783	DC	O3'-P-O5'	-8.06	88.68	104.00
83	H3	38	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	1150	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1502	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	1560	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1695	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1801	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1849	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	1960	DC	O3'-P-O5'	-8.06	88.68	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3143	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	3149	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	3294	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	3352	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	3515	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	3645	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	6637	DC	O3'-P-O5'	-8.06	88.68	104.00
30	C6	12	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	3556	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	3938	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	5376	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	5522	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	7074	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	6253	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	7045	DC	O3'-P-O5'	-8.06	88.69	104.00
17	B4	20	DC	O3'-P-O5'	-8.06	88.69	104.00
67	FA	29	DC	O3'-P-O5'	-8.06	88.68	104.00
187	R5	31	DC	O3'-P-O5'	-8.06	88.68	104.00
54	E8	18	DC	O3'-P-O5'	-8.06	88.69	104.00
54	E8	21	DC	O3'-P-O5'	-8.06	88.69	104.00
98	I8	26	DC	O3'-P-O5'	-8.06	88.69	104.00
114	K1	42	DC	O3'-P-O5'	-8.06	88.69	104.00
147	N3	26	DC	O3'-P-O5'	-8.06	88.68	104.00
149	N6	3	DC	O3'-P-O5'	-8.06	88.68	104.00
171	P8	7	DC	O3'-P-O5'	-8.06	88.68	104.00
206	T7	13	DC	O3'-P-O5'	-8.06	88.69	104.00
238	X9	5	DC	O3'-P-O5'	-8.06	88.68	104.00
11	AB	200	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	418	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	664	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	6486	DC	O3'-P-O5'	-8.06	88.69	104.00
18	B5	17	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	191	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	196	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	649	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	670	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	844	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1048	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1328	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1675	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1704	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	2669	DC	O3'-P-O5'	-8.06	88.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2846	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	2992	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	3320	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	3764	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	3833	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	4690	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	4719	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	5239	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	5461	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	5996	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	6075	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	6807	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	6862	DC	O3'-P-O5'	-8.06	88.69	104.00
24	BC	31	DC	O3'-P-O5'	-8.06	88.69	104.00
30	C6	26	DC	O3'-P-O5'	-8.06	88.69	104.00
143	MA	32	DC	O3'-P-O5'	-8.06	88.69	104.00
214	U5	22	DC	O3'-P-O5'	-8.06	88.69	104.00
220	UD	1	DC	O3'-P-O5'	-8.06	88.69	104.00
2	A2	21	DC	O3'-P-O5'	-8.05	88.69	104.00
4	A4	17	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1387	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1579	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	256	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	778	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	1012	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	1072	DC	O3'-P-O5'	-8.05	88.69	104.00
11	AB	1132	DC	O3'-P-O5'	-8.05	88.69	104.00
11	AB	1166	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1574	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	1693	DC	O3'-P-O5'	-8.05	88.69	104.00
11	AB	1968	DC	O3'-P-O5'	-8.05	88.69	104.00
11	AB	3464	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	3498	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	4544	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	4594	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	4938	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	5469	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	5606	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	6792	DC	O3'-P-O5'	-8.05	88.70	104.00
84	H5	36	DC	O3'-P-O5'	-8.06	88.69	104.00
90	HC	19	DC	O3'-P-O5'	-8.05	88.69	104.00
127	L3	17	DC	O3'-P-O5'	-8.05	88.70	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
154	NC	2	DC	O3'-P-O5'	-8.06	88.69	104.00
172	P9	26	DC	O3'-P-O5'	-8.06	88.69	104.00
11	AB	559	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	2264	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	2317	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	2584	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	3185	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	3191	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	3452	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	3616	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	3936	DC	O3'-P-O5'	-8.05	88.69	104.00
11	AB	4792	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	5589	DC	O3'-P-O5'	-8.05	88.69	104.00
11	AB	6219	DC	O3'-P-O5'	-8.05	88.69	104.00
11	AB	6888	DC	O3'-P-O5'	-8.05	88.69	104.00
133	LA	7	DC	O3'-P-O5'	-8.06	88.69	104.00
144	MC	19	DC	O3'-P-O5'	-8.05	88.69	104.00
204	T3	15	DC	O3'-P-O5'	-8.05	88.69	104.00
11	AB	5302	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	5511	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	5696	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	5789	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	6016	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	6113	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	6602	DC	O3'-P-O5'	-8.05	88.70	104.00
23	BA	24	DC	O3'-P-O5'	-8.05	88.70	104.00
51	E5	12	DC	O3'-P-O5'	-8.05	88.70	104.00
90	HC	5	DC	O3'-P-O5'	-8.05	88.70	104.00
93	I2	46	DC	O3'-P-O5'	-8.05	88.70	104.00
111	JA	15	DC	O3'-P-O5'	-8.05	88.70	104.00
125	L1	37	DC	O3'-P-O5'	-8.05	88.70	104.00
156	O2	8	DC	O3'-P-O5'	-8.05	88.70	104.00
180	Q8	22	DC	O3'-P-O5'	-8.05	88.70	104.00
183	QC	5	DC	O3'-P-O5'	-8.05	88.70	104.00
212	U2	17	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	592	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	3169	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	5243	DC	O3'-P-O5'	-8.05	88.70	104.00
70	G1	3	DC	O3'-P-O5'	-8.05	88.70	104.00
10	AA	5	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	919	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	2936	DC	O3'-P-O5'	-8.05	88.70	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3839	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	959	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	3450	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	6227	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	3827	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	4136	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	4391	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	4395	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	6272	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	5549	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	7000	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	7219	DC	O3'-P-O5'	-8.05	88.70	104.00
22	B9	6	DC	O3'-P-O5'	-8.05	88.70	104.00
37	D1	26	DC	O3'-P-O5'	-8.05	88.70	104.00
44	D9	10	DC	O3'-P-O5'	-8.05	88.70	104.00
64	F7	12	DC	O3'-P-O5'	-8.05	88.70	104.00
57	EC	16	DC	O3'-P-O5'	-8.05	88.70	104.00
108	J7	51	DC	O3'-P-O5'	-8.05	88.70	104.00
141	M8	27	DC	O3'-P-O5'	-8.05	88.70	104.00
114	K1	39	DC	O3'-P-O5'	-8.05	88.70	104.00
147	N3	13	DC	O3'-P-O5'	-8.05	88.70	104.00
177	Q3	9	DC	O3'-P-O5'	-8.05	88.70	104.00
219	UC	6	DC	O3'-P-O5'	-8.05	88.70	104.00
11	AB	387	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	448	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	529	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	831	DC	O3'-P-O5'	-8.05	88.71	104.00
141	M8	19	DC	O3'-P-O5'	-8.05	88.71	104.00
5	A5	15	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	835	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	841	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	4039	DC	O3'-P-O5'	-8.05	88.71	104.00
217	U9	12	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	904	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	932	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1041	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1044	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1065	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1285	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	2346	DC	O3'-P-O5'	-8.05	88.71	104.00
92	I1	24	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1183	DC	O3'-P-O5'	-8.05	88.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1485	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1499	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1691	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1707	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1856	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	3011	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	3296	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	3686	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	3718	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	4862	DC	O3'-P-O5'	-8.05	88.71	104.00
65	F8	4	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	2025	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	3941	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	3988	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	4464	DC	O3'-P-O5'	-8.05	88.71	104.00
163	OA	14	DC	O3'-P-O5'	-8.05	88.71	104.00
186	R3	20	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	3950	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	4124	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	4172	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	4253	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	4502	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	4647	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	5585	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	5699	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	6414	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	6527	DC	O3'-P-O5'	-8.05	88.71	104.00
119	K7	40	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	6533	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	6688	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	6712	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	6951	DC	O3'-P-O5'	-8.05	88.71	104.00
49	E2	2	DC	O3'-P-O5'	-8.05	88.71	104.00
114	K1	8	DC	O3'-P-O5'	-8.05	88.71	104.00
120	K8	17	DC	O3'-P-O5'	-8.05	88.71	104.00
122	KA	31	DC	O3'-P-O5'	-8.05	88.71	104.00
122	KA	42	DC	O3'-P-O5'	-8.05	88.71	104.00
139	M6	5	DC	O3'-P-O5'	-8.05	88.71	104.00
165	OD	56	DC	O3'-P-O5'	-8.05	88.71	104.00
167	P3	23	DC	O3'-P-O5'	-8.05	88.71	104.00
181	Q9	7	DC	O3'-P-O5'	-8.05	88.71	104.00
184	QD	2	DC	O3'-P-O5'	-8.05	88.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
186	R3	15	DC	O3'-P-O5'	-8.05	88.71	104.00
188	R7	31	DC	O3'-P-O5'	-8.05	88.71	104.00
210	TC	12	DC	O3'-P-O5'	-8.05	88.71	104.00
216	U8	21	DC	O3'-P-O5'	-8.05	88.71	104.00
1	A1	50	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	187	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	355	DC	O3'-P-O5'	-8.05	88.71	104.00
183	QC	22	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	594	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	709	DC	O3'-P-O5'	-8.04	88.71	104.00
11	AB	853	DC	O3'-P-O5'	-8.04	88.71	104.00
11	AB	1343	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1542	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	5155	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	7237	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	1436	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	1932	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	2224	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	2253	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	2329	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	2638	DC	O3'-P-O5'	-8.04	88.71	104.00
11	AB	3776	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	4548	DC	O3'-P-O5'	-8.04	88.71	104.00
11	AB	7191	DC	O3'-P-O5'	-8.05	88.71	104.00
196	S5	24	DC	O3'-P-O5'	-8.05	88.71	104.00
227	VA	3	DC	O3'-P-O5'	-8.05	88.71	104.00
11	AB	4694	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	6155	DC	O3'-P-O5'	-8.04	88.72	104.00
27	C2	16	DC	O3'-P-O5'	-8.04	88.72	104.00
34	CA	15	DC	O3'-P-O5'	-8.04	88.72	104.00
51	E5	26	DC	O3'-P-O5'	-8.04	88.72	104.00
65	F8	12	DC	O3'-P-O5'	-8.04	88.72	104.00
106	J5	8	DC	O3'-P-O5'	-8.04	88.71	104.00
115	K2	29	DC	O3'-P-O5'	-8.04	88.72	104.00
148	N5	24	DC	O3'-P-O5'	-8.04	88.72	104.00
154	NC	32	DC	O3'-P-O5'	-8.04	88.71	104.00
164	OC	8	DC	O3'-P-O5'	-8.04	88.72	104.00
192	RC	21	DC	O3'-P-O5'	-8.04	88.72	104.00
192	RC	23	DC	O3'-P-O5'	-8.04	88.72	104.00
205	T5	20	DC	O3'-P-O5'	-8.04	88.72	104.00
207	T8	17	DC	O3'-P-O5'	-8.04	88.72	104.00
213	U3	20	DC	O3'-P-O5'	-8.04	88.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
221	V2	20	DC	O3'-P-O5'	-8.04	88.72	104.00
223	V5	38	DC	O3'-P-O5'	-8.04	88.71	104.00
227	VA	8	DC	O3'-P-O5'	-8.04	88.72	104.00
8	A8	22	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	782	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	1396	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	1506	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	1581	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	1614	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	2041	DC	O3'-P-O5'	-8.04	88.72	104.00
47	DD	11	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	2260	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	2332	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	3263	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	3344	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	3425	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	4066	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	7209	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	3872	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	4205	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	5104	DC	O3'-P-O5'	-8.04	88.72	104.00
54	E8	35	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	4626	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	4659	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	4948	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	5220	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	5459	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	6632	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	5596	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	6726	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	6953	DC	O3'-P-O5'	-8.04	88.72	104.00
85	H6	18	DC	O3'-P-O5'	-8.04	88.72	104.00
22	B9	20	DC	O3'-P-O5'	-8.04	88.72	104.00
31	C7	6	DC	O3'-P-O5'	-8.04	88.72	104.00
35	CC	15	DC	O3'-P-O5'	-8.04	88.72	104.00
41	D6	45	DC	O3'-P-O5'	-8.04	88.72	104.00
50	E3	15	DC	O3'-P-O5'	-8.04	88.72	104.00
87	H8	12	DC	O3'-P-O5'	-8.04	88.72	104.00
100	IA	11	DC	O3'-P-O5'	-8.04	88.72	104.00
107	J6	3	DC	O3'-P-O5'	-8.04	88.72	104.00
205	T5	18	DC	O3'-P-O5'	-8.04	88.72	104.00
110	J9	21	DC	O3'-P-O5'	-8.04	88.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
118	K6	11	DC	O3'-P-O5'	-8.04	88.72	104.00
119	K7	33	DC	O3'-P-O5'	-8.04	88.72	104.00
148	N5	14	DC	O3'-P-O5'	-8.04	88.72	104.00
151	N8	9	DC	O3'-P-O5'	-8.04	88.72	104.00
158	O5	51	DC	O3'-P-O5'	-8.04	88.72	104.00
161	O8	17	DC	O3'-P-O5'	-8.04	88.72	104.00
176	Q2	11	DC	O3'-P-O5'	-8.04	88.72	104.00
197	S7	13	DC	O3'-P-O5'	-8.04	88.72	104.00
202	SD	12	DC	O3'-P-O5'	-8.04	88.72	104.00
214	U5	10	DC	O3'-P-O5'	-8.04	88.72	104.00
3	A3	2	DC	O3'-P-O5'	-8.04	88.73	104.00
7	A7	16	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	48	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	237	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	280	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	743	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	1185	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	1548	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	5146	DC	O3'-P-O5'	-8.04	88.72	104.00
74	G6	36	DC	O3'-P-O5'	-8.04	88.72	104.00
171	P8	12	DC	O3'-P-O5'	-8.04	88.72	104.00
189	R8	8	DC	O3'-P-O5'	-8.04	88.72	104.00
4	A4	6	DC	O3'-P-O5'	-8.04	88.73	104.00
5	A5	32	DC	O3'-P-O5'	-8.04	88.73	104.00
5	A5	34	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	322	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	469	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	2497	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	662	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	1054	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	1210	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	1270	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	3462	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	3665	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	3919	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4373	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	6470	DC	O3'-P-O5'	-8.04	88.72	104.00
14	B1	34	DC	O3'-P-O5'	-8.04	88.73	104.00
104	J2	30	DC	O3'-P-O5'	-8.04	88.72	104.00
126	L2	46	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	2179	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	2392	DC	O3'-P-O5'	-8.04	88.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2609	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	2881	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	2897	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	2969	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	3003	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	3454	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	3641	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	3904	DC	O3'-P-O5'	-8.04	88.72	104.00
20	B7	19	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	3910	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4049	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4149	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4494	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4615	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4810	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4829	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	5663	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	6551	DC	O3'-P-O5'	-8.04	88.72	104.00
11	AB	4877	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4899	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	5137	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	5716	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	7239	DC	O3'-P-O5'	-8.04	88.72	104.00
97	I7	28	DC	O3'-P-O5'	-8.04	88.72	104.00
132	L9	16	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	5828	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	6410	DC	O3'-P-O5'	-8.04	88.73	104.00
96	I6	18	DC	O3'-P-O5'	-8.04	88.73	104.00
120	K8	21	DC	O3'-P-O5'	-8.04	88.73	104.00
149	N6	47	DC	O3'-P-O5'	-8.04	88.73	104.00
187	R5	39	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	6614	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	7013	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	7131	DC	O3'-P-O5'	-8.04	88.73	104.00
13	AD	34	DC	O3'-P-O5'	-8.04	88.73	104.00
43	D8	31	DC	O3'-P-O5'	-8.04	88.73	104.00
49	E2	24	DC	O3'-P-O5'	-8.04	88.73	104.00
54	E8	29	DC	O3'-P-O5'	-8.04	88.73	104.00
55	E9	23	DC	O3'-P-O5'	-8.04	88.73	104.00
91	HD	20	DC	O3'-P-O5'	-8.04	88.73	104.00
93	I2	9	DC	O3'-P-O5'	-8.04	88.73	104.00
96	I6	15	DC	O3'-P-O5'	-8.04	88.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	J8	15	DC	O3'-P-O5'	-8.04	88.73	104.00
116	K3	21	DC	O3'-P-O5'	-8.04	88.73	104.00
117	K5	10	DC	O3'-P-O5'	-8.04	88.73	104.00
147	N3	10	DC	O3'-P-O5'	-8.04	88.72	104.00
124	KD	14	DC	O3'-P-O5'	-8.04	88.73	104.00
126	L2	8	DC	O3'-P-O5'	-8.04	88.73	104.00
127	L3	5	DC	O3'-P-O5'	-8.04	88.73	104.00
138	M5	30	DC	O3'-P-O5'	-8.04	88.73	104.00
160	O7	31	DC	O3'-P-O5'	-8.04	88.73	104.00
161	O8	43	DC	O3'-P-O5'	-8.04	88.73	104.00
166	P2	33	DC	O3'-P-O5'	-8.04	88.73	104.00
169	P6	20	DC	O3'-P-O5'	-8.04	88.73	104.00
181	Q9	22	DC	O3'-P-O5'	-8.04	88.73	104.00
197	S7	21	DC	O3'-P-O5'	-8.04	88.73	104.00
208	T9	18	DC	O3'-P-O5'	-8.04	88.73	104.00
220	UD	10	DC	O3'-P-O5'	-8.04	88.73	104.00
232	W7	25	DC	O3'-P-O5'	-8.04	88.73	104.00
236	X5	7	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	115	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	175	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	263	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	299	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	370	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	3902	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4635	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	712	DC	O3'-P-O5'	-8.03	88.73	104.00
11	AB	764	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	1353	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	1670	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	2915	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	3470	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	3977	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4500	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	1899	DC	O3'-P-O5'	-8.03	88.73	104.00
11	AB	3047	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4569	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4785	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	4999	DC	O3'-P-O5'	-8.04	88.73	104.00
212	U2	26	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	5311	DC	O3'-P-O5'	-8.03	88.73	104.00
11	AB	5499	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	5850	DC	O3'-P-O5'	-8.04	88.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6241	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	6392	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	6555	DC	O3'-P-O5'	-8.04	88.73	104.00
11	AB	6835	DC	O3'-P-O5'	-8.03	88.73	104.00
12	AC	7	DC	O3'-P-O5'	-8.03	88.74	104.00
60	F2	7	DC	O3'-P-O5'	-8.04	88.73	104.00
63	F6	12	DC	O3'-P-O5'	-8.04	88.73	104.00
77	G9	1	DC	O3'-P-O5'	-8.04	88.73	104.00
82	H2	25	DC	O3'-P-O5'	-8.04	88.73	104.00
111	JA	18	DC	O3'-P-O5'	-8.04	88.73	104.00
135	LD	17	DC	O3'-P-O5'	-8.04	88.73	104.00
99	I9	18	DC	O3'-P-O5'	-8.03	88.74	104.00
107	J6	23	DC	O3'-P-O5'	-8.04	88.73	104.00
117	K5	29	DC	O3'-P-O5'	-8.03	88.73	104.00
122	KA	8	DC	O3'-P-O5'	-8.04	88.73	104.00
125	L1	41	DC	O3'-P-O5'	-8.04	88.73	104.00
126	L2	29	DC	O3'-P-O5'	-8.04	88.73	104.00
156	O2	33	DC	O3'-P-O5'	-8.04	88.73	104.00
167	P3	19	DC	O3'-P-O5'	-8.04	88.73	104.00
177	Q3	15	DC	O3'-P-O5'	-8.04	88.73	104.00
238	X9	22	DC	O3'-P-O5'	-8.04	88.73	104.00
146	N2	15	DC	O3'-P-O5'	-8.03	88.74	104.00
194	S2	2	DC	O3'-P-O5'	-8.04	88.73	104.00
197	S7	8	DC	O3'-P-O5'	-8.04	88.73	104.00
197	S7	15	DC	O3'-P-O5'	-8.03	88.74	104.00
210	TC	27	DC	O3'-P-O5'	-8.03	88.74	104.00
225	V8	26	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	79	DC	O3'-P-O5'	-8.03	88.74	104.00
10	AA	12	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	169	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	308	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	312	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	500	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	694	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	4189	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	889	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	1420	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	1600	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6051	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	1730	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	2211	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	2535	DC	O3'-P-O5'	-8.03	88.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2684	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6224	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	2742	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	3260	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	3374	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	3495	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	3835	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	3854	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	4108	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	4592	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	5825	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	5246	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	5476	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	5870	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	5926	DC	O3'-P-O5'	-8.03	88.74	104.00
88	H9	12	DC	O3'-P-O5'	-8.03	88.74	104.00
162	O9	18	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	5546	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	5631	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	5853	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	5989	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6005	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6194	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6202	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6381	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6866	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6919	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	7114	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	7166	DC	O3'-P-O5'	-8.03	88.74	104.00
21	B8	3	DC	O3'-P-O5'	-8.03	88.74	104.00
32	C8	5	DC	O3'-P-O5'	-8.03	88.74	104.00
46	DC	21	DC	O3'-P-O5'	-8.03	88.74	104.00
63	F6	15	DC	O3'-P-O5'	-8.03	88.74	104.00
72	G3	2	DC	O3'-P-O5'	-8.03	88.74	104.00
74	G6	22	DC	O3'-P-O5'	-8.03	88.74	104.00
75	G7	15	DC	O3'-P-O5'	-8.03	88.74	104.00
98	I8	21	DC	O3'-P-O5'	-8.03	88.74	104.00
99	I9	3	DC	O3'-P-O5'	-8.03	88.74	104.00
109	J8	47	DC	O3'-P-O5'	-8.03	88.74	104.00
138	M5	2	DC	O3'-P-O5'	-8.03	88.74	104.00
237	X7	17	DC	O3'-P-O5'	-8.03	88.74	104.00
140	M7	17	DC	O3'-P-O5'	-8.03	88.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
154	NC	28	DC	O3'-P-O5'	-8.03	88.74	104.00
158	O5	14	DC	O3'-P-O5'	-8.03	88.74	104.00
181	Q9	17	DC	O3'-P-O5'	-8.03	88.74	104.00
193	RD	5	DC	O3'-P-O5'	-8.03	88.74	104.00
198	S8	37	DC	O3'-P-O5'	-8.03	88.74	104.00
213	U3	22	DC	O3'-P-O5'	-8.03	88.74	104.00
214	U5	15	DC	O3'-P-O5'	-8.03	88.74	104.00
219	UC	25	DC	O3'-P-O5'	-8.03	88.74	104.00
224	V7	12	DC	O3'-P-O5'	-8.03	88.74	104.00
235	WD	8	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	118	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	128	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	490	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	505	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	519	DC	O3'-P-O5'	-8.03	88.74	104.00
43	D8	10	DC	O3'-P-O5'	-8.03	88.74	104.00
93	I2	31	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	769	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	1000	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	1400	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	1478	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	1786	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	1872	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	1884	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	2015	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	2147	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	4692	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	4712	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6065	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6284	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6827	DC	O3'-P-O5'	-8.03	88.74	104.00
13	AD	9	DC	O3'-P-O5'	-8.03	88.74	104.00
85	H6	24	DC	O3'-P-O5'	-8.03	88.74	104.00
94	I3	5	DC	O3'-P-O5'	-8.03	88.74	104.00
215	U7	7	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	2664	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	2879	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	3254	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	3608	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	3875	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	4122	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	4860	DC	O3'-P-O5'	-8.03	88.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4888	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	4931	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	4983	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	5161	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6139	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	6383	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	6547	DC	O3'-P-O5'	-8.03	88.74	104.00
11	AB	7147	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	7161	DC	O3'-P-O5'	-8.03	88.75	104.00
13	AD	18	DC	O3'-P-O5'	-8.03	88.75	104.00
13	AD	29	DC	O3'-P-O5'	-8.03	88.74	104.00
19	B6	22	DC	O3'-P-O5'	-8.03	88.74	104.00
44	D9	1	DC	O3'-P-O5'	-8.03	88.74	104.00
18	B5	6	DC	O3'-P-O5'	-8.03	88.75	104.00
27	C2	12	DC	O3'-P-O5'	-8.03	88.75	104.00
31	C7	17	DC	O3'-P-O5'	-8.03	88.74	104.00
36	CD	1	DC	O3'-P-O5'	-8.03	88.74	104.00
41	D6	20	DC	O3'-P-O5'	-8.03	88.74	104.00
84	H5	25	DC	O3'-P-O5'	-8.03	88.74	104.00
97	I7	22	DC	O3'-P-O5'	-8.03	88.74	104.00
148	N5	21	DC	O3'-P-O5'	-8.03	88.74	104.00
47	DD	20	DC	O3'-P-O5'	-8.03	88.75	104.00
80	GD	5	DC	O3'-P-O5'	-8.03	88.75	104.00
85	H6	11	DC	O3'-P-O5'	-8.03	88.75	104.00
86	H7	6	DC	O3'-P-O5'	-8.03	88.74	104.00
112	JC	6	DC	O3'-P-O5'	-8.03	88.75	104.00
117	K5	23	DC	O3'-P-O5'	-8.03	88.74	104.00
122	KA	46	DC	O3'-P-O5'	-8.03	88.75	104.00
140	M7	11	DC	O3'-P-O5'	-8.03	88.75	104.00
146	N2	1	DC	O3'-P-O5'	-8.03	88.75	104.00
147	N3	34	DC	O3'-P-O5'	-8.03	88.75	104.00
149	N6	19	DC	O3'-P-O5'	-8.03	88.75	104.00
156	O2	23	DC	O3'-P-O5'	-8.03	88.75	104.00
164	OC	6	DC	O3'-P-O5'	-8.03	88.74	104.00
206	T7	30	DC	O3'-P-O5'	-8.03	88.75	104.00
232	W7	20	DC	O3'-P-O5'	-8.03	88.75	104.00
234	W9	18	DC	O3'-P-O5'	-8.03	88.75	104.00
2	A2	5	DC	O3'-P-O5'	-8.03	88.75	104.00
7	A7	31	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	538	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	1602	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	1743	DC	O3'-P-O5'	-8.03	88.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1867	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	1893	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	2277	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	4287	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	6355	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	2059	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	2079	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	7232	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	2136	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	2398	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	2650	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	3064	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	3107	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	3793	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	6091	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	6506	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	7229	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	3898	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	4129	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	6909	DC	O3'-P-O5'	-8.03	88.75	104.00
145	MD	22	DC	O3'-P-O5'	-8.03	88.75	104.00
11	AB	5615	DC	O3'-P-O5'	-8.03	88.75	104.00
15	B2	8	DC	O3'-P-O5'	-8.03	88.75	104.00
18	B5	37	DC	O3'-P-O5'	-8.03	88.75	104.00
19	B6	12	DC	O3'-P-O5'	-8.03	88.75	104.00
27	C2	7	DC	O3'-P-O5'	-8.03	88.75	104.00
30	C6	19	DC	O3'-P-O5'	-8.03	88.75	104.00
45	DA	7	DC	O3'-P-O5'	-8.03	88.75	104.00
61	F3	21	DC	O3'-P-O5'	-8.03	88.75	104.00
37	D1	19	DC	O3'-P-O5'	-8.03	88.75	104.00
48	E1	9	DC	O3'-P-O5'	-8.03	88.75	104.00
52	E6	24	DC	O3'-P-O5'	-8.03	88.75	104.00
64	F7	7	DC	O3'-P-O5'	-8.03	88.75	104.00
71	G2	6	DC	O3'-P-O5'	-8.03	88.75	104.00
72	G3	15	DC	O3'-P-O5'	-8.03	88.75	104.00
83	H3	16	DC	O3'-P-O5'	-8.03	88.75	104.00
89	HA	22	DC	O3'-P-O5'	-8.03	88.75	104.00
205	T5	8	DC	O3'-P-O5'	-8.03	88.75	104.00
228	VC	20	DC	O3'-P-O5'	-8.03	88.75	104.00
62	F5	25	DC	O3'-P-O5'	-8.03	88.75	104.00
65	F8	1	DC	O3'-P-O5'	-8.03	88.75	104.00
69	FD	32	DC	O3'-P-O5'	-8.03	88.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
71	G2	8	DC	O3'-P-O5'	-8.03	88.75	104.00
74	G6	13	DC	O3'-P-O5'	-8.03	88.75	104.00
75	G7	6	DC	O3'-P-O5'	-8.03	88.75	104.00
77	G9	12	DC	O3'-P-O5'	-8.03	88.75	104.00
79	GC	8	DC	O3'-P-O5'	-8.03	88.75	104.00
80	GD	14	DC	O3'-P-O5'	-8.03	88.75	104.00
87	H8	24	DC	O3'-P-O5'	-8.03	88.75	104.00
88	H9	5	DC	O3'-P-O5'	-8.03	88.75	104.00
103	J1	14	DC	O3'-P-O5'	-8.03	88.75	104.00
103	J1	17	DC	O3'-P-O5'	-8.03	88.75	104.00
109	J8	3	DC	O3'-P-O5'	-8.03	88.75	104.00
112	JC	13	DC	O3'-P-O5'	-8.03	88.75	104.00
137	M3	30	DC	O3'-P-O5'	-8.03	88.75	104.00
138	M5	4	DC	O3'-P-O5'	-8.03	88.75	104.00
146	N2	5	DC	O3'-P-O5'	-8.03	88.75	104.00
169	P6	14	DC	O3'-P-O5'	-8.03	88.75	104.00
180	Q8	6	DC	O3'-P-O5'	-8.03	88.75	104.00
208	T9	21	DC	O3'-P-O5'	-8.03	88.75	104.00
1	A1	11	DC	O3'-P-O5'	-8.02	88.76	104.00
6	A6	10	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	1251	DC	O3'-P-O5'	-8.02	88.75	104.00
11	AB	3713	DC	O3'-P-O5'	-8.02	88.75	104.00
49	E2	13	DC	O3'-P-O5'	-8.02	88.75	104.00
6	A6	14	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	91	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	250	DC	O3'-P-O5'	-8.02	88.75	104.00
118	K6	16	DC	O3'-P-O5'	-8.02	88.75	104.00
11	AB	146	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	295	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	544	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	721	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	819	DC	O3'-P-O5'	-8.02	88.75	104.00
24	BC	16	DC	O3'-P-O5'	-8.02	88.75	104.00
11	AB	527	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	612	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	865	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	1277	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	877	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	1081	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	1475	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	1771	DC	O3'-P-O5'	-8.02	88.75	104.00
11	AB	4155	DC	O3'-P-O5'	-8.02	88.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	D1	29	DC	O3'-P-O5'	-8.02	88.75	104.00
190	R9	30	DC	O3'-P-O5'	-8.02	88.75	104.00
11	AB	1586	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	1630	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	1655	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	2142	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	2230	DC	O3'-P-O5'	-8.02	88.75	104.00
11	AB	4512	DC	O3'-P-O5'	-8.02	88.75	104.00
11	AB	6978	DC	O3'-P-O5'	-8.02	88.75	104.00
11	AB	2647	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	3113	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	3270	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	4203	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	4478	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	6276	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	7149	DC	O3'-P-O5'	-8.02	88.75	104.00
30	C6	29	DC	O3'-P-O5'	-8.02	88.75	104.00
44	D9	4	DC	O3'-P-O5'	-8.02	88.75	104.00
46	DC	18	DC	O3'-P-O5'	-8.02	88.75	104.00
62	F5	33	DC	O3'-P-O5'	-8.02	88.76	104.00
114	K1	24	DC	O3'-P-O5'	-8.02	88.75	104.00
126	L2	19	DC	O3'-P-O5'	-8.02	88.76	104.00
163	OA	18	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	3437	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	3807	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	4159	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	4673	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5059	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5110	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5143	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5624	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5633	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5765	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5963	DC	O3'-P-O5'	-8.02	88.76	104.00
32	C8	48	DC	O3'-P-O5'	-8.02	88.76	104.00
160	O7	2	DC	O3'-P-O5'	-8.02	88.76	104.00
174	PC	24	DC	O3'-P-O5'	-8.02	88.75	104.00
209	TA	41	DC	O3'-P-O5'	-8.02	88.75	104.00
11	AB	6190	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	6314	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	6618	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	6690	DC	O3'-P-O5'	-8.02	88.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7141	DC	O3'-P-O5'	-8.02	88.76	104.00
14	B1	5	DC	O3'-P-O5'	-8.02	88.76	104.00
20	B7	11	DC	O3'-P-O5'	-8.02	88.76	104.00
29	C5	26	DC	O3'-P-O5'	-8.02	88.76	104.00
32	C8	30	DC	O3'-P-O5'	-8.02	88.76	104.00
41	D6	36	DC	O3'-P-O5'	-8.02	88.76	104.00
43	D8	27	DC	O3'-P-O5'	-8.02	88.76	104.00
46	DC	9	DC	O3'-P-O5'	-8.02	88.76	104.00
48	E1	2	DC	O3'-P-O5'	-8.02	88.76	104.00
58	ED	12	DC	O3'-P-O5'	-8.02	88.76	104.00
59	F1	11	DC	O3'-P-O5'	-8.02	88.76	104.00
78	GA	16	DC	O3'-P-O5'	-8.02	88.76	104.00
199	S9	15	DC	O3'-P-O5'	-8.02	88.75	104.00
220	UD	22	DC	O3'-P-O5'	-8.02	88.75	104.00
223	V5	11	DC	O3'-P-O5'	-8.02	88.75	104.00
78	GA	6	DC	O3'-P-O5'	-8.02	88.76	104.00
82	H2	44	DC	O3'-P-O5'	-8.02	88.76	104.00
93	I2	5	DC	O3'-P-O5'	-8.02	88.76	104.00
99	I9	11	DC	O3'-P-O5'	-8.02	88.76	104.00
99	I9	22	DC	O3'-P-O5'	-8.02	88.76	104.00
104	J2	27	DC	O3'-P-O5'	-8.02	88.76	104.00
106	J5	24	DC	O3'-P-O5'	-8.02	88.76	104.00
121	K9	21	DC	O3'-P-O5'	-8.02	88.76	104.00
122	KA	18	DC	O3'-P-O5'	-8.02	88.76	104.00
130	L7	25	DC	O3'-P-O5'	-8.02	88.76	104.00
139	M6	10	DC	O3'-P-O5'	-8.02	88.76	104.00
158	O5	41	DC	O3'-P-O5'	-8.02	88.76	104.00
190	R9	41	DC	O3'-P-O5'	-8.02	88.76	104.00
195	S3	14	DC	O3'-P-O5'	-8.02	88.75	104.00
143	MA	18	DC	O3'-P-O5'	-8.02	88.76	104.00
149	N6	7	DC	O3'-P-O5'	-8.02	88.76	104.00
159	O6	16	DC	O3'-P-O5'	-8.02	88.76	104.00
160	O7	21	DC	O3'-P-O5'	-8.02	88.76	104.00
162	O9	8	DC	O3'-P-O5'	-8.02	88.76	104.00
188	R7	20	DC	O3'-P-O5'	-8.02	88.76	104.00
212	U2	5	DC	O3'-P-O5'	-8.02	88.76	104.00
195	S3	11	DC	O3'-P-O5'	-8.02	88.76	104.00
212	U2	11	DC	O3'-P-O5'	-8.02	88.76	104.00
213	U3	25	DC	O3'-P-O5'	-8.02	88.76	104.00
1	A1	7	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	2383	DC	O3'-P-O5'	-8.02	88.76	104.00
143	MA	47	DC	O3'-P-O5'	-8.02	88.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	21	DC	O3'-P-O5'	-8.02	88.77	104.00
1	A1	34	DC	O3'-P-O5'	-8.02	88.77	104.00
2	A2	14	DC	O3'-P-O5'	-8.02	88.77	104.00
7	A7	37	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	198	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	229	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	636	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	1714	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	677	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	707	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	1061	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	1598	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	2289	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	1230	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	1662	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	2636	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	3053	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	3560	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	4406	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	4972	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	3215	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	3770	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	3968	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5513	DC	O3'-P-O5'	-8.02	88.76	104.00
133	LA	15	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	4168	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	4851	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	4910	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	5218	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5478	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	5535	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5678	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5705	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	5831	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6401	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	5890	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6118	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6147	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	6395	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	6538	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	6607	DC	O3'-P-O5'	-8.02	88.76	104.00
11	AB	6756	DC	O3'-P-O5'	-8.02	88.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	CD	23	DC	O3'-P-O5'	-8.02	88.77	104.00
44	D9	13	DC	O3'-P-O5'	-8.02	88.76	104.00
47	DD	8	DC	O3'-P-O5'	-8.02	88.76	104.00
54	E8	15	DC	O3'-P-O5'	-8.02	88.76	104.00
58	ED	39	DC	O3'-P-O5'	-8.02	88.76	104.00
67	FA	12	DC	O3'-P-O5'	-8.02	88.76	104.00
68	FC	18	DC	O3'-P-O5'	-8.02	88.76	104.00
79	GC	25	DC	O3'-P-O5'	-8.02	88.76	104.00
92	I1	18	DC	O3'-P-O5'	-8.02	88.76	104.00
104	J2	32	DC	O3'-P-O5'	-8.02	88.76	104.00
104	J2	37	DC	O3'-P-O5'	-8.02	88.76	104.00
125	L1	26	DC	O3'-P-O5'	-8.02	88.76	104.00
149	N6	12	DC	O3'-P-O5'	-8.02	88.76	104.00
157	O3	7	DC	O3'-P-O5'	-8.02	88.76	104.00
158	O5	37	DC	O3'-P-O5'	-8.02	88.76	104.00
203	T2	11	DC	O3'-P-O5'	-8.02	88.76	104.00
226	V9	31	DC	O3'-P-O5'	-8.02	88.76	104.00
231	W5	32	DC	O3'-P-O5'	-8.02	88.76	104.00
60	F2	14	DC	O3'-P-O5'	-8.02	88.77	104.00
67	FA	19	DC	O3'-P-O5'	-8.02	88.77	104.00
82	H2	6	DC	O3'-P-O5'	-8.02	88.77	104.00
116	K3	8	DC	O3'-P-O5'	-8.02	88.77	104.00
124	KD	1	DC	O3'-P-O5'	-8.02	88.77	104.00
126	L2	58	DC	O3'-P-O5'	-8.02	88.77	104.00
188	R7	23	DC	O3'-P-O5'	-8.02	88.76	104.00
143	MA	36	DC	O3'-P-O5'	-8.02	88.77	104.00
147	N3	21	DC	O3'-P-O5'	-8.02	88.77	104.00
156	O2	2	DC	O3'-P-O5'	-8.02	88.77	104.00
161	O8	20	DC	O3'-P-O5'	-8.02	88.77	104.00
161	O8	30	DC	O3'-P-O5'	-8.02	88.77	104.00
171	P8	14	DC	O3'-P-O5'	-8.02	88.77	104.00
175	PD	1	DC	O3'-P-O5'	-8.02	88.76	104.00
193	RD	8	DC	O3'-P-O5'	-8.02	88.76	104.00
204	T3	9	DC	O3'-P-O5'	-8.02	88.76	104.00
204	T3	29	DC	O3'-P-O5'	-8.02	88.76	104.00
228	VC	13	DC	O3'-P-O5'	-8.02	88.76	104.00
237	X7	15	DC	O3'-P-O5'	-8.02	88.76	104.00
238	X9	33	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	463	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	588	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	728	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	1319	DC	O3'-P-O5'	-8.02	88.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3699	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	813	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	1833	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	2152	DC	O3'-P-O5'	-8.02	88.77	104.00
195	S3	3	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	1924	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	2275	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	2529	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	2554	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	2730	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	2746	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	2764	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	3110	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	3359	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	3921	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	4013	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	4250	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	4490	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	4765	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	5757	DC	O3'-P-O5'	-8.02	88.77	104.00
48	E1	32	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	4771	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	5040	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	5602	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	5637	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	5759	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6053	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6196	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6647	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6659	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6661	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6988	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	7118	DC	O3'-P-O5'	-8.02	88.77	104.00
37	D1	1	DC	O3'-P-O5'	-8.02	88.77	104.00
48	E1	18	DC	O3'-P-O5'	-8.02	88.77	104.00
95	I5	3	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6855	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	6903	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	7021	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	7139	DC	O3'-P-O5'	-8.02	88.77	104.00
18	B5	22	DC	O3'-P-O5'	-8.02	88.77	104.00
106	J5	2	DC	O3'-P-O5'	-8.02	88.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B5	25	DC	O3'-P-O5'	-8.02	88.77	104.00
30	C6	23	DC	O3'-P-O5'	-8.02	88.77	104.00
32	C8	34	DC	O3'-P-O5'	-8.02	88.77	104.00
32	C8	40	DC	O3'-P-O5'	-8.02	88.77	104.00
60	F2	34	DC	O3'-P-O5'	-8.02	88.77	104.00
64	F7	17	DC	O3'-P-O5'	-8.02	88.77	104.00
81	H1	10	DC	O3'-P-O5'	-8.02	88.77	104.00
82	H2	8	DC	O3'-P-O5'	-8.02	88.77	104.00
82	H2	12	DC	O3'-P-O5'	-8.02	88.77	104.00
84	H5	31	DC	O3'-P-O5'	-8.02	88.77	104.00
90	HC	10	DC	O3'-P-O5'	-8.02	88.77	104.00
94	I3	21	DC	O3'-P-O5'	-8.02	88.77	104.00
98	I8	13	DC	O3'-P-O5'	-8.02	88.77	104.00
104	J2	22	DC	O3'-P-O5'	-8.02	88.77	104.00
145	MD	25	DC	O3'-P-O5'	-8.02	88.77	104.00
156	O2	50	DC	O3'-P-O5'	-8.02	88.77	104.00
160	O7	45	DC	O3'-P-O5'	-8.02	88.77	104.00
187	R5	1	DC	O3'-P-O5'	-8.02	88.77	104.00
161	O8	38	DC	O3'-P-O5'	-8.02	88.77	104.00
167	P3	35	DC	O3'-P-O5'	-8.02	88.77	104.00
184	QD	23	DC	O3'-P-O5'	-8.02	88.77	104.00
189	R8	23	DC	O3'-P-O5'	-8.02	88.77	104.00
189	R8	38	DC	O3'-P-O5'	-8.02	88.77	104.00
223	V5	30	DC	O3'-P-O5'	-8.02	88.77	104.00
198	S8	14	DC	O3'-P-O5'	-8.02	88.77	104.00
202	SD	19	DC	O3'-P-O5'	-8.02	88.77	104.00
209	TA	1	DC	O3'-P-O5'	-8.02	88.77	104.00
227	VA	1	DC	O3'-P-O5'	-8.02	88.77	104.00
230	W3	31	DC	O3'-P-O5'	-8.02	88.77	104.00
237	X7	13	DC	O3'-P-O5'	-8.02	88.77	104.00
11	AB	62	DC	O3'-P-O5'	-8.01	88.77	104.00
11	AB	994	DC	O3'-P-O5'	-8.01	88.77	104.00
11	AB	4379	DC	O3'-P-O5'	-8.01	88.77	104.00
7	A7	6	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	758	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	837	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	902	DC	O3'-P-O5'	-8.01	88.77	104.00
11	AB	2854	DC	O3'-P-O5'	-8.01	88.77	104.00
11	AB	3346	DC	O3'-P-O5'	-8.01	88.77	104.00
11	AB	4026	DC	O3'-P-O5'	-8.01	88.77	104.00
209	TA	34	DC	O3'-P-O5'	-8.01	88.77	104.00
238	X9	12	DC	O3'-P-O5'	-8.01	88.77	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2190	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	2462	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	2658	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	2771	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	2837	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	3301	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4382	DC	O3'-P-O5'	-8.01	88.77	104.00
11	AB	4369	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4452	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4565	DC	O3'-P-O5'	-8.01	88.77	104.00
11	AB	4530	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4696	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4913	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4926	DC	O3'-P-O5'	-8.01	88.77	104.00
11	AB	4929	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	5431	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	5902	DC	O3'-P-O5'	-8.01	88.78	104.00
62	F5	43	DC	O3'-P-O5'	-8.01	88.77	104.00
97	I7	5	DC	O3'-P-O5'	-8.01	88.77	104.00
117	K5	48	DC	O3'-P-O5'	-8.01	88.77	104.00
11	AB	5960	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	5985	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	6025	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	6840	DC	O3'-P-O5'	-8.01	88.78	104.00
37	D1	37	DC	O3'-P-O5'	-8.01	88.78	104.00
45	DA	16	DC	O3'-P-O5'	-8.01	88.77	104.00
54	E8	6	DC	O3'-P-O5'	-8.01	88.78	104.00
62	F5	4	DC	O3'-P-O5'	-8.01	88.78	104.00
75	G7	3	DC	O3'-P-O5'	-8.01	88.78	104.00
76	G8	8	DC	O3'-P-O5'	-8.01	88.78	104.00
115	K2	21	DC	O3'-P-O5'	-8.01	88.78	104.00
120	K8	2	DC	O3'-P-O5'	-8.01	88.78	104.00
131	L8	8	DC	O3'-P-O5'	-8.01	88.78	104.00
140	M7	14	DC	O3'-P-O5'	-8.01	88.77	104.00
142	M9	6	DC	O3'-P-O5'	-8.01	88.78	104.00
160	O7	40	DC	O3'-P-O5'	-8.01	88.78	104.00
165	OD	44	DC	O3'-P-O5'	-8.01	88.78	104.00
187	R5	16	DC	O3'-P-O5'	-8.01	88.78	104.00
189	R8	19	DC	O3'-P-O5'	-8.01	88.78	104.00
216	U8	16	DC	O3'-P-O5'	-8.01	88.78	104.00
235	WD	16	DC	O3'-P-O5'	-8.01	88.78	104.00
238	X9	44	DC	O3'-P-O5'	-8.01	88.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	343	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	672	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	848	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	887	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	1078	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	1466	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	2613	DC	O3'-P-O5'	-8.01	88.78	104.00
125	L1	20	DC	O3'-P-O5'	-8.01	88.78	104.00
204	T3	26	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	3057	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	3187	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4362	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	6359	DC	O3'-P-O5'	-8.01	88.78	104.00
136	M2	19	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	3412	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	3750	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4261	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4401	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4526	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	5114	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	5120	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	5372	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	5416	DC	O3'-P-O5'	-8.01	88.78	104.00
82	H2	22	DC	O3'-P-O5'	-8.01	88.78	104.00
104	J2	5	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	5451	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	5491	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	5626	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	6082	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	6212	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	6703	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	6876	DC	O3'-P-O5'	-8.01	88.78	104.00
14	B1	41	DC	O3'-P-O5'	-8.01	88.78	104.00
41	D6	22	DC	O3'-P-O5'	-8.01	88.78	104.00
45	DA	25	DC	O3'-P-O5'	-8.01	88.78	104.00
48	E1	30	DC	O3'-P-O5'	-8.01	88.78	104.00
49	E2	19	DC	O3'-P-O5'	-8.01	88.78	104.00
52	E6	18	DC	O3'-P-O5'	-8.01	88.78	104.00
94	I3	11	DC	O3'-P-O5'	-8.01	88.78	104.00
105	J3	23	DC	O3'-P-O5'	-8.01	88.78	104.00
117	K5	8	DC	O3'-P-O5'	-8.01	88.78	104.00
126	L2	40	DC	O3'-P-O5'	-8.01	88.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
158	O5	21	DC	O3'-P-O5'	-8.01	88.78	104.00
199	S9	12	DC	O3'-P-O5'	-8.01	88.78	104.00
52	E6	26	DC	O3'-P-O5'	-8.01	88.78	104.00
55	E9	25	DC	O3'-P-O5'	-8.01	88.78	104.00
63	F6	21	DC	O3'-P-O5'	-8.01	88.78	104.00
66	F9	12	DC	O3'-P-O5'	-8.01	88.78	104.00
73	G5	3	DC	O3'-P-O5'	-8.01	88.78	104.00
93	I2	26	DC	O3'-P-O5'	-8.01	88.78	104.00
107	J6	18	DC	O3'-P-O5'	-8.01	88.78	104.00
114	K1	1	DC	O3'-P-O5'	-8.01	88.78	104.00
121	K9	7	DC	O3'-P-O5'	-8.01	88.78	104.00
127	L3	2	DC	O3'-P-O5'	-8.01	88.78	104.00
137	M3	32	DC	O3'-P-O5'	-8.01	88.78	104.00
139	M6	2	DC	O3'-P-O5'	-8.01	88.78	104.00
139	M6	24	DC	O3'-P-O5'	-8.01	88.78	104.00
140	M7	6	DC	O3'-P-O5'	-8.01	88.78	104.00
149	N6	39	DC	O3'-P-O5'	-8.01	88.78	104.00
152	N9	19	DC	O3'-P-O5'	-8.01	88.78	104.00
156	O2	46	DC	O3'-P-O5'	-8.01	88.78	104.00
164	OC	17	DC	O3'-P-O5'	-8.01	88.78	104.00
164	OC	24	DC	O3'-P-O5'	-8.01	88.78	104.00
174	PC	8	DC	O3'-P-O5'	-8.01	88.78	104.00
185	R2	16	DC	O3'-P-O5'	-8.01	88.78	104.00
175	PD	11	DC	O3'-P-O5'	-8.01	88.78	104.00
184	QD	5	DC	O3'-P-O5'	-8.01	88.78	104.00
194	S2	22	DC	O3'-P-O5'	-8.01	88.78	104.00
198	S8	19	DC	O3'-P-O5'	-8.01	88.78	104.00
200	SA	15	DC	O3'-P-O5'	-8.01	88.78	104.00
206	T7	32	DC	O3'-P-O5'	-8.01	88.78	104.00
211	TD	30	DC	O3'-P-O5'	-8.01	88.78	104.00
214	U5	3	DC	O3'-P-O5'	-8.01	88.78	104.00
220	UD	13	DC	O3'-P-O5'	-8.01	88.78	104.00
231	W5	16	DC	O3'-P-O5'	-8.01	88.78	104.00
1	A1	45	DC	O3'-P-O5'	-8.01	88.78	104.00
7	A7	23	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4504	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	4945	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	6371	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	6464	DC	O3'-P-O5'	-8.01	88.78	104.00
36	CD	9	DC	O3'-P-O5'	-8.01	88.78	104.00
58	ED	17	DC	O3'-P-O5'	-8.01	88.78	104.00
138	M5	13	DC	O3'-P-O5'	-8.01	88.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
173	PA	29	DC	O3'-P-O5'	-8.01	88.79	104.00
6	A6	17	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	643	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	702	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	3371	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	6706	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	6731	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	6852	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	7120	DC	O3'-P-O5'	-8.01	88.78	104.00
109	J8	18	DC	O3'-P-O5'	-8.01	88.78	104.00
193	RD	19	DC	O3'-P-O5'	-8.01	88.78	104.00
11	AB	1367	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	2103	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	2467	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	2563	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	2744	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	4077	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	4164	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	4299	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	4668	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	4840	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	5255	DC	O3'-P-O5'	-8.01	88.79	104.00
105	J3	31	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	5037	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	5170	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	5738	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	5750	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	6043	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	6934	DC	O3'-P-O5'	-8.01	88.79	104.00
29	C5	19	DC	O3'-P-O5'	-8.01	88.79	104.00
59	F1	13	DC	O3'-P-O5'	-8.01	88.78	104.00
145	MD	42	DC	O3'-P-O5'	-8.01	88.79	104.00
192	RC	5	DC	O3'-P-O5'	-8.01	88.78	104.00
18	B5	9	DC	O3'-P-O5'	-8.01	88.79	104.00
29	C5	14	DC	O3'-P-O5'	-8.01	88.79	104.00
52	E6	35	DC	O3'-P-O5'	-8.01	88.79	104.00
60	F2	2	DC	O3'-P-O5'	-8.01	88.79	104.00
62	F5	14	DC	O3'-P-O5'	-8.01	88.79	104.00
71	G2	20	DC	O3'-P-O5'	-8.01	88.79	104.00
178	Q5	22	DC	O3'-P-O5'	-8.01	88.79	104.00
75	G7	10	DC	O3'-P-O5'	-8.01	88.79	104.00
82	H2	40	DC	O3'-P-O5'	-8.01	88.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
91	HD	11	DC	O3'-P-O5'	-8.01	88.79	104.00
92	I1	8	DC	O3'-P-O5'	-8.01	88.79	104.00
93	I2	13	DC	O3'-P-O5'	-8.01	88.79	104.00
102	ID	13	DC	O3'-P-O5'	-8.01	88.79	104.00
130	L7	22	DC	O3'-P-O5'	-8.01	88.79	104.00
134	LC	8	DC	O3'-P-O5'	-8.01	88.79	104.00
137	M3	8	DC	O3'-P-O5'	-8.01	88.79	104.00
143	MA	22	DC	O3'-P-O5'	-8.01	88.79	104.00
165	OD	39	DC	O3'-P-O5'	-8.01	88.79	104.00
223	V5	26	DC	O3'-P-O5'	-8.01	88.79	104.00
156	O2	57	DC	O3'-P-O5'	-8.01	88.79	104.00
161	O8	34	DC	O3'-P-O5'	-8.01	88.79	104.00
165	OD	1	DC	O3'-P-O5'	-8.01	88.79	104.00
174	PC	12	DC	O3'-P-O5'	-8.01	88.79	104.00
183	QC	7	DC	O3'-P-O5'	-8.01	88.79	104.00
189	R8	29	DC	O3'-P-O5'	-8.01	88.79	104.00
192	RC	12	DC	O3'-P-O5'	-8.01	88.79	104.00
205	T5	4	DC	O3'-P-O5'	-8.01	88.79	104.00
206	T7	3	DC	O3'-P-O5'	-8.01	88.79	104.00
237	X7	20	DC	O3'-P-O5'	-8.01	88.79	104.00
11	AB	241	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	1624	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	1790	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	2997	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	3859	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	6289	DC	O3'-P-O5'	-8.00	88.79	104.00
61	F3	1	DC	O3'-P-O5'	-8.00	88.79	104.00
114	K1	17	DC	O3'-P-O5'	-8.00	88.79	104.00
164	OC	20	DC	O3'-P-O5'	-8.00	88.79	104.00
196	S5	17	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	517	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	605	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	1431	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	1887	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	1915	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	2242	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	2580	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	3085	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	3586	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	3590	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	4473	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	4546	DC	O3'-P-O5'	-8.00	88.79	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5106	DC	O3'-P-O5'	-8.00	88.79	104.00
21	B8	8	DC	O3'-P-O5'	-8.00	88.79	104.00
39	D3	13	DC	O3'-P-O5'	-8.00	88.79	104.00
56	EA	22	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	4703	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	5212	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	5334	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	5351	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	5427	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	5773	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	6059	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	6299	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	6436	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	6696	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	6927	DC	O3'-P-O5'	-8.00	88.80	104.00
35	CC	32	DC	O3'-P-O5'	-8.00	88.79	104.00
36	CD	12	DC	O3'-P-O5'	-8.00	88.80	104.00
52	E6	13	DC	O3'-P-O5'	-8.00	88.79	104.00
53	E7	17	DC	O3'-P-O5'	-8.00	88.79	104.00
57	EC	2	DC	O3'-P-O5'	-8.00	88.80	104.00
75	G7	19	DC	O3'-P-O5'	-8.00	88.79	104.00
90	HC	17	DC	O3'-P-O5'	-8.00	88.79	104.00
100	IA	9	DC	O3'-P-O5'	-8.00	88.79	104.00
140	M7	2	DC	O3'-P-O5'	-8.00	88.79	104.00
128	L5	11	DC	O3'-P-O5'	-8.00	88.80	104.00
152	N9	34	DC	O3'-P-O5'	-8.00	88.80	104.00
173	PA	11	DC	O3'-P-O5'	-8.00	88.80	104.00
179	Q7	18	DC	O3'-P-O5'	-8.00	88.80	104.00
184	QD	15	DC	O3'-P-O5'	-8.00	88.80	104.00
200	SA	27	DC	O3'-P-O5'	-8.00	88.79	104.00
211	TD	11	DC	O3'-P-O5'	-8.00	88.79	104.00
201	SC	6	DC	O3'-P-O5'	-8.00	88.80	104.00
229	VD	15	DC	O3'-P-O5'	-8.00	88.80	104.00
234	W9	10	DC	O3'-P-O5'	-8.00	88.79	104.00
11	AB	45	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	512	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	774	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	1207	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	1294	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	2645	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	2911	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	3655	DC	O3'-P-O5'	-8.00	88.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4386	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	4827	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	5405	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	5566	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	5858	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	6466	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	6819	DC	O3'-P-O5'	-8.00	88.80	104.00
22	B9	43	DC	O3'-P-O5'	-8.00	88.80	104.00
32	C8	23	DC	O3'-P-O5'	-8.00	88.80	104.00
38	D2	3	DC	O3'-P-O5'	-8.00	88.80	104.00
57	EC	4	DC	O3'-P-O5'	-8.00	88.80	104.00
89	HA	33	DC	O3'-P-O5'	-8.00	88.80	104.00
95	I5	15	DC	O3'-P-O5'	-8.00	88.80	104.00
126	L2	5	DC	O3'-P-O5'	-8.00	88.80	104.00
149	N6	32	DC	O3'-P-O5'	-8.00	88.80	104.00
153	NA	9	DC	O3'-P-O5'	-8.00	88.80	104.00
156	O2	31	DC	O3'-P-O5'	-8.00	88.80	104.00
165	OD	16	DC	O3'-P-O5'	-8.00	88.80	104.00
180	Q8	13	DC	O3'-P-O5'	-8.00	88.80	104.00
182	QA	21	DC	O3'-P-O5'	-8.00	88.80	104.00
210	TC	22	DC	O3'-P-O5'	-8.00	88.80	104.00
233	W8	8	DC	O3'-P-O5'	-8.00	88.80	104.00
4	A4	14	DC	O3'-P-O5'	-8.00	88.80	104.00
10	AA	8	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	472	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	4044	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	4177	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	5722	DC	O3'-P-O5'	-8.00	88.80	104.00
11	AB	6031	DC	O3'-P-O5'	-8.00	88.80	104.00
14	B1	22	DC	O3'-P-O5'	-8.00	88.81	104.00
37	D1	22	DC	O3'-P-O5'	-8.00	88.80	104.00
69	FD	3	DC	O3'-P-O5'	-8.00	88.80	104.00
69	FD	38	DC	O3'-P-O5'	-8.00	88.80	104.00
93	I2	2	DC	O3'-P-O5'	-8.00	88.80	104.00
125	L1	13	DC	O3'-P-O5'	-8.00	88.80	104.00
186	R3	7	DC	O3'-P-O5'	-8.00	88.80	104.00
187	R5	34	DC	O3'-P-O5'	-8.00	88.80	104.00
194	S2	16	DC	O3'-P-O5'	-8.00	88.80	104.00
197	S7	2	DC	O3'-P-O5'	-8.00	88.80	104.00
205	T5	14	DC	O3'-P-O5'	-8.00	88.80	104.00
207	T8	12	DC	O3'-P-O5'	-8.00	88.80	104.00
237	X7	7	DC	O3'-P-O5'	-8.00	88.80	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	76	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	1864	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	2840	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	3023	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	3631	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	3964	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	4053	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	4577	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	6040	DC	O3'-P-O5'	-8.00	88.81	104.00
15	B2	14	DC	O3'-P-O5'	-8.00	88.81	104.00
21	B8	20	DC	O3'-P-O5'	-8.00	88.81	104.00
22	B9	38	DC	O3'-P-O5'	-8.00	88.81	104.00
26	C1	25	DC	O3'-P-O5'	-8.00	88.81	104.00
47	DD	42	DC	O3'-P-O5'	-8.00	88.81	104.00
64	F7	22	DC	O3'-P-O5'	-8.00	88.81	104.00
69	FD	29	DC	O3'-P-O5'	-8.00	88.81	104.00
98	I8	9	DC	O3'-P-O5'	-8.00	88.81	104.00
108	J7	22	DC	O3'-P-O5'	-8.00	88.81	104.00
108	J7	46	DC	O3'-P-O5'	-8.00	88.81	104.00
109	J8	9	DC	O3'-P-O5'	-8.00	88.81	104.00
128	L5	18	DC	O3'-P-O5'	-8.00	88.81	104.00
202	SD	23	DC	O3'-P-O5'	-8.00	88.81	104.00
210	TC	8	DC	O3'-P-O5'	-8.00	88.81	104.00
220	UD	20	DC	O3'-P-O5'	-8.00	88.81	104.00
226	V9	13	DC	O3'-P-O5'	-8.00	88.81	104.00
230	W3	17	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	34	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	3121	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	3272	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	4630	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	6845	DC	O3'-P-O5'	-8.00	88.81	104.00
23	BA	18	DC	O3'-P-O5'	-8.00	88.81	104.00
107	J6	27	DC	O3'-P-O5'	-8.00	88.81	104.00
128	L5	21	DC	O3'-P-O5'	-8.00	88.81	104.00
130	L7	32	DC	O3'-P-O5'	-8.00	88.81	104.00
201	SC	1	DC	O3'-P-O5'	-8.00	88.81	104.00
227	VA	17	DC	O3'-P-O5'	-8.00	88.81	104.00
11	AB	4217	DC	O3'-P-O5'	-7.99	88.81	104.00
11	AB	4445	DC	O3'-P-O5'	-7.99	88.81	104.00
11	AB	5484	DC	O3'-P-O5'	-7.99	88.81	104.00
11	AB	6961	DC	O3'-P-O5'	-7.99	88.81	104.00
11	AB	7085	DC	O3'-P-O5'	-7.99	88.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B6	1	DC	O3'-P-O5'	-7.99	88.81	104.00
22	B9	36	DC	O3'-P-O5'	-7.99	88.81	104.00
31	C7	31	DC	O3'-P-O5'	-7.99	88.81	104.00
32	C8	9	DC	O3'-P-O5'	-7.99	88.81	104.00
38	D2	9	DC	O3'-P-O5'	-7.99	88.81	104.00
47	DD	30	DC	O3'-P-O5'	-7.99	88.81	104.00
47	DD	39	DC	O3'-P-O5'	-7.99	88.81	104.00
82	H2	48	DC	O3'-P-O5'	-7.99	88.81	104.00
90	HC	23	DC	O3'-P-O5'	-7.99	88.81	104.00
112	JC	10	DC	O3'-P-O5'	-7.99	88.81	104.00
123	KC	25	DC	O3'-P-O5'	-7.99	88.81	104.00
168	P5	5	DC	O3'-P-O5'	-7.99	88.81	104.00
188	R7	15	DC	O3'-P-O5'	-7.99	88.81	104.00
189	R8	35	DC	O3'-P-O5'	-7.99	88.81	104.00
203	T2	24	DC	O3'-P-O5'	-7.99	88.81	104.00
208	T9	15	DC	O3'-P-O5'	-7.99	88.81	104.00
11	AB	2557	DC	O3'-P-O5'	-7.99	88.81	104.00
11	AB	4506	DC	O3'-P-O5'	-7.99	88.82	104.00
156	O2	5	DC	O3'-P-O5'	-7.99	88.81	104.00
192	RC	8	DC	O3'-P-O5'	-7.99	88.81	104.00
238	X9	50	DC	O3'-P-O5'	-7.99	88.81	104.00
1	A1	16	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	1626	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	2251	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	2724	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	3077	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	3379	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	4341	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	4584	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	4782	DC	O3'-P-O5'	-7.99	88.82	104.00
41	D6	13	DC	O3'-P-O5'	-7.99	88.82	104.00
75	G7	28	DC	O3'-P-O5'	-7.99	88.82	104.00
120	K8	15	DC	O3'-P-O5'	-7.99	88.82	104.00
142	M9	18	DC	O3'-P-O5'	-7.99	88.82	104.00
149	N6	42	DC	O3'-P-O5'	-7.99	88.82	104.00
201	SC	9	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	58	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	325	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	2166	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	2388	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	2448	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	2788	DC	O3'-P-O5'	-7.99	88.82	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3569	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	3733	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	4199	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	4442	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	4497	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	5188	DC	O3'-P-O5'	-7.99	88.82	104.00
69	FD	17	DC	O3'-P-O5'	-7.99	88.82	104.00
94	I3	14	DC	O3'-P-O5'	-7.99	88.82	104.00
122	KA	25	DC	O3'-P-O5'	-7.99	88.82	104.00
127	L3	11	DC	O3'-P-O5'	-7.99	88.82	104.00
145	MD	4	DC	O3'-P-O5'	-7.99	88.82	104.00
165	OD	20	DC	O3'-P-O5'	-7.99	88.82	104.00
167	P3	16	DC	O3'-P-O5'	-7.99	88.82	104.00
167	P3	30	DC	O3'-P-O5'	-7.99	88.82	104.00
196	S5	14	DC	O3'-P-O5'	-7.99	88.82	104.00
230	W3	46	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	87	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	5480	DC	O3'-P-O5'	-7.99	88.83	104.00
11	AB	6387	DC	O3'-P-O5'	-7.99	88.83	104.00
35	CC	34	DC	O3'-P-O5'	-7.99	88.83	104.00
75	G7	22	DC	O3'-P-O5'	-7.99	88.82	104.00
11	AB	105	DC	O3'-P-O5'	-7.99	88.83	104.00
11	AB	718	DC	O3'-P-O5'	-7.99	88.83	104.00
11	AB	1426	DC	O3'-P-O5'	-7.99	88.83	104.00
11	AB	2319	DC	O3'-P-O5'	-7.99	88.83	104.00
11	AB	3415	DC	O3'-P-O5'	-7.99	88.83	104.00
11	AB	3804	DC	O3'-P-O5'	-7.99	88.83	104.00
11	AB	4717	DC	O3'-P-O5'	-7.99	88.83	104.00
11	AB	6535	DC	O3'-P-O5'	-7.99	88.83	104.00
100	IA	21	DC	O3'-P-O5'	-7.99	88.83	104.00
101	IC	6	DC	O3'-P-O5'	-7.99	88.83	104.00
131	L8	18	DC	O3'-P-O5'	-7.99	88.83	104.00
160	O7	33	DC	O3'-P-O5'	-7.99	88.83	104.00
11	AB	2216	DC	O3'-P-O5'	-7.98	88.83	104.00
11	AB	2374	DC	O3'-P-O5'	-7.98	88.83	104.00
11	AB	6973	DC	O3'-P-O5'	-7.98	88.83	104.00
66	F9	8	DC	O3'-P-O5'	-7.98	88.83	104.00
73	G5	5	DC	O3'-P-O5'	-7.98	88.83	104.00
109	J8	13	DC	O3'-P-O5'	-7.98	88.83	104.00
204	T3	41	DC	O3'-P-O5'	-7.98	88.83	104.00
228	VC	5	DC	O3'-P-O5'	-7.98	88.83	104.00
234	W9	5	DC	O3'-P-O5'	-7.98	88.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1109	DC	O3'-P-O5'	-7.98	88.83	104.00
50	E3	5	DC	O3'-P-O5'	-7.98	88.83	104.00
73	G5	20	DC	O3'-P-O5'	-7.98	88.83	104.00
147	N3	30	DC	O3'-P-O5'	-7.98	88.83	104.00
217	U9	9	DC	O3'-P-O5'	-7.98	88.83	104.00
11	AB	487	DC	O3'-P-O5'	-7.98	88.84	104.00
11	AB	1637	DC	O3'-P-O5'	-7.98	88.84	104.00
11	AB	2551	DC	O3'-P-O5'	-7.98	88.84	104.00
11	AB	2652	DC	O3'-P-O5'	-7.98	88.83	104.00
11	AB	4708	DC	O3'-P-O5'	-7.98	88.84	104.00
11	AB	4988	DC	O3'-P-O5'	-7.98	88.84	104.00
11	AB	5947	DC	O3'-P-O5'	-7.98	88.84	104.00
104	J2	8	DC	O3'-P-O5'	-7.98	88.84	104.00
161	O8	55	DC	O3'-P-O5'	-7.98	88.84	104.00
166	P2	24	DC	O3'-P-O5'	-7.98	88.84	104.00
238	X9	14	DC	O3'-P-O5'	-7.98	88.84	104.00
11	AB	549	DC	O3'-P-O5'	-7.98	88.84	104.00
11	AB	1176	DC	O3'-P-O5'	-7.98	88.84	104.00
84	H5	38	DC	O3'-P-O5'	-7.98	88.84	104.00
145	MD	27	DC	O3'-P-O5'	-7.98	88.84	104.00
1	A1	13	DC	O3'-P-O5'	-7.98	88.84	104.00
1	A1	31	DC	O3'-P-O5'	-7.98	88.84	104.00
11	AB	6364	DC	O3'-P-O5'	-7.98	88.84	104.00
126	L2	43	DC	O3'-P-O5'	-7.98	88.84	104.00
141	M8	9	DC	O3'-P-O5'	-7.98	88.84	104.00
11	AB	3356	DC	O3'-P-O5'	-7.97	88.85	104.00
11	AB	5472	DC	O3'-P-O5'	-7.97	88.85	104.00
11	AB	6028	DC	O3'-P-O5'	-7.97	88.85	104.00
11	AB	6685	DC	O3'-P-O5'	-7.97	88.85	104.00
114	K1	5	DC	O3'-P-O5'	-7.97	88.85	104.00
195	S3	8	DC	O3'-P-O5'	-7.97	88.85	104.00
11	AB	2740	DC	O3'-P-O5'	-7.97	88.85	104.00
11	AB	4773	DC	O3'-P-O5'	-7.97	88.85	104.00
171	P8	27	DC	O3'-P-O5'	-7.97	88.86	104.00
11	AB	4775	DC	O3'-P-O5'	-7.97	88.86	104.00
65	F8	6	DC	O3'-P-O5'	-7.97	88.86	104.00
117	K5	41	DC	O3'-P-O5'	-7.97	88.86	104.00
134	LC	5	DC	O3'-P-O5'	-7.97	88.86	104.00
155	ND	5	DC	O3'-P-O5'	-7.97	88.86	104.00
202	SD	26	DC	O3'-P-O5'	-7.97	88.86	104.00
11	AB	1646	DC	O3'-P-O5'	-7.97	88.86	104.00
143	MA	24	DC	O3'-P-O5'	-7.96	88.87	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4843	DC	O3'-P-O5'	-7.95	88.89	104.00
11	AB	3081	DC	O3'-P-O5'	-7.95	88.89	104.00
11	AB	2446	DC	O3'-P-O5'	-7.95	88.90	104.00
11	AB	3943	DC	O3'-P-O5'	-7.95	88.90	104.00
11	AB	6797	DC	O3'-P-O5'	-7.95	88.90	104.00
11	AB	5003	DC	O3'-P-O5'	-7.94	88.91	104.00
11	AB	275	DC	O3'-P-O5'	-7.93	88.92	104.00
11	AB	1616	DC	O3'-P-O5'	-7.92	88.95	104.00
11	AB	2906	DC	O3'-P-O5'	-7.90	88.99	104.00
125	L1	32	DA	O3'-P-O5'	-7.62	89.52	104.00
11	AB	2667	DA	O3'-P-O5'	-7.62	89.53	104.00
106	J5	5	DA	O3'-P-O5'	-7.61	89.54	104.00
49	E2	3	DA	O3'-P-O5'	-7.61	89.55	104.00
120	K8	3	DA	O3'-P-O5'	-7.61	89.55	104.00
11	AB	2593	DA	O3'-P-O5'	-7.60	89.55	104.00
105	J3	32	DA	O3'-P-O5'	-7.60	89.55	104.00
149	N6	20	DA	O3'-P-O5'	-7.60	89.55	104.00
11	AB	633	DA	O3'-P-O5'	-7.60	89.55	104.00
13	AD	13	DA	O3'-P-O5'	-7.60	89.56	104.00
154	NC	7	DA	O3'-P-O5'	-7.60	89.56	104.00
11	AB	4238	DA	O3'-P-O5'	-7.60	89.56	104.00
18	B5	32	DA	O3'-P-O5'	-7.60	89.56	104.00
182	QA	19	DA	O3'-P-O5'	-7.60	89.56	104.00
190	R9	22	DA	O3'-P-O5'	-7.60	89.56	104.00
11	AB	179	DA	O3'-P-O5'	-7.60	89.56	104.00
11	AB	6510	DA	O3'-P-O5'	-7.60	89.56	104.00
61	F3	22	DA	O3'-P-O5'	-7.60	89.56	104.00
137	M3	33	DA	O3'-P-O5'	-7.60	89.56	104.00
155	ND	19	DA	O3'-P-O5'	-7.60	89.56	104.00
156	O2	41	DA	O3'-P-O5'	-7.60	89.56	104.00
214	U5	37	DA	O3'-P-O5'	-7.60	89.56	104.00
233	W8	17	DA	O3'-P-O5'	-7.60	89.56	104.00
44	D9	16	DA	O3'-P-O5'	-7.60	89.56	104.00
51	E5	15	DA	O3'-P-O5'	-7.60	89.57	104.00
117	K5	35	DA	O3'-P-O5'	-7.60	89.57	104.00
152	N9	44	DA	O3'-P-O5'	-7.60	89.56	104.00
11	AB	2515	DA	O3'-P-O5'	-7.60	89.57	104.00
207	T8	27	DA	O3'-P-O5'	-7.60	89.57	104.00
11	AB	1534	DA	O3'-P-O5'	-7.59	89.57	104.00
13	AD	10	DA	O3'-P-O5'	-7.59	89.57	104.00
16	B3	11	DA	O3'-P-O5'	-7.59	89.57	104.00
152	N9	30	DA	O3'-P-O5'	-7.59	89.57	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
167	P3	36	DA	O3'-P-O5'	-7.59	89.57	104.00
195	S3	23	DA	O3'-P-O5'	-7.59	89.57	104.00
228	VC	28	DA	O3'-P-O5'	-7.59	89.57	104.00
76	G8	22	DA	O3'-P-O5'	-7.59	89.57	104.00
131	L8	16	DA	O3'-P-O5'	-7.59	89.57	104.00
166	P2	8	DA	O3'-P-O5'	-7.59	89.57	104.00
168	P5	8	DA	O3'-P-O5'	-7.59	89.57	104.00
219	UC	26	DA	O3'-P-O5'	-7.59	89.57	104.00
231	W5	17	DA	O3'-P-O5'	-7.59	89.57	104.00
11	AB	589	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	3455	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	6179	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	6576	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	6671	DA	O3'-P-O5'	-7.59	89.58	104.00
93	I2	14	DA	O3'-P-O5'	-7.59	89.58	104.00
99	I9	28	DA	O3'-P-O5'	-7.59	89.58	104.00
147	N3	11	DA	O3'-P-O5'	-7.59	89.58	104.00
228	VC	34	DA	O3'-P-O5'	-7.59	89.58	104.00
230	W3	40	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	2855	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	3719	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	4479	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	4522	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	4664	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	5693	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	5709	DA	O3'-P-O5'	-7.59	89.58	104.00
21	B8	25	DA	O3'-P-O5'	-7.59	89.58	104.00
41	D6	2	DA	O3'-P-O5'	-7.59	89.58	104.00
55	E9	12	DA	O3'-P-O5'	-7.59	89.58	104.00
95	I5	13	DA	O3'-P-O5'	-7.59	89.58	104.00
130	L7	37	DA	O3'-P-O5'	-7.59	89.58	104.00
168	P5	14	DA	O3'-P-O5'	-7.59	89.58	104.00
180	Q8	25	DA	O3'-P-O5'	-7.59	89.58	104.00
209	TA	8	DA	O3'-P-O5'	-7.59	89.58	104.00
215	U7	10	DA	O3'-P-O5'	-7.59	89.58	104.00
228	VC	23	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	3841	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	4946	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	7080	DA	O3'-P-O5'	-7.59	89.58	104.00
94	I3	1	DA	O3'-P-O5'	-7.59	89.58	104.00
154	NC	9	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	725	DA	O3'-P-O5'	-7.59	89.59	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	941	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	2183	DA	O3'-P-O5'	-7.59	89.59	104.00
11	AB	4419	DA	O3'-P-O5'	-7.59	89.58	104.00
11	AB	4688	DA	O3'-P-O5'	-7.59	89.59	104.00
43	D8	32	DA	O3'-P-O5'	-7.59	89.59	104.00
95	I5	29	DA	O3'-P-O5'	-7.59	89.58	104.00
160	O7	46	DA	O3'-P-O5'	-7.59	89.59	104.00
175	PD	4	DA	O3'-P-O5'	-7.59	89.59	104.00
2	A2	6	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	613	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	6089	DA	O3'-P-O5'	-7.58	89.59	104.00
36	CD	2	DA	O3'-P-O5'	-7.58	89.59	104.00
45	DA	8	DA	O3'-P-O5'	-7.58	89.59	104.00
134	LC	15	DA	O3'-P-O5'	-7.58	89.59	104.00
146	N2	6	DA	O3'-P-O5'	-7.58	89.59	104.00
147	N3	1	DA	O3'-P-O5'	-7.58	89.59	104.00
150	N7	4	DA	O3'-P-O5'	-7.58	89.59	104.00
150	N7	21	DA	O3'-P-O5'	-7.58	89.59	104.00
206	T7	41	DA	O3'-P-O5'	-7.58	89.59	104.00
5	A5	18	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	1948	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	2080	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	2606	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	4531	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	4756	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	5717	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	5986	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	6820	DA	O3'-P-O5'	-7.58	89.59	104.00
13	AD	25	DA	O3'-P-O5'	-7.58	89.59	104.00
16	B3	5	DA	O3'-P-O5'	-7.58	89.59	104.00
20	B7	20	DA	O3'-P-O5'	-7.58	89.59	104.00
27	C2	19	DA	O3'-P-O5'	-7.58	89.59	104.00
36	CD	4	DA	O3'-P-O5'	-7.58	89.59	104.00
37	D1	30	DA	O3'-P-O5'	-7.58	89.59	104.00
39	D3	19	DA	O3'-P-O5'	-7.58	89.59	104.00
43	D8	34	DA	O3'-P-O5'	-7.58	89.59	104.00
52	E6	3	DA	O3'-P-O5'	-7.58	89.59	104.00
59	F1	3	DA	O3'-P-O5'	-7.58	89.59	104.00
139	M6	12	DA	O3'-P-O5'	-7.58	89.59	104.00
151	N8	1	DA	O3'-P-O5'	-7.58	89.59	104.00
160	O7	41	DA	O3'-P-O5'	-7.58	89.59	104.00
5	A5	37	DA	O3'-P-O5'	-7.58	89.59	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	674	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	1530	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	2587	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	3471	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	6405	DA	O3'-P-O5'	-7.58	89.59	104.00
11	AB	6815	DA	O3'-P-O5'	-7.58	89.59	104.00
67	FA	26	DA	O3'-P-O5'	-7.58	89.59	104.00
97	I7	23	DA	O3'-P-O5'	-7.58	89.60	104.00
106	J5	13	DA	O3'-P-O5'	-7.58	89.59	104.00
143	MA	19	DA	O3'-P-O5'	-7.58	89.60	104.00
2	A2	2	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	937	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	2359	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	4684	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	6651	DA	O3'-P-O5'	-7.58	89.60	104.00
45	DA	21	DA	O3'-P-O5'	-7.58	89.60	104.00
89	HA	23	DA	O3'-P-O5'	-7.58	89.60	104.00
113	JD	9	DA	O3'-P-O5'	-7.58	89.60	104.00
117	K5	24	DA	O3'-P-O5'	-7.58	89.60	104.00
148	N5	6	DA	O3'-P-O5'	-7.58	89.60	104.00
149	N6	48	DA	O3'-P-O5'	-7.58	89.60	104.00
170	P7	11	DA	O3'-P-O5'	-7.58	89.60	104.00
213	U3	18	DA	O3'-P-O5'	-7.58	89.60	104.00
228	VC	11	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	219	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	3313	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	4225	DA	O3'-P-O5'	-7.58	89.60	104.00
28	C3	17	DA	O3'-P-O5'	-7.58	89.60	104.00
32	C8	41	DA	O3'-P-O5'	-7.58	89.60	104.00
88	H9	26	DA	O3'-P-O5'	-7.58	89.60	104.00
94	I3	36	DA	O3'-P-O5'	-7.58	89.60	104.00
95	I5	10	DA	O3'-P-O5'	-7.58	89.60	104.00
114	K1	25	DA	O3'-P-O5'	-7.58	89.60	104.00
124	KD	15	DA	O3'-P-O5'	-7.58	89.60	104.00
143	MA	29	DA	O3'-P-O5'	-7.58	89.60	104.00
143	MA	42	DA	O3'-P-O5'	-7.58	89.60	104.00
157	O3	9	DA	O3'-P-O5'	-7.58	89.60	104.00
169	P6	8	DA	O3'-P-O5'	-7.58	89.60	104.00
203	T2	9	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	1006	DA	O3'-P-O5'	-7.58	89.60	104.00
11	AB	4138	DA	O3'-P-O5'	-7.58	89.60	104.00
146	N2	21	DA	O3'-P-O5'	-7.58	89.60	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
156	O2	27	DA	O3'-P-O5'	-7.58	89.60	104.00
223	V5	20	DA	O3'-P-O5'	-7.58	89.61	104.00
11	AB	227	DA	O3'-P-O5'	-7.58	89.61	104.00
11	AB	421	DA	O3'-P-O5'	-7.58	89.61	104.00
11	AB	621	DA	O3'-P-O5'	-7.58	89.61	104.00
11	AB	1935	DA	O3'-P-O5'	-7.58	89.61	104.00
11	AB	5237	DA	O3'-P-O5'	-7.58	89.61	104.00
11	AB	6098	DA	O3'-P-O5'	-7.58	89.61	104.00
11	AB	6125	DA	O3'-P-O5'	-7.58	89.61	104.00
11	AB	7213	DA	O3'-P-O5'	-7.58	89.61	104.00
11	AB	7240	DA	O3'-P-O5'	-7.58	89.61	104.00
13	AD	27	DA	O3'-P-O5'	-7.58	89.61	104.00
39	D3	25	DA	O3'-P-O5'	-7.58	89.61	104.00
86	H7	12	DA	O3'-P-O5'	-7.58	89.61	104.00
91	HD	21	DA	O3'-P-O5'	-7.58	89.61	104.00
110	J9	9	DA	O3'-P-O5'	-7.58	89.61	104.00
111	JA	3	DA	O3'-P-O5'	-7.58	89.61	104.00
175	PD	16	DA	O3'-P-O5'	-7.58	89.61	104.00
195	S3	25	DA	O3'-P-O5'	-7.58	89.61	104.00
221	V2	14	DA	O3'-P-O5'	-7.58	89.61	104.00
234	W9	15	DA	O3'-P-O5'	-7.58	89.61	104.00
1	A1	22	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	436	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	2117	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	4853	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	4927	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	6242	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	6733	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	6877	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	6962	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	7037	DA	O3'-P-O5'	-7.57	89.61	104.00
41	D6	32	DA	O3'-P-O5'	-7.57	89.61	104.00
42	D7	3	DA	O3'-P-O5'	-7.57	89.61	104.00
57	EC	22	DA	O3'-P-O5'	-7.57	89.61	104.00
65	F8	17	DA	O3'-P-O5'	-7.57	89.61	104.00
69	FD	25	DA	O3'-P-O5'	-7.57	89.61	104.00
86	H7	19	DA	O3'-P-O5'	-7.57	89.61	104.00
87	H8	14	DA	O3'-P-O5'	-7.57	89.61	104.00
99	I9	9	DA	O3'-P-O5'	-7.57	89.61	104.00
106	J5	3	DA	O3'-P-O5'	-7.57	89.61	104.00
118	K6	12	DA	O3'-P-O5'	-7.57	89.61	104.00
123	KC	10	DA	O3'-P-O5'	-7.57	89.61	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
154	NC	5	DA	O3'-P-O5'	-7.57	89.61	104.00
173	PA	2	DA	O3'-P-O5'	-7.57	89.61	104.00
185	R2	18	DA	O3'-P-O5'	-7.57	89.61	104.00
199	S9	2	DA	O3'-P-O5'	-7.57	89.61	104.00
212	U2	27	DA	O3'-P-O5'	-7.57	89.61	104.00
228	VC	38	DA	O3'-P-O5'	-7.57	89.61	104.00
4	A4	7	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	1847	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	3122	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	4660	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	4992	DA	O3'-P-O5'	-7.57	89.61	104.00
17	B4	17	DA	O3'-P-O5'	-7.57	89.61	104.00
80	GD	11	DA	O3'-P-O5'	-7.57	89.61	104.00
84	H5	32	DA	O3'-P-O5'	-7.57	89.61	104.00
165	OD	10	DA	O3'-P-O5'	-7.57	89.61	104.00
198	S8	28	DA	O3'-P-O5'	-7.57	89.61	104.00
214	U5	16	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	242	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	815	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	2338	DA	O3'-P-O5'	-7.57	89.61	104.00
11	AB	2485	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	4082	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	6305	DA	O3'-P-O5'	-7.57	89.62	104.00
17	B4	15	DA	O3'-P-O5'	-7.57	89.61	104.00
29	C5	15	DA	O3'-P-O5'	-7.57	89.62	104.00
54	E8	36	DA	O3'-P-O5'	-7.57	89.62	104.00
63	F6	8	DA	O3'-P-O5'	-7.57	89.62	104.00
68	FC	13	DA	O3'-P-O5'	-7.57	89.62	104.00
71	G2	9	DA	O3'-P-O5'	-7.57	89.62	104.00
77	G9	9	DA	O3'-P-O5'	-7.57	89.62	104.00
78	GA	18	DA	O3'-P-O5'	-7.57	89.62	104.00
81	H1	11	DA	O3'-P-O5'	-7.57	89.62	104.00
115	K2	8	DA	O3'-P-O5'	-7.57	89.62	104.00
125	L1	44	DA	O3'-P-O5'	-7.57	89.62	104.00
131	L8	10	DA	O3'-P-O5'	-7.57	89.61	104.00
147	N3	3	DA	O3'-P-O5'	-7.57	89.62	104.00
158	O5	31	DA	O3'-P-O5'	-7.57	89.62	104.00
204	T3	30	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	1828	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	1834	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	3575	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	3944	DA	O3'-P-O5'	-7.57	89.62	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5000	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	6869	DA	O3'-P-O5'	-7.57	89.62	104.00
47	DD	24	DA	O3'-P-O5'	-7.57	89.62	104.00
78	GA	7	DA	O3'-P-O5'	-7.57	89.62	104.00
117	K5	2	DA	O3'-P-O5'	-7.57	89.62	104.00
125	L1	52	DA	O3'-P-O5'	-7.57	89.62	104.00
150	N7	2	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	583	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	2482	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	3306	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	3380	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	4354	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	4453	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	5859	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	5883	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	6238	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	6751	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	7194	DA	O3'-P-O5'	-7.57	89.62	104.00
68	FC	10	DA	O3'-P-O5'	-7.57	89.62	104.00
68	FC	16	DA	O3'-P-O5'	-7.57	89.62	104.00
89	HA	10	DA	O3'-P-O5'	-7.57	89.62	104.00
108	J7	33	DA	O3'-P-O5'	-7.57	89.62	104.00
146	N2	2	DA	O3'-P-O5'	-7.57	89.62	104.00
185	R2	3	DA	O3'-P-O5'	-7.57	89.62	104.00
210	TC	29	DA	O3'-P-O5'	-7.57	89.62	104.00
225	V8	12	DA	O3'-P-O5'	-7.57	89.62	104.00
5	A5	22	DA	O3'-P-O5'	-7.57	89.63	104.00
10	AA	25	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	358	DA	O3'-P-O5'	-7.57	89.63	104.00
11	AB	5300	DA	O3'-P-O5'	-7.57	89.62	104.00
11	AB	6086	DA	O3'-P-O5'	-7.57	89.63	104.00
30	C6	42	DA	O3'-P-O5'	-7.57	89.62	104.00
48	E1	10	DA	O3'-P-O5'	-7.57	89.63	104.00
83	H3	25	DA	O3'-P-O5'	-7.57	89.62	104.00
95	I5	31	DA	O3'-P-O5'	-7.57	89.62	104.00
109	J8	1	DA	O3'-P-O5'	-7.57	89.63	104.00
142	M9	4	DA	O3'-P-O5'	-7.57	89.62	104.00
159	O6	4	DA	O3'-P-O5'	-7.57	89.63	104.00
173	PA	6	DA	O3'-P-O5'	-7.57	89.63	104.00
238	X9	19	DA	O3'-P-O5'	-7.57	89.63	104.00
11	AB	1807	DA	O3'-P-O5'	-7.56	89.63	104.00
39	D3	27	DA	O3'-P-O5'	-7.56	89.63	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
138	M5	22	DA	O3'-P-O5'	-7.56	89.63	104.00
160	O7	35	DA	O3'-P-O5'	-7.56	89.63	104.00
223	V5	36	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	406	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	1518	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	1701	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	1796	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	1818	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	2602	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	2695	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	6249	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	7234	DA	O3'-P-O5'	-7.56	89.63	104.00
19	B6	13	DA	O3'-P-O5'	-7.56	89.63	104.00
39	D3	31	DA	O3'-P-O5'	-7.56	89.63	104.00
83	H3	41	DA	O3'-P-O5'	-7.56	89.63	104.00
114	K1	27	DA	O3'-P-O5'	-7.56	89.63	104.00
130	L7	9	DA	O3'-P-O5'	-7.56	89.63	104.00
160	O7	3	DA	O3'-P-O5'	-7.56	89.63	104.00
191	RA	8	DA	O3'-P-O5'	-7.56	89.63	104.00
225	V8	10	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	3333	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	3997	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	5067	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	6727	DA	O3'-P-O5'	-7.56	89.63	104.00
11	AB	6799	DA	O3'-P-O5'	-7.56	89.63	104.00
24	BC	38	DA	O3'-P-O5'	-7.56	89.64	104.00
46	DC	19	DA	O3'-P-O5'	-7.56	89.63	104.00
49	E2	29	DA	O3'-P-O5'	-7.56	89.63	104.00
60	F2	26	DA	O3'-P-O5'	-7.56	89.63	104.00
89	HA	19	DA	O3'-P-O5'	-7.56	89.63	104.00
174	PC	25	DA	O3'-P-O5'	-7.56	89.63	104.00
7	A7	7	DA	O3'-P-O5'	-7.56	89.64	104.00
11	AB	637	DA	O3'-P-O5'	-7.56	89.64	104.00
11	AB	4292	DA	O3'-P-O5'	-7.56	89.64	104.00
11	AB	6339	DA	O3'-P-O5'	-7.56	89.64	104.00
13	AD	21	DA	O3'-P-O5'	-7.56	89.64	104.00
35	CC	6	DA	O3'-P-O5'	-7.56	89.64	104.00
58	ED	28	DA	O3'-P-O5'	-7.56	89.64	104.00
196	S5	3	DA	O3'-P-O5'	-7.56	89.64	104.00
206	T7	53	DA	O3'-P-O5'	-7.56	89.64	104.00
220	UD	8	DA	O3'-P-O5'	-7.56	89.64	104.00
226	V9	23	DA	O3'-P-O5'	-7.56	89.64	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5520	DA	O3'-P-O5'	-7.56	89.64	104.00
30	C6	24	DA	O3'-P-O5'	-7.56	89.64	104.00
98	I8	24	DA	O3'-P-O5'	-7.56	89.64	104.00
138	M5	5	DA	O3'-P-O5'	-7.56	89.64	104.00
138	M5	27	DA	O3'-P-O5'	-7.56	89.64	104.00
140	M7	12	DA	O3'-P-O5'	-7.56	89.64	104.00
161	O8	13	DA	O3'-P-O5'	-7.56	89.64	104.00
188	R7	24	DA	O3'-P-O5'	-7.56	89.64	104.00
199	S9	4	DA	O3'-P-O5'	-7.56	89.64	104.00
235	WD	11	DA	O3'-P-O5'	-7.56	89.64	104.00
11	AB	3899	DA	O3'-P-O5'	-7.56	89.64	104.00
45	DA	12	DA	O3'-P-O5'	-7.56	89.64	104.00
11	AB	2686	DA	O3'-P-O5'	-7.55	89.65	104.00
11	AB	3324	DA	O3'-P-O5'	-7.55	89.65	104.00
11	AB	6000	DA	O3'-P-O5'	-7.55	89.65	104.00
11	AB	6594	DA	O3'-P-O5'	-7.55	89.65	104.00
55	E9	42	DA	O3'-P-O5'	-7.55	89.65	104.00
83	H3	23	DA	O3'-P-O5'	-7.55	89.64	104.00
92	I1	21	DA	O3'-P-O5'	-7.55	89.65	104.00
106	J5	26	DA	O3'-P-O5'	-7.55	89.64	104.00
203	T2	12	DA	O3'-P-O5'	-7.55	89.65	104.00
216	U8	4	DA	O3'-P-O5'	-7.55	89.65	104.00
11	AB	451	DA	O3'-P-O5'	-7.55	89.65	104.00
11	AB	2614	DA	O3'-P-O5'	-7.55	89.65	104.00
11	AB	3836	DA	O3'-P-O5'	-7.55	89.65	104.00
11	AB	4130	DA	O3'-P-O5'	-7.55	89.65	104.00
11	AB	269	DA	O3'-P-O5'	-7.55	89.65	104.00
11	AB	5082	DA	O3'-P-O5'	-7.55	89.65	104.00
32	C8	7	DA	O3'-P-O5'	-7.55	89.65	104.00
93	I2	20	DA	O3'-P-O5'	-7.55	89.65	104.00
111	JA	5	DA	O3'-P-O5'	-7.55	89.65	104.00
137	M3	12	DA	O3'-P-O5'	-7.55	89.65	104.00
163	OA	1	DA	O3'-P-O5'	-7.55	89.65	104.00
11	AB	2032	DA	O3'-P-O5'	-7.55	89.66	104.00
38	D2	5	DA	O3'-P-O5'	-7.55	89.66	104.00
76	G8	5	DA	O3'-P-O5'	-7.55	89.66	104.00
122	KA	32	DA	O3'-P-O5'	-7.55	89.66	104.00
154	NC	29	DA	O3'-P-O5'	-7.55	89.66	104.00
194	S2	3	DA	O3'-P-O5'	-7.55	89.66	104.00
227	VA	6	DA	O3'-P-O5'	-7.55	89.66	104.00
11	AB	3561	DA	O3'-P-O5'	-7.55	89.66	104.00
229	VD	6	DA	O3'-P-O5'	-7.55	89.66	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4109	DA	O3'-P-O5'	-7.55	89.66	104.00
29	C5	39	DA	O3'-P-O5'	-7.55	89.66	104.00
49	E2	27	DA	O3'-P-O5'	-7.55	89.66	104.00
90	HC	24	DA	O3'-P-O5'	-7.55	89.66	104.00
14	B1	17	DA	O3'-P-O5'	-7.54	89.67	104.00
190	R9	27	DA	O3'-P-O5'	-7.54	89.66	104.00
4	A4	9	DA	O3'-P-O5'	-7.54	89.67	104.00
11	AB	3251	DA	O3'-P-O5'	-7.54	89.67	104.00
224	V7	20	DA	O3'-P-O5'	-7.54	89.67	104.00
11	AB	1610	DA	O3'-P-O5'	-7.54	89.67	104.00
11	AB	6935	DA	O3'-P-O5'	-7.54	89.67	104.00
119	K7	12	DA	O3'-P-O5'	-7.54	89.67	104.00
181	Q9	1	DA	O3'-P-O5'	-7.54	89.67	104.00
183	QC	20	DA	O3'-P-O5'	-7.54	89.67	104.00
11	AB	2916	DA	O3'-P-O5'	-7.54	89.67	104.00
11	AB	3823	DA	O3'-P-O5'	-7.54	89.67	104.00
11	AB	5115	DA	O3'-P-O5'	-7.54	89.68	104.00
11	AB	5193	DA	O3'-P-O5'	-7.54	89.68	104.00
62	F5	47	DA	O3'-P-O5'	-7.54	89.67	104.00
74	G6	6	DA	O3'-P-O5'	-7.54	89.67	104.00
205	T5	21	DA	O3'-P-O5'	-7.54	89.68	104.00
234	W9	13	DA	O3'-P-O5'	-7.54	89.68	104.00
11	AB	7064	DA	O3'-P-O5'	-7.54	89.68	104.00
156	O2	58	DA	O3'-P-O5'	-7.54	89.68	104.00
185	R2	10	DA	O3'-P-O5'	-7.54	89.68	104.00
11	AB	2076	DA	O3'-P-O5'	-7.54	89.68	104.00
11	AB	3065	DA	O3'-P-O5'	-7.54	89.68	104.00
11	AB	3231	DA	O3'-P-O5'	-7.54	89.68	104.00
14	B1	6	DA	O3'-P-O5'	-7.54	89.68	104.00
24	BC	7	DA	O3'-P-O5'	-7.54	89.68	104.00
73	G5	15	DA	O3'-P-O5'	-7.54	89.68	104.00
87	H8	20	DA	O3'-P-O5'	-7.54	89.68	104.00
136	M2	15	DA	O3'-P-O5'	-7.54	89.68	104.00
11	AB	547	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	3862	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	4833	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	5657	DA	O3'-P-O5'	-7.53	89.69	104.00
14	B1	19	DA	O3'-P-O5'	-7.53	89.69	104.00
14	B1	26	DA	O3'-P-O5'	-7.53	89.69	104.00
22	B9	49	DA	O3'-P-O5'	-7.53	89.68	104.00
69	FD	39	DA	O3'-P-O5'	-7.53	89.69	104.00
94	I3	16	DA	O3'-P-O5'	-7.53	89.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
117	K5	42	DA	O3'-P-O5'	-7.53	89.69	104.00
145	MD	54	DA	O3'-P-O5'	-7.53	89.69	104.00
186	R3	10	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	60	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	3042	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	3817	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	4337	DA	O3'-P-O5'	-7.53	89.69	104.00
148	N5	28	DA	O3'-P-O5'	-7.53	89.69	104.00
153	NA	12	DA	O3'-P-O5'	-7.53	89.69	104.00
204	T3	37	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	335	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	1647	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	2728	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	3741	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	4047	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	6056	DA	O3'-P-O5'	-7.53	89.69	104.00
21	B8	14	DA	O3'-P-O5'	-7.53	89.69	104.00
31	C7	2	DA	O3'-P-O5'	-7.53	89.69	104.00
32	C8	35	DA	O3'-P-O5'	-7.53	89.69	104.00
48	E1	4	DA	O3'-P-O5'	-7.53	89.69	104.00
80	GD	15	DA	O3'-P-O5'	-7.53	89.69	104.00
84	H5	39	DA	O3'-P-O5'	-7.53	89.69	104.00
121	K9	8	DA	O3'-P-O5'	-7.53	89.69	104.00
127	L3	3	DA	O3'-P-O5'	-7.53	89.69	104.00
155	ND	9	DA	O3'-P-O5'	-7.53	89.69	104.00
165	OD	54	DA	O3'-P-O5'	-7.53	89.69	104.00
167	P3	28	DA	O3'-P-O5'	-7.53	89.69	104.00
6	A6	27	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	4024	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	4056	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	5041	DA	O3'-P-O5'	-7.53	89.70	104.00
44	D9	25	DA	O3'-P-O5'	-7.53	89.69	104.00
161	O8	35	DA	O3'-P-O5'	-7.53	89.69	104.00
201	SC	10	DA	O3'-P-O5'	-7.53	89.69	104.00
11	AB	112	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	125	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	4963	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	6029	DA	O3'-P-O5'	-7.53	89.70	104.00
109	J8	10	DA	O3'-P-O5'	-7.53	89.70	104.00
126	L2	47	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	761	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	3429	DA	O3'-P-O5'	-7.53	89.70	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4513	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	5044	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	5634	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	7029	DA	O3'-P-O5'	-7.53	89.70	104.00
48	E1	6	DA	O3'-P-O5'	-7.53	89.70	104.00
67	FA	5	DA	O3'-P-O5'	-7.53	89.70	104.00
92	I1	12	DA	O3'-P-O5'	-7.53	89.70	104.00
112	JC	11	DA	O3'-P-O5'	-7.53	89.70	104.00
165	OD	5	DA	O3'-P-O5'	-7.53	89.70	104.00
182	QA	8	DA	O3'-P-O5'	-7.53	89.70	104.00
192	RC	9	DA	O3'-P-O5'	-7.53	89.70	104.00
223	V5	31	DA	O3'-P-O5'	-7.53	89.70	104.00
11	AB	2909	DA	O3'-P-O5'	-7.52	89.70	104.00
11	AB	4831	DA	O3'-P-O5'	-7.52	89.70	104.00
11	AB	5891	DA	O3'-P-O5'	-7.52	89.70	104.00
11	AB	6446	DA	O3'-P-O5'	-7.52	89.70	104.00
67	FA	2	DA	O3'-P-O5'	-7.52	89.70	104.00
83	H3	10	DA	O3'-P-O5'	-7.52	89.70	104.00
93	I2	23	DA	O3'-P-O5'	-7.52	89.70	104.00
134	LC	9	DA	O3'-P-O5'	-7.52	89.70	104.00
145	MD	52	DA	O3'-P-O5'	-7.52	89.70	104.00
206	T7	33	DA	O3'-P-O5'	-7.52	89.70	104.00
11	AB	139	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	1058	DA	O3'-P-O5'	-7.52	89.70	104.00
11	AB	2477	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	3417	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	4965	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	5057	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	5948	DA	O3'-P-O5'	-7.52	89.71	104.00
29	C5	9	DA	O3'-P-O5'	-7.52	89.71	104.00
32	C8	3	DA	O3'-P-O5'	-7.52	89.71	104.00
108	J7	10	DA	O3'-P-O5'	-7.52	89.71	104.00
125	L1	9	DA	O3'-P-O5'	-7.52	89.71	104.00
126	L2	59	DA	O3'-P-O5'	-7.52	89.71	104.00
156	O2	44	DA	O3'-P-O5'	-7.52	89.71	104.00
188	R7	1	DA	O3'-P-O5'	-7.52	89.71	104.00
214	U5	29	DA	O3'-P-O5'	-7.52	89.71	104.00
226	V9	14	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	1901	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	2167	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	2555	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	2732	DA	O3'-P-O5'	-7.52	89.71	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	CC	21	DA	O3'-P-O5'	-7.52	89.71	104.00
46	DC	7	DA	O3'-P-O5'	-7.52	89.71	104.00
69	FD	1	DA	O3'-P-O5'	-7.52	89.71	104.00
85	H6	4	DA	O3'-P-O5'	-7.52	89.71	104.00
128	L5	15	DA	O3'-P-O5'	-7.52	89.71	104.00
223	V5	8	DA	O3'-P-O5'	-7.52	89.71	104.00
9	A9	7	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	89	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	2389	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	2653	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	2725	DA	O3'-P-O5'	-7.52	89.72	104.00
11	AB	3627	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	3728	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	7144	DA	O3'-P-O5'	-7.52	89.71	104.00
12	AC	21	DA	O3'-P-O5'	-7.52	89.71	104.00
22	B9	10	DA	O3'-P-O5'	-7.52	89.71	104.00
34	CA	12	DA	O3'-P-O5'	-7.52	89.71	104.00
95	I5	21	DA	O3'-P-O5'	-7.52	89.71	104.00
108	J7	6	DA	O3'-P-O5'	-7.52	89.71	104.00
119	K7	31	DA	O3'-P-O5'	-7.52	89.71	104.00
122	KA	26	DA	O3'-P-O5'	-7.52	89.71	104.00
187	R5	36	DA	O3'-P-O5'	-7.52	89.71	104.00
203	T2	25	DA	O3'-P-O5'	-7.52	89.71	104.00
11	AB	69	DA	O3'-P-O5'	-7.52	89.72	104.00
11	AB	3865	DA	O3'-P-O5'	-7.52	89.72	104.00
11	AB	4070	DA	O3'-P-O5'	-7.52	89.72	104.00
11	AB	5836	DA	O3'-P-O5'	-7.52	89.72	104.00
11	AB	6932	DA	O3'-P-O5'	-7.52	89.72	104.00
11	AB	7128	DA	O3'-P-O5'	-7.52	89.72	104.00
15	B2	15	DA	O3'-P-O5'	-7.52	89.72	104.00
53	E7	19	DA	O3'-P-O5'	-7.52	89.72	104.00
58	ED	6	DA	O3'-P-O5'	-7.52	89.72	104.00
85	H6	6	DA	O3'-P-O5'	-7.52	89.72	104.00
114	K1	15	DA	O3'-P-O5'	-7.52	89.72	104.00
124	KD	18	DA	O3'-P-O5'	-7.52	89.72	104.00
137	M3	4	DA	O3'-P-O5'	-7.52	89.72	104.00
142	M9	20	DA	O3'-P-O5'	-7.52	89.72	104.00
182	QA	13	DA	O3'-P-O5'	-7.52	89.72	104.00
187	R5	22	DA	O3'-P-O5'	-7.52	89.72	104.00
188	R7	6	DA	O3'-P-O5'	-7.52	89.72	104.00
189	R8	39	DA	O3'-P-O5'	-7.52	89.72	104.00
206	T7	22	DA	O3'-P-O5'	-7.52	89.72	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
212	U2	12	DA	O3'-P-O5'	-7.52	89.72	104.00
11	AB	2949	DA	O3'-P-O5'	-7.52	89.72	104.00
11	AB	4653	DA	O3'-P-O5'	-7.52	89.72	104.00
11	AB	5251	DA	O3'-P-O5'	-7.52	89.72	104.00
13	AD	31	DA	O3'-P-O5'	-7.52	89.72	104.00
43	D8	36	DA	O3'-P-O5'	-7.52	89.72	104.00
56	EA	9	DA	O3'-P-O5'	-7.52	89.72	104.00
74	G6	8	DA	O3'-P-O5'	-7.52	89.72	104.00
80	GD	18	DA	O3'-P-O5'	-7.52	89.72	104.00
122	KA	10	DA	O3'-P-O5'	-7.52	89.72	104.00
218	UA	12	DA	O3'-P-O5'	-7.52	89.72	104.00
230	W3	47	DA	O3'-P-O5'	-7.52	89.72	104.00
8	A8	9	DA	O3'-P-O5'	-7.51	89.72	104.00
11	AB	2400	DA	O3'-P-O5'	-7.51	89.72	104.00
11	AB	3656	DA	O3'-P-O5'	-7.51	89.72	104.00
11	AB	4310	DA	O3'-P-O5'	-7.51	89.72	104.00
11	AB	4709	DA	O3'-P-O5'	-7.51	89.72	104.00
11	AB	5839	DA	O3'-P-O5'	-7.51	89.72	104.00
11	AB	7153	DA	O3'-P-O5'	-7.51	89.72	104.00
43	D8	7	DA	O3'-P-O5'	-7.51	89.72	104.00
62	F5	2	DA	O3'-P-O5'	-7.51	89.72	104.00
102	ID	3	DA	O3'-P-O5'	-7.51	89.72	104.00
114	K1	30	DA	O3'-P-O5'	-7.51	89.72	104.00
231	W5	22	DA	O3'-P-O5'	-7.51	89.72	104.00
11	AB	85	DA	O3'-P-O5'	-7.51	89.72	104.00
11	AB	790	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	6457	DA	O3'-P-O5'	-7.51	89.72	104.00
22	B9	27	DA	O3'-P-O5'	-7.51	89.73	104.00
24	BC	26	DA	O3'-P-O5'	-7.51	89.73	104.00
113	JD	37	DA	O3'-P-O5'	-7.51	89.72	104.00
126	L2	50	DA	O3'-P-O5'	-7.51	89.73	104.00
161	O8	52	DA	O3'-P-O5'	-7.51	89.73	104.00
170	P7	16	DA	O3'-P-O5'	-7.51	89.72	104.00
206	T7	37	DA	O3'-P-O5'	-7.51	89.73	104.00
1	A1	3	DA	O3'-P-O5'	-7.51	89.73	104.00
8	A8	6	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	580	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	1432	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	1881	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	3413	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	4201	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	4507	DA	O3'-P-O5'	-7.51	89.73	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4557	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	5433	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	5473	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	6633	DA	O3'-P-O5'	-7.51	89.73	104.00
38	D2	10	DA	O3'-P-O5'	-7.51	89.73	104.00
43	D8	4	DA	O3'-P-O5'	-7.51	89.73	104.00
90	HC	26	DA	O3'-P-O5'	-7.51	89.73	104.00
100	IA	5	DA	O3'-P-O5'	-7.51	89.73	104.00
102	ID	20	DA	O3'-P-O5'	-7.51	89.73	104.00
108	J7	54	DA	O3'-P-O5'	-7.51	89.73	104.00
130	L7	5	DA	O3'-P-O5'	-7.51	89.73	104.00
153	NA	20	DA	O3'-P-O5'	-7.51	89.73	104.00
198	S8	23	DA	O3'-P-O5'	-7.51	89.73	104.00
206	T7	49	DA	O3'-P-O5'	-7.51	89.73	104.00
207	T8	13	DA	O3'-P-O5'	-7.51	89.73	104.00
230	W3	18	DA	O3'-P-O5'	-7.51	89.73	104.00
3	A3	19	DA	O3'-P-O5'	-7.51	89.73	104.00
6	A6	22	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	1414	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	1417	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	1638	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	2712	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	3809	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	6153	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	6754	DA	O3'-P-O5'	-7.51	89.73	104.00
29	C5	31	DA	O3'-P-O5'	-7.51	89.73	104.00
40	D5	17	DA	O3'-P-O5'	-7.51	89.73	104.00
69	FD	30	DA	O3'-P-O5'	-7.51	89.73	104.00
73	G5	6	DA	O3'-P-O5'	-7.51	89.73	104.00
73	G5	21	DA	O3'-P-O5'	-7.51	89.73	104.00
95	I5	41	DA	O3'-P-O5'	-7.51	89.73	104.00
145	MD	23	DA	O3'-P-O5'	-7.51	89.73	104.00
155	ND	2	DA	O3'-P-O5'	-7.51	89.73	104.00
161	O8	8	DA	O3'-P-O5'	-7.51	89.73	104.00
161	O8	56	DA	O3'-P-O5'	-7.51	89.73	104.00
164	OC	25	DA	O3'-P-O5'	-7.51	89.73	104.00
213	U3	9	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	304	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	326	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	907	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	2217	DA	O3'-P-O5'	-7.51	89.73	104.00
11	AB	5256	DA	O3'-P-O5'	-7.51	89.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	B2	19	DA	O3'-P-O5'	-7.51	89.73	104.00
18	B5	10	DA	O3'-P-O5'	-7.51	89.73	104.00
22	B9	46	DA	O3'-P-O5'	-7.51	89.73	104.00
44	D9	22	DA	O3'-P-O5'	-7.51	89.73	104.00
61	F3	8	DA	O3'-P-O5'	-7.51	89.73	104.00
126	L2	44	DA	O3'-P-O5'	-7.51	89.73	104.00
194	S2	17	DA	O3'-P-O5'	-7.51	89.73	104.00
206	T7	6	DA	O3'-P-O5'	-7.51	89.73	104.00
225	V8	19	DA	O3'-P-O5'	-7.51	89.74	104.00
225	V8	23	DA	O3'-P-O5'	-7.51	89.73	104.00
6	A6	8	DA	O3'-P-O5'	-7.51	89.74	104.00
11	AB	922	DA	O3'-P-O5'	-7.51	89.74	104.00
11	AB	988	DA	O3'-P-O5'	-7.51	89.74	104.00
11	AB	2568	DA	O3'-P-O5'	-7.51	89.74	104.00
11	AB	3218	DA	O3'-P-O5'	-7.51	89.74	104.00
11	AB	3632	DA	O3'-P-O5'	-7.51	89.74	104.00
11	AB	6297	DA	O3'-P-O5'	-7.51	89.74	104.00
11	AB	6922	DA	O3'-P-O5'	-7.51	89.74	104.00
24	BC	14	DA	O3'-P-O5'	-7.51	89.74	104.00
30	C6	2	DA	O3'-P-O5'	-7.51	89.74	104.00
37	D1	16	DA	O3'-P-O5'	-7.51	89.74	104.00
40	D5	23	DA	O3'-P-O5'	-7.51	89.74	104.00
41	D6	8	DA	O3'-P-O5'	-7.51	89.74	104.00
47	DD	37	DA	O3'-P-O5'	-7.51	89.74	104.00
58	ED	20	DA	O3'-P-O5'	-7.51	89.74	104.00
71	G2	21	DA	O3'-P-O5'	-7.51	89.74	104.00
102	ID	25	DA	O3'-P-O5'	-7.51	89.74	104.00
125	L1	11	DA	O3'-P-O5'	-7.51	89.74	104.00
152	N9	22	DA	O3'-P-O5'	-7.51	89.74	104.00
190	R9	12	DA	O3'-P-O5'	-7.51	89.74	104.00
199	S9	19	DA	O3'-P-O5'	-7.51	89.74	104.00
217	U9	6	DA	O3'-P-O5'	-7.51	89.74	104.00
238	X9	48	DA	O3'-P-O5'	-7.51	89.74	104.00
11	AB	759	DA	O3'-P-O5'	-7.50	89.74	104.00
11	AB	1187	DA	O3'-P-O5'	-7.50	89.74	104.00
11	AB	3754	DA	O3'-P-O5'	-7.50	89.74	104.00
11	AB	5505	DA	O3'-P-O5'	-7.50	89.74	104.00
11	AB	5547	DA	O3'-P-O5'	-7.50	89.74	104.00
30	C6	6	DA	O3'-P-O5'	-7.50	89.74	104.00
52	E6	29	DA	O3'-P-O5'	-7.50	89.74	104.00
100	IA	22	DA	O3'-P-O5'	-7.50	89.74	104.00
109	J8	52	DA	O3'-P-O5'	-7.50	89.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	L5	22	DA	O3'-P-O5'	-7.50	89.74	104.00
169	P6	17	DA	O3'-P-O5'	-7.50	89.74	104.00
187	R5	17	DA	O3'-P-O5'	-7.50	89.74	104.00
209	TA	26	DA	O3'-P-O5'	-7.50	89.74	104.00
9	A9	9	DA	O3'-P-O5'	-7.50	89.75	104.00
9	A9	17	DA	O3'-P-O5'	-7.50	89.74	104.00
11	AB	475	DA	O3'-P-O5'	-7.50	89.74	104.00
11	AB	3407	DA	O3'-P-O5'	-7.50	89.74	104.00
11	AB	4624	DA	O3'-P-O5'	-7.50	89.74	104.00
11	AB	4783	DA	O3'-P-O5'	-7.50	89.74	104.00
11	AB	5247	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	7135	DA	O3'-P-O5'	-7.50	89.74	104.00
19	B6	16	DA	O3'-P-O5'	-7.50	89.75	104.00
82	H2	35	DA	O3'-P-O5'	-7.50	89.74	104.00
159	O6	19	DA	O3'-P-O5'	-7.50	89.74	104.00
187	R5	3	DA	O3'-P-O5'	-7.50	89.74	104.00
192	RC	6	DA	O3'-P-O5'	-7.50	89.74	104.00
211	TD	12	DA	O3'-P-O5'	-7.50	89.74	104.00
1	A1	14	DA	O3'-P-O5'	-7.50	89.75	104.00
8	A8	15	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	1862	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	1908	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	3068	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	3392	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	4844	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	5481	DA	O3'-P-O5'	-7.50	89.75	104.00
22	B9	52	DA	O3'-P-O5'	-7.50	89.75	104.00
30	C6	30	DA	O3'-P-O5'	-7.50	89.75	104.00
31	C7	22	DA	O3'-P-O5'	-7.50	89.75	104.00
63	F6	16	DA	O3'-P-O5'	-7.50	89.75	104.00
85	H6	30	DA	O3'-P-O5'	-7.50	89.75	104.00
102	ID	22	DA	O3'-P-O5'	-7.50	89.75	104.00
119	K7	2	DA	O3'-P-O5'	-7.50	89.75	104.00
152	N9	37	DA	O3'-P-O5'	-7.50	89.75	104.00
155	ND	6	DA	O3'-P-O5'	-7.50	89.75	104.00
157	O3	11	DA	O3'-P-O5'	-7.50	89.75	104.00
187	R5	26	DA	O3'-P-O5'	-7.50	89.75	104.00
194	S2	13	DA	O3'-P-O5'	-7.50	89.75	104.00
202	SD	9	DA	O3'-P-O5'	-7.50	89.75	104.00
206	T7	35	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	4776	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	5496	DA	O3'-P-O5'	-7.50	89.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6041	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	6049	DA	O3'-P-O5'	-7.50	89.75	104.00
24	BC	21	DA	O3'-P-O5'	-7.50	89.75	104.00
49	E2	33	DA	O3'-P-O5'	-7.50	89.75	104.00
52	E6	27	DA	O3'-P-O5'	-7.50	89.75	104.00
107	J6	39	DA	O3'-P-O5'	-7.50	89.75	104.00
146	N2	13	DA	O3'-P-O5'	-7.50	89.75	104.00
160	O7	7	DA	O3'-P-O5'	-7.50	89.75	104.00
194	S2	24	DA	O3'-P-O5'	-7.50	89.75	104.00
233	W8	12	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	2780	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	4958	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	5748	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	6356	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	6692	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	7024	DA	O3'-P-O5'	-7.50	89.75	104.00
22	B9	12	DA	O3'-P-O5'	-7.50	89.75	104.00
34	CA	10	DA	O3'-P-O5'	-7.50	89.75	104.00
64	F7	23	DA	O3'-P-O5'	-7.50	89.75	104.00
66	F9	6	DA	O3'-P-O5'	-7.50	89.75	104.00
83	H3	29	DA	O3'-P-O5'	-7.50	89.75	104.00
84	H5	13	DA	O3'-P-O5'	-7.50	89.75	104.00
211	TD	20	DA	O3'-P-O5'	-7.50	89.75	104.00
11	AB	5551	DA	O3'-P-O5'	-7.50	89.76	104.00
11	AB	6629	DA	O3'-P-O5'	-7.50	89.76	104.00
47	DD	40	DA	O3'-P-O5'	-7.50	89.76	104.00
61	F3	12	DA	O3'-P-O5'	-7.50	89.75	104.00
82	H2	53	DA	O3'-P-O5'	-7.50	89.76	104.00
104	J2	2	DA	O3'-P-O5'	-7.50	89.76	104.00
189	R8	30	DA	O3'-P-O5'	-7.50	89.75	104.00
217	U9	10	DA	O3'-P-O5'	-7.50	89.76	104.00
11	AB	284	DA	O3'-P-O5'	-7.50	89.76	104.00
11	AB	703	DA	O3'-P-O5'	-7.50	89.76	104.00
11	AB	2143	DA	O3'-P-O5'	-7.50	89.76	104.00
85	H6	15	DA	O3'-P-O5'	-7.50	89.76	104.00
206	T7	8	DA	O3'-P-O5'	-7.50	89.76	104.00
234	W9	6	DA	O3'-P-O5'	-7.50	89.76	104.00
10	AA	22	DA	O3'-P-O5'	-7.49	89.76	104.00
11	AB	4019	DA	O3'-P-O5'	-7.49	89.76	104.00
11	AB	4700	DA	O3'-P-O5'	-7.49	89.76	104.00
11	AB	6824	DA	O3'-P-O5'	-7.49	89.76	104.00
22	B9	23	DA	O3'-P-O5'	-7.49	89.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
60	F2	21	DA	O3'-P-O5'	-7.49	89.76	104.00
94	I3	44	DA	O3'-P-O5'	-7.49	89.76	104.00
113	JD	2	DA	O3'-P-O5'	-7.49	89.76	104.00
169	P6	15	DA	O3'-P-O5'	-7.49	89.76	104.00
11	AB	3086	DA	O3'-P-O5'	-7.49	89.76	104.00
75	G7	23	DA	O3'-P-O5'	-7.49	89.77	104.00
116	K3	9	DA	O3'-P-O5'	-7.49	89.76	104.00
139	M6	3	DA	O3'-P-O5'	-7.49	89.76	104.00
196	S5	11	DA	O3'-P-O5'	-7.49	89.77	104.00
11	AB	3583	DA	O3'-P-O5'	-7.49	89.77	104.00
36	CD	13	DA	O3'-P-O5'	-7.49	89.77	104.00
123	KC	17	DA	O3'-P-O5'	-7.49	89.77	104.00
140	M7	15	DA	O3'-P-O5'	-7.49	89.77	104.00
166	P2	27	DA	O3'-P-O5'	-7.49	89.77	104.00
11	AB	892	DA	O3'-P-O5'	-7.49	89.77	104.00
11	AB	3552	DA	O3'-P-O5'	-7.49	89.77	104.00
11	AB	4636	DA	O3'-P-O5'	-7.49	89.77	104.00
20	B7	12	DA	O3'-P-O5'	-7.49	89.77	104.00
98	I8	36	DA	O3'-P-O5'	-7.49	89.77	104.00
181	Q9	19	DA	O3'-P-O5'	-7.49	89.77	104.00
209	TA	32	DA	O3'-P-O5'	-7.49	89.77	104.00
219	UC	17	DA	O3'-P-O5'	-7.49	89.77	104.00
11	AB	3805	DA	O3'-P-O5'	-7.49	89.77	104.00
67	FA	17	DA	O3'-P-O5'	-7.49	89.77	104.00
102	ID	29	DA	O3'-P-O5'	-7.49	89.78	104.00
132	L9	10	DA	O3'-P-O5'	-7.49	89.78	104.00
11	AB	3635	DA	O3'-P-O5'	-7.48	89.78	104.00
11	AB	6023	DA	O3'-P-O5'	-7.48	89.79	104.00
82	H2	42	DA	O3'-P-O5'	-7.48	89.79	104.00
130	L7	33	DA	O3'-P-O5'	-7.48	89.79	104.00
11	AB	372	DT	O3'-P-O5'	-7.47	89.80	104.00
11	AB	5762	DA	O3'-P-O5'	-7.47	89.81	104.00
11	AB	1130	DT	O3'-P-O5'	-7.46	89.82	104.00
11	AB	5640	DT	O3'-P-O5'	-7.46	89.82	104.00
143	MA	8	DT	O3'-P-O5'	-7.46	89.82	104.00
11	AB	6812	DT	O3'-P-O5'	-7.46	89.83	104.00
24	BC	33	DT	O3'-P-O5'	-7.46	89.83	104.00
183	QC	9	DT	O3'-P-O5'	-7.46	89.84	104.00
11	AB	1136	DT	O3'-P-O5'	-7.45	89.84	104.00
11	AB	4240	DT	O3'-P-O5'	-7.45	89.84	104.00
11	AB	3687	DT	O3'-P-O5'	-7.45	89.84	104.00
13	AD	42	DT	O3'-P-O5'	-7.45	89.84	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2985	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	3660	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	7189	DT	O3'-P-O5'	-7.45	89.85	104.00
72	G3	27	DT	O3'-P-O5'	-7.45	89.85	104.00
93	I2	44	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	832	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	1151	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	6071	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	6567	DT	O3'-P-O5'	-7.45	89.85	104.00
83	H3	4	DT	O3'-P-O5'	-7.45	89.85	104.00
125	L1	1	DT	O3'-P-O5'	-7.45	89.85	104.00
152	N9	28	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	1823	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	2192	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	2825	DT	O3'-P-O5'	-7.45	89.86	104.00
11	AB	3459	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	4662	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	6303	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	7071	DT	O3'-P-O5'	-7.45	89.85	104.00
11	AB	419	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	1094	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	956	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	1961	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	2488	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	4095	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	4427	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	5008	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	6122	DT	O3'-P-O5'	-7.44	89.86	104.00
29	C5	2	DT	O3'-P-O5'	-7.44	89.86	104.00
70	G1	4	DT	O3'-P-O5'	-7.44	89.86	104.00
130	L7	54	DT	O3'-P-O5'	-7.44	89.86	104.00
144	MC	11	DT	O3'-P-O5'	-7.44	89.86	104.00
152	N9	1	DT	O3'-P-O5'	-7.44	89.86	104.00
188	R7	12	DT	O3'-P-O5'	-7.44	89.86	104.00
215	U7	13	DT	O3'-P-O5'	-7.44	89.86	104.00
4	A4	22	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	264	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	650	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	1684	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	2105	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	3180	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	3288	DT	O3'-P-O5'	-7.44	89.86	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4279	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	4519	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	4849	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	5381	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	6399	DT	O3'-P-O5'	-7.44	89.86	104.00
57	EC	13	DT	O3'-P-O5'	-7.44	89.86	104.00
72	G3	3	DT	O3'-P-O5'	-7.44	89.86	104.00
78	GA	11	DT	O3'-P-O5'	-7.44	89.86	104.00
90	HC	6	DT	O3'-P-O5'	-7.44	89.86	104.00
129	L6	22	DT	O3'-P-O5'	-7.44	89.86	104.00
218	UA	17	DT	O3'-P-O5'	-7.44	89.86	104.00
5	A5	2	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	734	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	3465	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	3519	DT	O3'-P-O5'	-7.44	89.86	104.00
11	AB	3675	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	5064	DT	O3'-P-O5'	-7.44	89.87	104.00
64	F7	13	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	926	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	1025	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	1540	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	1970	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	2678	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	3129	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	3162	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	4282	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	4468	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	5874	DT	O3'-P-O5'	-7.44	89.87	104.00
61	F3	5	DT	O3'-P-O5'	-7.44	89.87	104.00
125	L1	47	DT	O3'-P-O5'	-7.44	89.87	104.00
213	U3	15	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	3690	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	5240	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	5586	DT	O3'-P-O5'	-7.44	89.87	104.00
11	AB	7039	DT	O3'-P-O5'	-7.44	89.87	104.00
84	H5	8	DT	O3'-P-O5'	-7.44	89.87	104.00
154	NC	3	DT	O3'-P-O5'	-7.44	89.87	104.00
204	T3	16	DT	O3'-P-O5'	-7.44	89.87	104.00
227	VA	10	DT	O3'-P-O5'	-7.44	89.87	104.00
231	W5	12	DT	O3'-P-O5'	-7.44	89.87	104.00
7	A7	13	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	806	DT	O3'-P-O5'	-7.43	89.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1160	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	1696	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	1988	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	2817	DT	O3'-P-O5'	-7.43	89.87	104.00
11	AB	3846	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	4008	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	5015	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	5227	DT	O3'-P-O5'	-7.43	89.87	104.00
11	AB	5801	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	6003	DT	O3'-P-O5'	-7.43	89.88	104.00
55	E9	44	DT	O3'-P-O5'	-7.43	89.88	104.00
79	GC	20	DT	O3'-P-O5'	-7.43	89.88	104.00
105	J3	8	DT	O3'-P-O5'	-7.43	89.87	104.00
114	K1	43	DT	O3'-P-O5'	-7.43	89.87	104.00
151	N8	18	DT	O3'-P-O5'	-7.43	89.87	104.00
152	N9	42	DT	O3'-P-O5'	-7.43	89.88	104.00
166	P2	5	DT	O3'-P-O5'	-7.43	89.87	104.00
226	V9	27	DT	O3'-P-O5'	-7.43	89.88	104.00
233	W8	20	DT	O3'-P-O5'	-7.43	89.88	104.00
7	A7	10	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	410	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	665	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	680	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	1314	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	1405	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	1558	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	1844	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	2094	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	3765	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	3992	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	4549	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	4995	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	5023	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	5463	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	6872	DT	O3'-P-O5'	-7.43	89.88	104.00
67	FA	30	DT	O3'-P-O5'	-7.43	89.88	104.00
99	I9	13	DT	O3'-P-O5'	-7.43	89.88	104.00
192	RC	32	DT	O3'-P-O5'	-7.43	89.88	104.00
217	U9	27	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	215	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	3702	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	5398	DT	O3'-P-O5'	-7.43	89.88	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
133	LA	5	DT	O3'-P-O5'	-7.43	89.88	104.00
135	LD	5	DT	O3'-P-O5'	-7.43	89.88	104.00
214	U5	20	DT	O3'-P-O5'	-7.43	89.88	104.00
8	A8	23	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	389	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	425	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	1091	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	1142	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	1316	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	1500	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	2021	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	2066	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	2336	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	2867	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	3150	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	3648	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	4724	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	4924	DT	O3'-P-O5'	-7.43	89.88	104.00
11	AB	5080	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	5813	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	6129	DT	O3'-P-O5'	-7.43	89.88	104.00
41	D6	17	DT	O3'-P-O5'	-7.43	89.88	104.00
57	EC	20	DT	O3'-P-O5'	-7.43	89.88	104.00
77	G9	16	DT	O3'-P-O5'	-7.43	89.88	104.00
88	H9	9	DT	O3'-P-O5'	-7.43	89.88	104.00
104	J2	20	DT	O3'-P-O5'	-7.43	89.88	104.00
180	Q8	23	DT	O3'-P-O5'	-7.43	89.88	104.00
198	S8	7	DT	O3'-P-O5'	-7.43	89.89	104.00
198	S8	26	DT	O3'-P-O5'	-7.43	89.88	104.00
230	W3	8	DT	O3'-P-O5'	-7.43	89.88	104.00
5	A5	40	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	360	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	398	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	827	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	962	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	1394	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	2333	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	3174	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	3696	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	4534	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	4621	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	5004	DT	O3'-P-O5'	-7.43	89.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7082	DT	O3'-P-O5'	-7.43	89.89	104.00
36	CD	18	DT	O3'-P-O5'	-7.43	89.89	104.00
106	J5	11	DT	O3'-P-O5'	-7.43	89.89	104.00
117	K5	38	DT	O3'-P-O5'	-7.43	89.89	104.00
143	MA	33	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	413	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	434	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	2177	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	2195	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	3012	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	3486	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	3516	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	3843	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	4682	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	5092	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	6504	DT	O3'-P-O5'	-7.43	89.89	104.00
76	G8	2	DT	O3'-P-O5'	-7.43	89.89	104.00
122	KA	4	DT	O3'-P-O5'	-7.43	89.89	104.00
11	AB	730	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	1067	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	1570	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	1854	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	2121	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	2408	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	4093	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	4680	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	4857	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	5287	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	5298	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	5582	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	5727	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	5797	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	6317	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	6745	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	6749	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	7049	DT	O3'-P-O5'	-7.42	89.89	104.00
55	E9	10	DT	O3'-P-O5'	-7.42	89.89	104.00
98	I8	43	DT	O3'-P-O5'	-7.42	89.89	104.00
111	JA	11	DT	O3'-P-O5'	-7.42	89.89	104.00
115	K2	26	DT	O3'-P-O5'	-7.42	89.89	104.00
119	K7	34	DT	O3'-P-O5'	-7.42	89.89	104.00
123	KC	15	DT	O3'-P-O5'	-7.42	89.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
124	KD	5	DT	O3'-P-O5'	-7.42	89.89	104.00
172	P9	18	DT	O3'-P-O5'	-7.42	89.89	104.00
215	U7	22	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	404	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	2212	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	2973	DT	O3'-P-O5'	-7.42	89.89	104.00
11	AB	3132	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	3951	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	4126	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	4465	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	5151	DT	O3'-P-O5'	-7.42	89.90	104.00
45	DA	10	DT	O3'-P-O5'	-7.42	89.90	104.00
152	N9	11	DT	O3'-P-O5'	-7.42	89.89	104.00
154	NC	20	DT	O3'-P-O5'	-7.42	89.90	104.00
173	PA	17	DT	O3'-P-O5'	-7.42	89.90	104.00
187	R5	13	DT	O3'-P-O5'	-7.42	89.90	104.00
207	T8	18	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	1015	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	3768	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	5069	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	5233	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	5577	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	5805	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	6664	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	6794	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	6809	DT	O3'-P-O5'	-7.42	89.90	104.00
32	C8	14	DT	O3'-P-O5'	-7.42	89.90	104.00
42	D7	6	DT	O3'-P-O5'	-7.42	89.90	104.00
55	E9	28	DT	O3'-P-O5'	-7.42	89.90	104.00
103	J1	12	DT	O3'-P-O5'	-7.42	89.90	104.00
115	K2	14	DT	O3'-P-O5'	-7.42	89.90	104.00
121	K9	19	DT	O3'-P-O5'	-7.42	89.90	104.00
149	N6	1	DT	O3'-P-O5'	-7.42	89.90	104.00
174	PC	22	DT	O3'-P-O5'	-7.42	89.90	104.00
204	T3	19	DT	O3'-P-O5'	-7.42	89.90	104.00
230	W3	12	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	383	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	1310	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	3447	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	4794	DT	O3'-P-O5'	-7.42	89.90	104.00
41	D6	34	DT	O3'-P-O5'	-7.42	89.90	104.00
154	NC	33	DT	O3'-P-O5'	-7.42	89.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1049	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	1676	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	1802	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	1966	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	2090	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	2354	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	2798	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	3021	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	3033	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	3441	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	3477	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	3501	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	3513	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	3603	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	4270	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	4885	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	5303	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	5817	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	6176	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	6254	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	6490	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	6564	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	6892	DT	O3'-P-O5'	-7.42	89.90	104.00
11	AB	7179	DT	O3'-P-O5'	-7.42	89.90	104.00
17	B4	21	DT	O3'-P-O5'	-7.42	89.91	104.00
29	C5	41	DT	O3'-P-O5'	-7.42	89.90	104.00
44	D9	6	DT	O3'-P-O5'	-7.42	89.90	104.00
51	E5	22	DT	O3'-P-O5'	-7.42	89.90	104.00
57	EC	8	DT	O3'-P-O5'	-7.42	89.91	104.00
77	G9	7	DT	O3'-P-O5'	-7.42	89.90	104.00
109	J8	32	DT	O3'-P-O5'	-7.42	89.90	104.00
117	K5	16	DT	O3'-P-O5'	-7.42	89.91	104.00
145	MD	45	DT	O3'-P-O5'	-7.42	89.90	104.00
160	O7	15	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	212	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	578	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	971	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	977	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	1375	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	2343	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	3773	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	4098	DT	O3'-P-O5'	-7.42	89.91	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4552	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	5387	DT	O3'-P-O5'	-7.42	89.91	104.00
23	BA	35	DT	O3'-P-O5'	-7.42	89.91	104.00
66	F9	18	DT	O3'-P-O5'	-7.42	89.91	104.00
138	M5	15	DT	O3'-P-O5'	-7.42	89.91	104.00
204	T3	34	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	2828	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	3153	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	4113	DT	O3'-P-O5'	-7.42	89.91	104.00
74	G6	28	DT	O3'-P-O5'	-7.42	89.91	104.00
81	H1	5	DT	O3'-P-O5'	-7.42	89.91	104.00
102	ID	7	DT	O3'-P-O5'	-7.42	89.91	104.00
216	U8	23	DT	O3'-P-O5'	-7.42	89.91	104.00
11	AB	607	DT	O3'-P-O5'	-7.41	89.91	104.00
11	AB	851	DT	O3'-P-O5'	-7.41	89.91	104.00
11	AB	1145	DT	O3'-P-O5'	-7.41	89.91	104.00
11	AB	1298	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	1720	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	2000	DT	O3'-P-O5'	-7.41	89.91	104.00
11	AB	2030	DT	O3'-P-O5'	-7.41	89.91	104.00
11	AB	2186	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	2509	DT	O3'-P-O5'	-7.41	89.91	104.00
11	AB	3309	DT	O3'-P-O5'	-7.41	89.91	104.00
11	AB	3444	DT	O3'-P-O5'	-7.41	89.91	104.00
11	AB	5230	DT	O3'-P-O5'	-7.41	89.91	104.00
11	AB	5792	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	6228	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	6674	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	7192	DT	O3'-P-O5'	-7.41	89.91	104.00
22	B9	3	DT	O3'-P-O5'	-7.41	89.91	104.00
53	E7	10	DT	O3'-P-O5'	-7.41	89.91	104.00
133	LA	1	DT	O3'-P-O5'	-7.41	89.91	104.00
238	X9	9	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	206	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	1379	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	3777	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	5467	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	5781	DT	O3'-P-O5'	-7.41	89.92	104.00
19	B6	8	DT	O3'-P-O5'	-7.41	89.92	104.00
119	K7	38	DT	O3'-P-O5'	-7.41	89.92	104.00
126	L2	15	DT	O3'-P-O5'	-7.41	89.92	104.00
190	R9	7	DT	O3'-P-O5'	-7.41	89.92	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A2	22	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	182	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	449	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	854	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	1163	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	1551	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	1850	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	2862	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	2955	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	3605	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	4537	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	4606	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	4627	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	4863	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	6261	DT	O3'-P-O5'	-7.41	89.92	104.00
23	BA	32	DT	O3'-P-O5'	-7.41	89.92	104.00
47	DD	14	DT	O3'-P-O5'	-7.41	89.92	104.00
86	H7	10	DT	O3'-P-O5'	-7.41	89.92	104.00
101	IC	24	DT	O3'-P-O5'	-7.41	89.92	104.00
108	J7	19	DT	O3'-P-O5'	-7.41	89.92	104.00
128	L5	9	DT	O3'-P-O5'	-7.41	89.92	104.00
222	V3	20	DT	O3'-P-O5'	-7.41	89.92	104.00
228	VC	8	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	440	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	1154	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	1705	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	2961	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	3315	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	4294	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	5610	DT	O3'-P-O5'	-7.41	89.92	104.00
11	AB	7198	DT	O3'-P-O5'	-7.41	89.92	104.00
46	DC	15	DT	O3'-P-O5'	-7.41	89.92	104.00
76	G8	17	DT	O3'-P-O5'	-7.41	89.92	104.00
118	K6	8	DT	O3'-P-O5'	-7.41	89.92	104.00
156	O2	25	DT	O3'-P-O5'	-7.41	89.92	104.00
211	TD	22	DT	O3'-P-O5'	-7.41	89.93	104.00
11	AB	935	DT	O3'-P-O5'	-7.41	89.93	104.00
11	AB	3468	DT	O3'-P-O5'	-7.41	89.93	104.00
11	AB	6517	DT	O3'-P-O5'	-7.41	89.93	104.00
11	AB	953	DT	O3'-P-O5'	-7.41	89.93	104.00
11	AB	2805	DT	O3'-P-O5'	-7.41	89.93	104.00
11	AB	2832	DT	O3'-P-O5'	-7.41	89.93	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4275	DT	O3'-P-O5'	-7.41	89.93	104.00
11	AB	4328	DT	O3'-P-O5'	-7.41	89.93	104.00
108	J7	29	DT	O3'-P-O5'	-7.41	89.93	104.00
114	K1	9	DT	O3'-P-O5'	-7.41	89.93	104.00
152	N9	40	DT	O3'-P-O5'	-7.41	89.93	104.00
206	T7	14	DT	O3'-P-O5'	-7.41	89.93	104.00
215	U7	20	DT	O3'-P-O5'	-7.41	89.93	104.00
238	X9	6	DT	O3'-P-O5'	-7.41	89.93	104.00
206	T7	11	DT	O3'-P-O5'	-7.40	89.93	104.00
11	AB	2261	DT	O3'-P-O5'	-7.40	89.93	104.00
11	AB	4949	DT	O3'-P-O5'	-7.40	89.93	104.00
11	AB	6498	DT	O3'-P-O5'	-7.40	89.94	104.00
11	AB	7068	DT	O3'-P-O5'	-7.40	89.94	104.00
11	AB	7230	DT	O3'-P-O5'	-7.40	89.94	104.00
119	K7	20	DT	O3'-P-O5'	-7.40	89.93	104.00
141	M8	20	DT	O3'-P-O5'	-7.40	89.93	104.00
152	N9	46	DT	O3'-P-O5'	-7.40	89.93	104.00
11	AB	1976	DT	O3'-P-O5'	-7.40	89.94	104.00
11	AB	5922	DT	O3'-P-O5'	-7.40	89.94	104.00
11	AB	845	DT	O3'-P-O5'	-7.40	89.94	104.00
11	AB	2417	DT	O3'-P-O5'	-7.40	89.94	104.00
11	AB	4889	DT	O3'-P-O5'	-7.40	89.94	104.00
11	AB	1259	DT	O3'-P-O5'	-7.40	89.94	104.00
11	AB	2202	DT	O3'-P-O5'	-7.40	89.94	104.00
11	AB	3099	DT	O3'-P-O5'	-7.40	89.95	104.00
11	AB	6344	DT	O3'-P-O5'	-7.40	89.94	104.00
188	R7	27	DT	O3'-P-O5'	-7.40	89.94	104.00
222	V3	23	DT	O3'-P-O5'	-7.40	89.94	104.00
11	AB	4742	DT	O3'-P-O5'	-7.40	89.95	104.00
156	O2	9	DT	O3'-P-O5'	-7.40	89.95	104.00
11	AB	869	DT	O3'-P-O5'	-7.39	89.95	104.00
11	AB	7027	DT	O3'-P-O5'	-7.39	89.95	104.00
23	BA	29	DT	O3'-P-O5'	-7.39	89.95	104.00
11	AB	473	DT	O3'-P-O5'	-7.39	89.95	104.00
11	AB	482	DT	O3'-P-O5'	-7.39	89.95	104.00
11	AB	1666	DT	O3'-P-O5'	-7.39	89.95	104.00
11	AB	2017	DT	O3'-P-O5'	-7.39	89.95	104.00
11	AB	3789	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	4356	DT	O3'-P-O5'	-7.39	89.95	104.00
172	P9	27	DT	O3'-P-O5'	-7.39	89.95	104.00
11	AB	320	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	991	DT	O3'-P-O5'	-7.39	89.96	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3038	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	3891	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	4746	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	6420	DT	O3'-P-O5'	-7.39	89.96	104.00
158	O5	52	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	866	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	3398	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	3726	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	3794	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	5322	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	7014	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	2294	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	4364	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	5655	DT	O3'-P-O5'	-7.39	89.96	104.00
56	EA	7	DT	O3'-P-O5'	-7.39	89.96	104.00
160	O7	25	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	872	DT	O3'-P-O5'	-7.39	89.97	104.00
11	AB	1874	DT	O3'-P-O5'	-7.39	89.97	104.00
11	AB	3965	DT	O3'-P-O5'	-7.39	89.97	104.00
11	AB	4788	DT	O3'-P-O5'	-7.39	89.96	104.00
11	AB	5680	DT	O3'-P-O5'	-7.39	89.97	104.00
32	C8	52	DT	O3'-P-O5'	-7.39	89.97	104.00
226	V9	3	DT	O3'-P-O5'	-7.39	89.97	104.00
11	AB	313	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	539	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	896	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	2061	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	2627	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	3752	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	6968	DT	O3'-P-O5'	-7.38	89.97	104.00
97	I7	13	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	713	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	2300	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	3915	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	5492	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	6327	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	6830	DT	O3'-P-O5'	-7.38	89.97	104.00
16	B3	15	DT	O3'-P-O5'	-7.38	89.97	104.00
91	HD	14	DT	O3'-P-O5'	-7.38	89.97	104.00
96	I6	9	DT	O3'-P-O5'	-7.38	89.97	104.00
151	N8	14	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	788	DT	O3'-P-O5'	-7.38	89.97	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2034	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	2156	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	2621	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	3363	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	4067	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	4570	DT	O3'-P-O5'	-7.38	89.97	104.00
27	C2	8	DT	O3'-P-O5'	-7.38	89.98	104.00
118	K6	17	DT	O3'-P-O5'	-7.38	89.97	104.00
201	SC	4	DT	O3'-P-O5'	-7.38	89.97	104.00
219	UC	7	DT	O3'-P-O5'	-7.38	89.97	104.00
11	AB	890	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	2378	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	3375	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	3681	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	3821	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	4334	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	5502	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	7159	DT	O3'-P-O5'	-7.38	89.98	104.00
101	IC	12	DT	O3'-P-O5'	-7.38	89.98	104.00
122	KA	43	DT	O3'-P-O5'	-7.38	89.98	104.00
184	QD	13	DT	O3'-P-O5'	-7.38	89.98	104.00
218	UA	4	DT	O3'-P-O5'	-7.38	89.98	104.00
232	W7	11	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	1274	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	1749	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	2543	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	2899	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	3114	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	3246	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	3276	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	3423	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	5487	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	5733	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	5898	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	6018	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	6539	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	6856	DT	O3'-P-O5'	-7.38	89.98	104.00
90	HC	20	DT	O3'-P-O5'	-7.38	89.98	104.00
236	X5	8	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	63	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	1180	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	1642	DT	O3'-P-O5'	-7.38	89.99	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2892	DT	O3'-P-O5'	-7.38	89.99	104.00
11	AB	3599	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	3924	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	4744	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	4752	DT	O3'-P-O5'	-7.38	89.99	104.00
11	AB	6836	DT	O3'-P-O5'	-7.38	89.98	104.00
22	B9	40	DT	O3'-P-O5'	-7.38	89.98	104.00
74	G6	32	DT	O3'-P-O5'	-7.38	89.98	104.00
102	ID	16	DT	O3'-P-O5'	-7.38	89.99	104.00
108	J7	4	DT	O3'-P-O5'	-7.38	89.98	104.00
136	M2	5	DT	O3'-P-O5'	-7.38	89.98	104.00
140	M7	21	DT	O3'-P-O5'	-7.38	89.98	104.00
11	AB	545	DT	O3'-P-O5'	-7.38	89.99	104.00
11	AB	1479	DT	O3'-P-O5'	-7.38	89.99	104.00
11	AB	2537	DT	O3'-P-O5'	-7.38	89.99	104.00
11	AB	5275	DT	O3'-P-O5'	-7.38	89.99	104.00
11	AB	6619	DT	O3'-P-O5'	-7.38	89.99	104.00
30	C6	15	DT	O3'-P-O5'	-7.38	89.99	104.00
35	CC	29	DT	O3'-P-O5'	-7.38	89.99	104.00
49	E2	31	DT	O3'-P-O5'	-7.38	89.99	104.00
175	PD	7	DT	O3'-P-O5'	-7.38	89.99	104.00
207	T8	8	DT	O3'-P-O5'	-7.38	89.99	104.00
223	V5	12	DT	O3'-P-O5'	-7.38	89.99	104.00
11	AB	1115	DT	O3'-P-O5'	-7.37	89.99	104.00
11	AB	1199	DT	O3'-P-O5'	-7.37	89.99	104.00
11	AB	5272	DT	O3'-P-O5'	-7.37	89.99	104.00
11	AB	6207	DT	O3'-P-O5'	-7.37	89.99	104.00
31	C7	29	DT	O3'-P-O5'	-7.37	89.99	104.00
65	F8	2	DT	O3'-P-O5'	-7.37	89.99	104.00
85	H6	20	DT	O3'-P-O5'	-7.37	89.99	104.00
121	K9	26	DT	O3'-P-O5'	-7.37	89.99	104.00
141	M8	14	DT	O3'-P-O5'	-7.37	89.99	104.00
172	P9	14	DT	O3'-P-O5'	-7.37	89.99	104.00
180	Q8	9	DT	O3'-P-O5'	-7.37	89.99	104.00
219	UC	12	DT	O3'-P-O5'	-7.37	89.99	104.00
11	AB	779	DT	O3'-P-O5'	-7.37	89.99	104.00
11	AB	1754	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	2278	DT	O3'-P-O5'	-7.37	89.99	104.00
11	AB	2532	DT	O3'-P-O5'	-7.37	89.99	104.00
11	AB	2753	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	3405	DT	O3'-P-O5'	-7.37	89.99	104.00
11	AB	3683	DT	O3'-P-O5'	-7.37	89.99	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5111	DT	O3'-P-O5'	-7.37	89.99	104.00
11	AB	5760	DT	O3'-P-O5'	-7.37	89.99	104.00
11	AB	5971	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	6285	DT	O3'-P-O5'	-7.37	90.00	104.00
34	CA	16	DT	O3'-P-O5'	-7.37	90.00	104.00
54	E8	25	DT	O3'-P-O5'	-7.37	89.99	104.00
55	E9	37	DT	O3'-P-O5'	-7.37	89.99	104.00
69	FD	36	DT	O3'-P-O5'	-7.37	89.99	104.00
107	J6	11	DT	O3'-P-O5'	-7.37	90.00	104.00
177	Q3	21	DT	O3'-P-O5'	-7.37	89.99	104.00
178	Q5	27	DT	O3'-P-O5'	-7.37	90.00	104.00
179	Q7	20	DT	O3'-P-O5'	-7.37	89.99	104.00
182	QA	10	DT	O3'-P-O5'	-7.37	89.99	104.00
211	TD	16	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	315	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	765	DT	O3'-P-O5'	-7.37	90.00	104.00
46	DC	5	DT	O3'-P-O5'	-7.37	90.00	104.00
138	M5	31	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	28	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	1112	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	1627	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	1633	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	1772	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	2138	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	2365	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	3390	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	3894	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	4037	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	5424	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	5685	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	6150	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	6615	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	7108	DT	O3'-P-O5'	-7.37	90.00	104.00
82	H2	37	DT	O3'-P-O5'	-7.37	90.00	104.00
197	S7	9	DT	O3'-P-O5'	-7.37	90.00	104.00
232	W7	5	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	344	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	1031	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	1103	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	1286	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	2159	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	2309	DT	O3'-P-O5'	-7.37	90.00	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4492	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	5571	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	5953	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	6437	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	6519	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	6767	DT	O3'-P-O5'	-7.37	90.00	104.00
17	B4	10	DT	O3'-P-O5'	-7.37	90.00	104.00
74	G6	20	DT	O3'-P-O5'	-7.37	90.00	104.00
94	I3	54	DT	O3'-P-O5'	-7.37	90.00	104.00
137	M3	16	DT	O3'-P-O5'	-7.37	90.00	104.00
3	A3	22	DT	O3'-P-O5'	-7.37	90.01	104.00
11	AB	136	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	332	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	339	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	347	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	878	DT	O3'-P-O5'	-7.37	90.01	104.00
11	AB	881	DT	O3'-P-O5'	-7.37	90.01	104.00
11	AB	2291	DT	O3'-P-O5'	-7.37	90.01	104.00
11	AB	5027	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	5118	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	5429	DT	O3'-P-O5'	-7.37	90.01	104.00
11	AB	5574	DT	O3'-P-O5'	-7.37	90.01	104.00
11	AB	5771	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	5823	DT	O3'-P-O5'	-7.37	90.01	104.00
11	AB	5906	DT	O3'-P-O5'	-7.37	90.01	104.00
11	AB	6513	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	7002	DT	O3'-P-O5'	-7.37	90.01	104.00
48	E1	20	DT	O3'-P-O5'	-7.37	90.00	104.00
58	ED	18	DT	O3'-P-O5'	-7.37	90.01	104.00
102	ID	1	DT	O3'-P-O5'	-7.37	90.01	104.00
109	J8	24	DT	O3'-P-O5'	-7.37	90.00	104.00
134	LC	11	DT	O3'-P-O5'	-7.37	90.00	104.00
174	PC	13	DT	O3'-P-O5'	-7.37	90.00	104.00
11	AB	302	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	800	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	3386	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	6462	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	6772	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	6779	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	6929	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	7122	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	7150	DT	O3'-P-O5'	-7.36	90.01	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
95	I5	17	DT	O3'-P-O5'	-7.36	90.01	104.00
119	K7	26	DT	O3'-P-O5'	-7.36	90.01	104.00
120	K8	5	DT	O3'-P-O5'	-7.36	90.01	104.00
124	KD	22	DT	O3'-P-O5'	-7.36	90.01	104.00
6	A6	20	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	899	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	2943	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	4374	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	6759	DT	O3'-P-O5'	-7.36	90.01	104.00
31	C7	18	DT	O3'-P-O5'	-7.36	90.01	104.00
39	D3	1	DT	O3'-P-O5'	-7.36	90.01	104.00
73	G5	23	DT	O3'-P-O5'	-7.36	90.01	104.00
148	N5	34	DT	O3'-P-O5'	-7.36	90.01	104.00
200	SA	10	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	122	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	983	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	1440	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	1458	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	1590	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	3368	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	3420	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	4410	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	4739	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	5182	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	5559	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	5844	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	5847	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	5964	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	6713	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	6984	DT	O3'-P-O5'	-7.36	90.02	104.00
31	C7	14	DT	O3'-P-O5'	-7.36	90.02	104.00
56	EA	11	DT	O3'-P-O5'	-7.36	90.02	104.00
96	I6	2	DT	O3'-P-O5'	-7.36	90.02	104.00
99	I9	19	DT	O3'-P-O5'	-7.36	90.01	104.00
113	JD	29	DT	O3'-P-O5'	-7.36	90.02	104.00
117	K5	31	DT	O3'-P-O5'	-7.36	90.01	104.00
149	N6	25	DT	O3'-P-O5'	-7.36	90.02	104.00
174	PC	9	DT	O3'-P-O5'	-7.36	90.01	104.00
188	R7	4	DT	O3'-P-O5'	-7.36	90.01	104.00
11	AB	905	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	6021	DT	O3'-P-O5'	-7.36	90.02	104.00
97	I7	29	DT	O3'-P-O5'	-7.36	90.02	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
109	J8	48	DT	O3'-P-O5'	-7.36	90.02	104.00
178	Q5	23	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	911	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	920	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	1280	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	1603	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	2760	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	3234	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	3242	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	3651	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	4495	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	6459	DT	O3'-P-O5'	-7.36	90.02	104.00
22	B9	44	DT	O3'-P-O5'	-7.36	90.02	104.00
88	H9	13	DT	O3'-P-O5'	-7.36	90.02	104.00
93	I2	37	DT	O3'-P-O5'	-7.36	90.02	104.00
109	J8	39	DT	O3'-P-O5'	-7.36	90.02	104.00
117	K5	26	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	13	DT	O3'-P-O5'	-7.36	90.03	104.00
11	AB	24	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	92	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	309	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	1263	DT	O3'-P-O5'	-7.36	90.03	104.00
11	AB	1588	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	3738	DT	O3'-P-O5'	-7.36	90.03	104.00
11	AB	3887	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	4648	DT	O3'-P-O5'	-7.36	90.03	104.00
11	AB	5755	DT	O3'-P-O5'	-7.36	90.03	104.00
11	AB	6119	DT	O3'-P-O5'	-7.36	90.03	104.00
11	AB	6140	DT	O3'-P-O5'	-7.36	90.02	104.00
11	AB	6384	DT	O3'-P-O5'	-7.36	90.03	104.00
85	H6	25	DT	O3'-P-O5'	-7.36	90.02	104.00
206	T7	4	DT	O3'-P-O5'	-7.36	90.02	104.00
234	W9	11	DT	O3'-P-O5'	-7.36	90.03	104.00
11	AB	2234	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	6222	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	6290	DT	O3'-P-O5'	-7.35	90.03	104.00
94	I3	42	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	1082	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	1216	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	1337	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	6114	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	6210	DT	O3'-P-O5'	-7.35	90.03	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6453	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	6841	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	7176	DT	O3'-P-O5'	-7.35	90.03	104.00
28	C3	12	DT	O3'-P-O5'	-7.35	90.03	104.00
83	H3	18	DT	O3'-P-O5'	-7.35	90.03	104.00
125	L1	24	DT	O3'-P-O5'	-7.35	90.03	104.00
165	OD	31	DT	O3'-P-O5'	-7.35	90.03	104.00
165	OD	34	DT	O3'-P-O5'	-7.35	90.03	104.00
189	R8	26	DT	O3'-P-O5'	-7.35	90.03	104.00
207	T8	6	DT	O3'-P-O5'	-7.35	90.03	104.00
212	U2	9	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	151	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	2642	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	3104	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	4900	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	5060	DT	O3'-P-O5'	-7.35	90.03	104.00
68	FC	4	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	3540	DT	O3'-P-O5'	-7.35	90.04	104.00
11	AB	5049	DT	O3'-P-O5'	-7.35	90.04	104.00
11	AB	5420	DT	O3'-P-O5'	-7.35	90.03	104.00
11	AB	6268	DT	O3'-P-O5'	-7.35	90.04	104.00
47	DD	28	DT	O3'-P-O5'	-7.35	90.03	104.00
56	EA	14	DT	O3'-P-O5'	-7.35	90.04	104.00
75	G7	25	DT	O3'-P-O5'	-7.35	90.04	104.00
108	J7	52	DT	O3'-P-O5'	-7.35	90.04	104.00
187	R5	24	DT	O3'-P-O5'	-7.35	90.03	104.00
9	A9	5	DT	O3'-P-O5'	-7.35	90.04	104.00
11	AB	1340	DT	O3'-P-O5'	-7.35	90.04	104.00
11	AB	1346	DT	O3'-P-O5'	-7.35	90.04	104.00
11	AB	1364	DT	O3'-P-O5'	-7.35	90.04	104.00
11	AB	1781	DT	O3'-P-O5'	-7.35	90.04	104.00
11	AB	6542	DT	O3'-P-O5'	-7.35	90.04	104.00
11	AB	6904	DT	O3'-P-O5'	-7.35	90.04	104.00
126	L2	23	DT	O3'-P-O5'	-7.35	90.04	104.00
194	S2	28	DT	O3'-P-O5'	-7.35	90.04	104.00
199	S9	17	DT	O3'-P-O5'	-7.35	90.04	104.00
11	AB	3096	DT	O3'-P-O5'	-7.35	90.04	104.00
107	J6	42	DT	O3'-P-O5'	-7.35	90.04	104.00
195	S3	4	DT	O3'-P-O5'	-7.35	90.04	104.00
11	AB	17	DT	O3'-P-O5'	-7.34	90.05	104.00
11	AB	222	DT	O3'-P-O5'	-7.34	90.05	104.00
11	AB	1193	DT	O3'-P-O5'	-7.34	90.05	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1361	DT	O3'-P-O5'	-7.34	90.05	104.00
11	AB	1488	DT	O3'-P-O5'	-7.34	90.04	104.00
197	S7	22	DT	O3'-P-O5'	-7.34	90.05	104.00
11	AB	37	DT	O3'-P-O5'	-7.34	90.05	104.00
11	AB	1768	DT	O3'-P-O5'	-7.34	90.05	104.00
74	G6	34	DT	O3'-P-O5'	-7.34	90.05	104.00
84	H5	19	DT	O3'-P-O5'	-7.34	90.05	104.00
11	AB	3360	DT	O3'-P-O5'	-7.34	90.05	104.00
11	AB	6627	DT	O3'-P-O5'	-7.34	90.05	104.00
174	PC	18	DT	O3'-P-O5'	-7.34	90.05	104.00
222	V3	9	DT	O3'-P-O5'	-7.34	90.05	104.00
11	AB	31	DT	O3'-P-O5'	-7.34	90.06	104.00
11	AB	1428	DT	O3'-P-O5'	-7.34	90.06	104.00
11	AB	2549	DT	O3'-P-O5'	-7.34	90.05	104.00
11	AB	4841	DT	O3'-P-O5'	-7.34	90.06	104.00
82	H2	46	DT	O3'-P-O5'	-7.34	90.06	104.00
161	O8	22	DT	O3'-P-O5'	-7.34	90.06	104.00
11	AB	2043	DT	O3'-P-O5'	-7.34	90.06	104.00
11	AB	3546	DT	O3'-P-O5'	-7.34	90.06	104.00
33	C9	8	DT	O3'-P-O5'	-7.34	90.06	104.00
11	AB	1787	DT	O3'-P-O5'	-7.34	90.06	104.00
11	AB	2850	DT	O3'-P-O5'	-7.34	90.06	104.00
11	AB	4306	DT	O3'-P-O5'	-7.34	90.06	104.00
11	AB	5364	DT	O3'-P-O5'	-7.34	90.06	104.00
129	L6	5	DT	O3'-P-O5'	-7.34	90.06	104.00
11	AB	5976	DT	O3'-P-O5'	-7.33	90.07	104.00
11	AB	3870	DT	O3'-P-O5'	-7.33	90.08	104.00
161	O8	5	DT	O3'-P-O5'	-7.33	90.08	104.00
11	AB	2931	DT	O3'-P-O5'	-7.32	90.09	104.00
11	AB	6716	DT	O3'-P-O5'	-7.30	90.12	104.00
11	AB	6991	DT	O3'-P-O5'	-7.30	90.14	104.00
11	AB	2765	DT	O3'-P-O5'	-7.29	90.16	104.00
11	AB	2882	DT	O3'-P-O5'	-7.28	90.16	104.00
11	AB	4979	DC	OP1-P-O3'	7.25	121.16	105.20
11	AB	3207	DC	OP1-P-O3'	7.25	121.15	105.20
11	AB	2267	DG	OP2-P-O3'	7.25	121.14	105.20
11	AB	4663	DG	OP2-P-O3'	7.24	121.13	105.20
2	A2	7	DG	OP2-P-O3'	7.24	121.12	105.20
11	AB	628	DG	OP2-P-O3'	7.24	121.12	105.20
11	AB	2483	DG	OP2-P-O3'	7.24	121.12	105.20
11	AB	5987	DG	OP2-P-O3'	7.24	121.12	105.20
109	J8	29	DG	OP2-P-O3'	7.24	121.12	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	216	DG	OP2-P-O3'	7.24	121.12	105.20
11	AB	1936	DG	OP2-P-O3'	7.24	121.12	105.20
71	G2	10	DG	OP2-P-O3'	7.24	121.12	105.20
214	U5	27	DG	OP2-P-O3'	7.24	121.12	105.20
11	AB	1016	DG	OP2-P-O3'	7.23	121.11	105.20
11	AB	2067	DG	OP2-P-O3'	7.23	121.11	105.20
11	AB	3325	DG	OP2-P-O3'	7.23	121.11	105.20
11	AB	3844	DG	OP2-P-O3'	7.23	121.11	105.20
40	D5	6	DG	OP2-P-O3'	7.23	121.11	105.20
165	OD	11	DG	OP2-P-O3'	7.23	121.11	105.20
185	R2	5	DG	OP2-P-O3'	7.23	121.11	105.20
221	V2	12	DG	OP2-P-O3'	7.23	121.11	105.20
11	AB	1311	DG	OP2-P-O3'	7.23	121.11	105.20
11	AB	5005	DG	OP2-P-O3'	7.23	121.11	105.20
11	AB	6813	DG	OP2-P-O3'	7.23	121.11	105.20
138	M5	16	DG	OP2-P-O3'	7.23	121.11	105.20
228	VC	24	DG	OP2-P-O3'	7.23	121.11	105.20
11	AB	4431	DG	OP2-P-O3'	7.23	121.10	105.20
11	AB	5875	DG	OP2-P-O3'	7.23	121.10	105.20
11	AB	6318	DG	OP2-P-O3'	7.23	121.11	105.20
11	AB	7199	DG	OP2-P-O3'	7.23	121.10	105.20
47	DD	15	DG	OP2-P-O3'	7.23	121.10	105.20
116	K3	16	DG	OP2-P-O3'	7.23	121.10	105.20
7	A7	11	DG	OP2-P-O3'	7.23	121.10	105.20
11	AB	6115	DG	OP2-P-O3'	7.23	121.10	105.20
30	C6	41	DG	OP2-P-O3'	7.23	121.10	105.20
82	H2	30	DG	OP2-P-O3'	7.23	121.10	105.20
86	H7	14	DG	OP2-P-O3'	7.23	121.10	105.20
114	K1	44	DG	OP2-P-O3'	7.23	121.10	105.20
185	R2	20	DG	OP2-P-O3'	7.23	121.10	105.20
223	V5	7	DG	OP2-P-O3'	7.23	121.10	105.20
230	W3	9	DG	OP2-P-O3'	7.23	121.10	105.20
152	N9	43	DG	OP2-P-O3'	7.23	121.10	105.20
194	S2	18	DG	OP2-P-O3'	7.23	121.10	105.20
11	AB	1020	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	3925	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	6250	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	6328	DG	OP2-P-O3'	7.22	121.09	105.20
24	BC	12	DG	OP2-P-O3'	7.22	121.09	105.20
87	H8	19	DG	OP2-P-O3'	7.22	121.09	105.20
114	K1	26	DG	OP2-P-O3'	7.22	121.09	105.20
119	K7	35	DG	OP2-P-O3'	7.22	121.09	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
127	L3	15	DG	OP2-P-O3'	7.22	121.09	105.20
3	A3	14	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	1299	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	3130	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	3430	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	3896	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	5325	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	6170	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	6595	DG	OP2-P-O3'	7.22	121.09	105.20
30	C6	37	DG	OP2-P-O3'	7.22	121.09	105.20
45	DA	20	DG	OP2-P-O3'	7.22	121.09	105.20
109	J8	44	DG	OP2-P-O3'	7.22	121.09	105.20
119	K7	22	DG	OP2-P-O3'	7.22	121.09	105.20
161	O8	28	DG	OP2-P-O3'	7.22	121.09	105.20
225	V8	11	DG	OP2-P-O3'	7.22	121.09	105.20
235	WD	5	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	152	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	1317	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	5908	DC	OP1-P-O3'	7.22	121.09	105.20
52	E6	4	DG	OP2-P-O3'	7.22	121.09	105.20
211	TD	23	DG	OP2-P-O3'	7.22	121.08	105.20
216	U8	14	DG	OP2-P-O3'	7.22	121.09	105.20
224	V7	21	DG	OP2-P-O3'	7.22	121.09	105.20
11	AB	1200	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	1531	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	2031	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	5234	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	5455	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	5973	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	6286	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	6454	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	6800	DG	OP2-P-O3'	7.22	121.08	105.20
33	C9	6	DG	OP2-P-O3'	7.22	121.08	105.20
57	EC	21	DG	OP2-P-O3'	7.22	121.08	105.20
126	L2	36	DG	OP2-P-O3'	7.22	121.08	105.20
141	M8	15	DG	OP2-P-O3'	7.22	121.08	105.20
183	QC	11	DG	OP2-P-O3'	7.22	121.08	105.20
189	R8	31	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	405	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	614	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	3376	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	3487	DG	OP2-P-O3'	7.22	121.08	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4837	DG	OP2-P-O3'	7.22	121.08	105.20
47	DD	25	DG	OP2-P-O3'	7.22	121.08	105.20
55	E9	11	DG	OP2-P-O3'	7.22	121.08	105.20
59	F1	2	DG	OP2-P-O3'	7.22	121.08	105.20
76	G8	12	DG	OP2-P-O3'	7.22	121.08	105.20
95	I5	12	DG	OP2-P-O3'	7.22	121.08	105.20
130	L7	56	DG	OP2-P-O3'	7.22	121.08	105.20
150	N7	3	DG	OP2-P-O3'	7.22	121.08	105.20
157	O3	1	DG	OP2-P-O3'	7.22	121.08	105.20
179	Q7	7	DG	OP2-P-O3'	7.22	121.08	105.20
206	T7	42	DG	OP2-P-O3'	7.22	121.08	105.20
222	V3	12	DG	OP2-P-O3'	7.22	121.08	105.20
3	A3	9	DC	OP1-P-O3'	7.22	121.08	105.20
6	A6	21	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	582	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	1050	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	1155	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	1836	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	1962	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	2409	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	2688	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	2793	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	4422	DG	OP2-P-O3'	7.22	121.08	105.20
11	AB	4795	DG	OP2-P-O3'	7.22	121.08	105.20
13	AD	16	DG	OP2-P-O3'	7.22	121.08	105.20
29	C5	35	DG	OP2-P-O3'	7.22	121.07	105.20
32	C8	15	DG	OP2-P-O3'	7.22	121.08	105.20
86	H7	11	DG	OP2-P-O3'	7.22	121.08	105.20
95	I5	18	DG	OP2-P-O3'	7.22	121.08	105.20
108	J7	31	DG	OP2-P-O3'	7.22	121.08	105.20
111	JA	4	DG	OP2-P-O3'	7.22	121.08	105.20
169	P6	7	DG	OP2-P-O3'	7.22	121.08	105.20
187	R5	25	DG	OP2-P-O3'	7.22	121.08	105.20
219	UC	27	DG	OP2-P-O3'	7.22	121.08	105.20
234	W9	16	DG	OP2-P-O3'	7.22	121.07	105.20
6	A6	6	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	760	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	1829	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	2337	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	2486	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	2510	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	2863	DG	OP2-P-O3'	7.21	121.07	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2868	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	3088	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	3334	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	5054	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	6346	DG	OP2-P-O3'	7.21	121.07	105.20
25	BD	7	DG	OP2-P-O3'	7.21	121.07	105.20
28	C3	21	DG	OP2-P-O3'	7.21	121.07	105.20
28	C3	24	DG	OP2-P-O3'	7.21	121.07	105.20
32	C8	53	DG	OP2-P-O3'	7.21	121.07	105.20
46	DC	6	DG	OP2-P-O3'	7.21	121.07	105.20
49	E2	40	DG	OP2-P-O3'	7.21	121.07	105.20
52	E6	28	DG	OP2-P-O3'	7.21	121.07	105.20
55	E9	29	DG	OP2-P-O3'	7.21	121.07	105.20
70	G1	8	DG	OP2-P-O3'	7.21	121.07	105.20
88	H9	23	DG	OP2-P-O3'	7.21	121.07	105.20
94	I3	50	DG	OP2-P-O3'	7.21	121.07	105.20
111	JA	6	DG	OP2-P-O3'	7.21	121.07	105.20
115	K2	27	DG	OP2-P-O3'	7.21	121.07	105.20
122	KA	33	DG	OP2-P-O3'	7.21	121.07	105.20
148	N5	30	DG	OP2-P-O3'	7.21	121.07	105.20
182	QA	18	DG	OP2-P-O3'	7.21	121.07	105.20
190	R9	8	DG	OP2-P-O3'	7.21	121.07	105.20
194	S2	5	DG	OP2-P-O3'	7.21	121.07	105.20
213	U3	1	DG	OP2-P-O3'	7.21	121.07	105.20
1	A1	42	DG	OP2-P-O3'	7.21	121.07	105.20
9	A9	10	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	399	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	1721	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	5042	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	5129	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	5611	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	5806	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	5815	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	6310	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	6616	DG	OP2-P-O3'	7.21	121.07	105.20
30	C6	33	DG	OP2-P-O3'	7.21	121.07	105.20
42	D7	15	DG	OP2-P-O3'	7.21	121.07	105.20
43	D8	5	DG	OP2-P-O3'	7.21	121.07	105.20
58	ED	32	DG	OP2-P-O3'	7.21	121.07	105.20
67	FA	32	DG	OP2-P-O3'	7.21	121.07	105.20
102	ID	17	DG	OP2-P-O3'	7.21	121.07	105.20
108	J7	53	DG	OP2-P-O3'	7.21	121.07	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
124	KD	19	DG	OP2-P-O3'	7.21	121.07	105.20
131	L8	11	DG	OP2-P-O3'	7.21	121.07	105.20
156	O2	54	DG	OP2-P-O3'	7.21	121.07	105.20
187	R5	37	DG	OP2-P-O3'	7.21	121.07	105.20
226	V9	22	DG	OP2-P-O3'	7.21	121.07	105.20
2	A2	23	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	921	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	1808	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	1907	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	1989	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	2941	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	3066	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	3691	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	3900	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	4735	DC	OP1-P-O3'	7.21	121.07	105.20
11	AB	4755	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	5012	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	6124	DG	OP2-P-O3'	7.21	121.07	105.20
23	BA	30	DG	OP2-P-O3'	7.21	121.06	105.20
29	C5	3	DG	OP2-P-O3'	7.21	121.07	105.20
39	D3	20	DG	OP2-P-O3'	7.21	121.07	105.20
40	D5	19	DG	OP2-P-O3'	7.21	121.06	105.20
47	DD	34	DG	OP2-P-O3'	7.21	121.06	105.20
92	I1	15	DG	OP2-P-O3'	7.21	121.07	105.20
105	J3	9	DG	OP2-P-O3'	7.21	121.06	105.20
137	M3	17	DG	OP2-P-O3'	7.21	121.07	105.20
138	M5	6	DG	OP2-P-O3'	7.21	121.06	105.20
148	N5	5	DG	OP2-P-O3'	7.21	121.06	105.20
151	N8	2	DG	OP2-P-O3'	7.21	121.07	105.20
160	O7	48	DG	OP2-P-O3'	7.21	121.07	105.20
165	OD	22	DG	OP2-P-O3'	7.21	121.06	105.20
174	PC	14	DG	OP2-P-O3'	7.21	121.07	105.20
195	S3	26	DG	OP2-P-O3'	7.21	121.06	105.20
199	S9	3	DG	OP2-P-O3'	7.21	121.06	105.20
229	VD	8	DG	OP2-P-O3'	7.21	121.07	105.20
11	AB	2726	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	3289	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	3387	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	3796	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	5072	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	5493	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	6750	DG	OP2-P-O3'	7.21	121.06	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
91	HD	22	DG	OP2-P-O3'	7.21	121.06	105.20
107	J6	15	DG	OP2-P-O3'	7.21	121.06	105.20
154	NC	4	DG	OP2-P-O3'	7.21	121.06	105.20
154	NC	21	DG	OP2-P-O3'	7.21	121.06	105.20
209	TA	9	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	138	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	273	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	303	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	348	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	450	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	746	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	789	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	807	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	906	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	972	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	1804	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	2091	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	3723	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	4009	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	4280	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	4438	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	4645	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	5399	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	6412	DC	OP1-P-O3'	7.21	121.06	105.20
11	AB	6445	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	6665	DG	OP2-P-O3'	7.21	121.06	105.20
17	B4	16	DG	OP2-P-O3'	7.21	121.06	105.20
32	C8	37	DG	OP2-P-O3'	7.21	121.06	105.20
45	DA	11	DG	OP2-P-O3'	7.21	121.06	105.20
61	F3	17	DG	OP2-P-O3'	7.21	121.06	105.20
83	H3	30	DG	OP2-P-O3'	7.21	121.06	105.20
91	HD	15	DG	OP2-P-O3'	7.21	121.06	105.20
99	I9	29	DG	OP2-P-O3'	7.21	121.06	105.20
101	IC	13	DG	OP2-P-O3'	7.21	121.06	105.20
108	J7	8	DG	OP2-P-O3'	7.21	121.06	105.20
110	J9	10	DG	OP2-P-O3'	7.21	121.06	105.20
130	L7	38	DG	OP2-P-O3'	7.21	121.06	105.20
139	M6	13	DG	OP2-P-O3'	7.21	121.06	105.20
142	M9	1	DG	OP2-P-O3'	7.21	121.06	105.20
147	N3	7	DG	OP2-P-O3'	7.21	121.06	105.20
157	O3	12	DG	OP2-P-O3'	7.21	121.06	105.20
162	O9	5	DG	OP2-P-O3'	7.21	121.06	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
169	P6	16	DG	OP2-P-O3'	7.21	121.06	105.20
180	Q8	24	DG	OP2-P-O3'	7.21	121.06	105.20
197	S7	23	DG	OP2-P-O3'	7.21	121.06	105.20
206	T7	15	DG	OP2-P-O3'	7.21	121.06	105.20
230	W3	48	DG	OP2-P-O3'	7.21	121.06	105.20
236	X5	9	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	124	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	940	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	978	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	1068	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	2001	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	2266	DC	OP1-P-O3'	7.21	121.05	105.20
11	AB	2643	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	3946	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	4233	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	4271	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	4789	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	4801	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	5081	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	5192	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	5421	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	5441	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	5949	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	6493	DC	OP1-P-O3'	7.21	121.06	105.20
11	AB	6746	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	6893	DG	OP2-P-O3'	7.21	121.06	105.20
11	AB	7243	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	7247	DG	OP2-P-O3'	7.21	121.05	105.20
16	B3	6	DG	OP2-P-O3'	7.21	121.05	105.20
18	B5	33	DG	OP2-P-O3'	7.21	121.06	105.20
21	B8	16	DG	OP2-P-O3'	7.21	121.05	105.20
22	B9	53	DG	OP2-P-O3'	7.21	121.06	105.20
34	CA	11	DG	OP2-P-O3'	7.21	121.05	105.20
89	HA	20	DG	OP2-P-O3'	7.21	121.06	105.20
89	HA	28	DG	OP2-P-O3'	7.21	121.05	105.20
145	MD	55	DG	OP2-P-O3'	7.21	121.06	105.20
155	ND	14	DG	OP2-P-O3'	7.21	121.06	105.20
160	O7	36	DG	OP2-P-O3'	7.21	121.05	105.20
212	U2	13	DG	OP2-P-O3'	7.21	121.06	105.20
222	V3	21	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	2109	DC	OP1-P-O3'	7.21	121.05	105.20
11	AB	4599	DC	OP1-P-O3'	7.21	121.05	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4961	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	5977	DG	OP2-P-O3'	7.21	121.05	105.20
11	AB	6780	DG	OP2-P-O3'	7.21	121.05	105.20
51	E5	28	DG	OP2-P-O3'	7.21	121.05	105.20
114	K1	31	DG	OP2-P-O3'	7.21	121.05	105.20
152	N9	47	DG	OP2-P-O3'	7.21	121.05	105.20
153	NA	22	DG	OP2-P-O3'	7.21	121.05	105.20
202	SD	16	DG	OP2-P-O3'	7.21	121.05	105.20
7	A7	8	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	70	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	1029	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	1757	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	3115	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	3124	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	3133	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	3576	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	4256	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	4329	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	4683	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	4760	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	5194	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	5231	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	6177	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	6229	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	6304	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	6543	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	6943	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	6949	DG	OP2-P-O3'	7.20	121.05	105.20
12	AC	20	DG	OP2-P-O3'	7.20	121.05	105.20
18	B5	15	DG	OP2-P-O3'	7.20	121.05	105.20
18	B5	29	DG	OP2-P-O3'	7.20	121.05	105.20
33	C9	9	DG	OP2-P-O3'	7.20	121.05	105.20
35	CC	7	DG	OP2-P-O3'	7.20	121.05	105.20
36	CD	3	DG	OP2-P-O3'	7.20	121.05	105.20
41	D6	1	DG	OP2-P-O3'	7.20	121.05	105.20
41	D6	9	DG	OP2-P-O3'	7.20	121.05	105.20
43	D8	40	DG	OP2-P-O3'	7.20	121.05	105.20
49	E2	28	DG	OP2-P-O3'	7.20	121.05	105.20
63	F6	6	DG	OP2-P-O3'	7.20	121.05	105.20
66	F9	5	DG	OP2-P-O3'	7.20	121.05	105.20
74	G6	7	DG	OP2-P-O3'	7.20	121.05	105.20
90	HC	14	DC	OP1-P-O3'	7.20	121.05	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
107	J6	12	DG	OP2-P-O3'	7.20	121.05	105.20
113	JD	26	DG	OP2-P-O3'	7.20	121.05	105.20
119	K7	9	DG	OP2-P-O3'	7.20	121.05	105.20
125	L1	33	DG	OP2-P-O3'	7.20	121.05	105.20
126	L2	48	DG	OP2-P-O3'	7.20	121.05	105.20
130	L7	6	DG	OP2-P-O3'	7.20	121.05	105.20
130	L7	34	DG	OP2-P-O3'	7.20	121.05	105.20
137	M3	34	DG	OP2-P-O3'	7.20	121.05	105.20
145	MD	53	DG	OP2-P-O3'	7.20	121.05	105.20
150	N7	6	DG	OP2-P-O3'	7.20	121.05	105.20
154	NC	6	DG	OP2-P-O3'	7.20	121.05	105.20
156	O2	40	DG	OP2-P-O3'	7.20	121.05	105.20
168	P5	7	DG	OP2-P-O3'	7.20	121.05	105.20
173	PA	4	DG	OP2-P-O3'	7.20	121.05	105.20
178	Q5	9	DG	OP2-P-O3'	7.20	121.05	105.20
185	R2	8	DG	OP2-P-O3'	7.20	121.05	105.20
198	S8	29	DG	OP2-P-O3'	7.20	121.05	105.20
201	SC	12	DG	OP2-P-O3'	7.20	121.05	105.20
202	SD	10	DG	OP2-P-O3'	7.20	121.05	105.20
222	V3	17	DG	OP2-P-O3'	7.20	121.05	105.20
229	VD	5	DG	OP2-P-O3'	7.20	121.05	105.20
230	W3	19	DG	OP2-P-O3'	7.20	121.05	105.20
230	W3	39	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	474	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	936	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	2084	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	2698	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	3544	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	4021	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	4611	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	5304	DG	OP2-P-O3'	7.20	121.05	105.20
11	AB	6810	DG	OP2-P-O3'	7.20	121.05	105.20
56	EA	8	DG	OP2-P-O3'	7.20	121.04	105.20
60	F2	27	DG	OP2-P-O3'	7.20	121.04	105.20
67	FA	3	DG	OP2-P-O3'	7.20	121.05	105.20
82	H2	14	DG	OP2-P-O3'	7.20	121.05	105.20
108	J7	5	DG	OP2-P-O3'	7.20	121.05	105.20
177	Q3	22	DG	OP2-P-O3'	7.20	121.04	105.20
203	T2	26	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	22	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	420	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	681	DG	OP2-P-O3'	7.20	121.04	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2187	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	3684	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	4520	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	4558	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	4778	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	5273	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	6151	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	6540	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	6591	DC	OP1-P-O3'	7.20	121.04	105.20
23	BA	10	DG	OP2-P-O3'	7.20	121.04	105.20
60	F2	20	DG	OP2-P-O3'	7.20	121.04	105.20
87	H8	21	DG	OP2-P-O3'	7.20	121.04	105.20
93	I2	41	DG	OP2-P-O3'	7.20	121.04	105.20
95	I5	30	DG	OP2-P-O3'	7.20	121.04	105.20
97	I7	8	DG	OP2-P-O3'	7.20	121.04	105.20
129	L6	25	DG	OP2-P-O3'	7.20	121.04	105.20
130	L7	1	DG	OP2-P-O3'	7.20	121.04	105.20
161	O8	51	DG	OP2-P-O3'	7.20	121.04	105.20
165	OD	35	DG	OP2-P-O3'	7.20	121.04	105.20
178	Q5	39	DG	OP2-P-O3'	7.20	121.04	105.20
196	S5	22	DG	OP2-P-O3'	7.20	121.04	105.20
198	S8	27	DG	OP2-P-O3'	7.20	121.04	105.20
210	TC	24	DG	OP2-P-O3'	7.20	121.04	105.20
226	V9	28	DG	OP2-P-O3'	7.20	121.04	105.20
228	VC	35	DG	OP2-P-O3'	7.20	121.04	105.20
1	A1	23	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	21	DC	OP1-P-O3'	7.20	121.04	105.20
11	AB	101	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	522	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	1942	DC	OP1-P-O3'	7.20	121.03	105.20
11	AB	2313	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	3100	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	3753	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	4358	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	4964	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	5087	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	5116	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	5152	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	6628	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	6966	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	7193	DG	OP2-P-O3'	7.20	121.04	105.20
15	B2	16	DG	OP2-P-O3'	7.20	121.04	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	B4	14	DG	OP2-P-O3'	7.20	121.04	105.20
29	C5	10	DG	OP2-P-O3'	7.20	121.04	105.20
29	C5	33	DG	OP2-P-O3'	7.20	121.04	105.20
31	C7	20	DG	OP2-P-O3'	7.20	121.04	105.20
43	D8	33	DG	OP2-P-O3'	7.20	121.03	105.20
44	D9	24	DG	OP2-P-O3'	7.20	121.04	105.20
53	E7	13	DG	OP2-P-O3'	7.20	121.04	105.20
76	G8	20	DG	OP2-P-O3'	7.20	121.04	105.20
82	H2	29	DC	OP1-P-O3'	7.20	121.04	105.20
83	H3	24	DG	OP2-P-O3'	7.20	121.03	105.20
93	I2	19	DG	OP2-P-O3'	7.20	121.04	105.20
111	JA	13	DG	OP2-P-O3'	7.20	121.04	105.20
123	KC	23	DG	OP2-P-O3'	7.20	121.04	105.20
125	L1	2	DG	OP2-P-O3'	7.20	121.04	105.20
126	L2	51	DG	OP2-P-O3'	7.20	121.04	105.20
154	NC	8	DG	OP2-P-O3'	7.20	121.04	105.20
159	O6	20	DG	OP2-P-O3'	7.20	121.03	105.20
187	R5	27	DG	OP2-P-O3'	7.20	121.04	105.20
195	S3	24	DG	OP2-P-O3'	7.20	121.03	105.20
199	S9	22	DG	OP2-P-O3'	7.20	121.04	105.20
207	T8	14	DG	OP2-P-O3'	7.20	121.03	105.20
209	TA	31	DG	OP2-P-O3'	7.20	121.04	105.20
238	X9	20	DG	OP2-P-O3'	7.20	121.04	105.20
11	AB	270	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	435	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	989	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	1194	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	4376	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	6072	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	6931	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	7246	DC	OP1-P-O3'	7.20	121.03	105.20
48	E1	5	DG	OP2-P-O3'	7.20	121.03	105.20
59	F1	18	DG	OP2-P-O3'	7.20	121.03	105.20
61	F3	23	DG	OP2-P-O3'	7.20	121.03	105.20
90	HC	21	DG	OP2-P-O3'	7.20	121.03	105.20
93	I2	15	DG	OP2-P-O3'	7.20	121.03	105.20
94	I3	33	DG	OP2-P-O3'	7.20	121.03	105.20
99	I9	27	DG	OP2-P-O3'	7.20	121.03	105.20
113	JD	5	DG	OP2-P-O3'	7.20	121.03	105.20
165	OD	32	DG	OP2-P-O3'	7.20	121.03	105.20
175	PD	21	DG	OP2-P-O3'	7.20	121.03	105.20
182	QA	15	DG	OP2-P-O3'	7.20	121.03	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
206	T7	5	DG	OP2-P-O3'	7.20	121.03	105.20
206	T7	55	DG	OP2-P-O3'	7.20	121.03	105.20
219	UC	13	DG	OP2-P-O3'	7.20	121.03	105.20
4	A4	23	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	579	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	828	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	2028	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	2073	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	2160	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	2434	DC	OP1-P-O3'	7.20	121.03	105.20
11	AB	2489	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	2974	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	3399	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	4336	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	5488	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	5840	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	6255	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	6262	DG	OP2-P-O3'	7.20	121.03	105.20
11	AB	6969	DG	OP2-P-O3'	7.20	121.03	105.20
12	AC	17	DC	OP1-P-O3'	7.20	121.03	105.20
16	B3	12	DG	OP2-P-O3'	7.20	121.03	105.20
19	B6	15	DG	OP2-P-O3'	7.20	121.03	105.20
22	B9	50	DG	OP2-P-O3'	7.20	121.03	105.20
32	C8	19	DG	OP2-P-O3'	7.20	121.03	105.20
67	FA	27	DG	OP2-P-O3'	7.20	121.03	105.20
89	HA	25	DG	OP2-P-O3'	7.20	121.03	105.20
104	J2	15	DC	OP1-P-O3'	7.20	121.03	105.20
105	J3	33	DG	OP2-P-O3'	7.20	121.03	105.20
122	KA	44	DG	OP2-P-O3'	7.20	121.03	105.20
130	L7	36	DG	OP2-P-O3'	7.20	121.03	105.20
144	MC	1	DG	OP2-P-O3'	7.20	121.03	105.20
145	MD	12	DC	OP1-P-O3'	7.20	121.03	105.20
146	N2	8	DG	OP2-P-O3'	7.20	121.03	105.20
150	N7	20	DG	OP2-P-O3'	7.20	121.03	105.20
166	P2	12	DC	OP1-P-O3'	7.20	121.03	105.20
178	Q5	15	DG	OP2-P-O3'	7.20	121.03	105.20
196	S5	9	DG	OP2-P-O3'	7.20	121.03	105.20
200	SA	8	DG	OP2-P-O3'	7.20	121.03	105.20
204	T3	2	DC	OP1-P-O3'	7.20	121.03	105.20
206	T7	36	DG	OP2-P-O3'	7.20	121.03	105.20
5	A5	9	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	2754	DG	OP2-P-O3'	7.19	121.03	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2986	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	3220	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	3822	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	4758	DC	OP1-P-O3'	7.19	121.03	105.20
11	AB	5425	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	5572	DG	OP2-P-O3'	7.19	121.03	105.20
85	H6	29	DG	OP2-P-O3'	7.19	121.03	105.20
147	N3	2	DG	OP2-P-O3'	7.19	121.03	105.20
165	OD	6	DG	OP2-P-O3'	7.19	121.03	105.20
175	PD	8	DG	OP2-P-O3'	7.19	121.03	105.20
182	QA	2	DG	OP2-P-O3'	7.19	121.03	105.20
195	S3	22	DG	OP2-P-O3'	7.19	121.03	105.20
226	V9	24	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	2622	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	3097	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	3230	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	4307	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	5552	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	6088	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	6897	DG	OP2-P-O3'	7.19	121.03	105.20
11	AB	7174	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	7202	DG	OP2-P-O3'	7.19	121.02	105.20
12	AC	5	DG	OP2-P-O3'	7.19	121.03	105.20
14	B1	18	DG	OP2-P-O3'	7.19	121.03	105.20
14	B1	27	DG	OP2-P-O3'	7.19	121.02	105.20
28	C3	15	DG	OP2-P-O3'	7.19	121.02	105.20
35	CC	22	DG	OP2-P-O3'	7.19	121.02	105.20
39	D3	26	DG	OP2-P-O3'	7.19	121.02	105.20
49	E2	32	DG	OP2-P-O3'	7.19	121.02	105.20
85	H6	5	DG	OP2-P-O3'	7.19	121.02	105.20
88	H9	15	DC	OP1-P-O3'	7.19	121.02	105.20
106	J5	4	DG	OP2-P-O3'	7.19	121.03	105.20
106	J5	12	DG	OP2-P-O3'	7.19	121.02	105.20
109	J8	49	DG	OP2-P-O3'	7.19	121.03	105.20
122	KA	2	DC	OP1-P-O3'	7.19	121.02	105.20
125	L1	10	DG	OP2-P-O3'	7.19	121.02	105.20
126	L2	24	DG	OP2-P-O3'	7.19	121.02	105.20
134	LC	12	DG	OP2-P-O3'	7.19	121.02	105.20
155	ND	7	DG	OP2-P-O3'	7.19	121.02	105.20
156	O2	19	DG	OP2-P-O3'	7.19	121.03	105.20
165	OD	29	DG	OP2-P-O3'	7.19	121.03	105.20
165	OD	51	DG	OP2-P-O3'	7.19	121.02	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
167	P3	37	DG	OP2-P-O3'	7.19	121.03	105.20
191	RA	15	DG	OP2-P-O3'	7.19	121.03	105.20
206	T7	34	DG	OP2-P-O3'	7.19	121.02	105.20
206	T7	40	DG	OP2-P-O3'	7.19	121.02	105.20
230	W3	36	DC	OP1-P-O3'	7.19	121.03	105.20
233	W8	21	DG	OP2-P-O3'	7.19	121.03	105.20
234	W9	12	DG	OP2-P-O3'	7.19	121.02	105.20
236	X5	19	DG	OP2-P-O3'	7.19	121.02	105.20
3	A3	20	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	207	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	968	DC	OP1-P-O3'	7.19	121.02	105.20
11	AB	1416	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	2119	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	2540	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	2887	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	3034	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	3863	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	4232	DC	OP1-P-O3'	7.19	121.02	105.20
11	AB	4589	DC	OP1-P-O3'	7.19	121.02	105.20
11	AB	6768	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	7025	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	7215	DC	OP1-P-O3'	7.19	121.02	105.20
13	AD	26	DG	OP2-P-O3'	7.19	121.02	105.20
14	B1	9	DG	OP2-P-O3'	7.19	121.02	105.20
22	B9	22	DG	OP2-P-O3'	7.19	121.02	105.20
40	D5	5	DC	OP1-P-O3'	7.19	121.02	105.20
67	FA	1	DG	OP2-P-O3'	7.19	121.02	105.20
116	K3	14	DC	OP1-P-O3'	7.19	121.02	105.20
129	L6	24	DC	OP1-P-O3'	7.19	121.02	105.20
140	M7	22	DG	OP2-P-O3'	7.19	121.02	105.20
152	N9	29	DG	OP2-P-O3'	7.19	121.02	105.20
153	NA	17	DG	OP2-P-O3'	7.19	121.02	105.20
167	P3	8	DC	OP1-P-O3'	7.19	121.02	105.20
187	R5	21	DG	OP2-P-O3'	7.19	121.02	105.20
191	RA	7	DG	OP2-P-O3'	7.19	121.02	105.20
206	T7	21	DG	OP2-P-O3'	7.19	121.02	105.20
216	U8	11	DG	OP2-P-O3'	7.19	121.02	105.20
222	V3	16	DC	OP1-P-O3'	7.19	121.02	105.20
231	W5	24	DG	OP2-P-O3'	7.19	121.02	105.20
238	X9	7	DG	OP2-P-O3'	7.19	121.02	105.20
238	X9	36	DC	OP1-P-O3'	7.19	121.02	105.20
11	AB	4140	DC	OP1-P-O3'	7.19	121.02	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5190	DC	OP1-P-O3'	7.19	121.02	105.20
11	AB	6514	DG	OP2-P-O3'	7.19	121.02	105.20
11	AB	6948	DC	OP1-P-O3'	7.19	121.02	105.20
11	AB	7058	DC	OP1-P-O3'	7.19	121.02	105.20
11	AB	7110	DG	OP2-P-O3'	7.19	121.02	105.20
38	D2	6	DG	OP2-P-O3'	7.19	121.02	105.20
49	E2	5	DC	OP1-P-O3'	7.19	121.02	105.20
49	E2	7	DG	OP2-P-O3'	7.19	121.02	105.20
61	F3	16	DC	OP1-P-O3'	7.19	121.02	105.20
72	G3	19	DC	OP1-P-O3'	7.19	121.02	105.20
104	J2	16	DG	OP2-P-O3'	7.19	121.02	105.20
119	K7	13	DG	OP2-P-O3'	7.19	121.02	105.20
156	O2	26	DG	OP2-P-O3'	7.19	121.02	105.20
158	O5	32	DG	OP2-P-O3'	7.19	121.02	105.20
164	OC	13	DC	OP1-P-O3'	7.19	121.02	105.20
167	P3	4	DG	OP2-P-O3'	7.19	121.02	105.20
190	R9	13	DG	OP2-P-O3'	7.19	121.02	105.20
238	X9	55	DG	OP2-P-O3'	7.19	121.02	105.20
3	A3	12	DC	OP1-P-O3'	7.19	121.02	105.20
11	AB	737	DC	OP1-P-O3'	7.19	121.01	105.20
11	AB	1944	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	2172	DC	OP1-P-O3'	7.19	121.01	105.20
11	AB	4114	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	4666	DC	OP1-P-O3'	7.19	121.01	105.20
11	AB	5447	DC	OP1-P-O3'	7.19	121.01	105.20
11	AB	5583	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	5909	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	6158	DG	OP2-P-O3'	7.19	121.02	105.20
22	B9	9	DG	OP2-P-O3'	7.19	121.01	105.20
22	B9	16	DC	OP1-P-O3'	7.19	121.01	105.20
22	B9	45	DG	OP2-P-O3'	7.19	121.01	105.20
41	D6	4	DC	OP1-P-O3'	7.19	121.01	105.20
58	ED	19	DG	OP2-P-O3'	7.19	121.01	105.20
85	H6	26	DG	OP2-P-O3'	7.19	121.01	105.20
85	H6	31	DG	OP2-P-O3'	7.19	121.01	105.20
94	I3	29	DG	OP2-P-O3'	7.19	121.01	105.20
113	JD	13	DC	OP1-P-O3'	7.19	121.01	105.20
128	L5	16	DG	OP2-P-O3'	7.19	121.02	105.20
199	S9	6	DG	OP2-P-O3'	7.19	121.01	105.20
209	TA	6	DG	OP2-P-O3'	7.19	121.01	105.20
232	W7	6	DG	OP2-P-O3'	7.19	121.01	105.20
5	A5	24	DC	OP1-P-O3'	7.19	121.01	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	483	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	686	DC	OP1-P-O3'	7.19	121.01	105.20
11	AB	1037	DC	OP1-P-O3'	7.19	121.01	105.20
11	AB	1875	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	1997	DC	OP1-P-O3'	7.19	121.01	105.20
11	AB	2718	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	3391	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	3620	DC	OP1-P-O3'	7.19	121.01	105.20
11	AB	4832	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	5249	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	5262	DG	OP2-P-O3'	7.19	121.01	105.20
11	AB	5532	DC	OP1-P-O3'	7.19	121.01	105.20
11	AB	5761	DG	OP2-P-O3'	7.19	121.01	105.20
39	D3	29	DG	OP2-P-O3'	7.19	121.01	105.20
48	E1	25	DC	OP1-P-O3'	7.19	121.01	105.20
77	G9	8	DG	OP2-P-O3'	7.19	121.01	105.20
81	H1	6	DG	OP2-P-O3'	7.19	121.01	105.20
81	H1	14	DG	OP2-P-O3'	7.19	121.01	105.20
88	H9	29	DC	OP1-P-O3'	7.19	121.01	105.20
104	J2	13	DG	OP2-P-O3'	7.19	121.01	105.20
113	JD	1	DG	OP2-P-O3'	7.19	121.01	105.20
121	K9	27	DG	OP2-P-O3'	7.19	121.01	105.20
134	LC	17	DC	OP1-P-O3'	7.19	121.01	105.20
154	NC	23	DC	OP1-P-O3'	7.19	121.01	105.20
181	Q9	20	DG	OP2-P-O3'	7.19	121.01	105.20
219	UC	30	DC	OP1-P-O3'	7.19	121.01	105.20
228	VC	32	DC	OP1-P-O3'	7.19	121.01	105.20
8	A8	5	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	351	DG	OP2-P-O3'	7.18	121.01	105.20
11	AB	857	DC	OP1-P-O3'	7.18	121.01	105.20
11	AB	1032	DG	OP2-P-O3'	7.18	121.01	105.20
11	AB	1083	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	1525	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	1628	DG	OP2-P-O3'	7.18	121.01	105.20
11	AB	1982	DC	OP1-P-O3'	7.18	121.01	105.20
11	AB	2170	DC	OP1-P-O3'	7.18	121.01	105.20
11	AB	2214	DG	OP2-P-O3'	7.18	121.01	105.20
11	AB	2379	DG	OP2-P-O3'	7.18	121.01	105.20
11	AB	3238	DG	OP2-P-O3'	7.18	121.01	105.20
11	AB	4018	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	4436	DC	OP1-P-O3'	7.18	121.01	105.20
11	AB	4633	DG	OP2-P-O3'	7.18	121.01	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4807	DG	OP2-P-O3'	7.18	121.01	105.20
11	AB	4823	DG	OP2-P-O3'	7.18	121.01	105.20
11	AB	4892	DG	OP2-P-O3'	7.18	121.01	105.20
11	AB	5992	DC	OP1-P-O3'	7.18	121.01	105.20
11	AB	7207	DC	OP1-P-O3'	7.18	121.00	105.20
18	B5	2	DC	OP1-P-O3'	7.18	121.00	105.20
24	BC	5	DC	OP1-P-O3'	7.18	121.01	105.20
26	C1	3	DC	OP1-P-O3'	7.18	121.00	105.20
26	C1	19	DG	OP2-P-O3'	7.18	121.00	105.20
32	C8	27	DC	OP1-P-O3'	7.18	121.00	105.20
37	D1	15	DG	OP2-P-O3'	7.18	121.01	105.20
55	E9	13	DG	OP2-P-O3'	7.18	121.01	105.20
63	F6	10	DC	OP1-P-O3'	7.18	121.00	105.20
74	G6	5	DG	OP2-P-O3'	7.18	121.00	105.20
78	GA	13	DG	OP2-P-O3'	7.18	121.01	105.20
79	GC	5	DG	OP2-P-O3'	7.18	121.00	105.20
101	IC	17	DC	OP1-P-O3'	7.18	121.01	105.20
103	J1	3	DC	OP1-P-O3'	7.18	121.00	105.20
103	J1	4	DG	OP2-P-O3'	7.18	121.01	105.20
106	J5	34	DG	OP2-P-O3'	7.18	121.01	105.20
133	LA	11	DC	OP1-P-O3'	7.18	121.00	105.20
137	M3	5	DG	OP2-P-O3'	7.18	121.01	105.20
148	N5	18	DG	OP2-P-O3'	7.18	121.01	105.20
158	O5	26	DC	OP1-P-O3'	7.18	121.00	105.20
188	R7	5	DG	OP2-P-O3'	7.18	121.00	105.20
202	SD	6	DG	OP2-P-O3'	7.18	121.00	105.20
225	V8	22	DG	OP2-P-O3'	7.18	121.00	105.20
226	V9	21	DC	OP1-P-O3'	7.18	121.01	105.20
228	VC	33	DG	OP2-P-O3'	7.18	121.00	105.20
231	W5	34	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	243	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	260	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	458	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	524	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	1810	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	2124	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	2205	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	2218	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	2920	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	3141	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	3567	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	4086	DC	OP1-P-O3'	7.18	121.00	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4650	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	4748	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	4976	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	5200	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	5299	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	5899	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	6063	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	6331	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	6348	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	7028	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	7186	DC	OP1-P-O3'	7.18	121.00	105.20
24	BC	28	DG	OP2-P-O3'	7.18	121.00	105.20
55	E9	38	DG	OP2-P-O3'	7.18	121.00	105.20
55	E9	40	DC	OP1-P-O3'	7.18	121.00	105.20
73	G5	8	DG	OP2-P-O3'	7.18	121.00	105.20
90	HC	25	DG	OP2-P-O3'	7.18	121.00	105.20
91	HD	18	DC	OP1-P-O3'	7.18	121.00	105.20
94	I3	43	DG	OP2-P-O3'	7.18	121.00	105.20
102	ID	24	DG	OP2-P-O3'	7.18	121.00	105.20
137	M3	13	DG	OP2-P-O3'	7.18	121.00	105.20
160	O7	16	DG	OP2-P-O3'	7.18	121.00	105.20
166	P2	10	DC	OP1-P-O3'	7.18	121.00	105.20
167	P3	2	DC	OP1-P-O3'	7.18	121.00	105.20
179	Q7	25	DG	OP2-P-O3'	7.18	121.00	105.20
213	U3	4	DC	OP1-P-O3'	7.18	121.00	105.20
219	UC	31	DG	OP2-P-O3'	7.18	121.00	105.20
220	UD	7	DG	OP2-P-O3'	7.18	121.00	105.20
236	X5	18	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	1407	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	2083	DC	OP1-P-O3'	7.18	121.00	105.20
11	AB	5743	DG	OP2-P-O3'	7.18	121.00	105.20
14	B1	8	DC	OP1-P-O3'	7.18	121.00	105.20
94	I3	19	DC	OP1-P-O3'	7.18	121.00	105.20
110	J9	19	DC	OP1-P-O3'	7.18	121.00	105.20
117	K5	17	DG	OP2-P-O3'	7.18	121.00	105.20
161	O8	9	DG	OP2-P-O3'	7.18	121.00	105.20
181	Q9	2	DG	OP2-P-O3'	7.18	121.00	105.20
183	QC	19	DG	OP2-P-O3'	7.18	121.00	105.20
192	RC	27	DC	OP1-P-O3'	7.18	121.00	105.20
200	SA	25	DC	OP1-P-O3'	7.18	121.00	105.20
8	A8	10	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	82	DG	OP2-P-O3'	7.18	121.00	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1116	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	1227	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	2826	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	3727	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	3780	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4111	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4311	DG	OP2-P-O3'	7.18	121.00	105.20
11	AB	5086	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	5578	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	7077	DC	OP1-P-O3'	7.18	121.00	105.20
24	BC	6	DG	OP2-P-O3'	7.18	120.99	105.20
24	BC	23	DG	OP2-P-O3'	7.18	120.99	105.20
35	CC	17	DC	OP1-P-O3'	7.18	121.00	105.20
66	F9	19	DG	OP2-P-O3'	7.18	121.00	105.20
72	G3	25	DC	OP1-P-O3'	7.18	120.99	105.20
79	GC	11	DC	OP1-P-O3'	7.18	121.00	105.20
83	H3	11	DG	OP2-P-O3'	7.18	120.99	105.20
83	H3	36	DC	OP1-P-O3'	7.18	120.99	105.20
89	HA	13	DG	OP2-P-O3'	7.18	120.99	105.20
111	JA	9	DC	OP1-P-O3'	7.18	120.99	105.20
118	K6	18	DG	OP2-P-O3'	7.18	121.00	105.20
119	K7	1	DG	OP2-P-O3'	7.18	120.99	105.20
121	K9	9	DG	OP2-P-O3'	7.18	121.00	105.20
133	LA	18	DC	OP1-P-O3'	7.18	121.00	105.20
150	N7	12	DC	OP1-P-O3'	7.18	121.00	105.20
159	O6	6	DC	OP1-P-O3'	7.18	121.00	105.20
182	QA	5	DC	OP1-P-O3'	7.18	120.99	105.20
205	T5	22	DG	OP2-P-O3'	7.18	121.00	105.20
227	VA	5	DG	OP2-P-O3'	7.18	120.99	105.20
227	VA	23	DC	OP1-P-O3'	7.18	120.99	105.20
9	A9	8	DG	OP2-P-O3'	7.18	120.99	105.20
10	AA	10	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	792	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	1820	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	2976	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	3421	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	3912	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4089	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4117	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4132	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4331	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4488	DC	OP1-P-O3'	7.18	120.99	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4582	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4942	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	5018	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	6572	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	6723	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	7168	DC	OP1-P-O3'	7.18	120.99	105.20
18	B5	13	DG	OP2-P-O3'	7.18	120.99	105.20
39	D3	9	DC	OP1-P-O3'	7.18	120.99	105.20
59	F1	1	DC	OP1-P-O3'	7.18	120.99	105.20
73	G5	13	DC	OP1-P-O3'	7.18	120.99	105.20
113	JD	25	DC	OP1-P-O3'	7.18	120.99	105.20
125	L1	50	DG	OP2-P-O3'	7.18	120.99	105.20
132	L9	13	DC	OP1-P-O3'	7.18	120.99	105.20
225	V8	13	DG	OP2-P-O3'	7.18	120.99	105.20
1	A1	52	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	100	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	984	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	1348	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	1738	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	1751	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	2055	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	2077	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	2886	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	2995	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	3019	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	3237	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	3406	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	3610	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	3633	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	4289	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4321	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4343	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4603	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	4671	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	5071	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	5095	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	5592	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	6208	DG	OP2-P-O3'	7.18	120.99	105.20
11	AB	6580	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	6848	DC	OP1-P-O3'	7.18	120.99	105.20
11	AB	6996	DC	OP1-P-O3'	7.18	120.99	105.20
27	C2	9	DG	OP2-P-O3'	7.18	120.99	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	C8	32	DG	OP2-P-O3'	7.18	120.99	105.20
84	H5	2	DC	OP1-P-O3'	7.18	120.99	105.20
90	HC	27	DG	OP2-P-O3'	7.18	120.99	105.20
94	I3	46	DC	OP1-P-O3'	7.18	120.99	105.20
97	I7	33	DG	OP2-P-O3'	7.18	120.99	105.20
104	J2	1	DG	OP2-P-O3'	7.18	120.99	105.20
106	J5	20	DC	OP1-P-O3'	7.18	120.99	105.20
136	M2	8	DG	OP2-P-O3'	7.18	120.99	105.20
137	M3	25	DC	OP1-P-O3'	7.18	120.99	105.20
143	MA	10	DC	OP1-P-O3'	7.18	120.99	105.20
147	N3	18	DC	OP1-P-O3'	7.18	120.99	105.20
153	NA	6	DC	OP1-P-O3'	7.18	120.99	105.20
156	O2	53	DC	OP1-P-O3'	7.18	120.99	105.20
163	OA	4	DG	OP2-P-O3'	7.18	120.99	105.20
174	PC	6	DC	OP1-P-O3'	7.18	120.99	105.20
194	S2	11	DC	OP1-P-O3'	7.18	120.99	105.20
199	S9	18	DG	OP2-P-O3'	7.18	120.99	105.20
206	T7	7	DG	OP2-P-O3'	7.18	120.99	105.20
229	VD	4	DC	OP1-P-O3'	7.18	120.99	105.20
4	A4	8	DG	OP2-P-O3'	7.17	120.98	105.20
10	AA	21	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	329	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	1190	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	2145	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	2372	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	2523	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	2628	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	3175	DG	OP2-P-O3'	7.17	120.99	105.20
11	AB	3364	DG	OP2-P-O3'	7.17	120.99	105.20
11	AB	3381	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	3543	DC	OP1-P-O3'	7.17	120.99	105.20
11	AB	3814	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	4411	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	4485	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	4644	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	4867	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	5122	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	5128	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	5166	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	5474	DG	OP2-P-O3'	7.17	120.99	105.20
11	AB	5703	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	6169	DC	OP1-P-O3'	7.17	120.98	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6433	DC	OP1-P-O3'	7.17	120.98	105.20
22	B9	24	DG	OP2-P-O3'	7.17	120.98	105.20
28	C3	23	DC	OP1-P-O3'	7.17	120.98	105.20
52	E6	32	DC	OP1-P-O3'	7.17	120.98	105.20
55	E9	17	DC	OP1-P-O3'	7.17	120.98	105.20
72	G3	10	DC	OP1-P-O3'	7.17	120.98	105.20
103	J1	9	DG	OP2-P-O3'	7.17	120.98	105.20
107	J6	34	DC	OP1-P-O3'	7.17	120.98	105.20
114	K1	10	DG	OP2-P-O3'	7.17	120.98	105.20
123	KC	20	DC	OP1-P-O3'	7.17	120.98	105.20
136	M2	7	DC	OP1-P-O3'	7.17	120.98	105.20
148	N5	11	DC	OP1-P-O3'	7.17	120.98	105.20
149	N6	26	DG	OP2-P-O3'	7.17	120.98	105.20
151	N8	11	DG	OP2-P-O3'	7.17	120.98	105.20
169	P6	6	DC	OP1-P-O3'	7.17	120.98	105.20
178	Q5	8	DC	OP1-P-O3'	7.17	120.98	105.20
217	U9	19	DC	OP1-P-O3'	7.17	120.98	105.20
224	V7	15	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	140	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	285	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	2615	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	3892	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	4017	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	4104	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	4255	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	4541	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	4632	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	4800	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	4883	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	5257	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	5686	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	6022	DG	OP2-P-O3'	7.17	120.98	105.20
11	AB	6444	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	6911	DC	OP1-P-O3'	7.17	120.98	105.20
21	B8	11	DC	OP1-P-O3'	7.17	120.98	105.20
37	D1	10	DC	OP1-P-O3'	7.17	120.98	105.20
43	D8	39	DC	OP1-P-O3'	7.17	120.98	105.20
95	I5	38	DG	OP2-P-O3'	7.17	120.98	105.20
99	I9	26	DC	OP1-P-O3'	7.17	120.98	105.20
149	N6	35	DC	OP1-P-O3'	7.17	120.98	105.20
161	O8	27	DC	OP1-P-O3'	7.17	120.98	105.20
163	OA	3	DC	OP1-P-O3'	7.17	120.98	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
181	Q9	15	DC	OP1-P-O3'	7.17	120.98	105.20
203	T2	21	DC	OP1-P-O3'	7.17	120.98	105.20
223	V5	2	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	15	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	443	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	860	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	1255	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	1449	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	1913	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	2925	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	3565	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	4870	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	5440	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	6430	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	6787	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	6881	DC	OP1-P-O3'	7.17	120.98	105.20
13	AD	15	DC	OP1-P-O3'	7.17	120.97	105.20
35	CC	27	DC	OP1-P-O3'	7.17	120.98	105.20
43	D8	37	DG	OP2-P-O3'	7.17	120.98	105.20
45	DA	22	DG	OP2-P-O3'	7.17	120.97	105.20
47	DD	45	DC	OP1-P-O3'	7.17	120.98	105.20
50	E3	3	DC	OP1-P-O3'	7.17	120.98	105.20
53	E7	12	DC	OP1-P-O3'	7.17	120.98	105.20
69	FD	40	DG	OP2-P-O3'	7.17	120.98	105.20
76	G8	14	DC	OP1-P-O3'	7.17	120.98	105.20
79	GC	16	DC	OP1-P-O3'	7.17	120.98	105.20
83	H3	19	DG	OP2-P-O3'	7.17	120.98	105.20
93	I2	18	DC	OP1-P-O3'	7.17	120.98	105.20
93	I2	29	DC	OP1-P-O3'	7.17	120.98	105.20
115	K2	10	DC	OP1-P-O3'	7.17	120.98	105.20
115	K2	36	DC	OP1-P-O3'	7.17	120.98	105.20
120	K8	10	DG	OP2-P-O3'	7.17	120.98	105.20
139	M6	20	DC	OP1-P-O3'	7.17	120.98	105.20
145	MD	14	DC	OP1-P-O3'	7.17	120.98	105.20
169	P6	11	DC	OP1-P-O3'	7.17	120.98	105.20
173	PA	35	DC	OP1-P-O3'	7.17	120.98	105.20
182	QA	23	DC	OP1-P-O3'	7.17	120.98	105.20
198	S8	34	DG	OP2-P-O3'	7.17	120.98	105.20
218	UA	11	DG	OP2-P-O3'	7.17	120.98	105.20
232	W7	22	DC	OP1-P-O3'	7.17	120.98	105.20
11	AB	2525	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	2715	DG	OP2-P-O3'	7.17	120.97	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3490	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	4211	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	4247	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	4461	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	4880	DC	OP1-P-O3'	7.17	120.97	105.20
28	C3	7	DC	OP1-P-O3'	7.17	120.97	105.20
37	D1	12	DG	OP2-P-O3'	7.17	120.97	105.20
38	D2	1	DG	OP2-P-O3'	7.17	120.97	105.20
96	I6	4	DC	OP1-P-O3'	7.17	120.97	105.20
116	K3	6	DG	OP2-P-O3'	7.17	120.97	105.20
119	K7	8	DC	OP1-P-O3'	7.17	120.97	105.20
182	QA	1	DC	OP1-P-O3'	7.17	120.97	105.20
202	SD	5	DC	OP1-P-O3'	7.17	120.97	105.20
238	X9	54	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	288	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	428	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	479	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	535	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	823	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	929	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	1335	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	1926	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	2027	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	2063	DG	OP2-P-O3'	7.17	120.97	105.20
11	AB	2208	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	2545	DG	OP2-P-O3'	7.17	120.97	105.20
11	AB	3679	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	4028	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	4174	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	4481	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	5656	DG	OP2-P-O3'	7.17	120.97	105.20
11	AB	5845	DG	OP2-P-O3'	7.17	120.97	105.20
11	AB	5863	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	6981	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	7090	DC	OP1-P-O3'	7.17	120.97	105.20
58	ED	36	DC	OP1-P-O3'	7.17	120.97	105.20
70	G1	7	DC	OP1-P-O3'	7.17	120.97	105.20
94	I3	56	DC	OP1-P-O3'	7.17	120.97	105.20
98	I8	35	DG	OP2-P-O3'	7.17	120.97	105.20
102	ID	21	DG	OP2-P-O3'	7.17	120.97	105.20
104	J2	11	DC	OP1-P-O3'	7.17	120.97	105.20
143	MA	13	DC	OP1-P-O3'	7.17	120.97	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
143	MA	44	DC	OP1-P-O3'	7.17	120.97	105.20
147	N3	24	DC	OP1-P-O3'	7.17	120.97	105.20
154	NC	25	DC	OP1-P-O3'	7.17	120.97	105.20
156	O2	38	DC	OP1-P-O3'	7.17	120.97	105.20
187	R5	9	DC	OP1-P-O3'	7.17	120.97	105.20
194	S2	12	DG	OP2-P-O3'	7.17	120.97	105.20
196	S5	8	DC	OP1-P-O3'	7.17	120.97	105.20
199	S9	21	DC	OP1-P-O3'	7.17	120.97	105.20
206	T7	20	DC	OP1-P-O3'	7.17	120.97	105.20
212	U2	19	DC	OP1-P-O3'	7.17	120.97	105.20
217	U9	22	DC	OP1-P-O3'	7.17	120.97	105.20
10	AA	19	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	658	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	1390	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	1723	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	2414	DC	OP1-P-O3'	7.17	120.96	105.20
11	AB	3954	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	3984	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	4144	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	4183	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	5409	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	5555	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	5560	DG	OP2-P-O3'	7.17	120.97	105.20
11	AB	5956	DG	OP2-P-O3'	7.17	120.97	105.20
11	AB	6645	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	6939	DC	OP1-P-O3'	7.17	120.97	105.20
11	AB	7201	DC	OP1-P-O3'	7.17	120.97	105.20
12	AC	19	DC	OP1-P-O3'	7.17	120.97	105.20
58	ED	30	DC	OP1-P-O3'	7.17	120.97	105.20
61	F3	10	DG	OP2-P-O3'	7.17	120.97	105.20
61	F3	13	DG	OP2-P-O3'	7.17	120.97	105.20
66	F9	14	DC	OP1-P-O3'	7.17	120.97	105.20
78	GA	1	DC	OP1-P-O3'	7.17	120.97	105.20
84	H5	9	DG	OP2-P-O3'	7.17	120.97	105.20
93	I2	22	DG	OP2-P-O3'	7.17	120.97	105.20
112	JC	3	DC	OP1-P-O3'	7.17	120.97	105.20
165	OD	50	DC	OP1-P-O3'	7.17	120.97	105.20
179	Q7	12	DC	OP1-P-O3'	7.17	120.97	105.20
183	QC	18	DC	OP1-P-O3'	7.17	120.97	105.20
186	R3	18	DC	OP1-P-O3'	7.17	120.97	105.20
190	R9	44	DC	OP1-P-O3'	7.17	120.97	105.20
206	T7	50	DG	OP2-P-O3'	7.17	120.97	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
211	TD	38	DC	OP1-P-O3'	7.17	120.97	105.20
220	UD	6	DC	OP1-P-O3'	7.17	120.97	105.20
227	VA	21	DC	OP1-P-O3'	7.17	120.97	105.20
9	A9	6	DG	OP2-P-O3'	7.17	120.96	105.20
11	AB	81	DC	OP1-P-O3'	7.17	120.96	105.20
11	AB	891	DG	OP2-P-O3'	7.17	120.96	105.20
11	AB	944	DC	OP1-P-O3'	7.17	120.96	105.20
11	AB	1460	DC	OP1-P-O3'	7.17	120.96	105.20
11	AB	1604	DG	OP2-P-O3'	7.17	120.96	105.20
11	AB	2012	DC	OP1-P-O3'	7.17	120.96	105.20
11	AB	5034	DC	OP1-P-O3'	7.17	120.96	105.20
11	AB	6186	DC	OP1-P-O3'	7.17	120.96	105.20
11	AB	6278	DC	OP1-P-O3'	7.17	120.96	105.20
11	AB	7242	DC	OP1-P-O3'	7.17	120.96	105.20
104	J2	25	DC	OP1-P-O3'	7.17	120.96	105.20
177	Q3	18	DC	OP1-P-O3'	7.17	120.96	105.20
205	T5	1	DC	OP1-P-O3'	7.17	120.96	105.20
11	AB	149	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	1019	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	1612	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	2454	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	2940	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	3167	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	4430	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	4516	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	4610	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	4730	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	5261	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	6145	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	6330	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	6708	DC	OP1-P-O3'	7.16	120.96	105.20
14	B1	38	DC	OP1-P-O3'	7.16	120.96	105.20
25	BD	10	DG	OP2-P-O3'	7.16	120.96	105.20
42	D7	13	DC	OP1-P-O3'	7.16	120.96	105.20
52	E6	15	DC	OP1-P-O3'	7.16	120.96	105.20
58	ED	8	DC	OP1-P-O3'	7.16	120.96	105.20
60	F2	23	DC	OP1-P-O3'	7.16	120.96	105.20
69	FD	43	DC	OP1-P-O3'	7.16	120.96	105.20
98	I8	31	DC	OP1-P-O3'	7.16	120.96	105.20
128	L5	3	DC	OP1-P-O3'	7.16	120.96	105.20
138	M5	32	DG	OP2-P-O3'	7.16	120.96	105.20
150	N7	19	DC	OP1-P-O3'	7.16	120.96	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
156	O2	17	DC	OP1-P-O3'	7.16	120.96	105.20
182	QA	17	DC	OP1-P-O3'	7.16	120.96	105.20
186	R3	12	DC	OP1-P-O3'	7.16	120.96	105.20
187	R5	19	DC	OP1-P-O3'	7.16	120.96	105.20
201	SC	18	DC	OP1-P-O3'	7.16	120.96	105.20
211	TD	9	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	1283	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	2237	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	3524	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	3730	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	4062	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	4397	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	5046	DC	OP1-P-O3'	7.16	120.96	105.20
72	G3	13	DC	OP1-P-O3'	7.16	120.96	105.20
87	H8	18	DC	OP1-P-O3'	7.16	120.96	105.20
110	J9	14	DC	OP1-P-O3'	7.16	120.96	105.20
125	L1	5	DC	OP1-P-O3'	7.16	120.96	105.20
204	T3	13	DC	OP1-P-O3'	7.16	120.96	105.20
206	T7	1	DC	OP1-P-O3'	7.16	120.96	105.20
11	AB	43	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	52	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	203	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	1039	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	1980	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	1998	DG	OP2-P-O3'	7.16	120.95	105.20
11	AB	2590	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4003	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4075	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4655	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4806	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4975	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	5865	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	6157	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	6478	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	7123	DG	OP2-P-O3'	7.16	120.95	105.20
14	B1	31	DC	OP1-P-O3'	7.16	120.95	105.20
56	EA	19	DC	OP1-P-O3'	7.16	120.95	105.20
79	GC	2	DC	OP1-P-O3'	7.16	120.95	105.20
85	H6	28	DC	OP1-P-O3'	7.16	120.95	105.20
91	HD	24	DC	OP1-P-O3'	7.16	120.95	105.20
115	K2	19	DC	OP1-P-O3'	7.16	120.95	105.20
163	OA	11	DC	OP1-P-O3'	7.16	120.95	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
166	P2	20	DC	OP1-P-O3'	7.16	120.95	105.20
214	U5	26	DC	OP1-P-O3'	7.16	120.95	105.20
217	U9	24	DG	OP2-P-O3'	7.16	120.95	105.20
225	V8	21	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	293	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	884	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	1266	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	2340	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	3229	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	3756	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4072	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4601	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4819	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4919	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4960	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	5052	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	5178	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	5214	DC	OP1-P-O3'	7.16	120.95	105.20
38	D2	16	DC	OP1-P-O3'	7.16	120.95	105.20
97	I7	7	DC	OP1-P-O3'	7.16	120.95	105.20
110	J9	17	DC	OP1-P-O3'	7.16	120.95	105.20
120	K8	7	DC	OP1-P-O3'	7.16	120.95	105.20
158	O5	48	DC	OP1-P-O3'	7.16	120.95	105.20
179	Q7	6	DC	OP1-P-O3'	7.16	120.95	105.20
191	RA	25	DC	OP1-P-O3'	7.16	120.95	105.20
214	U5	6	DC	OP1-P-O3'	7.16	120.95	105.20
218	UA	10	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	365	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	521	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	1196	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	1668	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	3291	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	3457	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	4836	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4952	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	4970	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	5454	DC	OP1-P-O3'	7.16	120.95	105.20
11	AB	6906	DC	OP1-P-O3'	7.16	120.95	105.20
43	D8	24	DC	OP1-P-O3'	7.16	120.95	105.20
51	E5	6	DC	OP1-P-O3'	7.16	120.95	105.20
55	E9	21	DC	OP1-P-O3'	7.16	120.94	105.20
88	H9	19	DC	OP1-P-O3'	7.16	120.95	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	O7	11	DC	OP1-P-O3'	7.16	120.94	105.20
161	O8	50	DC	OP1-P-O3'	7.16	120.94	105.20
176	Q2	14	DC	OP1-P-O3'	7.16	120.95	105.20
179	Q7	24	DC	OP1-P-O3'	7.16	120.94	105.20
197	S7	5	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	40	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	93	DG	OP2-P-O3'	7.16	120.94	105.20
11	AB	167	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	350	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	762	DG	OP2-P-O3'	7.16	120.94	105.20
11	AB	2655	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	2717	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	3474	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	4041	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	4084	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	5133	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	6167	DC	OP1-P-O3'	7.16	120.94	105.20
20	B7	8	DC	OP1-P-O3'	7.16	120.94	105.20
33	C9	5	DC	OP1-P-O3'	7.16	120.94	105.20
42	D7	17	DC	OP1-P-O3'	7.16	120.94	105.20
86	H7	23	DC	OP1-P-O3'	7.16	120.94	105.20
94	I3	28	DC	OP1-P-O3'	7.16	120.94	105.20
98	I8	38	DC	OP1-P-O3'	7.16	120.94	105.20
109	J8	43	DC	OP1-P-O3'	7.16	120.94	105.20
131	L8	24	DC	OP1-P-O3'	7.16	120.94	105.20
164	OC	10	DC	OP1-P-O3'	7.16	120.94	105.20
207	T8	21	DC	OP1-P-O3'	7.16	120.94	105.20
216	U8	13	DC	OP1-P-O3'	7.16	120.94	105.20
11	AB	1088	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	1814	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	4302	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	5011	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	6900	DC	OP1-P-O3'	7.15	120.94	105.20
22	B9	11	DG	OP2-P-O3'	7.15	120.94	105.20
25	BD	9	DC	OP1-P-O3'	7.15	120.94	105.20
33	C9	19	DC	OP1-P-O3'	7.15	120.94	105.20
65	F8	10	DC	OP1-P-O3'	7.15	120.94	105.20
121	K9	24	DC	OP1-P-O3'	7.15	120.94	105.20
145	MD	32	DC	OP1-P-O3'	7.15	120.94	105.20
147	N3	6	DC	OP1-P-O3'	7.15	120.94	105.20
232	W7	18	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	546	DG	OP2-P-O3'	7.15	120.94	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	950	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	1118	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	2297	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	3959	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	4060	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	4313	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	5175	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	6610	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	6916	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	6998	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	7156	DC	OP1-P-O3'	7.15	120.93	105.20
30	C6	32	DC	OP1-P-O3'	7.15	120.93	105.20
49	E2	39	DC	OP1-P-O3'	7.15	120.93	105.20
51	E5	10	DC	OP1-P-O3'	7.15	120.94	105.20
59	F1	17	DC	OP1-P-O3'	7.15	120.94	105.20
103	J1	25	DC	OP1-P-O3'	7.15	120.94	105.20
113	JD	32	DC	OP1-P-O3'	7.15	120.94	105.20
116	K3	5	DC	OP1-P-O3'	7.15	120.94	105.20
126	L2	35	DC	OP1-P-O3'	7.15	120.94	105.20
143	MA	39	DC	OP1-P-O3'	7.15	120.94	105.20
152	N9	25	DC	OP1-P-O3'	7.15	120.94	105.20
178	Q5	37	DC	OP1-P-O3'	7.15	120.93	105.20
198	S8	33	DC	OP1-P-O3'	7.15	120.93	105.20
204	T3	22	DC	OP1-P-O3'	7.15	120.94	105.20
209	TA	28	DC	OP1-P-O3'	7.15	120.94	105.20
223	V5	5	DC	OP1-P-O3'	7.15	120.94	105.20
11	AB	914	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	2714	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	3528	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	3889	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	4153	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	5324	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	7173	DC	OP1-P-O3'	7.15	120.93	105.20
103	J1	23	DC	OP1-P-O3'	7.15	120.93	105.20
199	S9	9	DC	OP1-P-O3'	7.15	120.93	105.20
200	SA	7	DC	OP1-P-O3'	7.15	120.93	105.20
209	TA	24	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	5202	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	6217	DC	OP1-P-O3'	7.15	120.93	105.20
102	ID	2	DG	OP2-P-O3'	7.15	120.93	105.20
11	AB	749	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	1659	DC	OP1-P-O3'	7.15	120.92	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1904	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	1921	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	2539	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	2673	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	3211	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	4035	DC	OP1-P-O3'	7.15	120.93	105.20
11	AB	4196	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	5149	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	5345	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	5742	DC	OP1-P-O3'	7.15	120.93	105.20
22	B9	33	DC	OP1-P-O3'	7.15	120.93	105.20
23	BA	9	DC	OP1-P-O3'	7.15	120.92	105.20
30	C6	40	DC	OP1-P-O3'	7.15	120.93	105.20
38	D2	13	DC	OP1-P-O3'	7.15	120.92	105.20
41	D6	26	DC	OP1-P-O3'	7.15	120.92	105.20
69	FD	45	DC	OP1-P-O3'	7.15	120.92	105.20
153	NA	16	DC	OP1-P-O3'	7.15	120.93	105.20
175	PD	19	DC	OP1-P-O3'	7.15	120.92	105.20
191	RA	14	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	1100	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	4106	DC	OP1-P-O3'	7.15	120.92	105.20
11	AB	5098	DC	OP1-P-O3'	7.15	120.92	105.20
45	DA	19	DC	OP1-P-O3'	7.15	120.92	105.20
106	J5	32	DC	OP1-P-O3'	7.15	120.92	105.20
1	A1	28	DC	OP1-P-O3'	7.14	120.92	105.20
11	AB	1468	DC	OP1-P-O3'	7.14	120.92	105.20
11	AB	1897	DC	OP1-P-O3'	7.14	120.92	105.20
11	AB	2884	DC	OP1-P-O3'	7.14	120.92	105.20
11	AB	4573	DC	OP1-P-O3'	7.14	120.92	105.20
11	AB	5945	DC	OP1-P-O3'	7.14	120.92	105.20
11	AB	6336	DC	OP1-P-O3'	7.14	120.92	105.20
47	DD	5	DC	OP1-P-O3'	7.14	120.92	105.20
159	O6	9	DC	OP1-P-O3'	7.14	120.92	105.20
168	P5	2	DC	OP1-P-O3'	7.14	120.92	105.20
170	P7	17	DG	OP2-P-O3'	7.14	120.92	105.20
218	UA	15	DC	OP1-P-O3'	7.14	120.92	105.20
11	AB	272	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	496	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	2036	DC	OP1-P-O3'	7.14	120.92	105.20
11	AB	2919	DC	OP1-P-O3'	7.14	120.92	105.20
11	AB	4812	DC	OP1-P-O3'	7.14	120.91	105.20
33	C9	12	DC	OP1-P-O3'	7.14	120.91	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	D9	29	DC	OP1-P-O3'	7.14	120.91	105.20
48	E1	13	DC	OP1-P-O3'	7.14	120.91	105.20
52	E6	6	DC	OP1-P-O3'	7.14	120.91	105.20
93	I2	40	DC	OP1-P-O3'	7.14	120.91	105.20
130	L7	29	DC	OP1-P-O3'	7.14	120.91	105.20
144	MC	3	DC	OP1-P-O3'	7.14	120.91	105.20
173	PA	37	DC	OP1-P-O3'	7.14	120.91	105.20
211	TD	40	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	7	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	2876	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	3813	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	4186	DC	OP1-P-O3'	7.14	120.91	105.20
70	G1	15	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	627	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	767	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	1076	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	3722	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	3878	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	4903	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	5199	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	6764	DC	OP1-P-O3'	7.14	120.91	105.20
23	BA	15	DC	OP1-P-O3'	7.14	120.91	105.20
94	I3	49	DC	OP1-P-O3'	7.14	120.91	105.20
97	I7	32	DC	OP1-P-O3'	7.14	120.91	105.20
102	ID	31	DC	OP1-P-O3'	7.14	120.91	105.20
119	K7	28	DC	OP1-P-O3'	7.14	120.91	105.20
139	M6	18	DC	OP1-P-O3'	7.14	120.91	105.20
178	Q5	4	DC	OP1-P-O3'	7.14	120.91	105.20
204	T3	43	DC	OP1-P-O3'	7.14	120.91	105.20
209	TA	13	DC	OP1-P-O3'	7.14	120.91	105.20
11	AB	1124	DC	OP1-P-O3'	7.14	120.90	105.20
11	AB	2312	DC	OP1-P-O3'	7.14	120.90	105.20
11	AB	2450	DC	OP1-P-O3'	7.14	120.90	105.20
11	AB	6832	DC	OP1-P-O3'	7.14	120.90	105.20
97	I7	10	DC	OP1-P-O3'	7.14	120.90	105.20
11	AB	5682	DC	OP1-P-O3'	7.14	120.90	105.20
209	TA	17	DC	OP1-P-O3'	7.14	120.90	105.20
11	AB	4997	DC	OP1-P-O3'	7.13	120.89	105.20
24	BC	10	DC	OP1-P-O3'	7.13	120.90	105.20
25	BD	6	DC	OP1-P-O3'	7.13	120.90	105.20
109	J8	41	DC	OP1-P-O3'	7.13	120.89	105.20
195	S3	6	DC	OP1-P-O3'	7.13	120.90	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
220	UD	18	DC	OP1-P-O3'	7.13	120.90	105.20
11	AB	5259	DC	OP1-P-O3'	7.13	120.89	105.20
11	AB	7011	DC	OP1-P-O3'	7.13	120.89	105.20
68	FC	6	DC	OP1-P-O3'	7.13	120.89	105.20
238	X9	2	DC	OP1-P-O3'	7.13	120.89	105.20
11	AB	5278	DC	OP1-P-O3'	7.13	120.89	105.20
11	AB	998	DC	OP1-P-O3'	7.13	120.88	105.20
11	AB	4179	DC	OP1-P-O3'	7.13	120.88	105.20
221	V2	6	DC	OP1-P-O3'	7.13	120.88	105.20
11	AB	5066	DG	OP2-P-O3'	7.12	120.88	105.20
54	E8	27	DC	OP1-P-O3'	7.12	120.88	105.20
79	GC	13	DC	OP1-P-O3'	7.12	120.87	105.20
47	DD	33	DC	OP1-P-O3'	7.12	120.86	105.20
11	AB	317	DG	OP2-P-O3'	7.11	120.85	105.20
11	AB	735	DG	OP2-P-O3'	7.09	120.80	105.20
11	AB	2592	DG	OP2-P-O3'	7.08	120.78	105.20
11	AB	2360	DG	OP2-P-O3'	7.08	120.78	105.20
11	AB	1260	DG	OP2-P-O3'	7.06	120.73	105.20
98	I8	39	DG	OP2-P-O3'	6.83	120.22	105.20
168	P5	15	DG	OP2-P-O3'	6.81	120.19	105.20
163	OA	12	DG	OP2-P-O3'	6.81	120.19	105.20
79	GC	18	DG	OP2-P-O3'	6.81	120.18	105.20
3	A3	17	DG	OP2-P-O3'	6.81	120.18	105.20
47	DD	6	DG	OP2-P-O3'	6.81	120.18	105.20
11	AB	409	DG	OP2-P-O3'	6.80	120.17	105.20
11	AB	5099	DG	OP2-P-O3'	6.80	120.17	105.20
45	DA	9	DG	OP2-P-O3'	6.80	120.17	105.20
11	AB	6878	DG	OP2-P-O3'	6.80	120.17	105.20
44	D9	7	DG	OP2-P-O3'	6.80	120.17	105.20
152	N9	45	DG	OP2-P-O3'	6.80	120.16	105.20
156	O2	59	DG	OP2-P-O3'	6.80	120.17	105.20
11	AB	3013	DG	OP2-P-O3'	6.80	120.16	105.20
21	B8	26	DG	OP2-P-O3'	6.80	120.16	105.20
1	A1	4	DG	OP2-P-O3'	6.80	120.15	105.20
11	AB	1315	DG	OP2-P-O3'	6.80	120.15	105.20
11	AB	4604	DG	OP2-P-O3'	6.80	120.15	105.20
33	C9	20	DG	OP2-P-O3'	6.80	120.15	105.20
11	AB	375	DG	OP2-P-O3'	6.79	120.15	105.20
11	AB	2962	DG	OP2-P-O3'	6.79	120.15	105.20
11	AB	7169	DG	OP2-P-O3'	6.79	120.15	105.20
72	G3	4	DG	OP2-P-O3'	6.79	120.15	105.20
144	MC	13	DG	OP2-P-O3'	6.79	120.15	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	223	DG	OP2-P-O3'	6.79	120.15	105.20
11	AB	1408	DG	OP2-P-O3'	6.79	120.15	105.20
11	AB	2096	DG	OP2-P-O3'	6.79	120.15	105.20
11	AB	3181	DG	OP2-P-O3'	6.79	120.15	105.20
11	AB	6357	DG	OP2-P-O3'	6.79	120.14	105.20
32	C8	42	DG	OP2-P-O3'	6.79	120.14	105.20
69	FD	9	DG	OP2-P-O3'	6.79	120.14	105.20
164	OC	26	DG	OP2-P-O3'	6.79	120.15	105.20
227	VA	24	DG	OP2-P-O3'	6.79	120.15	105.20
11	AB	2056	DG	OP2-P-O3'	6.79	120.14	105.20
11	AB	4112	DG	OP2-P-O3'	6.79	120.14	105.20
11	AB	4884	DG	OP2-P-O3'	6.79	120.14	105.20
11	AB	5048	DG	OP2-P-O3'	6.79	120.14	105.20
176	Q2	15	DG	OP2-P-O3'	6.79	120.14	105.20
188	R7	3	DG	OP2-P-O3'	6.79	120.14	105.20
11	AB	2022	DG	OP2-P-O3'	6.79	120.14	105.20
180	Q8	26	DG	OP2-P-O3'	6.79	120.14	105.20
11	AB	2139	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	3163	DG	OP2-P-O3'	6.79	120.14	105.20
11	AB	4284	DG	OP2-P-O3'	6.79	120.14	105.20
11	AB	6577	DG	OP2-P-O3'	6.79	120.14	105.20
11	AB	6817	DG	OP2-P-O3'	6.79	120.14	105.20
35	CC	18	DG	OP2-P-O3'	6.79	120.14	105.20
68	FC	14	DG	OP2-P-O3'	6.79	120.13	105.20
78	GA	8	DG	OP2-P-O3'	6.79	120.13	105.20
91	HD	26	DG	OP2-P-O3'	6.79	120.14	105.20
216	U8	5	DG	OP2-P-O3'	6.79	120.13	105.20
219	UC	18	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	4042	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	4344	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	6137	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	6245	DG	OP2-P-O3'	6.79	120.13	105.20
145	MD	15	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	731	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	1257	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	2818	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	3208	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	3247	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	3757	DG	OP2-P-O3'	6.79	120.13	105.20
21	B8	12	DG	OP2-P-O3'	6.79	120.13	105.20
46	DC	14	DG	OP2-P-O3'	6.79	120.13	105.20
53	E7	1	DG	OP2-P-O3'	6.79	120.13	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	EA	5	DG	OP2-P-O3'	6.79	120.13	105.20
111	JA	10	DG	OP2-P-O3'	6.79	120.13	105.20
152	N9	41	DG	OP2-P-O3'	6.79	120.13	105.20
11	AB	2956	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	3518	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	3824	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	4092	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	4904	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	5448	DG	OP2-P-O3'	6.78	120.13	105.20
19	B6	17	DG	OP2-P-O3'	6.78	120.12	105.20
22	B9	17	DG	OP2-P-O3'	6.78	120.12	105.20
55	E9	43	DG	OP2-P-O3'	6.78	120.12	105.20
149	N6	24	DG	OP2-P-O3'	6.78	120.12	105.20
154	NC	35	DG	OP2-P-O3'	6.78	120.12	105.20
173	PA	18	DG	OP2-P-O3'	6.78	120.12	105.20
204	T3	18	DG	OP2-P-O3'	6.78	120.12	105.20
232	W7	23	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	704	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	1677	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	2209	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	4197	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	5208	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	6100	DG	OP2-P-O3'	6.78	120.12	105.20
56	EA	15	DG	OP2-P-O3'	6.78	120.12	105.20
67	FA	6	DG	OP2-P-O3'	6.78	120.12	105.20
133	LA	19	DG	OP2-P-O3'	6.78	120.12	105.20
149	N6	21	DG	OP2-P-O3'	6.78	120.12	105.20
166	P2	13	DG	OP2-P-O3'	6.78	120.12	105.20
182	QA	24	DG	OP2-P-O3'	6.78	120.12	105.20
207	T8	19	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	150	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	346	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	874	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	1114	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	1153	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	1470	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	1489	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	2341	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	2516	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	2533	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	2607	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	3243	DG	OP2-P-O3'	6.78	120.12	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3680	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	4290	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	4685	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	5924	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	6180	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	6340	DG	OP2-P-O3'	6.78	120.12	105.20
11	AB	6857	DG	OP2-P-O3'	6.78	120.12	105.20
87	H8	15	DG	OP2-P-O3'	6.78	120.12	105.20
125	L1	45	DG	OP2-P-O3'	6.78	120.12	105.20
160	O7	8	DG	OP2-P-O3'	6.78	120.12	105.20
160	O7	43	DG	OP2-P-O3'	6.78	120.11	105.20
212	U2	20	DG	OP2-P-O3'	6.78	120.12	105.20
223	V5	32	DG	OP2-P-O3'	6.78	120.12	105.20
5	A5	39	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	1984	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	2206	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	3152	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	6775	DG	OP2-P-O3'	6.78	120.11	105.20
126	L2	17	DG	OP2-P-O3'	6.78	120.11	105.20
130	L7	10	DG	OP2-P-O3'	6.78	120.11	105.20
137	M3	26	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	714	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	925	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	1144	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	2782	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	3155	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	3525	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	4542	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	4681	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	4953	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	5837	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	6653	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	6724	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	6870	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	6874	DG	OP2-P-O3'	6.78	120.11	105.20
31	C7	23	DG	OP2-P-O3'	6.78	120.11	105.20
35	CC	28	DG	OP2-P-O3'	6.78	120.11	105.20
42	D7	9	DG	OP2-P-O3'	6.78	120.11	105.20
58	ED	37	DG	OP2-P-O3'	6.78	120.11	105.20
84	H5	14	DG	OP2-P-O3'	6.78	120.11	105.20
99	I9	14	DG	OP2-P-O3'	6.78	120.11	105.20
123	KC	12	DG	OP2-P-O3'	6.78	120.11	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	L5	1	DG	OP2-P-O3'	6.78	120.11	105.20
188	R7	25	DG	OP2-P-O3'	6.78	120.11	105.20
207	T8	9	DG	OP2-P-O3'	6.78	120.11	105.20
218	UA	16	DG	OP2-P-O3'	6.78	120.11	105.20
230	W3	13	DG	OP2-P-O3'	6.78	120.11	105.20
232	W7	12	DG	OP2-P-O3'	6.78	120.11	105.20
4	A4	25	DG	OP2-P-O3'	6.78	120.11	105.20
5	A5	41	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	584	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	1138	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	1450	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	2479	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	3476	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	3600	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	3649	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	3960	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	4180	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	4332	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	4868	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	5068	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	5279	DG	OP2-P-O3'	6.78	120.10	105.20
11	AB	5346	DG	OP2-P-O3'	6.78	120.11	105.20
23	BA	5	DG	OP2-P-O3'	6.78	120.11	105.20
36	CD	19	DG	OP2-P-O3'	6.78	120.11	105.20
51	E5	16	DG	OP2-P-O3'	6.78	120.11	105.20
67	FA	22	DG	OP2-P-O3'	6.78	120.10	105.20
69	FD	26	DG	OP2-P-O3'	6.78	120.11	105.20
72	G3	26	DG	OP2-P-O3'	6.78	120.11	105.20
80	GD	16	DG	OP2-P-O3'	6.78	120.11	105.20
95	I5	34	DG	OP2-P-O3'	6.78	120.11	105.20
100	IA	6	DG	OP2-P-O3'	6.78	120.11	105.20
102	ID	26	DG	OP2-P-O3'	6.78	120.11	105.20
129	L6	6	DG	OP2-P-O3'	6.78	120.11	105.20
148	N5	7	DG	OP2-P-O3'	6.78	120.11	105.20
152	N9	12	DG	OP2-P-O3'	6.78	120.11	105.20
155	ND	10	DG	OP2-P-O3'	6.78	120.11	105.20
158	O5	7	DG	OP2-P-O3'	6.78	120.11	105.20
223	V5	3	DG	OP2-P-O3'	6.78	120.11	105.20
234	W9	1	DG	OP2-P-O3'	6.78	120.11	105.20
11	AB	666	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	952	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	1697	DG	OP2-P-O3'	6.77	120.10	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2526	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	3361	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	3521	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	3842	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	4278	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	4743	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	6434	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	6672	DG	OP2-P-O3'	6.77	120.10	105.20
28	C3	8	DG	OP2-P-O3'	6.77	120.10	105.20
29	C5	40	DG	OP2-P-O3'	6.77	120.10	105.20
39	D3	10	DG	OP2-P-O3'	6.77	120.10	105.20
73	G5	22	DG	OP2-P-O3'	6.77	120.10	105.20
8	A8	7	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	64	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	261	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	333	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	367	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	460	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	946	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	955	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	2110	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	2173	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	2235	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	2356	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	2604	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	2932	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	3277	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	3419	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	4036	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	4094	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	5168	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	5914	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	6422	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	6760	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	6838	DG	OP2-P-O3'	6.77	120.10	105.20
23	BA	34	DG	OP2-P-O3'	6.77	120.10	105.20
31	C7	13	DG	OP2-P-O3'	6.77	120.10	105.20
33	C9	14	DG	OP2-P-O3'	6.77	120.10	105.20
66	F9	16	DG	OP2-P-O3'	6.77	120.10	105.20
115	K2	11	DG	OP2-P-O3'	6.77	120.10	105.20
117	K5	44	DG	OP2-P-O3'	6.77	120.10	105.20
144	MC	10	DG	OP2-P-O3'	6.77	120.10	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
187	R5	23	DG	OP2-P-O3'	6.77	120.10	105.20
198	S8	8	DG	OP2-P-O3'	6.77	120.10	105.20
204	T3	39	DG	OP2-P-O3'	6.77	120.10	105.20
238	X9	26	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	439	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	623	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	916	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	3466	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	3703	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	5710	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	7038	DG	OP2-P-O3'	6.77	120.10	105.20
20	B7	21	DG	OP2-P-O3'	6.77	120.09	105.20
172	P9	15	DG	OP2-P-O3'	6.77	120.10	105.20
11	AB	16	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	481	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	801	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	805	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	1264	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	1527	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	1845	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	3307	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	3661	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	3914	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	4029	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	4338	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	5179	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	5413	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	5660	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	5893	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	6142	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	6270	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	7180	DG	OP2-P-O3'	6.77	120.09	105.20
75	G7	24	DG	OP2-P-O3'	6.77	120.09	105.20
103	J1	26	DG	OP2-P-O3'	6.77	120.09	105.20
108	J7	12	DG	OP2-P-O3'	6.77	120.09	105.20
125	L1	29	DG	OP2-P-O3'	6.77	120.09	105.20
133	LA	3	DG	OP2-P-O3'	6.77	120.09	105.20
134	LC	19	DG	OP2-P-O3'	6.77	120.09	105.20
157	O3	19	DG	OP2-P-O3'	6.77	120.09	105.20
161	O8	36	DG	OP2-P-O3'	6.77	120.09	105.20
196	S5	4	DG	OP2-P-O3'	6.77	120.09	105.20
203	T2	14	DG	OP2-P-O3'	6.77	120.09	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
207	T8	7	DG	OP2-P-O3'	6.77	120.09	105.20
211	TD	17	DG	OP2-P-O3'	6.77	120.09	105.20
214	U5	38	DG	OP2-P-O3'	6.77	120.09	105.20
218	UA	8	DG	OP2-P-O3'	6.77	120.09	105.20
231	W5	8	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	213	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	412	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	541	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	880	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	1362	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	1418	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	2766	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	2799	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	2833	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	2901	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	2944	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	3040	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	3562	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	4100	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	4293	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	4551	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	5965	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	6431	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	6479	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	6592	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	6849	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	6923	DG	OP2-P-O3'	6.77	120.09	105.20
41	D6	33	DG	OP2-P-O3'	6.77	120.09	105.20
68	FC	11	DG	OP2-P-O3'	6.77	120.09	105.20
76	G8	15	DG	OP2-P-O3'	6.77	120.09	105.20
113	JD	33	DG	OP2-P-O3'	6.77	120.09	105.20
142	M9	21	DG	OP2-P-O3'	6.77	120.09	105.20
203	T2	22	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	895	DG	OP2-P-O3'	6.77	120.08	105.20
11	AB	1198	DG	OP2-P-O3'	6.77	120.08	105.20
11	AB	1552	DG	OP2-P-O3'	6.77	120.08	105.20
11	AB	3395	DG	OP2-P-O3'	6.77	120.08	105.20
11	AB	4881	DG	OP2-P-O3'	6.77	120.08	105.20
11	AB	5289	DG	OP2-P-O3'	6.77	120.08	105.20
11	AB	6001	DG	OP2-P-O3'	6.77	120.08	105.20
34	CA	17	DG	OP2-P-O3'	6.77	120.08	105.20
83	H3	26	DG	OP2-P-O3'	6.77	120.09	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
182	QA	6	DG	OP2-P-O3'	6.77	120.09	105.20
235	WD	12	DG	OP2-P-O3'	6.77	120.09	105.20
11	AB	220	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	608	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	1046	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	1593	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	1660	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	1825	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	2193	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	2366	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	2829	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	2977	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	3478	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	3629	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	3993	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	4097	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	4661	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	4745	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	5818	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6126	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6239	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6460	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6521	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6611	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6985	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	7040	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	7070	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	7078	DG	OP2-P-O3'	6.76	120.08	105.20
13	AD	22	DG	OP2-P-O3'	6.76	120.08	105.20
29	C5	16	DG	OP2-P-O3'	6.76	120.08	105.20
34	CA	13	DG	OP2-P-O3'	6.76	120.08	105.20
95	I5	22	DG	OP2-P-O3'	6.76	120.08	105.20
101	IC	25	DG	OP2-P-O3'	6.76	120.08	105.20
108	J7	36	DG	OP2-P-O3'	6.76	120.08	105.20
145	MD	46	DG	OP2-P-O3'	6.76	120.08	105.20
161	O8	57	DG	OP2-P-O3'	6.76	120.08	105.20
207	T8	23	DG	OP2-P-O3'	6.76	120.08	105.20
213	U3	6	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	1376	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	2452	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	3020	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	3604	DG	OP2-P-O3'	6.76	120.08	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3611	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	3677	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	4239	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	5434	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6019	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6573	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6789	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	7032	DG	OP2-P-O3'	6.76	120.08	105.20
17	B4	18	DG	OP2-P-O3'	6.76	120.08	105.20
122	KA	3	DG	OP2-P-O3'	6.76	120.08	105.20
231	W5	18	DG	OP2-P-O3'	6.76	120.08	105.20
233	W8	15	DG	OP2-P-O3'	6.76	120.08	105.20
3	A3	10	DG	OP2-P-O3'	6.76	120.08	105.20
5	A5	19	DG	OP2-P-O3'	6.76	120.08	105.20
5	A5	25	DG	OP2-P-O3'	6.76	120.08	105.20
6	A6	23	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	26	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	424	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	751	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	871	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	1090	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	1685	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	2196	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	2334	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	2806	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	2951	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	3235	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	3310	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	3782	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	4228	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	4365	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	4638	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	5029	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	5093	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	5124	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6439	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6449	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	6557	DG	OP2-P-O3'	6.76	120.08	105.20
11	AB	7059	DG	OP2-P-O3'	6.76	120.08	105.20
22	B9	34	DG	OP2-P-O3'	6.76	120.08	105.20
31	C7	15	DG	OP2-P-O3'	6.76	120.07	105.20
33	C9	2	DG	OP2-P-O3'	6.76	120.08	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	EA	12	DG	OP2-P-O3'	6.76	120.07	105.20
79	GC	21	DG	OP2-P-O3'	6.76	120.07	105.20
84	H5	7	DG	OP2-P-O3'	6.76	120.08	105.20
94	I3	2	DG	OP2-P-O3'	6.76	120.08	105.20
96	I6	10	DG	OP2-P-O3'	6.76	120.07	105.20
102	ID	32	DG	OP2-P-O3'	6.76	120.08	105.20
128	L5	4	DG	OP2-P-O3'	6.76	120.07	105.20
161	O8	23	DG	OP2-P-O3'	6.76	120.07	105.20
178	Q5	30	DG	OP2-P-O3'	6.76	120.08	105.20
213	U3	16	DG	OP2-P-O3'	6.76	120.08	105.20
215	U7	14	DG	OP2-P-O3'	6.76	120.07	105.20
218	UA	18	DG	OP2-P-O3'	6.76	120.07	105.20
1	A1	53	DG	OP2-P-O3'	6.76	120.07	105.20
5	A5	3	DG	OP2-P-O3'	6.76	120.07	105.20
7	A7	35	DG	OP2-P-O3'	6.76	120.07	105.20
8	A8	24	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	29	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	687	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	964	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	1105	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	1339	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	1853	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	1929	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	2926	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	3818	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	4355	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	5464	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	5683	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	5735	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	5802	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	6120	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	6621	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	7004	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	7019	DG	OP2-P-O3'	6.76	120.07	105.20
39	D3	3	DG	OP2-P-O3'	6.76	120.07	105.20
48	E1	21	DG	OP2-P-O3'	6.76	120.07	105.20
49	E2	17	DG	OP2-P-O3'	6.76	120.07	105.20
58	ED	9	DG	OP2-P-O3'	6.76	120.07	105.20
94	I3	40	DG	OP2-P-O3'	6.76	120.07	105.20
102	ID	8	DG	OP2-P-O3'	6.76	120.07	105.20
107	J6	41	DG	OP2-P-O3'	6.76	120.07	105.20
133	LA	13	DG	OP2-P-O3'	6.76	120.07	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
138	M5	23	DG	OP2-P-O3'	6.76	120.07	105.20
169	P6	12	DG	OP2-P-O3'	6.76	120.07	105.20
190	R9	23	DG	OP2-P-O3'	6.76	120.07	105.20
238	X9	37	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	430	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	846	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	1341	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	1433	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	1815	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	3314	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	3547	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	3966	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	6765	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	7136	DG	OP2-P-O3'	6.76	120.07	105.20
19	B6	9	DG	OP2-P-O3'	6.76	120.07	105.20
42	D7	4	DG	OP2-P-O3'	6.76	120.07	105.20
49	E2	34	DG	OP2-P-O3'	6.76	120.07	105.20
64	F7	15	DG	OP2-P-O3'	6.76	120.07	105.20
76	G8	1	DG	OP2-P-O3'	6.76	120.07	105.20
78	GA	3	DG	OP2-P-O3'	6.76	120.07	105.20
93	I2	38	DG	OP2-P-O3'	6.76	120.07	105.20
96	I6	5	DG	OP2-P-O3'	6.76	120.07	105.20
130	L7	30	DG	OP2-P-O3'	6.76	120.07	105.20
134	LC	10	DG	OP2-P-O3'	6.76	120.07	105.20
177	Q3	5	DG	OP2-P-O3'	6.76	120.07	105.20
179	Q7	13	DG	OP2-P-O3'	6.76	120.07	105.20
226	V9	16	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	9	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	38	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	183	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	476	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	651	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	1228	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	1380	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	2038	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	2292	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	2401	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	2595	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	3502	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	3689	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	3743	DG	OP2-P-O3'	6.76	120.07	105.20
11	AB	5150	DG	OP2-P-O3'	6.76	120.06	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5728	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	5942	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	6715	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	6937	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	7066	DG	OP2-P-O3'	6.76	120.06	105.20
51	E5	8	DG	OP2-P-O3'	6.76	120.06	105.20
64	F7	24	DG	OP2-P-O3'	6.76	120.06	105.20
70	G1	16	DG	OP2-P-O3'	6.76	120.06	105.20
93	I2	36	DG	OP2-P-O3'	6.76	120.06	105.20
150	N7	15	DG	OP2-P-O3'	6.76	120.07	105.20
166	P2	22	DG	OP2-P-O3'	6.76	120.07	105.20
215	U7	21	DG	OP2-P-O3'	6.76	120.06	105.20
221	V2	15	DG	OP2-P-O3'	6.76	120.06	105.20
11	AB	340	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	1192	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	2203	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	2301	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	2456	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	2893	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	4315	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	4814	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	5228	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	5720	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	6795	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	6992	DG	OP2-P-O3'	6.75	120.06	105.20
22	B9	47	DG	OP2-P-O3'	6.75	120.06	105.20
56	EA	10	DG	OP2-P-O3'	6.75	120.06	105.20
67	FA	15	DG	OP2-P-O3'	6.75	120.06	105.20
84	H5	3	DG	OP2-P-O3'	6.75	120.06	105.20
182	QA	11	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	314	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	330	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	824	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	1288	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	1349	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	1648	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	1782	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	2045	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	2857	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	3682	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	3890	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	4057	DG	OP2-P-O3'	6.75	120.06	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4482	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	4535	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	5205	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	5382	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	6279	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	6568	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	6717	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	6883	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	7030	DG	OP2-P-O3'	6.75	120.06	105.20
13	AD	38	DG	OP2-P-O3'	6.75	120.06	105.20
14	B1	39	DG	OP2-P-O3'	6.75	120.06	105.20
25	BD	17	DG	OP2-P-O3'	6.75	120.06	105.20
30	C6	3	DG	OP2-P-O3'	6.75	120.06	105.20
31	C7	3	DG	OP2-P-O3'	6.75	120.06	105.20
53	E7	20	DG	OP2-P-O3'	6.75	120.06	105.20
64	F7	20	DG	OP2-P-O3'	6.75	120.06	105.20
114	K1	22	DG	OP2-P-O3'	6.75	120.06	105.20
117	K5	36	DG	OP2-P-O3'	6.75	120.06	105.20
119	K7	29	DG	OP2-P-O3'	6.75	120.06	105.20
135	LD	7	DG	OP2-P-O3'	6.75	120.06	105.20
146	N2	3	DG	OP2-P-O3'	6.75	120.06	105.20
149	N6	36	DG	OP2-P-O3'	6.75	120.06	105.20
161	O8	6	DG	OP2-P-O3'	6.75	120.06	105.20
166	P2	6	DG	OP2-P-O3'	6.75	120.06	105.20
192	RC	28	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	180	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	289	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	1074	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	3638	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	5993	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	6565	DG	OP2-P-O3'	6.75	120.06	105.20
11	AB	6709	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	7151	DG	OP2-P-O3'	6.75	120.05	105.20
57	EC	12	DG	OP2-P-O3'	6.75	120.05	105.20
97	I7	14	DG	OP2-P-O3'	6.75	120.05	105.20
131	L8	27	DG	OP2-P-O3'	6.75	120.05	105.20
155	ND	3	DG	OP2-P-O3'	6.75	120.06	105.20
196	S5	29	DG	OP2-P-O3'	6.75	120.05	105.20
214	U5	30	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	54	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	454	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	1724	DG	OP2-P-O3'	6.75	120.05	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1910	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	2239	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	3866	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	5503	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	7091	DG	OP2-P-O3'	6.75	120.05	105.20
74	G6	9	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	359	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	910	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	1188	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	1336	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	1589	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	1773	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	2157	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	3252	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	3409	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	3739	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	4068	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	4993	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	5587	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	6291	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	6494	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	6518	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	6842	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	7102	DG	OP2-P-O3'	6.75	120.05	105.20
11	AB	7157	DG	OP2-P-O3'	6.75	120.05	105.20
13	AD	11	DG	OP2-P-O3'	6.75	120.05	105.20
63	F6	17	DG	OP2-P-O3'	6.75	120.05	105.20
72	G3	11	DG	OP2-P-O3'	6.75	120.05	105.20
73	G5	16	DG	OP2-P-O3'	6.75	120.05	105.20
97	I7	26	DG	OP2-P-O3'	6.75	120.05	105.20
194	S2	25	DG	OP2-P-O3'	6.75	120.05	105.20
234	W9	8	DG	OP2-P-O3'	6.75	120.05	105.20
1	A1	29	DG	OP2-P-O3'	6.75	120.04	105.20
11	AB	1643	DG	OP2-P-O3'	6.75	120.04	105.20
11	AB	2298	DG	OP2-P-O3'	6.75	120.04	105.20
11	AB	3232	DG	OP2-P-O3'	6.75	120.04	105.20
11	AB	3731	DG	OP2-P-O3'	6.75	120.04	105.20
11	AB	5183	DG	OP2-P-O3'	6.75	120.04	105.20
11	AB	6634	DG	OP2-P-O3'	6.75	120.04	105.20
24	BC	34	DG	OP2-P-O3'	6.75	120.04	105.20
26	C1	4	DG	OP2-P-O3'	6.75	120.04	105.20
74	G6	33	DG	OP2-P-O3'	6.75	120.04	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
121	K9	25	DG	OP2-P-O3'	6.75	120.04	105.20
145	MD	33	DG	OP2-P-O3'	6.75	120.04	105.20
182	QA	9	DG	OP2-P-O3'	6.75	120.04	105.20
211	TD	13	DG	OP2-P-O3'	6.75	120.04	105.20
11	AB	2418	DG	OP2-P-O3'	6.75	120.04	105.20
11	AB	3880	DG	OP2-P-O3'	6.75	120.04	105.20
97	I7	11	DG	OP2-P-O3'	6.75	120.04	105.20
159	O6	11	DG	OP2-P-O3'	6.75	120.04	105.20
168	P5	10	DG	OP2-P-O3'	6.75	120.04	105.20
204	T3	44	DG	OP2-P-O3'	6.75	120.04	105.20
228	VC	9	DG	OP2-P-O3'	6.75	120.04	105.20
2	A2	26	DG	OP2-P-O3'	6.74	120.04	105.20
11	AB	32	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	310	DG	OP2-P-O3'	6.74	120.04	105.20
11	AB	1391	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	1481	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	2569	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	2656	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	3847	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	4740	DG	OP2-P-O3'	6.74	120.04	105.20
11	AB	6581	DG	OP2-P-O3'	6.74	120.04	105.20
11	AB	7081	DG	OP2-P-O3'	6.74	120.03	105.20
41	D6	27	DG	OP2-P-O3'	6.74	120.04	105.20
72	G3	20	DG	OP2-P-O3'	6.74	120.04	105.20
141	M8	21	DG	OP2-P-O3'	6.74	120.04	105.20
161	O8	14	DG	OP2-P-O3'	6.74	120.04	105.20
11	AB	2679	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	4753	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	6982	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	7129	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	1634	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	1641	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	3766	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	4834	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	5557	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	6499	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	6901	DG	OP2-P-O3'	6.74	120.03	105.20
14	B1	3	DG	OP2-P-O3'	6.74	120.03	105.20
82	H2	36	DG	OP2-P-O3'	6.74	120.03	105.20
148	N5	12	DG	OP2-P-O3'	6.74	120.03	105.20
227	VA	12	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	1443	DG	OP2-P-O3'	6.74	120.02	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1821	DG	OP2-P-O3'	6.74	120.02	105.20
11	AB	3044	DG	OP2-P-O3'	6.74	120.02	105.20
11	AB	4871	DG	OP2-P-O3'	6.74	120.03	105.20
152	N9	4	DG	OP2-P-O3'	6.74	120.03	105.20
219	UC	8	DG	OP2-P-O3'	6.74	120.03	105.20
11	AB	361	DG	OP2-P-O3'	6.74	120.02	105.20
11	AB	3069	DG	OP2-P-O3'	6.74	120.02	105.20
178	Q5	24	DG	OP2-P-O3'	6.74	120.02	105.20
11	AB	970	DG	OP2-P-O3'	6.74	120.02	105.20
11	AB	1461	DG	OP2-P-O3'	6.74	120.02	105.20
11	AB	2761	DG	OP2-P-O3'	6.74	120.02	105.20
153	NA	7	DG	OP2-P-O3'	6.74	120.02	105.20
204	T3	31	DG	OP2-P-O3'	6.74	120.02	105.20
11	AB	6458	DG	OP2-P-O3'	6.73	120.01	105.20
48	E1	26	DG	OP2-P-O3'	6.73	120.01	105.20
188	R7	10	DG	OP2-P-O3'	6.73	120.01	105.20
221	V2	7	DG	OP2-P-O3'	6.73	120.01	105.20
11	AB	336	DG	OP2-P-O3'	6.73	120.00	105.20
16	B3	18	DG	OP2-P-O3'	6.73	120.00	105.20
116	K3	10	DG	OP2-P-O3'	6.73	120.00	105.20
11	AB	1275	DG	OP2-P-O3'	6.73	120.00	105.20
11	AB	1739	DG	OP2-P-O3'	6.73	120.00	105.20
11	AB	1902	DG	OP2-P-O3'	6.73	120.00	105.20
11	AB	2416	DG	OP2-P-O3'	6.73	120.00	105.20
11	AB	868	DG	OP2-P-O3'	6.70	119.94	105.20
11	AB	898	DG	OP2-P-O3'	6.68	119.90	105.20
11	AB	7197	DG	OP2-P-O3'	6.67	119.88	105.20
11	AB	5071	DC	O3'-P-O5'	-6.66	91.34	104.00
11	AB	3458	DG	OP2-P-O3'	6.66	119.85	105.20
169	P6	11	DC	O3'-P-O5'	-6.64	91.38	104.00
11	AB	260	DC	O3'-P-O5'	-6.64	91.38	104.00
11	AB	4255	DC	O3'-P-O5'	-6.64	91.38	104.00
11	AB	4883	DC	O3'-P-O5'	-6.64	91.38	104.00
11	AB	5447	DC	O3'-P-O5'	-6.64	91.38	104.00
11	AB	1124	DC	O3'-P-O5'	-6.64	91.38	104.00
11	AB	4084	DC	O3'-P-O5'	-6.64	91.38	104.00
11	AB	1019	DC	O3'-P-O5'	-6.64	91.39	104.00
11	AB	3291	DC	O3'-P-O5'	-6.64	91.39	104.00
214	U5	6	DC	O3'-P-O5'	-6.64	91.39	104.00
11	AB	203	DC	O3'-P-O5'	-6.64	91.39	104.00
11	AB	1942	DC	O3'-P-O5'	-6.64	91.39	104.00
11	AB	4111	DC	O3'-P-O5'	-6.64	91.39	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	ED	36	DC	O3'-P-O5'	-6.64	91.39	104.00
166	P2	12	DC	O3'-P-O5'	-6.64	91.39	104.00
11	AB	2172	DC	O3'-P-O5'	-6.63	91.39	104.00
11	AB	2434	DC	O3'-P-O5'	-6.63	91.40	104.00
11	AB	3780	DC	O3'-P-O5'	-6.63	91.40	104.00
11	AB	4666	DC	O3'-P-O5'	-6.63	91.40	104.00
72	G3	25	DC	O3'-P-O5'	-6.63	91.40	104.00
152	N9	25	DC	O3'-P-O5'	-6.63	91.39	104.00
238	X9	54	DC	O3'-P-O5'	-6.63	91.40	104.00
11	AB	4610	DC	O3'-P-O5'	-6.63	91.40	104.00
107	J6	34	DC	O3'-P-O5'	-6.63	91.40	104.00
212	U2	19	DC	O3'-P-O5'	-6.63	91.40	104.00
11	AB	3567	DC	O3'-P-O5'	-6.63	91.40	104.00
45	DA	19	DC	O3'-P-O5'	-6.63	91.40	104.00
91	HD	18	DC	O3'-P-O5'	-6.63	91.40	104.00
211	TD	40	DC	O3'-P-O5'	-6.63	91.40	104.00
11	AB	686	DC	O3'-P-O5'	-6.63	91.40	104.00
11	AB	3167	DC	O3'-P-O5'	-6.63	91.40	104.00
11	AB	5011	DC	O3'-P-O5'	-6.63	91.40	104.00
11	AB	5149	DC	O3'-P-O5'	-6.63	91.40	104.00
13	AD	15	DC	O3'-P-O5'	-6.63	91.40	104.00
39	D3	9	DC	O3'-P-O5'	-6.63	91.40	104.00
66	F9	14	DC	O3'-P-O5'	-6.63	91.40	104.00
93	I2	29	DC	O3'-P-O5'	-6.63	91.40	104.00
166	P2	10	DC	O3'-P-O5'	-6.63	91.40	104.00
226	V9	21	DC	O3'-P-O5'	-6.63	91.40	104.00
231	W5	34	DC	O3'-P-O5'	-6.63	91.40	104.00
11	AB	365	DC	O3'-P-O5'	-6.63	91.41	104.00
11	AB	2083	DC	O3'-P-O5'	-6.63	91.40	104.00
11	AB	2734	DG	OP2-P-O3'	6.63	119.78	105.20
11	AB	4331	DC	O3'-P-O5'	-6.63	91.41	104.00
11	AB	7242	DC	O3'-P-O5'	-6.63	91.41	104.00
18	B5	2	DC	O3'-P-O5'	-6.63	91.41	104.00
163	OA	3	DC	O3'-P-O5'	-6.63	91.41	104.00
182	QA	1	DC	O3'-P-O5'	-6.63	91.41	104.00
11	AB	658	DC	O3'-P-O5'	-6.63	91.41	104.00
11	AB	3457	DC	O3'-P-O5'	-6.63	91.41	104.00
11	AB	3984	DC	O3'-P-O5'	-6.63	91.41	104.00
11	AB	5532	DC	O3'-P-O5'	-6.63	91.41	104.00
11	AB	6645	DC	O3'-P-O5'	-6.63	91.41	104.00
93	I2	18	DC	O3'-P-O5'	-6.63	91.41	104.00
122	KA	2	DC	O3'-P-O5'	-6.63	91.41	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
177	Q3	18	DC	O3'-P-O5'	-6.63	91.41	104.00
182	QA	23	DC	O3'-P-O5'	-6.63	91.41	104.00
211	TD	38	DC	O3'-P-O5'	-6.63	91.41	104.00
11	AB	1820	DC	O3'-P-O5'	-6.62	91.41	104.00
11	AB	6591	DC	O3'-P-O5'	-6.62	91.41	104.00
133	LA	18	DC	O3'-P-O5'	-6.62	91.41	104.00
145	MD	32	DC	O3'-P-O5'	-6.62	91.41	104.00
11	AB	1810	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	4481	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	4589	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	6186	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	6348	DC	O3'-P-O5'	-6.62	91.42	104.00
49	E2	39	DC	O3'-P-O5'	-6.62	91.42	104.00
76	G8	14	DC	O3'-P-O5'	-6.62	91.42	104.00
113	JD	13	DC	O3'-P-O5'	-6.62	91.41	104.00
149	N6	35	DC	O3'-P-O5'	-6.62	91.42	104.00
175	PD	19	DC	O3'-P-O5'	-6.62	91.41	104.00
190	R9	44	DC	O3'-P-O5'	-6.62	91.42	104.00
204	T3	2	DC	O3'-P-O5'	-6.62	91.41	104.00
3	A3	12	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	737	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	1525	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	1980	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	2340	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	2590	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	5018	DC	O3'-P-O5'	-6.62	91.42	104.00
28	C3	23	DC	O3'-P-O5'	-6.62	91.42	104.00
98	I8	38	DC	O3'-P-O5'	-6.62	91.42	104.00
113	JD	25	DC	O3'-P-O5'	-6.62	91.42	104.00
115	K2	10	DC	O3'-P-O5'	-6.62	91.42	104.00
187	R5	9	DC	O3'-P-O5'	-6.62	91.42	104.00
224	V7	15	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	1982	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	6412	DC	O3'-P-O5'	-6.62	91.42	104.00
32	C8	27	DC	O3'-P-O5'	-6.62	91.42	104.00
111	JA	9	DC	O3'-P-O5'	-6.62	91.42	104.00
125	L1	5	DC	O3'-P-O5'	-6.62	91.42	104.00
164	OC	13	DC	O3'-P-O5'	-6.62	91.42	104.00
236	X5	18	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	1407	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	2266	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	3565	DC	O3'-P-O5'	-6.62	91.42	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3620	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	6580	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	6723	DC	O3'-P-O5'	-6.62	91.42	104.00
70	G1	7	DC	O3'-P-O5'	-6.62	91.42	104.00
94	I3	46	DC	O3'-P-O5'	-6.62	91.42	104.00
134	LC	17	DC	O3'-P-O5'	-6.62	91.42	104.00
143	MA	44	DC	O3'-P-O5'	-6.62	91.42	104.00
159	O6	6	DC	O3'-P-O5'	-6.62	91.42	104.00
199	S9	9	DC	O3'-P-O5'	-6.62	91.43	104.00
228	VC	32	DC	O3'-P-O5'	-6.62	91.43	104.00
230	W3	36	DC	O3'-P-O5'	-6.62	91.42	104.00
11	AB	445	DG	OP2-P-O3'	6.62	119.76	105.20
11	AB	1814	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	4106	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	4289	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	4321	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	6948	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	7077	DC	O3'-P-O5'	-6.62	91.43	104.00
40	D5	5	DC	O3'-P-O5'	-6.62	91.43	104.00
49	E2	5	DC	O3'-P-O5'	-6.62	91.43	104.00
53	E7	12	DC	O3'-P-O5'	-6.62	91.43	104.00
61	F3	16	DC	O3'-P-O5'	-6.62	91.43	104.00
91	HD	24	DC	O3'-P-O5'	-6.62	91.43	104.00
128	L5	3	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	857	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	968	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	4599	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	4880	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	5992	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	6912	DG	OP2-P-O3'	6.62	119.76	105.20
65	F8	10	DC	O3'-P-O5'	-6.62	91.43	104.00
90	HC	14	DC	O3'-P-O5'	-6.62	91.43	104.00
147	N3	24	DC	O3'-P-O5'	-6.62	91.43	104.00
200	SA	25	DC	O3'-P-O5'	-6.62	91.43	104.00
222	V3	16	DC	O3'-P-O5'	-6.62	91.43	104.00
11	AB	2170	DC	O3'-P-O5'	-6.61	91.43	104.00
11	AB	2205	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	3524	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	3610	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	4730	DC	O3'-P-O5'	-6.61	91.43	104.00
11	AB	4997	DC	O3'-P-O5'	-6.61	91.43	104.00
11	AB	6169	DC	O3'-P-O5'	-6.61	91.43	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6430	DC	O3'-P-O5'	-6.61	91.43	104.00
11	AB	7207	DC	O3'-P-O5'	-6.61	91.43	104.00
41	D6	4	DC	O3'-P-O5'	-6.61	91.43	104.00
214	U5	26	DC	O3'-P-O5'	-6.61	91.43	104.00
219	UC	30	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	4942	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	5865	DC	O3'-P-O5'	-6.61	91.44	104.00
30	C6	40	DC	O3'-P-O5'	-6.61	91.44	104.00
52	E6	15	DC	O3'-P-O5'	-6.61	91.44	104.00
3	A3	9	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	823	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	944	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	1100	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	2027	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	2976	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	4003	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	4132	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	4671	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	5214	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	5440	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	6167	DC	O3'-P-O5'	-6.61	91.44	104.00
37	D1	10	DC	O3'-P-O5'	-6.61	91.44	104.00
47	DD	5	DC	O3'-P-O5'	-6.61	91.44	104.00
72	G3	10	DC	O3'-P-O5'	-6.61	91.44	104.00
94	I3	49	DC	O3'-P-O5'	-6.61	91.44	104.00
116	K3	14	DC	O3'-P-O5'	-6.61	91.44	104.00
147	N3	6	DC	O3'-P-O5'	-6.61	91.44	104.00
148	N5	11	DC	O3'-P-O5'	-6.61	91.44	104.00
164	OC	10	DC	O3'-P-O5'	-6.61	91.44	104.00
213	U3	4	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	3528	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	4140	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	4758	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	7058	DC	O3'-P-O5'	-6.61	91.44	104.00
73	G5	13	DC	O3'-P-O5'	-6.61	91.44	104.00
79	GC	2	DC	O3'-P-O5'	-6.61	91.44	104.00
169	P6	6	DC	O3'-P-O5'	-6.61	91.44	104.00
186	R3	18	DC	O3'-P-O5'	-6.61	91.44	104.00
227	VA	21	DC	O3'-P-O5'	-6.61	91.44	104.00
10	AA	10	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	428	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	1088	DC	O3'-P-O5'	-6.61	91.44	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1997	DC	O3'-P-O5'	-6.61	91.44	104.00
11	AB	4735	DC	O3'-P-O5'	-6.61	91.45	104.00
11	AB	4952	DC	O3'-P-O5'	-6.61	91.45	104.00
11	AB	5592	DC	O3'-P-O5'	-6.61	91.45	104.00
11	AB	6493	DC	O3'-P-O5'	-6.61	91.45	104.00
11	AB	6881	DC	O3'-P-O5'	-6.61	91.45	104.00
88	H9	29	DC	O3'-P-O5'	-6.61	91.45	104.00
104	J2	15	DC	O3'-P-O5'	-6.61	91.45	104.00
129	L6	24	DC	O3'-P-O5'	-6.61	91.44	104.00
143	MA	13	DC	O3'-P-O5'	-6.61	91.45	104.00
156	O2	38	DC	O3'-P-O5'	-6.61	91.45	104.00
163	OA	11	DC	O3'-P-O5'	-6.61	91.45	104.00
229	VD	4	DC	O3'-P-O5'	-6.61	91.45	104.00
11	AB	2523	DC	O3'-P-O5'	-6.61	91.45	104.00
11	AB	4144	DC	O3'-P-O5'	-6.61	91.45	104.00
11	AB	4247	DC	O3'-P-O5'	-6.61	91.45	104.00
11	AB	5086	DC	O3'-P-O5'	-6.61	91.45	104.00
11	AB	7201	DC	O3'-P-O5'	-6.61	91.45	104.00
59	F1	1	DC	O3'-P-O5'	-6.61	91.45	104.00
137	M3	25	DC	O3'-P-O5'	-6.61	91.45	104.00
150	N7	12	DC	O3'-P-O5'	-6.61	91.45	104.00
167	P3	8	DC	O3'-P-O5'	-6.61	91.45	104.00
182	QA	5	DC	O3'-P-O5'	-6.61	91.45	104.00
205	T5	1	DC	O3'-P-O5'	-6.61	91.45	104.00
220	UD	6	DC	O3'-P-O5'	-6.61	91.45	104.00
11	AB	4086	DC	O3'-P-O5'	-6.60	91.45	104.00
11	AB	4089	DC	O3'-P-O5'	-6.60	91.45	104.00
11	AB	4867	DC	O3'-P-O5'	-6.60	91.45	104.00
11	AB	6610	DC	O3'-P-O5'	-6.60	91.45	104.00
79	GC	16	DC	O3'-P-O5'	-6.60	91.45	104.00
88	H9	19	DC	O3'-P-O5'	-6.60	91.45	104.00
147	N3	18	DC	O3'-P-O5'	-6.60	91.45	104.00
156	O2	53	DC	O3'-P-O5'	-6.60	91.45	104.00
178	Q5	4	DC	O3'-P-O5'	-6.60	91.45	104.00
217	U9	19	DC	O3'-P-O5'	-6.60	91.45	104.00
1	A1	52	DC	O3'-P-O5'	-6.60	91.45	104.00
11	AB	443	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	3141	DC	O3'-P-O5'	-6.60	91.45	104.00
11	AB	3490	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	4430	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	5166	DC	O3'-P-O5'	-6.60	91.45	104.00
11	AB	5454	DC	O3'-P-O5'	-6.60	91.46	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5863	DC	O3'-P-O5'	-6.60	91.45	104.00
14	B1	8	DC	O3'-P-O5'	-6.60	91.45	104.00
59	F1	17	DC	O3'-P-O5'	-6.60	91.46	104.00
178	Q5	8	DC	O3'-P-O5'	-6.60	91.45	104.00
223	V5	5	DC	O3'-P-O5'	-6.60	91.45	104.00
238	X9	36	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	929	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	2673	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	3756	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	4117	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	4302	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	4870	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	6063	DC	O3'-P-O5'	-6.60	91.46	104.00
83	H3	36	DC	O3'-P-O5'	-6.60	91.46	104.00
150	N7	19	DC	O3'-P-O5'	-6.60	91.46	104.00
206	T7	20	DC	O3'-P-O5'	-6.60	91.46	104.00
223	V5	2	DC	O3'-P-O5'	-6.60	91.46	104.00
5	A5	24	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	1390	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	2208	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	4601	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	5133	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	5703	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	7215	DC	O3'-P-O5'	-6.60	91.46	104.00
22	B9	33	DC	O3'-P-O5'	-6.60	91.46	104.00
63	F6	10	DC	O3'-P-O5'	-6.60	91.46	104.00
72	G3	19	DC	O3'-P-O5'	-6.60	91.46	104.00
94	I3	19	DC	O3'-P-O5'	-6.60	91.46	104.00
143	MA	10	DC	O3'-P-O5'	-6.60	91.46	104.00
145	MD	12	DC	O3'-P-O5'	-6.60	91.46	104.00
207	T8	21	DC	O3'-P-O5'	-6.60	91.46	104.00
227	VA	23	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	1227	DC	O3'-P-O5'	-6.60	91.47	104.00
11	AB	2525	DC	O3'-P-O5'	-6.60	91.47	104.00
11	AB	2995	DC	O3'-P-O5'	-6.60	91.47	104.00
11	AB	3229	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	4232	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	4800	DC	O3'-P-O5'	-6.60	91.47	104.00
11	AB	5052	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	5095	DC	O3'-P-O5'	-6.60	91.46	104.00
11	AB	7246	DC	O3'-P-O5'	-6.60	91.47	104.00
72	G3	13	DC	O3'-P-O5'	-6.60	91.46	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
78	GA	1	DC	O3'-P-O5'	-6.60	91.46	104.00
192	RC	27	DC	O3'-P-O5'	-6.60	91.47	104.00
217	U9	22	DC	O3'-P-O5'	-6.60	91.47	104.00
218	UA	15	DC	O3'-P-O5'	-6.60	91.46	104.00
221	V2	6	DC	O3'-P-O5'	-6.60	91.47	104.00
11	AB	860	DC	O3'-P-O5'	-6.60	91.47	104.00
11	AB	3474	DC	O3'-P-O5'	-6.60	91.47	104.00
82	H2	29	DC	O3'-P-O5'	-6.60	91.47	104.00
179	Q7	12	DC	O3'-P-O5'	-6.60	91.47	104.00
11	AB	1468	DC	O3'-P-O5'	-6.59	91.47	104.00
11	AB	2312	DC	O3'-P-O5'	-6.59	91.47	104.00
11	AB	4541	DC	O3'-P-O5'	-6.59	91.47	104.00
11	AB	6478	DC	O3'-P-O5'	-6.59	91.47	104.00
55	E9	17	DC	O3'-P-O5'	-6.59	91.47	104.00
99	I9	26	DC	O3'-P-O5'	-6.59	91.47	104.00
167	P3	2	DC	O3'-P-O5'	-6.59	91.47	104.00
181	Q9	15	DC	O3'-P-O5'	-6.59	91.47	104.00
11	AB	1118	DC	O3'-P-O5'	-6.59	91.47	104.00
11	AB	1723	DC	O3'-P-O5'	-6.59	91.47	104.00
11	AB	3954	DC	O3'-P-O5'	-6.59	91.47	104.00
11	AB	4603	DC	O3'-P-O5'	-6.59	91.47	104.00
86	H7	23	DC	O3'-P-O5'	-6.59	91.47	104.00
161	O8	27	DC	O3'-P-O5'	-6.59	91.47	104.00
11	AB	950	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	2414	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	5034	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	7186	DC	O3'-P-O5'	-6.59	91.47	104.00
42	D7	17	DC	O3'-P-O5'	-6.59	91.47	104.00
85	H6	28	DC	O3'-P-O5'	-6.59	91.48	104.00
101	IC	17	DC	O3'-P-O5'	-6.59	91.48	104.00
119	K7	8	DC	O3'-P-O5'	-6.59	91.47	104.00
191	RA	14	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	350	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	3019	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	4104	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	6572	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	6764	DC	O3'-P-O5'	-6.59	91.48	104.00
22	B9	16	DC	O3'-P-O5'	-6.59	91.48	104.00
24	BC	5	DC	O3'-P-O5'	-6.59	91.48	104.00
58	ED	30	DC	O3'-P-O5'	-6.59	91.48	104.00
102	ID	31	DC	O3'-P-O5'	-6.59	91.48	104.00
112	JC	3	DC	O3'-P-O5'	-6.59	91.48	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
209	TA	24	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	6444	DC	O3'-P-O5'	-6.59	91.48	104.00
14	B1	31	DC	O3'-P-O5'	-6.59	91.48	104.00
126	L2	35	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	167	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	4436	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	4806	DC	O3'-P-O5'	-6.59	91.49	104.00
11	AB	5190	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	7090	DC	O3'-P-O5'	-6.59	91.48	104.00
44	D9	29	DC	O3'-P-O5'	-6.59	91.48	104.00
52	E6	6	DC	O3'-P-O5'	-6.59	91.48	104.00
84	H5	2	DC	O3'-P-O5'	-6.59	91.48	104.00
103	J1	25	DC	O3'-P-O5'	-6.59	91.49	104.00
145	MD	14	DC	O3'-P-O5'	-6.59	91.49	104.00
158	O5	48	DC	O3'-P-O5'	-6.59	91.48	104.00
187	R5	19	DC	O3'-P-O5'	-6.59	91.49	104.00
204	T3	22	DC	O3'-P-O5'	-6.59	91.49	104.00
232	W7	18	DC	O3'-P-O5'	-6.59	91.48	104.00
11	AB	21	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	2714	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	5278	DC	O3'-P-O5'	-6.58	91.49	104.00
30	C6	32	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	2109	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	2925	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	3722	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	4975	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	5098	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	6433	DC	O3'-P-O5'	-6.58	91.49	104.00
23	BA	15	DC	O3'-P-O5'	-6.58	91.49	104.00
52	E6	32	DC	O3'-P-O5'	-6.58	91.49	104.00
98	I8	31	DC	O3'-P-O5'	-6.58	91.49	104.00
115	K2	19	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	272	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	524	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	1037	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	1255	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	1348	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	2055	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	2886	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	3211	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	3959	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	4573	DC	O3'-P-O5'	-6.58	91.50	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	E5	10	DC	O3'-P-O5'	-6.58	91.50	104.00
60	F2	23	DC	O3'-P-O5'	-6.58	91.50	104.00
106	J5	32	DC	O3'-P-O5'	-6.58	91.49	104.00
115	K2	36	DC	O3'-P-O5'	-6.58	91.49	104.00
139	M6	20	DC	O3'-P-O5'	-6.58	91.50	104.00
174	PC	6	DC	O3'-P-O5'	-6.58	91.50	104.00
220	UD	18	DC	O3'-P-O5'	-6.58	91.49	104.00
11	AB	3730	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	3878	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	4211	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	4903	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	6145	DC	O3'-P-O5'	-6.58	91.50	104.00
48	E1	13	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	149	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	627	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	2876	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	4017	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	4196	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	5742	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	6911	DC	O3'-P-O5'	-6.58	91.50	104.00
41	D6	26	DC	O3'-P-O5'	-6.58	91.50	104.00
42	D7	13	DC	O3'-P-O5'	-6.58	91.50	104.00
97	I7	7	DC	O3'-P-O5'	-6.58	91.50	104.00
154	NC	23	DC	O3'-P-O5'	-6.58	91.50	104.00
182	QA	17	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	293	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	521	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	1335	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	6998	DC	O3'-P-O5'	-6.58	91.50	104.00
47	DD	33	DC	O3'-P-O5'	-6.58	91.50	104.00
199	S9	21	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	998	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	1738	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	2717	DC	O3'-P-O5'	-6.58	91.51	104.00
11	AB	2940	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	3237	DC	O3'-P-O5'	-6.58	91.51	104.00
11	AB	4028	DC	O3'-P-O5'	-6.58	91.51	104.00
11	AB	5122	DC	O3'-P-O5'	-6.58	91.51	104.00
11	AB	5324	DC	O3'-P-O5'	-6.58	91.51	104.00
11	AB	6787	DC	O3'-P-O5'	-6.58	91.50	104.00
110	J9	17	DC	O3'-P-O5'	-6.58	91.50	104.00
116	K3	5	DC	O3'-P-O5'	-6.58	91.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
166	P2	20	DC	O3'-P-O5'	-6.58	91.51	104.00
179	Q7	24	DC	O3'-P-O5'	-6.58	91.50	104.00
11	AB	43	DC	O3'-P-O5'	-6.57	91.51	104.00
11	AB	288	DC	O3'-P-O5'	-6.57	91.51	104.00
11	AB	749	DC	O3'-P-O5'	-6.57	91.51	104.00
11	AB	4397	DC	O3'-P-O5'	-6.57	91.51	104.00
11	AB	4632	DC	O3'-P-O5'	-6.57	91.51	104.00
11	AB	5261	DC	O3'-P-O5'	-6.57	91.51	104.00
11	AB	6848	DC	O3'-P-O5'	-6.57	91.51	104.00
14	B1	38	DC	O3'-P-O5'	-6.57	91.51	104.00
33	C9	5	DC	O3'-P-O5'	-6.57	91.51	104.00
87	H8	18	DC	O3'-P-O5'	-6.57	91.51	104.00
93	I2	40	DC	O3'-P-O5'	-6.57	91.51	104.00
94	I3	28	DC	O3'-P-O5'	-6.57	91.51	104.00
103	J1	3	DC	O3'-P-O5'	-6.57	91.51	104.00
201	SC	18	DC	O3'-P-O5'	-6.57	91.51	104.00
11	AB	479	DC	O3'-P-O5'	-6.57	91.51	104.00
11	AB	1190	DC	O3'-P-O5'	-6.57	91.51	104.00
11	AB	4041	DC	O3'-P-O5'	-6.57	91.51	104.00
12	AC	19	DC	O3'-P-O5'	-6.57	91.51	104.00
26	C1	3	DC	O3'-P-O5'	-6.57	91.51	104.00
131	L8	24	DC	O3'-P-O5'	-6.57	91.51	104.00
178	Q5	37	DC	O3'-P-O5'	-6.57	91.51	104.00
11	AB	458	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	1449	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	1659	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	1926	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	3543	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	3813	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	4035	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	4183	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	4186	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	5202	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	5945	DC	O3'-P-O5'	-6.57	91.52	104.00
21	B8	11	DC	O3'-P-O5'	-6.57	91.52	104.00
35	CC	27	DC	O3'-P-O5'	-6.57	91.52	104.00
38	D2	16	DC	O3'-P-O5'	-6.57	91.51	104.00
51	E5	6	DC	O3'-P-O5'	-6.57	91.52	104.00
55	E9	21	DC	O3'-P-O5'	-6.57	91.52	104.00
58	ED	8	DC	O3'-P-O5'	-6.57	91.52	104.00
70	G1	15	DC	O3'-P-O5'	-6.57	91.51	104.00
158	O5	26	DC	O3'-P-O5'	-6.57	91.52	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
194	S2	11	DC	O3'-P-O5'	-6.57	91.52	104.00
202	SD	5	DC	O3'-P-O5'	-6.57	91.52	104.00
203	T2	21	DC	O3'-P-O5'	-6.57	91.52	104.00
216	U8	13	DC	O3'-P-O5'	-6.57	91.52	104.00
1	A1	28	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	329	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	535	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	4819	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	5555	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	5682	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	6996	DC	O3'-P-O5'	-6.57	91.52	104.00
33	C9	12	DC	O3'-P-O5'	-6.57	91.52	104.00
43	D8	39	DC	O3'-P-O5'	-6.57	91.52	104.00
139	M6	18	DC	O3'-P-O5'	-6.57	91.52	104.00
153	NA	6	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	81	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	884	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	1196	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	2450	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	2454	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	4072	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	4075	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	4153	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	4313	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	4582	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	4970	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	6981	DC	O3'-P-O5'	-6.57	91.52	104.00
35	CC	17	DC	O3'-P-O5'	-6.57	91.52	104.00
47	DD	45	DC	O3'-P-O5'	-6.57	91.52	104.00
50	E3	3	DC	O3'-P-O5'	-6.57	91.52	104.00
104	J2	25	DC	O3'-P-O5'	-6.57	91.52	104.00
121	K9	24	DC	O3'-P-O5'	-6.57	91.52	104.00
143	MA	39	DC	O3'-P-O5'	-6.57	91.52	104.00
173	PA	37	DC	O3'-P-O5'	-6.57	91.52	104.00
196	S5	8	DC	O3'-P-O5'	-6.57	91.52	104.00
198	S8	33	DC	O3'-P-O5'	-6.57	91.52	104.00
11	AB	7	DC	O3'-P-O5'	-6.57	91.53	104.00
11	AB	1266	DC	O3'-P-O5'	-6.57	91.53	104.00
11	AB	2036	DC	O3'-P-O5'	-6.57	91.53	104.00
11	AB	4644	DC	O3'-P-O5'	-6.57	91.53	104.00
11	AB	5175	DC	O3'-P-O5'	-6.57	91.53	104.00
11	AB	6906	DC	O3'-P-O5'	-6.57	91.53	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7173	DC	O3'-P-O5'	-6.57	91.53	104.00
54	E8	27	DC	O3'-P-O5'	-6.57	91.53	104.00
69	FD	43	DC	O3'-P-O5'	-6.57	91.53	104.00
104	J2	11	DC	O3'-P-O5'	-6.57	91.52	104.00
109	J8	43	DC	O3'-P-O5'	-6.57	91.53	104.00
165	OD	50	DC	O3'-P-O5'	-6.57	91.53	104.00
183	QC	18	DC	O3'-P-O5'	-6.57	91.53	104.00
11	AB	100	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	4179	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	4655	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	5409	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	6832	DC	O3'-P-O5'	-6.56	91.53	104.00
79	GC	11	DC	O3'-P-O5'	-6.56	91.53	104.00
232	W7	22	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	1904	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	3889	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	4174	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	4960	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	5178	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	6916	DC	O3'-P-O5'	-6.56	91.53	104.00
24	BC	10	DC	O3'-P-O5'	-6.56	91.53	104.00
69	FD	45	DC	O3'-P-O5'	-6.56	91.53	104.00
120	K8	7	DC	O3'-P-O5'	-6.56	91.53	104.00
123	KC	20	DC	O3'-P-O5'	-6.56	91.53	104.00
132	L9	13	DC	O3'-P-O5'	-6.56	91.53	104.00
133	LA	11	DC	O3'-P-O5'	-6.56	91.53	104.00
161	O8	50	DC	O3'-P-O5'	-6.56	91.53	104.00
204	T3	13	DC	O3'-P-O5'	-6.56	91.53	104.00
209	TA	13	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	1283	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	2372	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	7168	DC	O3'-P-O5'	-6.56	91.53	104.00
25	BD	9	DC	O3'-P-O5'	-6.56	91.53	104.00
96	I6	4	DC	O3'-P-O5'	-6.56	91.53	104.00
110	J9	19	DC	O3'-P-O5'	-6.56	91.53	104.00
160	O7	11	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	767	DC	O3'-P-O5'	-6.56	91.54	104.00
11	AB	1668	DC	O3'-P-O5'	-6.56	91.54	104.00
11	AB	1921	DC	O3'-P-O5'	-6.56	91.54	104.00
11	AB	2539	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	6157	DC	O3'-P-O5'	-6.56	91.53	104.00
11	AB	6336	DC	O3'-P-O5'	-6.56	91.54	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6708	DC	O3'-P-O5'	-6.56	91.54	104.00
43	D8	24	DC	O3'-P-O5'	-6.56	91.53	104.00
55	E9	40	DC	O3'-P-O5'	-6.56	91.54	104.00
56	EA	19	DC	O3'-P-O5'	-6.56	91.54	104.00
94	I3	56	DC	O3'-P-O5'	-6.56	91.54	104.00
130	L7	29	DC	O3'-P-O5'	-6.56	91.54	104.00
153	NA	16	DC	O3'-P-O5'	-6.56	91.54	104.00
156	O2	17	DC	O3'-P-O5'	-6.56	91.54	104.00
159	O6	9	DC	O3'-P-O5'	-6.56	91.54	104.00
11	AB	15	DC	O3'-P-O5'	-6.56	91.54	104.00
11	AB	52	DC	O3'-P-O5'	-6.56	91.54	104.00
11	AB	2919	DC	O3'-P-O5'	-6.56	91.54	104.00
11	AB	6217	DC	O3'-P-O5'	-6.56	91.54	104.00
11	AB	7156	DC	O3'-P-O5'	-6.56	91.54	104.00
25	BD	6	DC	O3'-P-O5'	-6.56	91.54	104.00
48	E1	25	DC	O3'-P-O5'	-6.56	91.54	104.00
154	NC	25	DC	O3'-P-O5'	-6.56	91.54	104.00
168	P5	2	DC	O3'-P-O5'	-6.56	91.54	104.00
209	TA	28	DC	O3'-P-O5'	-6.56	91.54	104.00
211	TD	9	DC	O3'-P-O5'	-6.56	91.54	104.00
11	AB	5199	DC	O3'-P-O5'	-6.56	91.54	104.00
11	AB	6278	DC	O3'-P-O5'	-6.56	91.54	104.00
110	J9	14	DC	O3'-P-O5'	-6.56	91.54	104.00
10	AA	19	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	1039	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	1897	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	2297	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	6330	DC	O3'-P-O5'	-6.55	91.55	104.00
12	AC	17	DC	O3'-P-O5'	-6.55	91.55	104.00
33	C9	19	DC	O3'-P-O5'	-6.55	91.55	104.00
106	J5	20	DC	O3'-P-O5'	-6.55	91.55	104.00
218	UA	10	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	1612	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	40	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	1913	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	4343	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	4812	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	5128	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	6900	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	6939	DC	O3'-P-O5'	-6.55	91.55	104.00
79	GC	13	DC	O3'-P-O5'	-6.55	91.55	104.00
144	MC	3	DC	O3'-P-O5'	-6.55	91.55	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
176	Q2	14	DC	O3'-P-O5'	-6.55	91.55	104.00
191	RA	25	DC	O3'-P-O5'	-6.55	91.55	104.00
197	S7	5	DC	O3'-P-O5'	-6.55	91.55	104.00
225	V8	21	DC	O3'-P-O5'	-6.55	91.55	104.00
11	AB	3679	DC	O3'-P-O5'	-6.55	91.56	104.00
23	BA	9	DC	O3'-P-O5'	-6.55	91.56	104.00
28	C3	7	DC	O3'-P-O5'	-6.55	91.55	104.00
68	FC	6	DC	O3'-P-O5'	-6.55	91.56	104.00
97	I7	32	DC	O3'-P-O5'	-6.55	91.55	104.00
103	J1	23	DC	O3'-P-O5'	-6.55	91.56	104.00
204	T3	43	DC	O3'-P-O5'	-6.55	91.56	104.00
238	X9	2	DC	O3'-P-O5'	-6.55	91.56	104.00
11	AB	914	DC	O3'-P-O5'	-6.55	91.56	104.00
11	AB	4461	DC	O3'-P-O5'	-6.55	91.56	104.00
11	AB	4516	DC	O3'-P-O5'	-6.55	91.56	104.00
119	K7	28	DC	O3'-P-O5'	-6.55	91.56	104.00
11	AB	4062	DC	O3'-P-O5'	-6.55	91.56	104.00
11	AB	5259	DC	O3'-P-O5'	-6.55	91.56	104.00
97	I7	10	DC	O3'-P-O5'	-6.55	91.56	104.00
186	R3	12	DC	O3'-P-O5'	-6.55	91.56	104.00
195	S3	6	DC	O3'-P-O5'	-6.55	91.56	104.00
200	SA	7	DC	O3'-P-O5'	-6.55	91.56	104.00
206	T7	1	DC	O3'-P-O5'	-6.55	91.56	104.00
209	TA	17	DC	O3'-P-O5'	-6.55	91.56	104.00
11	AB	2012	DC	O3'-P-O5'	-6.54	91.56	104.00
11	AB	2237	DC	O3'-P-O5'	-6.54	91.56	104.00
11	AB	2884	DC	O3'-P-O5'	-6.54	91.56	104.00
11	AB	4060	DC	O3'-P-O5'	-6.54	91.56	104.00
38	D2	13	DC	O3'-P-O5'	-6.54	91.56	104.00
109	J8	41	DC	O3'-P-O5'	-6.54	91.56	104.00
173	PA	35	DC	O3'-P-O5'	-6.54	91.56	104.00
11	AB	496	DC	O3'-P-O5'	-6.54	91.57	104.00
11	AB	1076	DC	O3'-P-O5'	-6.54	91.57	104.00
11	AB	1460	DC	O3'-P-O5'	-6.54	91.57	104.00
11	AB	2655	DC	O3'-P-O5'	-6.54	91.57	104.00
11	AB	3912	DC	O3'-P-O5'	-6.54	91.57	104.00
20	B7	8	DC	O3'-P-O5'	-6.54	91.57	104.00
136	M2	7	DC	O3'-P-O5'	-6.54	91.57	104.00
11	AB	5046	DC	O3'-P-O5'	-6.54	91.57	104.00
88	H9	15	DC	O3'-P-O5'	-6.54	91.57	104.00
11	AB	4836	DC	O3'-P-O5'	-6.54	91.57	104.00
11	AB	7011	DC	O3'-P-O5'	-6.54	91.58	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4488	DC	O3'-P-O5'	-6.54	91.58	104.00
11	AB	4919	DC	O3'-P-O5'	-6.54	91.58	104.00
113	JD	32	DC	O3'-P-O5'	-6.54	91.58	104.00
171	P8	26	DT	OP2-P-O3'	6.54	119.58	105.20
204	T3	40	DT	OP2-P-O3'	6.54	119.58	105.20
121	K9	6	DT	OP2-P-O3'	6.53	119.57	105.20
11	AB	3717	DT	OP2-P-O3'	6.53	119.57	105.20
11	AB	5345	DC	O3'-P-O5'	-6.53	91.59	104.00
11	AB	2316	DT	OP2-P-O3'	6.53	119.56	105.20
11	AB	2905	DT	OP2-P-O3'	6.53	119.56	105.20
179	Q7	6	DC	O3'-P-O5'	-6.53	91.60	104.00
11	AB	1425	DT	OP2-P-O3'	6.52	119.55	105.20
11	AB	4161	DT	OP2-P-O3'	6.52	119.55	105.20
140	M7	5	DT	OP2-P-O3'	6.52	119.55	105.20
11	AB	1615	DT	OP2-P-O3'	6.52	119.54	105.20
11	AB	3300	DT	OP2-P-O3'	6.52	119.54	105.20
11	AB	4435	DT	OP2-P-O3'	6.52	119.54	105.20
11	AB	1254	DT	OP2-P-O3'	6.52	119.54	105.20
11	AB	1447	DT	OP2-P-O3'	6.52	119.54	105.20
11	AB	1886	DT	OP2-P-O3'	6.52	119.54	105.20
11	AB	3644	DT	OP2-P-O3'	6.52	119.54	105.20
11	AB	4985	DT	OP2-P-O3'	6.52	119.54	105.20
83	H3	14	DT	OP2-P-O3'	6.52	119.54	105.20
20	B7	16	DT	OP2-P-O3'	6.52	119.53	105.20
11	AB	166	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	1225	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	2937	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	3055	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	3615	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	3911	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	3962	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	3967	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	4173	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	4505	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	5173	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	6353	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	7130	DT	OP2-P-O3'	6.51	119.53	105.20
58	ED	10	DT	OP2-P-O3'	6.51	119.53	105.20
72	G3	12	DT	OP2-P-O3'	6.51	119.53	105.20
72	G3	18	DT	OP2-P-O3'	6.51	119.53	105.20
98	I8	20	DT	OP2-P-O3'	6.51	119.53	105.20
189	R8	34	DT	OP2-P-O3'	6.51	119.53	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
215	U7	17	DT	OP2-P-O3'	6.51	119.53	105.20
235	WD	21	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	80	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	1464	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	2743	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	4811	DT	OP2-P-O3'	6.51	119.53	105.20
210	TC	7	DT	OP2-P-O3'	6.51	119.53	105.20
218	UA	9	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	720	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	2026	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	3732	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	4447	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	6039	DT	OP2-P-O3'	6.51	119.53	105.20
34	CA	14	DT	OP2-P-O3'	6.51	119.53	105.20
177	Q3	17	DT	OP2-P-O3'	6.51	119.53	105.20
11	AB	356	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	580	DA	OP1-P-O3'	6.51	119.52	105.20
11	AB	717	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	1419	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	1467	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	2210	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	2318	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	2651	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	4043	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	4286	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	4825	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	5632	DT	OP2-P-O3'	6.51	119.52	105.20
64	F7	6	DT	OP2-P-O3'	6.51	119.52	105.20
232	W7	21	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	2024	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	2058	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	2635	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	5217	DT	OP2-P-O3'	6.51	119.52	105.20
117	K5	45	DT	OP2-P-O3'	6.51	119.52	105.20
202	SD	22	DT	OP2-P-O3'	6.51	119.52	105.20
208	T9	17	DT	OP2-P-O3'	6.51	119.52	105.20
7	A7	40	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	6	DT	OP2-P-O3'	6.51	119.51	105.20
11	AB	604	DT	OP2-P-O3'	6.51	119.51	105.20
11	AB	772	DT	OP2-P-O3'	6.51	119.51	105.20
11	AB	2461	DT	OP2-P-O3'	6.51	119.51	105.20
11	AB	2739	DT	OP2-P-O3'	6.51	119.52	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B1	40	DT	OP2-P-O3'	6.51	119.52	105.20
205	T5	19	DT	OP2-P-O3'	6.51	119.52	105.20
11	AB	197	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	5676	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	7010	DT	OP2-P-O3'	6.50	119.51	105.20
79	GC	1	DT	OP2-P-O3'	6.50	119.51	105.20
114	K1	41	DT	OP2-P-O3'	6.50	119.51	105.20
159	O6	15	DT	OP2-P-O3'	6.50	119.51	105.20
180	Q8	20	DT	OP2-P-O3'	6.50	119.51	105.20
183	QC	6	DT	OP2-P-O3'	6.50	119.51	105.20
194	S2	21	DT	OP2-P-O3'	6.50	119.51	105.20
208	T9	14	DT	OP2-P-O3'	6.50	119.51	105.20
221	V2	18	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	511	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	903	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	1075	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	2923	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	4396	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	4405	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	4941	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	5032	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	5758	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	6192	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	6550	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	6644	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	7119	DT	OP2-P-O3'	6.50	119.51	105.20
18	B5	1	DT	OP2-P-O3'	6.50	119.51	105.20
30	C6	13	DT	OP2-P-O3'	6.50	119.51	105.20
33	C9	18	DT	OP2-P-O3'	6.50	119.51	105.20
51	E5	5	DT	OP2-P-O3'	6.50	119.51	105.20
62	F5	42	DT	OP2-P-O3'	6.50	119.51	105.20
89	HA	31	DT	OP2-P-O3'	6.50	119.51	105.20
93	I2	47	DT	OP2-P-O3'	6.50	119.51	105.20
118	K6	14	DT	OP2-P-O3'	6.50	119.51	105.20
130	L7	24	DT	OP2-P-O3'	6.50	119.51	105.20
147	N3	33	DT	OP2-P-O3'	6.50	119.51	105.20
161	O8	49	DT	OP2-P-O3'	6.50	119.51	105.20
200	SA	24	DT	OP2-P-O3'	6.50	119.51	105.20
238	X9	11	DT	OP2-P-O3'	6.50	119.51	105.20
11	AB	145	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	518	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	777	DT	OP2-P-O3'	6.50	119.50	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1099	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	1477	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	2534	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	2769	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	2935	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	3063	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	3262	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	3268	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	3295	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	3940	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	5944	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	6851	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	7116	DT	OP2-P-O3'	6.50	119.50	105.20
34	CA	18	DT	OP2-P-O3'	6.50	119.50	105.20
82	H2	11	DT	OP2-P-O3'	6.50	119.50	105.20
95	I5	6	DT	OP2-P-O3'	6.50	119.50	105.20
103	J1	22	DT	OP2-P-O3'	6.50	119.50	105.20
145	MD	21	DT	OP2-P-O3'	6.50	119.50	105.20
149	N6	41	DT	OP2-P-O3'	6.50	119.50	105.20
187	R5	40	DT	OP2-P-O3'	6.50	119.50	105.20
203	T2	23	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	33	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	116	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	3711	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	5698	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	6465	DT	OP2-P-O3'	6.50	119.50	105.20
23	BA	14	DT	OP2-P-O3'	6.50	119.50	105.20
36	CD	22	DT	OP2-P-O3'	6.50	119.50	105.20
127	L3	10	DT	OP2-P-O3'	6.50	119.50	105.20
7	A7	22	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	311	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	960	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	1491	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	1601	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	1645	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	1661	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	2845	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	3210	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	3253	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	3625	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	4346	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	4695	DT	OP2-P-O3'	6.50	119.50	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5105	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	5917	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	5959	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	6081	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	6144	DT	OP2-P-O3'	6.50	119.50	105.20
11	AB	6839	DT	OP2-P-O3'	6.50	119.50	105.20
31	C7	16	DT	OP2-P-O3'	6.50	119.50	105.20
39	D3	12	DT	OP2-P-O3'	6.50	119.50	105.20
58	ED	35	DT	OP2-P-O3'	6.50	119.50	105.20
62	F5	13	DT	OP2-P-O3'	6.50	119.50	105.20
82	H2	28	DT	OP2-P-O3'	6.50	119.50	105.20
94	I3	13	DT	OP2-P-O3'	6.50	119.50	105.20
100	IA	20	DT	OP2-P-O3'	6.50	119.50	105.20
131	L8	6	DT	OP2-P-O3'	6.50	119.50	105.20
148	N5	10	DT	OP2-P-O3'	6.50	119.50	105.20
176	Q2	10	DT	OP2-P-O3'	6.50	119.50	105.20
178	Q5	36	DT	OP2-P-O3'	6.50	119.50	105.20
204	T3	12	DT	OP2-P-O3'	6.50	119.50	105.20
220	UD	5	DT	OP2-P-O3'	6.50	119.50	105.20
220	UD	17	DT	OP2-P-O3'	6.50	119.50	105.20
230	W3	45	DT	OP2-P-O3'	6.50	119.50	105.20
232	W7	16	DT	OP2-P-O3'	6.50	119.50	105.20
232	W7	24	DT	OP2-P-O3'	6.50	119.50	105.20
237	X7	11	DT	OP2-P-O3'	6.50	119.50	105.20
1	A1	30	DT	OP2-P-O3'	6.50	119.49	105.20
5	A5	33	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	234	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	249	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	470	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	533	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	1265	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	1690	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	2236	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	2412	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	3139	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	3411	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	4158	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	4691	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	5281	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	5510	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	6111	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	6195	DT	OP2-P-O3'	6.50	119.49	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6484	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	6722	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	7167	DT	OP2-P-O3'	6.50	119.49	105.20
21	B8	7	DT	OP2-P-O3'	6.50	119.49	105.20
26	C1	24	DT	OP2-P-O3'	6.50	119.49	105.20
39	D3	7	DT	OP2-P-O3'	6.50	119.49	105.20
45	DA	6	DT	OP2-P-O3'	6.50	119.49	105.20
130	L7	31	DT	OP2-P-O3'	6.50	119.49	105.20
138	M5	12	DT	OP2-P-O3'	6.50	119.49	105.20
144	MC	18	DT	OP2-P-O3'	6.50	119.49	105.20
145	MD	26	DT	OP2-P-O3'	6.50	119.49	105.20
155	ND	4	DT	OP2-P-O3'	6.50	119.49	105.20
156	O2	4	DT	OP2-P-O3'	6.50	119.49	105.20
164	OC	5	DT	OP2-P-O3'	6.50	119.49	105.20
179	Q7	17	DT	OP2-P-O3'	6.50	119.49	105.20
180	Q8	15	DT	OP2-P-O3'	6.50	119.49	105.20
186	R3	17	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	888	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	1122	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	1585	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	2250	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	2276	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	2853	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	3345	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	4460	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	4882	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	6432	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	6910	DT	OP2-P-O3'	6.50	119.49	105.20
11	AB	6914	DT	OP2-P-O3'	6.50	119.49	105.20
133	LA	14	DT	OP2-P-O3'	6.50	119.49	105.20
166	P2	19	DT	OP2-P-O3'	6.50	119.49	105.20
187	R5	15	DT	OP2-P-O3'	6.50	119.49	105.20
10	AA	7	DT	OP2-P-O3'	6.49	119.49	105.20
11	AB	587	DT	OP2-P-O3'	6.49	119.49	105.20
11	AB	966	DT	OP2-P-O3'	6.49	119.49	105.20
11	AB	2175	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	2265	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	2787	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	3589	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	3903	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	4367	DT	OP2-P-O3'	6.49	119.49	105.20
11	AB	5378	DT	OP2-P-O3'	6.49	119.49	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5477	DT	OP2-P-O3'	6.49	119.49	105.20
11	AB	5935	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6791	DT	OP2-P-O3'	6.49	119.49	105.20
23	BA	7	DT	OP2-P-O3'	6.49	119.49	105.20
23	BA	26	DT	OP2-P-O3'	6.49	119.49	105.20
64	F7	21	DT	OP2-P-O3'	6.49	119.48	105.20
92	I1	7	DT	OP2-P-O3'	6.49	119.49	105.20
142	M9	17	DT	OP2-P-O3'	6.49	119.49	105.20
147	N3	16	DT	OP2-P-O3'	6.49	119.49	105.20
153	NA	8	DT	OP2-P-O3'	6.49	119.49	105.20
158	O5	47	DT	OP2-P-O3'	6.49	119.49	105.20
163	OA	17	DT	OP2-P-O3'	6.49	119.49	105.20
217	U9	15	DT	OP2-P-O3'	6.49	119.48	105.20
5	A5	6	DT	OP2-P-O3'	6.49	119.48	105.20
7	A7	36	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	219	DA	OP1-P-O3'	6.49	119.48	105.20
11	AB	494	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	1173	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	1250	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	2553	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	3601	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	3748	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	4166	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	4933	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6052	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6275	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6382	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6711	DT	OP2-P-O3'	6.49	119.48	105.20
49	E2	12	DT	OP2-P-O3'	6.49	119.48	105.20
111	JA	16	DT	OP2-P-O3'	6.49	119.48	105.20
128	L5	2	DT	OP2-P-O3'	6.49	119.48	105.20
160	O7	44	DT	OP2-P-O3'	6.49	119.48	105.20
166	P2	23	DT	OP2-P-O3'	6.49	119.48	105.20
179	Q7	11	DT	OP2-P-O3'	6.49	119.48	105.20
193	RD	18	DT	OP2-P-O3'	6.49	119.48	105.20
211	TD	29	DT	OP2-P-O3'	6.49	119.48	105.20
231	W5	15	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	876	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	1656	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	1713	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	1742	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	1894	DT	OP2-P-O3'	6.49	119.48	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2528	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	2649	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	3075	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	3120	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	3236	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	3640	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	4503	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	5139	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	5404	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	5721	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	5925	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6106	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6313	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6570	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6854	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6979	DT	OP2-P-O3'	6.49	119.48	105.20
26	C1	13	DT	OP2-P-O3'	6.49	119.48	105.20
36	CD	8	DT	OP2-P-O3'	6.49	119.48	105.20
82	H2	7	DT	OP2-P-O3'	6.49	119.48	105.20
91	HD	27	DT	OP2-P-O3'	6.49	119.48	105.20
93	I2	39	DT	OP2-P-O3'	6.49	119.48	105.20
100	IA	7	DT	OP2-P-O3'	6.49	119.48	105.20
120	K8	1	DT	OP2-P-O3'	6.49	119.48	105.20
145	MD	3	DT	OP2-P-O3'	6.49	119.48	105.20
150	N7	8	DT	OP2-P-O3'	6.49	119.48	105.20
158	O5	40	DT	OP2-P-O3'	6.49	119.48	105.20
167	P3	15	DT	OP2-P-O3'	6.49	119.48	105.20
204	T3	27	DT	OP2-P-O3'	6.49	119.48	105.20
214	U5	2	DT	OP2-P-O3'	6.49	119.48	105.20
226	V9	17	DT	OP2-P-O3'	6.49	119.48	105.20
7	A7	5	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	671	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	1498	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	2207	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	2520	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	2646	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	2971	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	3662	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	4835	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	5530	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	6277	DT	OP2-P-O3'	6.49	119.48	105.20
11	AB	6865	DT	OP2-P-O3'	6.49	119.47	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7140	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	7171	DT	OP2-P-O3'	6.49	119.48	105.20
48	E1	1	DT	OP2-P-O3'	6.49	119.47	105.20
55	E9	24	DT	OP2-P-O3'	6.49	119.47	105.20
67	FA	11	DT	OP2-P-O3'	6.49	119.48	105.20
82	H2	33	DT	OP2-P-O3'	6.49	119.47	105.20
84	H5	37	DT	OP2-P-O3'	6.49	119.47	105.20
98	I8	11	DT	OP2-P-O3'	6.49	119.47	105.20
107	J6	26	DT	OP2-P-O3'	6.49	119.47	105.20
129	L6	20	DT	OP2-P-O3'	6.49	119.48	105.20
134	LC	20	DT	OP2-P-O3'	6.49	119.47	105.20
197	S7	14	DT	OP2-P-O3'	6.49	119.47	105.20
215	U7	6	DT	OP2-P-O3'	6.49	119.48	105.20
220	UD	12	DT	OP2-P-O3'	6.49	119.48	105.20
223	V5	24	DT	OP2-P-O3'	6.49	119.47	105.20
228	VC	17	DT	OP2-P-O3'	6.49	119.47	105.20
233	W8	7	DT	OP2-P-O3'	6.49	119.47	105.20
238	X9	32	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	57	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	520	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	1435	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	1737	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	3527	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	3630	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	3858	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	4040	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	4218	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	4501	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	4918	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	5094	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	6334	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	6358	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	6725	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	7020	DT	OP2-P-O3'	6.49	119.47	105.20
52	E6	25	DT	OP2-P-O3'	6.49	119.47	105.20
54	E8	33	DT	OP2-P-O3'	6.49	119.47	105.20
130	L7	20	DT	OP2-P-O3'	6.49	119.47	105.20
186	R3	14	DT	OP2-P-O3'	6.49	119.47	105.20
234	W9	9	DT	OP2-P-O3'	6.49	119.47	105.20
6	A6	15	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	173	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	625	DT	OP2-P-O3'	6.49	119.47	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	918	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	1276	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	1305	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	1333	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	1580	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	1800	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	1925	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	2445	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	2612	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	3511	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	3559	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	3564	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	4210	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	4978	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	5100	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	5450	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	5662	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	5908	DC	O3'-P-O5'	-6.49	91.68	104.00
11	AB	6181	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	6201	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	6240	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	6394	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	6612	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	6689	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	6741	DT	OP2-P-O3'	6.49	119.47	105.20
14	B1	4	DT	OP2-P-O3'	6.49	119.47	105.20
49	E2	18	DT	OP2-P-O3'	6.49	119.47	105.20
51	E5	9	DT	OP2-P-O3'	6.49	119.47	105.20
79	GC	15	DT	OP2-P-O3'	6.49	119.47	105.20
122	KA	17	DT	OP2-P-O3'	6.49	119.47	105.20
139	M6	9	DT	OP2-P-O3'	6.49	119.47	105.20
145	MD	11	DT	OP2-P-O3'	6.49	119.47	105.20
156	O2	1	DT	OP2-P-O3'	6.49	119.47	105.20
167	P3	7	DT	OP2-P-O3'	6.49	119.47	105.20
178	Q5	11	DT	OP2-P-O3'	6.49	119.47	105.20
214	U5	25	DT	OP2-P-O3'	6.49	119.47	105.20
219	UC	23	DT	OP2-P-O3'	6.49	119.47	105.20
226	V9	12	DT	OP2-P-O3'	6.49	119.47	105.20
11	AB	39	DT	OP2-P-O3'	6.48	119.47	105.20
11	AB	51	DT	OP2-P-O3'	6.48	119.47	105.20
11	AB	1599	DT	OP2-P-O3'	6.48	119.47	105.20
11	AB	2672	DT	OP2-P-O3'	6.48	119.46	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2914	DT	OP2-P-O3'	6.48	119.47	105.20
11	AB	3144	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3186	DT	OP2-P-O3'	6.48	119.47	105.20
11	AB	3342	DT	OP2-P-O3'	6.48	119.47	105.20
11	AB	3453	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3942	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	4171	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	4230	DT	OP2-P-O3'	6.48	119.47	105.20
11	AB	5375	DT	OP2-P-O3'	6.48	119.47	105.20
11	AB	5601	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	6061	DT	OP2-P-O3'	6.48	119.47	105.20
11	AB	6977	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	7238	DT	OP2-P-O3'	6.48	119.47	105.20
24	BC	38	DA	OP1-P-O3'	6.48	119.46	105.20
161	O8	37	DT	OP2-P-O3'	6.48	119.47	105.20
209	TA	40	DT	OP2-P-O3'	6.48	119.47	105.20
11	AB	227	DA	OP1-P-O3'	6.48	119.46	105.20
11	AB	1108	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	1625	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	1871	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	1953	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	2099	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	2204	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	2453	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	2875	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3046	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3109	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3451	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3694	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3829	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3974	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3989	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	4192	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	4301	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	4339	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	5460	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	6138	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	6156	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	6283	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	6477	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	6532	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	6785	DT	OP2-P-O3'	6.48	119.46	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7137	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	7204	DT	OP2-P-O3'	6.48	119.46	105.20
75	G7	14	DT	OP2-P-O3'	6.48	119.46	105.20
93	I2	4	DT	OP2-P-O3'	6.48	119.46	105.20
99	I9	15	DT	OP2-P-O3'	6.48	119.46	105.20
101	IC	26	DT	OP2-P-O3'	6.48	119.46	105.20
114	K1	23	DT	OP2-P-O3'	6.48	119.46	105.20
187	R5	30	DT	OP2-P-O3'	6.48	119.46	105.20
191	RA	24	DT	OP2-P-O3'	6.48	119.46	105.20
208	T9	20	DT	OP2-P-O3'	6.48	119.46	105.20
1	A1	51	DT	OP2-P-O3'	6.48	119.46	105.20
4	A4	16	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	185	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	948	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	1473	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	1672	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	1903	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	1992	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	2108	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	2480	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	2663	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3112	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3283	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	3949	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	4182	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	4529	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	4595	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	5158	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	5762	DA	OP1-P-O3'	6.48	119.46	105.20
11	AB	6576	DA	OP1-P-O3'	6.48	119.46	105.20
11	AB	6604	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	6861	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	7053	DT	OP2-P-O3'	6.48	119.46	105.20
21	B8	10	DT	OP2-P-O3'	6.48	119.46	105.20
21	B8	19	DT	OP2-P-O3'	6.48	119.46	105.20
37	D1	27	DT	OP2-P-O3'	6.48	119.46	105.20
43	D8	19	DT	OP2-P-O3'	6.48	119.45	105.20
54	E8	14	DT	OP2-P-O3'	6.48	119.46	105.20
56	EA	17	DT	OP2-P-O3'	6.48	119.46	105.20
70	G1	13	DT	OP2-P-O3'	6.48	119.45	105.20
91	HD	10	DT	OP2-P-O3'	6.48	119.46	105.20
117	K5	12	DT	OP2-P-O3'	6.48	119.46	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
119	K7	7	DT	OP2-P-O3'	6.48	119.46	105.20
138	M5	29	DT	OP2-P-O3'	6.48	119.46	105.20
140	M7	1	DT	OP2-P-O3'	6.48	119.46	105.20
161	O8	42	DT	OP2-P-O3'	6.48	119.46	105.20
179	Q7	5	DT	OP2-P-O3'	6.48	119.46	105.20
209	TA	3	DT	OP2-P-O3'	6.48	119.46	105.20
211	TD	37	DT	OP2-P-O3'	6.48	119.46	105.20
213	U3	3	DT	OP2-P-O3'	6.48	119.46	105.20
11	AB	575	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	611	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	757	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	1692	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	2880	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	3523	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	4198	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	4593	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	4641	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	4734	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	5097	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	5508	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	5590	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	6546	DT	OP2-P-O3'	6.48	119.45	105.20
57	EC	1	DT	OP2-P-O3'	6.48	119.45	105.20
72	G3	1	DT	OP2-P-O3'	6.48	119.45	105.20
84	H5	30	DT	OP2-P-O3'	6.48	119.45	105.20
122	KA	30	DT	OP2-P-O3'	6.48	119.45	105.20
126	L2	18	DT	OP2-P-O3'	6.48	119.45	105.20
127	L3	18	DT	OP2-P-O3'	6.48	119.45	105.20
149	N6	10	DT	OP2-P-O3'	6.48	119.45	105.20
161	O8	15	DT	OP2-P-O3'	6.48	119.45	105.20
194	S2	1	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	195	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	394	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	569	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	573	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	847	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	1246	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	1352	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	1931	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	2252	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	2397	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	3318	DT	OP2-P-O3'	6.48	119.45	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4147	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	4204	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	5213	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	5528	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	5565	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	6076	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	6271	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	6502	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	6796	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	6902	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	7148	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	7181	DT	OP2-P-O3'	6.48	119.45	105.20
14	B1	37	DT	OP2-P-O3'	6.48	119.45	105.20
35	CC	14	DT	OP2-P-O3'	6.48	119.45	105.20
83	H3	27	DT	OP2-P-O3'	6.48	119.45	105.20
108	J7	27	DT	OP2-P-O3'	6.48	119.45	105.20
156	O2	22	DT	OP2-P-O3'	6.48	119.45	105.20
188	R7	19	DT	OP2-P-O3'	6.48	119.45	105.20
195	S3	13	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	190	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	201	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	1510	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	3436	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	3792	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	4254	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	5479	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	5788	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	6429	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	6707	DT	OP2-P-O3'	6.48	119.45	105.20
11	AB	6806	DT	OP2-P-O3'	6.48	119.45	105.20
30	C6	10	DT	OP2-P-O3'	6.48	119.45	105.20
64	F7	16	DT	OP2-P-O3'	6.48	119.45	105.20
137	M3	28	DT	OP2-P-O3'	6.48	119.45	105.20
167	P3	34	DT	OP2-P-O3'	6.48	119.45	105.20
197	S7	19	DT	OP2-P-O3'	6.48	119.45	105.20
199	S9	14	DT	OP2-P-O3'	6.48	119.45	105.20
3	A3	1	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	417	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	447	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	812	DT	OP2-P-O3'	6.47	119.45	105.20
11	AB	933	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	1242	DT	OP2-P-O3'	6.47	119.44	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1555	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	2151	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	2606	DA	OP1-P-O3'	6.47	119.44	105.20
11	AB	2608	DT	OP2-P-O3'	6.47	119.45	105.20
11	AB	2657	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	3148	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	3207	DC	O3'-P-O5'	-6.47	91.70	104.00
11	AB	3834	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	4012	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	4522	DA	OP1-P-O3'	6.47	119.44	105.20
11	AB	4614	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	4828	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	5396	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	5453	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	5983	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	6880	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	6885	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	6960	DT	OP2-P-O3'	6.47	119.44	105.20
33	C9	3	DT	OP2-P-O3'	6.47	119.44	105.20
59	F1	6	DT	OP2-P-O3'	6.47	119.44	105.20
62	F5	6	DT	OP2-P-O3'	6.47	119.45	105.20
95	I5	10	DA	OP1-P-O3'	6.47	119.44	105.20
104	J2	31	DT	OP2-P-O3'	6.47	119.44	105.20
125	L1	19	DT	OP2-P-O3'	6.47	119.44	105.20
149	N6	6	DT	OP2-P-O3'	6.47	119.44	105.20
164	OC	19	DT	OP2-P-O3'	6.47	119.44	105.20
165	OD	43	DT	OP2-P-O3'	6.47	119.45	105.20
171	P8	10	DT	OP2-P-O3'	6.47	119.44	105.20
178	Q5	21	DT	OP2-P-O3'	6.47	119.45	105.20
192	RC	22	DT	OP2-P-O3'	6.47	119.44	105.20
209	TA	20	DT	OP2-P-O3'	6.47	119.44	105.20
3	A3	11	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	75	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	585	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	1047	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	1386	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	1524	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	1636	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	1813	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	3324	DA	OP1-P-O3'	6.47	119.44	105.20
11	AB	3762	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	3826	DT	OP2-P-O3'	6.47	119.44	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3920	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	4320	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	4385	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	4543	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	5077	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	5185	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	5545	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	6104	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	6133	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	6525	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	6534	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	7185	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	7226	DT	OP2-P-O3'	6.47	119.44	105.20
22	B9	19	DT	OP2-P-O3'	6.47	119.44	105.20
59	F1	12	DT	OP2-P-O3'	6.47	119.44	105.20
73	G5	4	DT	OP2-P-O3'	6.47	119.44	105.20
120	K8	20	DT	OP2-P-O3'	6.47	119.44	105.20
172	P9	24	DT	OP2-P-O3'	6.47	119.44	105.20
187	R5	32	DT	OP2-P-O3'	6.47	119.44	105.20
210	TC	29	DA	OP1-P-O3'	6.47	119.44	105.20
230	W3	30	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	1167	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	2485	DA	OP1-P-O3'	6.47	119.44	105.20
11	AB	2610	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	3646	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	4394	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	6579	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	7213	DA	OP1-P-O3'	6.47	119.44	105.20
17	B4	19	DT	OP2-P-O3'	6.47	119.44	105.20
19	B6	21	DT	OP2-P-O3'	6.47	119.44	105.20
103	J1	16	DT	OP2-P-O3'	6.47	119.44	105.20
128	L5	13	DT	OP2-P-O3'	6.47	119.44	105.20
131	L8	10	DA	OP1-P-O3'	6.47	119.44	105.20
11	AB	563	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	825	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	1071	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	1206	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	1694	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	1959	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	2424	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	2691	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	2822	DT	OP2-P-O3'	6.47	119.44	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2842	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	2968	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	4000	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	4545	DT	OP2-P-O3'	6.47	119.44	105.20
11	AB	5470	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	5700	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	6215	DT	OP2-P-O3'	6.47	119.44	105.20
13	AD	8	DT	OP2-P-O3'	6.47	119.43	105.20
32	C8	43	DT	OP2-P-O3'	6.47	119.43	105.20
45	DA	24	DT	OP2-P-O3'	6.47	119.43	105.20
61	F3	3	DT	OP2-P-O3'	6.47	119.43	105.20
82	H2	17	DT	OP2-P-O3'	6.47	119.43	105.20
93	I2	8	DT	OP2-P-O3'	6.47	119.43	105.20
130	L7	37	DA	OP1-P-O3'	6.47	119.43	105.20
149	N6	31	DT	OP2-P-O3'	6.47	119.44	105.20
161	O8	8	DA	OP1-P-O3'	6.47	119.44	105.20
184	QD	22	DT	OP2-P-O3'	6.47	119.43	105.20
213	U3	21	DT	OP2-P-O3'	6.47	119.44	105.20
214	U5	37	DA	OP1-P-O3'	6.47	119.43	105.20
11	AB	2836	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	3084	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	3271	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	4805	DT	OP2-P-O3'	6.47	119.43	105.20
16	B3	5	DA	OP1-P-O3'	6.47	119.43	105.20
174	PC	25	DA	OP1-P-O3'	6.47	119.43	105.20
207	T8	20	DT	OP2-P-O3'	6.47	119.43	105.20
231	W5	31	DT	OP2-P-O3'	6.47	119.43	105.20
234	W9	15	DA	OP1-P-O3'	6.47	119.43	105.20
11	AB	287	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	621	DA	OP1-P-O3'	6.47	119.43	105.20
11	AB	822	DT	OP2-P-O3'	6.47	119.42	105.20
11	AB	1597	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	1654	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	1832	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	2141	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	3002	DT	OP2-P-O3'	6.47	119.42	105.20
11	AB	3508	DT	OP2-P-O3'	6.47	119.42	105.20
11	AB	4728	DT	OP2-P-O3'	6.47	119.43	105.20
11	AB	4853	DA	OP1-P-O3'	6.47	119.42	105.20
11	AB	5300	DA	OP1-P-O3'	6.47	119.42	105.20
11	AB	6405	DA	OP1-P-O3'	6.47	119.43	105.20
39	D3	5	DT	OP2-P-O3'	6.47	119.43	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	E8	17	DT	OP2-P-O3'	6.47	119.43	105.20
55	E9	16	DT	OP2-P-O3'	6.47	119.43	105.20
58	ED	28	DA	OP1-P-O3'	6.47	119.42	105.20
58	ED	38	DT	OP2-P-O3'	6.47	119.43	105.20
62	F5	32	DT	OP2-P-O3'	6.47	119.42	105.20
86	H7	19	DA	OP1-P-O3'	6.47	119.43	105.20
107	J6	6	DT	OP2-P-O3'	6.47	119.43	105.20
113	JD	9	DA	OP1-P-O3'	6.47	119.43	105.20
128	L5	15	DA	OP1-P-O3'	6.47	119.43	105.20
135	LD	16	DT	OP2-P-O3'	6.47	119.43	105.20
138	M5	27	DA	OP1-P-O3'	6.47	119.43	105.20
146	N2	4	DT	OP2-P-O3'	6.47	119.42	105.20
171	P8	6	DT	OP2-P-O3'	6.47	119.42	105.20
192	RC	26	DT	OP2-P-O3'	6.47	119.43	105.20
224	V7	14	DT	OP2-P-O3'	6.47	119.42	105.20
10	AA	25	DA	OP1-P-O3'	6.46	119.42	105.20
11	AB	1184	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	1229	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	1561	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	1834	DA	OP1-P-O3'	6.46	119.42	105.20
11	AB	2695	DA	OP1-P-O3'	6.46	119.42	105.20
11	AB	3158	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	5197	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	5512	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	6125	DA	OP1-P-O3'	6.46	119.42	105.20
11	AB	6820	DA	OP1-P-O3'	6.46	119.42	105.20
13	AD	13	DA	OP1-P-O3'	6.46	119.42	105.20
28	C3	17	DA	OP1-P-O3'	6.46	119.42	105.20
43	D8	30	DT	OP2-P-O3'	6.46	119.42	105.20
47	DD	7	DT	OP2-P-O3'	6.46	119.42	105.20
67	FA	26	DA	OP1-P-O3'	6.46	119.42	105.20
95	I5	31	DA	OP1-P-O3'	6.46	119.42	105.20
101	IC	16	DT	OP2-P-O3'	6.46	119.42	105.20
109	J8	17	DT	OP2-P-O3'	6.46	119.42	105.20
142	M9	4	DA	OP1-P-O3'	6.46	119.42	105.20
146	N2	2	DA	OP1-P-O3'	6.46	119.42	105.20
195	S3	25	DA	OP1-P-O3'	6.46	119.42	105.20
209	TA	23	DT	OP2-P-O3'	6.46	119.42	105.20
230	W3	5	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	593	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	2338	DA	OP1-P-O3'	6.46	119.42	105.20
11	AB	3494	DT	OP2-P-O3'	6.46	119.42	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4225	DA	OP1-P-O3'	6.46	119.42	105.20
11	AB	6658	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	6995	DT	OP2-P-O3'	6.46	119.42	105.20
147	N3	11	DA	OP1-P-O3'	6.46	119.42	105.20
198	S8	13	DT	OP2-P-O3'	6.46	119.42	105.20
198	S8	28	DA	OP1-P-O3'	6.46	119.42	105.20
213	U3	18	DA	OP1-P-O3'	6.46	119.42	105.20
223	V5	4	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	421	DA	OP1-P-O3'	6.46	119.42	105.20
11	AB	1189	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	2839	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	4006	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	4152	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	5000	DA	OP1-P-O3'	6.46	119.42	105.20
11	AB	5599	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	5693	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	5717	DA	OP1-P-O3'	6.46	119.42	105.20
11	AB	5940	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	6185	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	6411	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	6510	DA	OP1-P-O3'	6.46	119.42	105.20
11	AB	6687	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	6947	DT	OP2-P-O3'	6.46	119.42	105.20
55	E9	12	DA	OP1-P-O3'	6.46	119.42	105.20
65	F8	5	DT	OP2-P-O3'	6.46	119.42	105.20
72	G3	9	DT	OP2-P-O3'	6.46	119.42	105.20
77	G9	9	DA	OP1-P-O3'	6.46	119.41	105.20
78	GA	7	DA	OP1-P-O3'	6.46	119.42	105.20
89	HA	19	DA	OP1-P-O3'	6.46	119.42	105.20
93	I2	14	DA	OP1-P-O3'	6.46	119.42	105.20
95	I5	29	DA	OP1-P-O3'	6.46	119.42	105.20
106	J5	26	DA	OP1-P-O3'	6.46	119.42	105.20
109	J8	1	DA	OP1-P-O3'	6.46	119.42	105.20
110	J9	9	DA	OP1-P-O3'	6.46	119.42	105.20
150	N7	4	DA	OP1-P-O3'	6.46	119.42	105.20
154	NC	5	DA	OP1-P-O3'	6.46	119.42	105.20
156	O2	58	DA	OP1-P-O3'	6.46	119.42	105.20
157	O3	9	DA	OP1-P-O3'	6.46	119.41	105.20
171	P8	13	DT	OP2-P-O3'	6.46	119.42	105.20
181	Q9	14	DT	OP2-P-O3'	6.46	119.42	105.20
11	AB	377	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	842	DT	OP2-P-O3'	6.46	119.41	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2614	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	2686	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	2991	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	4869	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	4946	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	6086	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	6089	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	6818	DT	OP2-P-O3'	6.46	119.41	105.20
44	D9	16	DA	OP1-P-O3'	6.46	119.41	105.20
128	L5	5	DT	OP2-P-O3'	6.46	119.41	105.20
149	N6	38	DT	OP2-P-O3'	6.46	119.41	105.20
156	O2	13	DT	OP2-P-O3'	6.46	119.41	105.20
210	TC	15	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	2183	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	2683	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	4082	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	4109	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	6409	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	6869	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	7057	DT	OP2-P-O3'	6.46	119.41	105.20
43	D8	32	DA	OP1-P-O3'	6.46	119.41	105.20
47	DD	24	DA	OP1-P-O3'	6.46	119.41	105.20
48	E1	10	DA	OP1-P-O3'	6.46	119.41	105.20
71	G2	7	DT	OP2-P-O3'	6.46	119.41	105.20
83	H3	23	DA	OP1-P-O3'	6.46	119.41	105.20
98	I8	24	DA	OP1-P-O3'	6.46	119.41	105.20
143	MA	19	DA	OP1-P-O3'	6.46	119.41	105.20
152	N9	44	DA	OP1-P-O3'	6.46	119.41	105.20
163	OA	13	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	358	DA	OP1-P-O3'	6.46	119.40	105.20
11	AB	633	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	836	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	2587	DA	OP1-P-O3'	6.46	119.40	105.20
11	AB	3313	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	5859	DA	OP1-P-O3'	6.46	119.40	105.20
11	AB	6594	DA	OP1-P-O3'	6.46	119.41	105.20
11	AB	6720	DT	OP2-P-O3'	6.46	119.41	105.20
11	AB	6938	DT	OP2-P-O3'	6.46	119.41	105.20
49	E2	29	DA	OP1-P-O3'	6.46	119.41	105.20
106	J5	13	DA	OP1-P-O3'	6.46	119.40	105.20
143	MA	29	DA	OP1-P-O3'	6.46	119.41	105.20
147	N3	3	DA	OP1-P-O3'	6.46	119.40	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
156	O2	27	DA	OP1-P-O3'	6.46	119.40	105.20
180	Q8	25	DA	OP1-P-O3'	6.46	119.41	105.20
190	R9	22	DA	OP1-P-O3'	6.46	119.40	105.20
238	X9	19	DA	OP1-P-O3'	6.46	119.40	105.20
11	AB	3010	DT	OP2-P-O3'	6.46	119.40	105.20
11	AB	5074	DT	OP2-P-O3'	6.46	119.40	105.20
11	AB	5520	DA	OP1-P-O3'	6.46	119.40	105.20
13	AD	21	DA	OP1-P-O3'	6.46	119.40	105.20
18	B5	36	DT	OP2-P-O3'	6.46	119.40	105.20
36	CD	25	DT	OP2-P-O3'	6.46	119.40	105.20
39	D3	25	DA	OP1-P-O3'	6.46	119.40	105.20
51	E5	15	DA	OP1-P-O3'	6.46	119.40	105.20
105	J3	32	DA	OP1-P-O3'	6.46	119.40	105.20
148	N5	13	DT	OP2-P-O3'	6.46	119.40	105.20
160	O7	46	DA	OP1-P-O3'	6.46	119.40	105.20
221	V2	14	DA	OP1-P-O3'	6.46	119.40	105.20
11	AB	451	DA	OP1-P-O3'	6.45	119.40	105.20
11	AB	674	DA	OP1-P-O3'	6.45	119.40	105.20
11	AB	710	DT	OP2-P-O3'	6.45	119.40	105.20
11	AB	1948	DA	OP1-P-O3'	6.45	119.40	105.20
11	AB	3122	DA	OP1-P-O3'	6.45	119.40	105.20
11	AB	4664	DA	OP1-P-O3'	6.45	119.40	105.20
11	AB	5862	DT	OP2-P-O3'	6.45	119.40	105.20
11	AB	6339	DA	OP1-P-O3'	6.45	119.40	105.20
11	AB	6799	DA	OP1-P-O3'	6.45	119.40	105.20
11	AB	6877	DA	OP1-P-O3'	6.45	119.40	105.20
11	AB	7044	DT	OP2-P-O3'	6.45	119.40	105.20
11	AB	7064	DA	OP1-P-O3'	6.45	119.40	105.20
41	D6	2	DA	OP1-P-O3'	6.45	119.40	105.20
45	DA	12	DA	OP1-P-O3'	6.45	119.40	105.20
45	DA	21	DA	OP1-P-O3'	6.45	119.40	105.20
83	H3	25	DA	OP1-P-O3'	6.45	119.40	105.20
99	I9	9	DA	OP1-P-O3'	6.45	119.40	105.20
108	J7	33	DA	OP1-P-O3'	6.45	119.40	105.20
117	K5	2	DA	OP1-P-O3'	6.45	119.40	105.20
138	M5	5	DA	OP1-P-O3'	6.45	119.40	105.20
151	N8	1	DA	OP1-P-O3'	6.45	119.40	105.20
185	R2	18	DA	OP1-P-O3'	6.45	119.40	105.20
204	T3	30	DA	OP1-P-O3'	6.45	119.40	105.20
212	U2	18	DT	OP2-P-O3'	6.45	119.40	105.20
223	V5	20	DA	OP1-P-O3'	6.45	119.40	105.20
228	VC	28	DA	OP1-P-O3'	6.45	119.40	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1912	DT	OP2-P-O3'	6.45	119.39	105.20
11	AB	1935	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	4770	DT	OP2-P-O3'	6.45	119.39	105.20
11	AB	5458	DT	OP2-P-O3'	6.45	119.39	105.20
35	CC	6	DA	OP1-P-O3'	6.45	119.39	105.20
39	D3	19	DA	OP1-P-O3'	6.45	119.39	105.20
91	HD	21	DA	OP1-P-O3'	6.45	119.39	105.20
93	I2	20	DA	OP1-P-O3'	6.45	119.39	105.20
94	I3	36	DA	OP1-P-O3'	6.45	119.39	105.20
168	P5	8	DA	OP1-P-O3'	6.45	119.39	105.20
173	PA	6	DA	OP1-P-O3'	6.45	119.39	105.20
184	QD	19	DT	OP2-P-O3'	6.45	119.39	105.20
186	R3	10	DA	OP1-P-O3'	6.45	119.39	105.20
188	R7	24	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	69	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	815	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	3165	DT	OP2-P-O3'	6.45	119.39	105.20
11	AB	4453	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	4660	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	4756	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	5588	DT	OP2-P-O3'	6.45	119.39	105.20
11	AB	6875	DT	OP2-P-O3'	6.45	119.39	105.20
17	B4	15	DA	OP1-P-O3'	6.45	119.39	105.20
17	B4	17	DA	OP1-P-O3'	6.45	119.39	105.20
32	C8	35	DA	OP1-P-O3'	6.45	119.39	105.20
38	D2	5	DA	OP1-P-O3'	6.45	119.39	105.20
55	E9	42	DA	OP1-P-O3'	6.45	119.39	105.20
57	EC	22	DA	OP1-P-O3'	6.45	119.39	105.20
59	F1	3	DA	OP1-P-O3'	6.45	119.39	105.20
65	F8	17	DA	OP1-P-O3'	6.45	119.39	105.20
71	G2	9	DA	OP1-P-O3'	6.45	119.39	105.20
123	KC	10	DA	OP1-P-O3'	6.45	119.39	105.20
125	L1	52	DA	OP1-P-O3'	6.45	119.39	105.20
150	N7	21	DA	OP1-P-O3'	6.45	119.39	105.20
170	P7	6	DT	OP2-P-O3'	6.45	119.39	105.20
205	T5	7	DT	OP2-P-O3'	6.45	119.39	105.20
223	V5	36	DA	OP1-P-O3'	6.45	119.39	105.20
228	VC	23	DA	OP1-P-O3'	6.45	119.39	105.20
4	A4	9	DA	OP1-P-O3'	6.45	119.39	105.20
5	A5	22	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	583	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	637	DA	OP1-P-O3'	6.45	119.39	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1058	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	1432	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	2712	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	4479	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	5251	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	6671	DA	OP1-P-O3'	6.45	119.39	105.20
13	AD	10	DA	OP1-P-O3'	6.45	119.39	105.20
32	C8	41	DA	OP1-P-O3'	6.45	119.39	105.20
38	D2	10	DA	OP1-P-O3'	6.45	119.39	105.20
83	H3	29	DA	OP1-P-O3'	6.45	119.39	105.20
88	H9	4	DT	OP2-P-O3'	6.45	119.39	105.20
108	J7	10	DA	OP1-P-O3'	6.45	119.39	105.20
111	JA	3	DA	OP1-P-O3'	6.45	119.39	105.20
112	JC	11	DA	OP1-P-O3'	6.45	119.39	105.20
122	KA	32	DA	OP1-P-O3'	6.45	119.39	105.20
125	L1	9	DA	OP1-P-O3'	6.45	119.39	105.20
132	L9	10	DA	OP1-P-O3'	6.45	119.39	105.20
142	M9	20	DA	OP1-P-O3'	6.45	119.39	105.20
151	N8	8	DT	OP2-P-O3'	6.45	119.39	105.20
158	O5	31	DA	OP1-P-O3'	6.45	119.39	105.20
199	S9	2	DA	OP1-P-O3'	6.45	119.39	105.20
206	T7	35	DA	OP1-P-O3'	6.45	119.39	105.20
206	T7	41	DA	OP1-P-O3'	6.45	119.39	105.20
11	AB	3455	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	4419	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	6446	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	6651	DA	OP1-P-O3'	6.45	119.38	105.20
49	E2	27	DA	OP1-P-O3'	6.45	119.38	105.20
61	F3	22	DA	OP1-P-O3'	6.45	119.38	105.20
63	F6	8	DA	OP1-P-O3'	6.45	119.38	105.20
83	H3	10	DA	OP1-P-O3'	6.45	119.38	105.20
94	I3	16	DA	OP1-P-O3'	6.45	119.38	105.20
126	L2	59	DA	OP1-P-O3'	6.45	119.38	105.20
150	N7	2	DA	OP1-P-O3'	6.45	119.38	105.20
152	N9	30	DA	OP1-P-O3'	6.45	119.38	105.20
160	O7	35	DA	OP1-P-O3'	6.45	119.38	105.20
166	P2	8	DA	OP1-P-O3'	6.45	119.38	105.20
181	Q9	36	DT	OP2-P-O3'	6.45	119.38	105.20
199	S9	4	DA	OP1-P-O3'	6.45	119.38	105.20
212	U2	27	DA	OP1-P-O3'	6.45	119.38	105.20
225	V8	10	DA	OP1-P-O3'	6.45	119.38	105.20
7	A7	7	DA	OP1-P-O3'	6.45	119.38	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	A8	6	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	139	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	335	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	725	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	1547	DT	OP2-P-O3'	6.45	119.38	105.20
11	AB	1807	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	1818	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	2515	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	3561	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	4688	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	5237	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	6098	DA	OP1-P-O3'	6.45	119.38	105.20
39	D3	27	DA	OP1-P-O3'	6.45	119.38	105.20
44	D9	25	DA	OP1-P-O3'	6.45	119.38	105.20
52	E6	3	DA	OP1-P-O3'	6.45	119.38	105.20
74	G6	8	DA	OP1-P-O3'	6.45	119.38	105.20
80	GD	11	DA	OP1-P-O3'	6.45	119.38	105.20
87	H8	14	DA	OP1-P-O3'	6.45	119.38	105.20
114	K1	27	DA	OP1-P-O3'	6.45	119.38	105.20
116	K3	9	DA	OP1-P-O3'	6.45	119.38	105.20
117	K5	35	DA	OP1-P-O3'	6.45	119.38	105.20
130	L7	5	DA	OP1-P-O3'	6.45	119.38	105.20
143	MA	42	DA	OP1-P-O3'	6.45	119.38	105.20
149	N6	20	DA	OP1-P-O3'	6.45	119.38	105.20
190	R9	27	DA	OP1-P-O3'	6.45	119.38	105.20
195	S3	23	DA	OP1-P-O3'	6.45	119.38	105.20
209	TA	8	DA	OP1-P-O3'	6.45	119.38	105.20
228	VC	38	DA	OP1-P-O3'	6.45	119.38	105.20
234	W9	6	DA	OP1-P-O3'	6.45	119.38	105.20
11	AB	406	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	1701	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	2855	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	5044	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	5505	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	6249	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	7037	DA	OP1-P-O3'	6.44	119.38	105.20
47	DD	37	DA	OP1-P-O3'	6.44	119.38	105.20
68	FC	16	DA	OP1-P-O3'	6.44	119.38	105.20
93	I2	23	DA	OP1-P-O3'	6.44	119.38	105.20
214	U5	16	DA	OP1-P-O3'	6.44	119.38	105.20
214	U5	29	DA	OP1-P-O3'	6.44	119.38	105.20
228	VC	11	DA	OP1-P-O3'	6.44	119.38	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A4	7	DA	OP1-P-O3'	6.44	119.38	105.20
8	A8	15	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	1530	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	1847	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	2032	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	2080	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	2117	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	2359	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	3218	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	3471	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	3741	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	3899	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	4138	DA	OP1-P-O3'	6.44	119.38	105.20
11	AB	4684	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	4958	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	5986	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	7128	DA	OP1-P-O3'	6.44	119.37	105.20
14	B1	17	DA	OP1-P-O3'	6.44	119.37	105.20
30	C6	42	DA	OP1-P-O3'	6.44	119.37	105.20
36	CD	4	DA	OP1-P-O3'	6.44	119.38	105.20
43	D8	34	DA	OP1-P-O3'	6.44	119.38	105.20
49	E2	3	DA	OP1-P-O3'	6.44	119.37	105.20
68	FC	13	DA	OP1-P-O3'	6.44	119.37	105.20
71	G2	21	DA	OP1-P-O3'	6.44	119.37	105.20
99	I9	28	DA	OP1-P-O3'	6.44	119.37	105.20
111	JA	5	DA	OP1-P-O3'	6.44	119.37	105.20
125	L1	32	DA	OP1-P-O3'	6.44	119.37	105.20
127	L3	3	DA	OP1-P-O3'	6.44	119.37	105.20
131	L8	16	DA	OP1-P-O3'	6.44	119.37	105.20
134	LC	15	DA	OP1-P-O3'	6.44	119.37	105.20
154	NC	9	DA	OP1-P-O3'	6.44	119.37	105.20
155	ND	9	DA	OP1-P-O3'	6.44	119.38	105.20
159	O6	4	DA	OP1-P-O3'	6.44	119.37	105.20
160	O7	3	DA	OP1-P-O3'	6.44	119.37	105.20
165	OD	5	DA	OP1-P-O3'	6.44	119.37	105.20
175	PD	16	DA	OP1-P-O3'	6.44	119.37	105.20
182	QA	19	DA	OP1-P-O3'	6.44	119.37	105.20
213	U3	9	DA	OP1-P-O3'	6.44	119.37	105.20
223	V5	31	DA	OP1-P-O3'	6.44	119.37	105.20
227	VA	6	DA	OP1-P-O3'	6.44	119.38	105.20
1	A1	3	DA	OP1-P-O3'	6.44	119.37	105.20
5	A5	18	DA	OP1-P-O3'	6.44	119.37	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	589	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	2602	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	3583	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	4927	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	5551	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	6633	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	6932	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	7194	DA	OP1-P-O3'	6.44	119.37	105.20
31	C7	2	DA	OP1-P-O3'	6.44	119.37	105.20
60	F2	26	DA	OP1-P-O3'	6.44	119.37	105.20
61	F3	12	DA	OP1-P-O3'	6.44	119.37	105.20
106	J5	3	DA	OP1-P-O3'	6.44	119.37	105.20
114	K1	25	DA	OP1-P-O3'	6.44	119.37	105.20
124	KD	15	DA	OP1-P-O3'	6.44	119.37	105.20
137	M3	12	DA	OP1-P-O3'	6.44	119.37	105.20
139	M6	12	DA	OP1-P-O3'	6.44	119.37	105.20
146	N2	6	DA	OP1-P-O3'	6.44	119.37	105.20
146	N2	21	DA	OP1-P-O3'	6.44	119.37	105.20
187	R5	26	DA	OP1-P-O3'	6.44	119.37	105.20
204	T3	37	DA	OP1-P-O3'	6.44	119.37	105.20
220	UD	8	DA	OP1-P-O3'	6.44	119.37	105.20
225	V8	12	DA	OP1-P-O3'	6.44	119.37	105.20
231	W5	17	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	613	DA	OP1-P-O3'	6.44	119.36	105.20
11	AB	1647	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	1796	DA	OP1-P-O3'	6.44	119.37	105.20
11	AB	5473	DA	OP1-P-O3'	6.44	119.36	105.20
11	AB	7080	DA	OP1-P-O3'	6.44	119.37	105.20
18	B5	32	DA	OP1-P-O3'	6.44	119.37	105.20
19	B6	13	DA	OP1-P-O3'	6.44	119.37	105.20
41	D6	32	DA	OP1-P-O3'	6.44	119.36	105.20
84	H5	32	DA	OP1-P-O3'	6.44	119.37	105.20
136	M2	15	DA	OP1-P-O3'	6.44	119.37	105.20
155	ND	2	DA	OP1-P-O3'	6.44	119.37	105.20
161	O8	13	DA	OP1-P-O3'	6.44	119.37	105.20
165	OD	10	DA	OP1-P-O3'	6.44	119.36	105.20
175	PD	4	DA	OP1-P-O3'	6.44	119.37	105.20
2	A2	6	DA	OP1-P-O3'	6.44	119.36	105.20
11	AB	2482	DA	OP1-P-O3'	6.44	119.36	105.20
11	AB	2732	DA	OP1-P-O3'	6.44	119.36	105.20
11	AB	3719	DA	OP1-P-O3'	6.44	119.36	105.20
11	AB	4238	DA	OP1-P-O3'	6.44	119.36	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6733	DA	OP1-P-O3'	6.44	119.36	105.20
11	AB	6751	DA	OP1-P-O3'	6.44	119.36	105.20
11	AB	6935	DA	OP1-P-O3'	6.44	119.36	105.20
11	AB	6962	DA	OP1-P-O3'	6.44	119.36	105.20
24	BC	14	DA	OP1-P-O3'	6.44	119.36	105.20
30	C6	24	DA	OP1-P-O3'	6.44	119.36	105.20
61	F3	8	DA	OP1-P-O3'	6.44	119.36	105.20
69	FD	25	DA	OP1-P-O3'	6.44	119.36	105.20
69	FD	39	DA	OP1-P-O3'	6.44	119.36	105.20
89	HA	10	DA	OP1-P-O3'	6.44	119.36	105.20
92	I1	21	DA	OP1-P-O3'	6.44	119.36	105.20
98	I8	36	DA	OP1-P-O3'	6.44	119.36	105.20
114	K1	30	DA	OP1-P-O3'	6.44	119.36	105.20
115	K2	8	DA	OP1-P-O3'	6.44	119.36	105.20
117	K5	24	DA	OP1-P-O3'	6.44	119.36	105.20
119	K7	12	DA	OP1-P-O3'	6.44	119.36	105.20
124	KD	18	DA	OP1-P-O3'	6.44	119.36	105.20
161	O8	35	DA	OP1-P-O3'	6.44	119.36	105.20
169	P6	8	DA	OP1-P-O3'	6.44	119.36	105.20
182	QA	8	DA	OP1-P-O3'	6.44	119.36	105.20
185	R2	3	DA	OP1-P-O3'	6.44	119.36	105.20
191	RA	8	DA	OP1-P-O3'	6.44	119.36	105.20
194	S2	3	DA	OP1-P-O3'	6.44	119.36	105.20
194	S2	13	DA	OP1-P-O3'	6.44	119.36	105.20
194	S2	17	DA	OP1-P-O3'	6.44	119.36	105.20
206	T7	37	DA	OP1-P-O3'	6.44	119.36	105.20
206	T7	53	DA	OP1-P-O3'	6.44	119.36	105.20
207	T8	27	DA	OP1-P-O3'	6.44	119.36	105.20
219	UC	26	DA	OP1-P-O3'	6.44	119.36	105.20
229	VD	6	DA	OP1-P-O3'	6.44	119.36	105.20
230	W3	47	DA	OP1-P-O3'	6.44	119.36	105.20
233	W8	17	DA	OP1-P-O3'	6.44	119.36	105.20
11	AB	4979	DC	O3'-P-O5'	-6.44	91.77	104.00
11	AB	6029	DA	OP1-P-O3'	6.44	119.36	105.20
22	B9	46	DA	OP1-P-O3'	6.44	119.36	105.20
29	C5	39	DA	OP1-P-O3'	6.44	119.36	105.20
36	CD	2	DA	OP1-P-O3'	6.44	119.36	105.20
82	H2	35	DA	OP1-P-O3'	6.44	119.36	105.20
137	M3	33	DA	OP1-P-O3'	6.44	119.36	105.20
154	NC	7	DA	OP1-P-O3'	6.44	119.36	105.20
155	ND	19	DA	OP1-P-O3'	6.44	119.36	105.20
167	P3	36	DA	OP1-P-O3'	6.44	119.36	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
168	P5	14	DA	OP1-P-O3'	6.44	119.36	105.20
196	S5	3	DA	OP1-P-O3'	6.44	119.36	105.20
203	T2	9	DA	OP1-P-O3'	6.44	119.36	105.20
2	A2	2	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	85	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	242	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	2725	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	3575	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	3997	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	4130	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	5883	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	6179	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	6238	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	6305	DA	OP1-P-O3'	6.43	119.36	105.20
12	AC	21	DA	OP1-P-O3'	6.43	119.35	105.20
13	AD	31	DA	OP1-P-O3'	6.43	119.36	105.20
27	C2	19	DA	OP1-P-O3'	6.43	119.36	105.20
35	CC	21	DA	OP1-P-O3'	6.43	119.36	105.20
43	D8	7	DA	OP1-P-O3'	6.43	119.36	105.20
54	E8	36	DA	OP1-P-O3'	6.43	119.36	105.20
68	FC	10	DA	OP1-P-O3'	6.43	119.36	105.20
89	HA	23	DA	OP1-P-O3'	6.43	119.36	105.20
95	I5	21	DA	OP1-P-O3'	6.43	119.36	105.20
95	I5	41	DA	OP1-P-O3'	6.43	119.36	105.20
121	K9	8	DA	OP1-P-O3'	6.43	119.36	105.20
160	O7	41	DA	OP1-P-O3'	6.43	119.36	105.20
161	O8	52	DA	OP1-P-O3'	6.43	119.36	105.20
166	P2	27	DA	OP1-P-O3'	6.43	119.35	105.20
182	QA	13	DA	OP1-P-O3'	6.43	119.36	105.20
11	AB	112	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	941	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	1534	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	1881	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	2389	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	2916	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	3823	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	5709	DA	OP1-P-O3'	6.43	119.35	105.20
29	C5	9	DA	OP1-P-O3'	6.43	119.35	105.20
32	C8	7	DA	OP1-P-O3'	6.43	119.35	105.20
73	G5	15	DA	OP1-P-O3'	6.43	119.35	105.20
75	G7	23	DA	OP1-P-O3'	6.43	119.35	105.20
83	H3	41	DA	OP1-P-O3'	6.43	119.35	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
86	H7	12	DA	OP1-P-O3'	6.43	119.35	105.20
88	H9	26	DA	OP1-P-O3'	6.43	119.35	105.20
102	ID	20	DA	OP1-P-O3'	6.43	119.35	105.20
109	J8	10	DA	OP1-P-O3'	6.43	119.35	105.20
118	K6	12	DA	OP1-P-O3'	6.43	119.35	105.20
130	L7	33	DA	OP1-P-O3'	6.43	119.35	105.20
156	O2	41	DA	OP1-P-O3'	6.43	119.35	105.20
185	R2	10	DA	OP1-P-O3'	6.43	119.35	105.20
206	T7	8	DA	OP1-P-O3'	6.43	119.35	105.20
215	U7	10	DA	OP1-P-O3'	6.43	119.35	105.20
224	V7	20	DA	OP1-P-O3'	6.43	119.35	105.20
230	W3	40	DA	OP1-P-O3'	6.43	119.35	105.20
234	W9	13	DA	OP1-P-O3'	6.43	119.35	105.20
235	WD	11	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	937	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	2653	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	2780	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	3392	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	3413	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	3635	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	4653	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	5256	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	5836	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	5948	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	7076	DT	OP2-P-O3'	6.43	119.35	105.20
21	B8	25	DA	OP1-P-O3'	6.43	119.35	105.20
29	C5	15	DA	OP1-P-O3'	6.43	119.35	105.20
34	CA	10	DA	OP1-P-O3'	6.43	119.35	105.20
52	E6	29	DA	OP1-P-O3'	6.43	119.35	105.20
84	H5	39	DA	OP1-P-O3'	6.43	119.35	105.20
120	K8	3	DA	OP1-P-O3'	6.43	119.35	105.20
128	L5	22	DA	OP1-P-O3'	6.43	119.35	105.20
1	A1	22	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	1006	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	1518	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	2568	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	3836	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	3944	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	4531	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	4844	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	4992	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	5067	DA	OP1-P-O3'	6.43	119.35	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6041	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	6629	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	6727	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	6815	DA	OP1-P-O3'	6.43	119.35	105.20
11	AB	6824	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	7240	DA	OP1-P-O3'	6.43	119.34	105.20
13	AD	27	DA	OP1-P-O3'	6.43	119.34	105.20
22	B9	52	DA	OP1-P-O3'	6.43	119.35	105.20
45	DA	8	DA	OP1-P-O3'	6.43	119.34	105.20
46	DC	19	DA	OP1-P-O3'	6.43	119.34	105.20
63	F6	16	DA	OP1-P-O3'	6.43	119.34	105.20
67	FA	5	DA	OP1-P-O3'	6.43	119.34	105.20
87	H8	20	DA	OP1-P-O3'	6.43	119.34	105.20
106	J5	5	DA	OP1-P-O3'	6.43	119.35	105.20
119	K7	2	DA	OP1-P-O3'	6.43	119.34	105.20
125	L1	44	DA	OP1-P-O3'	6.43	119.34	105.20
148	N5	28	DA	OP1-P-O3'	6.43	119.34	105.20
153	NA	12	DA	OP1-P-O3'	6.43	119.34	105.20
157	O3	11	DA	OP1-P-O3'	6.43	119.34	105.20
163	OA	1	DA	OP1-P-O3'	6.43	119.35	105.20
170	P7	16	DA	OP1-P-O3'	6.43	119.34	105.20
181	Q9	19	DA	OP1-P-O3'	6.43	119.34	105.20
183	QC	20	DA	OP1-P-O3'	6.43	119.35	105.20
189	R8	30	DA	OP1-P-O3'	6.43	119.34	105.20
199	S9	19	DA	OP1-P-O3'	6.43	119.34	105.20
203	T2	12	DA	OP1-P-O3'	6.43	119.34	105.20
228	VC	34	DA	OP1-P-O3'	6.43	119.34	105.20
3	A3	19	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	262	DT	OP2-P-O3'	6.43	119.34	105.20
11	AB	3042	DA	OP1-P-O3'	6.43	119.34	105.20
16	B3	11	DA	OP1-P-O3'	6.43	119.34	105.20
32	C8	3	DA	OP1-P-O3'	6.43	119.34	105.20
48	E1	4	DA	OP1-P-O3'	6.43	119.34	105.20
102	ID	22	DA	OP1-P-O3'	6.43	119.34	105.20
148	N5	6	DA	OP1-P-O3'	6.43	119.34	105.20
156	O2	44	DA	OP1-P-O3'	6.43	119.34	105.20
167	P3	28	DA	OP1-P-O3'	6.43	119.34	105.20
189	R8	39	DA	OP1-P-O3'	6.43	119.34	105.20
1	A1	14	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	284	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	436	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	1187	DA	OP1-P-O3'	6.43	119.34	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2667	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	3429	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	3552	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	3841	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	4056	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	4070	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	4337	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	4507	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	5057	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	5433	DA	OP1-P-O3'	6.43	119.34	105.20
11	AB	5839	DA	OP1-P-O3'	6.43	119.34	105.20
13	AD	25	DA	OP1-P-O3'	6.43	119.34	105.20
14	B1	6	DA	OP1-P-O3'	6.43	119.34	105.20
15	B2	19	DA	OP1-P-O3'	6.43	119.34	105.20
20	B7	12	DA	OP1-P-O3'	6.43	119.34	105.20
20	B7	20	DA	OP1-P-O3'	6.43	119.34	105.20
42	D7	3	DA	OP1-P-O3'	6.43	119.34	105.20
43	D8	4	DA	OP1-P-O3'	6.43	119.34	105.20
82	H2	42	DA	OP1-P-O3'	6.43	119.34	105.20
82	H2	53	DA	OP1-P-O3'	6.43	119.34	105.20
85	H6	4	DA	OP1-P-O3'	6.43	119.34	105.20
95	I5	13	DA	OP1-P-O3'	6.43	119.34	105.20
152	N9	22	DA	OP1-P-O3'	6.43	119.34	105.20
173	PA	2	DA	OP1-P-O3'	6.43	119.34	105.20
187	R5	3	DA	OP1-P-O3'	6.43	119.34	105.20
219	UC	17	DA	OP1-P-O3'	6.43	119.34	105.20
226	V9	23	DA	OP1-P-O3'	6.43	119.34	105.20
5	A5	37	DA	OP1-P-O3'	6.42	119.33	105.20
9	A9	9	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	761	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	3333	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	3627	DA	OP1-P-O3'	6.42	119.34	105.20
11	AB	4292	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	4557	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	4624	DA	OP1-P-O3'	6.42	119.34	105.20
11	AB	4776	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	6356	DA	OP1-P-O3'	6.42	119.34	105.20
11	AB	6754	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	7234	DA	OP1-P-O3'	6.42	119.33	105.20
22	B9	27	DA	OP1-P-O3'	6.42	119.34	105.20
22	B9	49	DA	OP1-P-O3'	6.42	119.33	105.20
36	CD	13	DA	OP1-P-O3'	6.42	119.33	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	D1	30	DA	OP1-P-O3'	6.42	119.34	105.20
47	DD	40	DA	OP1-P-O3'	6.42	119.33	105.20
53	E7	19	DA	OP1-P-O3'	6.42	119.33	105.20
76	G8	22	DA	OP1-P-O3'	6.42	119.33	105.20
80	GD	15	DA	OP1-P-O3'	6.42	119.33	105.20
81	H1	11	DA	OP1-P-O3'	6.42	119.33	105.20
94	I3	1	DA	OP1-P-O3'	6.42	119.33	105.20
102	ID	3	DA	OP1-P-O3'	6.42	119.33	105.20
126	L2	50	DA	OP1-P-O3'	6.42	119.34	105.20
145	MD	54	DA	OP1-P-O3'	6.42	119.34	105.20
152	N9	37	DA	OP1-P-O3'	6.42	119.33	105.20
164	OC	25	DA	OP1-P-O3'	6.42	119.33	105.20
169	P6	15	DA	OP1-P-O3'	6.42	119.33	105.20
187	R5	36	DA	OP1-P-O3'	6.42	119.33	105.20
225	V8	19	DA	OP1-P-O3'	6.42	119.33	105.20
31	C7	22	DA	OP1-P-O3'	6.42	119.33	105.20
147	N3	1	DA	OP1-P-O3'	6.42	119.33	105.20
169	P6	17	DA	OP1-P-O3'	6.42	119.33	105.20
187	R5	17	DA	OP1-P-O3'	6.42	119.33	105.20
6	A6	22	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	60	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	907	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	2593	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	2909	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	4636	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	4783	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	5634	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	6049	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	6692	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	6922	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	7153	DA	OP1-P-O3'	6.42	119.33	105.20
22	B9	12	DA	OP1-P-O3'	6.42	119.33	105.20
24	BC	21	DA	OP1-P-O3'	6.42	119.33	105.20
67	FA	17	DA	OP1-P-O3'	6.42	119.33	105.20
73	G5	6	DA	OP1-P-O3'	6.42	119.33	105.20
76	G8	5	DA	OP1-P-O3'	6.42	119.33	105.20
85	H6	15	DA	OP1-P-O3'	6.42	119.33	105.20
100	IA	5	DA	OP1-P-O3'	6.42	119.33	105.20
149	N6	48	DA	OP1-P-O3'	6.42	119.33	105.20
192	RC	9	DA	OP1-P-O3'	6.42	119.33	105.20
231	W5	22	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	1610	DA	OP1-P-O3'	6.42	119.33	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1901	DA	OP1-P-O3'	6.42	119.33	105.20
11	AB	1908	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	4965	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	5082	DA	OP1-P-O3'	6.42	119.32	105.20
30	C6	30	DA	OP1-P-O3'	6.42	119.32	105.20
40	D5	17	DA	OP1-P-O3'	6.42	119.32	105.20
49	E2	33	DA	OP1-P-O3'	6.42	119.32	105.20
97	I7	23	DA	OP1-P-O3'	6.42	119.33	105.20
130	L7	9	DA	OP1-P-O3'	6.42	119.32	105.20
165	OD	54	DA	OP1-P-O3'	6.42	119.32	105.20
6	A6	8	DA	OP1-P-O3'	6.42	119.32	105.20
8	A8	9	DA	OP1-P-O3'	6.42	119.32	105.20
9	A9	7	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	179	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	1417	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	1862	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	2076	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	2728	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	3306	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	3656	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	4019	DA	OP1-P-O3'	6.42	119.32	105.20
37	D1	16	DA	OP1-P-O3'	6.42	119.32	105.20
39	D3	31	DA	OP1-P-O3'	6.42	119.32	105.20
44	D9	22	DA	OP1-P-O3'	6.42	119.32	105.20
90	HC	26	DA	OP1-P-O3'	6.42	119.32	105.20
201	SC	10	DA	OP1-P-O3'	6.42	119.32	105.20
211	TD	20	DA	OP1-P-O3'	6.42	119.32	105.20
223	V5	8	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	475	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	703	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	790	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	1828	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	2477	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	3380	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	3728	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	3805	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	5041	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	6000	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	6056	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	6153	DA	OP1-P-O3'	6.42	119.32	105.20
11	AB	6242	DA	OP1-P-O3'	6.42	119.32	105.20
30	C6	6	DA	OP1-P-O3'	6.42	119.32	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	D5	23	DA	OP1-P-O3'	6.42	119.32	105.20
41	D6	8	DA	OP1-P-O3'	6.42	119.32	105.20
58	ED	6	DA	OP1-P-O3'	6.42	119.32	105.20
66	F9	6	DA	OP1-P-O3'	6.42	119.32	105.20
100	IA	22	DA	OP1-P-O3'	6.42	119.31	105.20
137	M3	4	DA	OP1-P-O3'	6.42	119.32	105.20
138	M5	22	DA	OP1-P-O3'	6.42	119.32	105.20
160	O7	7	DA	OP1-P-O3'	6.42	119.32	105.20
202	SD	9	DA	OP1-P-O3'	6.42	119.31	105.20
205	T5	21	DA	OP1-P-O3'	6.42	119.32	105.20
9	A9	17	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	304	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	547	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	3809	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	4513	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	6023	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	6457	DA	OP1-P-O3'	6.42	119.31	105.20
11	AB	7029	DA	OP1-P-O3'	6.42	119.31	105.20
56	EA	9	DA	OP1-P-O3'	6.42	119.31	105.20
62	F5	47	DA	OP1-P-O3'	6.42	119.31	105.20
78	GA	18	DA	OP1-P-O3'	6.42	119.31	105.20
122	KA	26	DA	OP1-P-O3'	6.42	119.31	105.20
145	MD	23	DA	OP1-P-O3'	6.42	119.31	105.20
206	T7	33	DA	OP1-P-O3'	6.42	119.31	105.20
217	U9	6	DA	OP1-P-O3'	6.42	119.31	105.20
238	X9	48	DA	OP1-P-O3'	6.42	119.31	105.20
10	AA	22	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	2949	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	3065	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	3817	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	4354	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	4709	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	4831	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	5247	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	5481	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	5496	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	7135	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	7144	DA	OP1-P-O3'	6.41	119.31	105.20
15	B2	15	DA	OP1-P-O3'	6.41	119.31	105.20
85	H6	6	DA	OP1-P-O3'	6.41	119.31	105.20
92	I1	12	DA	OP1-P-O3'	6.41	119.31	105.20
108	J7	54	DA	OP1-P-O3'	6.41	119.31	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
113	JD	2	DA	OP1-P-O3'	6.41	119.31	105.20
206	T7	22	DA	OP1-P-O3'	6.41	119.31	105.20
206	T7	49	DA	OP1-P-O3'	6.41	119.31	105.20
209	TA	26	DA	OP1-P-O3'	6.41	119.31	105.20
216	U8	4	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	3862	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	4833	DA	OP1-P-O3'	6.41	119.31	105.20
19	B6	16	DA	OP1-P-O3'	6.41	119.31	105.20
21	B8	14	DA	OP1-P-O3'	6.41	119.31	105.20
43	D8	36	DA	OP1-P-O3'	6.41	119.31	105.20
52	E6	27	DA	OP1-P-O3'	6.41	119.31	105.20
161	O8	56	DA	OP1-P-O3'	6.41	119.31	105.20
198	S8	23	DA	OP1-P-O3'	6.41	119.31	105.20
212	U2	12	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	89	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	759	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	892	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	1342	DT	OP2-P-O3'	6.41	119.30	105.20
11	AB	1414	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	2143	DA	OP1-P-O3'	6.41	119.31	105.20
11	AB	2167	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	2400	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	2555	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	3068	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	3754	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	4024	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	4700	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	5891	DA	OP1-P-O3'	6.41	119.30	105.20
18	B5	10	DA	OP1-P-O3'	6.41	119.30	105.20
46	DC	7	DA	OP1-P-O3'	6.41	119.30	105.20
60	F2	21	DA	OP1-P-O3'	6.41	119.30	105.20
64	F7	23	DA	OP1-P-O3'	6.41	119.30	105.20
80	GD	18	DA	OP1-P-O3'	6.41	119.30	105.20
102	ID	29	DA	OP1-P-O3'	6.41	119.30	105.20
117	K5	42	DA	OP1-P-O3'	6.41	119.30	105.20
122	KA	10	DA	OP1-P-O3'	6.41	119.30	105.20
139	M6	3	DA	OP1-P-O3'	6.41	119.30	105.20
154	NC	29	DA	OP1-P-O3'	6.41	119.31	105.20
159	O6	19	DA	OP1-P-O3'	6.41	119.30	105.20
206	T7	6	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	125	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	326	DA	OP1-P-O3'	6.41	119.30	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	988	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	3231	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	3251	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	5115	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	5193	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	6297	DA	OP1-P-O3'	6.41	119.30	105.20
22	B9	10	DA	OP1-P-O3'	6.41	119.30	105.20
30	C6	2	DA	OP1-P-O3'	6.41	119.30	105.20
58	ED	20	DA	OP1-P-O3'	6.41	119.30	105.20
67	FA	2	DA	OP1-P-O3'	6.41	119.30	105.20
102	ID	25	DA	OP1-P-O3'	6.41	119.30	105.20
196	S5	11	DA	OP1-P-O3'	6.41	119.30	105.20
226	V9	14	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	4047	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	5748	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	7024	DA	OP1-P-O3'	6.41	119.30	105.20
85	H6	30	DA	OP1-P-O3'	6.41	119.30	105.20
109	J8	52	DA	OP1-P-O3'	6.41	119.30	105.20
123	KC	17	DA	OP1-P-O3'	6.41	119.30	105.20
125	L1	11	DA	OP1-P-O3'	6.41	119.30	105.20
126	L2	44	DA	OP1-P-O3'	6.41	119.30	105.20
187	R5	22	DA	OP1-P-O3'	6.41	119.30	105.20
11	AB	2217	DA	OP1-P-O3'	6.41	119.29	105.20
24	BC	26	DA	OP1-P-O3'	6.41	119.29	105.20
29	C5	31	DA	OP1-P-O3'	6.41	119.29	105.20
48	E1	6	DA	OP1-P-O3'	6.41	119.29	105.20
73	G5	21	DA	OP1-P-O3'	6.41	119.29	105.20
107	J6	39	DA	OP1-P-O3'	6.41	119.29	105.20
146	N2	13	DA	OP1-P-O3'	6.41	119.29	105.20
170	P7	11	DA	OP1-P-O3'	6.41	119.29	105.20
190	R9	12	DA	OP1-P-O3'	6.41	119.29	105.20
194	S2	24	DA	OP1-P-O3'	6.41	119.29	105.20
11	AB	4963	DA	OP1-P-O3'	6.40	119.29	105.20
34	CA	12	DA	OP1-P-O3'	6.40	119.29	105.20
134	LC	9	DA	OP1-P-O3'	6.40	119.29	105.20
155	ND	6	DA	OP1-P-O3'	6.40	119.29	105.20
11	AB	269	DA	OP1-P-O3'	6.40	119.28	105.20
11	AB	1638	DA	OP1-P-O3'	6.40	119.29	105.20
11	AB	3086	DA	OP1-P-O3'	6.40	119.29	105.20
11	AB	3407	DA	OP1-P-O3'	6.40	119.28	105.20
11	AB	3417	DA	OP1-P-O3'	6.40	119.29	105.20
11	AB	5657	DA	OP1-P-O3'	6.40	119.28	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	F5	2	DA	OP1-P-O3'	6.40	119.28	105.20
69	FD	1	DA	OP1-P-O3'	6.40	119.28	105.20
69	FD	30	DA	OP1-P-O3'	6.40	119.28	105.20
104	J2	2	DA	OP1-P-O3'	6.40	119.29	105.20
119	K7	31	DA	OP1-P-O3'	6.40	119.29	105.20
126	L2	47	DA	OP1-P-O3'	6.40	119.28	105.20
218	UA	12	DA	OP1-P-O3'	6.40	119.28	105.20
225	V8	23	DA	OP1-P-O3'	6.40	119.29	105.20
6	A6	27	DA	OP1-P-O3'	6.40	119.28	105.20
11	AB	432	DT	OP2-P-O3'	6.40	119.28	105.20
11	AB	3632	DA	OP1-P-O3'	6.40	119.28	105.20
108	J7	6	DA	OP1-P-O3'	6.40	119.28	105.20
181	Q9	1	DA	OP1-P-O3'	6.40	119.28	105.20
230	W3	18	DA	OP1-P-O3'	6.40	119.28	105.20
11	AB	3865	DA	OP1-P-O3'	6.40	119.28	105.20
209	TA	32	DA	OP1-P-O3'	6.40	119.28	105.20
233	W8	12	DA	OP1-P-O3'	6.40	119.28	105.20
11	AB	4310	DA	OP1-P-O3'	6.40	119.28	105.20
140	M7	15	DA	OP1-P-O3'	6.40	119.27	105.20
145	MD	52	DA	OP1-P-O3'	6.40	119.27	105.20
11	AB	5547	DA	OP1-P-O3'	6.40	119.27	105.20
74	G6	6	DA	OP1-P-O3'	6.40	119.27	105.20
90	HC	24	DA	OP1-P-O3'	6.40	119.27	105.20
94	I3	44	DA	OP1-P-O3'	6.40	119.27	105.20
153	NA	20	DA	OP1-P-O3'	6.40	119.27	105.20
188	R7	6	DA	OP1-P-O3'	6.40	119.27	105.20
192	RC	6	DA	OP1-P-O3'	6.40	119.27	105.20
211	TD	12	DA	OP1-P-O3'	6.40	119.27	105.20
11	AB	4201	DA	OP1-P-O3'	6.39	119.27	105.20
14	B1	26	DA	OP1-P-O3'	6.39	119.27	105.20
24	BC	7	DA	OP1-P-O3'	6.39	119.27	105.20
203	T2	25	DA	OP1-P-O3'	6.39	119.27	105.20
11	AB	922	DA	OP1-P-O3'	6.39	119.26	105.20
113	JD	37	DA	OP1-P-O3'	6.39	119.27	105.20
140	M7	12	DA	OP1-P-O3'	6.39	119.26	105.20
207	T8	13	DA	OP1-P-O3'	6.39	119.26	105.20
14	B1	19	DA	OP1-P-O3'	6.39	119.26	105.20
84	H5	13	DA	OP1-P-O3'	6.39	119.26	105.20
114	K1	15	DA	OP1-P-O3'	6.39	119.25	105.20
11	AB	3350	DT	OP2-P-O3'	6.39	119.25	105.20
217	U9	10	DA	OP1-P-O3'	6.38	119.24	105.20
188	R7	1	DA	OP1-P-O3'	6.38	119.24	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2135	DT	OP2-P-O3'	6.38	119.23	105.20
22	B9	23	DA	OP1-P-O3'	6.37	119.22	105.20
11	AB	2522	DT	OP2-P-O3'	6.33	119.12	105.20
164	OC	9	DA	OP2-P-O3'	6.29	119.03	105.20
11	AB	4055	DT	P-O3'-C3'	-6.28	112.16	119.70
11	AB	3204	DT	P-O3'-C3'	-6.28	112.16	119.70
11	AB	3816	DT	P-O3'-C3'	-6.28	112.16	119.70
11	AB	1484	DA	OP2-P-O3'	6.28	119.01	105.20
11	AB	3358	DA	OP2-P-O3'	6.28	119.01	105.20
74	G6	16	DT	P-O3'-C3'	-6.28	112.17	119.70
193	RD	7	DA	OP2-P-O3'	6.28	119.01	105.20
11	AB	3499	DT	OP2-P-O3'	6.28	119.01	105.20
68	FC	9	DT	P-O3'-C3'	-6.28	112.17	119.70
153	NA	5	DA	OP2-P-O3'	6.28	119.01	105.20
54	E8	9	DT	P-O3'-C3'	-6.27	112.17	119.70
114	K1	38	DA	OP2-P-O3'	6.27	119.00	105.20
134	LC	6	DA	OP2-P-O3'	6.27	119.00	105.20
11	AB	693	DA	OP2-P-O3'	6.27	119.00	105.20
58	ED	16	DA	OP2-P-O3'	6.27	119.00	105.20
75	G7	21	DA	OP2-P-O3'	6.27	119.00	105.20
128	L5	17	DA	OP2-P-O3'	6.27	119.00	105.20
167	P3	18	DA	OP2-P-O3'	6.27	119.00	105.20
11	AB	4033	DT	P-O3'-C3'	-6.27	112.17	119.70
41	D6	43	DA	OP2-P-O3'	6.27	119.00	105.20
54	E8	22	DT	P-O3'-C3'	-6.27	112.17	119.70
63	F6	20	DA	OP2-P-O3'	6.27	119.00	105.20
154	NC	22	DA	OP2-P-O3'	6.27	119.00	105.20
184	QD	1	DA	OP2-P-O3'	6.27	119.00	105.20
187	R5	38	DA	OP2-P-O3'	6.27	119.00	105.20
11	AB	1080	DA	OP2-P-O3'	6.27	118.99	105.20
11	AB	2723	DA	OP2-P-O3'	6.27	118.99	105.20
11	AB	5929	DA	OP2-P-O3'	6.27	118.99	105.20
126	L2	41	DA	OP2-P-O3'	6.27	118.99	105.20
229	VD	2	DA	OP2-P-O3'	6.27	119.00	105.20
11	AB	523	DA	OP2-P-O3'	6.27	118.99	105.20
11	AB	1292	DA	OP2-P-O3'	6.27	118.99	105.20
11	AB	3373	DA	OP2-P-O3'	6.27	118.99	105.20
11	AB	3428	DT	P-O3'-C3'	-6.27	112.18	119.70
11	AB	4034	DA	OP2-P-O3'	6.27	118.99	105.20
11	AB	5148	DA	OP2-P-O3'	6.27	118.99	105.20
33	C9	11	DA	OP2-P-O3'	6.27	118.99	105.20
79	GC	10	DA	OP2-P-O3'	6.27	118.99	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
86	H7	5	DA	OP2-P-O3'	6.27	118.99	105.20
156	O2	16	DA	OP2-P-O3'	6.27	118.99	105.20
206	T7	29	DA	OP2-P-O3'	6.27	118.99	105.20
238	X9	42	DA	OP2-P-O3'	6.27	118.99	105.20
111	JA	14	DA	OP2-P-O3'	6.27	118.98	105.20
117	K5	18	DA	OP2-P-O3'	6.27	118.98	105.20
160	O7	28	DA	OP2-P-O3'	6.27	118.98	105.20
165	OD	53	DT	P-O3'-C3'	-6.27	112.18	119.70
1	A1	9	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	160	DT	P-O3'-C3'	-6.26	112.18	119.70
11	AB	657	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	669	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	1208	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	1785	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	2040	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	2052	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	2307	DT	P-O3'-C3'	-6.26	112.18	119.70
11	AB	2722	DT	P-O3'-C3'	-6.26	112.18	119.70
11	AB	3488	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	3832	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	4372	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	4906	DT	P-O3'-C3'	-6.26	112.18	119.70
11	AB	4973	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	5622	DT	P-O3'-C3'	-6.26	112.18	119.70
11	AB	5895	DT	P-O3'-C3'	-6.26	112.18	119.70
26	C1	10	DA	OP2-P-O3'	6.26	118.98	105.20
26	C1	26	DA	OP2-P-O3'	6.26	118.98	105.20
29	C5	22	DA	OP2-P-O3'	6.26	118.98	105.20
61	F3	19	DA	OP2-P-O3'	6.26	118.98	105.20
94	I3	51	DA	OP2-P-O3'	6.26	118.98	105.20
181	Q9	6	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	486	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	648	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	3619	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	5619	DA	OP2-P-O3'	6.26	118.98	105.20
178	Q5	41	DA	OP2-P-O3'	6.26	118.98	105.20
199	S9	8	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	736	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	2449	DA	OP2-P-O3'	6.26	118.98	105.20
11	AB	3484	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	4246	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	4704	DA	OP2-P-O3'	6.26	118.98	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5127	DA	OP2-P-O3'	6.26	118.97	105.20
44	D9	12	DA	OP2-P-O3'	6.26	118.97	105.20
90	HC	18	DA	OP2-P-O3'	6.26	118.98	105.20
97	I7	6	DA	OP2-P-O3'	6.26	118.97	105.20
99	I9	6	DA	OP2-P-O3'	6.26	118.97	105.20
125	L1	35	DA	OP2-P-O3'	6.26	118.97	105.20
129	L6	27	DA	OP2-P-O3'	6.26	118.97	105.20
136	M2	3	DT	P-O3'-C3'	-6.26	112.19	119.70
156	O2	47	DA	OP2-P-O3'	6.26	118.98	105.20
184	QD	29	DT	P-O3'-C3'	-6.26	112.19	119.70
189	R8	18	DA	OP2-P-O3'	6.26	118.98	105.20
207	T8	15	DA	OP2-P-O3'	6.26	118.98	105.20
8	A8	20	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	259	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	2165	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	2447	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	2582	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	2745	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	3190	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	3642	DT	P-O3'-C3'	-6.26	112.19	119.70
11	AB	4499	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	4907	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	6469	DA	OP2-P-O3'	6.26	118.97	105.20
48	E1	15	DA	OP2-P-O3'	6.26	118.97	105.20
90	HC	11	DA	OP2-P-O3'	6.26	118.97	105.20
114	K1	37	DT	P-O3'-C3'	-6.26	112.19	119.70
130	L7	59	DA	OP2-P-O3'	6.26	118.97	105.20
139	M6	16	DA	OP2-P-O3'	6.26	118.97	105.20
144	MC	2	DA	OP2-P-O3'	6.26	118.97	105.20
149	N6	34	DA	OP2-P-O3'	6.26	118.97	105.20
160	O7	32	DA	OP2-P-O3'	6.26	118.97	105.20
165	OD	38	DA	OP2-P-O3'	6.26	118.97	105.20
173	PA	8	DA	OP2-P-O3'	6.26	118.97	105.20
204	T3	42	DA	OP2-P-O3'	6.26	118.97	105.20
237	X7	16	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	354	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	1389	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	2011	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	2433	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	2807	DT	P-O3'-C3'	-6.26	112.19	119.70
11	AB	4383	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	4581	DA	OP2-P-O3'	6.26	118.97	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5995	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	6609	DA	OP2-P-O3'	6.26	118.97	105.20
44	D9	3	DA	OP2-P-O3'	6.26	118.97	105.20
70	G1	9	DA	OP2-P-O3'	6.26	118.97	105.20
126	L2	38	DA	OP2-P-O3'	6.26	118.97	105.20
163	OA	9	DA	OP2-P-O3'	6.26	118.97	105.20
195	S3	10	DA	OP2-P-O3'	6.26	118.97	105.20
224	V7	19	DT	P-O3'-C3'	-6.26	112.19	119.70
237	X7	14	DA	OP2-P-O3'	6.26	118.97	105.20
1	A1	6	DA	OP2-P-O3'	6.26	118.96	105.20
11	AB	292	DA	OP2-P-O3'	6.26	118.96	105.20
11	AB	839	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	1238	DA	OP2-P-O3'	6.26	118.96	105.20
11	AB	1891	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	3579	DT	P-O3'-C3'	-6.26	112.19	119.70
11	AB	3721	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	3928	DT	P-O3'-C3'	-6.26	112.19	119.70
11	AB	4080	DT	P-O3'-C3'	-6.26	112.19	119.70
11	AB	4618	DT	P-O3'-C3'	-6.26	112.19	119.70
11	AB	4816	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	4915	DT	P-O3'-C3'	-6.26	112.19	119.70
11	AB	5109	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	5121	DA	OP2-P-O3'	6.26	118.96	105.20
11	AB	5475	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	5584	DA	OP2-P-O3'	6.26	118.97	105.20
11	AB	6363	DA	OP2-P-O3'	6.26	118.96	105.20
11	AB	7089	DA	OP2-P-O3'	6.26	118.96	105.20
18	B5	16	DA	OP2-P-O3'	6.26	118.97	105.20
31	C7	32	DA	OP2-P-O3'	6.26	118.97	105.20
60	F2	3	DA	OP2-P-O3'	6.26	118.96	105.20
84	H5	28	DA	OP2-P-O3'	6.26	118.96	105.20
106	J5	19	DA	OP2-P-O3'	6.26	118.97	105.20
128	L5	19	DA	OP2-P-O3'	6.26	118.96	105.20
140	M7	7	DA	OP2-P-O3'	6.26	118.97	105.20
158	O5	25	DA	OP2-P-O3'	6.26	118.97	105.20
161	O8	33	DA	OP2-P-O3'	6.26	118.97	105.20
201	SC	17	DA	OP2-P-O3'	6.26	118.96	105.20
202	SD	25	DA	OP2-P-O3'	6.26	118.97	105.20
3	A3	6	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	104	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	283	DT	P-O3'-C3'	-6.25	112.19	119.70
11	AB	369	DA	OP2-P-O3'	6.25	118.96	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4103	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	4670	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	4887	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	5350	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	5554	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	6116	DA	OP2-P-O3'	6.25	118.96	105.20
35	CC	26	DA	OP2-P-O3'	6.25	118.96	105.20
43	D8	16	DA	OP2-P-O3'	6.25	118.96	105.20
45	DA	17	DA	OP2-P-O3'	6.25	118.96	105.20
46	DC	12	DA	OP2-P-O3'	6.25	118.96	105.20
63	F6	14	DA	OP2-P-O3'	6.25	118.96	105.20
84	H5	1	DA	OP2-P-O3'	6.25	118.96	105.20
104	J2	36	DA	OP2-P-O3'	6.25	118.96	105.20
122	KA	45	DA	OP2-P-O3'	6.25	118.96	105.20
173	PA	27	DA	OP2-P-O3'	6.25	118.96	105.20
188	R7	22	DA	OP2-P-O3'	6.25	118.96	105.20
197	S7	3	DA	OP2-P-O3'	6.25	118.96	105.20
207	T8	24	DT	P-O3'-C3'	-6.25	112.19	119.70
5	A5	29	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	488	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	514	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	543	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	663	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	997	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	2288	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	2637	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	2644	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	2716	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	4178	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	4267	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	4486	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	4563	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	4774	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	5489	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	5603	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	5623	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	5625	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	6166	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	7244	DA	OP2-P-O3'	6.25	118.96	105.20
34	CA	1	DT	P-O3'-C3'	-6.25	112.19	119.70
35	CC	33	DA	OP2-P-O3'	6.25	118.96	105.20
37	D1	5	DT	P-O3'-C3'	-6.25	112.20	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	D2	8	DA	OP2-P-O3'	6.25	118.96	105.20
61	F3	24	DA	OP2-P-O3'	6.25	118.96	105.20
67	FA	28	DA	OP2-P-O3'	6.25	118.96	105.20
75	G7	2	DA	OP2-P-O3'	6.25	118.96	105.20
93	I2	17	DA	OP2-P-O3'	6.25	118.96	105.20
112	JC	17	DT	P-O3'-C3'	-6.25	112.19	119.70
114	K1	4	DA	OP2-P-O3'	6.25	118.96	105.20
115	K2	35	DA	OP2-P-O3'	6.25	118.96	105.20
119	K7	16	DA	OP2-P-O3'	6.25	118.96	105.20
143	MA	17	DA	OP2-P-O3'	6.25	118.96	105.20
162	O9	6	DA	OP2-P-O3'	6.25	118.96	105.20
178	Q5	2	DA	OP2-P-O3'	6.25	118.96	105.20
196	S5	23	DA	OP2-P-O3'	6.25	118.96	105.20
217	U9	18	DA	OP2-P-O3'	6.25	118.96	105.20
231	W5	33	DA	OP2-P-O3'	6.25	118.96	105.20
11	AB	300	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	478	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	678	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	708	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	748	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	1318	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	2149	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	2189	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	2382	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	2565	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	2896	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	3802	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	3937	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	4121	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	4912	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	5156	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	5407	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	5737	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	5889	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	6102	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	6590	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	6705	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	6846	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	7200	DA	OP2-P-O3'	6.25	118.95	105.20
21	B8	2	DA	OP2-P-O3'	6.25	118.95	105.20
28	C3	22	DA	OP2-P-O3'	6.25	118.95	105.20
36	CD	10	DA	OP2-P-O3'	6.25	118.95	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	E6	36	DA	OP2-P-O3'	6.25	118.95	105.20
76	G8	13	DA	OP2-P-O3'	6.25	118.95	105.20
87	H8	23	DA	OP2-P-O3'	6.25	118.95	105.20
111	JA	8	DA	OP2-P-O3'	6.25	118.95	105.20
113	JD	23	DA	OP2-P-O3'	6.25	118.95	105.20
126	L2	11	DT	P-O3'-C3'	-6.25	112.20	119.70
130	L7	41	DA	OP2-P-O3'	6.25	118.95	105.20
142	M9	3	DT	P-O3'-C3'	-6.25	112.20	119.70
148	N5	15	DA	OP2-P-O3'	6.25	118.95	105.20
160	O7	10	DA	OP2-P-O3'	6.25	118.95	105.20
165	OD	26	DA	OP2-P-O3'	6.25	118.95	105.20
181	Q9	24	DA	OP2-P-O3'	6.25	118.95	105.20
182	QA	4	DA	OP2-P-O3'	6.25	118.95	105.20
185	R2	22	DT	P-O3'-C3'	-6.25	112.20	119.70
205	T5	15	DA	OP2-P-O3'	6.25	118.95	105.20
216	U8	12	DA	OP2-P-O3'	6.25	118.95	105.20
226	V9	20	DA	OP2-P-O3'	6.25	118.95	105.20
234	W9	17	DA	OP2-P-O3'	6.25	118.95	105.20
1	A1	25	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	364	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	477	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	2496	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	4762	DT	P-O3'-C3'	-6.25	112.20	119.70
30	C6	39	DA	OP2-P-O3'	6.25	118.95	105.20
60	F2	10	DT	P-O3'-C3'	-6.25	112.20	119.70
69	FD	22	DT	P-O3'-C3'	-6.25	112.20	119.70
92	I1	10	DT	P-O3'-C3'	-6.25	112.20	119.70
105	J3	29	DA	OP2-P-O3'	6.25	118.95	105.20
143	MA	37	DA	OP2-P-O3'	6.25	118.95	105.20
148	N5	20	DA	OP2-P-O3'	6.25	118.95	105.20
151	N8	4	DA	OP2-P-O3'	6.25	118.95	105.20
181	Q9	21	DA	OP2-P-O3'	6.25	118.95	105.20
198	S8	44	DA	OP2-P-O3'	6.25	118.95	105.20
210	TC	26	DA	OP2-P-O3'	6.25	118.95	105.20
237	X7	19	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	742	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	763	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	1621	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	1663	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	1729	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	1940	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	2352	DA	OP2-P-O3'	6.25	118.95	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2399	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	2763	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	3070	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	3206	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	4440	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	4547	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	4587	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	5426	DA	OP2-P-O3'	6.25	118.95	105.20
11	AB	5775	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	6624	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	7098	DA	OP2-P-O3'	6.25	118.95	105.20
25	BD	8	DA	OP2-P-O3'	6.25	118.94	105.20
27	C2	10	DA	OP2-P-O3'	6.25	118.95	105.20
30	C6	4	DT	P-O3'-C3'	-6.25	112.20	119.70
35	CC	19	DT	P-O3'-C3'	-6.25	112.20	119.70
100	IA	12	DT	P-O3'-C3'	-6.25	112.20	119.70
104	J2	9	DA	OP2-P-O3'	6.25	118.95	105.20
104	J2	17	DA	OP2-P-O3'	6.25	118.95	105.20
104	J2	24	DA	OP2-P-O3'	6.25	118.95	105.20
131	L8	23	DA	OP2-P-O3'	6.25	118.95	105.20
138	M5	3	DA	OP2-P-O3'	6.25	118.95	105.20
156	O2	7	DA	OP2-P-O3'	6.25	118.95	105.20
156	O2	32	DA	OP2-P-O3'	6.25	118.95	105.20
167	P3	1	DA	OP2-P-O3'	6.25	118.95	105.20
175	PD	9	DA	OP2-P-O3'	6.25	118.94	105.20
194	S2	9	DT	P-O3'-C3'	-6.25	112.20	119.70
196	S5	19	DA	OP2-P-O3'	6.25	118.94	105.20
208	T9	8	DA	OP2-P-O3'	6.25	118.94	105.20
212	U2	24	DA	OP2-P-O3'	6.25	118.95	105.20
217	U9	5	DT	P-O3'-C3'	-6.25	112.20	119.70
220	UD	3	DT	P-O3'-C3'	-6.25	112.20	119.70
230	W3	33	DT	P-O3'-C3'	-6.25	112.20	119.70
234	W9	4	DA	OP2-P-O3'	6.25	118.95	105.20
1	A1	27	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	98	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	700	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	1866	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	2102	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	2153	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	2505	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	2871	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	2959	DA	OP2-P-O3'	6.25	118.94	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2982	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	3463	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	3496	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	3969	DT	P-O3'-C3'	-6.25	112.20	119.70
11	AB	4330	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	4388	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	4876	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	5211	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	5219	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	5988	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	5990	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	6230	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	6251	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	6443	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	6987	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	7224	DA	OP2-P-O3'	6.25	118.94	105.20
30	C6	22	DA	OP2-P-O3'	6.25	118.94	105.20
79	GC	23	DA	OP2-P-O3'	6.25	118.94	105.20
90	HC	22	DA	OP2-P-O3'	6.25	118.94	105.20
97	I7	19	DA	OP2-P-O3'	6.25	118.94	105.20
116	K3	7	DA	OP2-P-O3'	6.25	118.94	105.20
116	K3	19	DA	OP2-P-O3'	6.25	118.94	105.20
117	K5	7	DA	OP2-P-O3'	6.25	118.94	105.20
130	L7	18	DT	P-O3'-C3'	-6.25	112.20	119.70
141	M8	16	DA	OP2-P-O3'	6.25	118.94	105.20
149	N6	45	DA	OP2-P-O3'	6.25	118.94	105.20
157	O3	5	DA	OP2-P-O3'	6.25	118.94	105.20
176	Q2	13	DA	OP2-P-O3'	6.25	118.94	105.20
187	R5	8	DA	OP2-P-O3'	6.25	118.94	105.20
201	SC	8	DA	OP2-P-O3'	6.25	118.94	105.20
203	T2	20	DA	OP2-P-O3'	6.25	118.94	105.20
208	T9	12	DT	P-O3'-C3'	-6.25	112.20	119.70
209	TA	38	DA	OP2-P-O3'	6.25	118.94	105.20
221	V2	26	DA	OP2-P-O3'	6.25	118.94	105.20
223	V5	29	DA	OP2-P-O3'	6.25	118.94	105.20
227	VA	2	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	2048	DT	P-O3'-C3'	-6.25	112.21	119.70
11	AB	3377	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	4059	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	4115	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	4237	DT	P-O3'-C3'	-6.25	112.21	119.70
11	AB	4312	DA	OP2-P-O3'	6.25	118.94	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4381	DA	OP2-P-O3'	6.25	118.94	105.20
11	AB	5445	DA	OP2-P-O3'	6.25	118.94	105.20
20	B7	7	DA	OP2-P-O3'	6.25	118.94	105.20
37	D1	23	DA	OP2-P-O3'	6.25	118.94	105.20
44	D9	20	DT	P-O3'-C3'	-6.25	112.21	119.70
52	E6	5	DA	OP2-P-O3'	6.25	118.94	105.20
93	I2	12	DA	OP2-P-O3'	6.25	118.94	105.20
126	L2	25	DA	OP2-P-O3'	6.25	118.94	105.20
149	N6	18	DA	OP2-P-O3'	6.25	118.94	105.20
150	N7	17	DA	OP2-P-O3'	6.25	118.94	105.20
157	O3	20	DT	P-O3'-C3'	-6.25	112.21	119.70
168	P5	17	DA	OP2-P-O3'	6.25	118.94	105.20
220	UD	21	DA	OP2-P-O3'	6.25	118.94	105.20
225	V8	8	DT	P-O3'-C3'	-6.25	112.21	119.70
11	AB	467	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	531	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	542	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	1036	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	1133	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	1629	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	1809	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	2215	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	2223	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	2577	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	3018	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	3072	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	3956	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	5829	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	5882	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	5886	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	6036	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	6288	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	6376	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	6391	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	6440	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	6622	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	6716	DT	OP1-P-O3'	6.24	118.94	105.20
11	AB	6743	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	6952	DA	OP2-P-O3'	6.24	118.94	105.20
11	AB	7113	DA	OP2-P-O3'	6.24	118.94	105.20
25	BD	5	DA	OP2-P-O3'	6.24	118.94	105.20
48	E1	22	DT	P-O3'-C3'	-6.24	112.21	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
70	G1	2	DA	OP2-P-O3'	6.24	118.94	105.20
75	G7	9	DA	OP2-P-O3'	6.24	118.94	105.20
82	H2	24	DA	OP2-P-O3'	6.24	118.94	105.20
91	HD	23	DA	OP2-P-O3'	6.24	118.94	105.20
95	I5	23	DT	P-O3'-C3'	-6.24	112.21	119.70
97	I7	9	DA	OP2-P-O3'	6.24	118.93	105.20
103	J1	1	DA	OP2-P-O3'	6.24	118.94	105.20
105	J3	14	DA	OP2-P-O3'	6.24	118.93	105.20
122	KA	24	DA	OP2-P-O3'	6.24	118.94	105.20
122	KA	39	DA	OP2-P-O3'	6.24	118.94	105.20
132	L9	15	DA	OP2-P-O3'	6.24	118.94	105.20
148	N5	23	DA	OP2-P-O3'	6.24	118.94	105.20
177	Q3	7	DA	OP2-P-O3'	6.24	118.93	105.20
177	Q3	14	DA	OP2-P-O3'	6.24	118.93	105.20
184	QD	6	DA	OP2-P-O3'	6.24	118.94	105.20
186	R3	21	DT	P-O3'-C3'	-6.24	112.21	119.70
190	R9	40	DA	OP2-P-O3'	6.24	118.94	105.20
194	S2	10	DA	OP2-P-O3'	6.24	118.94	105.20
224	V7	11	DA	OP2-P-O3'	6.24	118.94	105.20
225	V8	25	DA	OP2-P-O3'	6.24	118.94	105.20
226	V9	29	DA	OP2-P-O3'	6.24	118.94	105.20
228	VC	4	DA	OP2-P-O3'	6.24	118.94	105.20
230	W3	15	DA	OP2-P-O3'	6.24	118.94	105.20
234	W9	2	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	271	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	462	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	1444	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	3228	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	3285	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	3877	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	5224	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	6972	DA	OP2-P-O3'	6.24	118.93	105.20
38	D2	2	DA	OP2-P-O3'	6.24	118.93	105.20
52	E6	12	DA	OP2-P-O3'	6.24	118.93	105.20
67	FA	20	DT	P-O3'-C3'	-6.24	112.21	119.70
83	H3	9	DT	P-O3'-C3'	-6.24	112.21	119.70
120	K8	13	DA	OP2-P-O3'	6.24	118.93	105.20
152	N9	33	DA	OP2-P-O3'	6.24	118.93	105.20
164	OC	7	DA	OP2-P-O3'	6.24	118.93	105.20
192	RC	15	DT	P-O3'-C3'	-6.24	112.21	119.70
238	X9	58	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	49	DT	P-O3'-C3'	-6.24	112.21	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	600	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	705	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	1064	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	1149	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	1399	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	2039	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	2894	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	2953	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	2975	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	3050	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	3259	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	3302	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	3609	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	3618	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	4631	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	4687	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	4716	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	4722	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	4861	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	5189	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	5651	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	6702	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	6844	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	6898	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	6971	DT	P-O3'-C3'	-6.24	112.21	119.70
29	C5	18	DA	OP2-P-O3'	6.24	118.93	105.20
42	D7	12	DA	OP2-P-O3'	6.24	118.93	105.20
48	E1	23	DA	OP2-P-O3'	6.24	118.93	105.20
57	EC	3	DA	OP2-P-O3'	6.24	118.93	105.20
60	F2	33	DA	OP2-P-O3'	6.24	118.93	105.20
66	F9	11	DA	OP2-P-O3'	6.24	118.93	105.20
73	G5	11	DA	OP2-P-O3'	6.24	118.93	105.20
78	GA	15	DA	OP2-P-O3'	6.24	118.93	105.20
81	H1	9	DA	OP2-P-O3'	6.24	118.93	105.20
94	I3	26	DA	OP2-P-O3'	6.24	118.93	105.20
107	J6	17	DA	OP2-P-O3'	6.24	118.93	105.20
114	K1	3	DT	P-O3'-C3'	-6.24	112.21	119.70
121	K9	23	DA	OP2-P-O3'	6.24	118.93	105.20
124	KD	3	DA	OP2-P-O3'	6.24	118.93	105.20
126	L2	7	DA	OP2-P-O3'	6.24	118.93	105.20
135	LD	11	DA	OP2-P-O3'	6.24	118.93	105.20
141	M8	8	DA	OP2-P-O3'	6.24	118.93	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
141	M8	26	DA	OP2-P-O3'	6.24	118.93	105.20
152	N9	21	DT	P-O3'-C3'	-6.24	112.21	119.70
190	R9	43	DA	OP2-P-O3'	6.24	118.93	105.20
191	RA	29	DT	P-O3'-C3'	-6.24	112.21	119.70
193	RD	12	DT	P-O3'-C3'	-6.24	112.21	119.70
198	S8	43	DT	P-O3'-C3'	-6.24	112.21	119.70
202	SD	18	DA	OP2-P-O3'	6.24	118.93	105.20
203	T2	27	DA	OP2-P-O3'	6.24	118.93	105.20
9	A9	12	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	47	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	199	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	255	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	2182	DT	P-O3'-C3'	-6.24	112.22	119.70
11	AB	2241	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	2858	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	3935	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	4123	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	4224	DT	P-O3'-C3'	-6.24	112.21	119.70
11	AB	4251	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	4764	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	4781	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	4799	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	4879	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	4990	DA	OP2-P-O3'	6.24	118.93	105.20
11	AB	5415	DA	OP2-P-O3'	6.24	118.93	105.20
18	B5	24	DA	OP2-P-O3'	6.24	118.92	105.20
41	D6	15	DA	OP2-P-O3'	6.24	118.92	105.20
42	D7	16	DA	OP2-P-O3'	6.24	118.92	105.20
43	D8	22	DA	OP2-P-O3'	6.24	118.92	105.20
59	F1	16	DA	OP2-P-O3'	6.24	118.93	105.20
101	IC	21	DA	OP2-P-O3'	6.24	118.93	105.20
104	J2	6	DA	OP2-P-O3'	6.24	118.92	105.20
110	J9	6	DA	OP2-P-O3'	6.24	118.93	105.20
117	K5	9	DA	OP2-P-O3'	6.24	118.92	105.20
119	K7	10	DA	OP2-P-O3'	6.24	118.92	105.20
122	KA	1	DA	OP2-P-O3'	6.24	118.93	105.20
124	KD	13	DA	OP2-P-O3'	6.24	118.92	105.20
135	LD	19	DT	P-O3'-C3'	-6.24	112.21	119.70
137	M3	31	DA	OP2-P-O3'	6.24	118.92	105.20
143	MA	5	DT	P-O3'-C3'	-6.24	112.22	119.70
145	MD	48	DA	OP2-P-O3'	6.24	118.92	105.20
156	O2	37	DA	OP2-P-O3'	6.24	118.92	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
162	O9	15	DA	OP2-P-O3'	6.24	118.93	105.20
165	OD	19	DA	OP2-P-O3'	6.24	118.93	105.20
182	QA	22	DA	OP2-P-O3'	6.24	118.92	105.20
183	QC	15	DT	P-O3'-C3'	-6.24	112.22	119.70
196	S5	31	DT	P-O3'-C3'	-6.24	112.21	119.70
227	VA	15	DA	OP2-P-O3'	6.24	118.93	105.20
227	VA	26	DA	OP2-P-O3'	6.24	118.93	105.20
2	A2	20	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	109	DT	P-O3'-C3'	-6.24	112.22	119.70
11	AB	1403	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	2465	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	2660	DT	P-O3'-C3'	-6.24	112.22	119.70
11	AB	4359	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	4451	DA	OP2-P-O3'	6.24	118.92	105.20
12	AC	6	DA	OP2-P-O3'	6.24	118.92	105.20
32	C8	21	DA	OP2-P-O3'	6.24	118.92	105.20
37	D1	41	DA	OP2-P-O3'	6.24	118.92	105.20
42	D7	1	DT	P-O3'-C3'	-6.24	112.22	119.70
47	DD	9	DA	OP2-P-O3'	6.24	118.92	105.20
48	E1	29	DA	OP2-P-O3'	6.24	118.92	105.20
54	E8	20	DA	OP2-P-O3'	6.24	118.92	105.20
74	G6	11	DA	OP2-P-O3'	6.24	118.92	105.20
78	GA	5	DA	OP2-P-O3'	6.24	118.92	105.20
88	H9	18	DA	OP2-P-O3'	6.24	118.92	105.20
94	I3	4	DA	OP2-P-O3'	6.24	118.92	105.20
95	I5	40	DT	P-O3'-C3'	-6.24	112.22	119.70
109	J8	8	DA	OP2-P-O3'	6.24	118.92	105.20
120	K8	16	DA	OP2-P-O3'	6.24	118.92	105.20
149	N6	14	DT	P-O3'-C3'	-6.24	112.22	119.70
167	P3	20	DA	OP2-P-O3'	6.24	118.92	105.20
173	PA	34	DA	OP2-P-O3'	6.24	118.92	105.20
174	PC	5	DA	OP2-P-O3'	6.24	118.92	105.20
184	QD	8	DT	P-O3'-C3'	-6.24	112.22	119.70
198	S8	32	DA	OP2-P-O3'	6.24	118.92	105.20
204	T3	36	DT	P-O3'-C3'	-6.24	112.22	119.70
10	AA	9	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	240	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	1195	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	1722	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	1726	DT	P-O3'-C3'	-6.24	112.22	119.70
11	AB	2616	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	2774	DT	P-O3'-C3'	-6.24	112.22	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3297	DT	P-O3'-C3'	-6.24	112.22	119.70
11	AB	3957	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	4257	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	4288	DA	OP2-P-O3'	6.24	118.92	105.20
11	AB	5967	DT	P-O3'-C3'	-6.24	112.22	119.70
11	AB	6738	DT	P-O3'-C3'	-6.24	112.22	119.70
11	AB	6950	DA	OP2-P-O3'	6.24	118.92	105.20
26	C1	2	DC	P-O3'-C3'	-6.24	112.22	119.70
60	F2	28	DA	OP2-P-O3'	6.24	118.92	105.20
62	F5	46	DT	P-O3'-C3'	-6.24	112.22	119.70
75	G7	5	DA	OP2-P-O3'	6.24	118.92	105.20
81	H1	19	DT	P-O3'-C3'	-6.24	112.22	119.70
84	H5	27	DT	P-O3'-C3'	-6.24	112.22	119.70
86	H7	18	DT	P-O3'-C3'	-6.24	112.22	119.70
95	I5	2	DA	OP2-P-O3'	6.24	118.92	105.20
96	I6	16	DA	OP2-P-O3'	6.24	118.92	105.20
112	JC	9	DA	OP2-P-O3'	6.24	118.92	105.20
113	JD	34	DT	P-O3'-C3'	-6.24	112.22	119.70
115	K2	7	DT	P-O3'-C3'	-6.24	112.22	119.70
127	L3	16	DA	OP2-P-O3'	6.24	118.92	105.20
137	M3	23	DA	OP2-P-O3'	6.24	118.92	105.20
143	MA	23	DA	OP2-P-O3'	6.24	118.92	105.20
157	O3	4	DT	P-O3'-C3'	-6.24	112.22	119.70
161	O8	29	DA	OP2-P-O3'	6.24	118.92	105.20
164	OC	22	DA	OP2-P-O3'	6.24	118.92	105.20
189	R8	22	DA	OP2-P-O3'	6.24	118.92	105.20
189	R8	36	DA	OP2-P-O3'	6.24	118.92	105.20
205	T5	5	DA	OP2-P-O3'	6.24	118.92	105.20
210	TC	5	DA	OP2-P-O3'	6.24	118.92	105.20
216	U8	15	DA	OP2-P-O3'	6.24	118.92	105.20
235	WD	15	DA	OP2-P-O3'	6.24	118.92	105.20
236	X5	11	DT	P-O3'-C3'	-6.24	112.22	119.70
5	A5	36	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	528	DA	OP2-P-O3'	6.23	118.92	105.20
11	AB	1327	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	1388	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	3184	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	3672	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	4930	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5740	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5832	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	6617	DA	OP2-P-O3'	6.23	118.92	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6776	DT	P-O3'-C3'	-6.23	112.22	119.70
41	D6	12	DA	OP2-P-O3'	6.23	118.91	105.20
55	E9	39	DA	OP2-P-O3'	6.23	118.91	105.20
85	H6	27	DA	OP2-P-O3'	6.23	118.92	105.20
94	I3	18	DA	OP2-P-O3'	6.23	118.92	105.20
125	L1	4	DA	OP2-P-O3'	6.23	118.92	105.20
156	O2	51	DA	OP2-P-O3'	6.23	118.91	105.20
190	R9	3	DT	P-O3'-C3'	-6.23	112.22	119.70
206	T7	19	DA	OP2-P-O3'	6.23	118.91	105.20
230	W3	34	DA	OP2-P-O3'	6.23	118.91	105.20
6	A6	13	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	67	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	323	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	682	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	699	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	1051	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	1213	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	1505	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	1578	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	2387	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	2741	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	2758	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	3327	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	3577	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	3901	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	4027	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	4342	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	4443	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	4566	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	4634	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5144	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5310	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5630	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5938	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5962	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5980	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	6329	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	6370	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	6553	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	6660	DA	OP2-P-O3'	6.23	118.91	105.20
15	B2	7	DA	OP2-P-O3'	6.23	118.91	105.20
22	B9	37	DA	OP2-P-O3'	6.23	118.91	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BC	29	DA	OP2-P-O3'	6.23	118.91	105.20
27	C2	15	DA	OP2-P-O3'	6.23	118.91	105.20
29	C5	17	DT	P-O3'-C3'	-6.23	112.22	119.70
29	C5	25	DA	OP2-P-O3'	6.23	118.91	105.20
37	D1	20	DA	OP2-P-O3'	6.23	118.91	105.20
43	D8	45	DT	P-O3'-C3'	-6.23	112.22	119.70
49	E2	42	DA	OP2-P-O3'	6.23	118.91	105.20
54	E8	19	DT	P-O3'-C3'	-6.23	112.22	119.70
89	HA	21	DA	OP2-P-O3'	6.23	118.91	105.20
98	I8	6	DT	P-O3'-C3'	-6.23	112.22	119.70
103	J1	6	DA	OP2-P-O3'	6.23	118.91	105.20
107	J6	36	DT	P-O3'-C3'	-6.23	112.22	119.70
108	J7	45	DA	OP2-P-O3'	6.23	118.91	105.20
139	M6	15	DT	P-O3'-C3'	-6.23	112.22	119.70
156	O2	34	DT	P-O3'-C3'	-6.23	112.22	119.70
158	O5	8	DT	P-O3'-C3'	-6.23	112.22	119.70
237	X7	6	DA	OP2-P-O3'	6.23	118.91	105.20
238	X9	13	DA	OP2-P-O3'	6.23	118.91	105.20
5	A5	26	DT	P-O3'-C3'	-6.23	112.22	119.70
7	A7	25	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	504	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	553	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	1017	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	1169	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	1920	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	2331	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	3117	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	3338	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	3673	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	3867	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	3908	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	4737	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	4896	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	4957	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	5142	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5319	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	5344	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5827	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5851	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	5969	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	6015	DA	OP2-P-O3'	6.23	118.91	105.20
11	AB	6027	DA	OP2-P-O3'	6.23	118.91	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6347	DA	OP2-P-O3'	6.23	118.91	105.20
13	AD	17	DA	OP2-P-O3'	6.23	118.91	105.20
22	B9	31	DA	OP2-P-O3'	6.23	118.91	105.20
23	BA	23	DA	OP2-P-O3'	6.23	118.91	105.20
25	BD	12	DT	P-O3'-C3'	-6.23	112.22	119.70
47	DD	43	DA	OP2-P-O3'	6.23	118.91	105.20
51	E5	33	DA	OP2-P-O3'	6.23	118.91	105.20
69	FD	42	DA	OP2-P-O3'	6.23	118.91	105.20
72	G3	21	DT	P-O3'-C3'	-6.23	112.22	119.70
82	H2	31	DA	OP2-P-O3'	6.23	118.91	105.20
93	I2	1	DA	OP2-P-O3'	6.23	118.91	105.20
98	I8	8	DA	OP2-P-O3'	6.23	118.91	105.20
98	I8	16	DT	P-O3'-C3'	-6.23	112.22	119.70
99	I9	2	DA	OP2-P-O3'	6.23	118.91	105.20
106	J5	1	DA	OP2-P-O3'	6.23	118.91	105.20
121	K9	29	DA	OP2-P-O3'	6.23	118.91	105.20
126	L2	32	DT	P-O3'-C3'	-6.23	112.22	119.70
126	L2	57	DA	OP2-P-O3'	6.23	118.91	105.20
143	MA	16	DT	P-O3'-C3'	-6.23	112.22	119.70
147	N3	9	DA	OP2-P-O3'	6.23	118.91	105.20
158	O5	35	DA	OP2-P-O3'	6.23	118.91	105.20
160	O7	39	DA	OP2-P-O3'	6.23	118.91	105.20
198	S8	16	DA	OP2-P-O3'	6.23	118.91	105.20
221	V2	5	DA	OP2-P-O3'	6.23	118.91	105.20
222	V3	2	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	1079	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	2330	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	2762	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	3480	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	3531	DT	P-O3'-C3'	-6.23	112.22	119.70
11	AB	3897	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	4051	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	6683	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	6763	DA	OP2-P-O3'	6.23	118.91	105.20
22	B9	29	DT	P-O3'-C3'	-6.23	112.23	119.70
54	E8	7	DT	P-O3'-C3'	-6.23	112.23	119.70
69	FD	15	DA	OP2-P-O3'	6.23	118.90	105.20
75	G7	7	DT	P-O3'-C3'	-6.23	112.22	119.70
77	G9	4	DA	OP2-P-O3'	6.23	118.90	105.20
158	O5	23	DT	P-O3'-C3'	-6.23	112.22	119.70
159	O6	22	DA	OP2-P-O3'	6.23	118.90	105.20
211	TD	8	DA	OP2-P-O3'	6.23	118.91	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	342	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	464	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	503	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	785	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	1055	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	1373	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	1650	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	1682	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	1776	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	1957	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	2562	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	2994	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	3080	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	3401	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	3551	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	3596	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	5201	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	5333	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	5736	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	6011	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	6162	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	6522	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	6537	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	6804	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	6926	DA	OP2-P-O3'	6.23	118.90	105.20
13	AD	5	DT	P-O3'-C3'	-6.23	112.23	119.70
35	CC	9	DA	OP2-P-O3'	6.23	118.90	105.20
41	D6	25	DA	OP2-P-O3'	6.23	118.90	105.20
52	E6	19	DA	OP2-P-O3'	6.23	118.90	105.20
94	I3	7	DT	P-O3'-C3'	-6.23	112.23	119.70
130	L7	46	DT	P-O3'-C3'	-6.23	112.23	119.70
133	LA	16	DA	OP2-P-O3'	6.23	118.90	105.20
138	M5	18	DT	P-O3'-C3'	-6.23	112.23	119.70
165	OD	15	DA	OP2-P-O3'	6.23	118.90	105.20
166	P2	26	DT	P-O3'-C3'	-6.23	112.23	119.70
183	QC	17	DA	OP2-P-O3'	6.23	118.90	105.20
192	RC	19	DA	OP2-P-O3'	6.23	118.90	105.20
205	T5	13	DA	OP2-P-O3'	6.23	118.90	105.20
235	WD	7	DA	OP2-P-O3'	6.23	118.90	105.20
238	X9	34	DA	OP2-P-O3'	6.23	118.90	105.20
1	A1	44	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	163	DT	P-O3'-C3'	-6.23	112.23	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	210	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	298	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	1307	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	2255	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	2259	DA	OP2-P-O3'	6.23	118.90	105.20
11	AB	2443	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	4069	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	5153	DA	OP2-P-O3'	6.23	118.90	105.20
28	C3	5	DA	OP2-P-O3'	6.23	118.90	105.20
32	C8	33	DA	OP2-P-O3'	6.23	118.90	105.20
42	D7	10	DT	P-O3'-C3'	-6.23	112.23	119.70
69	FD	33	DT	P-O3'-C3'	-6.23	112.23	119.70
71	G2	19	DA	OP2-P-O3'	6.23	118.90	105.20
72	G3	23	DA	OP2-P-O3'	6.23	118.90	105.20
107	J6	24	DT	P-O3'-C3'	-6.23	112.23	119.70
113	JD	27	DA	OP2-P-O3'	6.23	118.90	105.20
154	NC	13	DT	P-O3'-C3'	-6.23	112.23	119.70
211	TD	2	DT	P-O3'-C3'	-6.23	112.23	119.70
222	V3	15	DA	OP2-P-O3'	6.23	118.90	105.20
231	W5	19	DT	P-O3'-C3'	-6.23	112.23	119.70
11	AB	77	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	257	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	349	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	1043	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	1086	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	1117	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	1766	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	2116	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	2406	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	2952	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	2979	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	3874	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	5126	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	5753	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	5919	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	6079	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	6585	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	6890	DT	P-O3'-C3'	-6.22	112.23	119.70
12	AC	10	DT	P-O3'-C3'	-6.22	112.23	119.70
15	B2	18	DT	P-O3'-C3'	-6.22	112.23	119.70
21	B8	1	DT	P-O3'-C3'	-6.22	112.23	119.70
33	C9	15	DT	P-O3'-C3'	-6.22	112.23	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
60	F2	32	DT	P-O3'-C3'	-6.22	112.23	119.70
67	FA	8	DT	P-O3'-C3'	-6.22	112.23	119.70
79	GC	22	DT	P-O3'-C3'	-6.22	112.23	119.70
85	H6	34	DA	OP2-P-O3'	6.22	118.89	105.20
87	H8	10	DA	OP2-P-O3'	6.22	118.89	105.20
106	J5	22	DA	OP2-P-O3'	6.22	118.89	105.20
130	L7	11	DT	P-O3'-C3'	-6.22	112.23	119.70
143	MA	35	DA	OP2-P-O3'	6.22	118.89	105.20
148	N5	25	DT	P-O3'-C3'	-6.22	112.23	119.70
159	O6	12	DT	P-O3'-C3'	-6.22	112.23	119.70
176	Q2	12	DT	P-O3'-C3'	-6.22	112.23	119.70
184	QD	27	DT	P-O3'-C3'	-6.22	112.23	119.70
207	T8	11	DA	OP2-P-O3'	6.22	118.89	105.20
214	U5	4	DA	OP2-P-O3'	6.22	118.89	105.20
214	U5	11	DT	P-O3'-C3'	-6.22	112.23	119.70
219	UC	29	DA	OP2-P-O3'	6.22	118.89	105.20
2	A2	18	DT	P-O3'-C3'	-6.22	112.23	119.70
7	A7	30	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	279	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	324	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	829	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	1042	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	1368	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	4016	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	4058	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	4580	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	4830	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	5141	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	5715	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	5826	DT	P-O3'-C3'	-6.22	112.23	119.70
35	CC	25	DT	P-O3'-C3'	-6.22	112.23	119.70
43	D8	38	DA	OP2-P-O3'	6.22	118.89	105.20
71	G2	12	DA	OP2-P-O3'	6.22	118.89	105.20
85	H6	8	DA	OP2-P-O3'	6.22	118.89	105.20
115	K2	33	DT	P-O3'-C3'	-6.22	112.23	119.70
127	L3	7	DT	P-O3'-C3'	-6.22	112.23	119.70
129	L6	14	DT	P-O3'-C3'	-6.22	112.23	119.70
145	MD	17	DT	P-O3'-C3'	-6.22	112.23	119.70
160	O7	9	DT	P-O3'-C3'	-6.22	112.23	119.70
169	P6	21	DT	P-O3'-C3'	-6.22	112.23	119.70
170	P7	19	DT	P-O3'-C3'	-6.22	112.23	119.70
171	P8	16	DA	OP2-P-O3'	6.22	118.89	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
171	P8	24	DT	P-O3'-C3'	-6.22	112.23	119.70
180	Q8	18	DT	P-O3'-C3'	-6.22	112.23	119.70
182	QA	16	DA	OP2-P-O3'	6.22	118.89	105.20
197	S7	1	DA	OP2-P-O3'	6.22	118.89	105.20
210	TC	13	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	4	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	491	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	3093	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	5258	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	6073	DA	OP2-P-O3'	6.22	118.89	105.20
162	O9	9	DT	P-O3'-C3'	-6.22	112.23	119.70
198	S8	36	DA	OP2-P-O3'	6.22	118.89	105.20
202	SD	11	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	103	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	274	DA	OP2-P-O3'	6.22	118.89	105.20
11	AB	461	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	620	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	810	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	1620	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	3177	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	3853	DA	OP2-P-O3'	6.22	118.88	105.20
11	AB	4378	DA	OP2-P-O3'	6.22	118.88	105.20
11	AB	5038	DA	OP2-P-O3'	6.22	118.88	105.20
11	AB	5284	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	5418	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	5439	DA	OP2-P-O3'	6.22	118.88	105.20
11	AB	5880	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	5994	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	6561	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	7007	DT	P-O3'-C3'	-6.22	112.24	119.70
14	B1	30	DA	OP2-P-O3'	6.22	118.89	105.20
26	C1	7	DT	P-O3'-C3'	-6.22	112.24	119.70
28	C3	9	DT	P-O3'-C3'	-6.22	112.24	119.70
48	E1	31	DA	OP2-P-O3'	6.22	118.88	105.20
89	HA	18	DT	P-O3'-C3'	-6.22	112.24	119.70
100	IA	10	DA	OP2-P-O3'	6.22	118.88	105.20
114	K1	20	DT	P-O3'-C3'	-6.22	112.24	119.70
123	KC	24	DA	OP2-P-O3'	6.22	118.89	105.20
125	L1	39	DA	OP2-P-O3'	6.22	118.88	105.20
136	M2	13	DT	P-O3'-C3'	-6.22	112.24	119.70
139	M6	6	DT	P-O3'-C3'	-6.22	112.24	119.70
154	NC	36	DT	P-O3'-C3'	-6.22	112.24	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
160	O7	51	DT	P-O3'-C3'	-6.22	112.24	119.70
179	Q7	14	DT	P-O3'-C3'	-6.22	112.24	119.70
196	S5	6	DA	OP2-P-O3'	6.22	118.89	105.20
196	S5	15	DA	OP2-P-O3'	6.22	118.88	105.20
210	TC	18	DT	P-O3'-C3'	-6.22	112.24	119.70
216	U8	6	DT	P-O3'-C3'	-6.22	112.24	119.70
224	V7	7	DT	P-O3'-C3'	-6.22	112.23	119.70
11	AB	507	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	1606	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	2476	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	2736	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	3048	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	4206	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	5768	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	5830	DA	OP2-P-O3'	6.22	118.88	105.20
19	B6	11	DA	OP2-P-O3'	6.22	118.88	105.20
47	DD	18	DA	OP2-P-O3'	6.22	118.88	105.20
62	F5	15	DA	OP2-P-O3'	6.22	118.88	105.20
98	I8	40	DT	P-O3'-C3'	-6.22	112.24	119.70
122	KA	9	DT	P-O3'-C3'	-6.22	112.24	119.70
133	LA	21	DT	P-O3'-C3'	-6.22	112.24	119.70
138	M5	20	DT	P-O3'-C3'	-6.22	112.24	119.70
196	S5	5	DT	P-O3'-C3'	-6.22	112.24	119.70
221	V2	2	DT	P-O3'-C3'	-6.22	112.24	119.70
221	V2	8	DT	P-O3'-C3'	-6.22	112.24	119.70
238	X9	47	DT	P-O3'-C3'	-6.22	112.24	119.70
4	A4	32	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	617	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	1001	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	1324	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	1745	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	1826	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	2146	DA	OP2-P-O3'	6.22	118.88	105.20
11	AB	2222	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	2349	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	2367	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	2575	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	2693	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	2945	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	5165	DA	OP2-P-O3'	6.22	118.88	105.20
11	AB	6451	DT	P-O3'-C3'	-6.22	112.24	119.70
11	AB	6496	DT	P-O3'-C3'	-6.22	112.24	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6986	DT	P-O3'-C3'	-6.22	112.24	119.70
17	B4	7	DT	P-O3'-C3'	-6.22	112.24	119.70
26	C1	21	DT	P-O3'-C3'	-6.22	112.24	119.70
29	C5	30	DT	P-O3'-C3'	-6.22	112.24	119.70
37	D1	38	DT	P-O3'-C3'	-6.22	112.24	119.70
49	E2	9	DT	P-O3'-C3'	-6.22	112.24	119.70
52	E6	2	DT	P-O3'-C3'	-6.22	112.24	119.70
102	ID	11	DA	OP2-P-O3'	6.22	118.88	105.20
104	J2	38	DT	P-O3'-C3'	-6.22	112.24	119.70
108	J7	41	DA	OP2-P-O3'	6.22	118.87	105.20
115	K2	28	DA	OP2-P-O3'	6.22	118.88	105.20
118	K6	21	DT	P-O3'-C3'	-6.22	112.24	119.70
135	LD	10	DT	P-O3'-C3'	-6.22	112.24	119.70
146	N2	18	DT	P-O3'-C3'	-6.22	112.24	119.70
147	N3	22	DA	OP2-P-O3'	6.22	118.88	105.20
159	O6	3	DT	P-O3'-C3'	-6.22	112.24	119.70
167	P3	27	DT	P-O3'-C3'	-6.22	112.24	119.70
175	PD	15	DT	P-O3'-C3'	-6.22	112.24	119.70
180	Q8	27	DT	P-O3'-C3'	-6.22	112.24	119.70
8	A8	14	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	1233	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	1455	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	1543	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	1934	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	2371	DA	OP2-P-O3'	6.21	118.87	105.20
11	AB	2402	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	3290	DA	OP2-P-O3'	6.21	118.87	105.20
11	AB	3922	DA	OP2-P-O3'	6.21	118.87	105.20
11	AB	4417	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	4838	DA	OP2-P-O3'	6.21	118.87	105.20
11	AB	5646	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	5674	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	6341	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	6468	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	6552	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	6762	DT	P-O3'-C3'	-6.21	112.24	119.70
24	BC	18	DT	P-O3'-C3'	-6.21	112.24	119.70
29	C5	8	DT	P-O3'-C3'	-6.21	112.24	119.70
37	D1	2	DT	P-O3'-C3'	-6.21	112.24	119.70
39	D3	23	DT	P-O3'-C3'	-6.21	112.24	119.70
51	E5	14	DT	P-O3'-C3'	-6.21	112.24	119.70
58	ED	15	DT	P-O3'-C3'	-6.21	112.24	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
63	F6	18	DT	P-O3'-C3'	-6.21	112.24	119.70
94	I3	25	DT	P-O3'-C3'	-6.21	112.24	119.70
145	MD	31	DA	OP2-P-O3'	6.21	118.87	105.20
161	O8	19	DA	OP2-P-O3'	6.21	118.87	105.20
165	OD	4	DT	P-O3'-C3'	-6.21	112.24	119.70
165	OD	47	DT	P-O3'-C3'	-6.21	112.24	119.70
182	QA	25	DT	P-O3'-C3'	-6.21	112.24	119.70
190	R9	16	DT	P-O3'-C3'	-6.21	112.24	119.70
193	RD	10	DT	P-O3'-C3'	-6.21	112.24	119.70
193	RD	21	DT	P-O3'-C3'	-6.21	112.24	119.70
213	U3	24	DA	OP2-P-O3'	6.21	118.87	105.20
227	VA	13	DT	P-O3'-C3'	-6.21	112.24	119.70
238	X9	21	DA	OP2-P-O3'	6.21	118.87	105.20
238	X9	27	DT	P-O3'-C3'	-6.21	112.24	119.70
1	A1	49	DA	OP2-P-O3'	6.21	118.87	105.20
11	AB	741	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	1482	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	3017	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	3669	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	4309	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	4350	DT	P-O3'-C3'	-6.21	112.24	119.70
11	AB	5690	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	6828	DT	P-O3'-C3'	-6.21	112.25	119.70
92	I1	20	DT	P-O3'-C3'	-6.21	112.25	119.70
94	I3	3	DT	P-O3'-C3'	-6.21	112.24	119.70
108	J7	25	DT	P-O3'-C3'	-6.21	112.24	119.70
113	JD	22	DT	P-O3'-C3'	-6.21	112.24	119.70
155	ND	17	DT	P-O3'-C3'	-6.21	112.25	119.70
181	Q9	30	DT	P-O3'-C3'	-6.21	112.25	119.70
210	TC	21	DA	OP2-P-O3'	6.21	118.87	105.20
4	A4	30	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	296	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	341	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	689	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	1397	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	1759	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	2129	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	2494	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	3027	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	4699	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	4875	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	5349	DT	P-O3'-C3'	-6.21	112.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5524	DA	OP2-P-O3'	6.21	118.86	105.20
11	AB	5810	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	5937	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	6375	DT	P-O3'-C3'	-6.21	112.25	119.70
34	CA	3	DT	P-O3'-C3'	-6.21	112.25	119.70
44	D9	8	DT	P-O3'-C3'	-6.21	112.25	119.70
47	DD	32	DA	OP2-P-O3'	6.21	118.87	105.20
52	E6	10	DT	P-O3'-C3'	-6.21	112.25	119.70
89	HA	7	DT	P-O3'-C3'	-6.21	112.25	119.70
101	IC	9	DT	P-O3'-C3'	-6.21	112.25	119.70
105	J3	22	DA	OP2-P-O3'	6.21	118.86	105.20
107	J6	31	DT	P-O3'-C3'	-6.21	112.25	119.70
107	J6	33	DA	OP2-P-O3'	6.21	118.86	105.20
125	L1	38	DT	P-O3'-C3'	-6.21	112.25	119.70
131	L8	28	DT	P-O3'-C3'	-6.21	112.25	119.70
141	M8	22	DT	P-O3'-C3'	-6.21	112.25	119.70
145	MD	47	DT	P-O3'-C3'	-6.21	112.25	119.70
149	N6	16	DT	P-O3'-C3'	-6.21	112.25	119.70
178	Q5	25	DT	P-O3'-C3'	-6.21	112.25	119.70
189	R8	9	DT	P-O3'-C3'	-6.21	112.25	119.70
238	X9	41	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	2051	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	2748	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	2750	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	3201	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	7152	DT	P-O3'-C3'	-6.21	112.25	119.70
13	AD	23	DT	P-O3'-C3'	-6.21	112.25	119.70
23	BA	22	DT	P-O3'-C3'	-6.21	112.25	119.70
53	E7	22	DT	P-O3'-C3'	-6.21	112.25	119.70
85	H6	2	DT	P-O3'-C3'	-6.21	112.25	119.70
117	K5	1	DT	P-O3'-C3'	-6.21	112.25	119.70
143	MA	25	DA	OP2-P-O3'	6.21	118.86	105.20
176	Q2	20	DT	P-O3'-C3'	-6.21	112.25	119.70
211	TD	26	DT	P-O3'-C3'	-6.21	112.25	119.70
219	UC	16	DT	P-O3'-C3'	-6.21	112.25	119.70
229	VD	14	DA	OP2-P-O3'	6.21	118.86	105.20
236	X5	21	DT	P-O3'-C3'	-6.21	112.25	119.70
236	X5	23	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	646	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	1357	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	1496	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	2585	DT	P-O3'-C3'	-6.21	112.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2963	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	4954	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	5090	DA	OP2-P-O3'	6.21	118.86	105.20
11	AB	5339	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	5368	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	5504	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	6360	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	6528	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	6654	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	7097	DT	P-O3'-C3'	-6.21	112.25	119.70
35	CC	5	DT	P-O3'-C3'	-6.21	112.25	119.70
40	D5	22	DT	P-O3'-C3'	-6.21	112.25	119.70
44	D9	9	DA	OP2-P-O3'	6.21	118.86	105.20
51	E5	32	DT	P-O3'-C3'	-6.21	112.25	119.70
60	F2	16	DT	P-O3'-C3'	-6.21	112.25	119.70
64	F7	25	DT	P-O3'-C3'	-6.21	112.25	119.70
74	G6	10	DT	P-O3'-C3'	-6.21	112.25	119.70
80	GD	8	DT	P-O3'-C3'	-6.21	112.25	119.70
81	H1	8	DT	P-O3'-C3'	-6.21	112.25	119.70
82	H2	50	DT	P-O3'-C3'	-6.21	112.25	119.70
122	KA	38	DT	P-O3'-C3'	-6.21	112.25	119.70
146	N2	12	DT	P-O3'-C3'	-6.21	112.25	119.70
150	N7	10	DC	P-O3'-C3'	-6.21	112.25	119.70
158	O5	18	DA	OP2-P-O3'	6.21	118.86	105.20
168	P5	13	DT	P-O3'-C3'	-6.21	112.25	119.70
173	PA	32	DT	P-O3'-C3'	-6.21	112.25	119.70
177	Q3	13	DT	P-O3'-C3'	-6.21	112.25	119.70
184	QD	3	DA	OP2-P-O3'	6.21	118.86	105.20
203	T2	8	DT	P-O3'-C3'	-6.21	112.25	119.70
208	T9	6	DT	P-O3'-C3'	-6.21	112.25	119.70
212	U2	15	DT	P-O3'-C3'	-6.21	112.25	119.70
214	U5	31	DT	P-O3'-C3'	-6.21	112.25	119.70
237	X7	1	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	715	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	2498	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	2928	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	3248	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	4031	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	4786	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	5653	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	5900	DA	OP2-P-O3'	6.21	118.86	105.20
11	AB	6198	DT	P-O3'-C3'	-6.21	112.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7134	DT	P-O3'-C3'	-6.21	112.25	119.70
13	AD	12	DT	P-O3'-C3'	-6.21	112.25	119.70
26	C1	5	DT	P-O3'-C3'	-6.21	112.25	119.70
26	C1	16	DT	P-O3'-C3'	-6.21	112.25	119.70
39	D3	17	DT	P-O3'-C3'	-6.21	112.25	119.70
43	D8	1	DT	P-O3'-C3'	-6.21	112.25	119.70
55	E9	6	DT	P-O3'-C3'	-6.21	112.25	119.70
71	G2	14	DT	P-O3'-C3'	-6.21	112.25	119.70
87	H8	16	DT	P-O3'-C3'	-6.21	112.25	119.70
109	J8	5	DT	P-O3'-C3'	-6.21	112.25	119.70
116	K3	11	DT	P-O3'-C3'	-6.21	112.25	119.70
123	KC	6	DT	P-O3'-C3'	-6.21	112.25	119.70
129	L6	10	DT	P-O3'-C3'	-6.21	112.25	119.70
189	R8	17	DT	P-O3'-C3'	-6.21	112.25	119.70
203	T2	19	DT	P-O3'-C3'	-6.21	112.25	119.70
212	U2	6	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	1237	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	3183	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	3195	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	3258	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	3483	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	3801	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	4815	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	5563	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	5835	DT	P-O3'-C3'	-6.21	112.25	119.70
20	B7	6	DT	P-O3'-C3'	-6.21	112.25	119.70
73	G5	17	DT	P-O3'-C3'	-6.21	112.25	119.70
73	G5	19	DA	OP2-P-O3'	6.21	118.85	105.20
78	GA	4	DT	P-O3'-C3'	-6.21	112.25	119.70
91	HD	7	DT	P-O3'-C3'	-6.21	112.25	119.70
109	J8	46	DA	OP2-P-O3'	6.21	118.85	105.20
141	M8	25	DT	P-O3'-C3'	-6.21	112.25	119.70
165	OD	25	DT	P-O3'-C3'	-6.21	112.25	119.70
173	PA	19	DT	P-O3'-C3'	-6.21	112.25	119.70
237	X7	22	DT	P-O3'-C3'	-6.21	112.25	119.70
11	AB	2	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	178	DT	P-O3'-C3'	-6.20	112.25	119.70
11	AB	392	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	1409	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	1412	DT	P-O3'-C3'	-6.20	112.25	119.70
11	AB	1708	DT	P-O3'-C3'	-6.20	112.25	119.70
11	AB	2111	DT	P-O3'-C3'	-6.20	112.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2670	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	3006	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	3312	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	3744	DT	P-O3'-C3'	-6.20	112.25	119.70
11	AB	3930	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	4392	DT	P-O3'-C3'	-6.20	112.25	119.70
11	AB	5164	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	5331	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	5711	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	5838	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	6007	DT	P-O3'-C3'	-6.20	112.25	119.70
11	AB	6237	DT	P-O3'-C3'	-6.20	112.25	119.70
11	AB	6427	DT	P-O3'-C3'	-6.20	112.25	119.70
11	AB	6701	DT	P-O3'-C3'	-6.20	112.25	119.70
21	B8	13	DT	P-O3'-C3'	-6.20	112.26	119.70
67	FA	25	DT	P-O3'-C3'	-6.20	112.26	119.70
102	ID	27	DT	P-O3'-C3'	-6.20	112.26	119.70
112	JC	15	DT	P-O3'-C3'	-6.20	112.26	119.70
125	L1	27	DA	OP2-P-O3'	6.20	118.85	105.20
156	O2	55	DA	OP2-P-O3'	6.20	118.85	105.20
192	RC	18	DT	P-O3'-C3'	-6.20	112.26	119.70
206	T7	26	DT	P-O3'-C3'	-6.20	112.26	119.70
206	T7	47	DT	P-O3'-C3'	-6.20	112.26	119.70
210	TC	11	DA	OP2-P-O3'	6.20	118.85	105.20
228	VC	37	DT	P-O3'-C3'	-6.20	112.26	119.70
1	A1	1	DT	P-O3'-C3'	-6.20	112.26	119.70
2	A2	29	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	1452	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	2287	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	2470	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	2630	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	4715	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	6924	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	7041	DT	P-O3'-C3'	-6.20	112.26	119.70
21	B8	24	DT	P-O3'-C3'	-6.20	112.26	119.70
93	I2	11	DT	P-O3'-C3'	-6.20	112.26	119.70
110	J9	5	DT	P-O3'-C3'	-6.20	112.26	119.70
130	L7	4	DT	P-O3'-C3'	-6.20	112.26	119.70
171	P8	19	DT	P-O3'-C3'	-6.20	112.26	119.70
211	TD	14	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	509	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	596	DT	P-O3'-C3'	-6.20	112.26	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	654	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	2199	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	4798	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	6500	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	6704	DT	P-O3'-C3'	-6.20	112.26	119.70
16	B3	20	DT	P-O3'-C3'	-6.20	112.26	119.70
19	B6	18	DT	P-O3'-C3'	-6.20	112.26	119.70
68	FC	15	DT	P-O3'-C3'	-6.20	112.26	119.70
70	G1	1	DT	P-O3'-C3'	-6.20	112.26	119.70
72	G3	5	DT	P-O3'-C3'	-6.20	112.26	119.70
105	J3	28	DT	P-O3'-C3'	-6.20	112.26	119.70
125	L1	43	DT	P-O3'-C3'	-6.20	112.26	119.70
162	O9	19	DT	P-O3'-C3'	-6.20	112.26	119.70
170	P7	8	DT	P-O3'-C3'	-6.20	112.26	119.70
170	P7	15	DT	P-O3'-C3'	-6.20	112.26	119.70
211	TD	19	DT	P-O3'-C3'	-6.20	112.26	119.70
211	TD	34	DT	P-O3'-C3'	-6.20	112.26	119.70
219	UC	19	DT	P-O3'-C3'	-6.20	112.26	119.70
228	VC	2	DT	P-O3'-C3'	-6.20	112.26	119.70
228	VC	27	DT	P-O3'-C3'	-6.20	112.26	119.70
1	A1	38	DT	P-O3'-C3'	-6.20	112.26	119.70
9	A9	16	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	501	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	668	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	732	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	1504	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	1528	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	1763	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	1985	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	2571	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	7162	DT	P-O3'-C3'	-6.20	112.26	119.70
40	D5	12	DT	P-O3'-C3'	-6.20	112.26	119.70
62	F5	22	DT	P-O3'-C3'	-6.20	112.26	119.70
73	G5	10	DT	P-O3'-C3'	-6.20	112.26	119.70
87	H8	7	DT	P-O3'-C3'	-6.20	112.26	119.70
100	IA	15	DT	P-O3'-C3'	-6.20	112.26	119.70
164	OC	27	DT	P-O3'-C3'	-6.20	112.26	119.70
200	SA	18	DT	P-O3'-C3'	-6.20	112.26	119.70
209	TA	35	DT	P-O3'-C3'	-6.20	112.26	119.70
212	U2	23	DT	P-O3'-C3'	-6.20	112.26	119.70
226	V9	33	DT	P-O3'-C3'	-6.20	112.26	119.70
228	VC	10	DT	P-O3'-C3'	-6.20	112.26	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1567	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	2369	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	3980	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	6372	DT	P-O3'-C3'	-6.20	112.26	119.70
50	E3	8	DT	P-O3'-C3'	-6.20	112.26	119.70
58	ED	27	DT	P-O3'-C3'	-6.20	112.26	119.70
69	FD	13	DT	P-O3'-C3'	-6.20	112.26	119.70
119	K7	30	DT	P-O3'-C3'	-6.20	112.26	119.70
176	Q2	17	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	599	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	1202	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	1687	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	2783	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	2939	DC	P-O3'-C3'	-6.20	112.27	119.70
11	AB	3060	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	3281	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	3321	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	3708	DT	P-O3'-C3'	-6.20	112.26	119.70
11	AB	5159	DC	P-O3'-C3'	-6.20	112.26	119.70
11	AB	5402	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	5618	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	5629	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	6294	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	6369	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	6480	DT	P-O3'-C3'	-6.20	112.27	119.70
11	AB	7222	DT	P-O3'-C3'	-6.20	112.27	119.70
49	E2	26	DT	P-O3'-C3'	-6.20	112.27	119.70
58	ED	5	DT	P-O3'-C3'	-6.20	112.27	119.70
82	H2	26	DT	P-O3'-C3'	-6.20	112.26	119.70
108	J7	44	DT	P-O3'-C3'	-6.20	112.27	119.70
125	L1	17	DT	P-O3'-C3'	-6.20	112.27	119.70
132	L9	3	DT	P-O3'-C3'	-6.20	112.27	119.70
138	M5	40	DT	P-O3'-C3'	-6.20	112.27	119.70
150	N7	16	DT	P-O3'-C3'	-6.20	112.27	119.70
152	N9	36	DT	P-O3'-C3'	-6.20	112.27	119.70
157	O3	16	DT	P-O3'-C3'	-6.20	112.27	119.70
158	O5	30	DT	P-O3'-C3'	-6.20	112.27	119.70
172	P9	6	DT	P-O3'-C3'	-6.20	112.27	119.70
189	R8	6	DT	P-O3'-C3'	-6.20	112.26	119.70
226	V9	9	DT	P-O3'-C3'	-6.20	112.27	119.70
227	VA	25	DT	P-O3'-C3'	-6.20	112.27	119.70
230	W3	26	DT	P-O3'-C3'	-6.20	112.27	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1996	DA	OP2-P-O3'	6.19	118.83	105.20
11	AB	5342	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	6234	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	6593	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	6783	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	7088	DT	P-O3'-C3'	-6.19	112.27	119.70
41	D6	31	DT	P-O3'-C3'	-6.19	112.27	119.70
62	F5	36	DT	P-O3'-C3'	-6.19	112.27	119.70
113	JD	20	DT	P-O3'-C3'	-6.19	112.27	119.70
173	PA	25	DT	P-O3'-C3'	-6.19	112.27	119.70
181	Q9	23	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	796	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	1946	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2126	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2162	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2240	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2247	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2282	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2561	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2704	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2850	DT	OP1-P-O3'	6.19	118.83	105.20
11	AB	3557	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	4677	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	5714	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	5999	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	6639	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	6668	DT	P-O3'-C3'	-6.19	112.27	119.70
16	B3	9	DT	P-O3'-C3'	-6.19	112.27	119.70
53	E7	6	DT	P-O3'-C3'	-6.19	112.27	119.70
64	F7	28	DT	P-O3'-C3'	-6.19	112.27	119.70
72	G3	16	DT	P-O3'-C3'	-6.19	112.27	119.70
105	J3	21	DT	P-O3'-C3'	-6.19	112.27	119.70
120	K8	12	DT	P-O3'-C3'	-6.19	112.27	119.70
142	M9	10	DT	P-O3'-C3'	-6.19	112.27	119.70
150	N7	1	DT	P-O3'-C3'	-6.19	112.27	119.70
152	N9	6	DT	P-O3'-C3'	-6.19	112.27	119.70
159	O6	17	DT	P-O3'-C3'	-6.19	112.27	119.70
178	Q5	33	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	291	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	1220	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	1609	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2069	DT	P-O3'-C3'	-6.19	112.27	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2323	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2457	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	3091	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	3339	DC	P-O3'-C3'	-6.19	112.27	119.70
11	AB	4102	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	4291	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	4353	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	5519	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	5803	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	6034	DT	P-O3'-C3'	-6.19	112.27	119.70
30	C6	18	DC	P-O3'-C3'	-6.19	112.27	119.70
88	H9	2	DT	P-O3'-C3'	-6.19	112.27	119.70
132	L9	1	DT	P-O3'-C3'	-6.19	112.27	119.70
135	LD	12	DC	P-O3'-C3'	-6.19	112.27	119.70
141	M8	12	DT	P-O3'-C3'	-6.19	112.27	119.70
161	O8	7	DT	P-O3'-C3'	-6.19	112.27	119.70
191	RA	19	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	239	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	1595	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	1817	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	2421	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	5495	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	6108	DT	P-O3'-C3'	-6.19	112.27	119.70
84	H5	16	DT	P-O3'-C3'	-6.19	112.27	119.70
104	J2	41	DT	P-O3'-C3'	-6.19	112.27	119.70
121	K9	14	DT	P-O3'-C3'	-6.19	112.27	119.70
190	R9	21	DT	P-O3'-C3'	-6.19	112.27	119.70
221	V2	23	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	752	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	1013	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	1381	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	1783	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	1879	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	2101	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	3255	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	5210	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	5438	DT	P-O3'-C3'	-6.19	112.27	119.70
11	AB	5543	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	5915	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	6266	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	7005	DT	P-O3'-C3'	-6.19	112.27	119.70
31	C7	24	DT	P-O3'-C3'	-6.19	112.27	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	CA	6	DT	P-O3'-C3'	-6.19	112.28	119.70
36	CD	20	DT	P-O3'-C3'	-6.19	112.28	119.70
43	D8	12	DT	P-O3'-C3'	-6.19	112.28	119.70
46	DC	10	DT	P-O3'-C3'	-6.19	112.28	119.70
58	ED	41	DT	P-O3'-C3'	-6.19	112.27	119.70
74	G6	25	DT	P-O3'-C3'	-6.19	112.27	119.70
75	G7	12	DT	P-O3'-C3'	-6.19	112.28	119.70
102	ID	10	DT	P-O3'-C3'	-6.19	112.28	119.70
122	KA	20	DT	P-O3'-C3'	-6.19	112.28	119.70
130	L7	51	DT	P-O3'-C3'	-6.19	112.27	119.70
131	L8	14	DT	P-O3'-C3'	-6.19	112.28	119.70
132	L9	8	DT	P-O3'-C3'	-6.19	112.27	119.70
158	O5	16	DT	P-O3'-C3'	-6.19	112.28	119.70
166	P2	7	DT	P-O3'-C3'	-6.19	112.27	119.70
172	P9	21	DC	P-O3'-C3'	-6.19	112.28	119.70
198	S8	11	DT	P-O3'-C3'	-6.19	112.28	119.70
202	SD	29	DT	P-O3'-C3'	-6.19	112.28	119.70
225	V8	18	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	192	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	2006	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	5432	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	6232	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	6321	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	6920	DT	P-O3'-C3'	-6.19	112.28	119.70
33	C9	21	DT	P-O3'-C3'	-6.19	112.28	119.70
72	G3	24	DC	P-O3'-C3'	-6.19	112.28	119.70
105	J3	13	DT	P-O3'-C3'	-6.19	112.28	119.70
138	M5	26	DT	P-O3'-C3'	-6.19	112.28	119.70
211	TD	7	DT	P-O3'-C3'	-6.19	112.28	119.70
11	AB	656	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	1148	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	1289	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	1359	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	1868	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2958	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	3383	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	3612	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	3783	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	3831	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	3996	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	4245	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	4415	DT	P-O3'-C3'	-6.18	112.28	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	B2	12	DT	P-O3'-C3'	-6.18	112.28	119.70
40	D5	9	DT	P-O3'-C3'	-6.18	112.28	119.70
47	DD	22	DT	P-O3'-C3'	-6.18	112.28	119.70
48	E1	27	DT	P-O3'-C3'	-6.18	112.28	119.70
49	E2	35	DT	P-O3'-C3'	-6.18	112.28	119.70
50	E3	12	DT	P-O3'-C3'	-6.18	112.28	119.70
67	FA	16	DT	P-O3'-C3'	-6.18	112.28	119.70
93	I2	33	DT	P-O3'-C3'	-6.18	112.28	119.70
113	JD	16	DT	P-O3'-C3'	-6.18	112.28	119.70
155	ND	1	DT	P-O3'-C3'	-6.18	112.28	119.70
177	Q3	6	DT	P-O3'-C3'	-6.18	112.28	119.70
177	Q3	25	DT	P-O3'-C3'	-6.18	112.28	119.70
198	S8	41	DT	P-O3'-C3'	-6.18	112.28	119.70
203	T2	15	DT	P-O3'-C3'	-6.18	112.28	119.70
207	T8	10	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	95	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	254	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	555	DC	P-O3'-C3'	-6.18	112.28	119.70
11	AB	632	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	696	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	1795	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2303	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2597	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2605	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	3036	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	3849	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	5244	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	5444	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	6054	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	6588	DT	P-O3'-C3'	-6.18	112.28	119.70
19	B6	10	DT	P-O3'-C3'	-6.18	112.28	119.70
32	C8	2	DT	P-O3'-C3'	-6.18	112.28	119.70
43	D8	3	DT	P-O3'-C3'	-6.18	112.28	119.70
44	D9	11	DT	P-O3'-C3'	-6.18	112.28	119.70
68	FC	12	DT	P-O3'-C3'	-6.18	112.28	119.70
69	FD	27	DT	P-O3'-C3'	-6.18	112.28	119.70
96	I6	13	DT	P-O3'-C3'	-6.18	112.28	119.70
111	JA	2	DT	P-O3'-C3'	-6.18	112.28	119.70
121	K9	22	DT	P-O3'-C3'	-6.18	112.28	119.70
230	W3	22	DT	P-O3'-C3'	-6.18	112.28	119.70
233	W8	23	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	1537	DT	P-O3'-C3'	-6.18	112.28	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6095	DT	P-O3'-C3'	-6.18	112.28	119.70
57	EC	17	DT	P-O3'-C3'	-6.18	112.28	119.70
77	G9	3	DT	P-O3'-C3'	-6.18	112.28	119.70
185	R2	2	DT	P-O3'-C3'	-6.18	112.28	119.70
230	W3	2	DT	P-O3'-C3'	-6.18	112.28	119.70
6	A6	25	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	55	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	334	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	981	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2087	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2327	DC	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2431	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2503	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2567	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2770	DC	P-O3'-C3'	-6.18	112.28	119.70
11	AB	2938	DC	P-O3'-C3'	-6.18	112.28	119.70
11	AB	3336	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	3537	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	3852	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	4402	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	4839	DC	P-O3'-C3'	-6.18	112.28	119.70
11	AB	6351	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	6471	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	6803	DT	P-O3'-C3'	-6.18	112.28	119.70
11	AB	7063	DT	P-O3'-C3'	-6.18	112.28	119.70
22	B9	48	DT	P-O3'-C3'	-6.18	112.28	119.70
51	E5	17	DT	P-O3'-C3'	-6.18	112.28	119.70
66	F9	21	DT	P-O3'-C3'	-6.18	112.28	119.70
88	H9	7	DT	P-O3'-C3'	-6.18	112.28	119.70
109	J8	36	DT	P-O3'-C3'	-6.18	112.28	119.70
115	K2	18	DC	P-O3'-C3'	-6.18	112.28	119.70
126	L2	53	DT	P-O3'-C3'	-6.18	112.29	119.70
152	N9	50	DT	P-O3'-C3'	-6.18	112.28	119.70
197	S7	20	DC	P-O3'-C3'	-6.18	112.28	119.70
11	AB	1995	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	2227	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	6380	DC	P-O3'-C3'	-6.18	112.29	119.70
11	AB	6575	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	471	DC	P-O3'-C3'	-6.18	112.29	119.70
11	AB	1377	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	1402	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	2376	DT	P-O3'-C3'	-6.18	112.29	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2439	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	3506	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	3572	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	3798	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	5370	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	5414	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	6958	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	7092	DT	P-O3'-C3'	-6.18	112.29	119.70
69	FD	10	DT	P-O3'-C3'	-6.18	112.29	119.70
110	J9	8	DT	P-O3'-C3'	-6.18	112.29	119.70
168	P5	16	DT	P-O3'-C3'	-6.18	112.29	119.70
178	Q5	13	DT	P-O3'-C3'	-6.18	112.29	119.70
179	Q7	23	DC	P-O3'-C3'	-6.18	112.29	119.70
208	T9	10	DT	P-O3'-C3'	-6.18	112.29	119.70
11	AB	11	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	368	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	1513	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	1533	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	2708	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	2902	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	3227	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	3264	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	5291	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	6172	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	6456	DT	P-O3'-C3'	-6.17	112.29	119.70
14	B1	12	DT	P-O3'-C3'	-6.17	112.29	119.70
41	D6	41	DT	P-O3'-C3'	-6.17	112.29	119.70
97	I7	15	DT	P-O3'-C3'	-6.17	112.29	119.70
109	J8	51	DT	P-O3'-C3'	-6.17	112.29	119.70
138	M5	24	DT	P-O3'-C3'	-6.17	112.29	119.70
182	QA	12	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	363	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	537	DC	P-O3'-C3'	-6.17	112.29	119.70
11	AB	1955	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	1988	DT	OP1-P-O3'	6.17	118.78	105.20
11	AB	3786	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	5550	DT	P-O3'-C3'	-6.17	112.29	119.70
35	CC	11	DC	P-O3'-C3'	-6.17	112.29	119.70
93	I2	48	DC	P-O3'-C3'	-6.17	112.29	119.70
149	N6	29	DT	P-O3'-C3'	-6.17	112.29	119.70
219	UC	21	DT	P-O3'-C3'	-6.17	112.29	119.70
1	A1	54	DT	P-O3'-C3'	-6.17	112.29	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	222	DT	OP1-P-O3'	6.17	118.78	105.20
11	AB	226	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	560	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	684	DC	P-O3'-C3'	-6.17	112.30	119.70
11	AB	1097	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	1564	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	1939	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	2639	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	2965	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	2993	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	3041	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	3882	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	4014	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	4575	DC	P-O3'-C3'	-6.17	112.30	119.70
11	AB	5089	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	5747	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	6047	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	6843	DT	P-O3'-C3'	-6.17	112.29	119.70
19	B6	4	DT	P-O3'-C3'	-6.17	112.30	119.70
25	BD	18	DT	P-O3'-C3'	-6.17	112.30	119.70
31	C7	8	DT	P-O3'-C3'	-6.17	112.29	119.70
37	D1	25	DC	P-O3'-C3'	-6.17	112.29	119.70
43	D8	26	DC	P-O3'-C3'	-6.17	112.29	119.70
52	E6	34	DC	P-O3'-C3'	-6.17	112.29	119.70
59	F1	8	DC	P-O3'-C3'	-6.17	112.29	119.70
62	F5	40	DT	P-O3'-C3'	-6.17	112.29	119.70
104	J2	4	DC	P-O3'-C3'	-6.17	112.30	119.70
106	J5	15	DT	P-O3'-C3'	-6.17	112.30	119.70
117	K5	19	DC	P-O3'-C3'	-6.17	112.29	119.70
122	KA	47	DT	P-O3'-C3'	-6.17	112.29	119.70
137	M3	22	DT	P-O3'-C3'	-6.17	112.29	119.70
152	N9	13	DT	P-O3'-C3'	-6.17	112.29	119.70
156	O2	43	DT	P-O3'-C3'	-6.17	112.29	119.70
158	O5	44	DT	P-O3'-C3'	-6.17	112.30	119.70
165	OD	18	DT	P-O3'-C3'	-6.17	112.29	119.70
166	P2	29	DC	P-O3'-C3'	-6.17	112.30	119.70
182	QA	27	DT	P-O3'-C3'	-6.17	112.29	119.70
11	AB	1698	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	1973	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	2357	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	4974	DC	P-O3'-C3'	-6.17	112.30	119.70
11	AB	5820	DT	P-O3'-C3'	-6.17	112.30	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BC	30	DC	P-O3'-C3'	-6.17	112.30	119.70
117	K5	6	DT	P-O3'-C3'	-6.17	112.30	119.70
124	KD	10	DT	P-O3'-C3'	-6.17	112.30	119.70
180	Q8	12	DC	P-O3'-C3'	-6.17	112.30	119.70
232	W7	14	DT	P-O3'-C3'	-6.17	112.30	119.70
5	A5	4	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	380	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	5186	DC	P-O3'-C3'	-6.17	112.30	119.70
11	AB	6325	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	6680	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	7079	DT	P-O3'-C3'	-6.17	112.30	119.70
20	B7	10	DC	P-O3'-C3'	-6.17	112.30	119.70
45	DA	15	DC	P-O3'-C3'	-6.17	112.30	119.70
54	E8	34	DC	P-O3'-C3'	-6.17	112.30	119.70
75	G7	27	DC	P-O3'-C3'	-6.17	112.30	119.70
99	I9	1	DT	P-O3'-C3'	-6.17	112.30	119.70
103	J1	2	DC	P-O3'-C3'	-6.17	112.30	119.70
143	MA	26	DC	P-O3'-C3'	-6.17	112.30	119.70
150	N7	11	DC	P-O3'-C3'	-6.17	112.30	119.70
190	R9	24	DT	P-O3'-C3'	-6.17	112.30	119.70
190	R9	38	DT	P-O3'-C3'	-6.17	112.30	119.70
215	U7	9	DT	P-O3'-C3'	-6.17	112.30	119.70
221	V2	19	DC	P-O3'-C3'	-6.17	112.30	119.70
227	VA	28	DT	P-O3'-C3'	-6.17	112.30	119.70
5	A5	17	DT	P-O3'-C3'	-6.17	112.30	119.70
5	A5	21	DT	P-O3'-C3'	-6.17	112.30	119.70
6	A6	16	DC	P-O3'-C3'	-6.17	112.30	119.70
11	AB	2805	DT	OP1-P-O3'	6.17	118.77	105.20
11	AB	4137	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	4279	DT	OP1-P-O3'	6.17	118.77	105.20
11	AB	5308	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	5360	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	5523	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	5724	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	6026	DT	P-O3'-C3'	-6.17	112.30	119.70
13	AD	20	DT	P-O3'-C3'	-6.17	112.30	119.70
47	DD	36	DT	P-O3'-C3'	-6.17	112.30	119.70
70	G1	17	DT	P-O3'-C3'	-6.17	112.30	119.70
79	GC	24	DC	P-O3'-C3'	-6.17	112.30	119.70
139	M6	1	DC	P-O3'-C3'	-6.17	112.30	119.70
145	MD	35	DT	P-O3'-C3'	-6.17	112.30	119.70
195	S3	20	DT	P-O3'-C3'	-6.17	112.30	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
215	U7	4	DT	P-O3'-C3'	-6.17	112.30	119.70
237	X7	4	DT	P-O3'-C3'	-6.17	112.30	119.70
8	A8	18	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	1576	DT	P-O3'-C3'	-6.17	112.30	119.70
11	AB	1684	DT	OP1-P-O3'	6.17	118.76	105.20
11	AB	2192	DT	OP1-P-O3'	6.17	118.76	105.20
11	AB	3489	DC	P-O3'-C3'	-6.17	112.30	119.70
11	AB	6509	DT	P-O3'-C3'	-6.17	112.30	119.70
80	GD	17	DT	P-O3'-C3'	-6.17	112.30	119.70
108	J7	37	DT	P-O3'-C3'	-6.17	112.30	119.70
188	R7	27	DT	OP1-P-O3'	6.17	118.76	105.20
8	A8	8	DT	P-O3'-C3'	-6.16	112.30	119.70
11	AB	564	DC	P-O3'-C3'	-6.16	112.30	119.70
11	AB	1941	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	2245	DT	P-O3'-C3'	-6.16	112.30	119.70
11	AB	3135	DT	P-O3'-C3'	-6.16	112.30	119.70
11	AB	3486	DT	OP1-P-O3'	6.16	118.76	105.20
11	AB	3873	DT	P-O3'-C3'	-6.16	112.30	119.70
11	AB	4185	DC	P-O3'-C3'	-6.16	112.31	119.70
37	D1	24	DC	P-O3'-C3'	-6.16	112.30	119.70
82	H2	19	DC	P-O3'-C3'	-6.16	112.30	119.70
112	JC	22	DT	P-O3'-C3'	-6.16	112.30	119.70
149	N6	1	DT	OP1-P-O3'	6.16	118.76	105.20
150	N7	18	DC	P-O3'-C3'	-6.16	112.30	119.70
190	R9	34	DT	P-O3'-C3'	-6.16	112.31	119.70
197	S7	12	DC	P-O3'-C3'	-6.16	112.30	119.70
214	U5	5	DC	P-O3'-C3'	-6.16	112.30	119.70
223	V5	1	DC	P-O3'-C3'	-6.16	112.30	119.70
229	VD	20	DT	P-O3'-C3'	-6.16	112.30	119.70
3	A3	4	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	495	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	2274	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	4646	DA	OP2-P-O3'	6.16	118.76	105.20
37	D1	33	DC	P-O3'-C3'	-6.16	112.31	119.70
110	J9	16	DC	P-O3'-C3'	-6.16	112.31	119.70
123	KC	15	DT	OP1-P-O3'	6.16	118.76	105.20
125	L1	31	DT	P-O3'-C3'	-6.16	112.31	119.70
158	O5	36	DC	P-O3'-C3'	-6.16	112.31	119.70
228	VC	8	DT	OP1-P-O3'	6.16	118.76	105.20
7	A7	29	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	2195	DT	OP1-P-O3'	6.16	118.75	105.20
11	AB	3963	DC	P-O3'-C3'	-6.16	112.31	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3976	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	4534	DT	OP1-P-O3'	6.16	118.75	105.20
11	AB	6558	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	6605	DC	P-O3'-C3'	-6.16	112.31	119.70
17	B4	21	DT	OP1-P-O3'	6.16	118.75	105.20
24	BC	9	DC	P-O3'-C3'	-6.16	112.31	119.70
98	I8	27	DT	P-O3'-C3'	-6.16	112.31	119.70
117	K5	34	DT	P-O3'-C3'	-6.16	112.31	119.70
152	N9	11	DT	OP1-P-O3'	6.16	118.75	105.20
199	S9	11	DC	P-O3'-C3'	-6.16	112.31	119.70
204	T3	16	DT	OP1-P-O3'	6.16	118.75	105.20
219	UC	24	DC	P-O3'-C3'	-6.16	112.31	119.70
225	V8	16	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	396	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	489	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	554	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	566	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	854	DT	OP1-P-O3'	6.16	118.75	105.20
11	AB	1657	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	1916	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	2384	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	2801	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	2862	DT	OP1-P-O3'	6.16	118.75	105.20
11	AB	3740	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	4120	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	4567	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	4597	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	4866	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	5298	DT	OP1-P-O3'	6.16	118.75	105.20
11	AB	5797	DT	OP1-P-O3'	6.16	118.75	105.20
11	AB	5799	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	6847	DC	P-O3'-C3'	-6.16	112.31	119.70
24	BC	33	DT	OP1-P-O3'	6.16	118.75	105.20
24	BC	35	DT	P-O3'-C3'	-6.16	112.31	119.70
37	D1	9	DC	P-O3'-C3'	-6.16	112.31	119.70
95	I5	26	DT	P-O3'-C3'	-6.16	112.31	119.70
115	K2	14	DT	OP1-P-O3'	6.16	118.75	105.20
151	N8	16	DC	P-O3'-C3'	-6.16	112.31	119.70
167	P3	22	DC	P-O3'-C3'	-6.16	112.31	119.70
173	PA	9	DC	P-O3'-C3'	-6.16	112.31	119.70
181	Q9	37	DC	P-O3'-C3'	-6.16	112.31	119.70
191	RA	12	DC	P-O3'-C3'	-6.16	112.31	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3127	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	4328	DT	OP1-P-O3'	6.16	118.75	105.20
39	D3	33	DC	P-O3'-C3'	-6.16	112.31	119.70
138	M5	1	DC	P-O3'-C3'	-6.16	112.31	119.70
143	MA	38	DC	P-O3'-C3'	-6.16	112.31	119.70
215	U7	18	DC	P-O3'-C3'	-6.16	112.31	119.70
226	V9	30	DC	P-O3'-C3'	-6.16	112.31	119.70
229	VD	3	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	1296	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	1673	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	2825	DT	OP1-P-O3'	6.16	118.74	105.20
11	AB	3605	DT	OP1-P-O3'	6.16	118.74	105.20
11	AB	4598	DC	P-O3'-C3'	-6.16	112.31	119.70
11	AB	4682	DT	OP1-P-O3'	6.16	118.74	105.20
11	AB	5356	DT	P-O3'-C3'	-6.16	112.31	119.70
11	AB	6991	DT	OP1-P-O3'	6.16	118.74	105.20
11	AB	7036	DT	P-O3'-C3'	-6.16	112.31	119.70
53	E7	3	DT	P-O3'-C3'	-6.16	112.31	119.70
85	H6	9	DC	P-O3'-C3'	-6.16	112.31	119.70
99	I9	8	DT	P-O3'-C3'	-6.16	112.31	119.70
113	JD	31	DC	P-O3'-C3'	-6.16	112.31	119.70
162	O9	17	DC	P-O3'-C3'	-6.16	112.31	119.70
196	S5	25	DT	P-O3'-C3'	-6.16	112.31	119.70
200	SA	14	DC	P-O3'-C3'	-6.16	112.31	119.70
207	T8	18	DT	OP1-P-O3'	6.16	118.74	105.20
227	VA	16	DC	P-O3'-C3'	-6.16	112.31	119.70
231	W5	12	DT	OP1-P-O3'	6.16	118.74	105.20
4	A4	20	DT	P-O3'-C3'	-6.15	112.31	119.70
11	AB	4093	DT	OP1-P-O3'	6.15	118.74	105.20
11	AB	4163	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	4465	DT	OP1-P-O3'	6.15	118.74	105.20
11	AB	4564	DC	P-O3'-C3'	-6.15	112.31	119.70
11	AB	5677	DC	P-O3'-C3'	-6.15	112.31	119.70
11	AB	5868	DC	P-O3'-C3'	-6.15	112.31	119.70
11	AB	6176	DT	OP1-P-O3'	6.15	118.74	105.20
11	AB	6254	DT	OP1-P-O3'	6.15	118.74	105.20
37	D1	32	DC	P-O3'-C3'	-6.15	112.32	119.70
61	F3	20	DC	P-O3'-C3'	-6.15	112.32	119.70
117	K5	28	DC	P-O3'-C3'	-6.15	112.31	119.70
161	O8	16	DC	P-O3'-C3'	-6.15	112.32	119.70
213	U3	17	DT	P-O3'-C3'	-6.15	112.31	119.70
228	VC	18	DC	P-O3'-C3'	-6.15	112.31	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A3	18	DT	P-O3'-C3'	-6.15	112.32	119.70
11	AB	206	DT	OP1-P-O3'	6.15	118.74	105.20
11	AB	395	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	578	DT	OP1-P-O3'	6.15	118.74	105.20
11	AB	711	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	1298	DT	OP1-P-O3'	6.15	118.74	105.20
11	AB	2000	DT	OP1-P-O3'	6.15	118.74	105.20
11	AB	2094	DT	OP1-P-O3'	6.15	118.74	105.20
11	AB	2798	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	2811	DT	P-O3'-C3'	-6.15	112.32	119.70
11	AB	3052	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	3704	DT	P-O3'-C3'	-6.15	112.32	119.70
11	AB	3855	DT	P-O3'-C3'	-6.15	112.32	119.70
11	AB	4148	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	4260	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	4949	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	5784	DT	P-O3'-C3'	-6.15	112.32	119.70
11	AB	6003	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	6886	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	7039	DT	OP1-P-O3'	6.15	118.73	105.20
29	C5	24	DT	P-O3'-C3'	-6.15	112.32	119.70
32	C8	22	DC	P-O3'-C3'	-6.15	112.32	119.70
52	E6	31	DC	P-O3'-C3'	-6.15	112.32	119.70
60	F2	6	DC	P-O3'-C3'	-6.15	112.32	119.70
61	F3	5	DT	OP1-P-O3'	6.15	118.73	105.20
85	H6	22	DC	P-O3'-C3'	-6.15	112.32	119.70
99	I9	13	DT	OP1-P-O3'	6.15	118.74	105.20
117	K5	21	DC	P-O3'-C3'	-6.15	112.32	119.70
125	L1	36	DC	P-O3'-C3'	-6.15	112.32	119.70
149	N6	11	DC	P-O3'-C3'	-6.15	112.32	119.70
168	P5	4	DC	P-O3'-C3'	-6.15	112.32	119.70
198	S8	18	DC	P-O3'-C3'	-6.15	112.32	119.70
226	V9	27	DT	OP1-P-O3'	6.15	118.73	105.20
236	X5	6	DC	P-O3'-C3'	-6.15	112.32	119.70
5	A5	31	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	977	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	1658	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	1720	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	2066	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	2082	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	2229	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	4549	DT	OP1-P-O3'	6.15	118.73	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4606	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	5085	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	5801	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	6101	DT	P-O3'-C3'	-6.15	112.32	119.70
11	AB	6674	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	6694	DC	P-O3'-C3'	-6.15	112.32	119.70
30	C6	11	DC	P-O3'-C3'	-6.15	112.32	119.70
36	CD	18	DT	OP1-P-O3'	6.15	118.73	105.20
42	D7	20	DC	P-O3'-C3'	-6.15	112.32	119.70
55	E9	28	DT	OP1-P-O3'	6.15	118.73	105.20
131	L8	7	DC	P-O3'-C3'	-6.15	112.32	119.70
133	LA	1	DT	OP1-P-O3'	6.15	118.73	105.20
139	M6	17	DC	P-O3'-C3'	-6.15	112.32	119.70
141	M8	17	DC	P-O3'-C3'	-6.15	112.32	119.70
166	P2	32	DC	P-O3'-C3'	-6.15	112.32	119.70
204	T3	19	DT	OP1-P-O3'	6.15	118.73	105.20
204	T3	34	DT	OP1-P-O3'	6.15	118.73	105.20
213	U3	15	DT	OP1-P-O3'	6.15	118.73	105.20
217	U9	27	DT	OP1-P-O3'	6.15	118.73	105.20
6	A6	29	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	680	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	834	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	2336	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	2828	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	3174	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	5538	DT	P-O3'-C3'	-6.15	112.32	119.70
53	E7	10	DT	OP1-P-O3'	6.15	118.73	105.20
86	H7	10	DT	OP1-P-O3'	6.15	118.73	105.20
98	I8	43	DT	OP1-P-O3'	6.15	118.73	105.20
3	A3	7	DC	P-O3'-C3'	-6.15	112.32	119.70
3	A3	8	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	665	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	683	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	806	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	1375	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	1379	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	1405	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	1676	DT	OP1-P-O3'	6.15	118.73	105.20
11	AB	2054	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	2882	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	3166	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	3765	DT	OP1-P-O3'	6.15	118.72	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3773	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	4390	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	4539	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	4568	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	4936	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	5227	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	5266	DT	P-O3'-C3'	-6.15	112.32	119.70
11	AB	5463	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	5595	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	5849	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	5991	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	6117	DC	P-O3'-C3'	-6.15	112.32	119.70
11	AB	6504	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	6567	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	7082	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	7146	DC	P-O3'-C3'	-6.15	112.32	119.70
36	CD	11	DC	P-O3'-C3'	-6.15	112.32	119.70
48	E1	24	DC	P-O3'-C3'	-6.15	112.32	119.70
104	J2	20	DT	OP1-P-O3'	6.15	118.73	105.20
106	J5	31	DC	P-O3'-C3'	-6.15	112.32	119.70
112	JC	5	DC	P-O3'-C3'	-6.15	112.32	119.70
126	L2	26	DC	P-O3'-C3'	-6.15	112.32	119.70
156	O2	25	DT	OP1-P-O3'	6.15	118.72	105.20
162	O9	7	DC	P-O3'-C3'	-6.15	112.32	119.70
167	P3	32	DC	P-O3'-C3'	-6.15	112.32	119.70
206	T7	14	DT	OP1-P-O3'	6.15	118.72	105.20
8	A8	27	DT	P-O3'-C3'	-6.15	112.32	119.70
11	AB	734	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	851	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	935	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	1142	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	1838	DT	P-O3'-C3'	-6.15	112.33	119.70
11	AB	1850	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	2427	DT	P-O3'-C3'	-6.15	112.33	119.70
11	AB	2676	DT	P-O3'-C3'	-6.15	112.32	119.70
11	AB	2678	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	3132	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	3269	DC	P-O3'-C3'	-6.15	112.33	119.70
11	AB	3582	DT	P-O3'-C3'	-6.15	112.33	119.70
11	AB	4116	DC	P-O3'-C3'	-6.15	112.33	119.70
11	AB	4126	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	4258	DC	P-O3'-C3'	-6.15	112.33	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6074	DC	P-O3'-C3'	-6.15	112.33	119.70
11	AB	6649	DT	P-O3'-C3'	-6.15	112.33	119.70
11	AB	6812	DT	OP1-P-O3'	6.15	118.72	105.20
11	AB	7071	DT	OP1-P-O3'	6.15	118.72	105.20
46	DC	15	DT	OP1-P-O3'	6.15	118.72	105.20
104	J2	29	DC	P-O3'-C3'	-6.15	112.32	119.70
117	K5	16	DT	OP1-P-O3'	6.15	118.72	105.20
119	K7	38	DT	OP1-P-O3'	6.15	118.72	105.20
120	K8	14	DC	P-O3'-C3'	-6.15	112.32	119.70
134	LC	21	DC	P-O3'-C3'	-6.15	112.33	119.70
238	X9	35	DC	P-O3'-C3'	-6.15	112.33	119.70
7	A7	10	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	971	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	1123	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	1130	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	1540	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	1802	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	1892	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	2090	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	2105	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	2280	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	2328	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	2765	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	3012	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	3021	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	3056	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	3150	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	3153	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	3992	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	5182	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	5303	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	5582	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	6564	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	7165	DC	P-O3'-C3'	-6.14	112.33	119.70
52	E6	17	DC	P-O3'-C3'	-6.14	112.33	119.70
58	ED	11	DC	P-O3'-C3'	-6.14	112.33	119.70
59	F1	7	DC	P-O3'-C3'	-6.14	112.33	119.70
65	F8	9	DC	P-O3'-C3'	-6.14	112.33	119.70
84	H5	34	DC	P-O3'-C3'	-6.14	112.33	119.70
85	H6	23	DC	P-O3'-C3'	-6.14	112.33	119.70
118	K6	15	DC	P-O3'-C3'	-6.14	112.33	119.70
128	L5	20	DC	P-O3'-C3'	-6.14	112.33	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
163	OA	15	DT	P-O3'-C3'	-6.14	112.33	119.70
166	P2	30	DC	P-O3'-C3'	-6.14	112.33	119.70
180	Q8	23	DT	OP1-P-O3'	6.14	118.72	105.20
215	U7	13	DT	OP1-P-O3'	6.14	118.72	105.20
223	V5	35	DT	P-O3'-C3'	-6.14	112.33	119.70
8	A8	23	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	1151	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	1846	DT	P-O3'-C3'	-6.14	112.33	119.70
11	AB	2030	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	2202	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	2417	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	2924	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	3288	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	4052	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	4240	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	4924	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	5371	DA	OP2-P-O3'	6.14	118.72	105.20
11	AB	5387	DT	OP1-P-O3'	6.14	118.72	105.20
11	AB	6216	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	6415	DT	P-O3'-C3'	-6.14	112.33	119.70
11	AB	6498	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	7172	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	7236	DC	P-O3'-C3'	-6.14	112.33	119.70
23	BA	29	DT	OP1-P-O3'	6.14	118.71	105.20
27	C2	11	DC	P-O3'-C3'	-6.14	112.33	119.70
41	D6	34	DT	OP1-P-O3'	6.14	118.72	105.20
45	DA	10	DT	OP1-P-O3'	6.14	118.71	105.20
84	H5	8	DT	OP1-P-O3'	6.14	118.71	105.20
86	H7	22	DC	P-O3'-C3'	-6.14	112.33	119.70
101	IC	24	DT	OP1-P-O3'	6.14	118.71	105.20
108	J7	29	DT	OP1-P-O3'	6.14	118.72	105.20
114	K1	9	DT	OP1-P-O3'	6.14	118.71	105.20
117	K5	47	DC	P-O3'-C3'	-6.14	112.33	119.70
121	K9	19	DT	OP1-P-O3'	6.14	118.72	105.20
122	KA	50	DT	P-O3'-C3'	-6.14	112.33	119.70
147	N3	23	DC	P-O3'-C3'	-6.14	112.33	119.70
152	N9	40	DT	OP1-P-O3'	6.14	118.71	105.20
166	P2	5	DT	OP1-P-O3'	6.14	118.71	105.20
172	P9	25	DC	P-O3'-C3'	-6.14	112.33	119.70
180	Q8	11	DC	P-O3'-C3'	-6.14	112.33	119.70
211	TD	22	DT	OP1-P-O3'	6.14	118.71	105.20
222	V3	23	DT	OP1-P-O3'	6.14	118.71	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
238	X9	1	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	215	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	389	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	2212	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	2579	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	2985	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	3447	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	3712	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	3763	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	4008	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	4095	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	4167	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	4231	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	4724	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	4817	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	5817	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	6134	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	6379	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	6631	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	7100	DC	P-O3'-C3'	-6.14	112.33	119.70
13	AD	42	DT	OP1-P-O3'	6.14	118.71	105.20
32	C8	26	DC	P-O3'-C3'	-6.14	112.33	119.70
52	E6	23	DC	P-O3'-C3'	-6.14	112.33	119.70
55	E9	33	DT	P-O3'-C3'	-6.14	112.33	119.70
74	G6	12	DC	P-O3'-C3'	-6.14	112.33	119.70
77	G9	11	DC	P-O3'-C3'	-6.14	112.33	119.70
77	G9	16	DT	OP1-P-O3'	6.14	118.71	105.20
105	J3	30	DC	P-O3'-C3'	-6.14	112.33	119.70
138	M5	36	DC	P-O3'-C3'	-6.14	112.33	119.70
154	NC	20	DT	OP1-P-O3'	6.14	118.71	105.20
187	R5	5	DC	P-O3'-C3'	-6.14	112.33	119.70
189	R8	37	DC	P-O3'-C3'	-6.14	112.33	119.70
197	S7	4	DC	P-O3'-C3'	-6.14	112.33	119.70
215	U7	20	DT	OP1-P-O3'	6.14	118.71	105.20
217	U9	8	DC	P-O3'-C3'	-6.14	112.33	119.70
230	W3	8	DT	OP1-P-O3'	6.14	118.71	105.20
230	W3	16	DC	P-O3'-C3'	-6.14	112.33	119.70
2	A2	12	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	174	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	1551	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	1696	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	1970	DT	OP1-P-O3'	6.14	118.71	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2354	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	2488	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	2961	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	3343	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	3843	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	4162	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	4794	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	4908	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	5610	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	5781	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	5931	DT	P-O3'-C3'	-6.14	112.33	119.70
11	AB	6317	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	6420	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	6745	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	6809	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	6872	DT	OP1-P-O3'	6.14	118.71	105.20
19	B6	8	DT	OP1-P-O3'	6.14	118.71	105.20
44	D9	6	DT	OP1-P-O3'	6.14	118.71	105.20
57	EC	8	DT	OP1-P-O3'	6.14	118.71	105.20
59	F1	10	DC	P-O3'-C3'	-6.14	112.33	119.70
64	F7	8	DT	P-O3'-C3'	-6.14	112.33	119.70
84	H5	22	DC	P-O3'-C3'	-6.14	112.33	119.70
88	H9	9	DT	OP1-P-O3'	6.14	118.71	105.20
96	I6	2	DT	OP1-P-O3'	6.14	118.71	105.20
128	L5	9	DT	OP1-P-O3'	6.14	118.71	105.20
141	M8	18	DC	P-O3'-C3'	-6.14	112.33	119.70
142	M9	14	DT	P-O3'-C3'	-6.14	112.33	119.70
143	MA	33	DT	OP1-P-O3'	6.14	118.71	105.20
145	MD	41	DC	P-O3'-C3'	-6.14	112.33	119.70
147	N3	17	DC	P-O3'-C3'	-6.14	112.33	119.70
158	O5	19	DC	P-O3'-C3'	-6.14	112.33	119.70
222	V3	20	DT	OP1-P-O3'	6.14	118.71	105.20
11	AB	1145	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	2408	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	3607	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	4429	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	4477	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	4898	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	6261	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	6344	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	7179	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	7192	DT	OP1-P-O3'	6.14	118.70	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	C5	2	DT	OP1-P-O3'	6.14	118.70	105.20
29	C5	37	DT	P-O3'-C3'	-6.14	112.33	119.70
41	D6	17	DT	OP1-P-O3'	6.14	118.70	105.20
84	H5	35	DC	P-O3'-C3'	-6.14	112.33	119.70
106	J5	11	DT	OP1-P-O3'	6.14	118.70	105.20
122	KA	4	DT	OP1-P-O3'	6.14	118.70	105.20
189	R8	15	DC	P-O3'-C3'	-6.14	112.33	119.70
238	X9	43	DC	P-O3'-C3'	-6.14	112.33	119.70
5	A5	2	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	449	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	468	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	706	DA	OP2-P-O3'	6.14	118.70	105.20
11	AB	845	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	1950	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	1976	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	2228	DA	OP2-P-O3'	6.14	118.70	105.20
11	AB	2261	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	2381	DT	P-O3'-C3'	-6.14	112.33	119.70
11	AB	2589	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	2955	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	3129	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	3465	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	3501	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	3585	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	3690	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	3846	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	4128	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	4259	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	4662	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	4818	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	5078	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	5092	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	5135	DC	P-O3'-C3'	-6.14	112.33	119.70
11	AB	5531	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	6475	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	6613	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	6664	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	6841	DT	OP1-P-O3'	6.14	118.70	105.20
11	AB	6899	DC	P-O3'-C3'	-6.14	112.34	119.70
22	B9	5	DC	P-O3'-C3'	-6.14	112.33	119.70
29	C5	41	DT	OP1-P-O3'	6.14	118.70	105.20
35	CC	10	DC	P-O3'-C3'	-6.14	112.33	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	D2	12	DC	P-O3'-C3'	-6.14	112.33	119.70
38	D2	15	DC	P-O3'-C3'	-6.14	112.34	119.70
44	D9	28	DC	P-O3'-C3'	-6.14	112.34	119.70
52	E6	20	DC	P-O3'-C3'	-6.14	112.34	119.70
70	G1	4	DT	OP1-P-O3'	6.14	118.70	105.20
84	H5	21	DC	P-O3'-C3'	-6.14	112.34	119.70
84	H5	23	DC	P-O3'-C3'	-6.14	112.33	119.70
111	JA	11	DT	OP1-P-O3'	6.14	118.70	105.20
114	K1	43	DT	OP1-P-O3'	6.14	118.70	105.20
126	L2	42	DC	P-O3'-C3'	-6.14	112.34	119.70
160	O7	15	DT	OP1-P-O3'	6.14	118.70	105.20
163	OA	10	DC	P-O3'-C3'	-6.14	112.34	119.70
173	PA	17	DT	OP1-P-O3'	6.14	118.70	105.20
192	RC	35	DC	P-O3'-C3'	-6.14	112.34	119.70
204	T3	8	DC	P-O3'-C3'	-6.14	112.34	119.70
11	AB	148	DA	OP2-P-O3'	6.13	118.70	105.20
11	AB	264	DT	OP1-P-O3'	6.13	118.70	105.20
11	AB	413	DT	OP1-P-O3'	6.13	118.70	105.20
11	AB	425	DT	OP1-P-O3'	6.13	118.70	105.20
11	AB	626	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	650	DT	OP1-P-O3'	6.13	118.70	105.20
11	AB	1049	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	1334	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	1854	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	2973	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	3459	DT	OP1-P-O3'	6.13	118.70	105.20
11	AB	3468	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	3687	DT	OP1-P-O3'	6.13	118.70	105.20
11	AB	3702	DT	OP1-P-O3'	6.13	118.70	105.20
11	AB	4304	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	4324	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	4968	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5240	DT	OP1-P-O3'	6.13	118.70	105.20
11	AB	5577	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	5741	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	6228	DT	OP1-P-O3'	6.13	118.70	105.20
11	AB	6684	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	7138	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	7228	DC	P-O3'-C3'	-6.13	112.34	119.70
15	B2	21	DC	P-O3'-C3'	-6.13	112.34	119.70
22	B9	42	DC	P-O3'-C3'	-6.13	112.34	119.70
46	DC	17	DC	P-O3'-C3'	-6.13	112.34	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	EA	18	DC	P-O3'-C3'	-6.13	112.34	119.70
57	EC	15	DC	P-O3'-C3'	-6.13	112.34	119.70
62	F5	16	DC	P-O3'-C3'	-6.13	112.34	119.70
64	F7	13	DT	OP1-P-O3'	6.13	118.69	105.20
73	G5	1	DC	P-O3'-C3'	-6.13	112.34	119.70
76	G8	2	DT	OP1-P-O3'	6.13	118.69	105.20
82	H2	18	DC	P-O3'-C3'	-6.13	112.34	119.70
83	H3	4	DT	OP1-P-O3'	6.13	118.69	105.20
83	H3	15	DC	P-O3'-C3'	-6.13	112.34	119.70
93	I2	44	DT	OP1-P-O3'	6.13	118.69	105.20
96	I6	17	DC	P-O3'-C3'	-6.13	112.34	119.70
97	I7	29	DT	OP1-P-O3'	6.13	118.69	105.20
100	IA	8	DC	P-O3'-C3'	-6.13	112.34	119.70
108	J7	50	DC	P-O3'-C3'	-6.13	112.34	119.70
109	J8	32	DT	OP1-P-O3'	6.13	118.69	105.20
125	L1	47	DT	OP1-P-O3'	6.13	118.70	105.20
154	NC	27	DC	P-O3'-C3'	-6.13	112.34	119.70
160	O7	30	DC	P-O3'-C3'	-6.13	112.34	119.70
167	P3	21	DC	P-O3'-C3'	-6.13	112.34	119.70
218	UA	17	DT	OP1-P-O3'	6.13	118.70	105.20
2	A2	4	DC	P-O3'-C3'	-6.13	112.34	119.70
5	A5	40	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	398	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	843	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	953	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	1310	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	1422	DT	P-O3'-C3'	-6.13	112.34	119.70
11	AB	4519	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	4981	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5051	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5408	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5805	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	7068	DT	OP1-P-O3'	6.13	118.69	105.20
32	C8	14	DT	OP1-P-O3'	6.13	118.69	105.20
41	D6	44	DC	P-O3'-C3'	-6.13	112.34	119.70
43	D8	17	DC	P-O3'-C3'	-6.13	112.34	119.70
216	U8	1	DT	P-O3'-C3'	-6.13	112.34	119.70
11	AB	186	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	434	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	827	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	830	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	1154	DT	OP1-P-O3'	6.13	118.69	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1163	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	1316	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	1465	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	1823	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	2867	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	3145	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	3162	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	3696	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	3951	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	3958	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	4143	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	4275	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	4463	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	4849	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	5101	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5102	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5154	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5160	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5177	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5525	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5620	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	6071	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	6122	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	6980	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	7230	DT	OP1-P-O3'	6.13	118.69	105.20
47	DD	14	DT	OP1-P-O3'	6.13	118.69	105.20
47	DD	44	DC	P-O3'-C3'	-6.13	112.34	119.70
81	H1	5	DT	OP1-P-O3'	6.13	118.69	105.20
90	HC	6	DT	OP1-P-O3'	6.13	118.69	105.20
103	J1	12	DT	OP1-P-O3'	6.13	118.69	105.20
122	KA	41	DC	P-O3'-C3'	-6.13	112.34	119.70
143	MA	46	DC	P-O3'-C3'	-6.13	112.34	119.70
145	MD	40	DC	P-O3'-C3'	-6.13	112.34	119.70
152	N9	28	DT	OP1-P-O3'	6.13	118.69	105.20
156	O2	48	DC	P-O3'-C3'	-6.13	112.34	119.70
204	T3	25	DC	P-O3'-C3'	-6.13	112.34	119.70
228	VC	19	DC	P-O3'-C3'	-6.13	112.34	119.70
233	W8	20	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	212	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	440	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	956	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	1025	DT	OP1-P-O3'	6.13	118.69	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1139	DT	P-O3'-C3'	-6.13	112.34	119.70
11	AB	1772	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	1923	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	2578	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	3315	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	4134	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	4642	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	4707	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5379	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5398	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	5605	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	5874	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	5922	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	6252	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	6822	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	7105	DT	P-O3'-C3'	-6.13	112.34	119.70
11	AB	7198	DT	OP1-P-O3'	6.13	118.69	105.20
55	E9	44	DT	OP1-P-O3'	6.13	118.69	105.20
104	J2	7	DC	P-O3'-C3'	-6.13	112.34	119.70
127	L3	1	DC	P-O3'-C3'	-6.13	112.34	119.70
149	N6	46	DC	P-O3'-C3'	-6.13	112.34	119.70
172	P9	27	DT	OP1-P-O3'	6.13	118.69	105.20
174	PC	22	DT	OP1-P-O3'	6.13	118.69	105.20
223	V5	25	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	78	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	360	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	570	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	607	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	1627	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	2343	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	3309	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	3332	DT	P-O3'-C3'	-6.13	112.34	119.70
11	AB	3519	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	3660	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	3675	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	3749	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	3789	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	3918	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	4098	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	4194	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	4252	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	4540	DC	P-O3'-C3'	-6.13	112.34	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4705	DC	P-O3'-C3'	-6.13	112.34	119.70
11	AB	4889	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	5230	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	5467	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	6246	DT	P-O3'-C3'	-6.13	112.35	119.70
11	AB	6794	DT	OP1-P-O3'	6.13	118.69	105.20
47	DD	19	DC	P-O3'-C3'	-6.13	112.35	119.70
48	E1	16	DC	P-O3'-C3'	-6.13	112.35	119.70
105	J3	8	DT	OP1-P-O3'	6.13	118.68	105.20
107	J6	42	DT	OP1-P-O3'	6.13	118.68	105.20
119	K7	20	DT	OP1-P-O3'	6.13	118.69	105.20
126	L2	15	DT	OP1-P-O3'	6.13	118.68	105.20
126	L2	28	DC	P-O3'-C3'	-6.13	112.34	119.70
126	L2	39	DC	P-O3'-C3'	-6.13	112.34	119.70
152	N9	46	DT	OP1-P-O3'	6.13	118.68	105.20
156	O2	9	DT	OP1-P-O3'	6.13	118.68	105.20
164	OC	12	DC	P-O3'-C3'	-6.13	112.35	119.70
165	OD	27	DC	P-O3'-C3'	-6.13	112.34	119.70
180	Q8	21	DC	P-O3'-C3'	-6.13	112.35	119.70
197	S7	22	DT	OP1-P-O3'	6.13	118.68	105.20
198	S8	7	DT	OP1-P-O3'	6.13	118.68	105.20
214	U5	20	DT	OP1-P-O3'	6.13	118.69	105.20
11	AB	24	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	236	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	302	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	372	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	404	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	730	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	1666	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	1781	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	1961	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	1966	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	2817	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	3516	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	3812	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	3987	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	3990	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	4282	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	4323	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	4468	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	4885	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	4935	DC	P-O3'-C3'	-6.13	112.35	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5025	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	5039	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	5080	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	5287	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	5446	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	5586	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	6112	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	6303	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	6378	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	6749	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	7051	DC	P-O3'-C3'	-6.13	112.35	119.70
11	AB	7159	DT	OP1-P-O3'	6.13	118.68	105.20
22	B9	32	DC	P-O3'-C3'	-6.13	112.35	119.70
23	BA	35	DT	OP1-P-O3'	6.13	118.68	105.20
42	D7	6	DT	OP1-P-O3'	6.13	118.68	105.20
108	J7	15	DC	P-O3'-C3'	-6.13	112.35	119.70
117	K5	38	DT	OP1-P-O3'	6.13	118.68	105.20
171	P8	11	DC	P-O3'-C3'	-6.13	112.35	119.70
205	T5	16	DC	P-O3'-C3'	-6.13	112.35	119.70
212	U2	25	DC	P-O3'-C3'	-6.13	112.35	119.70
219	UC	5	DC	P-O3'-C3'	-6.13	112.35	119.70
222	V3	9	DT	OP1-P-O3'	6.13	118.68	105.20
227	VA	10	DT	OP1-P-O3'	6.13	118.68	105.20
230	W3	12	DT	OP1-P-O3'	6.13	118.68	105.20
238	X9	6	DT	OP1-P-O3'	6.13	118.68	105.20
238	X9	9	DT	OP1-P-O3'	6.13	118.68	105.20
11	AB	1067	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	2899	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	3076	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	3477	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	4037	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	4067	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	4552	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	4857	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	4995	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	5568	DT	P-O3'-C3'	-6.12	112.35	119.70
11	AB	6892	DT	OP1-P-O3'	6.12	118.67	105.20
39	D3	1	DT	OP1-P-O3'	6.12	118.67	105.20
61	F3	25	DC	P-O3'-C3'	-6.12	112.35	119.70
70	G1	14	DC	P-O3'-C3'	-6.12	112.35	119.70
77	G9	7	DT	OP1-P-O3'	6.12	118.67	105.20
109	J8	24	DT	OP1-P-O3'	6.12	118.68	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
181	Q9	38	DC	P-O3'-C3'	-6.12	112.35	119.70
2	A2	22	DT	OP1-P-O3'	6.12	118.67	105.20
8	A8	21	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	63	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	727	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	779	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	905	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	1127	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	2021	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	3051	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	3423	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	3648	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	3768	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	3777	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	4065	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	4609	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	5792	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	5984	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	6327	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	6377	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	6615	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	6826	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	7163	DA	OP2-P-O3'	6.12	118.67	105.20
48	E1	17	DC	P-O3'-C3'	-6.12	112.35	119.70
57	EC	13	DT	OP1-P-O3'	6.12	118.67	105.20
72	G3	3	DT	OP1-P-O3'	6.12	118.67	105.20
73	G5	12	DC	P-O3'-C3'	-6.12	112.35	119.70
79	GC	20	DT	OP1-P-O3'	6.12	118.67	105.20
83	H3	18	DT	OP1-P-O3'	6.12	118.67	105.20
93	I2	37	DT	OP1-P-O3'	6.12	118.67	105.20
108	J7	19	DT	OP1-P-O3'	6.12	118.67	105.20
140	M7	21	DT	OP1-P-O3'	6.12	118.67	105.20
143	MA	8	DT	OP1-P-O3'	6.12	118.67	105.20
146	N2	23	DC	P-O3'-C3'	-6.12	112.35	119.70
147	N3	29	DC	P-O3'-C3'	-6.12	112.35	119.70
152	N9	1	DT	OP1-P-O3'	6.12	118.67	105.20
152	N9	42	DT	OP1-P-O3'	6.12	118.67	105.20
159	O6	8	DC	P-O3'-C3'	-6.12	112.35	119.70
160	O7	29	DC	P-O3'-C3'	-6.12	112.35	119.70
188	R7	12	DT	OP1-P-O3'	6.12	118.67	105.20
188	R7	30	DC	P-O3'-C3'	-6.12	112.35	119.70
191	RA	10	DC	P-O3'-C3'	-6.12	112.35	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
224	V7	5	DC	P-O3'-C3'	-6.12	112.35	119.70
228	VC	31	DC	P-O3'-C3'	-6.12	112.35	119.70
2	A2	13	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	515	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	1136	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	1199	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	1394	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	1479	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	1705	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	3180	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	3603	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	4113	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	4193	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	4643	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	4680	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	5381	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	5867	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	6335	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	6713	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	7073	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	7117	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	7150	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	7155	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	7218	DC	P-O3'-C3'	-6.12	112.35	119.70
22	B9	3	DT	OP1-P-O3'	6.12	118.67	105.20
23	BA	32	DT	OP1-P-O3'	6.12	118.67	105.20
102	ID	7	DT	OP1-P-O3'	6.12	118.67	105.20
107	J6	11	DT	OP1-P-O3'	6.12	118.67	105.20
118	K6	8	DT	OP1-P-O3'	6.12	118.67	105.20
119	K7	34	DT	OP1-P-O3'	6.12	118.67	105.20
134	LC	11	DT	OP1-P-O3'	6.12	118.67	105.20
145	MD	45	DT	OP1-P-O3'	6.12	118.67	105.20
151	N8	18	DT	OP1-P-O3'	6.12	118.67	105.20
156	O2	30	DC	P-O3'-C3'	-6.12	112.36	119.70
173	PA	10	DC	P-O3'-C3'	-6.12	112.35	119.70
196	S5	16	DC	P-O3'-C3'	-6.12	112.35	119.70
11	AB	182	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	556	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	1091	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	1094	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	2121	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	2549	DT	OP1-P-O3'	6.12	118.66	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2832	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	3663	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	3752	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	4788	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	5023	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	5187	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	5233	DT	OP1-P-O3'	6.12	118.67	105.20
11	AB	5640	DT	OP1-P-O3'	6.12	118.67	105.20
55	E9	10	DT	OP1-P-O3'	6.12	118.66	105.20
76	G8	17	DT	OP1-P-O3'	6.12	118.66	105.20
85	H6	10	DC	P-O3'-C3'	-6.12	112.36	119.70
89	HA	32	DC	P-O3'-C3'	-6.12	112.36	119.70
108	J7	4	DT	OP1-P-O3'	6.12	118.66	105.20
115	K2	26	DT	OP1-P-O3'	6.12	118.67	105.20
118	K6	10	DC	P-O3'-C3'	-6.12	112.36	119.70
154	NC	33	DT	OP1-P-O3'	6.12	118.66	105.20
156	O2	52	DC	P-O3'-C3'	-6.12	112.36	119.70
161	O8	5	DT	OP1-P-O3'	6.12	118.66	105.20
183	QC	9	DT	OP1-P-O3'	6.12	118.66	105.20
185	R2	12	DC	P-O3'-C3'	-6.12	112.36	119.70
187	R5	6	DC	P-O3'-C3'	-6.12	112.36	119.70
7	A7	13	DT	OP1-P-O3'	6.12	118.66	105.20
9	A9	5	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	419	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	482	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	832	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	1174	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	1293	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	1558	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	1623	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	1895	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	3033	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	3492	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	4002	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	4427	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	4791	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	5008	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	6268	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	6399	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	6453	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	6517	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	6786	DC	P-O3'-C3'	-6.12	112.36	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7014	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	7049	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	7206	DC	P-O3'-C3'	-6.12	112.36	119.70
26	C1	1	DC	P-O3'-C3'	-6.12	112.36	119.70
49	E2	38	DC	P-O3'-C3'	-6.12	112.36	119.70
73	G5	2	DC	P-O3'-C3'	-6.12	112.36	119.70
94	I3	42	DT	OP1-P-O3'	6.12	118.66	105.20
94	I3	48	DC	P-O3'-C3'	-6.12	112.36	119.70
117	K5	22	DC	P-O3'-C3'	-6.12	112.36	119.70
129	L6	22	DT	OP1-P-O3'	6.12	118.66	105.20
137	M3	29	DC	P-O3'-C3'	-6.12	112.36	119.70
139	M6	22	DC	P-O3'-C3'	-6.12	112.36	119.70
139	M6	23	DC	P-O3'-C3'	-6.12	112.36	119.70
143	MA	21	DC	P-O3'-C3'	-6.12	112.36	119.70
161	O8	54	DC	P-O3'-C3'	-6.12	112.36	119.70
175	PD	18	DC	P-O3'-C3'	-6.12	112.36	119.70
184	QD	20	DC	P-O3'-C3'	-6.12	112.36	119.70
187	R5	13	DT	OP1-P-O3'	6.12	118.66	105.20
190	R9	7	DT	OP1-P-O3'	6.12	118.66	105.20
191	RA	11	DC	P-O3'-C3'	-6.12	112.36	119.70
197	S7	7	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	117	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	122	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	383	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	534	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	962	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	1314	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	4537	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	4621	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	4986	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	5033	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	5069	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	5118	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	5813	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	7227	DC	P-O3'-C3'	-6.12	112.36	119.70
95	I5	17	DT	OP1-P-O3'	6.12	118.66	105.20
109	J8	39	DT	OP1-P-O3'	6.12	118.66	105.20
117	K5	20	DC	P-O3'-C3'	-6.12	112.36	119.70
198	S8	26	DT	OP1-P-O3'	6.12	118.66	105.20
4	A4	22	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	410	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	840	DC	P-O3'-C3'	-6.12	112.36	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1015	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	1160	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	1193	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	1274	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	1844	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	2177	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	2234	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	2333	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	2378	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	2509	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	2537	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	2642	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	2753	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	3104	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	3305	DT	P-O3'-C3'	-6.12	112.36	119.70
11	AB	3444	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	3726	DT	OP1-P-O3'	6.12	118.66	105.20
11	AB	4944	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	5174	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	5198	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	5272	DT	OP1-P-O3'	6.12	118.65	105.20
11	AB	5869	DC	P-O3'-C3'	-6.12	112.36	119.70
11	AB	6834	DC	P-O3'-C3'	-6.12	112.36	119.70
20	B7	17	DC	P-O3'-C3'	-6.12	112.36	119.70
57	EC	20	DT	OP1-P-O3'	6.12	118.66	105.20
58	ED	22	DC	P-O3'-C3'	-6.12	112.36	119.70
74	G6	28	DT	OP1-P-O3'	6.12	118.66	105.20
78	GA	11	DT	OP1-P-O3'	6.12	118.66	105.20
88	H9	28	DC	P-O3'-C3'	-6.12	112.36	119.70
113	JD	29	DT	OP1-P-O3'	6.12	118.66	105.20
117	K5	31	DT	OP1-P-O3'	6.12	118.65	105.20
136	M2	5	DT	OP1-P-O3'	6.12	118.65	105.20
138	M5	15	DT	OP1-P-O3'	6.12	118.66	105.20
144	MC	11	DT	OP1-P-O3'	6.12	118.66	105.20
145	MD	39	DC	P-O3'-C3'	-6.12	112.36	119.70
145	MD	49	DC	P-O3'-C3'	-6.12	112.36	119.70
154	NC	3	DT	OP1-P-O3'	6.12	118.65	105.20
164	OC	15	DC	P-O3'-C3'	-6.12	112.36	119.70
191	RA	13	DC	P-O3'-C3'	-6.12	112.36	119.70
196	S5	20	DC	P-O3'-C3'	-6.12	112.36	119.70
200	SA	13	DC	P-O3'-C3'	-6.12	112.36	119.70
237	X7	12	DC	P-O3'-C3'	-6.12	112.36	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	339	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	899	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	1448	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	1500	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	3351	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	3975	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	4195	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	4729	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	4982	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	5004	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	5049	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	5151	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	5490	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	5604	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	5727	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	6384	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	6915	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	7189	DT	OP1-P-O3'	6.11	118.65	105.20
18	B5	5	DC	P-O3'-C3'	-6.11	112.36	119.70
43	D8	23	DC	P-O3'-C3'	-6.11	112.36	119.70
66	F9	18	DT	OP1-P-O3'	6.11	118.65	105.20
67	FA	30	DT	OP1-P-O3'	6.11	118.65	105.20
90	HC	13	DC	P-O3'-C3'	-6.11	112.36	119.70
122	KA	40	DC	P-O3'-C3'	-6.11	112.36	119.70
124	KD	5	DT	OP1-P-O3'	6.11	118.65	105.20
124	KD	22	DT	OP1-P-O3'	6.11	118.65	105.20
133	LA	5	DT	OP1-P-O3'	6.11	118.65	105.20
184	QD	13	DT	OP1-P-O3'	6.11	118.65	105.20
200	SA	10	DT	OP1-P-O3'	6.11	118.65	105.20
201	SC	4	DT	OP1-P-O3'	6.11	118.65	105.20
216	U8	23	DT	OP1-P-O3'	6.11	118.65	105.20
232	W7	17	DC	P-O3'-C3'	-6.11	112.36	119.70
236	X5	17	DC	P-O3'-C3'	-6.11	112.36	119.70
1	A1	20	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	344	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	473	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	926	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	949	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	2291	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	5027	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	5487	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	5571	DT	OP1-P-O3'	6.11	118.65	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5847	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	6021	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	6735	DC	P-O3'-C3'	-6.11	112.36	119.70
11	AB	6908	DC	P-O3'-C3'	-6.11	112.37	119.70
51	E5	22	DT	OP1-P-O3'	6.11	118.65	105.20
71	G2	5	DC	P-O3'-C3'	-6.11	112.37	119.70
125	L1	1	DT	OP1-P-O3'	6.11	118.65	105.20
135	LD	5	DT	OP1-P-O3'	6.11	118.65	105.20
160	O7	20	DC	P-O3'-C3'	-6.11	112.36	119.70
161	O8	26	DC	P-O3'-C3'	-6.11	112.37	119.70
174	PC	18	DT	OP1-P-O3'	6.11	118.65	105.20
206	T7	11	DT	OP1-P-O3'	6.11	118.65	105.20
234	W9	11	DT	OP1-P-O3'	6.11	118.65	105.20
11	AB	136	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	332	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	890	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	1018	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	1216	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	1364	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	1428	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	3099	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	3398	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	3441	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	4368	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	4863	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	5702	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	5953	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	6606	DC	P-O3'-C3'	-6.11	112.37	119.70
18	B5	4	DC	P-O3'-C3'	-6.11	112.37	119.70
45	DA	18	DC	P-O3'-C3'	-6.11	112.37	119.70
94	I3	27	DC	P-O3'-C3'	-6.11	112.37	119.70
102	ID	16	DT	OP1-P-O3'	6.11	118.64	105.20
117	K5	26	DT	OP1-P-O3'	6.11	118.64	105.20
119	K7	17	DC	P-O3'-C3'	-6.11	112.37	119.70
151	N8	5	DC	P-O3'-C3'	-6.11	112.37	119.70
157	O3	6	DC	P-O3'-C3'	-6.11	112.37	119.70
164	OC	23	DC	P-O3'-C3'	-6.11	112.37	119.70
187	R5	41	DC	P-O3'-C3'	-6.11	112.37	119.70
204	T3	6	DC	P-O3'-C3'	-6.11	112.37	119.70
207	T8	8	DT	OP1-P-O3'	6.11	118.64	105.20
214	U5	9	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	878	DT	OP1-P-O3'	6.11	118.64	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1180	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	1209	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	1622	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	2043	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	2466	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	2583	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	2878	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	3246	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	3794	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	3924	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	4909	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	5498	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	6285	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	6462	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	6490	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	6984	DT	OP1-P-O3'	6.11	118.64	105.20
30	C6	15	DT	OP1-P-O3'	6.11	118.64	105.20
48	E1	8	DC	P-O3'-C3'	-6.11	112.37	119.70
60	F2	1	DC	P-O3'-C3'	-6.11	112.37	119.70
101	IC	22	DC	P-O3'-C3'	-6.11	112.37	119.70
108	J7	52	DT	OP1-P-O3'	6.11	118.64	105.20
140	M7	8	DC	P-O3'-C3'	-6.11	112.37	119.70
212	U2	9	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	983	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	1340	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	1570	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	1754	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	1874	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	2436	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	3038	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	3390	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	3513	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	3681	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	3683	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	4064	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	4270	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	4294	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	4356	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	4374	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	5015	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	5823	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	7027	DT	OP1-P-O3'	6.11	118.64	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7164	DC	P-O3'-C3'	-6.11	112.37	119.70
32	C8	52	DT	OP1-P-O3'	6.11	118.64	105.20
37	D1	8	DC	P-O3'-C3'	-6.11	112.37	119.70
43	D8	20	DC	P-O3'-C3'	-6.11	112.37	119.70
65	F8	2	DT	OP1-P-O3'	6.11	118.63	105.20
72	G3	27	DT	OP1-P-O3'	6.11	118.64	105.20
91	HD	14	DT	OP1-P-O3'	6.11	118.64	105.20
97	I7	13	DT	OP1-P-O3'	6.11	118.64	105.20
98	I8	12	DC	P-O3'-C3'	-6.11	112.37	119.70
106	J5	23	DC	P-O3'-C3'	-6.11	112.37	119.70
150	N7	9	DC	P-O3'-C3'	-6.11	112.37	119.70
169	P6	19	DC	P-O3'-C3'	-6.11	112.37	119.70
172	P9	18	DT	OP1-P-O3'	6.11	118.64	105.20
178	Q5	23	DT	OP1-P-O3'	6.11	118.64	105.20
188	R7	4	DT	OP1-P-O3'	6.11	118.64	105.20
197	S7	11	DC	P-O3'-C3'	-6.11	112.37	119.70
232	W7	11	DT	OP1-P-O3'	6.11	118.64	105.20
11	AB	309	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	1248	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	1787	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	2543	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	2983	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	4627	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	4706	DC	P-O3'-C3'	-6.11	112.38	119.70
11	AB	4841	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	4900	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	5322	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	5424	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	5574	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	5794	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	5964	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	5971	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	6485	DC	P-O3'-C3'	-6.11	112.37	119.70
11	AB	6542	DT	OP1-P-O3'	6.11	118.63	105.20
11	AB	6627	DT	OP1-P-O3'	6.11	118.63	105.20
28	C3	6	DC	P-O3'-C3'	-6.11	112.37	119.70
31	C7	29	DT	OP1-P-O3'	6.11	118.63	105.20
58	ED	18	DT	OP1-P-O3'	6.11	118.63	105.20
82	H2	37	DT	OP1-P-O3'	6.11	118.63	105.20
82	H2	46	DT	OP1-P-O3'	6.11	118.63	105.20
111	JA	17	DC	P-O3'-C3'	-6.11	112.37	119.70
141	M8	14	DT	OP1-P-O3'	6.11	118.63	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
151	N8	14	DT	OP1-P-O3'	6.11	118.63	105.20
154	NC	1	DC	P-O3'-C3'	-6.11	112.37	119.70
173	PA	28	DC	P-O3'-C3'	-6.11	112.37	119.70
177	Q3	8	DC	P-O3'-C3'	-6.11	112.37	119.70
182	QA	10	DT	OP1-P-O3'	6.11	118.63	105.20
184	QD	4	DC	P-O3'-C3'	-6.11	112.37	119.70
189	R8	26	DT	OP1-P-O3'	6.11	118.63	105.20
219	UC	7	DT	OP1-P-O3'	6.11	118.63	105.20
228	VC	30	DC	P-O3'-C3'	-6.11	112.37	119.70
4	A4	13	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	202	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	1031	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	1366	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	2413	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	4934	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	5685	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	5844	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	7099	DC	P-O3'-C3'	-6.10	112.38	119.70
46	DC	5	DT	OP1-P-O3'	6.10	118.63	105.20
97	I7	21	DC	P-O3'-C3'	-6.10	112.38	119.70
107	J6	2	DC	P-O3'-C3'	-6.10	112.38	119.70
122	KA	43	DT	OP1-P-O3'	6.10	118.63	105.20
158	O5	52	DT	OP1-P-O3'	6.10	118.63	105.20
165	OD	31	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	591	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	967	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	1263	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	1269	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	1603	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	2186	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	2617	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	3096	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	3363	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	3378	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	3386	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	3738	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	4648	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	4739	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	5060	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	5064	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	5655	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	5906	DT	OP1-P-O3'	6.10	118.63	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6129	DT	OP1-P-O3'	6.10	118.63	105.20
11	AB	6779	DT	OP1-P-O3'	6.10	118.63	105.20
16	B3	15	DT	OP1-P-O3'	6.10	118.63	105.20
17	B4	12	DC	P-O3'-C3'	-6.10	112.38	119.70
20	B7	18	DC	P-O3'-C3'	-6.10	112.38	119.70
49	E2	1	DC	P-O3'-C3'	-6.10	112.38	119.70
85	H6	20	DT	OP1-P-O3'	6.10	118.63	105.20
116	K3	20	DC	P-O3'-C3'	-6.10	112.38	119.70
130	L7	54	DT	OP1-P-O3'	6.10	118.62	105.20
165	OD	34	DT	OP1-P-O3'	6.10	118.62	105.20
172	P9	14	DT	OP1-P-O3'	6.10	118.63	105.20
180	Q8	9	DT	OP1-P-O3'	6.10	118.62	105.20
187	R5	33	DC	P-O3'-C3'	-6.10	112.38	119.70
190	R9	29	DC	P-O3'-C3'	-6.10	112.38	119.70
236	X5	8	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	31	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	2532	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	3599	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	4135	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	4298	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	5254	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	6859	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	7122	DT	OP1-P-O3'	6.10	118.62	105.20
47	DD	28	DT	OP1-P-O3'	6.10	118.62	105.20
84	H5	19	DT	OP1-P-O3'	6.10	118.62	105.20
120	K8	5	DT	OP1-P-O3'	6.10	118.62	105.20
121	K9	26	DT	OP1-P-O3'	6.10	118.62	105.20
143	MA	12	DC	P-O3'-C3'	-6.10	112.38	119.70
162	O9	16	DC	P-O3'-C3'	-6.10	112.38	119.70
192	RC	32	DT	OP1-P-O3'	6.10	118.62	105.20
197	S7	9	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	99	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	896	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	911	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	1369	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	2017	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	2365	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	2621	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	2892	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	3821	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	4570	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	5002	DC	P-O3'-C3'	-6.10	112.38	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5420	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	5760	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	6150	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	6354	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	6407	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	6519	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	6526	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	6571	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	6772	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	6830	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	6968	DT	OP1-P-O3'	6.10	118.62	105.20
22	B9	44	DT	OP1-P-O3'	6.10	118.62	105.20
33	C9	8	DT	OP1-P-O3'	6.10	118.62	105.20
49	E2	31	DT	OP1-P-O3'	6.10	118.62	105.20
55	E9	37	DT	OP1-P-O3'	6.10	118.62	105.20
82	H2	39	DC	P-O3'-C3'	-6.10	112.38	119.70
84	H5	24	DC	P-O3'-C3'	-6.10	112.38	119.70
88	H9	13	DT	OP1-P-O3'	6.10	118.62	105.20
90	HC	20	DT	OP1-P-O3'	6.10	118.62	105.20
99	I9	19	DT	OP1-P-O3'	6.10	118.62	105.20
105	J3	15	DC	P-O3'-C3'	-6.10	112.38	119.70
137	M3	16	DT	OP1-P-O3'	6.10	118.62	105.20
138	M5	31	DT	OP1-P-O3'	6.10	118.62	105.20
160	O7	25	DT	OP1-P-O3'	6.10	118.62	105.20
178	Q5	3	DC	P-O3'-C3'	-6.10	112.38	119.70
178	Q5	27	DT	OP1-P-O3'	6.10	118.62	105.20
199	S9	17	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	17	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	347	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	516	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	765	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	788	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	872	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	920	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	991	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	1082	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	1239	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	1243	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	1244	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	1286	DT	OP1-P-O3'	6.10	118.62	105.20
11	AB	1590	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	2034	DT	OP1-P-O3'	6.10	118.61	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2061	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	3370	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	3654	DC	P-O3'-C3'	-6.10	112.38	119.70
11	AB	4364	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	5111	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	7176	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	7205	DC	P-O3'-C3'	-6.10	112.38	119.70
22	B9	15	DC	P-O3'-C3'	-6.10	112.38	119.70
24	BC	40	DC	P-O3'-C3'	-6.10	112.38	119.70
47	DD	10	DC	P-O3'-C3'	-6.10	112.38	119.70
56	EA	7	DT	OP1-P-O3'	6.10	118.61	105.20
75	G7	25	DT	OP1-P-O3'	6.10	118.61	105.20
94	I3	54	DT	OP1-P-O3'	6.10	118.61	105.20
113	JD	24	DC	P-O3'-C3'	-6.10	112.38	119.70
168	P5	1	DC	P-O3'-C3'	-6.10	112.38	119.70
175	PD	7	DT	OP1-P-O3'	6.10	118.61	105.20
195	S3	4	DT	OP1-P-O3'	6.10	118.61	105.20
226	V9	3	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	37	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	869	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	1247	DC	P-O3'-C3'	-6.10	112.39	119.70
11	AB	2931	DT	OP1-P-O3'	6.10	118.61	105.20
11	AB	3497	DC	P-O3'-C3'	-6.10	112.39	119.70
11	AB	4142	DC	P-O3'-C3'	-6.10	112.39	119.70
11	AB	4219	DC	P-O3'-C3'	-6.10	112.39	119.70
11	AB	6539	DT	OP1-P-O3'	6.10	118.61	105.20
96	I6	9	DT	OP1-P-O3'	6.10	118.61	105.20
125	L1	40	DC	P-O3'-C3'	-6.10	112.39	119.70
143	MA	31	DC	P-O3'-C3'	-6.10	112.38	119.70
194	S2	28	DT	OP1-P-O3'	6.10	118.61	105.20
209	TA	21	DC	P-O3'-C3'	-6.10	112.39	119.70
11	AB	545	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	713	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	1103	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	1112	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	1588	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	1749	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	2053	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	2156	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	2294	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	3368	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	3540	DT	OP1-P-O3'	6.09	118.61	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4334	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	4410	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	4487	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	5591	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	5701	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	6193	DC	P-O3'-C3'	-6.09	112.39	119.70
22	B9	40	DT	OP1-P-O3'	6.09	118.61	105.20
27	C2	8	DT	OP1-P-O3'	6.09	118.61	105.20
83	H3	1	DC	P-O3'-C3'	-6.09	112.39	119.70
104	J2	10	DC	P-O3'-C3'	-6.09	112.39	119.70
129	L6	5	DT	OP1-P-O3'	6.09	118.61	105.20
192	RC	34	DC	P-O3'-C3'	-6.09	112.39	119.70
215	U7	22	DT	OP1-P-O3'	6.09	118.61	105.20
219	UC	12	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	1361	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	1633	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	1768	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	2278	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	3651	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	3803	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	3894	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	4306	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	4511	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	5526	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	5755	DT	OP1-P-O3'	6.09	118.61	105.20
11	AB	5898	DT	OP1-P-O3'	6.09	118.60	105.20
32	C8	29	DC	P-O3'-C3'	-6.09	112.39	119.70
73	G5	23	DT	OP1-P-O3'	6.09	118.61	105.20
151	N8	6	DC	P-O3'-C3'	-6.09	112.39	119.70
174	PC	13	DT	OP1-P-O3'	6.09	118.61	105.20
205	T5	17	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	127	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	539	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	1226	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	1268	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	2627	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	2943	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	3915	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	4176	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	4591	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	5364	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	5771	DT	OP1-P-O3'	6.09	118.60	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5901	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	6119	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	6207	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	6459	DT	OP1-P-O3'	6.09	118.60	105.20
56	EA	14	DT	OP1-P-O3'	6.09	118.60	105.20
85	H6	25	DT	OP1-P-O3'	6.09	118.60	105.20
90	HC	12	DC	P-O3'-C3'	-6.09	112.39	119.70
109	J8	48	DT	OP1-P-O3'	6.09	118.60	105.20
174	PC	9	DT	OP1-P-O3'	6.09	118.60	105.20
177	Q3	21	DT	OP1-P-O3'	6.09	118.60	105.20
178	Q5	6	DC	P-O3'-C3'	-6.09	112.39	119.70
223	V5	12	DT	OP1-P-O3'	6.09	118.60	105.20
3	A3	22	DT	OP1-P-O3'	6.09	118.60	105.20
5	A5	30	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	313	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	315	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	866	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	1474	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	1488	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	3375	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	3546	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	3698	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	4001	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	4742	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	4746	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	5733	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	6554	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	6695	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	6904	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	7002	DT	OP1-P-O3'	6.09	118.60	105.20
11	AB	7245	DC	P-O3'-C3'	-6.09	112.39	119.70
17	B4	10	DT	OP1-P-O3'	6.09	118.60	105.20
34	CA	16	DT	OP1-P-O3'	6.09	118.60	105.20
48	E1	20	DT	OP1-P-O3'	6.09	118.60	105.20
56	EA	11	DT	OP1-P-O3'	6.09	118.60	105.20
60	F2	13	DC	P-O3'-C3'	-6.09	112.39	119.70
74	G6	34	DT	OP1-P-O3'	6.09	118.60	105.20
118	K6	17	DT	OP1-P-O3'	6.09	118.60	105.20
126	L2	23	DT	OP1-P-O3'	6.09	118.60	105.20
134	LC	7	DC	P-O3'-C3'	-6.09	112.39	119.70
166	P2	31	DC	P-O3'-C3'	-6.09	112.39	119.70
187	R5	24	DT	OP1-P-O3'	6.09	118.60	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	881	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	1642	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	2138	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	2300	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	4220	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	4340	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	4969	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	4987	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	5282	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	6058	DC	P-O3'-C3'	-6.09	112.39	119.70
11	AB	6437	DT	OP1-P-O3'	6.09	118.59	105.20
55	E9	19	DC	P-O3'-C3'	-6.09	112.39	119.70
145	MD	50	DC	P-O3'-C3'	-6.09	112.39	119.70
179	Q7	20	DT	OP1-P-O3'	6.09	118.59	105.20
232	W7	5	DT	OP1-P-O3'	6.09	118.59	105.20
4	A4	12	DC	P-O3'-C3'	-6.09	112.40	119.70
6	A6	20	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	1280	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	1346	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	3405	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	4492	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	4495	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	4744	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	5492	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	5559	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	6114	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	6210	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	6856	DT	OP1-P-O3'	6.09	118.59	105.20
28	C3	12	DT	OP1-P-O3'	6.09	118.59	105.20
31	C7	18	DT	OP1-P-O3'	6.09	118.59	105.20
39	D3	8	DC	P-O3'-C3'	-6.09	112.40	119.70
87	H8	11	DC	P-O3'-C3'	-6.09	112.40	119.70
125	L1	24	DT	OP1-P-O3'	6.09	118.59	105.20
148	N5	34	DT	OP1-P-O3'	6.09	118.59	105.20
161	O8	22	DT	OP1-P-O3'	6.09	118.59	105.20
11	AB	28	DT	OP1-P-O3'	6.08	118.59	105.20
11	AB	1458	DT	OP1-P-O3'	6.08	118.59	105.20
11	AB	3360	DT	OP1-P-O3'	6.08	118.59	105.20
11	AB	3420	DT	OP1-P-O3'	6.08	118.59	105.20
11	AB	3887	DT	OP1-P-O3'	6.08	118.59	105.20
11	AB	5680	DT	OP1-P-O3'	6.08	118.59	105.20
68	FC	4	DT	OP1-P-O3'	6.08	118.59	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
74	G6	20	DT	OP1-P-O3'	6.08	118.59	105.20
107	J6	1	DC	P-O3'-C3'	-6.08	112.40	119.70
11	AB	818	DC	P-O3'-C3'	-6.08	112.40	119.70
11	AB	1337	DT	OP1-P-O3'	6.08	118.58	105.20
11	AB	2760	DT	OP1-P-O3'	6.08	118.58	105.20
11	AB	3242	DT	OP1-P-O3'	6.08	118.59	105.20
11	AB	4596	DC	P-O3'-C3'	-6.08	112.40	119.70
11	AB	5429	DT	OP1-P-O3'	6.08	118.58	105.20
11	AB	5502	DT	OP1-P-O3'	6.08	118.58	105.20
11	AB	6140	DT	OP1-P-O3'	6.08	118.58	105.20
11	AB	6759	DT	OP1-P-O3'	6.08	118.58	105.20
11	AB	6887	DC	P-O3'-C3'	-6.08	112.40	119.70
119	K7	26	DT	OP1-P-O3'	6.08	118.58	105.20
216	U8	20	DC	P-O3'-C3'	-6.08	112.40	119.70
11	AB	800	DT	OP1-P-O3'	6.08	118.58	105.20
11	AB	1440	DT	OP1-P-O3'	6.08	118.58	105.20
11	AB	2351	DT	P-O3'-C3'	-6.08	112.40	119.70
11	AB	3891	DT	OP1-P-O3'	6.08	118.58	105.20
11	AB	5103	DC	P-O3'-C3'	-6.08	112.40	119.70
11	AB	6767	DT	OP1-P-O3'	6.08	118.58	105.20
74	G6	32	DT	OP1-P-O3'	6.08	118.58	105.20
90	HC	9	DC	P-O3'-C3'	-6.08	112.40	119.70
101	IC	12	DT	OP1-P-O3'	6.08	118.58	105.20
141	M8	20	DT	OP1-P-O3'	6.08	118.58	105.20
149	N6	25	DT	OP1-P-O3'	6.08	118.58	105.20
207	T8	6	DT	OP1-P-O3'	6.08	118.58	105.20
211	TD	16	DT	OP1-P-O3'	6.08	118.58	105.20
218	UA	4	DT	OP1-P-O3'	6.08	118.58	105.20
11	AB	235	DC	P-O3'-C3'	-6.08	112.40	119.70
11	AB	378	DC	P-O3'-C3'	-6.08	112.40	119.70
11	AB	3234	DT	OP1-P-O3'	6.08	118.58	105.20
69	FD	16	DC	P-O3'-C3'	-6.08	112.40	119.70
11	AB	3276	DT	OP1-P-O3'	6.08	118.57	105.20
11	AB	5145	DC	P-O3'-C3'	-6.08	112.41	119.70
11	AB	5275	DT	OP1-P-O3'	6.08	118.57	105.20
11	AB	5976	DT	OP1-P-O3'	6.08	118.57	105.20
11	AB	6290	DT	OP1-P-O3'	6.08	118.57	105.20
11	AB	6929	DT	OP1-P-O3'	6.08	118.57	105.20
23	BA	8	DC	P-O3'-C3'	-6.08	112.41	119.70
54	E8	25	DT	OP1-P-O3'	6.08	118.57	105.20
59	F1	9	DC	P-O3'-C3'	-6.08	112.41	119.70
62	F5	19	DC	P-O3'-C3'	-6.08	112.41	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
69	FD	36	DT	OP1-P-O3'	6.08	118.57	105.20
31	C7	14	DT	OP1-P-O3'	6.08	118.57	105.20
37	D1	21	DC	P-O3'-C3'	-6.08	112.41	119.70
187	R5	11	DC	P-O3'-C3'	-6.08	112.41	119.70
11	AB	1175	DC	P-O3'-C3'	-6.08	112.41	119.70
11	AB	2159	DT	OP1-P-O3'	6.08	118.56	105.20
11	AB	3114	DT	OP1-P-O3'	6.08	118.57	105.20
11	AB	3140	DC	P-O3'-C3'	-6.08	112.41	119.70
11	AB	3870	DT	OP1-P-O3'	6.08	118.57	105.20
56	EA	21	DC	P-O3'-C3'	-6.08	112.41	119.70
175	PD	10	DC	P-O3'-C3'	-6.08	112.41	119.70
205	T5	3	DC	P-O3'-C3'	-6.08	112.41	119.70
206	T7	4	DT	OP1-P-O3'	6.08	118.57	105.20
11	AB	320	DT	OP1-P-O3'	6.07	118.56	105.20
11	AB	2309	DT	OP1-P-O3'	6.07	118.56	105.20
11	AB	4826	DC	P-O3'-C3'	-6.07	112.41	119.70
35	CC	29	DT	OP1-P-O3'	6.07	118.56	105.20
37	D1	18	DC	P-O3'-C3'	-6.07	112.41	119.70
137	M3	24	DC	P-O3'-C3'	-6.07	112.41	119.70
1	A1	10	DC	P-O3'-C3'	-6.07	112.42	119.70
10	AA	18	DC	P-O3'-C3'	-6.07	112.42	119.70
11	AB	92	DT	OP1-P-O3'	6.07	118.56	105.20
11	AB	1259	DT	OP1-P-O3'	6.07	118.55	105.20
11	AB	6619	DT	OP1-P-O3'	6.07	118.56	105.20
11	AB	7108	DT	OP1-P-O3'	6.07	118.56	105.20
102	ID	1	DT	OP1-P-O3'	6.07	118.56	105.20
230	W3	6	DC	P-O3'-C3'	-6.07	112.42	119.70
11	AB	1027	DC	P-O3'-C3'	-6.07	112.42	119.70
11	AB	1896	DC	P-O3'-C3'	-6.07	112.42	119.70
11	AB	1993	DC	P-O3'-C3'	-6.07	112.42	119.70
11	AB	4752	DT	OP1-P-O3'	6.07	118.55	105.20
11	AB	13	DT	OP1-P-O3'	6.07	118.55	105.20
11	AB	151	DT	OP1-P-O3'	6.07	118.55	105.20
11	AB	4444	DC	P-O3'-C3'	-6.07	112.42	119.70
11	AB	6513	DT	OP1-P-O3'	6.07	118.55	105.20
11	AB	6836	DT	OP1-P-O3'	6.07	118.55	105.20
11	AB	1430	DC	P-O3'-C3'	-6.07	112.42	119.70
11	AB	3965	DT	OP1-P-O3'	6.07	118.55	105.20
11	AB	6018	DT	OP1-P-O3'	6.07	118.54	105.20
11	AB	6222	DT	OP1-P-O3'	6.07	118.55	105.20
52	E6	22	DC	P-O3'-C3'	-6.07	112.42	119.70
11	AB	773	DC	P-O3'-C3'	-6.06	112.42	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4937	DC	P-O3'-C3'	-6.06	112.42	119.70
11	AB	1115	DT	OP1-P-O3'	6.06	118.53	105.20
11	AB	4897	DC	P-O3'-C3'	-6.05	112.44	119.70
11	AB	5664	DT	P-O3'-C3'	-6.05	112.44	119.70
11	AB	3106	DC	P-O3'-C3'	-6.05	112.44	119.70
11	AB	485	DT	P-O3'-C3'	-6.03	112.46	119.70
11	AB	4576	DC	P-O3'-C3'	-6.00	112.50	119.70
11	AB	3224	DT	P-O3'-C3'	-5.99	112.51	119.70
11	AB	5852	DC	P-O3'-C3'	-5.99	112.52	119.70
11	AB	685	DC	P-O3'-C3'	-5.98	112.52	119.70
11	AB	3319	DC	P-O3'-C3'	-5.91	112.61	119.70
11	AB	5003	DC	OP1-P-O3'	5.86	118.09	105.20
11	AB	5212	DC	OP1-P-O3'	5.83	118.03	105.20
11	AB	3301	DC	OP1-P-O3'	5.82	118.01	105.20
11	AB	5136	DC	P-O3'-C3'	-5.81	112.72	119.70
146	N2	20	DA	P-O3'-C3'	-5.81	112.73	119.70
219	UC	34	DA	P-O3'-C3'	-5.81	112.73	119.70
11	AB	2638	DC	OP1-P-O3'	5.81	117.98	105.20
11	AB	3776	DC	OP1-P-O3'	5.81	117.97	105.20
11	AB	3047	DC	OP1-P-O3'	5.80	117.97	105.20
11	AB	5918	DC	OP1-P-O3'	5.80	117.97	105.20
107	J6	32	DA	P-O3'-C3'	-5.80	112.73	119.70
124	KD	11	DA	P-O3'-C3'	-5.80	112.74	119.70
167	P3	33	DC	OP1-P-O3'	5.80	117.97	105.20
208	T9	7	DA	P-O3'-C3'	-5.80	112.73	119.70
11	AB	1436	DC	OP1-P-O3'	5.80	117.97	105.20
11	AB	2253	DC	OP1-P-O3'	5.80	117.97	105.20
11	AB	3263	DC	OP1-P-O3'	5.80	117.96	105.20
61	F3	4	DC	OP1-P-O3'	5.80	117.96	105.20
147	N3	8	DA	P-O3'-C3'	-5.80	112.74	119.70
196	S5	1	DA	P-O3'-C3'	-5.80	112.74	119.70
11	AB	2808	DA	P-O3'-C3'	-5.80	112.74	119.70
11	AB	3840	DA	P-O3'-C3'	-5.80	112.74	119.70
11	AB	4384	DC	OP1-P-O3'	5.80	117.96	105.20
37	D1	26	DC	OP1-P-O3'	5.80	117.96	105.20
39	D3	6	DC	OP1-P-O3'	5.80	117.96	105.20
222	V3	3	DA	P-O3'-C3'	-5.80	112.74	119.70
11	AB	6392	DC	OP1-P-O3'	5.80	117.96	105.20
11	AB	6476	DC	OP1-P-O3'	5.80	117.95	105.20
23	BA	24	DC	OP1-P-O3'	5.80	117.96	105.20
42	D7	11	DA	P-O3'-C3'	-5.80	112.74	119.70
124	KD	7	DC	OP1-P-O3'	5.80	117.96	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
161	O8	1	DA	P-O3'-C3'	-5.80	112.74	119.70
11	AB	2152	DC	OP1-P-O3'	5.80	117.95	105.20
11	AB	3910	DC	OP1-P-O3'	5.80	117.95	105.20
11	AB	4159	DC	OP1-P-O3'	5.80	117.95	105.20
11	AB	1805	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	3337	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	6202	DC	OP1-P-O3'	5.79	117.95	105.20
75	G7	16	DA	P-O3'-C3'	-5.79	112.75	119.70
97	I7	28	DC	OP1-P-O3'	5.79	117.95	105.20
11	AB	1398	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	1786	DC	OP1-P-O3'	5.79	117.95	105.20
11	AB	1947	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	2764	DC	OP1-P-O3'	5.79	117.95	105.20
11	AB	3296	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	4401	DC	OP1-P-O3'	5.79	117.95	105.20
11	AB	5461	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	5499	DC	OP1-P-O3'	5.79	117.95	105.20
11	AB	5517	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	5825	DC	OP1-P-O3'	5.79	117.95	105.20
83	H3	39	DA	P-O3'-C3'	-5.79	112.75	119.70
161	O8	31	DA	P-O3'-C3'	-5.79	112.75	119.70
178	Q5	22	DC	OP1-P-O3'	5.79	117.94	105.20
204	T3	26	DC	OP1-P-O3'	5.79	117.95	105.20
11	AB	1522	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	2658	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	3500	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	3709	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	4119	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	4592	DC	OP1-P-O3'	5.79	117.94	105.20
65	F8	4	DC	OP1-P-O3'	5.79	117.94	105.20
129	L6	17	DA	P-O3'-C3'	-5.79	112.75	119.70
205	T5	6	DC	OP1-P-O3'	5.79	117.94	105.20
1	A1	39	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	244	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	379	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	887	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	902	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	3254	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	3270	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	4172	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	5996	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	6860	DC	OP1-P-O3'	5.79	117.94	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B5	30	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	673	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	1600	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	1937	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	2003	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	3011	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	3934	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	4827	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	5529	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	6068	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	6139	DC	OP1-P-O3'	5.79	117.94	105.20
11	AB	7149	DC	OP1-P-O3'	5.79	117.94	105.20
31	C7	6	DC	OP1-P-O3'	5.79	117.93	105.20
32	C8	48	DC	OP1-P-O3'	5.79	117.94	105.20
37	D1	37	DC	OP1-P-O3'	5.79	117.94	105.20
39	D3	24	DA	P-O3'-C3'	-5.79	112.75	119.70
80	GD	9	DA	P-O3'-C3'	-5.79	112.75	119.70
85	H6	18	DC	OP1-P-O3'	5.79	117.94	105.20
104	J2	30	DC	OP1-P-O3'	5.79	117.93	105.20
127	L3	5	DC	OP1-P-O3'	5.79	117.93	105.20
182	QA	3	DA	P-O3'-C3'	-5.79	112.75	119.70
197	S7	13	DC	OP1-P-O3'	5.79	117.93	105.20
224	V7	8	DA	P-O3'-C3'	-5.79	112.75	119.70
11	AB	1183	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	2992	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	5476	DC	OP1-P-O3'	5.79	117.93	105.20
40	D5	13	DA	P-O3'-C3'	-5.79	112.75	119.70
99	I9	5	DA	P-O3'-C3'	-5.79	112.76	119.70
104	J2	27	DC	OP1-P-O3'	5.79	117.93	105.20
110	J9	12	DA	P-O3'-C3'	-5.79	112.76	119.70
121	K9	21	DC	OP1-P-O3'	5.79	117.93	105.20
156	O2	12	DC	OP1-P-O3'	5.79	117.93	105.20
230	W3	7	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	538	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	1240	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	1954	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	2317	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	4647	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	5589	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	6113	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	6464	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	6470	DC	OP1-P-O3'	5.79	117.93	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7013	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	7074	DC	OP1-P-O3'	5.79	117.93	105.20
11	AB	7161	DC	OP1-P-O3'	5.79	117.93	105.20
21	B8	3	DC	OP1-P-O3'	5.79	117.93	105.20
30	C6	19	DC	OP1-P-O3'	5.79	117.93	105.20
90	HC	19	DC	OP1-P-O3'	5.79	117.93	105.20
131	L8	9	DA	P-O3'-C3'	-5.79	112.76	119.70
151	N8	3	DA	P-O3'-C3'	-5.79	112.76	119.70
206	T7	13	DC	OP1-P-O3'	5.79	117.93	105.20
220	UD	22	DC	OP1-P-O3'	5.79	117.93	105.20
2	A2	14	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	200	DC	OP1-P-O3'	5.78	117.93	105.20
11	AB	1502	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	1529	DA	P-O3'-C3'	-5.78	112.76	119.70
11	AB	1867	DC	OP1-P-O3'	5.78	117.93	105.20
11	AB	2242	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	2437	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	3189	DA	P-O3'-C3'	-5.78	112.76	119.70
11	AB	4544	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	4840	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	4983	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	5491	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	5509	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	5759	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	5828	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	6077	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	6395	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	6642	DA	P-O3'-C3'	-5.78	112.76	119.70
11	AB	6855	DC	OP1-P-O3'	5.78	117.92	105.20
54	E8	29	DC	OP1-P-O3'	5.78	117.92	105.20
64	F7	12	DC	OP1-P-O3'	5.78	117.92	105.20
82	H2	6	DC	OP1-P-O3'	5.78	117.92	105.20
84	H5	25	DC	OP1-P-O3'	5.78	117.92	105.20
94	I3	22	DA	P-O3'-C3'	-5.78	112.76	119.70
99	I9	4	DA	P-O3'-C3'	-5.78	112.76	119.70
117	K5	29	DC	OP1-P-O3'	5.78	117.92	105.20
154	NC	32	DC	OP1-P-O3'	5.78	117.92	105.20
181	Q9	7	DC	OP1-P-O3'	5.78	117.92	105.20
190	R9	42	DA	P-O3'-C3'	-5.78	112.76	119.70
199	S9	1	DA	P-O3'-C3'	-5.78	112.76	119.70
226	V9	25	DA	P-O3'-C3'	-5.78	112.76	119.70
11	AB	1475	DC	OP1-P-O3'	5.78	117.92	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1579	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	1924	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	3196	DA	P-O3'-C3'	-5.78	112.76	119.70
11	AB	3352	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	5927	DA	P-O3'-C3'	-5.78	112.76	119.70
11	AB	6248	DA	P-O3'-C3'	-5.78	112.76	119.70
11	AB	6792	DC	OP1-P-O3'	5.78	117.92	105.20
55	E9	7	DA	P-O3'-C3'	-5.78	112.76	119.70
89	HA	9	DA	P-O3'-C3'	-5.78	112.76	119.70
106	J5	25	DA	P-O3'-C3'	-5.78	112.76	119.70
171	P8	12	DC	OP1-P-O3'	5.78	117.92	105.20
206	T7	3	DC	OP1-P-O3'	5.78	117.92	105.20
207	T8	17	DC	OP1-P-O3'	5.78	117.92	105.20
220	UD	1	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	118	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	1343	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	1857	DA	P-O3'-C3'	-5.78	112.76	119.70
11	AB	1872	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	1884	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	2960	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	2972	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	3143	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	3191	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	3249	DA	P-O3'-C3'	-5.78	112.76	119.70
11	AB	3374	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	4733	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	5853	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	5981	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	6163	DA	P-O3'-C3'	-5.78	112.76	119.70
11	AB	6224	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	6538	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	6637	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	6756	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	6903	DC	OP1-P-O3'	5.78	117.92	105.20
43	D8	29	DC	OP1-P-O3'	5.78	117.92	105.20
55	E9	23	DC	OP1-P-O3'	5.78	117.92	105.20
62	F5	7	DC	OP1-P-O3'	5.78	117.92	105.20
64	F7	7	DC	OP1-P-O3'	5.78	117.92	105.20
69	FD	32	DC	OP1-P-O3'	5.78	117.92	105.20
74	G6	13	DC	OP1-P-O3'	5.78	117.92	105.20
83	H3	16	DC	OP1-P-O3'	5.78	117.92	105.20
110	J9	21	DC	OP1-P-O3'	5.78	117.92	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
152	N9	19	DC	OP1-P-O3'	5.78	117.92	105.20
156	O2	33	DC	OP1-P-O3'	5.78	117.92	105.20
183	QC	5	DC	OP1-P-O3'	5.78	117.92	105.20
183	QC	13	DA	P-O3'-C3'	-5.78	112.76	119.70
192	RC	21	DC	OP1-P-O3'	5.78	117.92	105.20
196	S5	24	DC	OP1-P-O3'	5.78	117.92	105.20
198	S8	37	DC	OP1-P-O3'	5.78	117.92	105.20
221	V2	1	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	387	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	397	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	712	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	853	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	877	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	1218	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	1655	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	1743	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	2497	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	3284	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	3950	DC	OP1-P-O3'	5.78	117.92	105.20
11	AB	3999	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	4007	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	4146	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	4955	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	5075	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	6131	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	6706	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	7188	DC	OP1-P-O3'	5.78	117.91	105.20
44	D9	15	DA	P-O3'-C3'	-5.78	112.77	119.70
124	KD	4	DC	OP1-P-O3'	5.78	117.91	105.20
172	P9	17	DC	OP1-P-O3'	5.78	117.91	105.20
186	R3	15	DC	OP1-P-O3'	5.78	117.92	105.20
215	U7	12	DC	OP1-P-O3'	5.78	117.91	105.20
232	W7	20	DC	OP1-P-O3'	5.78	117.91	105.20
8	A8	19	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	295	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	500	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	529	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	630	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	739	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	831	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	1270	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	1322	DA	P-O3'-C3'	-5.78	112.77	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1353	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	1840	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	3159	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	3347	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	5063	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	5104	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	5678	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	5739	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	5765	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	6025	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	6736	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	6807	DC	OP1-P-O3'	5.78	117.91	105.20
22	B9	30	DA	P-O3'-C3'	-5.78	112.77	119.70
41	D6	6	DC	OP1-P-O3'	5.78	117.91	105.20
43	D8	27	DC	OP1-P-O3'	5.78	117.91	105.20
85	H6	13	DA	P-O3'-C3'	-5.78	112.77	119.70
130	L7	57	DA	P-O3'-C3'	-5.78	112.77	119.70
136	M2	1	DC	OP1-P-O3'	5.78	117.91	105.20
146	N2	19	DA	P-O3'-C3'	-5.78	112.77	119.70
147	N3	13	DC	OP1-P-O3'	5.78	117.91	105.20
159	O6	16	DC	OP1-P-O3'	5.78	117.91	105.20
163	OA	8	DA	P-O3'-C3'	-5.78	112.77	119.70
170	P7	10	DA	P-O3'-C3'	-5.78	112.77	119.70
174	PC	12	DC	OP1-P-O3'	5.78	117.91	105.20
176	Q2	11	DC	OP1-P-O3'	5.78	117.91	105.20
189	R8	16	DC	OP1-P-O3'	5.78	117.91	105.20
200	SA	19	DA	P-O3'-C3'	-5.78	112.77	119.70
205	T5	18	DC	OP1-P-O3'	5.78	117.91	105.20
238	X9	18	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	187	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	218	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	544	DC	OP1-P-O3'	5.78	117.90	105.20
11	AB	649	DC	OP1-P-O3'	5.78	117.90	105.20
11	AB	743	DC	OP1-P-O3'	5.78	117.90	105.20
11	AB	1093	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	1387	DC	OP1-P-O3'	5.78	117.90	105.20
11	AB	2147	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	2224	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	2260	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	2936	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	3146	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	3294	DC	OP1-P-O3'	5.78	117.91	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3833	DC	OP1-P-O3'	5.78	117.90	105.20
11	AB	4377	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	4467	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	4619	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	4913	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	5059	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	5302	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	5459	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	5615	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	5631	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	5783	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	6253	DC	OP1-P-O3'	5.78	117.91	105.20
11	AB	7223	DA	P-O3'-C3'	-5.78	112.77	119.70
11	AB	7237	DC	OP1-P-O3'	5.78	117.91	105.20
22	B9	6	DC	OP1-P-O3'	5.78	117.91	105.20
65	F8	15	DA	P-O3'-C3'	-5.78	112.77	119.70
67	FA	29	DC	OP1-P-O3'	5.78	117.91	105.20
74	G6	22	DC	OP1-P-O3'	5.78	117.91	105.20
82	H2	25	DC	OP1-P-O3'	5.78	117.91	105.20
102	ID	13	DC	OP1-P-O3'	5.78	117.91	105.20
117	K5	13	DC	OP1-P-O3'	5.78	117.91	105.20
119	K7	33	DC	OP1-P-O3'	5.78	117.91	105.20
160	O7	14	DC	OP1-P-O3'	5.78	117.91	105.20
165	OD	56	DC	OP1-P-O3'	5.78	117.91	105.20
214	U5	10	DC	OP1-P-O3'	5.78	117.91	105.20
227	VA	27	DC	OP1-P-O3'	5.78	117.91	105.20
7	A7	33	DA	P-O3'-C3'	-5.77	112.77	119.70
11	AB	128	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	256	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	299	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	565	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	1062	DA	P-O3'-C3'	-5.77	112.77	119.70
11	AB	1285	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	1478	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	1556	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	2176	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	2669	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	2843	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	2897	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	3178	DA	P-O3'-C3'	-5.77	112.77	119.70
11	AB	3941	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	4005	DC	OP1-P-O3'	5.77	117.90	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5871	DA	P-O3'-C3'	-5.77	112.77	119.70
11	AB	6408	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	6827	DC	OP1-P-O3'	5.77	117.90	105.20
67	FA	13	DA	P-O3'-C3'	-5.77	112.77	119.70
123	KC	8	DA	P-O3'-C3'	-5.77	112.77	119.70
161	O8	17	DC	OP1-P-O3'	5.77	117.90	105.20
164	OC	17	DC	OP1-P-O3'	5.77	117.90	105.20
180	Q8	22	DC	OP1-P-O3'	5.77	117.90	105.20
187	R5	12	DC	OP1-P-O3'	5.77	117.90	105.20
200	SA	21	DA	P-O3'-C3'	-5.77	112.77	119.70
201	SC	16	DA	P-O3'-C3'	-5.77	112.77	119.70
7	A7	37	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	355	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	469	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	601	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	826	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	1162	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	1277	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	1536	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	1582	DA	P-O3'-C3'	-5.77	112.77	119.70
11	AB	1951	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	2251	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	2392	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	2618	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	2742	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	3641	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	3706	DA	P-O3'-C3'	-5.77	112.77	119.70
11	AB	4391	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	4502	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	4712	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	4802	DA	P-O3'-C3'	-5.77	112.77	119.70
11	AB	5527	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	5596	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	5691	DA	P-O3'-C3'	-5.77	112.77	119.70
11	AB	6014	DA	P-O3'-C3'	-5.77	112.77	119.70
11	AB	6075	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	6436	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	6602	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	7219	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	7225	DC	OP1-P-O3'	5.77	117.90	105.20
24	BC	31	DC	OP1-P-O3'	5.77	117.90	105.20
27	C2	7	DC	OP1-P-O3'	5.77	117.90	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	C6	8	DA	P-O3'-C3'	-5.77	112.77	119.70
65	F8	1	DC	OP1-P-O3'	5.77	117.90	105.20
84	H5	29	DC	OP1-P-O3'	5.77	117.90	105.20
93	I2	43	DC	OP1-P-O3'	5.77	117.90	105.20
122	KA	6	DC	OP1-P-O3'	5.77	117.90	105.20
122	KA	46	DC	OP1-P-O3'	5.77	117.90	105.20
143	MA	6	DA	P-O3'-C3'	-5.77	112.77	119.70
152	N9	27	DC	OP1-P-O3'	5.77	117.90	105.20
154	NC	2	DC	OP1-P-O3'	5.77	117.90	105.20
181	Q9	22	DC	OP1-P-O3'	5.77	117.90	105.20
185	R2	13	DC	OP1-P-O3'	5.77	117.90	105.20
195	S3	11	DC	OP1-P-O3'	5.77	117.90	105.20
232	W7	25	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	280	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	1306	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	1495	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	1675	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1801	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	2645	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	3317	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	3512	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	3923	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	4189	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	5380	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	5795	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	5876	DA	P-O3'-C3'	-5.77	112.78	119.70
17	B4	20	DC	OP1-P-O3'	5.77	117.90	105.20
114	K1	42	DC	OP1-P-O3'	5.77	117.90	105.20
128	L5	6	DC	OP1-P-O3'	5.77	117.89	105.20
157	O3	8	DA	P-O3'-C3'	-5.77	112.78	119.70
169	P6	20	DC	OP1-P-O3'	5.77	117.89	105.20
191	RA	30	DA	P-O3'-C3'	-5.77	112.78	119.70
216	U8	3	DA	P-O3'-C3'	-5.77	112.78	119.70
236	X5	7	DC	OP1-P-O3'	5.77	117.90	105.20
11	AB	79	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	211	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	559	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	597	DA	P-O3'-C3'	-5.77	112.78	119.70
11	AB	694	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	835	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	865	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1065	DC	OP1-P-O3'	5.77	117.89	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1249	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1691	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1799	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2100	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2185	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2329	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2398	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	3359	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	3645	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	3692	DA	P-O3'-C3'	-5.77	112.78	119.70
11	AB	3991	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	4168	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	4362	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	4810	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	4922	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	5320	DA	P-O3'-C3'	-5.77	112.78	119.70
11	AB	5663	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	5750	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	5939	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6486	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6533	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6835	DC	OP1-P-O3'	5.77	117.89	105.20
19	B6	22	DC	OP1-P-O3'	5.77	117.89	105.20
29	C5	21	DA	P-O3'-C3'	-5.77	112.78	119.70
29	C5	38	DA	P-O3'-C3'	-5.77	112.78	119.70
32	C8	44	DC	OP1-P-O3'	5.77	117.89	105.20
50	E3	16	DA	P-O3'-C3'	-5.77	112.78	119.70
78	GA	14	DA	P-O3'-C3'	-5.77	112.78	119.70
83	H3	2	DC	OP1-P-O3'	5.77	117.89	105.20
89	HA	8	DA	P-O3'-C3'	-5.77	112.78	119.70
89	HA	33	DC	OP1-P-O3'	5.77	117.89	105.20
90	HC	5	DC	OP1-P-O3'	5.77	117.89	105.20
93	I2	26	DC	OP1-P-O3'	5.77	117.89	105.20
100	IA	11	DC	OP1-P-O3'	5.77	117.89	105.20
119	K7	40	DC	OP1-P-O3'	5.77	117.89	105.20
130	L7	39	DA	P-O3'-C3'	-5.77	112.78	119.70
170	P7	7	DC	OP1-P-O3'	5.77	117.89	105.20
202	SD	12	DC	OP1-P-O3'	5.77	117.89	105.20
203	T2	5	DC	OP1-P-O3'	5.77	117.89	105.20
208	T9	18	DC	OP1-P-O3'	5.77	117.89	105.20
209	TA	10	DA	P-O3'-C3'	-5.77	112.78	119.70
227	VA	8	DC	OP1-P-O3'	5.77	117.89	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A3	5	DA	P-O3'-C3'	-5.77	112.78	119.70
6	A6	14	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	175	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	561	DA	P-O3'-C3'	-5.77	112.78	119.70
11	AB	647	DA	P-O3'-C3'	-5.77	112.78	119.70
11	AB	679	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	764	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	778	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	814	DA	P-O3'-C3'	-5.77	112.78	119.70
11	AB	844	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	961	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1078	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1466	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1506	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1662	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1849	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2425	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2647	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2675	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2692	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	3556	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	3968	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	4039	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	4406	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	4594	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	4694	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	4829	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6053	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6284	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6289	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6359	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6414	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6888	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	7052	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	7054	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	7182	DC	OP1-P-O3'	5.77	117.89	105.20
16	B3	10	DA	P-O3'-C3'	-5.77	112.78	119.70
31	C7	17	DC	OP1-P-O3'	5.77	117.89	105.20
41	D6	16	DC	OP1-P-O3'	5.77	117.89	105.20
43	D8	18	DC	OP1-P-O3'	5.77	117.89	105.20
58	ED	17	DC	OP1-P-O3'	5.77	117.89	105.20
62	F5	34	DA	P-O3'-C3'	-5.77	112.78	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
88	H9	12	DC	OP1-P-O3'	5.77	117.89	105.20
89	HA	26	DA	P-O3'-C3'	-5.77	112.78	119.70
104	J2	37	DC	OP1-P-O3'	5.77	117.89	105.20
108	J7	51	DC	OP1-P-O3'	5.77	117.89	105.20
143	MA	32	DC	OP1-P-O3'	5.77	117.89	105.20
162	O9	8	DC	OP1-P-O3'	5.77	117.89	105.20
197	S7	21	DC	OP1-P-O3'	5.77	117.89	105.20
221	V2	25	DA	P-O3'-C3'	-5.77	112.78	119.70
223	V5	11	DC	OP1-P-O3'	5.77	117.89	105.20
224	V7	9	DA	P-O3'-C3'	-5.77	112.78	119.70
230	W3	3	DA	P-O3'-C3'	-5.77	112.78	119.70
2	A2	8	DA	P-O3'-C3'	-5.77	112.78	119.70
8	A8	22	DC	OP1-P-O3'	5.77	117.88	105.20
11	AB	196	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	267	DA	P-O3'-C3'	-5.77	112.78	119.70
11	AB	629	DA	P-O3'-C3'	-5.77	112.78	119.70
11	AB	841	DC	OP1-P-O3'	5.77	117.88	105.20
11	AB	1054	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1072	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1081	DC	OP1-P-O3'	5.77	117.88	105.20
11	AB	1150	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1166	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1396	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1574	DC	OP1-P-O3'	5.77	117.88	105.20
11	AB	1586	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	1784	DA	P-O3'-C3'	-5.77	112.78	119.70
11	AB	1972	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2230	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2823	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	2984	DC	OP1-P-O3'	5.77	117.88	105.20
11	AB	3464	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	4136	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	5155	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	5296	DA	P-O3'-C3'	-5.77	112.78	119.70
11	AB	5431	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	5478	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	5549	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6231	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6410	DC	OP1-P-O3'	5.77	117.89	105.20
11	AB	6988	DC	OP1-P-O3'	5.77	117.89	105.20
22	B9	38	DC	OP1-P-O3'	5.77	117.89	105.20
30	C6	26	DC	OP1-P-O3'	5.77	117.89	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	D6	29	DA	P-O3'-C3'	-5.77	112.78	119.70
49	E2	24	DC	OP1-P-O3'	5.77	117.89	105.20
54	E8	21	DC	OP1-P-O3'	5.77	117.89	105.20
67	FA	19	DC	OP1-P-O3'	5.77	117.89	105.20
95	I5	3	DC	OP1-P-O3'	5.77	117.89	105.20
149	N6	3	DC	OP1-P-O3'	5.77	117.89	105.20
160	O7	21	DC	OP1-P-O3'	5.77	117.89	105.20
210	TC	12	DC	OP1-P-O3'	5.77	117.89	105.20
233	W8	19	DC	OP1-P-O3'	5.77	117.88	105.20
238	X9	56	DA	P-O3'-C3'	-5.77	112.78	119.70
1	A1	50	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	433	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	709	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	889	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	1132	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	1140	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	1210	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	1245	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	1420	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	1731	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	1771	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	2041	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	2059	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	2136	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	2664	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	2881	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3443	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3450	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3574	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	3686	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3902	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3988	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	4015	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	4066	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	4149	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	4494	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	4548	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	4938	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	5235	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	5243	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	5932	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	5936	DC	OP1-P-O3'	5.76	117.88	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6096	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	6276	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	6371	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	7131	DC	OP1-P-O3'	5.76	117.88	105.20
27	C2	12	DC	OP1-P-O3'	5.76	117.88	105.20
43	D8	10	DC	OP1-P-O3'	5.76	117.88	105.20
48	E1	32	DC	OP1-P-O3'	5.76	117.88	105.20
70	G1	3	DC	OP1-P-O3'	5.76	117.88	105.20
98	I8	26	DC	OP1-P-O3'	5.76	117.88	105.20
112	JC	23	DA	P-O3'-C3'	-5.76	112.78	119.70
118	K6	16	DC	OP1-P-O3'	5.76	117.88	105.20
138	M5	37	DC	OP1-P-O3'	5.76	117.88	105.20
138	M5	41	DA	P-O3'-C3'	-5.76	112.78	119.70
142	M9	7	DA	P-O3'-C3'	-5.76	112.78	119.70
145	MD	25	DC	OP1-P-O3'	5.76	117.88	105.20
147	N3	26	DC	OP1-P-O3'	5.76	117.88	105.20
160	O7	38	DA	P-O3'-C3'	-5.76	112.78	119.70
170	P7	9	DA	P-O3'-C3'	-5.76	112.78	119.70
183	QC	12	DA	P-O3'-C3'	-5.76	112.78	119.70
187	R5	31	DC	OP1-P-O3'	5.76	117.88	105.20
189	R8	4	DA	P-O3'-C3'	-5.76	112.78	119.70
199	S9	7	DA	P-O3'-C3'	-5.76	112.78	119.70
208	T9	21	DC	OP1-P-O3'	5.76	117.88	105.20
209	TA	34	DC	OP1-P-O3'	5.76	117.88	105.20
223	V5	19	DA	P-O3'-C3'	-5.76	112.78	119.70
228	VC	20	DC	OP1-P-O3'	5.76	117.88	105.20
2	A2	21	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	115	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	209	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	576	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	1598	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	1602	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	1994	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	2281	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	2705	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	3003	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3340	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3344	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3509	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3665	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3695	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	3764	DC	OP1-P-O3'	5.76	117.88	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3793	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	4155	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	4325	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	4450	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	4678	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	4766	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	5140	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	5216	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	5785	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	5963	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	6721	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	6909	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	6954	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	7166	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	7229	DC	OP1-P-O3'	5.76	117.88	105.20
29	C5	4	DA	P-O3'-C3'	-5.76	112.78	119.70
54	E8	18	DC	OP1-P-O3'	5.76	117.88	105.20
74	G6	36	DC	OP1-P-O3'	5.76	117.88	105.20
75	G7	6	DC	OP1-P-O3'	5.76	117.88	105.20
103	J1	18	DA	P-O3'-C3'	-5.76	112.78	119.70
114	K1	8	DC	OP1-P-O3'	5.76	117.88	105.20
114	K1	39	DC	OP1-P-O3'	5.76	117.88	105.20
126	L2	8	DC	OP1-P-O3'	5.76	117.88	105.20
137	M3	10	DA	P-O3'-C3'	-5.76	112.78	119.70
187	R5	39	DC	OP1-P-O3'	5.76	117.88	105.20
198	S8	21	DA	P-O3'-C3'	-5.76	112.78	119.70
234	W9	10	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	416	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	448	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	586	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	1057	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	1542	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	1626	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	1890	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	1960	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	2535	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	2599	DA	P-O3'-C3'	-5.76	112.78	119.70
11	AB	3830	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	4395	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	4626	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	4948	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	5706	DA	P-O3'-C3'	-5.76	112.79	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5707	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	5930	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	6350	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	6547	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	6614	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	6744	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	6840	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	7045	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	7114	DC	OP1-P-O3'	5.76	117.88	105.20
11	AB	7139	DC	OP1-P-O3'	5.76	117.88	105.20
44	D9	19	DC	OP1-P-O3'	5.76	117.87	105.20
51	E5	26	DC	OP1-P-O3'	5.76	117.87	105.20
60	F2	7	DC	OP1-P-O3'	5.76	117.87	105.20
72	G3	2	DC	OP1-P-O3'	5.76	117.87	105.20
72	G3	15	DC	OP1-P-O3'	5.76	117.87	105.20
72	G3	22	DA	P-O3'-C3'	-5.76	112.79	119.70
82	H2	32	DC	OP1-P-O3'	5.76	117.88	105.20
94	I3	9	DA	P-O3'-C3'	-5.76	112.79	119.70
107	J6	27	DC	OP1-P-O3'	5.76	117.88	105.20
123	KC	9	DA	P-O3'-C3'	-5.76	112.78	119.70
129	L6	21	DC	OP1-P-O3'	5.76	117.88	105.20
141	M8	19	DC	OP1-P-O3'	5.76	117.87	105.20
156	O2	6	DA	P-O3'-C3'	-5.76	112.79	119.70
157	O3	21	DA	P-O3'-C3'	-5.76	112.79	119.70
178	Q5	12	DC	OP1-P-O3'	5.76	117.88	105.20
196	S5	2	DA	P-O3'-C3'	-5.76	112.78	119.70
210	TC	28	DA	P-O3'-C3'	-5.76	112.79	119.70
212	U2	7	DA	P-O3'-C3'	-5.76	112.79	119.70
216	U8	7	DA	P-O3'-C3'	-5.76	112.79	119.70
235	WD	17	DA	P-O3'-C3'	-5.76	112.78	119.70
5	A5	27	DA	P-O3'-C3'	-5.76	112.79	119.70
5	A5	32	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	208	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	308	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	472	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	594	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	769	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	1147	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	1707	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	1915	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	1986	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	2512	DA	P-O3'-C3'	-5.76	112.79	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2529	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	2600	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	2912	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	3827	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	4013	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	4208	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	4360	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	4899	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	5522	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	5696	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	5708	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	5800	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	5831	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	5877	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	6227	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	6404	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	6670	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	6703	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	7000	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	7118	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	7147	DC	OP1-P-O3'	5.76	117.87	105.20
26	C1	14	DC	OP1-P-O3'	5.76	117.87	105.20
57	EC	16	DC	OP1-P-O3'	5.76	117.87	105.20
62	F5	43	DC	OP1-P-O3'	5.76	117.87	105.20
71	G2	6	DC	OP1-P-O3'	5.76	117.87	105.20
75	G7	1	DA	P-O3'-C3'	-5.76	112.79	119.70
76	G8	21	DA	P-O3'-C3'	-5.76	112.79	119.70
83	H3	6	DC	OP1-P-O3'	5.76	117.87	105.20
83	H3	22	DA	P-O3'-C3'	-5.76	112.79	119.70
94	I3	35	DA	P-O3'-C3'	-5.76	112.79	119.70
99	I9	7	DC	OP1-P-O3'	5.76	117.87	105.20
104	J2	18	DC	OP1-P-O3'	5.76	117.87	105.20
106	J5	8	DC	OP1-P-O3'	5.76	117.87	105.20
107	J6	23	DC	OP1-P-O3'	5.76	117.87	105.20
108	J7	32	DA	P-O3'-C3'	-5.76	112.79	119.70
112	JC	13	DC	OP1-P-O3'	5.76	117.87	105.20
125	L1	37	DC	OP1-P-O3'	5.76	117.87	105.20
129	L6	26	DA	P-O3'-C3'	-5.76	112.79	119.70
142	M9	8	DA	P-O3'-C3'	-5.76	112.79	119.70
167	P3	23	DC	OP1-P-O3'	5.76	117.87	105.20
214	U5	22	DC	OP1-P-O3'	5.76	117.87	105.20
228	VC	25	DA	P-O3'-C3'	-5.76	112.79	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	91	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	263	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	1048	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	1499	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	1624	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	1695	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	2113	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	2283	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	2701	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	2709	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	3025	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	3260	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	3647	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	4124	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	4719	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	4726	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	4855	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	5239	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	5376	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	5606	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	6555	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	6978	DC	OP1-P-O3'	5.76	117.87	105.20
24	BC	36	DA	P-O3'-C3'	-5.76	112.79	119.70
29	C5	23	DC	OP1-P-O3'	5.76	117.87	105.20
43	D8	6	DA	P-O3'-C3'	-5.76	112.79	119.70
54	E8	6	DC	OP1-P-O3'	5.76	117.87	105.20
72	G3	7	DA	P-O3'-C3'	-5.76	112.79	119.70
82	H2	44	DC	OP1-P-O3'	5.76	117.87	105.20
109	J8	6	DA	P-O3'-C3'	-5.76	112.79	119.70
111	JA	15	DC	OP1-P-O3'	5.76	117.87	105.20
137	M3	9	DA	P-O3'-C3'	-5.76	112.79	119.70
151	N8	7	DC	OP1-P-O3'	5.76	117.87	105.20
155	ND	18	DA	P-O3'-C3'	-5.76	112.79	119.70
158	O5	51	DC	OP1-P-O3'	5.76	117.87	105.20
188	R7	16	DA	P-O3'-C3'	-5.76	112.79	119.70
189	R8	8	DC	OP1-P-O3'	5.76	117.87	105.20
191	RA	22	DA	P-O3'-C3'	-5.76	112.79	119.70
230	W3	31	DC	OP1-P-O3'	5.76	117.87	105.20
1	A1	35	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	48	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	1002	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	1128	DC	OP1-P-O3'	5.76	117.86	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1968	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	2015	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	2576	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	2846	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	3217	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	3515	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	3622	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	3919	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	4205	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	4490	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	4569	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	4674	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	5314	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	5469	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	5585	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	5648	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	6194	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	6551	DC	OP1-P-O3'	5.76	117.87	105.20
11	AB	6712	DC	OP1-P-O3'	5.76	117.86	105.20
11	AB	7212	DA	P-O3'-C3'	-5.76	112.79	119.70
44	D9	10	DC	OP1-P-O3'	5.76	117.86	105.20
47	DD	17	DA	P-O3'-C3'	-5.76	112.79	119.70
48	E1	3	DA	P-O3'-C3'	-5.76	112.79	119.70
71	G2	17	DA	P-O3'-C3'	-5.76	112.79	119.70
77	G9	1	DC	OP1-P-O3'	5.76	117.87	105.20
93	I2	46	DC	OP1-P-O3'	5.76	117.86	105.20
101	IC	23	DC	OP1-P-O3'	5.76	117.86	105.20
108	J7	16	DC	OP1-P-O3'	5.76	117.87	105.20
122	KA	42	DC	OP1-P-O3'	5.76	117.86	105.20
131	L8	15	DA	P-O3'-C3'	-5.76	112.79	119.70
138	M5	30	DC	OP1-P-O3'	5.76	117.87	105.20
152	N9	48	DA	P-O3'-C3'	-5.76	112.79	119.70
156	O2	8	DC	OP1-P-O3'	5.76	117.86	105.20
165	OD	9	DA	P-O3'-C3'	-5.76	112.79	119.70
172	P9	22	DC	OP1-P-O3'	5.76	117.86	105.20
175	PD	22	DA	P-O3'-C3'	-5.76	112.79	119.70
193	RD	6	DA	P-O3'-C3'	-5.76	112.79	119.70
223	V5	14	DA	P-O3'-C3'	-5.76	112.79	119.70
235	WD	9	DA	P-O3'-C3'	-5.76	112.79	119.70
11	AB	1630	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	2275	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	2511	DA	P-O3'-C3'	-5.75	112.79	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2598	DA	P-O3'-C3'	-5.75	112.79	119.70
11	AB	2879	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	3322	DA	P-O3'-C3'	-5.75	112.79	119.70
11	AB	3674	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	4203	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	4464	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	4500	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	4888	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	5392	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	5773	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	6105	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	6503	DC	OP1-P-O3'	5.75	117.86	105.20
62	F5	20	DC	OP1-P-O3'	5.75	117.86	105.20
95	I5	9	DA	P-O3'-C3'	-5.75	112.79	119.70
110	J9	7	DC	OP1-P-O3'	5.75	117.86	105.20
138	M5	21	DA	P-O3'-C3'	-5.75	112.79	119.70
161	O8	12	DA	P-O3'-C3'	-5.75	112.79	119.70
174	PC	8	DC	OP1-P-O3'	5.75	117.86	105.20
213	U3	20	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	191	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	322	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	505	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	567	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	670	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	863	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	932	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	1328	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	1485	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	1614	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	1693	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	1812	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	2188	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	2332	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	2353	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	2514	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	2521	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	2584	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	2611	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	2852	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	3028	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	3113	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	3149	DC	OP1-P-O3'	5.75	117.86	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3170	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	3172	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	3323	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	3446	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	3493	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	3658	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	3872	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	3977	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	4504	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	4862	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	5020	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	5110	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	5373	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	5920	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	6190	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	6381	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	6383	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	6403	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	6618	DC	OP1-P-O3'	5.75	117.86	105.20
12	AC	8	DA	P-O3'-C3'	-5.75	112.80	119.70
13	AD	34	DC	OP1-P-O3'	5.75	117.86	105.20
27	C2	17	DA	P-O3'-C3'	-5.75	112.80	119.70
27	C2	21	DC	OP1-P-O3'	5.75	117.86	105.20
58	ED	33	DA	P-O3'-C3'	-5.75	112.80	119.70
92	I1	24	DC	OP1-P-O3'	5.75	117.86	105.20
109	J8	47	DC	OP1-P-O3'	5.75	117.86	105.20
141	M8	27	DC	OP1-P-O3'	5.75	117.86	105.20
149	N6	17	DA	P-O3'-C3'	-5.75	112.80	119.70
175	PD	2	DA	P-O3'-C3'	-5.75	112.80	119.70
185	R2	17	DA	P-O3'-C3'	-5.75	112.80	119.70
196	S5	26	DA	P-O3'-C3'	-5.75	112.80	119.70
200	SA	20	DA	P-O3'-C3'	-5.75	112.80	119.70
208	T9	9	DC	OP1-P-O3'	5.75	117.86	105.20
210	TC	10	DA	P-O3'-C3'	-5.75	112.80	119.70
216	U8	21	DC	OP1-P-O3'	5.75	117.86	105.20
219	UC	6	DC	OP1-P-O3'	5.75	117.86	105.20
220	UD	10	DC	OP1-P-O3'	5.75	117.86	105.20
223	V5	23	DC	OP1-P-O3'	5.75	117.86	105.20
227	VA	3	DC	OP1-P-O3'	5.75	117.86	105.20
10	AA	14	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	343	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	418	DC	OP1-P-O3'	5.75	117.85	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	592	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	1511	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	1560	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	1562	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	2107	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	2264	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	2346	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	2700	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	2981	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	3053	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	4217	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	4263	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	5006	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	6051	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	6676	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	7125	DA	P-O3'-C3'	-5.75	112.80	119.70
14	B1	34	DC	OP1-P-O3'	5.75	117.85	105.20
63	F6	7	DA	P-O3'-C3'	-5.75	112.80	119.70
72	G3	6	DA	P-O3'-C3'	-5.75	112.80	119.70
94	I3	8	DA	P-O3'-C3'	-5.75	112.80	119.70
105	J3	16	DC	OP1-P-O3'	5.75	117.85	105.20
109	J8	30	DA	P-O3'-C3'	-5.75	112.80	119.70
125	L1	3	DA	P-O3'-C3'	-5.75	112.80	119.70
130	L7	40	DA	P-O3'-C3'	-5.75	112.80	119.70
140	M7	18	DA	P-O3'-C3'	-5.75	112.80	119.70
148	N5	24	DC	OP1-P-O3'	5.75	117.85	105.20
165	OD	45	DA	P-O3'-C3'	-5.75	112.80	119.70
172	P9	26	DC	OP1-P-O3'	5.75	117.85	105.20
173	PA	20	DA	P-O3'-C3'	-5.75	112.80	119.70
185	R2	23	DA	P-O3'-C3'	-5.75	112.80	119.70
190	R9	39	DA	P-O3'-C3'	-5.75	112.80	119.70
198	S8	15	DA	P-O3'-C3'	-5.75	112.80	119.70
204	T3	15	DC	OP1-P-O3'	5.75	117.85	105.20
209	TA	7	DA	P-O3'-C3'	-5.75	112.80	119.70
210	TC	6	DC	OP1-P-O3'	5.75	117.85	105.20
214	U5	18	DC	OP1-P-O3'	5.75	117.86	105.20
217	U9	12	DC	OP1-P-O3'	5.75	117.85	105.20
231	W5	14	DC	OP1-P-O3'	5.75	117.85	105.20
238	X9	5	DC	OP1-P-O3'	5.75	117.86	105.20
11	AB	463	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	934	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	1517	DA	P-O3'-C3'	-5.75	112.80	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2211	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	5515	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	5699	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	5757	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	5861	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	6235	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	7112	DA	P-O3'-C3'	-5.75	112.80	119.70
14	B1	29	DA	P-O3'-C3'	-5.75	112.80	119.70
22	B9	43	DC	OP1-P-O3'	5.75	117.85	105.20
52	E6	24	DC	OP1-P-O3'	5.75	117.85	105.20
64	F7	2	DA	P-O3'-C3'	-5.75	112.80	119.70
84	H5	36	DC	OP1-P-O3'	5.75	117.85	105.20
127	L3	17	DC	OP1-P-O3'	5.75	117.85	105.20
143	MA	15	DC	OP1-P-O3'	5.75	117.85	105.20
158	O5	17	DA	P-O3'-C3'	-5.75	112.80	119.70
195	S3	3	DC	OP1-P-O3'	5.75	117.85	105.20
197	S7	16	DA	P-O3'-C3'	-5.75	112.80	119.70
217	U9	17	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	571	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	904	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	1410	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	2650	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	3185	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	3485	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	3904	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	4242	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	4268	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	4916	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	5091	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	5666	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	5789	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	6147	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	6155	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	6219	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	6559	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	6688	DC	OP1-P-O3'	5.75	117.85	105.20
11	AB	7191	DC	OP1-P-O3'	5.75	117.85	105.20
22	B9	20	DC	OP1-P-O3'	5.75	117.85	105.20
30	C6	5	DA	P-O3'-C3'	-5.75	112.80	119.70
37	D1	1	DC	OP1-P-O3'	5.75	117.85	105.20
37	D1	34	DC	OP1-P-O3'	5.75	117.84	105.20
83	H3	12	DA	P-O3'-C3'	-5.75	112.80	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
83	H3	31	DA	P-O3'-C3'	-5.75	112.80	119.70
113	JD	36	DA	P-O3'-C3'	-5.75	112.80	119.70
116	K3	18	DA	P-O3'-C3'	-5.75	112.80	119.70
119	K7	15	DA	P-O3'-C3'	-5.75	112.80	119.70
125	L1	15	DA	P-O3'-C3'	-5.75	112.80	119.70
133	LA	7	DC	OP1-P-O3'	5.75	117.85	105.20
139	M6	5	DC	OP1-P-O3'	5.75	117.85	105.20
144	MC	19	DC	OP1-P-O3'	5.75	117.84	105.20
163	OA	6	DA	P-O3'-C3'	-5.75	112.80	119.70
173	PA	5	DA	P-O3'-C3'	-5.75	112.80	119.70
215	U7	2	DA	P-O3'-C3'	-5.75	112.80	119.70
224	V7	6	DC	OP1-P-O3'	5.75	117.85	105.20
226	V9	6	DA	P-O3'-C3'	-5.75	112.80	119.70
226	V9	10	DA	P-O3'-C3'	-5.75	112.80	119.70
229	VD	9	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	574	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	1000	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	1231	DA	P-O3'-C3'	-5.75	112.81	119.70
11	AB	2025	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	2074	DA	P-O3'-C3'	-5.75	112.81	119.70
11	AB	2581	DA	P-O3'-C3'	-5.75	112.81	119.70
11	AB	2666	DA	P-O3'-C3'	-5.75	112.81	119.70
11	AB	3125	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	4533	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	5600	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	5933	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	6069	DA	P-O3'-C3'	-5.75	112.81	119.70
11	AB	6466	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	6650	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	6805	DC	OP1-P-O3'	5.75	117.84	105.20
15	B2	6	DA	P-O3'-C3'	-5.75	112.80	119.70
35	CC	12	DC	OP1-P-O3'	5.75	117.84	105.20
37	D1	13	DA	P-O3'-C3'	-5.75	112.80	119.70
46	DC	21	DC	OP1-P-O3'	5.75	117.84	105.20
51	E5	12	DC	OP1-P-O3'	5.75	117.84	105.20
85	H6	24	DC	OP1-P-O3'	5.75	117.84	105.20
93	I2	16	DA	P-O3'-C3'	-5.75	112.81	119.70
107	J6	19	DA	P-O3'-C3'	-5.75	112.80	119.70
107	J6	38	DA	P-O3'-C3'	-5.75	112.80	119.70
115	K2	21	DC	OP1-P-O3'	5.75	117.84	105.20
117	K5	10	DC	OP1-P-O3'	5.75	117.84	105.20
126	L2	33	DA	P-O3'-C3'	-5.75	112.80	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
135	LD	14	DA	P-O3'-C3'	-5.75	112.80	119.70
152	N9	14	DA	P-O3'-C3'	-5.75	112.81	119.70
184	QD	16	DA	P-O3'-C3'	-5.75	112.81	119.70
186	R3	20	DC	OP1-P-O3'	5.75	117.84	105.20
189	R8	3	DA	P-O3'-C3'	-5.75	112.80	119.70
197	S7	8	DC	OP1-P-O3'	5.75	117.84	105.20
215	U7	19	DC	OP1-P-O3'	5.75	117.84	105.20
225	V8	6	DA	P-O3'-C3'	-5.75	112.81	119.70
235	WD	6	DA	P-O3'-C3'	-5.75	112.80	119.70
237	X7	5	DA	P-O3'-C3'	-5.75	112.80	119.70
11	AB	62	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	3425	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	3854	DC	OP1-P-O3'	5.75	117.84	105.20
11	AB	4262	DA	P-O3'-C3'	-5.75	112.81	119.70
11	AB	6527	DC	OP1-P-O3'	5.75	117.84	105.20
22	B9	25	DA	P-O3'-C3'	-5.75	112.81	119.70
24	BC	37	DA	P-O3'-C3'	-5.75	112.81	119.70
27	C2	14	DA	P-O3'-C3'	-5.75	112.81	119.70
29	C5	20	DA	P-O3'-C3'	-5.75	112.81	119.70
69	FD	11	DA	P-O3'-C3'	-5.75	112.81	119.70
87	H8	25	DA	P-O3'-C3'	-5.75	112.81	119.70
99	I9	18	DC	OP1-P-O3'	5.75	117.84	105.20
122	KA	8	DC	OP1-P-O3'	5.75	117.84	105.20
125	L1	51	DA	P-O3'-C3'	-5.75	112.81	119.70
140	M7	9	DC	OP1-P-O3'	5.75	117.84	105.20
166	P2	33	DC	OP1-P-O3'	5.75	117.84	105.20
233	W8	24	DA	P-O3'-C3'	-5.75	112.81	119.70
1	A1	24	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	205	DC	OP1-P-O3'	5.74	117.84	105.20
11	AB	258	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	517	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	664	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	820	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	919	DC	OP1-P-O3'	5.74	117.84	105.20
11	AB	2694	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	2795	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	3320	DC	OP1-P-O3'	5.74	117.84	105.20
11	AB	4498	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	4690	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	5397	DC	OP1-P-O3'	5.74	117.84	105.20
11	AB	6118	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	6182	DC	OP1-P-O3'	5.74	117.84	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6196	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	6442	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	7210	DA	P-O3'-C3'	-5.74	112.81	119.70
40	D5	10	DA	P-O3'-C3'	-5.74	112.81	119.70
41	D6	36	DC	OP1-P-O3'	5.74	117.84	105.20
41	D6	45	DC	OP1-P-O3'	5.74	117.83	105.20
53	E7	7	DA	P-O3'-C3'	-5.74	112.81	119.70
59	F1	11	DC	OP1-P-O3'	5.74	117.83	105.20
61	F3	18	DA	P-O3'-C3'	-5.74	112.81	119.70
65	F8	14	DA	P-O3'-C3'	-5.74	112.81	119.70
73	G5	3	DC	OP1-P-O3'	5.74	117.84	105.20
109	J8	19	DA	P-O3'-C3'	-5.74	112.81	119.70
111	JA	7	DA	P-O3'-C3'	-5.74	112.81	119.70
160	O7	17	DA	P-O3'-C3'	-5.74	112.81	119.70
162	O9	14	DA	P-O3'-C3'	-5.74	112.81	119.70
163	OA	14	DC	OP1-P-O3'	5.74	117.84	105.20
189	R8	2	DA	P-O3'-C3'	-5.74	112.81	119.70
209	TA	22	DC	OP1-P-O3'	5.74	117.84	105.20
11	AB	1041	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	3964	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	4521	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	6084	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	6103	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	6589	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	7211	DA	P-O3'-C3'	-5.74	112.81	119.70
51	E5	19	DA	P-O3'-C3'	-5.74	112.81	119.70
97	I7	17	DA	P-O3'-C3'	-5.74	112.81	119.70
179	Q7	15	DA	P-O3'-C3'	-5.74	112.81	119.70
1	A1	48	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	402	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	782	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	959	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	1022	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	1733	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	1893	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	2490	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	2499	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	2609	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	2989	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	3101	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	3864	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	3971	DA	P-O3'-C3'	-5.74	112.81	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4380	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	4554	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	5171	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	5236	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	5878	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	6165	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	6640	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	7233	DA	P-O3'-C3'	-5.74	112.81	119.70
13	AD	24	DA	P-O3'-C3'	-5.74	112.81	119.70
34	CA	7	DA	P-O3'-C3'	-5.74	112.81	119.70
44	D9	14	DA	P-O3'-C3'	-5.74	112.81	119.70
47	DD	16	DA	P-O3'-C3'	-5.74	112.81	119.70
50	E3	17	DA	P-O3'-C3'	-5.74	112.81	119.70
58	ED	24	DA	P-O3'-C3'	-5.74	112.81	119.70
60	F2	29	DC	OP1-P-O3'	5.74	117.83	105.20
87	H8	8	DA	P-O3'-C3'	-5.74	112.81	119.70
103	J1	19	DA	P-O3'-C3'	-5.74	112.81	119.70
107	J6	29	DA	P-O3'-C3'	-5.74	112.81	119.70
120	K8	22	DA	P-O3'-C3'	-5.74	112.81	119.70
121	K9	10	DA	P-O3'-C3'	-5.74	112.81	119.70
124	KD	12	DA	P-O3'-C3'	-5.74	112.81	119.70
152	N9	15	DA	P-O3'-C3'	-5.74	112.81	119.70
165	OD	13	DA	P-O3'-C3'	-5.74	112.81	119.70
177	Q3	9	DC	OP1-P-O3'	5.74	117.83	105.20
188	R7	17	DA	P-O3'-C3'	-5.74	112.81	119.70
188	R7	31	DC	OP1-P-O3'	5.74	117.83	105.20
194	S2	19	DA	P-O3'-C3'	-5.74	112.81	119.70
210	TC	9	DA	P-O3'-C3'	-5.74	112.81	119.70
211	TD	31	DA	P-O3'-C3'	-5.74	112.81	119.70
212	U2	17	DC	OP1-P-O3'	5.74	117.83	105.20
220	UD	14	DA	P-O3'-C3'	-5.74	112.81	119.70
223	V5	17	DA	P-O3'-C3'	-5.74	112.81	119.70
235	WD	10	DA	P-O3'-C3'	-5.74	112.81	119.70
1	A1	36	DA	P-O3'-C3'	-5.74	112.81	119.70
6	A6	26	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	490	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	519	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	1321	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	1404	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	1932	DC	OP1-P-O3'	5.74	117.83	105.20
11	AB	2164	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	2268	DA	P-O3'-C3'	-5.74	112.81	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2472	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	3118	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	3273	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	4253	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	4785	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	5292	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	6097	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	6919	DC	OP1-P-O3'	5.74	117.83	105.20
35	CC	15	DC	OP1-P-O3'	5.74	117.83	105.20
46	DC	9	DC	OP1-P-O3'	5.74	117.82	105.20
106	J5	17	DA	P-O3'-C3'	-5.74	112.81	119.70
107	J6	20	DA	P-O3'-C3'	-5.74	112.81	119.70
124	KD	2	DA	P-O3'-C3'	-5.74	112.81	119.70
137	M3	3	DA	P-O3'-C3'	-5.74	112.81	119.70
154	NC	37	DA	P-O3'-C3'	-5.74	112.81	119.70
163	OA	7	DA	P-O3'-C3'	-5.74	112.81	119.70
165	OD	8	DA	P-O3'-C3'	-5.74	112.81	119.70
178	Q5	40	DA	P-O3'-C3'	-5.74	112.81	119.70
192	RC	24	DA	P-O3'-C3'	-5.74	112.81	119.70
206	T7	28	DA	P-O3'-C3'	-5.74	112.81	119.70
222	V3	14	DA	P-O3'-C3'	-5.74	112.81	119.70
223	V5	18	DA	P-O3'-C3'	-5.74	112.81	119.70
229	VD	18	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	312	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	1300	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	3616	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	3938	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	4164	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	6975	DA	P-O3'-C3'	-5.74	112.82	119.70
34	CA	15	DC	OP1-P-O3'	5.74	117.82	105.20
74	G6	26	DA	P-O3'-C3'	-5.74	112.81	119.70
98	I8	28	DA	P-O3'-C3'	-5.74	112.81	119.70
145	MD	5	DA	P-O3'-C3'	-5.74	112.82	119.70
162	O9	11	DA	P-O3'-C3'	-5.74	112.81	119.70
188	R7	21	DA	P-O3'-C3'	-5.74	112.81	119.70
189	R8	10	DA	P-O3'-C3'	-5.74	112.81	119.70
198	S8	35	DA	P-O3'-C3'	-5.74	112.81	119.70
11	AB	170	DA	P-O3'-C3'	-5.74	112.82	119.70
11	AB	618	DA	P-O3'-C3'	-5.74	112.82	119.70
11	AB	1370	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	1700	DA	P-O3'-C3'	-5.74	112.82	119.70
11	AB	1704	DC	OP1-P-O3'	5.74	117.82	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1732	DA	P-O3'-C3'	-5.74	112.82	119.70
11	AB	1841	DA	P-O3'-C3'	-5.74	112.82	119.70
11	AB	1888	DA	P-O3'-C3'	-5.74	112.82	119.70
11	AB	2277	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	4373	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	4749	DA	P-O3'-C3'	-5.74	112.82	119.70
11	AB	5315	DA	P-O3'-C3'	-5.74	112.82	119.70
11	AB	6178	DA	P-O3'-C3'	-5.74	112.82	119.70
11	AB	6862	DC	OP1-P-O3'	5.74	117.82	105.20
11	AB	7127	DA	P-O3'-C3'	-5.74	112.82	119.70
25	BD	21	DA	P-O3'-C3'	-5.74	112.82	119.70
39	D3	30	DA	P-O3'-C3'	-5.74	112.82	119.70
47	DD	26	DA	P-O3'-C3'	-5.74	112.82	119.70
55	E9	14	DA	P-O3'-C3'	-5.74	112.82	119.70
64	F7	1	DA	P-O3'-C3'	-5.74	112.82	119.70
69	FD	5	DA	P-O3'-C3'	-5.74	112.82	119.70
69	FD	34	DA	P-O3'-C3'	-5.74	112.82	119.70
71	G2	16	DA	P-O3'-C3'	-5.74	112.82	119.70
88	H9	25	DA	P-O3'-C3'	-5.74	112.82	119.70
146	N2	16	DA	P-O3'-C3'	-5.74	112.82	119.70
162	O9	18	DC	OP1-P-O3'	5.74	117.82	105.20
196	S5	18	DA	P-O3'-C3'	-5.74	112.82	119.70
223	V5	15	DA	P-O3'-C3'	-5.74	112.82	119.70
226	V9	19	DA	P-O3'-C3'	-5.74	112.82	119.70
238	X9	23	DA	P-O3'-C3'	-5.74	112.82	119.70
238	X9	57	DA	P-O3'-C3'	-5.74	112.82	119.70
11	AB	1670	DC	OP1-P-O3'	5.73	117.82	105.20
11	AB	2484	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	2727	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	3705	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	5013	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	5692	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	6315	DA	P-O3'-C3'	-5.73	112.82	119.70
43	D8	15	DA	P-O3'-C3'	-5.73	112.82	119.70
49	E2	41	DA	P-O3'-C3'	-5.73	112.82	119.70
107	J6	16	DA	P-O3'-C3'	-5.73	112.82	119.70
160	O7	27	DA	P-O3'-C3'	-5.73	112.82	119.70
177	Q3	23	DA	P-O3'-C3'	-5.73	112.82	119.70
190	R9	31	DA	P-O3'-C3'	-5.73	112.82	119.70
211	TD	3	DA	P-O3'-C3'	-5.73	112.82	119.70
225	V8	9	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	996	DA	P-O3'-C3'	-5.73	112.82	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1514	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	2383	DC	OP1-P-O3'	5.73	117.81	105.20
11	AB	2685	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	2907	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	4264	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	4562	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	4779	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	5294	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	5553	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	6681	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	6777	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	6798	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	7126	DA	P-O3'-C3'	-5.73	112.82	119.70
23	BA	27	DC	OP1-P-O3'	5.73	117.81	105.20
25	BD	19	DA	P-O3'-C3'	-5.73	112.82	119.70
55	E9	30	DA	P-O3'-C3'	-5.73	112.82	119.70
122	KA	34	DA	P-O3'-C3'	-5.73	112.82	119.70
126	L2	56	DA	P-O3'-C3'	-5.73	112.82	119.70
140	M7	25	DA	P-O3'-C3'	-5.73	112.82	119.70
171	P8	7	DC	OP1-P-O3'	5.73	117.81	105.20
189	R8	1	DA	P-O3'-C3'	-5.73	112.82	119.70
190	R9	10	DA	P-O3'-C3'	-5.73	112.82	119.70
201	SC	15	DA	P-O3'-C3'	-5.73	112.82	119.70
207	T8	26	DA	P-O3'-C3'	-5.73	112.82	119.70
220	UD	15	DA	P-O3'-C3'	-5.73	112.82	119.70
221	V2	24	DA	P-O3'-C3'	-5.73	112.82	119.70
231	W5	21	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	391	DC	OP1-P-O3'	5.73	117.81	105.20
11	AB	808	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	1012	DC	OP1-P-O3'	5.73	117.81	105.20
11	AB	1021	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	1221	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	1827	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	3498	DC	OP1-P-O3'	5.73	117.81	105.20
11	AB	5195	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	5313	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	5514	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	5516	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	5776	DA	P-O3'-C3'	-5.73	112.82	119.70
11	AB	7111	DA	P-O3'-C3'	-5.73	112.82	119.70
25	BD	14	DA	P-O3'-C3'	-5.73	112.82	119.70
27	C2	18	DA	P-O3'-C3'	-5.73	112.82	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	CC	8	DA	P-O3'-C3'	-5.73	112.82	119.70
45	DA	26	DA	P-O3'-C3'	-5.73	112.82	119.70
67	FA	4	DA	P-O3'-C3'	-5.73	112.82	119.70
108	J7	39	DA	P-O3'-C3'	-5.73	112.82	119.70
129	L6	12	DA	P-O3'-C3'	-5.73	112.82	119.70
145	MD	7	DA	P-O3'-C3'	-5.73	112.82	119.70
170	P7	20	DA	P-O3'-C3'	-5.73	112.82	119.70
202	SD	8	DA	P-O3'-C3'	-5.73	112.82	119.70
202	SD	17	DA	P-O3'-C3'	-5.73	112.82	119.70
206	T7	27	DA	P-O3'-C3'	-5.73	112.82	119.70
219	UC	28	DA	P-O3'-C3'	-5.73	112.82	119.70
224	V7	10	DA	P-O3'-C3'	-5.73	112.82	119.70
237	X7	18	DA	P-O3'-C3'	-5.73	112.82	119.70
2	A2	1	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	83	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	551	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	1577	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	2075	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	2270	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	2812	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	5511	DC	OP1-P-O3'	5.73	117.80	105.20
11	AB	6732	DA	P-O3'-C3'	-5.73	112.83	119.70
15	B2	10	DA	P-O3'-C3'	-5.73	112.83	119.70
62	F5	26	DA	P-O3'-C3'	-5.73	112.83	119.70
75	G7	20	DA	P-O3'-C3'	-5.73	112.83	119.70
108	J7	38	DA	P-O3'-C3'	-5.73	112.83	119.70
109	J8	37	DA	P-O3'-C3'	-5.73	112.83	119.70
126	L2	55	DA	P-O3'-C3'	-5.73	112.83	119.70
176	Q2	7	DA	P-O3'-C3'	-5.73	112.83	119.70
212	U2	5	DC	OP1-P-O3'	5.73	117.80	105.20
1	A1	2	DA	P-O3'-C3'	-5.73	112.83	119.70
6	A6	7	DA	P-O3'-C3'	-5.73	112.83	119.70
7	A7	32	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	68	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	278	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	1326	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	2586	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	2802	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	2803	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	3452	DC	OP1-P-O3'	5.73	117.80	105.20
11	AB	3771	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	3931	DA	P-O3'-C3'	-5.73	112.83	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4560	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	4763	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	5225	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	6319	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	6515	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	6747	DA	P-O3'-C3'	-5.73	112.83	119.70
18	B5	17	DC	OP1-P-O3'	5.73	117.80	105.20
28	C3	10	DA	P-O3'-C3'	-5.73	112.83	119.70
30	C6	12	DC	OP1-P-O3'	5.73	117.80	105.20
33	C9	22	DA	P-O3'-C3'	-5.73	112.83	119.70
39	D3	15	DA	P-O3'-C3'	-5.73	112.83	119.70
63	F6	19	DA	P-O3'-C3'	-5.73	112.83	119.70
69	FD	4	DA	P-O3'-C3'	-5.73	112.83	119.70
115	K2	24	DA	P-O3'-C3'	-5.73	112.83	119.70
137	M3	1	DA	P-O3'-C3'	-5.73	112.83	119.70
158	O5	45	DA	P-O3'-C3'	-5.73	112.83	119.70
162	O9	20	DA	P-O3'-C3'	-5.73	112.83	119.70
173	PA	13	DA	P-O3'-C3'	-5.73	112.83	119.70
198	S8	6	DC	OP1-P-O3'	5.73	117.80	105.20
206	T7	48	DA	P-O3'-C3'	-5.73	112.83	119.70
216	U8	2	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	1806	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	2385	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	5079	DC	OP1-P-O3'	5.73	117.80	105.20
11	AB	5326	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	6682	DA	P-O3'-C3'	-5.73	112.83	119.70
32	C8	16	DA	P-O3'-C3'	-5.73	112.83	119.70
114	K1	33	DA	P-O3'-C3'	-5.73	112.83	119.70
148	N5	31	DA	P-O3'-C3'	-5.73	112.83	119.70
157	O3	2	DA	P-O3'-C3'	-5.73	112.83	119.70
158	O5	9	DA	P-O3'-C3'	-5.73	112.83	119.70
11	AB	231	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	1320	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	1516	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	2163	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	2432	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	2513	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	3067	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	3202	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	5688	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	5928	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	6083	DA	P-O3'-C3'	-5.72	112.83	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B1	15	DA	P-O3'-C3'	-5.72	112.83	119.70
15	B2	9	DA	P-O3'-C3'	-5.72	112.83	119.70
65	F8	16	DA	P-O3'-C3'	-5.72	112.83	119.70
87	H8	13	DA	P-O3'-C3'	-5.72	112.83	119.70
92	I1	5	DA	P-O3'-C3'	-5.72	112.83	119.70
93	I2	34	DA	P-O3'-C3'	-5.72	112.83	119.70
122	KA	15	DA	P-O3'-C3'	-5.72	112.83	119.70
132	L9	5	DA	P-O3'-C3'	-5.72	112.83	119.70
141	M8	5	DA	P-O3'-C3'	-5.72	112.83	119.70
155	ND	15	DA	P-O3'-C3'	-5.72	112.83	119.70
160	O7	37	DA	P-O3'-C3'	-5.72	112.83	119.70
167	P3	25	DA	P-O3'-C3'	-5.72	112.83	119.70
181	Q9	3	DA	P-O3'-C3'	-5.72	112.83	119.70
181	Q9	26	DA	P-O3'-C3'	-5.72	112.83	119.70
190	R9	14	DA	P-O3'-C3'	-5.72	112.83	119.70
205	T5	23	DA	P-O3'-C3'	-5.72	112.83	119.70
229	VD	16	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	849	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	1096	DC	OP1-P-O3'	5.72	117.79	105.20
11	AB	1134	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	1515	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	1664	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	2112	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	2361	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	2859	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	2869	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	3416	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	3856	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	3933	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	3981	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	5485	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	6012	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	6481	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	6669	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	6867	DA	P-O3'-C3'	-5.72	112.83	119.70
21	B8	17	DA	P-O3'-C3'	-5.72	112.83	119.70
31	C7	21	DA	P-O3'-C3'	-5.72	112.83	119.70
50	E3	18	DA	P-O3'-C3'	-5.72	112.83	119.70
51	E5	18	DA	P-O3'-C3'	-5.72	112.83	119.70
51	E5	29	DA	P-O3'-C3'	-5.72	112.83	119.70
57	EC	18	DA	P-O3'-C3'	-5.72	112.83	119.70
62	F5	11	DA	P-O3'-C3'	-5.72	112.83	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
73	G5	18	DA	P-O3'-C3'	-5.72	112.83	119.70
79	GC	6	DA	P-O3'-C3'	-5.72	112.83	119.70
94	I3	30	DA	P-O3'-C3'	-5.72	112.83	119.70
98	I8	7	DA	P-O3'-C3'	-5.72	112.83	119.70
98	I8	18	DA	P-O3'-C3'	-5.72	112.83	119.70
122	KA	22	DA	P-O3'-C3'	-5.72	112.83	119.70
135	LD	20	DA	P-O3'-C3'	-5.72	112.83	119.70
137	M3	2	DA	P-O3'-C3'	-5.72	112.83	119.70
153	NA	19	DA	P-O3'-C3'	-5.72	112.83	119.70
206	T7	16	DA	P-O3'-C3'	-5.72	112.83	119.70
206	T7	51	DA	P-O3'-C3'	-5.72	112.83	119.70
226	V9	7	DA	P-O3'-C3'	-5.72	112.83	119.70
228	VC	3	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	690	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	692	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	722	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	1859	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	2731	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	3024	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	4449	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	5312	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	6529	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	6662	DA	P-O3'-C3'	-5.72	112.83	119.70
19	B6	2	DA	P-O3'-C3'	-5.72	112.83	119.70
24	BC	20	DA	P-O3'-C3'	-5.72	112.83	119.70
29	C5	5	DA	P-O3'-C3'	-5.72	112.83	119.70
85	H6	32	DA	P-O3'-C3'	-5.72	112.83	119.70
145	MD	1	DA	P-O3'-C3'	-5.72	112.83	119.70
153	NA	11	DA	P-O3'-C3'	-5.72	112.83	119.70
219	UC	32	DA	P-O3'-C3'	-5.72	112.83	119.70
237	X7	8	DA	P-O3'-C3'	-5.72	112.83	119.70
11	AB	157	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	1005	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	1063	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	1261	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	1791	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	2864	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	3573	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	3592	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	4371	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	5295	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	5647	DA	P-O3'-C3'	-5.72	112.84	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5725	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	6362	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	6441	DA	P-O3'-C3'	-5.72	112.84	119.70
23	BA	12	DA	P-O3'-C3'	-5.72	112.84	119.70
31	C7	9	DA	P-O3'-C3'	-5.72	112.84	119.70
37	D1	39	DA	P-O3'-C3'	-5.72	112.84	119.70
50	E3	13	DA	P-O3'-C3'	-5.72	112.84	119.70
52	E6	11	DA	P-O3'-C3'	-5.72	112.84	119.70
87	H8	9	DA	P-O3'-C3'	-5.72	112.84	119.70
94	I3	34	DA	P-O3'-C3'	-5.72	112.84	119.70
98	I8	29	DA	P-O3'-C3'	-5.72	112.84	119.70
100	IA	17	DA	P-O3'-C3'	-5.72	112.84	119.70
123	KC	7	DA	P-O3'-C3'	-5.72	112.84	119.70
159	O6	21	DA	P-O3'-C3'	-5.72	112.84	119.70
176	Q2	18	DA	P-O3'-C3'	-5.72	112.84	119.70
181	Q9	12	DA	P-O3'-C3'	-5.72	112.84	119.70
190	R9	9	DA	P-O3'-C3'	-5.72	112.84	119.70
193	RD	15	DA	P-O3'-C3'	-5.72	112.84	119.70
207	T8	25	DA	P-O3'-C3'	-5.72	112.84	119.70
236	X5	12	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	615	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	1727	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	2284	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	2370	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	2495	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	3876	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	4050	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	4200	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	6067	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	6390	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	7143	DA	P-O3'-C3'	-5.72	112.84	119.70
38	D2	7	DA	P-O3'-C3'	-5.72	112.84	119.70
116	K3	17	DA	P-O3'-C3'	-5.72	112.84	119.70
161	O8	2	DA	P-O3'-C3'	-5.72	112.84	119.70
173	PA	1	DA	P-O3'-C3'	-5.72	112.84	119.70
176	Q2	5	DA	P-O3'-C3'	-5.72	112.84	119.70
202	SD	7	DA	P-O3'-C3'	-5.72	112.84	119.70
228	VC	22	DA	P-O3'-C3'	-5.72	112.84	119.70
230	W3	43	DA	P-O3'-C3'	-5.72	112.84	119.70
1	A1	8	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	985	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	1728	DA	P-O3'-C3'	-5.72	112.84	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2358	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	3188	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	4669	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	4852	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	5950	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	6247	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	7106	DA	P-O3'-C3'	-5.72	112.84	119.70
34	CA	4	DA	P-O3'-C3'	-5.72	112.84	119.70
46	DC	11	DA	P-O3'-C3'	-5.72	112.84	119.70
64	F7	9	DA	P-O3'-C3'	-5.72	112.84	119.70
65	F8	13	DA	P-O3'-C3'	-5.72	112.84	119.70
69	FD	20	DA	P-O3'-C3'	-5.72	112.84	119.70
69	FD	24	DA	P-O3'-C3'	-5.72	112.84	119.70
71	G2	11	DA	P-O3'-C3'	-5.72	112.84	119.70
85	H6	12	DA	P-O3'-C3'	-5.72	112.84	119.70
105	J3	10	DA	P-O3'-C3'	-5.72	112.84	119.70
106	J5	18	DA	P-O3'-C3'	-5.72	112.84	119.70
107	J6	8	DA	P-O3'-C3'	-5.72	112.84	119.70
130	L7	26	DA	P-O3'-C3'	-5.72	112.84	119.70
136	M2	14	DA	P-O3'-C3'	-5.72	112.84	119.70
137	M3	6	DA	P-O3'-C3'	-5.72	112.84	119.70
157	O3	13	DA	P-O3'-C3'	-5.72	112.84	119.70
160	O7	34	DA	P-O3'-C3'	-5.72	112.84	119.70
161	O8	10	DA	P-O3'-C3'	-5.72	112.84	119.70
161	O8	39	DA	P-O3'-C3'	-5.72	112.84	119.70
175	PD	3	DA	P-O3'-C3'	-5.72	112.84	119.70
176	Q2	22	DA	P-O3'-C3'	-5.72	112.84	119.70
185	R2	6	DA	P-O3'-C3'	-5.72	112.84	119.70
194	S2	6	DA	P-O3'-C3'	-5.72	112.84	119.70
195	S3	16	DA	P-O3'-C3'	-5.72	112.84	119.70
206	T7	43	DA	P-O3'-C3'	-5.72	112.84	119.70
215	U7	1	DA	P-O3'-C3'	-5.72	112.84	119.70
223	V5	16	DA	P-O3'-C3'	-5.72	112.84	119.70
233	W8	11	DA	P-O3'-C3'	-5.72	112.84	119.70
11	AB	217	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	1761	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	2004	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	2269	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	2471	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	2998	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	3198	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	3274	DA	P-O3'-C3'	-5.71	112.84	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3594	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	3784	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	4387	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	4439	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	5649	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	6092	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	6402	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	6625	DA	P-O3'-C3'	-5.71	112.84	119.70
25	BD	15	DA	P-O3'-C3'	-5.71	112.84	119.70
29	C5	12	DA	P-O3'-C3'	-5.71	112.84	119.70
59	F1	15	DA	P-O3'-C3'	-5.71	112.84	119.70
95	I5	19	DA	P-O3'-C3'	-5.71	112.84	119.70
121	K9	11	DA	P-O3'-C3'	-5.71	112.84	119.70
126	L2	49	DA	P-O3'-C3'	-5.71	112.84	119.70
158	O5	38	DA	P-O3'-C3'	-5.71	112.84	119.70
180	Q8	7	DA	P-O3'-C3'	-5.71	112.84	119.70
184	QD	17	DA	P-O3'-C3'	-5.71	112.84	119.70
223	V5	28	DA	P-O3'-C3'	-5.71	112.84	119.70
225	V8	14	DA	P-O3'-C3'	-5.71	112.84	119.70
7	A7	17	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	747	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	838	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	2865	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	3225	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	4045	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	5668	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	6295	DA	P-O3'-C3'	-5.71	112.84	119.70
13	AD	6	DA	P-O3'-C3'	-5.71	112.84	119.70
80	GD	10	DA	P-O3'-C3'	-5.71	112.84	119.70
102	ID	28	DA	P-O3'-C3'	-5.71	112.84	119.70
138	M5	34	DA	P-O3'-C3'	-5.71	112.84	119.70
213	U3	23	DA	P-O3'-C3'	-5.71	112.84	119.70
222	V3	13	DA	P-O3'-C3'	-5.71	112.84	119.70
4	A4	18	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2002	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2320	DA	P-O3'-C3'	-5.71	112.84	119.70
11	AB	2872	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	3078	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	3205	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	3735	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	4266	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	4989	DA	P-O3'-C3'	-5.71	112.84	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6066	DA	P-O3'-C3'	-5.71	112.85	119.70
19	B6	5	DA	P-O3'-C3'	-5.71	112.85	119.70
19	B6	19	DA	P-O3'-C3'	-5.71	112.85	119.70
25	BD	13	DA	P-O3'-C3'	-5.71	112.85	119.70
69	FD	19	DA	P-O3'-C3'	-5.71	112.85	119.70
69	FD	23	DA	P-O3'-C3'	-5.71	112.85	119.70
83	H3	40	DA	P-O3'-C3'	-5.71	112.84	119.70
107	J6	13	DA	P-O3'-C3'	-5.71	112.85	119.70
114	K1	29	DA	P-O3'-C3'	-5.71	112.85	119.70
130	L7	52	DA	P-O3'-C3'	-5.71	112.85	119.70
137	M3	11	DA	P-O3'-C3'	-5.71	112.85	119.70
142	M9	15	DA	P-O3'-C3'	-5.71	112.85	119.70
145	MD	6	DA	P-O3'-C3'	-5.71	112.85	119.70
145	MD	43	DA	P-O3'-C3'	-5.71	112.85	119.70
158	O5	10	DA	P-O3'-C3'	-5.71	112.85	119.70
162	O9	10	DA	P-O3'-C3'	-5.71	112.85	119.70
198	S8	20	DA	P-O3'-C3'	-5.71	112.85	119.70
221	V2	9	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	786	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2921	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	4475	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	4780	DA	P-O3'-C3'	-5.71	112.85	119.70
25	BD	20	DA	P-O3'-C3'	-5.71	112.85	119.70
70	G1	18	DA	P-O3'-C3'	-5.71	112.85	119.70
132	L9	6	DA	P-O3'-C3'	-5.71	112.85	119.70
141	M8	23	DA	P-O3'-C3'	-5.71	112.85	119.70
196	S5	27	DA	P-O3'-C3'	-5.71	112.85	119.70
201	SC	14	DA	P-O3'-C3'	-5.71	112.85	119.70
210	TC	25	DA	P-O3'-C3'	-5.71	112.85	119.70
10	AA	13	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	465	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2699	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2777	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2908	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2980	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	3250	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	3932	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	3970	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	3972	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	4351	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	4418	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	4893	DA	P-O3'-C3'	-5.71	112.85	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5293	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	5561	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	5911	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	5978	DA	P-O3'-C3'	-5.71	112.85	119.70
58	ED	13	DA	P-O3'-C3'	-5.71	112.85	119.70
75	G7	8	DA	P-O3'-C3'	-5.71	112.85	119.70
76	G8	10	DA	P-O3'-C3'	-5.71	112.85	119.70
95	I5	8	DA	P-O3'-C3'	-5.71	112.85	119.70
107	J6	4	DA	P-O3'-C3'	-5.71	112.85	119.70
125	L1	34	DA	P-O3'-C3'	-5.71	112.85	119.70
134	LC	14	DA	P-O3'-C3'	-5.71	112.85	119.70
148	N5	22	DA	P-O3'-C3'	-5.71	112.85	119.70
153	NA	18	DA	P-O3'-C3'	-5.71	112.85	119.70
165	OD	41	DA	P-O3'-C3'	-5.71	112.85	119.70
198	S8	22	DA	P-O3'-C3'	-5.71	112.85	119.70
209	TA	37	DA	P-O3'-C3'	-5.71	112.85	119.70
214	U5	36	DA	P-O3'-C3'	-5.71	112.85	119.70
226	V9	1	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	230	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	352	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	691	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	1291	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	1325	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2500	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2790	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2794	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2987	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	3049	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	3593	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	5539	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	5667	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	5821	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	5910	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	6213	DA	P-O3'-C3'	-5.71	112.85	119.70
14	B1	24	DA	P-O3'-C3'	-5.71	112.85	119.70
30	C6	1	DA	P-O3'-C3'	-5.71	112.85	119.70
40	D5	7	DA	P-O3'-C3'	-5.71	112.85	119.70
44	D9	2	DA	P-O3'-C3'	-5.71	112.85	119.70
62	F5	23	DA	P-O3'-C3'	-5.71	112.85	119.70
66	F9	10	DA	P-O3'-C3'	-5.71	112.85	119.70
79	GC	9	DA	P-O3'-C3'	-5.71	112.85	119.70
85	H6	33	DA	P-O3'-C3'	-5.71	112.85	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
88	H9	24	DA	P-O3'-C3'	-5.71	112.85	119.70
89	HA	29	DA	P-O3'-C3'	-5.71	112.85	119.70
101	IC	10	DA	P-O3'-C3'	-5.71	112.85	119.70
110	J9	11	DA	P-O3'-C3'	-5.71	112.85	119.70
113	JD	8	DA	P-O3'-C3'	-5.71	112.85	119.70
130	L7	58	DA	P-O3'-C3'	-5.71	112.85	119.70
152	N9	51	DA	P-O3'-C3'	-5.71	112.85	119.70
158	O5	42	DA	P-O3'-C3'	-5.71	112.85	119.70
178	Q5	1	DA	P-O3'-C3'	-5.71	112.85	119.70
195	S3	15	DA	P-O3'-C3'	-5.71	112.85	119.70
232	W7	7	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	297	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	724	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	2463	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	3700	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	4652	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	4894	DA	P-O3'-C3'	-5.71	112.86	119.70
11	AB	5107	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	5309	DA	P-O3'-C3'	-5.71	112.85	119.70
11	AB	5612	DA	P-O3'-C3'	-5.71	112.85	119.70
14	B1	16	DA	P-O3'-C3'	-5.71	112.85	119.70
107	J6	9	DA	P-O3'-C3'	-5.71	112.85	119.70
126	L2	37	DA	P-O3'-C3'	-5.71	112.85	119.70
130	L7	47	DA	P-O3'-C3'	-5.71	112.85	119.70
139	M6	11	DA	P-O3'-C3'	-5.71	112.85	119.70
149	N6	43	DA	P-O3'-C3'	-5.71	112.85	119.70
163	OA	5	DA	P-O3'-C3'	-5.71	112.85	119.70
236	X5	13	DA	P-O3'-C3'	-5.71	112.85	119.70
10	AA	24	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	147	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	401	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	552	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	995	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	1186	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	1423	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	1839	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	2304	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	2491	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	2661	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	4046	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	5872	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	6055	DA	P-O3'-C3'	-5.70	112.86	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B5	31	DA	P-O3'-C3'	-5.70	112.86	119.70
22	B9	51	DA	P-O3'-C3'	-5.70	112.86	119.70
42	D7	2	DA	P-O3'-C3'	-5.70	112.86	119.70
62	F5	1	DA	P-O3'-C3'	-5.70	112.86	119.70
81	H1	16	DA	P-O3'-C3'	-5.70	112.86	119.70
83	H3	32	DA	P-O3'-C3'	-5.70	112.86	119.70
87	H8	22	DA	P-O3'-C3'	-5.70	112.86	119.70
95	I5	20	DA	P-O3'-C3'	-5.70	112.86	119.70
112	JC	24	DA	P-O3'-C3'	-5.70	112.86	119.70
114	K1	18	DA	P-O3'-C3'	-5.70	112.86	119.70
152	N9	7	DA	P-O3'-C3'	-5.70	112.86	119.70
156	O2	15	DA	P-O3'-C3'	-5.70	112.86	119.70
173	PA	30	DA	P-O3'-C3'	-5.70	112.86	119.70
173	PA	33	DA	P-O3'-C3'	-5.70	112.86	119.70
174	PC	16	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	6048	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	6536	DA	P-O3'-C3'	-5.70	112.86	119.70
26	C1	8	DA	P-O3'-C3'	-5.70	112.86	119.70
32	C8	20	DA	P-O3'-C3'	-5.70	112.86	119.70
113	JD	17	DA	P-O3'-C3'	-5.70	112.86	119.70
115	K2	34	DA	P-O3'-C3'	-5.70	112.86	119.70
148	N5	27	DA	P-O3'-C3'	-5.70	112.86	119.70
201	SC	13	DA	P-O3'-C3'	-5.70	112.86	119.70
205	T5	11	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	88	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	155	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	400	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	986	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	1035	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	1792	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	2070	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	2305	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	2324	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	2631	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	3079	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	3265	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	3634	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	5888	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	6013	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	6814	DA	P-O3'-C3'	-5.70	112.86	119.70
15	B2	5	DA	P-O3'-C3'	-5.70	112.86	119.70
47	DD	12	DA	P-O3'-C3'	-5.70	112.86	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
59	F1	14	DA	P-O3'-C3'	-5.70	112.86	119.70
74	G6	17	DA	P-O3'-C3'	-5.70	112.86	119.70
81	H1	15	DA	P-O3'-C3'	-5.70	112.86	119.70
93	I2	6	DA	P-O3'-C3'	-5.70	112.86	119.70
106	J5	36	DA	P-O3'-C3'	-5.70	112.86	119.70
158	O5	11	DA	P-O3'-C3'	-5.70	112.86	119.70
162	O9	21	DA	P-O3'-C3'	-5.70	112.86	119.70
164	OC	21	DA	P-O3'-C3'	-5.70	112.86	119.70
165	OD	12	DA	P-O3'-C3'	-5.70	112.86	119.70
165	OD	36	DA	P-O3'-C3'	-5.70	112.86	119.70
178	Q5	16	DA	P-O3'-C3'	-5.70	112.86	119.70
184	QD	25	DA	P-O3'-C3'	-5.70	112.86	119.70
196	S5	10	DA	P-O3'-C3'	-5.70	112.86	119.70
219	UC	33	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	96	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	106	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	154	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	723	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	1858	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	1918	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	2601	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	3171	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	5343	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	6868	DA	P-O3'-C3'	-5.70	112.86	119.70
47	DD	23	DA	P-O3'-C3'	-5.70	112.86	119.70
47	DD	31	DA	P-O3'-C3'	-5.70	112.86	119.70
84	H5	10	DA	P-O3'-C3'	-5.70	112.86	119.70
91	HD	5	DA	P-O3'-C3'	-5.70	112.86	119.70
92	I1	11	DA	P-O3'-C3'	-5.70	112.86	119.70
103	J1	20	DA	P-O3'-C3'	-5.70	112.86	119.70
104	J2	34	DA	P-O3'-C3'	-5.70	112.86	119.70
121	K9	12	DA	P-O3'-C3'	-5.70	112.86	119.70
141	M8	6	DA	P-O3'-C3'	-5.70	112.86	119.70
155	ND	8	DA	P-O3'-C3'	-5.70	112.86	119.70
176	Q2	21	DA	P-O3'-C3'	-5.70	112.86	119.70
214	U5	33	DA	P-O3'-C3'	-5.70	112.86	119.70
226	V9	5	DA	P-O3'-C3'	-5.70	112.86	119.70
229	VD	13	DA	P-O3'-C3'	-5.70	112.86	119.70
1	A1	32	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	246	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	2007	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	4878	DA	P-O3'-C3'	-5.70	112.86	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6296	DA	P-O3'-C3'	-5.70	112.86	119.70
104	J2	33	DA	P-O3'-C3'	-5.70	112.86	119.70
171	P8	15	DA	P-O3'-C3'	-5.70	112.86	119.70
205	T5	12	DA	P-O3'-C3'	-5.70	112.86	119.70
209	TA	36	DA	P-O3'-C3'	-5.70	112.86	119.70
235	WD	14	DA	P-O3'-C3'	-5.70	112.86	119.70
238	X9	28	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	232	DA	P-O3'-C3'	-5.70	112.87	119.70
11	AB	268	DA	P-O3'-C3'	-5.70	112.87	119.70
11	AB	276	DA	P-O3'-C3'	-5.70	112.87	119.70
11	AB	513	DA	P-O3'-C3'	-5.70	112.87	119.70
11	AB	1919	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	4207	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	4895	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	5108	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	5337	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	5352	DA	P-O3'-C3'	-5.70	112.86	119.70
17	B4	8	DA	P-O3'-C3'	-5.70	112.86	119.70
22	B9	26	DA	P-O3'-C3'	-5.70	112.87	119.70
24	BC	13	DA	P-O3'-C3'	-5.70	112.86	119.70
30	C6	38	DA	P-O3'-C3'	-5.70	112.87	119.70
50	E3	9	DA	P-O3'-C3'	-5.70	112.86	119.70
66	F9	9	DA	P-O3'-C3'	-5.70	112.87	119.70
69	FD	41	DA	P-O3'-C3'	-5.70	112.86	119.70
71	G2	18	DA	P-O3'-C3'	-5.70	112.86	119.70
83	H3	33	DA	P-O3'-C3'	-5.70	112.86	119.70
85	H6	3	DA	P-O3'-C3'	-5.70	112.86	119.70
95	I5	27	DA	P-O3'-C3'	-5.70	112.86	119.70
97	I7	18	DA	P-O3'-C3'	-5.70	112.86	119.70
101	IC	14	DA	P-O3'-C3'	-5.70	112.87	119.70
130	L7	8	DA	P-O3'-C3'	-5.70	112.86	119.70
131	L8	22	DA	P-O3'-C3'	-5.70	112.86	119.70
138	M5	33	DA	P-O3'-C3'	-5.70	112.86	119.70
145	MD	8	DA	P-O3'-C3'	-5.70	112.87	119.70
145	MD	18	DA	P-O3'-C3'	-5.70	112.86	119.70
145	MD	36	DA	P-O3'-C3'	-5.70	112.86	119.70
149	N6	27	DA	P-O3'-C3'	-5.70	112.87	119.70
153	NA	10	DA	P-O3'-C3'	-5.70	112.87	119.70
156	O2	36	DA	P-O3'-C3'	-5.70	112.86	119.70
186	R3	9	DA	P-O3'-C3'	-5.70	112.87	119.70
214	U5	32	DA	P-O3'-C3'	-5.70	112.86	119.70
228	VC	15	DA	P-O3'-C3'	-5.70	112.87	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
230	W3	20	DA	P-O3'-C3'	-5.70	112.87	119.70
232	W7	8	DA	P-O3'-C3'	-5.70	112.86	119.70
11	AB	353	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	4578	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	4651	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	5043	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	5957	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	6388	DA	P-O3'-C3'	-5.69	112.87	119.70
35	CC	23	DA	P-O3'-C3'	-5.69	112.87	119.70
61	F3	11	DA	P-O3'-C3'	-5.69	112.87	119.70
108	J7	1	DA	P-O3'-C3'	-5.69	112.87	119.70
161	O8	40	DA	P-O3'-C3'	-5.69	112.87	119.70
179	Q7	8	DA	P-O3'-C3'	-5.69	112.87	119.70
181	Q9	4	DA	P-O3'-C3'	-5.69	112.87	119.70
202	SD	24	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	1764	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	2789	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	2948	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	2988	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	4023	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	4474	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	4527	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	6608	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	6974	DA	P-O3'-C3'	-5.69	112.87	119.70
29	C5	11	DA	P-O3'-C3'	-5.69	112.87	119.70
35	CC	20	DA	P-O3'-C3'	-5.69	112.87	119.70
41	D6	42	DA	P-O3'-C3'	-5.69	112.87	119.70
103	J1	5	DA	P-O3'-C3'	-5.69	112.87	119.70
108	J7	40	DA	P-O3'-C3'	-5.69	112.87	119.70
113	JD	6	DA	P-O3'-C3'	-5.69	112.87	119.70
114	K1	32	DA	P-O3'-C3'	-5.69	112.87	119.70
140	M7	24	DA	P-O3'-C3'	-5.69	112.87	119.70
143	MA	28	DA	P-O3'-C3'	-5.69	112.87	119.70
165	OD	2	DA	P-O3'-C3'	-5.69	112.87	119.70
186	R3	8	DA	P-O3'-C3'	-5.69	112.87	119.70
193	RD	14	DA	P-O3'-C3'	-5.69	112.87	119.70
211	TD	27	DA	P-O3'-C3'	-5.69	112.87	119.70
221	V2	13	DA	P-O3'-C3'	-5.69	112.87	119.70
2	A2	30	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	245	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	1034	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	1056	DA	P-O3'-C3'	-5.69	112.87	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1760	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	2008	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	2049	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	3808	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	5887	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	6152	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	6655	DA	P-O3'-C3'	-5.69	112.87	119.70
14	B1	25	DA	P-O3'-C3'	-5.69	112.87	119.70
38	D2	4	DA	P-O3'-C3'	-5.69	112.87	119.70
55	E9	26	DA	P-O3'-C3'	-5.69	112.87	119.70
95	I5	1	DA	P-O3'-C3'	-5.69	112.87	119.70
98	I8	17	DA	P-O3'-C3'	-5.69	112.87	119.70
106	J5	35	DA	P-O3'-C3'	-5.69	112.87	119.70
108	J7	48	DA	P-O3'-C3'	-5.69	112.87	119.70
140	M7	19	DA	P-O3'-C3'	-5.69	112.87	119.70
141	M8	7	DA	P-O3'-C3'	-5.69	112.87	119.70
148	N5	26	DA	P-O3'-C3'	-5.69	112.87	119.70
165	OD	23	DA	P-O3'-C3'	-5.69	112.87	119.70
210	TC	19	DA	P-O3'-C3'	-5.69	112.87	119.70
229	VD	1	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	110	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	111	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	466	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	1651	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	3298	DA	P-O3'-C3'	-5.69	112.87	119.70
33	C9	10	DA	P-O3'-C3'	-5.69	112.87	119.70
6	A6	11	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	153	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	987	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	2946	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	3073	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	3136	DA	P-O3'-C3'	-5.69	112.87	119.70
11	AB	4022	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	6287	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	6921	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	6925	DA	P-O3'-C3'	-5.69	112.87	119.70
26	C1	9	DA	P-O3'-C3'	-5.69	112.88	119.70
31	C7	1	DA	P-O3'-C3'	-5.69	112.88	119.70
84	H5	17	DA	P-O3'-C3'	-5.69	112.88	119.70
97	I7	16	DA	P-O3'-C3'	-5.69	112.88	119.70
100	IA	16	DA	P-O3'-C3'	-5.69	112.87	119.70
107	J6	37	DA	P-O3'-C3'	-5.69	112.88	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	L6	11	DA	P-O3'-C3'	-5.69	112.88	119.70
130	L7	43	DA	P-O3'-C3'	-5.69	112.88	119.70
140	M7	23	DA	P-O3'-C3'	-5.69	112.88	119.70
201	SC	7	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	156	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	753	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	1203	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	1617	DA	P-O3'-C3'	-5.69	112.88	119.70
34	CA	8	DA	P-O3'-C3'	-5.69	112.88	119.70
69	FD	6	DA	P-O3'-C3'	-5.69	112.88	119.70
83	H3	20	DA	P-O3'-C3'	-5.69	112.88	119.70
98	I8	14	DA	P-O3'-C3'	-5.69	112.88	119.70
158	O5	28	DA	P-O3'-C3'	-5.69	112.88	119.70
184	QD	24	DA	P-O3'-C3'	-5.69	112.88	119.70
187	R5	2	DA	P-O3'-C3'	-5.69	112.88	119.70
11	AB	71	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	318	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	1178	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	2009	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	2010	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	2632	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	2779	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	4370	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	4586	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	5665	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	6109	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	6389	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	6697	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	7023	DA	P-O3'-C3'	-5.68	112.88	119.70
23	BA	11	DA	P-O3'-C3'	-5.68	112.88	119.70
24	BC	19	DA	P-O3'-C3'	-5.68	112.88	119.70
30	C6	34	DA	P-O3'-C3'	-5.68	112.88	119.70
53	E7	23	DA	P-O3'-C3'	-5.68	112.88	119.70
70	G1	11	DA	P-O3'-C3'	-5.68	112.88	119.70
71	G2	15	DA	P-O3'-C3'	-5.68	112.88	119.70
75	G7	17	DA	P-O3'-C3'	-5.68	112.88	119.70
125	L1	8	DA	P-O3'-C3'	-5.68	112.88	119.70
126	L2	6	DA	P-O3'-C3'	-5.68	112.88	119.70
161	O8	44	DA	P-O3'-C3'	-5.68	112.88	119.70
227	VA	14	DA	P-O3'-C3'	-5.68	112.88	119.70
233	W8	10	DA	P-O3'-C3'	-5.68	112.88	119.70
238	X9	15	DA	P-O3'-C3'	-5.68	112.88	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
238	X9	29	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	84	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	1170	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	1413	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	1917	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	3216	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	3239	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	4962	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	6530	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	7142	DA	P-O3'-C3'	-5.68	112.88	119.70
23	BA	19	DA	P-O3'-C3'	-5.68	112.88	119.70
26	C1	17	DA	P-O3'-C3'	-5.68	112.88	119.70
34	CA	9	DA	P-O3'-C3'	-5.68	112.88	119.70
82	H2	51	DA	P-O3'-C3'	-5.68	112.88	119.70
114	K1	11	DA	P-O3'-C3'	-5.68	112.88	119.70
131	L8	19	DA	P-O3'-C3'	-5.68	112.88	119.70
131	L8	21	DA	P-O3'-C3'	-5.68	112.88	119.70
190	R9	26	DA	P-O3'-C3'	-5.68	112.88	119.70
195	S3	17	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	6085	DA	P-O3'-C3'	-5.68	112.88	119.70
18	B5	23	DA	P-O3'-C3'	-5.68	112.88	119.70
37	D1	40	DA	P-O3'-C3'	-5.68	112.88	119.70
41	D6	23	DA	P-O3'-C3'	-5.68	112.88	119.70
131	L8	20	DA	P-O3'-C3'	-5.68	112.88	119.70
173	PA	12	DA	P-O3'-C3'	-5.68	112.88	119.70
234	W9	3	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	46	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	97	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	2784	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	3861	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	4555	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	4561	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	5055	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	5335	DA	P-O3'-C3'	-5.68	112.88	119.70
41	D6	11	DA	P-O3'-C3'	-5.68	112.88	119.70
68	FC	1	DA	P-O3'-C3'	-5.68	112.89	119.70
78	GA	17	DA	P-O3'-C3'	-5.68	112.88	119.70
104	J2	39	DA	P-O3'-C3'	-5.68	112.89	119.70
113	JD	18	DA	P-O3'-C3'	-5.68	112.89	119.70
132	L9	4	DA	P-O3'-C3'	-5.68	112.89	119.70
146	N2	9	DA	P-O3'-C3'	-5.68	112.89	119.70
173	PA	26	DA	P-O3'-C3'	-5.68	112.89	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
194	S2	23	DA	P-O3'-C3'	-5.68	112.88	119.70
11	AB	277	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	1889	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	3082	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	5250	DA	P-O3'-C3'	-5.68	112.89	119.70
33	C9	16	DA	P-O3'-C3'	-5.68	112.89	119.70
82	H2	41	DA	P-O3'-C3'	-5.68	112.89	119.70
82	H2	52	DA	P-O3'-C3'	-5.68	112.89	119.70
149	N6	33	DA	P-O3'-C3'	-5.68	112.89	119.70
158	O5	24	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	59	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	1023	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	1735	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	2775	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	2776	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	2778	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	4559	DA	P-O3'-C3'	-5.68	112.89	119.70
11	AB	5332	DA	P-O3'-C3'	-5.68	112.89	119.70
24	BC	25	DA	P-O3'-C3'	-5.68	112.89	119.70
32	C8	6	DA	P-O3'-C3'	-5.68	112.89	119.70
48	E1	28	DA	P-O3'-C3'	-5.68	112.89	119.70
76	G8	9	DA	P-O3'-C3'	-5.68	112.89	119.70
145	MD	56	DA	P-O3'-C3'	-5.68	112.89	119.70
148	N5	19	DA	P-O3'-C3'	-5.68	112.89	119.70
157	O3	14	DA	P-O3'-C3'	-5.68	112.89	119.70
179	Q7	26	DA	P-O3'-C3'	-5.68	112.89	119.70
229	VD	11	DA	P-O3'-C3'	-5.68	112.89	119.70
6	A6	12	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	1483	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	3538	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	4585	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	6199	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	7008	DA	P-O3'-C3'	-5.67	112.89	119.70
33	C9	24	DA	P-O3'-C3'	-5.67	112.89	119.70
82	H2	23	DA	P-O3'-C3'	-5.67	112.89	119.70
106	J5	16	DA	P-O3'-C3'	-5.67	112.89	119.70
205	T5	10	DA	P-O3'-C3'	-5.67	112.89	119.70
229	VD	12	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	1900	DA	P-O3'-C3'	-5.67	112.89	119.70
100	IA	18	DA	P-O3'-C3'	-5.67	112.89	119.70
104	J2	23	DA	P-O3'-C3'	-5.67	112.89	119.70
121	K9	28	DA	P-O3'-C3'	-5.67	112.89	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
172	P9	7	DA	P-O3'-C3'	-5.67	112.89	119.70
191	RA	21	DA	P-O3'-C3'	-5.67	112.89	119.70
238	X9	51	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	4911	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	6044	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	6361	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	6562	DA	P-O3'-C3'	-5.67	112.89	119.70
11	AB	6677	DA	P-O3'-C3'	-5.67	112.89	119.70
33	C9	23	DA	P-O3'-C3'	-5.67	112.89	119.70
108	J7	47	DA	P-O3'-C3'	-5.67	112.89	119.70
113	JD	35	DA	P-O3'-C3'	-5.67	112.89	119.70
142	M9	19	DA	P-O3'-C3'	-5.67	112.89	119.70
108	J7	9	DA	P-O3'-C3'	-5.67	112.90	119.70
233	W8	9	DA	P-O3'-C3'	-5.67	112.90	119.70
2	A2	19	DA	P-O3'-C3'	-5.67	112.90	119.70
11	AB	1033	DA	P-O3'-C3'	-5.67	112.90	119.70
11	AB	1699	DA	P-O3'-C3'	-5.67	112.90	119.70
11	AB	2464	DA	P-O3'-C3'	-5.67	112.90	119.70
11	AB	5974	DA	P-O3'-C3'	-5.67	112.90	119.70
11	AB	6544	DA	P-O3'-C3'	-5.67	112.90	119.70
119	K7	14	DA	P-O3'-C3'	-5.67	112.90	119.70
122	KA	23	DA	P-O3'-C3'	-5.67	112.90	119.70
124	KD	17	DA	P-O3'-C3'	-5.67	112.90	119.70
165	OD	40	DA	P-O3'-C3'	-5.67	112.90	119.70
190	R9	17	DA	P-O3'-C3'	-5.67	112.90	119.70
206	T7	18	DA	P-O3'-C3'	-5.67	112.90	119.70
210	TC	20	DA	P-O3'-C3'	-5.67	112.90	119.70
11	AB	2947	DA	P-O3'-C3'	-5.67	112.90	119.70
11	AB	3481	DA	P-O3'-C3'	-5.67	112.90	119.70
11	AB	5841	DA	P-O3'-C3'	-5.67	112.90	119.70
24	BC	24	DA	P-O3'-C3'	-5.67	112.90	119.70
137	M3	18	DA	P-O3'-C3'	-5.67	112.90	119.70
137	M3	19	DA	P-O3'-C3'	-5.67	112.90	119.70
192	RC	13	DA	P-O3'-C3'	-5.67	112.90	119.70
11	AB	7124	DA	P-O3'-C3'	-5.67	112.90	119.70
11	AB	1880	DA	P-O3'-C3'	-5.66	112.90	119.70
11	AB	2386	DA	P-O3'-C3'	-5.66	112.90	119.70
11	AB	3734	DA	P-O3'-C3'	-5.66	112.90	119.70
11	AB	5263	DA	P-O3'-C3'	-5.66	112.90	119.70
11	AB	6641	DA	P-O3'-C3'	-5.66	112.90	119.70
11	AB	6781	DA	P-O3'-C3'	-5.66	112.90	119.70
29	C5	28	DA	P-O3'-C3'	-5.66	112.90	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	E6	8	DA	P-O3'-C3'	-5.66	112.91	119.70
64	F7	10	DA	P-O3'-C3'	-5.66	112.91	119.70
94	I3	15	DA	P-O3'-C3'	-5.66	112.90	119.70
159	O6	18	DA	P-O3'-C3'	-5.66	112.90	119.70
174	PC	15	DA	P-O3'-C3'	-5.66	112.91	119.70
11	AB	3883	DA	P-O3'-C3'	-5.66	112.91	119.70
49	E2	36	DA	P-O3'-C3'	-5.66	112.91	119.70
11	AB	1214	DA	P-O3'-C3'	-5.66	112.91	119.70
11	AB	4556	DA	P-O3'-C3'	-5.66	112.91	119.70
11	AB	5357	DA	P-O3'-C3'	-5.66	112.91	119.70
126	L2	54	DA	P-O3'-C3'	-5.66	112.91	119.70
152	N9	32	DA	P-O3'-C3'	-5.66	112.91	119.70
175	PD	12	DA	P-O3'-C3'	-5.66	112.91	119.70
181	Q9	5	DA	P-O3'-C3'	-5.66	112.91	119.70
195	S3	9	DA	P-O3'-C3'	-5.66	112.91	119.70
11	AB	72	DA	P-O3'-C3'	-5.66	112.91	119.70
11	AB	550	DA	P-O3'-C3'	-5.66	112.91	119.70
11	AB	3736	DA	P-O3'-C3'	-5.66	112.91	119.70
102	ID	19	DA	P-O3'-C3'	-5.66	112.91	119.70
176	Q2	6	DA	P-O3'-C3'	-5.66	112.91	119.70
1	A1	46	DA	P-O3'-C3'	-5.66	112.91	119.70
11	AB	3372	DA	P-O3'-C3'	-5.66	112.91	119.70
41	D6	10	DA	P-O3'-C3'	-5.66	112.91	119.70
41	D6	24	DA	P-O3'-C3'	-5.66	112.91	119.70
69	FD	18	DA	P-O3'-C3'	-5.66	112.91	119.70
130	L7	15	DA	P-O3'-C3'	-5.66	112.91	119.70
160	O7	6	DA	P-O3'-C3'	-5.66	112.91	119.70
185	R2	9	DA	P-O3'-C3'	-5.66	112.91	119.70
11	AB	5336	DA	P-O3'-C3'	-5.65	112.92	119.70
11	AB	5406	DA	P-O3'-C3'	-5.65	112.92	119.70
112	JC	8	DA	P-O3'-C3'	-5.65	112.92	119.70
172	P9	8	DA	P-O3'-C3'	-5.65	112.92	119.70
11	AB	1869	DA	P-O3'-C3'	-5.65	112.92	119.70
11	AB	2895	DA	P-O3'-C3'	-5.65	112.92	119.70
126	L2	12	DA	P-O3'-C3'	-5.65	112.92	119.70
165	OD	37	DA	P-O3'-C3'	-5.65	112.92	119.70
213	U3	8	DA	P-O3'-C3'	-5.65	112.92	119.70
11	AB	1177	DA	P-O3'-C3'	-5.65	112.92	119.70
11	AB	3357	DA	P-O3'-C3'	-5.65	112.92	119.70
11	AB	5961	DA	P-O3'-C3'	-5.65	112.92	119.70
14	B1	23	DA	P-O3'-C3'	-5.65	112.92	119.70
145	MD	19	DA	P-O3'-C3'	-5.65	112.92	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2219	DA	P-O3'-C3'	-5.65	112.92	119.70
11	AB	3266	DA	P-O3'-C3'	-5.65	112.92	119.70
11	AB	5056	DA	P-O3'-C3'	-5.65	112.92	119.70
156	O2	20	DA	P-O3'-C3'	-5.65	112.92	119.70
11	AB	5358	DA	P-O3'-C3'	-5.64	112.93	119.70
11	AB	6691	DA	P-O3'-C3'	-5.64	112.93	119.70
102	ID	18	DA	P-O3'-C3'	-5.64	112.93	119.70
132	L9	9	DA	P-O3'-C3'	-5.64	112.93	119.70
176	Q2	8	DA	P-O3'-C3'	-5.64	112.93	119.70
1	A1	43	DA	P-O3'-C3'	-5.64	112.93	119.70
11	AB	1290	DA	P-O3'-C3'	-5.64	112.93	119.70
11	AB	7022	DA	P-O3'-C3'	-5.64	112.93	119.70
39	D3	14	DA	P-O3'-C3'	-5.64	112.93	119.70
11	AB	3256	DA	P-O3'-C3'	-5.64	112.94	119.70
11	AB	3591	DA	P-O3'-C3'	-5.64	112.94	119.70
11	AB	754	DA	P-O3'-C3'	-5.63	112.94	119.70
53	E7	18	DA	P-O3'-C3'	-5.63	112.94	119.70
11	AB	3580	DA	P-O3'-C3'	-5.63	112.94	119.70
109	J8	45	DA	P-O3'-C3'	-5.63	112.94	119.70
11	AB	6164	DA	P-O3'-C3'	-5.63	112.95	119.70
11	AB	2501	DA	P-O3'-C3'	-5.60	112.98	119.70
11	AB	5147	DA	P-O3'-C3'	-5.52	113.07	119.70
11	AB	1252	DA	P-O3'-C3'	-5.49	113.11	119.70
86	H7	9	DT	P-O3'-C3'	-5.45	113.16	119.70
11	AB	1865	DA	P-O3'-C3'	-5.45	113.16	119.70
119	K7	19	DT	P-O3'-C3'	-5.43	113.18	119.70
221	V2	17	DT	P-O3'-C3'	-5.43	113.18	119.70
11	AB	4265	DA	P-O3'-C3'	-5.43	113.19	119.70
11	AB	2830	DT	P-O3'-C3'	-5.43	113.19	119.70
11	AB	6343	DT	P-O3'-C3'	-5.43	113.19	119.70
11	AB	4425	DT	P-O3'-C3'	-5.42	113.19	119.70
11	AB	5731	DT	P-O3'-C3'	-5.42	113.19	119.70
11	AB	5834	DT	P-O3'-C3'	-5.42	113.19	119.70
11	AB	6850	DT	P-O3'-C3'	-5.42	113.19	119.70
105	J3	19	DT	P-O3'-C3'	-5.42	113.19	119.70
198	S8	9	DT	P-O3'-C3'	-5.42	113.19	119.70
11	AB	4348	DT	P-O3'-C3'	-5.42	113.19	119.70
11	AB	2158	DT	P-O3'-C3'	-5.42	113.19	119.70
11	AB	1107	DT	P-O3'-C3'	-5.42	113.20	119.70
202	SD	28	DT	P-O3'-C3'	-5.42	113.20	119.70
11	AB	3800	DT	P-O3'-C3'	-5.42	113.20	119.70
11	AB	6174	DT	P-O3'-C3'	-5.42	113.20	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6257	DT	P-O3'-C3'	-5.42	113.20	119.70
115	K2	6	DT	P-O3'-C3'	-5.42	113.20	119.70
11	AB	2197	DT	P-O3'-C3'	-5.42	113.20	119.70
11	AB	5580	DT	P-O3'-C3'	-5.42	113.20	119.70
11	AB	6578	DT	P-O3'-C3'	-5.42	113.20	119.70
204	T3	33	DT	P-O3'-C3'	-5.42	113.20	119.70
11	AB	252	DT	P-O3'-C3'	-5.41	113.20	119.70
11	AB	1780	DT	P-O3'-C3'	-5.41	113.20	119.70
11	AB	2507	DT	P-O3'-C3'	-5.41	113.20	119.70
11	AB	4536	DT	P-O3'-C3'	-5.41	113.20	119.70
11	AB	5905	DT	P-O3'-C3'	-5.41	113.20	119.70
218	UA	1	DT	P-O3'-C3'	-5.41	113.20	119.70
11	AB	5270	DT	P-O3'-C3'	-5.41	113.21	119.70
11	AB	431	DT	P-O3'-C3'	-5.41	113.21	119.70
11	AB	1512	DT	P-O3'-C3'	-5.41	113.21	119.70
192	RC	31	DT	P-O3'-C3'	-5.41	113.21	119.70
11	AB	2115	DT	P-O3'-C3'	-5.41	113.21	119.70
11	AB	5222	DT	P-O3'-C3'	-5.41	113.21	119.70
11	AB	6495	DT	P-O3'-C3'	-5.41	113.21	119.70
83	H3	3	DT	P-O3'-C3'	-5.41	113.21	119.70
200	SA	23	DT	P-O3'-C3'	-5.41	113.21	119.70
11	AB	2133	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	5671	DT	P-O3'-C3'	-5.40	113.22	119.70
235	WD	19	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	1385	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	3030	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	3905	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	5679	DT	P-O3'-C3'	-5.40	113.22	119.70
20	B7	14	DT	P-O3'-C3'	-5.40	113.22	119.70
181	Q9	10	DT	P-O3'-C3'	-5.40	113.22	119.70
183	QC	25	DT	P-O3'-C3'	-5.40	113.22	119.70
186	R3	16	DT	P-O3'-C3'	-5.40	113.22	119.70
221	V2	16	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	695	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	2363	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	3440	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	6802	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	7055	DT	P-O3'-C3'	-5.40	113.22	119.70
32	C8	13	DT	P-O3'-C3'	-5.40	113.22	119.70
86	H7	8	DT	P-O3'-C3'	-5.40	113.22	119.70
193	RD	17	DT	P-O3'-C3'	-5.40	113.22	119.70
4	A4	27	DT	P-O3'-C3'	-5.40	113.22	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1372	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	1451	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	2519	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	4676	DT	P-O3'-C3'	-5.40	113.22	119.70
50	E3	7	DT	P-O3'-C3'	-5.40	113.22	119.70
154	NC	19	DT	P-O3'-C3'	-5.40	113.22	119.70
176	Q2	16	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	253	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	506	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	3504	DT	P-O3'-C3'	-5.40	113.22	119.70
115	K2	22	DT	P-O3'-C3'	-5.40	113.22	119.70
148	N5	8	DT	P-O3'-C3'	-5.40	113.22	119.70
214	U5	40	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	3439	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	4244	DT	P-O3'-C3'	-5.40	113.22	119.70
219	UC	9	DT	P-O3'-C3'	-5.40	113.22	119.70
11	AB	1550	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	2046	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	2429	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	2475	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	2707	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	2773	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	2848	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	3550	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	4274	DT	P-O3'-C3'	-5.39	113.23	119.70
32	C8	49	DT	P-O3'-C3'	-5.39	113.23	119.70
105	J3	17	DT	P-O3'-C3'	-5.39	113.23	119.70
127	L3	13	DT	P-O3'-C3'	-5.39	113.23	119.70
130	L7	50	DT	P-O3'-C3'	-5.39	113.23	119.70
136	M2	12	DT	P-O3'-C3'	-5.39	113.23	119.70
177	Q3	11	DT	P-O3'-C3'	-5.39	113.23	119.70
216	U8	9	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	1631	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	1740	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	4236	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	5184	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	5609	DT	P-O3'-C3'	-5.39	113.23	119.70
117	K5	30	DT	P-O3'-C3'	-5.39	113.23	119.70
133	LA	4	DT	P-O3'-C3'	-5.39	113.23	119.70
138	M5	9	DT	P-O3'-C3'	-5.39	113.23	119.70
189	R8	25	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	2625	DT	P-O3'-C3'	-5.39	113.23	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5639	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	6274	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	6889	DT	P-O3'-C3'	-5.39	113.23	119.70
119	K7	37	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	740	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	1371	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	1619	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	1653	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	2904	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	3353	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	3828	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	3906	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	3994	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	4613	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	5265	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	6094	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	6426	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	6597	DT	P-O3'-C3'	-5.39	113.23	119.70
13	AD	39	DT	P-O3'-C3'	-5.39	113.23	119.70
16	B3	19	DT	P-O3'-C3'	-5.39	113.23	119.70
49	E2	25	DT	P-O3'-C3'	-5.39	113.23	119.70
87	H8	6	DT	P-O3'-C3'	-5.39	113.23	119.70
108	J7	17	DT	P-O3'-C3'	-5.39	113.23	119.70
123	KC	27	DT	P-O3'-C3'	-5.39	113.23	119.70
171	P8	9	DT	P-O3'-C3'	-5.39	113.23	119.70
172	P9	11	DT	P-O3'-C3'	-5.39	113.23	119.70
188	R7	26	DT	P-O3'-C3'	-5.39	113.23	119.70
190	R9	2	DT	P-O3'-C3'	-5.39	113.23	119.70
190	R9	36	DT	P-O3'-C3'	-5.39	113.23	119.70
208	T9	19	DT	P-O3'-C3'	-5.39	113.23	119.70
214	U5	39	DT	P-O3'-C3'	-5.39	113.23	119.70
215	U7	16	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	1508	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	2348	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	4424	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	5457	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	5608	DT	P-O3'-C3'	-5.39	113.23	119.70
37	D1	4	DT	P-O3'-C3'	-5.39	113.23	119.70
136	M2	10	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	530	DT	P-O3'-C3'	-5.39	113.24	119.70
11	AB	1345	DT	P-O3'-C3'	-5.39	113.24	119.70
11	AB	1608	DT	P-O3'-C3'	-5.39	113.24	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1632	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	1930	DT	P-O3'-C3'	-5.39	113.24	119.70
11	AB	3948	DT	P-O3'-C3'	-5.39	113.24	119.70
11	AB	4940	DT	P-O3'-C3'	-5.39	113.23	119.70
11	AB	6990	DT	P-O3'-C3'	-5.39	113.23	119.70
128	L5	7	DT	P-O3'-C3'	-5.39	113.24	119.70
144	MC	21	DT	P-O3'-C3'	-5.39	113.23	119.70
175	PD	14	DT	P-O3'-C3'	-5.39	113.24	119.70
190	R9	5	DT	P-O3'-C3'	-5.39	113.24	119.70
203	T2	7	DT	P-O3'-C3'	-5.39	113.24	119.70
214	U5	41	DT	P-O3'-C3'	-5.39	113.24	119.70
222	V3	8	DT	P-O3'-C3'	-5.39	113.24	119.70
11	AB	162	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	194	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	783	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	1236	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	2232	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	2342	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	2469	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	2933	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	3791	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	3939	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	4181	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	4273	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	5729	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	6203	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	7103	DT	P-O3'-C3'	-5.38	113.24	119.70
12	AC	12	DT	P-O3'-C3'	-5.38	113.24	119.70
26	C1	12	DT	P-O3'-C3'	-5.38	113.24	119.70
29	C5	1	DT	P-O3'-C3'	-5.38	113.24	119.70
32	C8	50	DT	P-O3'-C3'	-5.38	113.24	119.70
67	FA	23	DT	P-O3'-C3'	-5.38	113.24	119.70
127	L3	9	DT	P-O3'-C3'	-5.38	113.24	119.70
144	MC	22	DT	P-O3'-C3'	-5.38	113.24	119.70
160	O7	50	DT	P-O3'-C3'	-5.38	113.24	119.70
168	P5	12	DT	P-O3'-C3'	-5.38	113.24	119.70
231	W5	10	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	667	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	1241	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	1644	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	2800	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	3008	DT	P-O3'-C3'	-5.38	113.24	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4414	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	5307	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	6864	DT	P-O3'-C3'	-5.38	113.24	119.70
62	F5	29	DT	P-O3'-C3'	-5.38	113.24	119.70
7	A7	28	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	224	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	446	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	595	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	653	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	1779	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	2797	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	3715	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	3760	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	3761	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	5280	DT	P-O3'-C3'	-5.38	113.24	119.70
22	B9	2	DT	P-O3'-C3'	-5.38	113.24	119.70
42	D7	5	DT	P-O3'-C3'	-5.38	113.24	119.70
54	E8	11	DT	P-O3'-C3'	-5.38	113.24	119.70
67	FA	10	DT	P-O3'-C3'	-5.38	113.24	119.70
7	A7	19	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	10	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	1671	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	6132	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	6220	DT	P-O3'-C3'	-5.38	113.24	119.70
11	AB	7048	DT	P-O3'-C3'	-5.38	113.24	119.70
22	B9	18	DT	P-O3'-C3'	-5.38	113.24	119.70
43	D8	44	DT	P-O3'-C3'	-5.38	113.24	119.70
160	O7	24	DT	P-O3'-C3'	-5.38	113.24	119.70
1	A1	56	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	1351	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	1952	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	2023	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	2254	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	2906	DC	OP1-P-O3'	5.38	117.03	105.20
11	AB	3103	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	3410	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	4458	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	4686	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	4873	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	5163	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	5607	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	5697	DT	P-O3'-C3'	-5.38	113.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5812	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6175	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6323	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6808	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	7115	DT	P-O3'-C3'	-5.38	113.25	119.70
12	AC	15	DT	P-O3'-C3'	-5.38	113.25	119.70
14	B1	11	DT	P-O3'-C3'	-5.38	113.25	119.70
31	C7	7	DT	P-O3'-C3'	-5.38	113.25	119.70
54	E8	32	DT	P-O3'-C3'	-5.38	113.25	119.70
89	HA	16	DT	P-O3'-C3'	-5.38	113.25	119.70
98	I8	42	DT	P-O3'-C3'	-5.38	113.25	119.70
106	J5	9	DT	P-O3'-C3'	-5.38	113.25	119.70
133	LA	8	DT	P-O3'-C3'	-5.38	113.25	119.70
152	N9	5	DT	P-O3'-C3'	-5.38	113.25	119.70
161	O8	46	DT	P-O3'-C3'	-5.38	113.25	119.70
178	Q5	19	DT	P-O3'-C3'	-5.38	113.25	119.70
215	U7	15	DT	P-O3'-C3'	-5.38	113.25	119.70
223	V5	33	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	976	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	2626	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	2721	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	2816	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	3032	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	3244	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	4243	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	4285	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	5031	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	5377	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6009	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6280	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6293	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6587	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6758	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6797	DC	OP1-P-O3'	5.38	117.03	105.20
12	AC	14	DT	P-O3'-C3'	-5.38	113.25	119.70
79	GC	19	DT	P-O3'-C3'	-5.38	113.25	119.70
108	J7	18	DT	P-O3'-C3'	-5.38	113.25	119.70
117	K5	37	DT	P-O3'-C3'	-5.38	113.25	119.70
122	KA	49	DT	P-O3'-C3'	-5.38	113.25	119.70
145	MD	29	DT	P-O3'-C3'	-5.38	113.25	119.70
148	N5	9	DT	P-O3'-C3'	-5.38	113.25	119.70
160	O7	23	DT	P-O3'-C3'	-5.38	113.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
172	P9	5	DT	P-O3'-C3'	-5.38	113.25	119.70
218	UA	3	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	165	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	1563	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	3389	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	3614	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6424	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6566	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6584	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6598	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6600	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	6863	DT	P-O3'-C3'	-5.38	113.25	119.70
49	E2	15	DT	P-O3'-C3'	-5.38	113.25	119.70
67	FA	24	DT	P-O3'-C3'	-5.38	113.25	119.70
130	L7	3	DT	P-O3'-C3'	-5.38	113.25	119.70
231	W5	30	DT	P-O3'-C3'	-5.38	113.25	119.70
232	W7	13	DT	P-O3'-C3'	-5.38	113.25	119.70
11	AB	2411	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	2493	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	2518	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	2831	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	3156	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	3341	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	3886	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	4345	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	4720	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	4994	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	5670	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	6895	DT	P-O3'-C3'	-5.37	113.25	119.70
32	C8	12	DT	P-O3'-C3'	-5.37	113.25	119.70
35	CC	13	DT	P-O3'-C3'	-5.37	113.25	119.70
36	CD	17	DT	P-O3'-C3'	-5.37	113.25	119.70
40	D5	15	DT	P-O3'-C3'	-5.37	113.25	119.70
55	E9	5	DT	P-O3'-C3'	-5.37	113.25	119.70
91	HD	13	DT	P-O3'-C3'	-5.37	113.25	119.70
105	J3	6	DT	P-O3'-C3'	-5.37	113.25	119.70
173	PA	23	DT	P-O3'-C3'	-5.37	113.25	119.70
178	Q5	18	DT	P-O3'-C3'	-5.37	113.25	119.70
189	R8	12	DT	P-O3'-C3'	-5.37	113.25	119.70
214	U5	24	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	645	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	776	DT	P-O3'-C3'	-5.37	113.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1594	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	2438	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	3330	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	4235	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	4727	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	5449	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	5673	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	5982	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	6128	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	6197	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	6264	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	6312	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	6956	DT	P-O3'-C3'	-5.37	113.25	119.70
94	I3	41	DT	P-O3'-C3'	-5.37	113.25	119.70
96	I6	7	DT	P-O3'-C3'	-5.37	113.25	119.70
109	J8	22	DT	P-O3'-C3'	-5.37	113.25	119.70
114	K1	40	DT	P-O3'-C3'	-5.37	113.25	119.70
121	K9	18	DT	P-O3'-C3'	-5.37	113.25	119.70
124	KD	9	DT	P-O3'-C3'	-5.37	113.25	119.70
144	MC	17	DT	P-O3'-C3'	-5.37	113.25	119.70
171	P8	21	DT	P-O3'-C3'	-5.37	113.25	119.70
173	PA	16	DT	P-O3'-C3'	-5.37	113.25	119.70
198	S8	40	DT	P-O3'-C3'	-5.37	113.25	119.70
209	TA	19	DT	P-O3'-C3'	-5.37	113.25	119.70
221	V2	22	DT	P-O3'-C3'	-5.37	113.25	119.70
11	AB	131	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1111	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2441	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2849	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	3138	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	5021	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6419	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6603	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	7170	DT	P-O3'-C3'	-5.37	113.26	119.70
21	B8	23	DT	P-O3'-C3'	-5.37	113.26	119.70
24	BC	32	DT	P-O3'-C3'	-5.37	113.26	119.70
53	E7	9	DT	P-O3'-C3'	-5.37	113.26	119.70
102	ID	9	DT	P-O3'-C3'	-5.37	113.26	119.70
122	KA	37	DT	P-O3'-C3'	-5.37	113.26	119.70
126	L2	10	DT	P-O3'-C3'	-5.37	113.26	119.70
135	LD	8	DT	P-O3'-C3'	-5.37	113.26	119.70
146	N2	11	DT	P-O3'-C3'	-5.37	113.26	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
177	Q3	10	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	214	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	577	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1120	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1486	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1716	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2016	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2517	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2530	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2682	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2814	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2890	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	3009	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	3526	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	3848	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	4318	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	4939	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	5466	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	5581	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	5780	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6183	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6184	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6260	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6489	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6994	DT	P-O3'-C3'	-5.37	113.26	119.70
31	C7	28	DT	P-O3'-C3'	-5.37	113.26	119.70
32	C8	11	DT	P-O3'-C3'	-5.37	113.26	119.70
50	E3	11	DT	P-O3'-C3'	-5.37	113.26	119.70
55	E9	36	DT	P-O3'-C3'	-5.37	113.26	119.70
66	F9	17	DT	P-O3'-C3'	-5.37	113.26	119.70
84	H5	15	DT	P-O3'-C3'	-5.37	113.26	119.70
89	HA	17	DT	P-O3'-C3'	-5.37	113.26	119.70
105	J3	18	DT	P-O3'-C3'	-5.37	113.26	119.70
106	J5	10	DT	P-O3'-C3'	-5.37	113.26	119.70
119	K7	6	DT	P-O3'-C3'	-5.37	113.26	119.70
122	KA	29	DT	P-O3'-C3'	-5.37	113.26	119.70
142	M9	22	DT	P-O3'-C3'	-5.37	113.26	119.70
144	MC	20	DT	P-O3'-C3'	-5.37	113.26	119.70
191	RA	17	DT	P-O3'-C3'	-5.37	113.26	119.70
204	T3	32	DT	P-O3'-C3'	-5.37	113.26	119.70
223	V5	40	DT	P-O3'-C3'	-5.37	113.26	119.70
231	W5	29	DT	P-O3'-C3'	-5.37	113.26	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	A9	3	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	132	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	698	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1258	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1678	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1710	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1747	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1753	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1877	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2680	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	3349	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	3563	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	4605	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	4797	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	5209	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	5537	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	5616	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	5856	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6010	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6508	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6757	DT	P-O3'-C3'	-5.37	113.26	119.70
53	E7	2	DT	P-O3'-C3'	-5.37	113.26	119.70
200	SA	17	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	36	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	602	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	799	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1383	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1392	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1566	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1744	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	1969	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2042	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	2257	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	3397	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	3427	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	4459	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	4905	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	4923	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	5271	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	5966	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6225	DT	P-O3'-C3'	-5.37	113.26	119.70
11	AB	6790	DT	P-O3'-C3'	-5.37	113.26	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	7087	DT	P-O3'-C3'	-5.37	113.26	119.70
16	B3	8	DT	P-O3'-C3'	-5.37	113.26	119.70
20	B7	5	DT	P-O3'-C3'	-5.37	113.26	119.70
23	BA	6	DT	P-O3'-C3'	-5.37	113.26	119.70
36	CD	16	DT	P-O3'-C3'	-5.37	113.26	119.70
49	E2	22	DT	P-O3'-C3'	-5.37	113.26	119.70
91	HD	9	DT	P-O3'-C3'	-5.37	113.26	119.70
97	I7	12	DT	P-O3'-C3'	-5.37	113.26	119.70
124	KD	8	DT	P-O3'-C3'	-5.37	113.26	119.70
126	L2	22	DT	P-O3'-C3'	-5.37	113.26	119.70
128	L5	8	DT	P-O3'-C3'	-5.37	113.26	119.70
152	N9	9	DT	P-O3'-C3'	-5.37	113.26	119.70
168	P5	11	DT	P-O3'-C3'	-5.37	113.26	119.70
174	PC	21	DT	P-O3'-C3'	-5.37	113.26	119.70
181	Q9	35	DT	P-O3'-C3'	-5.37	113.26	119.70
203	T2	6	DT	P-O3'-C3'	-5.37	113.26	119.70
220	UD	11	DT	P-O3'-C3'	-5.37	113.26	119.70
227	VA	9	DT	P-O3'-C3'	-5.37	113.26	119.70
238	X9	40	DT	P-O3'-C3'	-5.37	113.26	119.70
4	A4	28	DT	P-O3'-C3'	-5.36	113.26	119.70
6	A6	19	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	176	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	875	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	965	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	1157	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	1224	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	1553	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1569	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	2086	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	2426	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	2835	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	2889	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	3090	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3536	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	3995	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	4751	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	4804	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	5022	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5645	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	5894	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	6301	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	6679	DT	P-O3'-C3'	-5.36	113.27	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6718	DT	P-O3'-C3'	-5.36	113.26	119.70
11	AB	7043	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	7067	DT	P-O3'-C3'	-5.36	113.27	119.70
13	AD	35	DT	P-O3'-C3'	-5.36	113.26	119.70
21	B8	6	DT	P-O3'-C3'	-5.36	113.26	119.70
40	D5	21	DT	P-O3'-C3'	-5.36	113.26	119.70
54	E8	31	DT	P-O3'-C3'	-5.36	113.26	119.70
55	E9	32	DT	P-O3'-C3'	-5.36	113.26	119.70
77	G9	15	DT	P-O3'-C3'	-5.36	113.27	119.70
89	HA	6	DT	P-O3'-C3'	-5.36	113.26	119.70
98	I8	5	DT	P-O3'-C3'	-5.36	113.27	119.70
136	M2	2	DT	P-O3'-C3'	-5.36	113.27	119.70
149	N6	4	DT	P-O3'-C3'	-5.36	113.26	119.70
159	O6	14	DT	P-O3'-C3'	-5.36	113.26	119.70
191	RA	28	DT	P-O3'-C3'	-5.36	113.26	119.70
232	W7	10	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	331	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2128	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2226	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2641	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3758	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5269	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5383	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5435	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5808	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	6418	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	6983	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	7061	DT	P-O3'-C3'	-5.36	113.27	119.70
53	E7	21	DT	P-O3'-C3'	-5.36	113.27	119.70
86	H7	17	DT	P-O3'-C3'	-5.36	113.27	119.70
89	HA	15	DT	P-O3'-C3'	-5.36	113.27	119.70
185	R2	1	DT	P-O3'-C3'	-5.36	113.27	119.70
216	U8	22	DT	P-O3'-C3'	-5.36	113.27	119.70
5	A5	13	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	121	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	221	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1211	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1384	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1509	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1557	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1575	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1965	DT	P-O3'-C3'	-5.36	113.27	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2089	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2174	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2181	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2419	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2756	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2820	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3304	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3367	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3426	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3588	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3639	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	4721	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	4768	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5355	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5558	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5790	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	6487	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	6879	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	7095	DT	P-O3'-C3'	-5.36	113.27	119.70
13	AD	40	DT	P-O3'-C3'	-5.36	113.27	119.70
23	BA	25	DT	P-O3'-C3'	-5.36	113.27	119.70
31	C7	4	DT	P-O3'-C3'	-5.36	113.27	119.70
43	D8	11	DT	P-O3'-C3'	-5.36	113.27	119.70
54	E8	24	DT	P-O3'-C3'	-5.36	113.27	119.70
56	EA	16	DT	P-O3'-C3'	-5.36	113.27	119.70
76	G8	16	DT	P-O3'-C3'	-5.36	113.27	119.70
86	H7	16	DT	P-O3'-C3'	-5.36	113.27	119.70
129	L6	8	DT	P-O3'-C3'	-5.36	113.27	119.70
129	L6	19	DT	P-O3'-C3'	-5.36	113.27	119.70
157	O3	23	DT	P-O3'-C3'	-5.36	113.27	119.70
171	P8	23	DT	P-O3'-C3'	-5.36	113.27	119.70
181	Q9	29	DT	P-O3'-C3'	-5.36	113.27	119.70
184	QD	12	DT	P-O3'-C3'	-5.36	113.27	119.70
194	S2	27	DT	P-O3'-C3'	-5.36	113.27	119.70
198	S8	10	DT	P-O3'-C3'	-5.36	113.27	119.70
198	S8	25	DT	P-O3'-C3'	-5.36	113.27	119.70
203	T2	18	DT	P-O3'-C3'	-5.36	113.27	119.70
212	U2	22	DT	P-O3'-C3'	-5.36	113.27	119.70
219	UC	15	DT	P-O3'-C3'	-5.36	113.27	119.70
220	UD	2	DT	P-O3'-C3'	-5.36	113.27	119.70
231	W5	26	DT	P-O3'-C3'	-5.36	113.27	119.70
5	A5	1	DT	P-O3'-C3'	-5.36	113.27	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	184	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	225	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	771	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1616	DC	OP1-P-O3'	5.36	116.99	105.20
11	AB	2459	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2542	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3161	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3209	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3223	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	4316	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	6002	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	6161	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	7220	DT	P-O3'-C3'	-5.36	113.27	119.70
62	F5	21	DT	P-O3'-C3'	-5.36	113.27	119.70
136	M2	11	DT	P-O3'-C3'	-5.36	113.27	119.70
144	MC	15	DT	P-O3'-C3'	-5.36	113.27	119.70
194	S2	8	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	143	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	603	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1158	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1273	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1434	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1457	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2420	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2810	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2967	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3280	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3549	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3571	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3668	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3885	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	4457	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5290	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5348	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5384	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5385	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	7096	DT	P-O3'-C3'	-5.36	113.27	119.70
31	C7	11	DT	P-O3'-C3'	-5.36	113.27	119.70
58	ED	26	DT	P-O3'-C3'	-5.36	113.27	119.70
62	F5	45	DT	P-O3'-C3'	-5.36	113.27	119.70
82	H2	16	DT	P-O3'-C3'	-5.36	113.27	119.70
121	K9	16	DT	P-O3'-C3'	-5.36	113.27	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
173	PA	24	DT	P-O3'-C3'	-5.36	113.27	119.70
178	Q5	32	DT	P-O3'-C3'	-5.36	113.27	119.70
190	R9	37	DT	P-O3'-C3'	-5.36	113.27	119.70
196	S5	30	DT	P-O3'-C3'	-5.36	113.27	119.70
212	U2	21	DT	P-O3'-C3'	-5.36	113.27	119.70
217	U9	13	DT	P-O3'-C3'	-5.36	113.27	119.70
217	U9	14	DT	P-O3'-C3'	-5.36	113.27	119.70
2	A2	15	DT	P-O3'-C3'	-5.36	113.27	119.70
2	A2	28	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	144	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	177	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	282	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1584	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	1822	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	2735	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3016	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3164	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3767	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	3907	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	4150	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	4165	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5030	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5501	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5713	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5787	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	5904	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	6148	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	6333	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	6425	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	7046	DT	P-O3'-C3'	-5.36	113.28	119.70
13	AD	41	DT	P-O3'-C3'	-5.36	113.27	119.70
26	C1	15	DT	P-O3'-C3'	-5.36	113.27	119.70
62	F5	8	DT	P-O3'-C3'	-5.36	113.27	119.70
62	F5	28	DT	P-O3'-C3'	-5.36	113.27	119.70
62	F5	30	DT	P-O3'-C3'	-5.36	113.27	119.70
84	H5	4	DT	P-O3'-C3'	-5.36	113.27	119.70
103	J1	11	DT	P-O3'-C3'	-5.36	113.27	119.70
108	J7	24	DT	P-O3'-C3'	-5.36	113.27	119.70
118	K6	20	DT	P-O3'-C3'	-5.36	113.27	119.70
125	L1	22	DT	P-O3'-C3'	-5.36	113.27	119.70
137	M3	27	DT	P-O3'-C3'	-5.36	113.27	119.70
145	MD	10	DT	P-O3'-C3'	-5.36	113.27	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
181	Q9	8	DT	P-O3'-C3'	-5.36	113.27	119.70
192	RC	17	DT	P-O3'-C3'	-5.36	113.27	119.70
211	TD	18	DT	P-O3'-C3'	-5.36	113.27	119.70
233	W8	6	DT	P-O3'-C3'	-5.36	113.27	119.70
11	AB	798	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1587	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3194	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3548	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3819	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3943	DC	OP1-P-O3'	5.35	116.98	105.20
11	AB	5317	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5745	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6423	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6583	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	7033	DT	P-O3'-C3'	-5.35	113.28	119.70
56	EA	6	DT	P-O3'-C3'	-5.35	113.28	119.70
108	J7	13	DT	P-O3'-C3'	-5.35	113.28	119.70
118	K6	6	DT	P-O3'-C3'	-5.35	113.28	119.70
149	N6	5	DT	P-O3'-C3'	-5.35	113.28	119.70
154	NC	12	DT	P-O3'-C3'	-5.35	113.28	119.70
183	QC	24	DT	P-O3'-C3'	-5.35	113.28	119.70
211	TD	33	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	172	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1085	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1121	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1212	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1329	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1712	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2249	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2508	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2690	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2738	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2757	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2978	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3054	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3192	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3851	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	4223	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	4404	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6699	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	7094	DT	P-O3'-C3'	-5.35	113.28	119.70
41	D6	40	DT	P-O3'-C3'	-5.35	113.28	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	E8	13	DT	P-O3'-C3'	-5.35	113.28	119.70
60	F2	8	DT	P-O3'-C3'	-5.35	113.28	119.70
77	G9	14	DT	P-O3'-C3'	-5.35	113.28	119.70
81	H1	18	DT	P-O3'-C3'	-5.35	113.28	119.70
120	K8	19	DT	P-O3'-C3'	-5.35	113.28	119.70
126	L2	9	DT	P-O3'-C3'	-5.35	113.28	119.70
126	L2	31	DT	P-O3'-C3'	-5.35	113.28	119.70
138	M5	38	DT	P-O3'-C3'	-5.35	113.28	119.70
166	P2	15	DT	P-O3'-C3'	-5.35	113.28	119.70
179	Q7	10	DT	P-O3'-C3'	-5.35	113.28	119.70
211	TD	5	DT	P-O3'-C3'	-5.35	113.28	119.70
231	W5	11	DT	P-O3'-C3'	-5.35	113.28	119.70
231	W5	28	DT	P-O3'-C3'	-5.35	113.28	119.70
9	A9	15	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1831	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1964	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2093	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2596	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2648	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2767	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3522	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5730	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5770	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5774	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6569	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6710	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6719	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6945	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	7060	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	7104	DT	P-O3'-C3'	-5.35	113.28	119.70
18	B5	27	DT	P-O3'-C3'	-5.35	113.28	119.70
105	J3	12	DT	P-O3'-C3'	-5.35	113.28	119.70
108	J7	43	DT	P-O3'-C3'	-5.35	113.28	119.70
115	K2	13	DT	P-O3'-C3'	-5.35	113.28	119.70
166	P2	14	DT	P-O3'-C3'	-5.35	113.28	119.70
214	U5	13	DT	P-O3'-C3'	-5.35	113.28	119.70
219	UC	10	DT	P-O3'-C3'	-5.35	113.28	119.70
5	A5	11	DT	P-O3'-C3'	-5.35	113.28	119.70
8	A8	13	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	66	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	803	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1235	DT	P-O3'-C3'	-5.35	113.28	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1718	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1878	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2047	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2396	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2703	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2819	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3014	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3435	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3467	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	4156	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	4169	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	4769	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5318	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5597	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6302	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6549	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6638	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6771	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6913	DT	P-O3'-C3'	-5.35	113.28	119.70
20	B7	15	DT	P-O3'-C3'	-5.35	113.28	119.70
100	IA	14	DT	P-O3'-C3'	-5.35	113.28	119.70
102	ID	15	DT	P-O3'-C3'	-5.35	113.28	119.70
105	J3	7	DT	P-O3'-C3'	-5.35	113.28	119.70
123	KC	14	DT	P-O3'-C3'	-5.35	113.28	119.70
133	LA	9	DT	P-O3'-C3'	-5.35	113.28	119.70
190	R9	1	DT	P-O3'-C3'	-5.35	113.28	119.70
190	R9	6	DT	P-O3'-C3'	-5.35	113.28	119.70
235	WD	20	DT	P-O3'-C3'	-5.35	113.28	119.70
237	X7	3	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	652	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1309	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1507	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1689	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1774	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2221	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2446	DC	OP1-P-O3'	5.35	116.97	105.20
11	AB	2460	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2634	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3160	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3287	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3510	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3759	DT	P-O3'-C3'	-5.35	113.28	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3788	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	4408	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5229	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5329	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5751	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5998	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6450	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6548	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6957	DT	P-O3'-C3'	-5.35	113.28	119.70
12	AC	13	DT	P-O3'-C3'	-5.35	113.28	119.70
18	B5	35	DT	P-O3'-C3'	-5.35	113.28	119.70
31	C7	26	DT	P-O3'-C3'	-5.35	113.28	119.70
41	D6	38	DT	P-O3'-C3'	-5.35	113.28	119.70
56	EA	13	DT	P-O3'-C3'	-5.35	113.28	119.70
74	G6	15	DT	P-O3'-C3'	-5.35	113.28	119.70
82	H2	45	DT	P-O3'-C3'	-5.35	113.28	119.70
112	JC	21	DT	P-O3'-C3'	-5.35	113.28	119.70
155	ND	11	DT	P-O3'-C3'	-5.35	113.28	119.70
161	O8	24	DT	P-O3'-C3'	-5.35	113.28	119.70
172	P9	13	DT	P-O3'-C3'	-5.35	113.28	119.70
189	R8	33	DT	P-O3'-C3'	-5.35	113.28	119.70
201	SC	3	DT	P-O3'-C3'	-5.35	113.28	119.70
204	T3	11	DT	P-O3'-C3'	-5.35	113.28	119.70
211	TD	6	DT	P-O3'-C3'	-5.35	113.28	119.70
9	A9	1	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	1649	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	2681	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	3820	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	4101	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	4269	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5423	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5819	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	5952	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6582	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6766	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	6793	DT	P-O3'-C3'	-5.35	113.28	119.70
11	AB	7075	DT	P-O3'-C3'	-5.35	113.28	119.70
30	C6	20	DT	P-O3'-C3'	-5.35	113.28	119.70
30	C6	27	DT	P-O3'-C3'	-5.35	113.28	119.70
78	GA	9	DT	P-O3'-C3'	-5.35	113.28	119.70
181	Q9	28	DT	P-O3'-C3'	-5.35	113.28	119.70
9	A9	14	DT	P-O3'-C3'	-5.34	113.29	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	74	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	130	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	134	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	275	DC	OP1-P-O3'	5.34	116.96	105.20
11	AB	795	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	802	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1066	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1302	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1344	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1356	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	2098	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	2302	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	4229	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	4317	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	4491	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5180	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5362	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5394	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5661	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6524	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6737	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6884	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	7062	DT	P-O3'-C3'	-5.34	113.29	119.70
13	AD	36	DT	P-O3'-C3'	-5.34	113.29	119.70
60	F2	31	DT	P-O3'-C3'	-5.34	113.29	119.70
83	H3	8	DT	P-O3'-C3'	-5.34	113.29	119.70
93	I2	27	DT	P-O3'-C3'	-5.34	113.29	119.70
115	K2	12	DT	P-O3'-C3'	-5.34	113.29	119.70
124	KD	21	DT	P-O3'-C3'	-5.34	113.29	119.70
130	L7	13	DT	P-O3'-C3'	-5.34	113.29	119.70
132	L9	18	DT	P-O3'-C3'	-5.34	113.29	119.70
145	MD	34	DT	P-O3'-C3'	-5.34	113.28	119.70
149	N6	9	DT	P-O3'-C3'	-5.34	113.29	119.70
161	O8	48	DT	P-O3'-C3'	-5.34	113.29	119.70
190	R9	20	DT	P-O3'-C3'	-5.34	113.29	119.70
8	A8	26	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	27	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1223	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1278	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1303	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1304	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1462	DT	P-O3'-C3'	-5.34	113.29	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1554	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1635	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1711	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1741	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	3157	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	3725	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5393	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5395	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6512	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6667	DT	P-O3'-C3'	-5.34	113.29	119.70
131	L8	13	DT	P-O3'-C3'	-5.34	113.29	119.70
138	M5	11	DT	P-O3'-C3'	-5.34	113.29	119.70
159	O6	1	DT	P-O3'-C3'	-5.34	113.29	119.70
172	P9	23	DT	P-O3'-C3'	-5.34	113.29	119.70
195	S3	19	DT	P-O3'-C3'	-5.34	113.29	119.70
214	U5	19	DT	P-O3'-C3'	-5.34	113.29	119.70
230	W3	25	DT	P-O3'-C3'	-5.34	113.29	119.70
8	A8	25	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	181	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	338	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	382	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	770	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1437	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1490	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	2244	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	3000	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	3241	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	3366	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	3617	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5598	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5746	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5752	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6282	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6396	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6574	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6871	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	7001	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	7133	DT	P-O3'-C3'	-5.34	113.29	119.70
17	B4	6	DT	P-O3'-C3'	-5.34	113.29	119.70
41	D6	39	DT	P-O3'-C3'	-5.34	113.29	119.70
60	F2	30	DT	P-O3'-C3'	-5.34	113.29	119.70
74	G6	14	DT	P-O3'-C3'	-5.34	113.29	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	GD	7	DT	P-O3'-C3'	-5.34	113.29	119.70
96	I6	11	DT	P-O3'-C3'	-5.34	113.29	119.70
102	ID	14	DT	P-O3'-C3'	-5.34	113.29	119.70
119	K7	24	DT	P-O3'-C3'	-5.34	113.29	119.70
142	M9	12	DT	P-O3'-C3'	-5.34	113.29	119.70
148	N5	33	DT	P-O3'-C3'	-5.34	113.29	119.70
171	P8	22	DT	P-O3'-C3'	-5.34	113.29	119.70
181	Q9	34	DT	P-O3'-C3'	-5.34	113.29	119.70
4	A4	29	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	142	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	974	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1546	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1681	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1816	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	1991	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	2299	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	2335	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	2861	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	2930	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	3059	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	3505	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	4190	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	4191	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	4714	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5779	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	5796	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6221	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	6599	DT	P-O3'-C3'	-5.34	113.29	119.70
18	B5	20	DT	P-O3'-C3'	-5.34	113.29	119.70
26	C1	23	DT	P-O3'-C3'	-5.34	113.29	119.70
95	I5	25	DT	P-O3'-C3'	-5.34	113.29	119.70
96	I6	12	DT	P-O3'-C3'	-5.34	113.29	119.70
114	K1	13	DT	P-O3'-C3'	-5.34	113.29	119.70
117	K5	15	DT	P-O3'-C3'	-5.34	113.29	119.70
119	K7	41	DT	P-O3'-C3'	-5.34	113.29	119.70
129	L6	7	DT	P-O3'-C3'	-5.34	113.29	119.70
135	LD	9	DT	P-O3'-C3'	-5.34	113.29	119.70
166	P2	34	DT	P-O3'-C3'	-5.34	113.29	119.70
167	P3	6	DT	P-O3'-C3'	-5.34	113.29	119.70
178	Q5	31	DT	P-O3'-C3'	-5.34	113.29	119.70
211	TD	25	DT	P-O3'-C3'	-5.34	113.29	119.70
6	A6	24	DT	P-O3'-C3'	-5.34	113.29	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1363	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	2815	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	2847	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	3261	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	4125	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	4327	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	6488	DT	P-O3'-C3'	-5.34	113.29	119.70
19	B6	23	DT	P-O3'-C3'	-5.34	113.30	119.70
62	F5	44	DT	P-O3'-C3'	-5.34	113.29	119.70
119	K7	42	DT	P-O3'-C3'	-5.34	113.30	119.70
133	LA	20	DT	P-O3'-C3'	-5.34	113.29	119.70
167	P3	13	DT	P-O3'-C3'	-5.34	113.29	119.70
178	Q5	20	DT	P-O3'-C3'	-5.34	113.29	119.70
211	TD	1	DT	P-O3'-C3'	-5.34	113.29	119.70
237	X7	10	DT	P-O3'-C3'	-5.34	113.29	119.70
11	AB	610	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	624	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	1775	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	1885	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	2131	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	2132	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	2194	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	2225	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	2844	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	3403	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	3623	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	4617	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	5125	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	5306	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	5766	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	5778	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	5897	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	6078	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	6259	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	6292	DT	P-O3'-C3'	-5.34	113.30	119.70
39	D3	22	DT	P-O3'-C3'	-5.34	113.30	119.70
74	G6	19	DT	P-O3'-C3'	-5.34	113.30	119.70
96	I6	1	DT	P-O3'-C3'	-5.34	113.30	119.70
101	IC	8	DT	P-O3'-C3'	-5.34	113.30	119.70
118	K6	7	DT	P-O3'-C3'	-5.34	113.30	119.70
144	MC	14	DT	P-O3'-C3'	-5.34	113.30	119.70
172	P9	12	DT	P-O3'-C3'	-5.34	113.30	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
184	QD	11	DT	P-O3'-C3'	-5.34	113.30	119.70
191	RA	18	DT	P-O3'-C3'	-5.34	113.30	119.70
206	T7	46	DT	P-O3'-C3'	-5.34	113.30	119.70
222	V3	6	DT	P-O3'-C3'	-5.34	113.30	119.70
231	W5	9	DT	P-O3'-C3'	-5.34	113.30	119.70
11	AB	119	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	135	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	756	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	1748	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	1933	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2134	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2148	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2347	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	3015	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	3200	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	3979	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	4843	DC	OP1-P-O3'	5.33	116.94	105.20
11	AB	6038	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6127	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6989	DT	P-O3'-C3'	-5.33	113.30	119.70
41	D6	37	DT	P-O3'-C3'	-5.33	113.30	119.70
81	H1	21	DT	P-O3'-C3'	-5.33	113.30	119.70
85	H6	19	DT	P-O3'-C3'	-5.33	113.30	119.70
103	J1	27	DT	P-O3'-C3'	-5.33	113.30	119.70
121	K9	7	DC	OP1-P-O3'	5.33	116.94	105.20
165	OD	16	DC	OP1-P-O3'	5.33	116.94	105.20
11	AB	65	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	1172	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	1279	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2786	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	3747	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	4366	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	4872	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	5500	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	5843	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6046	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6205	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6393	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6740	DT	P-O3'-C3'	-5.33	113.30	119.70
31	C7	27	DT	P-O3'-C3'	-5.33	113.30	119.70
53	E7	5	DT	P-O3'-C3'	-5.33	113.30	119.70
95	I5	4	DT	P-O3'-C3'	-5.33	113.30	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
127	L3	6	DT	P-O3'-C3'	-5.33	113.30	119.70
141	M8	11	DT	P-O3'-C3'	-5.33	113.30	119.70
154	NC	18	DT	P-O3'-C3'	-5.33	113.30	119.70
175	PD	1	DC	OP1-P-O3'	5.33	116.93	105.20
192	RC	30	DT	P-O3'-C3'	-5.33	113.30	119.70
217	U9	26	DT	P-O3'-C3'	-5.33	113.30	119.70
219	UC	11	DT	P-O3'-C3'	-5.33	113.30	119.70
236	X5	15	DT	P-O3'-C3'	-5.33	113.30	119.70
7	A7	38	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	1205	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	1393	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	1523	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	1833	DC	OP1-P-O3'	5.33	116.93	105.20
11	AB	1911	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2155	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2231	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2430	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2659	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2834	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2957	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	3329	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	3667	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	3881	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	5181	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	5330	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	5997	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6005	DC	OP1-P-O3'	5.33	116.93	105.20
11	AB	6417	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6946	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6993	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	7034	DT	P-O3'-C3'	-5.33	113.30	119.70
16	B3	14	DT	P-O3'-C3'	-5.33	113.30	119.70
32	C8	51	DT	P-O3'-C3'	-5.33	113.30	119.70
57	EC	6	DT	P-O3'-C3'	-5.33	113.30	119.70
82	H2	10	DT	P-O3'-C3'	-5.33	113.30	119.70
95	I5	5	DT	P-O3'-C3'	-5.33	113.30	119.70
109	J8	23	DT	P-O3'-C3'	-5.33	113.30	119.70
111	JA	1	DT	P-O3'-C3'	-5.33	113.30	119.70
125	L1	46	DT	P-O3'-C3'	-5.33	113.30	119.70
144	MC	16	DT	P-O3'-C3'	-5.33	113.30	119.70
177	Q3	12	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	1106	DT	P-O3'-C3'	-5.33	113.30	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1272	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	1454	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2548	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	2560	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	3354	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	3624	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	4079	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	4434	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	4640	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	4874	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	5644	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6258	DT	P-O3'-C3'	-5.33	113.30	119.70
11	AB	6657	DT	P-O3'-C3'	-5.33	113.30	119.70
51	E5	31	DT	P-O3'-C3'	-5.33	113.30	119.70
64	F7	27	DT	P-O3'-C3'	-5.33	113.30	119.70
122	KA	36	DT	P-O3'-C3'	-5.33	113.31	119.70
126	L2	21	DT	P-O3'-C3'	-5.33	113.31	119.70
7	A7	39	DT	P-O3'-C3'	-5.33	113.31	119.70
8	A8	12	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	159	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	337	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	362	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	794	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	1354	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	1471	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	2559	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	2570	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	3001	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	3385	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	4426	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	5341	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	5617	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	5791	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	6149	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	6673	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	6761	DT	P-O3'-C3'	-5.33	113.31	119.70
18	B5	19	DT	P-O3'-C3'	-5.33	113.31	119.70
78	GA	10	DT	P-O3'-C3'	-5.33	113.31	119.70
83	H3	17	DT	P-O3'-C3'	-5.33	113.31	119.70
112	JC	19	DT	P-O3'-C3'	-5.33	113.31	119.70
112	JC	20	DT	P-O3'-C3'	-5.33	113.31	119.70
143	MA	22	DC	OP1-P-O3'	5.33	116.92	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	120	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	1476	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	2293	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	3666	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	3716	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	4326	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	4409	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	5437	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	5855	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	6281	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	6366	DT	P-O3'-C3'	-5.33	113.31	119.70
9	A9	2	DT	P-O3'-C3'	-5.33	113.31	119.70
9	A9	4	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	133	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	609	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	1539	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	1686	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	2097	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	2243	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	2394	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	2720	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	2752	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	2874	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	2891	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	3308	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	3356	DC	OP1-P-O3'	5.33	116.92	105.20
11	AB	3961	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	4157	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	4222	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	4741	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	6020	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	6204	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	6398	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	6483	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	7056	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	7183	DT	P-O3'-C3'	-5.33	113.31	119.70
47	DD	42	DC	OP1-P-O3'	5.33	116.92	105.20
77	G9	6	DT	P-O3'-C3'	-5.33	113.31	119.70
115	K2	31	DT	P-O3'-C3'	-5.33	113.31	119.70
141	M8	29	DT	P-O3'-C3'	-5.33	113.31	119.70
165	OD	57	DT	P-O3'-C3'	-5.33	113.31	119.70
167	P3	14	DT	P-O3'-C3'	-5.33	113.31	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
171	P8	18	DT	P-O3'-C3'	-5.33	113.31	119.70
195	S3	12	DT	P-O3'-C3'	-5.33	113.31	119.70
232	W7	26	DT	P-O3'-C3'	-5.33	113.31	119.70
11	AB	1717	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	1873	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	2821	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	3085	DC	OP1-P-O3'	5.32	116.91	105.20
11	AB	3598	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	4160	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	4856	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	6191	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	6368	DT	P-O3'-C3'	-5.32	113.31	119.70
60	F2	9	DT	P-O3'-C3'	-5.32	113.31	119.70
96	I6	8	DT	P-O3'-C3'	-5.32	113.31	119.70
120	K8	17	DC	OP1-P-O3'	5.32	116.91	105.20
123	KC	13	DT	P-O3'-C3'	-5.32	113.31	119.70
125	L1	23	DT	P-O3'-C3'	-5.32	113.31	119.70
154	NC	15	DT	P-O3'-C3'	-5.32	113.31	119.70
214	U5	23	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	917	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	2395	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	3434	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	4914	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	5570	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	7184	DT	P-O3'-C3'	-5.32	113.31	119.70
33	C9	26	DT	P-O3'-C3'	-5.32	113.31	119.70
44	D9	4	DC	OP1-P-O3'	5.32	116.91	105.20
94	I3	5	DC	OP1-P-O3'	5.32	116.91	105.20
173	PA	22	DT	P-O3'-C3'	-5.32	113.31	119.70
189	R8	13	DT	P-O3'-C3'	-5.32	113.31	119.70
220	UD	13	DC	OP1-P-O3'	5.32	116.91	105.20
230	W3	11	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	388	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	1332	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	1545	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	2190	DC	OP1-P-O3'	5.32	116.90	105.20
11	AB	2198	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	2405	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	3004	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	3045	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	3095	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	3331	DT	P-O3'-C3'	-5.32	113.31	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3503	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	4877	DC	OP1-P-O3'	5.32	116.91	105.20
11	AB	4929	DC	OP1-P-O3'	5.32	116.91	105.20
11	AB	5767	DT	P-O3'-C3'	-5.32	113.31	119.70
11	AB	7158	DT	P-O3'-C3'	-5.32	113.32	119.70
48	E1	2	DC	OP1-P-O3'	5.32	116.91	105.20
51	E5	21	DT	P-O3'-C3'	-5.32	113.32	119.70
52	E6	1	DT	P-O3'-C3'	-5.32	113.32	119.70
55	E9	9	DT	P-O3'-C3'	-5.32	113.32	119.70
60	F2	14	DC	OP1-P-O3'	5.32	116.91	105.20
68	FC	3	DT	P-O3'-C3'	-5.32	113.31	119.70
77	G9	2	DT	P-O3'-C3'	-5.32	113.31	119.70
105	J3	26	DT	P-O3'-C3'	-5.32	113.32	119.70
141	M8	28	DT	P-O3'-C3'	-5.32	113.31	119.70
152	N9	20	DT	P-O3'-C3'	-5.32	113.32	119.70
190	R9	19	DT	P-O3'-C3'	-5.32	113.32	119.70
212	U2	11	DC	OP1-P-O3'	5.32	116.91	105.20
224	V7	18	DT	P-O3'-C3'	-5.32	113.32	119.70
237	X7	7	DC	OP1-P-O3'	5.32	116.91	105.20
5	A5	20	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	248	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	290	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	688	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	1679	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	4473	DC	OP1-P-O3'	5.32	116.90	105.20
11	AB	5328	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	5347	DT	P-O3'-C3'	-5.32	113.32	119.70
115	K2	32	DT	P-O3'-C3'	-5.32	113.32	119.70
147	N3	21	DC	OP1-P-O3'	5.32	116.90	105.20
167	P3	19	DC	OP1-P-O3'	5.32	116.90	105.20
222	V3	7	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	30	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	1350	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	2536	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	2551	DC	OP1-P-O3'	5.32	116.90	105.20
11	AB	2824	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	2898	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	3746	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	4349	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	4635	DC	OP1-P-O3'	5.32	116.90	105.20
11	AB	5372	DC	OP1-P-O3'	5.32	116.90	105.20
11	AB	5542	DT	P-O3'-C3'	-5.32	113.32	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5902	DC	OP1-P-O3'	5.32	116.90	105.20
62	F5	9	DT	P-O3'-C3'	-5.32	113.32	119.70
64	F7	22	DC	OP1-P-O3'	5.32	116.90	105.20
108	J7	3	DT	P-O3'-C3'	-5.32	113.32	119.70
147	N3	15	DT	P-O3'-C3'	-5.32	113.32	119.70
149	N6	22	DT	P-O3'-C3'	-5.32	113.32	119.70
158	O5	41	DC	OP1-P-O3'	5.32	116.90	105.20
204	T3	29	DC	OP1-P-O3'	5.32	116.90	105.20
11	AB	189	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	1159	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	1271	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	1313	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	1680	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	2140	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	2201	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	2423	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	3031	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	3362	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	4407	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	4433	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	4630	DC	OP1-P-O3'	5.32	116.89	105.20
11	AB	4988	DC	OP1-P-O3'	5.32	116.90	105.20
11	AB	5354	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	5443	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	5465	DT	P-O3'-C3'	-5.32	113.32	119.70
11	AB	5480	DC	OP1-P-O3'	5.32	116.89	105.20
11	AB	6387	DC	OP1-P-O3'	5.32	116.89	105.20
11	AB	7132	DT	P-O3'-C3'	-5.32	113.32	119.70
15	B2	14	DC	OP1-P-O3'	5.32	116.89	105.20
18	B5	18	DT	P-O3'-C3'	-5.32	113.32	119.70
19	B6	1	DC	OP1-P-O3'	5.32	116.89	105.20
29	C5	26	DC	OP1-P-O3'	5.32	116.89	105.20
39	D3	13	DC	OP1-P-O3'	5.32	116.89	105.20
47	DD	20	DC	OP1-P-O3'	5.32	116.90	105.20
92	I1	8	DC	OP1-P-O3'	5.32	116.89	105.20
94	I3	14	DC	OP1-P-O3'	5.32	116.89	105.20
105	J3	23	DC	OP1-P-O3'	5.32	116.89	105.20
117	K5	14	DT	P-O3'-C3'	-5.32	113.32	119.70
138	M5	10	DT	P-O3'-C3'	-5.32	113.32	119.70
145	MD	42	DC	OP1-P-O3'	5.32	116.90	105.20
151	N8	13	DT	P-O3'-C3'	-5.32	113.32	119.70
154	NC	28	DC	OP1-P-O3'	5.32	116.89	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
156	O2	57	DC	OP1-P-O3'	5.32	116.89	105.20
161	O8	38	DC	OP1-P-O3'	5.32	116.89	105.20
161	O8	55	DC	OP1-P-O3'	5.32	116.89	105.20
165	OD	20	DC	OP1-P-O3'	5.32	116.89	105.20
165	OD	39	DC	OP1-P-O3'	5.32	116.89	105.20
166	P2	17	DT	P-O3'-C3'	-5.32	113.32	119.70
171	P8	14	DC	OP1-P-O3'	5.32	116.89	105.20
200	SA	15	DC	OP1-P-O3'	5.32	116.89	105.20
218	UA	2	DT	P-O3'-C3'	-5.32	113.32	119.70
230	W3	24	DT	P-O3'-C3'	-5.32	113.32	119.70
230	W3	32	DT	P-O3'-C3'	-5.32	113.32	119.70
1	A1	18	DT	P-O3'-C3'	-5.31	113.32	119.70
11	AB	1355	DT	P-O3'-C3'	-5.31	113.32	119.70
11	AB	1725	DT	P-O3'-C3'	-5.31	113.32	119.70
11	AB	2020	DT	P-O3'-C3'	-5.31	113.32	119.70
11	AB	2393	DT	P-O3'-C3'	-5.31	113.32	119.70
11	AB	4049	DC	OP1-P-O3'	5.31	116.89	105.20
11	AB	5854	DT	P-O3'-C3'	-5.31	113.32	119.70
11	AB	7035	DT	P-O3'-C3'	-5.31	113.32	119.70
23	BA	28	DT	P-O3'-C3'	-5.31	113.32	119.70
130	L7	17	DT	P-O3'-C3'	-5.31	113.32	119.70
161	O8	30	DC	OP1-P-O3'	5.31	116.89	105.20
184	QD	2	DC	OP1-P-O3'	5.31	116.89	105.20
192	RC	29	DT	P-O3'-C3'	-5.31	113.32	119.70
230	W3	46	DC	OP1-P-O3'	5.31	116.89	105.20
11	AB	281	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	1446	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	1487	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	2554	DC	OP1-P-O3'	5.31	116.89	105.20
11	AB	2911	DC	OP1-P-O3'	5.31	116.89	105.20
11	AB	3182	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	3311	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	3437	DC	OP1-P-O3'	5.31	116.89	105.20
11	AB	3534	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	3978	DT	P-O3'-C3'	-5.31	113.32	119.70
11	AB	5268	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	5367	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	6033	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	6700	DT	P-O3'-C3'	-5.31	113.32	119.70
11	AB	6927	DC	OP1-P-O3'	5.31	116.89	105.20
41	D6	22	DC	OP1-P-O3'	5.31	116.89	105.20
87	H8	12	DC	OP1-P-O3'	5.31	116.89	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
90	HC	17	DC	OP1-P-O3'	5.31	116.89	105.20
105	J3	31	DC	OP1-P-O3'	5.31	116.89	105.20
111	JA	18	DC	OP1-P-O3'	5.31	116.89	105.20
113	JD	15	DT	P-O3'-C3'	-5.31	113.33	119.70
125	L1	26	DC	OP1-P-O3'	5.31	116.89	105.20
125	L1	30	DT	P-O3'-C3'	-5.31	113.33	119.70
135	LD	17	DC	OP1-P-O3'	5.31	116.89	105.20
138	M5	39	DT	P-O3'-C3'	-5.31	113.33	119.70
145	MD	22	DC	OP1-P-O3'	5.31	116.89	105.20
147	N3	14	DT	P-O3'-C3'	-5.31	113.32	119.70
147	N3	27	DT	P-O3'-C3'	-5.31	113.33	119.70
149	N6	39	DC	OP1-P-O3'	5.31	116.89	105.20
161	O8	43	DC	OP1-P-O3'	5.31	116.89	105.20
183	QC	22	DC	OP1-P-O3'	5.31	116.89	105.20
192	RC	12	DC	OP1-P-O3'	5.31	116.89	105.20
204	T3	9	DC	OP1-P-O3'	5.31	116.89	105.20
2	A2	16	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	493	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	1439	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	1503	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	1637	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	2768	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	3404	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	3415	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	4771	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	5076	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	5386	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	5405	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	6206	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	6951	DC	OP1-P-O3'	5.31	116.88	105.20
18	B5	9	DC	OP1-P-O3'	5.31	116.89	105.20
29	C5	19	DC	OP1-P-O3'	5.31	116.89	105.20
36	CD	12	DC	OP1-P-O3'	5.31	116.88	105.20
47	DD	11	DC	OP1-P-O3'	5.31	116.89	105.20
58	ED	39	DC	OP1-P-O3'	5.31	116.88	105.20
139	M6	2	DC	OP1-P-O3'	5.31	116.88	105.20
159	O6	2	DT	P-O3'-C3'	-5.31	113.33	119.70
165	OD	1	DC	OP1-P-O3'	5.31	116.88	105.20
167	P3	30	DC	OP1-P-O3'	5.31	116.88	105.20
183	QC	26	DT	P-O3'-C3'	-5.31	113.33	119.70
184	QD	10	DT	P-O3'-C3'	-5.31	113.33	119.70
190	R9	30	DC	OP1-P-O3'	5.31	116.89	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	45	DC	OP1-P-O3'	5.31	116.88	105.20
5	A5	12	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	76	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	947	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	1367	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	1463	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	2233	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	2724	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	3750	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	3807	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	4506	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	4639	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	4782	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	4972	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	4999	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	5246	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	5363	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	5462	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	5716	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	6355	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	6374	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	6467	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	6632	DC	OP1-P-O3'	5.31	116.88	105.20
21	B8	4	DT	P-O3'-C3'	-5.31	113.33	119.70
36	CD	1	DC	OP1-P-O3'	5.31	116.88	105.20
46	DC	18	DC	OP1-P-O3'	5.31	116.88	105.20
49	E2	2	DC	OP1-P-O3'	5.31	116.88	105.20
49	E2	21	DT	P-O3'-C3'	-5.31	113.33	119.70
50	E3	5	DC	OP1-P-O3'	5.31	116.88	105.20
53	E7	17	DC	OP1-P-O3'	5.31	116.88	105.20
82	H2	48	DC	OP1-P-O3'	5.31	116.88	105.20
114	K1	1	DC	OP1-P-O3'	5.31	116.88	105.20
114	K1	5	DC	OP1-P-O3'	5.31	116.88	105.20
120	K8	21	DC	OP1-P-O3'	5.31	116.88	105.20
121	K9	17	DT	P-O3'-C3'	-5.31	113.33	119.70
129	L6	9	DT	P-O3'-C3'	-5.31	113.33	119.70
140	M7	17	DC	OP1-P-O3'	5.31	116.88	105.20
147	N3	32	DT	P-O3'-C3'	-5.31	113.33	119.70
154	NC	16	DT	P-O3'-C3'	-5.31	113.33	119.70
177	Q3	15	DC	OP1-P-O3'	5.31	116.88	105.20
187	R5	1	DC	OP1-P-O3'	5.31	116.88	105.20
189	R8	19	DC	OP1-P-O3'	5.31	116.88	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
222	V3	19	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	549	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	643	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	672	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	1400	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	1719	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	1730	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	1778	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	2060	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	2137	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	2322	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	2915	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	3233	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	3433	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	4773	DC	OP1-P-O3'	5.31	116.87	105.20
11	AB	5684	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	5960	DC	OP1-P-O3'	5.31	116.88	105.20
11	AB	6461	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	6742	DC	OP1-P-O3'	5.31	116.88	105.20
35	CC	34	DC	OP1-P-O3'	5.31	116.88	105.20
61	F3	1	DC	OP1-P-O3'	5.31	116.88	105.20
91	HD	11	DC	OP1-P-O3'	5.31	116.88	105.20
91	HD	20	DC	OP1-P-O3'	5.31	116.88	105.20
94	I3	53	DT	P-O3'-C3'	-5.31	113.33	119.70
96	I6	18	DC	OP1-P-O3'	5.31	116.88	105.20
133	LA	15	DC	OP1-P-O3'	5.31	116.88	105.20
138	M5	4	DC	OP1-P-O3'	5.31	116.88	105.20
156	O2	5	DC	OP1-P-O3'	5.31	116.88	105.20
181	Q9	33	DT	P-O3'-C3'	-5.31	113.33	119.70
184	QD	23	DC	OP1-P-O3'	5.31	116.88	105.20
188	R7	11	DT	P-O3'-C3'	-5.31	113.33	119.70
188	R7	15	DC	OP1-P-O3'	5.31	116.88	105.20
192	RC	5	DC	OP1-P-O3'	5.31	116.88	105.20
196	S5	17	DC	OP1-P-O3'	5.31	116.88	105.20
198	S8	19	DC	OP1-P-O3'	5.31	116.88	105.20
206	T7	32	DC	OP1-P-O3'	5.31	116.88	105.20
210	TC	27	DC	OP1-P-O3'	5.31	116.88	105.20
4	A4	14	DC	OP1-P-O3'	5.31	116.87	105.20
11	AB	87	DC	OP1-P-O3'	5.31	116.87	105.20
11	AB	188	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	1070	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	2103	DC	OP1-P-O3'	5.31	116.87	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	2740	DC	OP1-P-O3'	5.31	116.87	105.20
11	AB	2771	DC	OP1-P-O3'	5.31	116.87	105.20
11	AB	4698	DT	P-O3'-C3'	-5.31	113.33	119.70
11	AB	5722	DC	OP1-P-O3'	5.31	116.87	105.20
11	AB	7232	DC	OP1-P-O3'	5.31	116.87	105.20
18	B5	22	DC	OP1-P-O3'	5.31	116.87	105.20
47	DD	39	DC	OP1-P-O3'	5.31	116.87	105.20
81	H1	10	DC	OP1-P-O3'	5.31	116.87	105.20
116	K3	21	DC	OP1-P-O3'	5.31	116.87	105.20
167	P3	12	DT	P-O3'-C3'	-5.31	113.33	119.70
228	VC	13	DC	OP1-P-O3'	5.31	116.87	105.20
10	AA	8	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	129	DT	P-O3'-C3'	-5.30	113.33	119.70
11	AB	487	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	527	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	677	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	758	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	1646	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	2580	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	2840	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	3222	DT	P-O3'-C3'	-5.30	113.33	119.70
11	AB	3560	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	3859	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	3869	DT	P-O3'-C3'	-5.30	113.33	119.70
11	AB	3898	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	4860	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	5137	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	5286	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	5809	DT	P-O3'-C3'	-5.30	113.33	119.70
11	AB	6028	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	6953	DC	OP1-P-O3'	5.30	116.87	105.20
21	B8	5	DT	P-O3'-C3'	-5.30	113.33	119.70
30	C6	29	DC	OP1-P-O3'	5.30	116.87	105.20
32	C8	23	DC	OP1-P-O3'	5.30	116.87	105.20
32	C8	40	DC	OP1-P-O3'	5.30	116.87	105.20
37	D1	29	DC	OP1-P-O3'	5.30	116.87	105.20
41	D6	20	DC	OP1-P-O3'	5.30	116.87	105.20
88	H9	5	DC	OP1-P-O3'	5.30	116.87	105.20
103	J1	14	DC	OP1-P-O3'	5.30	116.87	105.20
104	J2	19	DT	P-O3'-C3'	-5.30	113.33	119.70
122	KA	18	DC	OP1-P-O3'	5.30	116.87	105.20
140	M7	14	DC	OP1-P-O3'	5.30	116.87	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
148	N5	21	DC	OP1-P-O3'	5.30	116.87	105.20
161	O8	47	DT	P-O3'-C3'	-5.30	113.33	119.70
166	P2	18	DT	P-O3'-C3'	-5.30	113.33	119.70
202	SD	19	DC	OP1-P-O3'	5.30	116.87	105.20
205	T5	20	DC	OP1-P-O3'	5.30	116.87	105.20
209	TA	1	DC	OP1-P-O3'	5.30	116.87	105.20
235	WD	16	DC	OP1-P-O3'	5.30	116.87	105.20
237	X7	13	DC	OP1-P-O3'	5.30	116.87	105.20
237	X7	15	DC	OP1-P-O3'	5.30	116.87	105.20
238	X9	44	DC	OP1-P-O3'	5.30	116.87	105.20
238	X9	46	DT	P-O3'-C3'	-5.30	113.34	119.70
7	A7	16	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	2142	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	2934	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	2997	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	3396	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	3936	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	5040	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	5870	DC	OP1-P-O3'	5.30	116.87	105.20
11	AB	7047	DT	P-O3'-C3'	-5.30	113.34	119.70
49	E2	13	DC	OP1-P-O3'	5.30	116.87	105.20
55	E9	25	DC	OP1-P-O3'	5.30	116.87	105.20
114	K1	24	DC	OP1-P-O3'	5.30	116.87	105.20
158	O5	37	DC	OP1-P-O3'	5.30	116.87	105.20
164	OC	18	DT	P-O3'-C3'	-5.30	113.34	119.70
168	P5	5	DC	OP1-P-O3'	5.30	116.87	105.20
187	R5	16	DC	OP1-P-O3'	5.30	116.87	105.20
188	R7	20	DC	OP1-P-O3'	5.30	116.87	105.20
1	A1	13	DC	OP1-P-O3'	5.30	116.86	105.20
4	A4	26	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	1856	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	2462	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	2624	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	2652	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	3272	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	3371	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	4044	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	4299	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	4775	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	5206	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	5255	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	5334	DC	OP1-P-O3'	5.30	116.86	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5484	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	6364	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	6690	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	6876	DC	OP1-P-O3'	5.30	116.86	105.20
41	D6	13	DC	OP1-P-O3'	5.30	116.86	105.20
48	E1	30	DC	OP1-P-O3'	5.30	116.86	105.20
57	EC	4	DC	OP1-P-O3'	5.30	116.86	105.20
65	F8	6	DC	OP1-P-O3'	5.30	116.86	105.20
94	I3	21	DC	OP1-P-O3'	5.30	116.86	105.20
98	I8	9	DC	OP1-P-O3'	5.30	116.86	105.20
99	I9	22	DC	OP1-P-O3'	5.30	116.86	105.20
109	J8	18	DC	OP1-P-O3'	5.30	116.86	105.20
120	K8	15	DC	OP1-P-O3'	5.30	116.86	105.20
138	M5	2	DC	OP1-P-O3'	5.30	116.86	105.20
141	M8	9	DC	OP1-P-O3'	5.30	116.86	105.20
157	O3	7	DC	OP1-P-O3'	5.30	116.86	105.20
160	O7	22	DT	P-O3'-C3'	-5.30	113.34	119.70
182	QA	21	DC	OP1-P-O3'	5.30	116.86	105.20
184	QD	5	DC	OP1-P-O3'	5.30	116.86	105.20
187	R5	34	DC	OP1-P-O3'	5.30	116.86	105.20
189	R8	38	DC	OP1-P-O3'	5.30	116.86	105.20
194	S2	22	DC	OP1-P-O3'	5.30	116.86	105.20
198	S8	14	DC	OP1-P-O3'	5.30	116.86	105.20
217	U9	9	DC	OP1-P-O3'	5.30	116.86	105.20
227	VA	1	DC	OP1-P-O3'	5.30	116.86	105.20
231	W5	16	DC	OP1-P-O3'	5.30	116.86	105.20
237	X7	17	DC	OP1-P-O3'	5.30	116.86	105.20
1	A1	16	DC	OP1-P-O3'	5.30	116.86	105.20
2	A2	27	DT	P-O3'-C3'	-5.30	113.34	119.70
7	A7	6	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	572	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	848	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	2467	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	2613	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	3077	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	3147	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	3718	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	3733	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	3770	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	4341	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	4379	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	4673	DC	OP1-P-O3'	5.30	116.86	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5472	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	6040	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	6241	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	6272	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	6367	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	6659	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	6770	DT	P-O3'-C3'	-5.30	113.34	119.70
35	CC	32	DC	OP1-P-O3'	5.30	116.86	105.20
52	E6	13	DC	OP1-P-O3'	5.30	116.86	105.20
52	E6	18	DC	OP1-P-O3'	5.30	116.86	105.20
62	F5	33	DC	OP1-P-O3'	5.30	116.86	105.20
68	FC	18	DC	OP1-P-O3'	5.30	116.86	105.20
69	FD	17	DC	OP1-P-O3'	5.30	116.86	105.20
69	FD	29	DC	OP1-P-O3'	5.30	116.86	105.20
87	H8	24	DC	OP1-P-O3'	5.30	116.86	105.20
96	I6	6	DT	P-O3'-C3'	-5.30	113.34	119.70
109	J8	13	DC	OP1-P-O3'	5.30	116.86	105.20
124	KD	14	DC	OP1-P-O3'	5.30	116.86	105.20
146	N2	1	DC	OP1-P-O3'	5.30	116.86	105.20
147	N3	30	DC	OP1-P-O3'	5.30	116.86	105.20
155	ND	5	DC	OP1-P-O3'	5.30	116.86	105.20
167	P3	35	DC	OP1-P-O3'	5.30	116.86	105.20
171	P8	27	DC	OP1-P-O3'	5.30	116.86	105.20
172	P9	10	DT	P-O3'-C3'	-5.30	113.34	119.70
181	Q9	9	DT	P-O3'-C3'	-5.30	113.34	119.70
194	S2	16	DC	OP1-P-O3'	5.30	116.86	105.20
195	S3	8	DC	OP1-P-O3'	5.30	116.86	105.20
201	SC	6	DC	OP1-P-O3'	5.30	116.86	105.20
201	SC	9	DC	OP1-P-O3'	5.30	116.86	105.20
205	T5	4	DC	OP1-P-O3'	5.30	116.86	105.20
234	W9	5	DC	OP1-P-O3'	5.30	116.86	105.20
1	A1	34	DC	OP1-P-O3'	5.30	116.86	105.20
5	A5	15	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	588	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	718	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	2788	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	3631	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	3655	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	6852	DC	OP1-P-O3'	5.30	116.86	105.20
11	AB	7085	DC	OP1-P-O3'	5.30	116.86	105.20
14	B1	41	DC	OP1-P-O3'	5.30	116.86	105.20
32	C8	9	DC	OP1-P-O3'	5.30	116.86	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	D1	19	DC	OP1-P-O3'	5.30	116.86	105.20
52	E6	35	DC	OP1-P-O3'	5.30	116.86	105.20
71	G2	8	DC	OP1-P-O3'	5.30	116.86	105.20
79	GC	8	DC	OP1-P-O3'	5.30	116.86	105.20
82	H2	8	DC	OP1-P-O3'	5.30	116.86	105.20
94	I3	11	DC	OP1-P-O3'	5.30	116.86	105.20
105	J3	25	DT	P-O3'-C3'	-5.30	113.34	119.70
130	L7	22	DC	OP1-P-O3'	5.30	116.86	105.20
140	M7	2	DC	OP1-P-O3'	5.30	116.86	105.20
156	O2	31	DC	OP1-P-O3'	5.30	116.86	105.20
206	T7	30	DC	OP1-P-O3'	5.30	116.86	105.20
223	V5	38	DC	OP1-P-O3'	5.30	116.86	105.20
1	A1	21	DC	OP1-P-O3'	5.30	116.85	105.20
1	A1	31	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	241	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	2474	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	2563	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	2969	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	3081	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	3875	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	4026	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	4445	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	4708	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	4984	DT	P-O3'-C3'	-5.30	113.34	119.70
11	AB	5218	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	5351	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	5626	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	5858	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	6535	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	6607	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	6635	DT	P-O3'-C3'	-5.30	113.34	119.70
14	B1	5	DC	OP1-P-O3'	5.30	116.85	105.20
76	G8	8	DC	OP1-P-O3'	5.30	116.85	105.20
80	GD	14	DC	OP1-P-O3'	5.30	116.85	105.20
82	H2	40	DC	OP1-P-O3'	5.30	116.85	105.20
85	H6	11	DC	OP1-P-O3'	5.30	116.85	105.20
95	I5	15	DC	OP1-P-O3'	5.30	116.85	105.20
97	I7	22	DC	OP1-P-O3'	5.30	116.85	105.20
104	J2	5	DC	OP1-P-O3'	5.30	116.85	105.20
106	J5	2	DC	OP1-P-O3'	5.30	116.85	105.20
112	JC	10	DC	OP1-P-O3'	5.30	116.85	105.20
115	K2	29	DC	OP1-P-O3'	5.30	116.85	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
117	K5	41	DC	OP1-P-O3'	5.30	116.85	105.20
122	KA	25	DC	OP1-P-O3'	5.30	116.85	105.20
124	KD	1	DC	OP1-P-O3'	5.30	116.85	105.20
125	L1	13	DC	OP1-P-O3'	5.30	116.85	105.20
126	L2	19	DC	OP1-P-O3'	5.30	116.85	105.20
164	OC	20	DC	OP1-P-O3'	5.30	116.85	105.20
173	PA	29	DC	OP1-P-O3'	5.30	116.85	105.20
185	R2	16	DC	OP1-P-O3'	5.30	116.85	105.20
189	R8	23	DC	OP1-P-O3'	5.30	116.85	105.20
192	RC	23	DC	OP1-P-O3'	5.30	116.85	105.20
194	S2	26	DT	P-O3'-C3'	-5.30	113.34	119.70
196	S5	14	DC	OP1-P-O3'	5.30	116.85	105.20
197	S7	2	DC	OP1-P-O3'	5.30	116.85	105.20
221	V2	20	DC	OP1-P-O3'	5.30	116.85	105.20
226	V9	31	DC	OP1-P-O3'	5.30	116.85	105.20
229	VD	15	DC	OP1-P-O3'	5.30	116.85	105.20
233	W8	8	DC	OP1-P-O3'	5.30	116.85	105.20
237	X7	20	DC	OP1-P-O3'	5.30	116.85	105.20
11	AB	108	DT	P-O3'-C3'	-5.29	113.34	119.70
11	AB	1176	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	1294	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	1431	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	3713	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	4452	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	4584	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	4910	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	4931	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	5037	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	5188	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	5546	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	6685	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	6934	DC	OP1-P-O3'	5.29	116.85	105.20
18	B5	25	DC	OP1-P-O3'	5.29	116.85	105.20
73	G5	20	DC	OP1-P-O3'	5.29	116.85	105.20
93	I2	9	DC	OP1-P-O3'	5.29	116.85	105.20
93	I2	13	DC	OP1-P-O3'	5.29	116.85	105.20
99	I9	11	DC	OP1-P-O3'	5.29	116.85	105.20
130	L7	25	DC	OP1-P-O3'	5.29	116.85	105.20
142	M9	13	DT	P-O3'-C3'	-5.29	113.34	119.70
143	MA	24	DC	OP1-P-O3'	5.29	116.85	105.20
165	OD	44	DC	OP1-P-O3'	5.29	116.85	105.20
175	PD	11	DC	OP1-P-O3'	5.29	116.85	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
189	R8	35	DC	OP1-P-O3'	5.29	116.85	105.20
190	R9	41	DC	OP1-P-O3'	5.29	116.85	105.20
202	SD	26	DC	OP1-P-O3'	5.29	116.85	105.20
210	TC	22	DC	OP1-P-O3'	5.29	116.85	105.20
7	A7	23	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	34	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	45	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	58	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	636	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	975	DT	P-O3'-C3'	-5.29	113.35	119.70
11	AB	1044	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	2547	DT	P-O3'-C3'	-5.29	113.35	119.70
11	AB	2557	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	2730	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	3057	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	3064	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	3535	DT	P-O3'-C3'	-5.29	113.35	119.70
11	AB	4053	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	4668	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	4703	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	4717	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	4765	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	5106	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	5120	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	5943	DT	P-O3'-C3'	-5.29	113.35	119.70
11	AB	5947	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	6043	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	6059	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	6726	DC	OP1-P-O3'	5.29	116.85	105.20
11	AB	7021	DC	OP1-P-O3'	5.29	116.85	105.20
43	D8	31	DC	OP1-P-O3'	5.29	116.84	105.20
50	E3	15	DC	OP1-P-O3'	5.29	116.84	105.20
58	ED	12	DC	OP1-P-O3'	5.29	116.84	105.20
59	F1	13	DC	OP1-P-O3'	5.29	116.84	105.20
62	F5	14	DC	OP1-P-O3'	5.29	116.85	105.20
64	F7	17	DC	OP1-P-O3'	5.29	116.85	105.20
65	F8	12	DC	OP1-P-O3'	5.29	116.85	105.20
82	H2	22	DC	OP1-P-O3'	5.29	116.84	105.20
83	H3	38	DC	OP1-P-O3'	5.29	116.84	105.20
93	I2	5	DC	OP1-P-O3'	5.29	116.85	105.20
98	I8	21	DC	OP1-P-O3'	5.29	116.85	105.20
100	IA	21	DC	OP1-P-O3'	5.29	116.85	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
104	J2	8	DC	OP1-P-O3'	5.29	116.85	105.20
127	L3	11	DC	OP1-P-O3'	5.29	116.85	105.20
128	L5	18	DC	OP1-P-O3'	5.29	116.85	105.20
132	L9	16	DC	OP1-P-O3'	5.29	116.85	105.20
142	M9	6	DC	OP1-P-O3'	5.29	116.84	105.20
149	N6	32	DC	OP1-P-O3'	5.29	116.84	105.20
173	PA	11	DC	OP1-P-O3'	5.29	116.84	105.20
184	QD	15	DC	OP1-P-O3'	5.29	116.85	105.20
186	R3	7	DC	OP1-P-O3'	5.29	116.84	105.20
212	U2	26	DC	OP1-P-O3'	5.29	116.85	105.20
219	UC	25	DC	OP1-P-O3'	5.29	116.85	105.20
223	V5	26	DC	OP1-P-O3'	5.29	116.84	105.20
227	VA	17	DC	OP1-P-O3'	5.29	116.85	105.20
238	X9	33	DC	OP1-P-O3'	5.29	116.85	105.20
1	A1	11	DC	OP1-P-O3'	5.29	116.84	105.20
2	A2	5	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	774	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	1129	DT	P-O3'-C3'	-5.29	113.35	119.70
11	AB	1790	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	2216	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	2315	DT	P-O3'-C3'	-5.29	113.35	119.70
11	AB	3569	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	3586	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	3804	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	4108	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	4442	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	4546	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	5566	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	5985	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	6299	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	6819	DC	OP1-P-O3'	5.29	116.84	105.20
18	B5	37	DC	OP1-P-O3'	5.29	116.84	105.20
24	BC	16	DC	OP1-P-O3'	5.29	116.84	105.20
32	C8	5	DC	OP1-P-O3'	5.29	116.84	105.20
48	E1	18	DC	OP1-P-O3'	5.29	116.84	105.20
49	E2	11	DT	P-O3'-C3'	-5.29	113.35	119.70
67	FA	12	DC	OP1-P-O3'	5.29	116.84	105.20
69	FD	3	DC	OP1-P-O3'	5.29	116.84	105.20
71	G2	20	DC	OP1-P-O3'	5.29	116.84	105.20
100	IA	9	DC	OP1-P-O3'	5.29	116.84	105.20
106	J5	24	DC	OP1-P-O3'	5.29	116.84	105.20
107	J6	3	DC	OP1-P-O3'	5.29	116.84	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
112	JC	6	DC	OP1-P-O3'	5.29	116.84	105.20
127	L3	2	DC	OP1-P-O3'	5.29	116.84	105.20
134	LC	5	DC	OP1-P-O3'	5.29	116.84	105.20
137	M3	32	DC	OP1-P-O3'	5.29	116.84	105.20
142	M9	18	DC	OP1-P-O3'	5.29	116.84	105.20
160	O7	2	DC	OP1-P-O3'	5.29	116.84	105.20
160	O7	45	DC	OP1-P-O3'	5.29	116.84	105.20
161	O8	34	DC	OP1-P-O3'	5.29	116.84	105.20
211	TD	30	DC	OP1-P-O3'	5.29	116.84	105.20
228	VC	5	DC	OP1-P-O3'	5.29	116.84	105.20
238	X9	50	DC	OP1-P-O3'	5.29	116.84	105.20
5	A5	34	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	1251	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	2166	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	2388	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	3107	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	3699	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	3921	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	4077	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	4386	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	5427	DC	OP1-P-O3'	5.29	116.84	105.20
14	B1	22	DC	OP1-P-O3'	5.29	116.84	105.20
22	B9	39	DT	P-O3'-C3'	-5.29	113.35	119.70
36	CD	9	DC	OP1-P-O3'	5.29	116.84	105.20
75	G7	22	DC	OP1-P-O3'	5.29	116.84	105.20
82	H2	12	DC	OP1-P-O3'	5.29	116.84	105.20
93	I2	31	DC	OP1-P-O3'	5.29	116.84	105.20
104	J2	22	DC	OP1-P-O3'	5.29	116.84	105.20
114	K1	17	DC	OP1-P-O3'	5.29	116.84	105.20
116	K3	8	DC	OP1-P-O3'	5.29	116.84	105.20
146	N2	5	DC	OP1-P-O3'	5.29	116.84	105.20
166	P2	24	DC	OP1-P-O3'	5.29	116.84	105.20
181	Q9	17	DC	OP1-P-O3'	5.29	116.84	105.20
193	RD	8	DC	OP1-P-O3'	5.29	116.84	105.20
201	SC	1	DC	OP1-P-O3'	5.29	116.84	105.20
205	T5	8	DC	OP1-P-O3'	5.29	116.84	105.20
230	W3	17	DC	OP1-P-O3'	5.29	116.84	105.20
6	A6	10	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	819	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	1319	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	1421	DT	P-O3'-C3'	-5.29	113.35	119.70
11	AB	1714	DC	OP1-P-O3'	5.29	116.83	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1899	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	2289	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	3533	DT	P-O3'-C3'	-5.29	113.35	119.70
11	AB	4945	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	5220	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	5416	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	5535	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	5890	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	6091	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	6212	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	6647	DC	OP1-P-O3'	5.29	116.84	105.20
11	AB	7209	DC	OP1-P-O3'	5.29	116.83	105.20
12	AC	7	DC	OP1-P-O3'	5.29	116.84	105.20
21	B8	8	DC	OP1-P-O3'	5.29	116.84	105.20
48	E1	9	DC	OP1-P-O3'	5.29	116.84	105.20
62	F5	4	DC	OP1-P-O3'	5.29	116.83	105.20
66	F9	12	DC	OP1-P-O3'	5.29	116.84	105.20
75	G7	3	DC	OP1-P-O3'	5.29	116.83	105.20
78	GA	6	DC	OP1-P-O3'	5.29	116.83	105.20
84	H5	31	DC	OP1-P-O3'	5.29	116.83	105.20
89	HA	22	DC	OP1-P-O3'	5.29	116.84	105.20
93	I2	2	DC	OP1-P-O3'	5.29	116.83	105.20
103	J1	17	DC	OP1-P-O3'	5.29	116.83	105.20
117	K5	48	DC	OP1-P-O3'	5.29	116.84	105.20
126	L2	58	DC	OP1-P-O3'	5.29	116.84	105.20
143	MA	36	DC	OP1-P-O3'	5.29	116.84	105.20
147	N3	34	DC	OP1-P-O3'	5.29	116.84	105.20
149	N6	12	DC	OP1-P-O3'	5.29	116.83	105.20
156	O2	23	DC	OP1-P-O3'	5.29	116.83	105.20
160	O7	31	DC	OP1-P-O3'	5.29	116.83	105.20
179	Q7	18	DC	OP1-P-O3'	5.29	116.83	105.20
189	R8	29	DC	OP1-P-O3'	5.29	116.83	105.20
204	T3	41	DC	OP1-P-O3'	5.29	116.83	105.20
210	TC	8	DC	OP1-P-O3'	5.29	116.83	105.20
214	U5	3	DC	OP1-P-O3'	5.29	116.83	105.20
238	X9	22	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	707	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	2744	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	3121	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	3495	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	4250	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	4926	DC	OP1-P-O3'	5.29	116.83	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5738	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	6506	DC	OP1-P-O3'	5.29	116.83	105.20
45	DA	16	DC	OP1-P-O3'	5.29	116.83	105.20
49	E2	19	DC	OP1-P-O3'	5.29	116.83	105.20
73	G5	5	DC	OP1-P-O3'	5.29	116.83	105.20
125	L1	20	DC	OP1-P-O3'	5.29	116.83	105.20
151	N8	9	DC	OP1-P-O3'	5.29	116.83	105.20
160	O7	33	DC	OP1-P-O3'	5.29	116.83	105.20
203	T2	24	DC	OP1-P-O3'	5.29	116.83	105.20
213	U3	25	DC	OP1-P-O3'	5.29	116.83	105.20
216	U8	16	DC	OP1-P-O3'	5.29	116.83	105.20
3	A3	2	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	512	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	662	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	702	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	2079	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	3005	DT	P-O3'-C3'	-5.29	113.36	119.70
11	AB	3590	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	3835	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	4199	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	4478	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	4497	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	5311	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	5513	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	5926	DC	OP1-P-O3'	5.29	116.83	105.20
11	AB	6731	DC	OP1-P-O3'	5.29	116.83	105.20
19	B6	12	DC	OP1-P-O3'	5.29	116.83	105.20
20	B7	11	DC	OP1-P-O3'	5.29	116.83	105.20
21	B8	20	DC	OP1-P-O3'	5.29	116.83	105.20
44	D9	1	DC	OP1-P-O3'	5.29	116.83	105.20
54	E8	35	DC	OP1-P-O3'	5.29	116.83	105.20
80	GD	5	DC	OP1-P-O3'	5.29	116.83	105.20
109	J8	9	DC	OP1-P-O3'	5.29	116.83	105.20
134	LC	8	DC	OP1-P-O3'	5.29	116.83	105.20
138	M5	13	DC	OP1-P-O3'	5.29	116.83	105.20
139	M6	10	DC	OP1-P-O3'	5.29	116.83	105.20
149	N6	42	DC	OP1-P-O3'	5.29	116.83	105.20
152	N9	34	DC	OP1-P-O3'	5.29	116.83	105.20
161	O8	20	DC	OP1-P-O3'	5.29	116.83	105.20
174	PC	24	DC	OP1-P-O3'	5.29	116.83	105.20
180	Q8	13	DC	OP1-P-O3'	5.29	116.83	105.20
193	RD	5	DC	OP1-P-O3'	5.29	116.83	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
199	S9	15	DC	OP1-P-O3'	5.29	116.83	105.20
238	X9	14	DC	OP1-P-O3'	5.29	116.83	105.20
4	A4	17	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	105	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	1230	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	2179	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	2448	DC	OP1-P-O3'	5.28	116.83	105.20
11	AB	2636	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	2837	DC	OP1-P-O3'	5.28	116.83	105.20
11	AB	3379	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	4122	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	4577	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	4659	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	4692	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	4792	DC	OP1-P-O3'	5.28	116.83	105.20
11	AB	5114	DC	OP1-P-O3'	5.28	116.83	105.20
11	AB	5705	DC	OP1-P-O3'	5.28	116.83	105.20
11	AB	6065	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	7120	DC	OP1-P-O3'	5.28	116.82	105.20
15	B2	8	DC	OP1-P-O3'	5.28	116.82	105.20
32	C8	30	DC	OP1-P-O3'	5.28	116.82	105.20
32	C8	34	DC	OP1-P-O3'	5.28	116.82	105.20
75	G7	28	DC	OP1-P-O3'	5.28	116.83	105.20
78	GA	16	DC	OP1-P-O3'	5.28	116.83	105.20
79	GC	25	DC	OP1-P-O3'	5.28	116.82	105.20
84	H5	38	DC	OP1-P-O3'	5.28	116.82	105.20
96	I6	15	DC	OP1-P-O3'	5.28	116.82	105.20
97	I7	5	DC	OP1-P-O3'	5.28	116.82	105.20
104	J2	32	DC	OP1-P-O3'	5.28	116.82	105.20
109	J8	15	DC	OP1-P-O3'	5.28	116.82	105.20
122	KA	31	DC	OP1-P-O3'	5.28	116.83	105.20
126	L2	46	DC	OP1-P-O3'	5.28	116.82	105.20
136	M2	19	DC	OP1-P-O3'	5.28	116.82	105.20
145	MD	27	DC	OP1-P-O3'	5.28	116.83	105.20
153	NA	9	DC	OP1-P-O3'	5.28	116.83	105.20
171	P8	8	DT	P-O3'-C3'	-5.28	113.36	119.70
238	X9	12	DC	OP1-P-O3'	5.28	116.82	105.20
1	A1	7	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	4369	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	6845	DC	OP1-P-O3'	5.28	116.82	105.20
23	BA	18	DC	OP1-P-O3'	5.28	116.82	105.20
77	G9	12	DC	OP1-P-O3'	5.28	116.82	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
98	I8	13	DC	OP1-P-O3'	5.28	116.82	105.20
131	L8	8	DC	OP1-P-O3'	5.28	116.82	105.20
194	S2	2	DC	OP1-P-O3'	5.28	116.82	105.20
195	S3	14	DC	OP1-P-O3'	5.28	116.82	105.20
199	S9	12	DC	OP1-P-O3'	5.28	116.82	105.20
224	V7	12	DC	OP1-P-O3'	5.28	116.82	105.20
7	A7	31	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	229	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	325	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	721	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	813	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	1185	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	1426	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	1843	DT	P-O3'-C3'	-5.28	113.36	119.70
11	AB	3346	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	4382	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	5143	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	5850	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	6016	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	6696	DC	OP1-P-O3'	5.28	116.82	105.20
13	AD	9	DC	OP1-P-O3'	5.28	116.82	105.20
13	AD	29	DC	OP1-P-O3'	5.28	116.82	105.20
29	C5	14	DC	OP1-P-O3'	5.28	116.81	105.20
38	D2	9	DC	OP1-P-O3'	5.28	116.82	105.20
66	F9	8	DC	OP1-P-O3'	5.28	116.82	105.20
90	HC	10	DC	OP1-P-O3'	5.28	116.82	105.20
92	I1	18	DC	OP1-P-O3'	5.28	116.82	105.20
126	L2	40	DC	OP1-P-O3'	5.28	116.82	105.20
126	L2	43	DC	OP1-P-O3'	5.28	116.82	105.20
130	L7	45	DT	P-O3'-C3'	-5.28	113.36	119.70
145	MD	4	DC	OP1-P-O3'	5.28	116.82	105.20
149	N6	7	DC	OP1-P-O3'	5.28	116.82	105.20
163	OA	18	DC	OP1-P-O3'	5.28	116.82	105.20
164	OC	24	DC	OP1-P-O3'	5.28	116.82	105.20
193	RD	19	DC	OP1-P-O3'	5.28	116.82	105.20
197	S7	15	DC	OP1-P-O3'	5.28	116.82	105.20
226	V9	13	DC	OP1-P-O3'	5.28	116.82	105.20
11	AB	1109	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	1887	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	2319	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	2374	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	3412	DC	OP1-P-O3'	5.28	116.81	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3470	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	3608	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	4615	DC	OP1-P-O3'	5.28	116.81	105.20
27	C2	16	DC	OP1-P-O3'	5.28	116.81	105.20
37	D1	22	DC	OP1-P-O3'	5.28	116.81	105.20
38	D2	3	DC	OP1-P-O3'	5.28	116.81	105.20
56	EA	22	DC	OP1-P-O3'	5.28	116.81	105.20
63	F6	12	DC	OP1-P-O3'	5.28	116.81	105.20
86	H7	6	DC	OP1-P-O3'	5.28	116.81	105.20
90	HC	23	DC	OP1-P-O3'	5.28	116.81	105.20
117	K5	8	DC	OP1-P-O3'	5.28	116.81	105.20
137	M3	8	DC	OP1-P-O3'	5.28	116.81	105.20
207	T8	12	DC	OP1-P-O3'	5.28	116.81	105.20
209	TA	41	DC	OP1-P-O3'	5.28	116.81	105.20
211	TD	11	DC	OP1-P-O3'	5.28	116.81	105.20
215	U7	7	DC	OP1-P-O3'	5.28	116.81	105.20
10	AA	12	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	198	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	837	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	994	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	1438	DT	P-O3'-C3'	-5.28	113.37	119.70
11	AB	1581	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	3169	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	3215	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	4129	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	4530	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	5624	DC	OP1-P-O3'	5.28	116.81	105.20
18	B5	6	DC	OP1-P-O3'	5.28	116.81	105.20
36	CD	23	DC	OP1-P-O3'	5.28	116.81	105.20
45	DA	25	DC	OP1-P-O3'	5.28	116.81	105.20
47	DD	30	DC	OP1-P-O3'	5.28	116.81	105.20
52	E6	26	DC	OP1-P-O3'	5.28	116.81	105.20
54	E8	15	DC	OP1-P-O3'	5.28	116.81	105.20
69	FD	38	DC	OP1-P-O3'	5.28	116.81	105.20
109	J8	3	DC	OP1-P-O3'	5.28	116.81	105.20
117	K5	23	DC	OP1-P-O3'	5.28	116.81	105.20
120	K8	2	DC	OP1-P-O3'	5.28	116.81	105.20
123	KC	25	DC	OP1-P-O3'	5.28	116.81	105.20
131	L8	18	DC	OP1-P-O3'	5.28	116.81	105.20
143	MA	18	DC	OP1-P-O3'	5.28	116.81	105.20
148	N5	14	DC	OP1-P-O3'	5.28	116.81	105.20
156	O2	2	DC	OP1-P-O3'	5.28	116.81	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
156	O2	46	DC	OP1-P-O3'	5.28	116.81	105.20
167	P3	16	DC	OP1-P-O3'	5.28	116.81	105.20
183	QC	7	DC	OP1-P-O3'	5.28	116.81	105.20
192	RC	8	DC	OP1-P-O3'	5.28	116.81	105.20
203	T2	11	DC	OP1-P-O3'	5.28	116.81	105.20
205	T5	14	DC	OP1-P-O3'	5.28	116.81	105.20
208	T9	15	DC	OP1-P-O3'	5.28	116.81	105.20
4	A4	6	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	376	DT	P-O3'-C3'	-5.28	113.37	119.70
11	AB	1207	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	2746	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	2854	DC	OP1-P-O3'	5.28	116.80	105.20
11	AB	3462	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	4177	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	4565	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	4713	DT	P-O3'-C3'	-5.28	113.37	119.70
11	AB	4851	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	5170	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	5602	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	5633	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	6401	DC	OP1-P-O3'	5.28	116.81	105.20
11	AB	6866	DC	OP1-P-O3'	5.28	116.81	105.20
45	DA	7	DC	OP1-P-O3'	5.28	116.81	105.20
47	DD	8	DC	OP1-P-O3'	5.28	116.81	105.20
75	G7	10	DC	OP1-P-O3'	5.28	116.81	105.20
101	IC	6	DC	OP1-P-O3'	5.28	116.81	105.20
108	J7	22	DC	OP1-P-O3'	5.28	116.81	105.20
108	J7	46	DC	OP1-P-O3'	5.28	116.81	105.20
126	L2	5	DC	OP1-P-O3'	5.28	116.81	105.20
126	L2	29	DC	OP1-P-O3'	5.28	116.81	105.20
158	O5	21	DC	OP1-P-O3'	5.28	116.81	105.20
164	OC	6	DC	OP1-P-O3'	5.28	116.81	105.20
169	P6	14	DC	OP1-P-O3'	5.28	116.81	105.20
6	A6	17	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	605	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	5989	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	6973	DC	OP1-P-O3'	5.27	116.80	105.20
30	C6	23	DC	OP1-P-O3'	5.27	116.80	105.20
54	E8	12	DT	P-O3'-C3'	-5.27	113.37	119.70
75	G7	19	DC	OP1-P-O3'	5.27	116.80	105.20
125	L1	41	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	146	DC	OP1-P-O3'	5.27	116.80	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	728	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	2684	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	3839	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	4287	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	6082	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	7141	DC	OP1-P-O3'	5.27	116.80	105.20
57	EC	2	DC	OP1-P-O3'	5.27	116.80	105.20
75	G7	15	DC	OP1-P-O3'	5.27	116.80	105.20
128	L5	21	DC	OP1-P-O3'	5.27	116.80	105.20
158	O5	14	DC	OP1-P-O3'	5.27	116.80	105.20
214	U5	15	DC	OP1-P-O3'	5.27	116.80	105.20
220	UD	20	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	5146	DC	OP1-P-O3'	5.27	116.80	105.20
99	I9	3	DC	OP1-P-O3'	5.27	116.80	105.20
118	K6	11	DC	OP1-P-O3'	5.27	116.80	105.20
128	L5	11	DC	OP1-P-O3'	5.27	116.80	105.20
140	M7	11	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	1548	DC	OP1-P-O3'	5.27	116.79	105.20
11	AB	4526	DC	OP1-P-O3'	5.27	116.80	105.20
11	AB	4696	DC	OP1-P-O3'	5.27	116.79	105.20
11	AB	6031	DC	OP1-P-O3'	5.27	116.79	105.20
26	C1	25	DC	OP1-P-O3'	5.27	116.79	105.20
31	C7	31	DC	OP1-P-O3'	5.27	116.79	105.20
60	F2	2	DC	OP1-P-O3'	5.27	116.79	105.20
139	M6	24	DC	OP1-P-O3'	5.27	116.79	105.20
149	N6	47	DC	OP1-P-O3'	5.27	116.79	105.20
180	Q8	6	DC	OP1-P-O3'	5.27	116.79	105.20
11	AB	169	DC	OP1-P-O3'	5.27	116.79	105.20
11	AB	237	DC	OP1-P-O3'	5.27	116.79	105.20
11	AB	3187	DC	OP1-P-O3'	5.27	116.79	105.20
11	AB	4261	DC	OP1-P-O3'	5.27	116.79	105.20
11	AB	4363	DT	P-O3'-C3'	-5.27	113.38	119.70
11	AB	7239	DC	OP1-P-O3'	5.27	116.79	105.20
60	F2	34	DC	OP1-P-O3'	5.27	116.79	105.20
62	F5	25	DC	OP1-P-O3'	5.27	116.79	105.20
63	F6	15	DC	OP1-P-O3'	5.27	116.79	105.20
137	M3	30	DC	OP1-P-O3'	5.27	116.79	105.20
147	N3	10	DC	OP1-P-O3'	5.27	116.79	105.20
149	N6	19	DC	OP1-P-O3'	5.27	116.79	105.20
213	U3	22	DC	OP1-P-O3'	5.27	116.79	105.20
225	V8	26	DC	OP1-P-O3'	5.27	116.79	105.20
234	W9	18	DC	OP1-P-O3'	5.27	116.79	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
235	WD	8	DC	OP1-P-O3'	5.27	116.79	105.20
11	AB	4512	DC	OP1-P-O3'	5.27	116.78	105.20
11	AB	5637	DC	OP1-P-O3'	5.27	116.78	105.20
22	B9	36	DC	OP1-P-O3'	5.27	116.79	105.20
140	M7	6	DC	OP1-P-O3'	5.27	116.78	105.20
143	MA	47	DC	OP1-P-O3'	5.27	116.78	105.20
156	O2	50	DC	OP1-P-O3'	5.27	116.79	105.20
160	O7	40	DC	OP1-P-O3'	5.27	116.79	105.20
231	W5	32	DC	OP1-P-O3'	5.27	116.78	105.20
11	AB	370	DC	OP1-P-O3'	5.26	116.78	105.20
11	AB	612	DC	OP1-P-O3'	5.26	116.78	105.20
11	AB	3023	DC	OP1-P-O3'	5.26	116.78	105.20
11	AB	5161	DC	OP1-P-O3'	5.26	116.78	105.20
11	AB	6314	DC	OP1-P-O3'	5.26	116.78	105.20
44	D9	13	DC	OP1-P-O3'	5.26	116.78	105.20
188	R7	23	DC	OP1-P-O3'	5.26	116.78	105.20
223	V5	30	DC	OP1-P-O3'	5.26	116.78	105.20
11	AB	1864	DC	OP1-P-O3'	5.26	116.78	105.20
11	AB	5451	DC	OP1-P-O3'	5.26	116.78	105.20
11	AB	6961	DC	OP1-P-O3'	5.26	116.78	105.20
107	J6	18	DC	OP1-P-O3'	5.26	116.78	105.20
164	OC	8	DC	OP1-P-O3'	5.26	116.78	105.20
10	AA	5	DC	OP1-P-O3'	5.26	116.78	105.20
11	AB	250	DC	OP1-P-O3'	5.26	116.78	105.20
63	F6	21	DC	OP1-P-O3'	5.26	116.77	105.20
146	N2	15	DC	OP1-P-O3'	5.26	116.78	105.20
11	AB	6661	DC	OP1-P-O3'	5.26	116.77	105.20
13	AD	18	DC	OP1-P-O3'	5.26	116.77	105.20
11	AB	6143	DT	P-O3'-C3'	-5.26	113.39	119.70
130	L7	32	DC	OP1-P-O3'	5.26	116.77	105.20
200	SA	27	DC	OP1-P-O3'	5.26	116.77	105.20
202	SD	23	DC	OP1-P-O3'	5.26	116.76	105.20
20	B7	19	DC	OP1-P-O3'	5.25	116.76	105.20
11	AB	1061	DC	OP1-P-O3'	5.25	116.76	105.20
11	AB	3110	DC	OP1-P-O3'	5.25	116.76	105.20
11	AB	3454	DC	OP1-P-O3'	5.25	116.75	105.20
61	F3	21	DC	OP1-P-O3'	5.25	116.75	105.20
95	I5	36	DG	P-O3'-C3'	-5.23	113.43	119.70
11	AB	7221	DT	P-O3'-C3'	-5.22	113.43	119.70
11	AB	5276	DG	P-O3'-C3'	-5.22	113.43	119.70
11	AB	345	DG	P-O3'-C3'	-5.22	113.44	119.70
28	C3	14	DG	P-O3'-C3'	-5.22	113.44	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5972	DG	P-O3'-C3'	-5.22	113.44	119.70
11	AB	780	DG	P-O3'-C3'	-5.21	113.44	119.70
11	AB	3913	DG	P-O3'-C3'	-5.21	113.44	119.70
11	AB	4470	DG	P-O3'-C3'	-5.21	113.44	119.70
11	AB	2072	DG	P-O3'-C3'	-5.21	113.45	119.70
11	AB	992	DG	P-O3'-C3'	-5.21	113.45	119.70
11	AB	8	DG	P-O3'-C3'	-5.21	113.45	119.70
11	AB	2900	DG	P-O3'-C3'	-5.21	113.45	119.70
11	AB	5734	DG	P-O3'-C3'	-5.21	113.45	119.70
200	SA	5	DG	P-O3'-C3'	-5.21	113.45	119.70
11	AB	2544	DG	P-O3'-C3'	-5.21	113.45	119.70
11	AB	5123	DG	P-O3'-C3'	-5.21	113.45	119.70
200	SA	11	DG	P-O3'-C3'	-5.20	113.46	119.70
143	MA	40	DG	P-O3'-C3'	-5.20	113.46	119.70
11	AB	18	DG	P-O3'-C3'	-5.20	113.46	119.70
189	R8	27	DG	P-O3'-C3'	-5.20	113.46	119.70
11	AB	3945	DG	P-O3'-C3'	-5.20	113.46	119.70
11	AB	4399	DG	P-O3'-C3'	-5.20	113.46	119.70
11	AB	4891	DG	P-O3'-C3'	-5.20	113.46	119.70
218	UA	13	DG	P-O3'-C3'	-5.20	113.46	119.70
11	AB	5223	DT	P-O3'-C3'	-5.20	113.46	119.70
11	AB	456	DG	P-O3'-C3'	-5.20	113.47	119.70
11	AB	1788	DG	P-O3'-C3'	-5.20	113.47	119.70
188	R7	2	DG	P-O3'-C3'	-5.20	113.47	119.70
11	AB	3553	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	4335	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	4398	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	909	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	3541	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	3879	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	4523	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	4901	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	5763	DG	P-O3'-C3'	-5.19	113.47	119.70
92	I1	14	DG	P-O3'-C3'	-5.19	113.47	119.70
109	J8	11	DG	P-O3'-C3'	-5.19	113.47	119.70
123	KC	18	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	1472	DT	P-O3'-C3'	-5.19	113.47	119.70
11	AB	1977	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	3154	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	3742	DG	P-O3'-C3'	-5.19	113.47	119.70
82	H2	54	DG	P-O3'-C3'	-5.19	113.47	119.70
218	UA	6	DG	P-O3'-C3'	-5.19	113.47	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
218	UA	7	DG	P-O3'-C3'	-5.19	113.47	119.70
28	C3	13	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	908	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	1113	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	3394	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	4437	DG	P-O3'-C3'	-5.19	113.47	119.70
11	AB	4777	DG	P-O3'-C3'	-5.19	113.48	119.70
178	Q5	38	DG	P-O3'-C3'	-5.19	113.48	119.70
11	AB	1469	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	1519	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	2733	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	3810	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	6447	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	7016	DG	P-O3'-C3'	-5.18	113.48	119.70
14	B1	2	DG	P-O3'-C3'	-5.18	113.48	119.70
32	C8	46	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	113	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	1287	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	1639	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	1975	DT	P-O3'-C3'	-5.18	113.48	119.70
11	AB	6773	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	6936	DG	P-O3'-C3'	-5.18	113.48	119.70
14	B1	20	DG	P-O3'-C3'	-5.18	113.48	119.70
39	D3	2	DG	P-O3'-C3'	-5.18	113.48	119.70
76	G8	19	DG	P-O3'-C3'	-5.18	113.48	119.70
113	JD	3	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	525	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	1905	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	2455	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	4821	DG	P-O3'-C3'	-5.18	113.48	119.70
80	GD	19	DG	P-O3'-C3'	-5.18	113.48	119.70
209	TA	29	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	41	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	540	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	745	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	1125	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	2781	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	2927	DT	P-O3'-C3'	-5.18	113.48	119.70
11	AB	3219	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	4020	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	4571	DG	P-O3'-C3'	-5.18	113.48	119.70
11	AB	5556	DG	P-O3'-C3'	-5.18	113.48	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5954	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	316	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	660	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	750	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	5482	DG	P-O3'-C3'	-5.18	113.49	119.70
18	B5	12	DG	P-O3'-C3'	-5.18	113.49	119.70
98	I8	34	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	327	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	1909	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	4090	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	4845	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	6243	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	7003	DG	P-O3'-C3'	-5.18	113.49	119.70
31	C7	19	DG	P-O3'-C3'	-5.18	113.49	119.70
57	EC	10	DG	P-O3'-C3'	-5.18	113.49	119.70
98	I8	33	DG	P-O3'-C3'	-5.18	113.49	119.70
107	J6	43	DG	P-O3'-C3'	-5.18	113.49	119.70
158	O5	6	DG	P-O3'-C3'	-5.18	113.49	119.70
158	O5	49	DG	P-O3'-C3'	-5.18	113.49	119.70
11	AB	1592	DG	P-O3'-C3'	-5.17	113.49	119.70
11	AB	3479	DT	P-O3'-C3'	-5.17	113.49	119.70
11	AB	4514	DG	P-O3'-C3'	-5.17	113.49	119.70
11	AB	4656	DG	P-O3'-C3'	-5.17	113.49	119.70
11	AB	5658	DG	P-O3'-C3'	-5.17	113.49	119.70
11	AB	6728	DG	P-O3'-C3'	-5.17	113.49	119.70
11	AB	6930	DG	P-O3'-C3'	-5.17	113.49	119.70
95	I5	37	DG	P-O3'-C3'	-5.17	113.49	119.70
102	ID	4	DG	P-O3'-C3'	-5.17	113.49	119.70
174	PC	10	DG	P-O3'-C3'	-5.17	113.49	119.70
194	S2	14	DG	P-O3'-C3'	-5.17	113.49	119.70
238	X9	25	DG	P-O3'-C3'	-5.17	113.49	119.70
11	AB	4649	DG	P-O3'-C3'	-5.17	113.49	119.70
11	AB	4966	DG	P-O3'-C3'	-5.17	113.49	119.70
213	U3	12	DG	P-O3'-C3'	-5.17	113.49	119.70
11	AB	4710	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	5028	DG	P-O3'-C3'	-5.17	113.49	119.70
11	AB	6309	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	7015	DG	P-O3'-C3'	-5.17	113.50	119.70
24	BC	11	DG	P-O3'-C3'	-5.17	113.49	119.70
44	D9	23	DG	P-O3'-C3'	-5.17	113.49	119.70
64	F7	19	DG	P-O3'-C3'	-5.17	113.49	119.70
79	GC	3	DG	P-O3'-C3'	-5.17	113.50	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
98	I8	32	DG	P-O3'-C3'	-5.17	113.49	119.70
148	N5	17	DG	P-O3'-C3'	-5.17	113.49	119.70
173	PA	3	DG	P-O3'-C3'	-5.17	113.50	119.70
206	T7	39	DG	P-O3'-C3'	-5.17	113.49	119.70
11	AB	3212	DG	P-O3'-C3'	-5.17	113.50	119.70
35	CC	30	DG	P-O3'-C3'	-5.17	113.50	119.70
152	N9	23	DG	P-O3'-C3'	-5.17	113.50	119.70
10	AA	20	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	444	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	870	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	2238	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	2917	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	5053	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	5718	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	5923	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	6448	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	6917	DG	P-O3'-C3'	-5.17	113.50	119.70
40	D5	18	DG	P-O3'-C3'	-5.17	113.50	119.70
61	F3	9	DG	P-O3'-C3'	-5.17	113.50	119.70
95	I5	33	DG	P-O3'-C3'	-5.17	113.50	119.70
111	JA	12	DG	P-O3'-C3'	-5.17	113.50	119.70
113	JD	4	DG	P-O3'-C3'	-5.17	113.50	119.70
131	L8	26	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	4550	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	5035	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	5411	DG	P-O3'-C3'	-5.17	113.50	119.70
27	C2	5	DG	P-O3'-C3'	-5.17	113.50	119.70
43	D8	8	DG	P-O3'-C3'	-5.17	113.50	119.70
60	F2	24	DG	P-O3'-C3'	-5.17	113.50	119.70
69	FD	8	DG	P-O3'-C3'	-5.17	113.50	119.70
86	H7	13	DG	P-O3'-C3'	-5.17	113.50	119.70
90	HC	7	DG	P-O3'-C3'	-5.17	113.50	119.70
125	L1	48	DG	P-O3'-C3'	-5.17	113.50	119.70
158	O5	5	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	1480	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	6438	DG	P-O3'-C3'	-5.17	113.50	119.70
11	AB	305	DG	P-O3'-C3'	-5.16	113.50	119.70
11	AB	957	DG	P-O3'-C3'	-5.16	113.50	119.70
11	AB	1104	DG	P-O3'-C3'	-5.16	113.50	119.70
11	AB	1197	DG	P-O3'-C3'	-5.16	113.50	119.70
11	AB	2451	DG	P-O3'-C3'	-5.16	113.50	119.70
11	AB	4073	DG	P-O3'-C3'	-5.16	113.50	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4277	DG	P-O3'-C3'	-5.16	113.50	119.70
11	AB	5248	DG	P-O3'-C3'	-5.16	113.50	119.70
11	AB	7109	DG	P-O3'-C3'	-5.16	113.50	119.70
22	B9	13	DG	P-O3'-C3'	-5.16	113.50	119.70
30	C6	16	DG	P-O3'-C3'	-5.16	113.50	119.70
123	KC	22	DG	P-O3'-C3'	-5.16	113.50	119.70
144	MC	5	DG	P-O3'-C3'	-5.16	113.50	119.70
196	S5	12	DG	P-O3'-C3'	-5.16	113.50	119.70
204	T3	23	DG	P-O3'-C3'	-5.16	113.50	119.70
3	A3	13	DG	P-O3'-C3'	-5.16	113.51	119.70
6	A6	5	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	1137	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	2591	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	4226	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	4471	DG	P-O3'-C3'	-5.16	113.51	119.70
122	KA	11	DG	P-O3'-C3'	-5.16	113.50	119.70
144	MC	8	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	3520	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	3688	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	3916	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	4212	DG	P-O3'-C3'	-5.16	113.51	119.70
18	B5	11	DG	P-O3'-C3'	-5.16	113.51	119.70
21	B8	15	DG	P-O3'-C3'	-5.16	113.51	119.70
23	BA	33	DG	P-O3'-C3'	-5.16	113.51	119.70
50	E3	1	DG	P-O3'-C3'	-5.16	113.51	119.70
104	J2	12	DG	P-O3'-C3'	-5.16	113.51	119.70
125	L1	53	DG	P-O3'-C3'	-5.16	113.51	119.70
188	R7	7	DG	P-O3'-C3'	-5.16	113.51	119.70
188	R7	28	DG	P-O3'-C3'	-5.16	113.51	119.70
209	TA	5	DG	P-O3'-C3'	-5.16	113.51	119.70
231	W5	5	DG	P-O3'-C3'	-5.16	113.51	119.70
9	A9	18	DG	P-O3'-C3'	-5.16	113.51	119.70
10	AA	26	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	480	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	885	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	2013	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	4099	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	5659	DG	P-O3'-C3'	-5.16	113.51	119.70
44	D9	26	DG	P-O3'-C3'	-5.16	113.51	119.70
77	G9	18	DG	P-O3'-C3'	-5.16	113.51	119.70
92	I1	13	DG	P-O3'-C3'	-5.16	113.51	119.70
113	JD	11	DG	P-O3'-C3'	-5.16	113.51	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
120	K8	9	DG	P-O3'-C3'	-5.16	113.51	119.70
122	KA	27	DG	P-O3'-C3'	-5.16	113.51	119.70
147	N3	19	DG	P-O3'-C3'	-5.16	113.51	119.70
201	SC	11	DG	P-O3'-C3'	-5.16	113.51	119.70
229	VD	7	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	374	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	3985	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	4747	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	5575	DG	P-O3'-C3'	-5.16	113.51	119.70
14	B1	1	DG	P-O3'-C3'	-5.16	113.51	119.70
204	T3	38	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	1756	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	1769	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	2044	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	2950	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	4484	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	4508	DG	P-O3'-C3'	-5.16	113.51	119.70
16	B3	16	DG	P-O3'-C3'	-5.16	113.51	119.70
108	J7	11	DG	P-O3'-C3'	-5.16	113.51	119.70
122	KA	12	DG	P-O3'-C3'	-5.16	113.51	119.70
185	R2	4	DG	P-O3'-C3'	-5.16	113.51	119.70
209	TA	30	DG	P-O3'-C3'	-5.16	113.51	119.70
217	U9	20	DG	P-O3'-C3'	-5.16	113.51	119.70
230	W3	37	DG	P-O3'-C3'	-5.16	113.51	119.70
11	AB	452	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	893	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	1164	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	4637	DG	P-O3'-C3'	-5.15	113.52	119.70
13	AD	32	DG	P-O3'-C3'	-5.15	113.52	119.70
16	B3	17	DG	P-O3'-C3'	-5.15	113.52	119.70
94	I3	39	DG	P-O3'-C3'	-5.15	113.52	119.70
135	LD	6	DG	P-O3'-C3'	-5.15	113.52	119.70
150	N7	5	DG	P-O3'-C3'	-5.15	113.52	119.70
174	PC	19	DG	P-O3'-C3'	-5.15	113.52	119.70
231	W5	23	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	137	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	441	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	894	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	1338	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	1882	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	4213	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	4215	DG	P-O3'-C3'	-5.15	113.52	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5047	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	5593	DG	P-O3'-C3'	-5.15	113.52	119.70
94	I3	57	DG	P-O3'-C3'	-5.15	113.52	119.70
166	P2	21	DG	P-O3'-C3'	-5.15	113.52	119.70
226	V9	15	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	873	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	912	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	1906	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	2095	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	2344	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	3193	DT	P-O3'-C3'	-5.15	113.52	119.70
11	AB	3418	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	3837	DG	P-O3'-C3'	-5.15	113.52	119.70
32	C8	36	DG	P-O3'-C3'	-5.15	113.52	119.70
103	J1	8	DG	P-O3'-C3'	-5.15	113.52	119.70
204	T3	4	DG	P-O3'-C3'	-5.15	113.52	119.70
209	TA	15	DG	P-O3'-C3'	-5.15	113.52	119.70
217	U9	23	DG	P-O3'-C3'	-5.15	113.52	119.70
223	V5	9	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	429	DG	P-O3'-C3'	-5.15	113.52	119.70
97	I7	30	DG	P-O3'-C3'	-5.15	113.52	119.70
195	S3	1	DG	P-O3'-C3'	-5.15	113.52	119.70
213	U3	13	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	366	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	414	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	659	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	882	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	3778	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	4701	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	6141	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	6421	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	7018	DG	P-O3'-C3'	-5.15	113.52	119.70
37	D1	11	DG	P-O3'-C3'	-5.15	113.52	119.70
80	GD	20	DG	P-O3'-C3'	-5.15	113.52	119.70
109	J8	33	DG	P-O3'-C3'	-5.15	113.52	119.70
207	T8	22	DG	P-O3'-C3'	-5.15	113.52	119.70
213	U3	11	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	384	DG	P-O3'-C3'	-5.15	113.52	119.70
11	AB	2390	DG	P-O3'-C3'	-5.15	113.53	119.70
11	AB	4890	DG	P-O3'-C3'	-5.15	113.52	119.70
93	I2	24	DG	P-O3'-C3'	-5.15	113.52	119.70
101	IC	18	DG	P-O3'-C3'	-5.15	113.53	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
209	TA	14	DG	P-O3'-C3'	-5.15	113.53	119.70
233	W8	13	DG	P-O3'-C3'	-5.15	113.53	119.70
2	A2	25	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	306	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	915	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	1089	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	3774	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	4170	DT	P-O3'-C3'	-5.14	113.53	119.70
11	AB	4248	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	4357	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	4421	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	4759	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	5191	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	5814	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	5892	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	6099	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	6308	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	6345	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	6520	DG	P-O3'-C3'	-5.14	113.53	119.70
60	F2	19	DG	P-O3'-C3'	-5.14	113.53	119.70
85	H6	16	DG	P-O3'-C3'	-5.14	113.53	119.70
132	L9	11	DG	P-O3'-C3'	-5.14	113.53	119.70
167	P3	3	DG	P-O3'-C3'	-5.14	113.53	119.70
168	P5	9	DG	P-O3'-C3'	-5.14	113.53	119.70
191	RA	6	DG	P-O3'-C3'	-5.14	113.53	119.70
5	A5	8	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	1181	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	1591	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	2062	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	2478	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	3087	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	4214	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	4454	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	5167	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	6837	DG	P-O3'-C3'	-5.14	113.53	119.70
88	H9	21	DG	P-O3'-C3'	-5.14	113.53	119.70
106	J5	33	DG	P-O3'-C3'	-5.14	113.53	119.70
117	K5	43	DG	P-O3'-C3'	-5.14	113.53	119.70
150	N7	14	DG	P-O3'-C3'	-5.14	113.53	119.70
234	W9	7	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	1526	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	5694	DG	P-O3'-C3'	-5.14	113.53	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
149	N6	49	DG	P-O3'-C3'	-5.14	113.53	119.70
1	A1	41	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	408	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	422	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	1281	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	1493	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	3795	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	4820	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	5204	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	5533	DG	P-O3'-C3'	-5.14	113.53	119.70
23	BA	16	DG	P-O3'-C3'	-5.14	113.53	119.70
36	CD	6	DG	P-O3'-C3'	-5.14	113.53	119.70
102	ID	23	DG	P-O3'-C3'	-5.14	113.53	119.70
119	K7	21	DG	P-O3'-C3'	-5.14	113.53	119.70
153	NA	13	DG	P-O3'-C3'	-5.14	113.53	119.70
156	O2	18	DG	P-O3'-C3'	-5.14	113.53	119.70
159	O6	10	DG	P-O3'-C3'	-5.14	113.53	119.70
169	P6	9	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	638	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	3637	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	5112	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	6729	DG	P-O3'-C3'	-5.14	113.53	119.70
22	B9	8	DG	P-O3'-C3'	-5.14	113.53	119.70
32	C8	18	DG	P-O3'-C3'	-5.14	113.53	119.70
126	L2	16	DG	P-O3'-C3'	-5.14	113.53	119.70
153	NA	14	DG	P-O3'-C3'	-5.14	113.53	119.70
223	V5	21	DG	P-O3'-C3'	-5.14	113.53	119.70
11	AB	437	DG	P-O3'-C3'	-5.14	113.54	119.70
11	AB	939	DG	P-O3'-C3'	-5.14	113.54	119.70
11	AB	1008	DG	P-O3'-C3'	-5.14	113.54	119.70
11	AB	1442	DG	P-O3'-C3'	-5.14	113.54	119.70
11	AB	4657	DG	P-O3'-C3'	-5.14	113.54	119.70
11	AB	4813	DG	P-O3'-C3'	-5.14	113.54	119.70
11	AB	4822	DG	P-O3'-C3'	-5.14	113.54	119.70
11	AB	4858	DG	P-O3'-C3'	-5.14	113.54	119.70
11	AB	5252	DG	P-O3'-C3'	-5.14	113.54	119.70
11	AB	5410	DG	P-O3'-C3'	-5.14	113.54	119.70
11	AB	7083	DG	P-O3'-C3'	-5.14	113.54	119.70
80	GD	12	DG	P-O3'-C3'	-5.14	113.53	119.70
136	M2	16	DG	P-O3'-C3'	-5.14	113.53	119.70
136	M2	17	DG	P-O3'-C3'	-5.14	113.54	119.70
202	SD	14	DG	P-O3'-C3'	-5.14	113.54	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	A7	14	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	53	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	497	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	855	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	879	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	897	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	1797	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	4091	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	4276	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	4517	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	4524	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	5955	DG	P-O3'-C3'	-5.13	113.54	119.70
64	F7	14	DG	P-O3'-C3'	-5.13	113.54	119.70
79	GC	17	DG	P-O3'-C3'	-5.13	113.54	119.70
99	I9	24	DG	P-O3'-C3'	-5.13	113.54	119.70
109	J8	27	DG	P-O3'-C3'	-5.13	113.54	119.70
123	KC	21	DG	P-O3'-C3'	-5.13	113.54	119.70
148	N5	29	DG	P-O3'-C3'	-5.13	113.54	119.70
154	NC	34	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	639	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	791	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	927	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	1441	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	3472	DG	P-O3'-C3'	-5.13	113.54	119.70
78	GA	12	DG	P-O3'-C3'	-5.13	113.54	119.70
131	L8	25	DG	P-O3'-C3'	-5.13	113.54	119.70
179	Q7	21	DG	P-O3'-C3'	-5.13	113.54	119.70
4	A4	10	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	438	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	861	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	867	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	923	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	3039	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	3043	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	3460	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	4731	DG	P-O3'-C3'	-5.13	113.54	119.70
33	C9	1	DG	P-O3'-C3'	-5.13	113.54	119.70
57	EC	9	DG	P-O3'-C3'	-5.13	113.54	119.70
57	EC	11	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	3245	DT	P-O3'-C3'	-5.13	113.54	119.70
11	AB	4187	DG	P-O3'-C3'	-5.13	113.54	119.70
88	H9	20	DG	P-O3'-C3'	-5.13	113.54	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
91	HD	25	DG	P-O3'-C3'	-5.13	113.54	119.70
120	K8	8	DG	P-O3'-C3'	-5.13	113.54	119.70
123	KC	11	DG	P-O3'-C3'	-5.13	113.54	119.70
160	O7	42	DG	P-O3'-C3'	-5.13	113.54	119.70
11	AB	265	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	411	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	426	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	816	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	951	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	963	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	1755	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	1803	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	2037	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	2355	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	2696	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	3016	DT	C4-C5-C7	-5.13	115.92	119.00
11	AB	3062	DT	P-O3'-C3'	-5.13	113.55	119.70
11	AB	3151	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	5203	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	6269	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	6306	DG	P-O3'-C3'	-5.13	113.55	119.70
44	D9	17	DG	P-O3'-C3'	-5.13	113.55	119.70
51	E5	7	DG	P-O3'-C3'	-5.13	113.55	119.70
175	PD	20	DG	P-O3'-C3'	-5.13	113.55	119.70
192	RC	10	DG	P-O3'-C3'	-5.13	113.55	119.70
230	W3	38	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	373	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	453	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	784	DT	P-O3'-C3'	-5.13	113.55	119.70
11	AB	3213	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	3636	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	6136	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	6882	DG	P-O3'-C3'	-5.13	113.55	119.70
14	B1	32	DG	P-O3'-C3'	-5.13	113.55	119.70
42	D7	8	DG	P-O3'-C3'	-5.13	113.55	119.70
67	FA	31	DG	P-O3'-C3'	-5.13	113.55	119.70
94	I3	32	DG	P-O3'-C3'	-5.13	113.55	119.70
106	J5	29	DG	P-O3'-C3'	-5.13	113.55	119.70
107	J6	40	DG	P-O3'-C3'	-5.13	113.55	119.70
108	J7	7	DG	P-O3'-C3'	-5.13	113.55	119.70
109	J8	26	DG	P-O3'-C3'	-5.13	113.55	119.70
125	L1	49	DG	P-O3'-C3'	-5.13	113.55	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
144	MC	9	DG	P-O3'-C3'	-5.13	113.55	119.70
153	NA	21	DG	P-O3'-C3'	-5.13	113.55	119.70
157	O3	18	DG	P-O3'-C3'	-5.13	113.55	119.70
206	T7	54	DG	P-O3'-C3'	-5.13	113.55	119.70
233	W8	14	DG	P-O3'-C3'	-5.13	113.55	119.70
11	AB	19	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	1572	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	1824	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	2415	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	3393	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	4314	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	4628	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	5288	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	5389	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	5412	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	6087	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	6963	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	7017	DG	P-O3'-C3'	-5.12	113.55	119.70
30	C6	43	DG	P-O3'-C3'	-5.12	113.55	119.70
108	J7	34	DG	P-O3'-C3'	-5.12	113.55	119.70
109	J8	25	DG	P-O3'-C3'	-5.12	113.55	119.70
112	JC	1	DG	P-O3'-C3'	-5.12	113.55	119.70
156	O2	39	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	498	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	640	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	675	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	1007	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	2856	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	5672	DT	P-O3'-C3'	-5.12	113.55	119.70
28	C3	20	DG	P-O3'-C3'	-5.12	113.55	119.70
30	C6	44	DG	P-O3'-C3'	-5.12	113.55	119.70
33	C9	13	DG	P-O3'-C3'	-5.12	113.56	119.70
45	DA	13	DG	P-O3'-C3'	-5.12	113.55	119.70
49	E2	6	DG	P-O3'-C3'	-5.12	113.55	119.70
92	I1	22	DG	P-O3'-C3'	-5.12	113.55	119.70
133	LA	2	DG	P-O3'-C3'	-5.12	113.55	119.70
11	AB	1191	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	6774	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	6816	DG	P-O3'-C3'	-5.12	113.56	119.70
147	N3	4	DG	P-O3'-C3'	-5.12	113.56	119.70
218	UA	5	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	785	DT	C4-C5-C7	-5.12	115.93	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	930	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	1009	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	2144	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	5083	DG	P-O3'-C3'	-5.12	113.56	119.70
28	C3	19	DG	P-O3'-C3'	-5.12	113.56	119.70
76	G8	6	DG	P-O3'-C3'	-5.12	113.56	119.70
77	G9	17	DG	P-O3'-C3'	-5.12	113.56	119.70
82	H2	50	DT	C4-C5-C7	-5.12	115.93	119.00
187	R5	20	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	123	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	945	DG	P-O3'-C3'	-5.12	113.56	119.70
48	E1	11	DG	P-O3'-C3'	-5.12	113.56	119.70
5	A5	38	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	385	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	423	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	581	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	1640	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	3475	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	4409	DT	C4-C5-C7	-5.12	115.93	119.00
11	AB	4509	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	5390	DG	P-O3'-C3'	-5.12	113.56	119.70
60	F2	8	DT	C4-C5-C7	-5.12	115.93	119.00
79	GC	4	DG	P-O3'-C3'	-5.12	113.56	119.70
89	HA	24	DG	P-O3'-C3'	-5.12	113.56	119.70
108	J7	30	DG	P-O3'-C3'	-5.12	113.56	119.70
11	AB	25	DG	P-O3'-C3'	-5.11	113.56	119.70
11	AB	942	DG	P-O3'-C3'	-5.11	113.56	119.70
11	AB	1983	DG	P-O3'-C3'	-5.11	113.56	119.70
11	AB	2310	DG	P-O3'-C3'	-5.11	113.56	119.70
11	AB	2697	DG	P-O3'-C3'	-5.11	113.56	119.70
11	AB	3652	DG	P-O3'-C3'	-5.11	113.56	119.70
11	AB	6491	DG	P-O3'-C3'	-5.11	113.56	119.70
42	D7	18	DG	P-O3'-C3'	-5.11	113.56	119.70
51	E5	24	DG	P-O3'-C3'	-5.11	113.56	119.70
70	G1	5	DG	P-O3'-C3'	-5.11	113.56	119.70
97	I7	24	DG	P-O3'-C3'	-5.11	113.56	119.70
99	I9	20	DG	P-O3'-C3'	-5.11	113.56	119.70
144	MC	4	DG	P-O3'-C3'	-5.11	113.56	119.70
151	N8	19	DG	P-O3'-C3'	-5.11	113.56	119.70
11	AB	900	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	2594	DG	P-O3'-C3'	-5.11	113.57	119.70
88	H9	30	DG	P-O3'-C3'	-5.11	113.57	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1702	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	4295	DG	P-O3'-C3'	-5.11	113.57	119.70
30	C6	36	DG	P-O3'-C3'	-5.11	113.57	119.70
63	F6	5	DG	P-O3'-C3'	-5.11	113.57	119.70
94	I3	58	DG	P-O3'-C3'	-5.11	113.57	119.70
113	JD	10	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	2531	DT	P-O3'-C3'	-5.11	113.57	119.70
11	AB	3781	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	4950	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	4607	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	5388	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	6244	DG	P-O3'-C3'	-5.11	113.57	119.70
95	I5	32	DG	P-O3'-C3'	-5.11	113.57	119.70
134	LC	18	DG	P-O3'-C3'	-5.11	113.57	119.70
137	M3	16	DT	C4-C5-C7	-5.11	115.94	119.00
152	N9	2	DG	P-O3'-C3'	-5.11	113.57	119.70
213	U3	5	DG	P-O3'-C3'	-5.11	113.57	119.70
215	U7	16	DT	C4-C5-C7	-5.11	115.94	119.00
11	AB	1143	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	1671	DT	C4-C5-C7	-5.11	115.94	119.00
11	AB	1750	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	2687	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	3448	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	6046	DT	C4-C5-C7	-5.11	115.94	119.00
11	AB	6197	DT	C4-C5-C7	-5.11	115.94	119.00
76	G8	3	DG	P-O3'-C3'	-5.11	113.57	119.70
89	HA	12	DG	P-O3'-C3'	-5.11	113.57	119.70
125	L1	6	DG	P-O3'-C3'	-5.11	113.57	119.70
150	N7	13	DG	P-O3'-C3'	-5.11	113.57	119.70
188	R7	13	DG	P-O3'-C3'	-5.11	113.57	119.70
203	T2	13	DG	P-O3'-C3'	-5.11	113.57	119.70
227	VA	19	DG	P-O3'-C3'	-5.11	113.57	119.70
11	AB	5719	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	6188	DG	P-O3'-C3'	-5.10	113.58	119.70
202	SD	15	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	3408	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	4190	DT	C4-C5-C7	-5.10	115.94	119.00
11	AB	4864	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	5009	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	6989	DT	C4-C5-C7	-5.10	115.94	119.00
11	AB	7105	DT	C4-C5-C7	-5.10	115.94	119.00
36	CD	5	DG	P-O3'-C3'	-5.10	113.58	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
60	F2	10	DT	C4-C5-C7	-5.10	115.94	119.00
101	IC	16	DT	C4-C5-C7	-5.10	115.94	119.00
178	Q5	29	DG	P-O3'-C3'	-5.10	113.58	119.70
199	S9	5	DG	P-O3'-C3'	-5.10	113.58	119.70
204	T3	17	DG	P-O3'-C3'	-5.10	113.58	119.70
216	U8	18	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	1520	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	2262	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	4087	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	5805	DT	C4-C5-C7	-5.10	115.94	119.00
66	F9	15	DG	P-O3'-C3'	-5.10	113.58	119.70
222	V3	24	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	1851	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	1978	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	2122	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	7069	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	7196	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	7216	DG	P-O3'-C3'	-5.10	113.58	119.70
160	O7	4	DG	P-O3'-C3'	-5.10	113.58	119.70
186	R3	5	DG	P-O3'-C3'	-5.10	113.58	119.70
204	T3	3	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	938	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	1152	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	1943	DG	P-O3'-C3'	-5.10	113.58	119.70
24	BC	22	DG	P-O3'-C3'	-5.10	113.58	119.70
81	H1	12	DG	P-O3'-C3'	-5.10	113.58	119.70
126	L2	9	DT	C4-C5-C7	-5.10	115.94	119.00
133	LA	12	DG	P-O3'-C3'	-5.10	113.58	119.70
155	ND	13	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	3529	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	5016	DG	P-O3'-C3'	-5.10	113.58	119.70
11	AB	6307	DG	P-O3'-C3'	-5.10	113.58	119.70
99	I9	19	DT	C4-C5-C7	-5.10	115.94	119.00
11	AB	634	DG	P-O3'-C3'	-5.09	113.59	119.70
11	AB	3292	DG	P-O3'-C3'	-5.09	113.59	119.70
11	AB	3676	DG	P-O3'-C3'	-5.09	113.59	119.70
11	AB	6604	DT	C4-C5-C7	-5.09	115.94	119.00
11	AB	7065	DG	P-O3'-C3'	-5.09	113.59	119.70
11	AB	7108	DT	C4-C5-C7	-5.09	115.94	119.00
29	C5	32	DG	P-O3'-C3'	-5.09	113.59	119.70
88	H9	22	DG	P-O3'-C3'	-5.09	113.59	119.70
181	Q9	33	DT	C4-C5-C7	-5.09	115.94	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3123	DG	P-O3'-C3'	-5.09	113.59	119.70
58	ED	15	DT	C4-C5-C7	-5.09	115.94	119.00
89	HA	11	DG	P-O3'-C3'	-5.09	113.59	119.70
11	AB	858	DG	P-O3'-C3'	-5.09	113.59	119.70
11	AB	954	DG	P-O3'-C3'	-5.09	113.59	119.70
11	AB	983	DT	C4-C5-C7	-5.09	115.94	119.00
11	AB	6873	DG	P-O3'-C3'	-5.09	113.59	119.70
11	AB	6942	DG	P-O3'-C3'	-5.09	113.59	119.70
43	D8	1	DT	C4-C5-C7	-5.09	115.95	119.00
116	K3	15	DG	P-O3'-C3'	-5.09	113.59	119.70
160	O7	47	DG	P-O3'-C3'	-5.09	113.59	119.70
165	OD	31	DT	C4-C5-C7	-5.09	115.94	119.00
11	AB	407	DG	P-O3'-C3'	-5.09	113.59	119.70
11	AB	1010	DG	P-O3'-C3'	-5.09	113.59	119.70
21	B8	4	DT	C4-C5-C7	-5.09	115.95	119.00
42	D7	7	DG	P-O3'-C3'	-5.09	113.59	119.70
106	J5	6	DG	P-O3'-C3'	-5.09	113.59	119.70
172	P9	14	DT	C4-C5-C7	-5.09	115.95	119.00
11	AB	1635	DT	C4-C5-C7	-5.09	115.95	119.00
11	AB	3517	DG	P-O3'-C3'	-5.09	113.59	119.70
48	E1	27	DT	C4-C5-C7	-5.09	115.95	119.00
125	L1	54	DG	P-O3'-C3'	-5.09	113.59	119.70
11	AB	1835	DG	P-O3'-C3'	-5.09	113.60	119.70
11	AB	2603	DG	P-O3'-C3'	-5.09	113.60	119.70
11	AB	2736	DT	C4-C5-C7	-5.09	115.95	119.00
11	AB	6830	DT	C4-C5-C7	-5.09	115.95	119.00
76	G8	18	DG	P-O3'-C3'	-5.09	113.60	119.70
97	I7	25	DG	P-O3'-C3'	-5.09	113.60	119.70
172	P9	19	DG	P-O3'-C3'	-5.09	113.60	119.70
191	RA	26	DG	P-O3'-C3'	-5.09	113.60	119.70
213	U3	10	DG	P-O3'-C3'	-5.09	113.60	119.70
1	A1	19	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	3234	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	6290	DT	C4-C5-C7	-5.08	115.95	119.00
231	W5	7	DG	P-O3'-C3'	-5.08	113.60	119.70
11	AB	3628	DG	P-O3'-C3'	-5.08	113.60	119.70
11	AB	4296	DG	P-O3'-C3'	-5.08	113.60	119.70
11	AB	5363	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	7195	DG	P-O3'-C3'	-5.08	113.60	119.70
95	I5	11	DG	P-O3'-C3'	-5.08	113.60	119.70
185	R2	19	DG	P-O3'-C3'	-5.08	113.60	119.70
187	R5	15	DT	C4-C5-C7	-5.08	115.95	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5664	DT	C4-C5-C7	-5.08	115.95	119.00
78	GA	2	DG	P-O3'-C3'	-5.08	113.60	119.70
177	Q3	19	DG	P-O3'-C3'	-5.08	113.60	119.70
220	UD	23	DT	C4-C5-C7	-5.08	115.95	119.00
171	P8	22	DT	C4-C5-C7	-5.08	115.95	119.00
2	A2	15	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	51	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	491	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	969	DG	P-O3'-C3'	-5.08	113.61	119.70
11	AB	1744	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	2126	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	2985	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	3816	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	4420	DG	P-O3'-C3'	-5.08	113.61	119.70
11	AB	5065	DG	P-O3'-C3'	-5.08	113.61	119.70
11	AB	6762	DT	C4-C5-C7	-5.08	115.95	119.00
28	C3	18	DG	P-O3'-C3'	-5.08	113.61	119.70
74	G6	19	DT	C4-C5-C7	-5.08	115.95	119.00
84	H5	6	DG	P-O3'-C3'	-5.08	113.61	119.70
124	KD	21	DT	C4-C5-C7	-5.08	115.95	119.00
144	MC	12	DG	P-O3'-C3'	-5.08	113.61	119.70
212	U2	9	DT	C4-C5-C7	-5.08	115.95	119.00
228	VC	39	DG	P-O3'-C3'	-5.08	113.61	119.70
11	AB	641	DG	P-O3'-C3'	-5.08	113.61	119.70
11	AB	3666	DT	C4-C5-C7	-5.08	115.95	119.00
117	K5	30	DT	C4-C5-C7	-5.08	115.95	119.00
183	QC	10	DG	P-O3'-C3'	-5.08	113.61	119.70
11	AB	1280	DT	C4-C5-C7	-5.08	115.95	119.00
11	AB	5916	DA	OP1-P-O3'	5.08	116.37	105.20
60	F2	9	DT	C4-C5-C7	-5.08	115.95	119.00
90	HC	20	DT	C4-C5-C7	-5.08	115.95	119.00
192	RC	18	DT	C4-C5-C7	-5.08	115.95	119.00
231	W5	6	DG	P-O3'-C3'	-5.08	113.61	119.70
11	AB	1415	DG	P-O3'-C3'	-5.07	113.61	119.70
11	AB	2118	DG	P-O3'-C3'	-5.07	113.61	119.70
11	AB	3825	DT	C4-C5-C7	-5.07	115.96	119.00
141	M8	14	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	1458	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	3891	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	5844	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	6123	DG	P-O3'-C3'	-5.07	113.61	119.70
39	D3	28	DG	P-O3'-C3'	-5.07	113.61	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
108	J7	13	DT	C4-C5-C7	-5.07	115.96	119.00
136	M2	13	DT	C4-C5-C7	-5.07	115.96	119.00
149	N6	38	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	3952	DG	P-O3'-C3'	-5.07	113.62	119.70
11	AB	4227	DG	P-O3'-C3'	-5.07	113.61	119.70
11	AB	5241	DG	P-O3'-C3'	-5.07	113.62	119.70
11	AB	5676	DT	C4-C5-C7	-5.07	115.96	119.00
65	F8	8	DT	C4-C5-C7	-5.07	115.96	119.00
188	R7	32	DT	C4-C5-C7	-5.07	115.96	119.00
227	VA	13	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	2265	DT	C4-C5-C7	-5.07	115.96	119.00
59	F1	12	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	511	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	3432	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	4030	DT	P-O3'-C3'	-5.07	113.62	119.70
37	D1	5	DT	C4-C5-C7	-5.07	115.96	119.00
47	DD	36	DT	C4-C5-C7	-5.07	115.96	119.00
51	E5	23	DG	P-O3'-C3'	-5.07	113.62	119.70
93	I2	44	DT	C4-C5-C7	-5.07	115.96	119.00
159	O6	17	DT	C4-C5-C7	-5.07	115.96	119.00
199	S9	17	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	145	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	2365	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	3248	DT	C4-C5-C7	-5.07	115.96	119.00
11	AB	4413	DT	C4-C5-C7	-5.07	115.96	119.00
43	D8	3	DT	C4-C5-C7	-5.07	115.96	119.00
191	RA	5	DG	P-O3'-C3'	-5.07	113.62	119.70
11	AB	341	DT	C4-C5-C7	-5.06	115.96	119.00
11	AB	918	DT	C4-C5-C7	-5.06	115.96	119.00
11	AB	1654	DT	C4-C5-C7	-5.06	115.96	119.00
11	AB	1720	DT	C4-C5-C7	-5.06	115.96	119.00
11	AB	2445	DT	C4-C5-C7	-5.06	115.96	119.00
173	PA	24	DT	C4-C5-C7	-5.06	115.96	119.00
11	AB	162	DT	C4-C5-C7	-5.06	115.96	119.00
11	AB	1202	DT	C4-C5-C7	-5.06	115.96	119.00
11	AB	5181	DT	C4-C5-C7	-5.06	115.96	119.00
41	D6	18	DG	P-O3'-C3'	-5.06	113.63	119.70
11	AB	1103	DT	C4-C5-C7	-5.06	115.96	119.00
11	AB	2255	DT	C4-C5-C7	-5.06	115.97	119.00
11	AB	3423	DT	C4-C5-C7	-5.06	115.96	119.00
11	AB	4096	DG	P-O3'-C3'	-5.06	113.63	119.70
11	AB	4171	DT	C4-C5-C7	-5.06	115.96	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	4191	DT	C4-C5-C7	-5.06	115.96	119.00
11	AB	6437	DT	C4-C5-C7	-5.06	115.97	119.00
54	E8	30	DT	C4-C5-C7	-5.06	115.96	119.00
108	J7	3	DT	C4-C5-C7	-5.06	115.96	119.00
152	N9	40	DT	C4-C5-C7	-5.06	115.96	119.00
180	Q8	9	DT	C4-C5-C7	-5.06	115.97	119.00
11	AB	1167	DT	C4-C5-C7	-5.06	115.97	119.00
11	AB	5355	DT	C4-C5-C7	-5.06	115.97	119.00
11	AB	6638	DT	C4-C5-C7	-5.06	115.97	119.00
11	AB	2743	DT	C4-C5-C7	-5.06	115.97	119.00
11	AB	2899	DT	C4-C5-C7	-5.06	115.97	119.00
11	AB	6101	DT	C4-C5-C7	-5.06	115.97	119.00
13	AD	5	DT	C4-C5-C7	-5.06	115.97	119.00
130	L7	54	DT	C4-C5-C7	-5.06	115.97	119.00
132	L9	3	DT	C4-C5-C7	-5.06	115.97	119.00
161	O8	25	DT	C4-C5-C7	-5.06	115.97	119.00
7	A7	40	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	2904	DT	C4-C5-C7	-5.05	115.97	119.00
58	ED	31	DG	P-O3'-C3'	-5.05	113.64	119.70
85	H6	20	DT	C4-C5-C7	-5.05	115.97	119.00
146	N2	18	DT	C4-C5-C7	-5.05	115.97	119.00
208	T9	22	DT	C4-C5-C7	-5.05	115.97	119.00
230	W3	41	DG	P-O3'-C3'	-5.05	113.64	119.70
235	WD	19	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	75	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	1079	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	2570	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	3403	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	3410	DT	C4-C5-C7	-5.05	115.97	119.00
80	GD	17	DT	C4-C5-C7	-5.05	115.97	119.00
81	H1	19	DT	C4-C5-C7	-5.05	115.97	119.00
130	L7	55	DG	P-O3'-C3'	-5.05	113.64	119.70
11	AB	744	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	1585	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	3200	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	3598	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	4120	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	5432	DT	C4-C5-C7	-5.05	115.97	119.00
130	L7	11	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	1716	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	2530	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	6233	DA	OP1-P-O3'	5.05	116.31	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	E8	14	DT	C4-C5-C7	-5.05	115.97	119.00
56	EA	17	DT	C4-C5-C7	-5.05	115.97	119.00
145	MD	21	DT	C4-C5-C7	-5.05	115.97	119.00
147	N3	33	DT	C4-C5-C7	-5.05	115.97	119.00
226	V9	33	DT	C4-C5-C7	-5.05	115.97	119.00
9	A9	3	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	2129	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	2368	DA	OP1-P-O3'	5.05	116.31	105.20
11	AB	2847	DT	C4-C5-C7	-5.05	115.97	119.00
84	H5	26	DT	C4-C5-C7	-5.05	115.97	119.00
184	QD	22	DT	C4-C5-C7	-5.05	115.97	119.00
211	TD	1	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	2905	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	3096	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	3668	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	5330	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	5767	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	6210	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	6366	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	6779	DT	C4-C5-C7	-5.05	115.97	119.00
93	I2	37	DT	C4-C5-C7	-5.05	115.97	119.00
158	O5	8	DT	C4-C5-C7	-5.05	115.97	119.00
165	OD	53	DT	C4-C5-C7	-5.05	115.97	119.00
11	AB	461	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	1878	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	2528	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	2573	DT	C4-C5-C7	-5.04	115.97	119.00
16	B3	22	DT	C4-C5-C7	-5.04	115.97	119.00
43	D8	11	DT	C4-C5-C7	-5.04	115.97	119.00
166	P2	17	DT	C4-C5-C7	-5.04	115.97	119.00
3	A3	18	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	178	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	1421	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	1451	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	1464	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	2750	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	5983	DT	C4-C5-C7	-5.04	115.97	119.00
62	F5	13	DT	C4-C5-C7	-5.04	115.97	119.00
137	M3	27	DT	C4-C5-C7	-5.04	115.97	119.00
198	S8	25	DT	C4-C5-C7	-5.04	115.97	119.00
6	A6	20	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	57	DT	C4-C5-C7	-5.04	115.97	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	80	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	142	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	368	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	1672	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	1779	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	2397	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	3099	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	3867	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	4243	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	5364	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	5736	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	6020	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	6144	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	7020	DT	C4-C5-C7	-5.04	115.97	119.00
14	B1	4	DT	C4-C5-C7	-5.04	115.97	119.00
115	K2	33	DT	C4-C5-C7	-5.04	115.97	119.00
144	MC	15	DT	C4-C5-C7	-5.04	115.97	119.00
11	AB	2048	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	4491	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	4957	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	5655	DT	C4-C5-C7	-5.04	115.98	119.00
37	D1	38	DT	C4-C5-C7	-5.04	115.98	119.00
54	E8	12	DT	C4-C5-C7	-5.04	115.98	119.00
89	HA	31	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	1694	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	2547	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	2623	DA	OP1-P-O3'	5.04	116.28	105.20
11	AB	2665	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	3210	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	3397	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	3747	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	5094	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	6301	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	6353	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	6534	DT	C4-C5-C7	-5.04	115.98	119.00
30	C6	4	DT	C4-C5-C7	-5.04	115.98	119.00
160	O7	24	DT	C4-C5-C7	-5.04	115.98	119.00
174	PC	13	DT	C4-C5-C7	-5.04	115.98	119.00
179	Q7	10	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	1107	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	2302	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	3063	DT	C4-C5-C7	-5.04	115.98	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6021	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	6225	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	6993	DT	C4-C5-C7	-5.04	115.98	119.00
59	F1	20	DT	C4-C5-C7	-5.04	115.98	119.00
141	M8	25	DT	C4-C5-C7	-5.04	115.98	119.00
171	P8	23	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	876	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	1258	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	2222	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	2376	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	3363	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	3983	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	4367	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	4699	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	4900	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	4978	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	5698	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	5959	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	6277	DT	C4-C5-C7	-5.04	115.98	119.00
11	AB	6740	DT	C4-C5-C7	-5.04	115.98	119.00
21	B8	6	DT	C4-C5-C7	-5.04	115.98	119.00
85	H6	19	DT	C4-C5-C7	-5.04	115.98	119.00
147	N3	14	DT	C4-C5-C7	-5.04	115.98	119.00
3	A3	1	DT	C4-C5-C7	-5.03	115.98	119.00
5	A5	11	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	300	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1199	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1212	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1642	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1666	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	3383	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	4058	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	4173	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5671	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	6108	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	6853	DA	OP1-P-O3'	5.03	116.27	105.20
12	AC	10	DT	C4-C5-C7	-5.03	115.98	119.00
210	TC	7	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	4762	DT	C4-C5-C7	-5.03	115.98	119.00
118	K6	17	DT	C4-C5-C7	-5.03	115.98	119.00
172	P9	24	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	765	DT	C4-C5-C7	-5.03	115.98	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	1717	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	2469	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	2646	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	2805	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	2836	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	2943	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	4054	DA	OP1-P-O3'	5.03	116.27	105.20
11	AB	5563	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5674	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5679	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5855	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5971	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	6828	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	7171	DT	C4-C5-C7	-5.03	115.98	119.00
19	B6	21	DT	C4-C5-C7	-5.03	115.98	119.00
56	EA	14	DT	C4-C5-C7	-5.03	115.98	119.00
127	L3	7	DT	C4-C5-C7	-5.03	115.98	119.00
169	P6	21	DT	C4-C5-C7	-5.03	115.98	119.00
189	R8	34	DT	C4-C5-C7	-5.03	115.98	119.00
194	S2	9	DT	C4-C5-C7	-5.03	115.98	119.00
195	S3	4	DT	C4-C5-C7	-5.03	115.98	119.00
228	VC	21	DT	C4-C5-C7	-5.03	115.98	119.00
232	W7	16	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1085	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1142	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1444	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	2016	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	2138	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	3505	DT	C4-C5-C7	-5.03	115.98	119.00
88	H9	7	DT	C4-C5-C7	-5.03	115.98	119.00
129	L6	5	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	107	DA	OP1-P-O3'	5.03	116.26	105.20
11	AB	194	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	296	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1216	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1958	DA	OP1-P-O3'	5.03	116.26	105.20
11	AB	2133	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	2250	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	2722	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	3164	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	3401	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	3420	DT	C4-C5-C7	-5.03	115.98	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3908	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	4363	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	4724	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5064	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5339	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5479	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5976	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	6806	DT	C4-C5-C7	-5.03	115.98	119.00
37	D1	27	DT	C4-C5-C7	-5.03	115.98	119.00
41	D6	40	DT	C4-C5-C7	-5.03	115.98	119.00
173	PA	23	DT	C4-C5-C7	-5.03	115.98	119.00
181	Q9	8	DT	C4-C5-C7	-5.03	115.98	119.00
204	T3	27	DT	C4-C5-C7	-5.03	115.98	119.00
223	V5	12	DT	C4-C5-C7	-5.03	115.98	119.00
9	A9	4	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1172	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1276	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	1439	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	2682	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	3036	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	3305	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	3829	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	3881	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	4161	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5271	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5287	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	5967	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	6076	DT	C4-C5-C7	-5.03	115.98	119.00
11	AB	6522	DT	C4-C5-C7	-5.03	115.98	119.00
26	C1	12	DT	C4-C5-C7	-5.03	115.98	119.00
35	CC	19	DT	C4-C5-C7	-5.03	115.98	119.00
40	D5	21	DT	C4-C5-C7	-5.03	115.98	119.00
51	E5	32	DT	C4-C5-C7	-5.03	115.98	119.00
156	O2	10	DG	P-O3'-C3'	-5.03	113.67	119.70
158	O5	23	DT	C4-C5-C7	-5.03	115.98	119.00
189	R8	26	DT	C4-C5-C7	-5.03	115.98	119.00
222	V3	5	DA	OP1-P-O3'	5.03	116.26	105.20
11	AB	1457	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	3242	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	3989	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	6162	DT	C4-C5-C7	-5.02	115.98	119.00
76	G8	2	DT	C4-C5-C7	-5.02	115.98	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
224	V7	18	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	888	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	1004	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	1894	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	2149	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	2291	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	2336	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	2402	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	2470	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	4210	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	6462	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	6745	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	7167	DT	C4-C5-C7	-5.02	115.99	119.00
52	E6	25	DT	C4-C5-C7	-5.02	115.99	119.00
66	F9	21	DT	C4-C5-C7	-5.02	115.99	119.00
67	FA	8	DT	C4-C5-C7	-5.02	115.99	119.00
86	H7	8	DT	C4-C5-C7	-5.02	115.99	119.00
98	I8	20	DT	C4-C5-C7	-5.02	115.99	119.00
104	J2	38	DT	C4-C5-C7	-5.02	115.99	119.00
130	L7	4	DT	C4-C5-C7	-5.02	115.99	119.00
155	ND	4	DT	C4-C5-C7	-5.02	115.99	119.00
187	R5	13	DT	C4-C5-C7	-5.02	115.99	119.00
199	S9	14	DT	C4-C5-C7	-5.02	115.99	119.00
200	SA	10	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	777	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	3535	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	3716	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	6541	DA	OP1-P-O3'	5.02	116.25	105.20
11	AB	7176	DT	C4-C5-C7	-5.02	115.99	119.00
76	G8	17	DT	C4-C5-C7	-5.02	115.99	119.00
130	L7	49	DT	C4-C5-C7	-5.02	115.99	119.00
222	V3	18	DA	OP1-P-O3'	5.02	116.25	105.20
11	AB	195	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	417	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	620	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	1678	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	1775	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	3095	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	5138	DA	OP1-P-O3'	5.02	116.24	105.20
11	AB	6174	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	6293	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	6790	DT	C4-C5-C7	-5.02	115.99	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	C7	29	DT	C4-C5-C7	-5.02	115.99	119.00
32	C8	45	DT	C4-C5-C7	-5.02	115.99	119.00
72	G3	9	DT	C4-C5-C7	-5.02	115.99	119.00
93	I2	11	DT	C4-C5-C7	-5.02	115.99	119.00
98	I8	16	DT	C4-C5-C7	-5.02	115.99	119.00
101	IC	9	DT	C4-C5-C7	-5.02	115.99	119.00
109	J8	21	DT	C4-C5-C7	-5.02	115.99	119.00
120	K8	20	DT	C4-C5-C7	-5.02	115.99	119.00
151	N8	14	DT	C4-C5-C7	-5.02	115.99	119.00
167	P3	11	DA	OP1-P-O3'	5.02	116.24	105.20
170	P7	19	DT	C4-C5-C7	-5.02	115.99	119.00
172	P9	10	DT	C4-C5-C7	-5.02	115.99	119.00
196	S5	31	DT	C4-C5-C7	-5.02	115.99	119.00
221	V2	8	DT	C4-C5-C7	-5.02	115.99	119.00
3	A3	11	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	1374	DA	OP1-P-O3'	5.02	116.24	105.20
11	AB	1412	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	1606	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	2085	DA	OP1-P-O3'	5.02	116.24	105.20
11	AB	3588	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	4165	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	4483	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	5266	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	5467	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	5559	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	5843	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	6121	DT	C4-C5-C7	-5.02	115.99	119.00
27	C2	13	DT	C4-C5-C7	-5.02	115.99	119.00
28	C3	11	DA	OP1-P-O3'	5.02	116.24	105.20
43	D8	28	DT	C4-C5-C7	-5.02	115.99	119.00
93	I2	39	DT	C4-C5-C7	-5.02	115.99	119.00
124	KD	9	DT	C4-C5-C7	-5.02	115.99	119.00
127	L3	6	DT	C4-C5-C7	-5.02	115.99	119.00
145	MD	17	DT	C4-C5-C7	-5.02	115.99	119.00
173	PA	25	DT	C4-C5-C7	-5.02	115.99	119.00
206	T7	11	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	281	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	2480	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	3045	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	3436	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	5404	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	5429	DT	C4-C5-C7	-5.02	115.99	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	5966	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	6176	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	6644	DT	C4-C5-C7	-5.02	115.99	119.00
17	B4	7	DT	C4-C5-C7	-5.02	115.99	119.00
30	C6	15	DT	C4-C5-C7	-5.02	115.99	119.00
108	J7	4	DT	C4-C5-C7	-5.02	115.99	119.00
123	KC	28	DT	C4-C5-C7	-5.02	115.99	119.00
11	AB	1263	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	1392	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	1440	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	2156	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	2532	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	2626	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	3114	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	3253	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	3360	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	4405	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	4994	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	5185	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	5342	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6191	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6325	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6549	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6664	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	7184	DT	C4-C5-C7	-5.01	115.99	119.00
19	B6	7	DT	C4-C5-C7	-5.01	115.99	119.00
26	C1	21	DT	C4-C5-C7	-5.01	115.99	119.00
48	E1	33	DT	C4-C5-C7	-5.01	115.99	119.00
68	FC	4	DT	C4-C5-C7	-5.01	115.99	119.00
93	I2	27	DT	C4-C5-C7	-5.01	115.99	119.00
100	IA	20	DT	C4-C5-C7	-5.01	115.99	119.00
111	JA	2	DT	C4-C5-C7	-5.01	115.99	119.00
127	L3	14	DT	C4-C5-C7	-5.01	115.99	119.00
167	P3	5	DA	OP1-P-O3'	5.01	116.23	105.20
11	AB	238	DA	OP1-P-O3'	5.01	116.23	105.20
11	AB	697	DA	OP1-P-O3'	5.01	116.23	105.20
11	AB	1332	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	1873	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	3300	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	3885	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	4037	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	4543	DT	C4-C5-C7	-5.01	115.99	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6451	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6854	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6990	DT	C4-C5-C7	-5.01	115.99	119.00
16	B3	9	DT	C4-C5-C7	-5.01	115.99	119.00
47	DD	7	DT	C4-C5-C7	-5.01	115.99	119.00
159	O6	14	DT	C4-C5-C7	-5.01	115.99	119.00
235	WD	20	DT	C4-C5-C7	-5.01	115.99	119.00
7	A7	39	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	1543	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	1619	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	2030	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	2350	DA	OP1-P-O3'	5.01	116.22	105.20
11	AB	2549	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	2931	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	2952	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	3303	DA	OP1-P-O3'	5.01	116.23	105.20
11	AB	3745	DA	OP1-P-O3'	5.01	116.22	105.20
11	AB	3948	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	4695	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	5126	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	5139	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	5173	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	5661	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	5873	DA	OP1-P-O3'	5.01	116.23	105.20
11	AB	5882	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6078	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6397	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6440	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	7150	DT	C4-C5-C7	-5.01	115.99	119.00
20	B7	14	DT	C4-C5-C7	-5.01	115.99	119.00
21	B8	13	DT	C4-C5-C7	-5.01	115.99	119.00
31	C7	5	DT	C4-C5-C7	-5.01	115.99	119.00
34	CA	16	DT	C4-C5-C7	-5.01	115.99	119.00
56	EA	6	DT	C4-C5-C7	-5.01	115.99	119.00
114	K1	20	DT	C4-C5-C7	-5.01	115.99	119.00
139	M6	6	DT	C4-C5-C7	-5.01	115.99	119.00
144	MC	18	DT	C4-C5-C7	-5.01	115.99	119.00
167	P3	14	DT	C4-C5-C7	-5.01	115.99	119.00
172	P9	6	DT	C4-C5-C7	-5.01	115.99	119.00
190	R9	38	DT	C4-C5-C7	-5.01	115.99	119.00
207	T8	6	DT	C4-C5-C7	-5.01	115.99	119.00
207	T8	24	DT	C4-C5-C7	-5.01	115.99	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
221	V2	22	DT	C4-C5-C7	-5.01	115.99	119.00
233	W8	6	DT	C4-C5-C7	-5.01	115.99	119.00
1	A1	1	DT	C4-C5-C7	-5.01	115.99	119.00
3	A3	4	DT	C4-C5-C7	-5.01	116.00	119.00
7	A7	36	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	1486	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	2225	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	2396	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	2945	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	3278	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	4254	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	5182	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	5650	DA	OP1-P-O3'	5.01	116.22	105.20
11	AB	6110	DA	OP1-P-O3'	5.01	116.22	105.20
11	AB	6133	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	6292	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6372	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6716	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	6794	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	6902	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	7097	DT	C4-C5-C7	-5.01	115.99	119.00
11	AB	7192	DT	C4-C5-C7	-5.01	116.00	119.00
31	C7	26	DT	C4-C5-C7	-5.01	116.00	119.00
37	D1	4	DT	C4-C5-C7	-5.01	115.99	119.00
51	E5	21	DT	C4-C5-C7	-5.01	116.00	119.00
73	G5	9	DA	OP1-P-O3'	5.01	116.22	105.20
148	N5	9	DT	C4-C5-C7	-5.01	115.99	119.00
149	N6	16	DT	C4-C5-C7	-5.01	115.99	119.00
160	O7	23	DT	C4-C5-C7	-5.01	115.99	119.00
164	OC	19	DT	C4-C5-C7	-5.01	115.99	119.00
171	P8	13	DT	C4-C5-C7	-5.01	116.00	119.00
214	U5	31	DT	C4-C5-C7	-5.01	116.00	119.00
228	VC	26	DA	OP1-P-O3'	5.01	116.22	105.20
231	W5	27	DT	C4-C5-C7	-5.01	116.00	119.00
6	A6	19	DT	C4-C5-C7	-5.01	116.00	119.00
8	A8	8	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	56	DA	OP1-P-O3'	5.01	116.22	105.20
11	AB	302	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	730	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	806	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	1201	DA	OP1-P-O3'	5.01	116.22	105.20
11	AB	2377	DA	OP1-P-O3'	5.01	116.22	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3353	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	5788	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	5797	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	6766	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	6851	DT	C4-C5-C7	-5.01	116.00	119.00
12	AC	15	DT	C4-C5-C7	-5.01	116.00	119.00
31	C7	10	DA	OP1-P-O3'	5.01	116.22	105.20
36	CD	21	DA	OP1-P-O3'	5.01	116.22	105.20
58	ED	10	DT	C4-C5-C7	-5.01	116.00	119.00
62	F5	30	DT	C4-C5-C7	-5.01	116.00	119.00
102	ID	6	DA	OP1-P-O3'	5.01	116.22	105.20
124	KD	22	DT	C4-C5-C7	-5.01	116.00	119.00
145	MD	26	DT	C4-C5-C7	-5.01	116.00	119.00
181	Q9	13	DA	OP1-P-O3'	5.01	116.22	105.20
4	A4	15	DA	OP1-P-O3'	5.01	116.22	105.20
4	A4	30	DT	C4-C5-C7	-5.01	116.00	119.00
7	A7	9	DA	OP1-P-O3'	5.01	116.21	105.20
11	AB	632	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	869	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	872	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	1151	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	1154	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	1278	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	1488	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	1615	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	1877	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	1963	DA	OP1-P-O3'	5.01	116.21	105.20
11	AB	2043	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	2236	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	2648	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	3951	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	4318	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	4319	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	4427	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	5752	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	6282	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	6327	DT	C4-C5-C7	-5.01	116.00	119.00
11	AB	6384	DT	C4-C5-C7	-5.01	116.00	119.00
12	AC	12	DT	C4-C5-C7	-5.01	116.00	119.00
29	C5	8	DT	C4-C5-C7	-5.01	116.00	119.00
33	C9	26	DT	C4-C5-C7	-5.01	116.00	119.00
41	D6	41	DT	C4-C5-C7	-5.01	116.00	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	E9	15	DA	OP1-P-O3'	5.01	116.22	105.20
91	HD	13	DT	C4-C5-C7	-5.01	116.00	119.00
96	I6	13	DT	C4-C5-C7	-5.01	116.00	119.00
102	ID	7	DT	C4-C5-C7	-5.01	116.00	119.00
141	M8	20	DT	C4-C5-C7	-5.01	116.00	119.00
152	N9	9	DT	C4-C5-C7	-5.01	116.00	119.00
156	O2	34	DT	C4-C5-C7	-5.01	116.00	119.00
159	O6	15	DT	C4-C5-C7	-5.01	116.00	119.00
160	O7	50	DT	C4-C5-C7	-5.01	116.00	119.00
161	O8	5	DT	C4-C5-C7	-5.01	116.00	119.00
161	O8	49	DT	C4-C5-C7	-5.01	116.00	119.00
181	Q9	11	DT	C4-C5-C7	-5.01	116.00	119.00
195	S3	19	DT	C4-C5-C7	-5.01	116.00	119.00
197	S7	14	DT	C4-C5-C7	-5.01	116.00	119.00
211	TD	26	DT	C4-C5-C7	-5.01	116.00	119.00
237	X7	9	DA	OP1-P-O3'	5.01	116.21	105.20
5	A5	5	DA	OP1-P-O3'	5.00	116.21	105.20
11	AB	129	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	291	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	485	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1136	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1163	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1596	DA	OP1-P-O3'	5.00	116.21	105.20
11	AB	1650	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	2459	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	2649	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	4080	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	4402	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	6512	DT	C4-C5-C7	-5.00	116.00	119.00
18	B5	27	DT	C4-C5-C7	-5.00	116.00	119.00
72	G3	16	DT	C4-C5-C7	-5.00	116.00	119.00
158	O5	44	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	28	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1130	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1159	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1354	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1590	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1868	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	2226	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	2378	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	2706	DA	OP1-P-O3'	5.00	116.21	105.20
11	AB	2894	DT	C4-C5-C7	-5.00	116.00	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	3640	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	3681	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	3751	DA	OP1-P-O3'	5.00	116.21	105.20
11	AB	3845	DA	OP1-P-O3'	5.00	116.21	105.20
11	AB	3907	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	4166	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	5349	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	5477	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	6038	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	6281	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	6411	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	6704	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	6811	DA	OP1-P-O3'	5.00	116.21	105.20
22	B9	48	DT	C4-C5-C7	-5.00	116.00	119.00
86	H7	18	DT	C4-C5-C7	-5.00	116.00	119.00
100	IA	14	DT	C4-C5-C7	-5.00	116.00	119.00
187	R5	29	DA	OP1-P-O3'	5.00	116.21	105.20
206	T7	45	DT	C4-C5-C7	-5.00	116.00	119.00
211	TD	15	DA	OP1-P-O3'	5.00	116.21	105.20
228	VC	7	DT	C4-C5-C7	-5.00	116.00	119.00
4	A4	19	DA	OP1-P-O3'	5.00	116.20	105.20
7	A7	19	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	577	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	881	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	905	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1357	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1539	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	1631	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	2307	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	2815	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	2914	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	3386	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	3389	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	3659	DA	OP1-P-O3'	5.00	116.20	105.20
11	AB	3768	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	5418	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	5723	DA	OP1-P-O3'	5.00	116.20	105.20
11	AB	6215	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	6334	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	6369	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	6635	DT	C4-C5-C7	-5.00	116.00	119.00
11	AB	6841	DT	C4-C5-C7	-5.00	116.00	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AB	6986	DT	C4-C5-C7	-5.00	116.00	119.00
15	B2	18	DT	C4-C5-C7	-5.00	116.00	119.00
39	D3	16	DA	OP1-P-O3'	5.00	116.20	105.20
40	D5	11	DA	OP1-P-O3'	5.00	116.20	105.20
48	E1	22	DT	C4-C5-C7	-5.00	116.00	119.00
57	EC	19	DA	OP1-P-O3'	5.00	116.20	105.20
95	I5	6	DT	C4-C5-C7	-5.00	116.00	119.00
107	J6	10	DA	OP1-P-O3'	5.00	116.20	105.20
113	JD	16	DT	C4-C5-C7	-5.00	116.00	119.00
119	K7	26	DT	C4-C5-C7	-5.00	116.00	119.00
126	L2	11	DT	C4-C5-C7	-5.00	116.00	119.00
130	L7	23	DA	OP1-P-O3'	5.00	116.20	105.20
143	MA	7	DA	OP1-P-O3'	5.00	116.20	105.20
149	N6	25	DT	C4-C5-C7	-5.00	116.00	119.00
159	O6	1	DT	C4-C5-C7	-5.00	116.00	119.00
166	P2	35	DT	C4-C5-C7	-5.00	116.00	119.00
200	SA	22	DA	OP1-P-O3'	5.00	116.20	105.20
221	V2	11	DT	C4-C5-C7	-5.00	116.00	119.00
230	W3	10	DA	OP1-P-O3'	5.00	116.20	105.20

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	1166	637	637	38	0
2	A2	636	350	350	38	0
3	A3	473	259	259	21	0
4	A4	574	317	318	30	0
5	A5	861	478	478	46	0
6	A6	535	291	291	22	0
7	A7	756	421	421	45	0
8	A8	496	273	274	27	0
9	A9	395	218	219	28	0
10	AA	476	255	255	20	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	AB	148265	82147	82243	8165	0
12	AC	370	204	204	28	0
13	AD	826	452	452	48	0
14	B1	873	469	469	36	0
15	B2	370	200	201	13	0
16	B3	376	205	206	20	0
17	B4	372	203	204	18	0
18	B5	779	427	427	45	0
19	B6	494	272	272	22	0
20	B7	363	204	205	20	0
21	B8	551	309	309	39	0
22	B9	1116	606	607	51	0
23	BA	658	362	363	33	0
24	BC	768	411	411	31	0
25	BD	395	212	212	10	0
26	C1	546	306	307	30	0
27	C2	369	201	202	19	0
28	C3	442	233	234	15	0
29	C5	874	470	470	26	0
30	C6	930	503	503	43	0
31	C7	678	377	377	48	0
32	C8	1114	605	606	55	0
33	C9	559	304	304	24	0
34	CA	392	215	216	17	0
35	CC	634	348	349	26	0
36	CD	533	293	294	26	0
37	D1	845	469	469	42	0
38	D2	369	198	198	12	0
39	D3	701	383	384	37	0
40	D5	435	237	238	22	0
41	D6	944	517	517	51	0
42	D7	437	235	235	15	0
43	D8	939	517	517	50	0
44	D9	620	334	335	18	0
45	DA	474	256	256	15	0
46	DC	369	202	203	20	0
47	DD	861	467	468	27	0
48	E1	673	368	369	21	0
49	E2	881	486	486	52	0
50	E3	392	213	213	20	0
51	E5	618	340	341	31	0
52	E6	747	411	412	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
53	E7	496	273	273	29	0
54	E8	666	378	378	57	0
55	E9	844	463	463	49	0
56	EA	390	216	216	21	0
57	EC	475	260	261	23	0
58	ED	779	427	428	31	0
59	F1	404	223	223	17	0
60	F2	715	393	393	40	0
61	F3	535	288	289	18	0
62	F5	972	547	547	59	0
63	F6	374	199	200	13	0
64	F7	597	328	328	26	0
65	F8	366	201	201	19	0
66	F9	374	201	202	12	0
67	FA	686	373	374	41	0
68	FC	395	214	215	19	0
69	FD	972	523	524	32	0
70	G1	389	213	213	18	0
71	G2	368	200	201	9	0
72	G3	571	317	317	29	0
73	G5	492	268	268	19	0
74	G6	678	375	375	45	0
75	G7	591	323	323	16	0
76	G8	487	256	257	16	0
77	G9	389	216	216	26	0
78	GA	395	213	214	13	0
79	GC	535	291	292	19	0
80	GD	375	201	202	13	0
81	H1	374	204	205	15	0
82	H2	1039	573	573	57	0
83	H3	864	472	472	45	0
84	H5	813	451	451	42	0
85	H6	721	389	389	27	0
86	H7	414	226	226	25	0
87	H8	433	234	235	13	0
88	H9	643	346	346	30	0
89	HA	623	338	338	29	0
90	HC	488	266	267	20	0
91	HD	494	270	271	26	0
92	I1	437	235	236	17	0
93	I2	1004	549	549	43	0
94	I3	1221	658	658	50	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
95	I5	880	471	471	40	0
96	I6	385	218	218	27	0
97	I7	618	335	335	28	0
98	I8	824	450	450	37	0
99	I9	620	335	335	25	0
100	IA	388	214	214	15	0
101	IC	470	259	259	25	0
102	ID	689	372	372	40	0
103	J1	574	314	314	29	0
104	J2	853	468	468	35	0
105	J3	608	344	344	46	0
106	J5	768	411	412	26	0
107	J6	908	492	493	29	0
108	J7	1154	631	631	56	0
109	J8	1118	605	606	59	0
110	J9	367	201	202	15	0
111	JA	392	213	214	17	0
112	JC	532	294	295	27	0
113	JD	792	424	424	27	0
114	K1	926	507	507	50	0
115	K2	675	374	374	42	0
116	K3	370	200	201	11	0
117	K5	995	553	553	59	0
118	K6	366	205	206	26	0
119	K7	884	487	487	55	0
120	K8	471	258	259	22	0
121	K9	534	294	294	26	0
122	KA	1044	575	575	63	0
123	KC	502	270	271	24	0
124	KD	473	259	259	29	0
125	L1	1159	628	628	46	0
126	L2	1145	627	628	42	0
127	L3	382	216	216	29	0
128	L5	468	259	259	26	0
129	L6	491	274	275	26	0
130	L7	1238	677	677	64	0
131	L8	497	268	269	15	0
132	L9	393	214	214	20	0
133	LA	449	251	251	36	0
134	LC	369	200	201	9	0
135	LD	367	205	206	18	0
136	M2	432	239	239	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
137	M3	723	390	390	20	0
138	M5	859	476	476	53	0
139	M6	506	278	278	21	0
140	M7	531	290	291	20	0
141	M8	529	295	295	31	0
142	M9	474	261	261	26	0
143	MA	894	488	488	33	0
144	MC	476	263	264	34	0
145	MD	1184	652	652	58	0
146	N2	495	268	268	21	0
147	N3	712	392	392	39	0
148	N5	642	348	349	25	0
149	N6	1038	577	577	51	0
150	N7	474	256	257	15	0
151	N8	428	235	235	22	0
152	N9	1083	588	588	61	0
153	NA	399	210	210	10	0
154	NC	781	429	429	51	0
155	ND	419	225	225	19	0
156	O2	1226	669	669	48	0
157	O3	500	269	269	17	0
158	O5	1007	549	550	34	0
159	O6	471	260	261	27	0
160	O7	1073	582	583	41	0
161	O8	1188	653	654	52	0
162	O9	366	201	202	15	0
163	OA	389	212	213	12	0
164	OC	481	268	269	19	0
165	OD	1197	649	650	51	0
166	P2	628	353	354	42	0
167	P3	770	427	427	36	0
168	P5	369	202	202	14	0
169	P6	373	200	201	17	0
170	P7	371	203	204	16	0
171	P8	479	277	278	36	0
172	P9	486	276	277	38	0
173	PA	782	426	426	33	0
174	PC	476	258	258	29	0
175	PD	473	256	256	19	0
176	Q2	391	214	214	13	0
177	Q3	470	262	262	26	0
178	Q5	859	476	476	50	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
179	Q7	472	259	259	19	0
180	Q8	488	270	271	21	0
181	Q9	792	443	443	58	0
182	QA	582	313	313	23	0
183	QC	472	260	260	29	0
184	QD	626	351	351	36	0
185	R2	501	268	268	25	0
186	R3	369	202	203	24	0
187	R5	856	468	468	49	0
188	R7	664	359	359	29	0
189	R8	815	451	452	39	0
190	R9	946	521	521	52	0
191	RA	556	303	303	27	0
192	RC	648	361	362	36	0
193	RD	367	203	204	13	0
194	S2	621	337	338	31	0
195	S3	579	314	314	32	0
196	S5	658	356	356	21	0
197	S7	481	268	268	24	0
198	S8	817	452	452	47	0
199	S9	478	255	255	15	0
200	SA	493	269	270	22	0
201	SC	393	211	212	9	0
202	SD	537	290	290	19	0
203	T2	492	271	272	22	0
204	T3	919	506	506	55	0
205	T5	484	266	266	17	0
206	T7	1170	623	623	49	0
207	T8	497	270	271	18	0
208	T9	362	206	207	25	0
209	TA	868	468	468	42	0
210	TC	532	290	290	15	0
211	TD	861	478	478	53	0
212	U2	489	271	272	24	0
213	U3	543	291	292	21	0
214	U5	856	477	477	57	0
215	U7	470	262	263	25	0
216	U8	496	270	270	24	0
217	U9	493	270	271	23	0
218	UA	397	216	216	23	0
219	UC	656	363	364	31	0
220	UD	465	260	260	29	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
221	V2	551	306	307	27	0
222	V3	519	283	283	31	0
223	V5	845	459	459	42	0
224	V7	368	202	202	18	0
225	V8	460	245	245	18	0
226	V9	704	380	381	25	0
227	VA	595	325	325	34	0
228	VC	824	448	449	32	0
229	VD	437	232	232	8	0
230	W3	1007	554	554	56	0
231	W5	640	353	353	45	0
232	W7	467	263	263	34	0
233	W8	437	236	237	16	0
234	W9	396	212	212	13	0
235	WD	370	202	203	16	0
236	X5	429	238	239	24	0
237	X7	465	259	260	18	0
238	X9	1210	661	661	48	0
All	All	296225	163115	163308	14633	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 32.

All (14633) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2263:DG:H1'	11:AB:2264:DC:H5'	1.92	0.52
11:AB:5866:DG:H1'	11:AB:5867:DC:H5'	1.92	0.52
43:D8:35:DG:H1'	117:K5:47:DC:H5'	1.92	0.52
11:AB:2668:DG:H1'	11:AB:2669:DC:H5'	1.92	0.52
11:AB:2674:DG:H1'	11:AB:2675:DC:H5'	1.92	0.52
11:AB:4947:DG:H1'	11:AB:4948:DC:H5'	1.92	0.52
11:AB:4996:DG:H1'	11:AB:4997:DC:H5'	1.92	0.52
11:AB:5017:DG:H1'	11:AB:5018:DC:H5'	1.92	0.52
32:C8:25:DG:H1'	32:C8:26:DC:H5'	1.92	0.52
126:L2:28:DC:H5'	224:V7:16:DG:H1'	1.92	0.52
188:R7:8:DG:H1'	188:R7:9:DC:H5'	1.92	0.52
228:VC:29:DG:H1'	228:VC:30:DC:H5'	1.92	0.52
2:A2:3:DG:H1'	2:A2:4:DC:H5'	1.92	0.52
11:AB:558:DG:H1'	11:AB:559:DC:H5'	1.92	0.52
11:AB:642:DG:H1'	11:AB:643:DC:H5'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:766:DG:H1'	11:AB:767:DC:H5'	1.92	0.52
11:AB:1092:DG:H1'	11:AB:1093:DC:H5'	1.92	0.52
11:AB:3316:DG:H1'	11:AB:3317:DC:H5'	1.92	0.52
11:AB:3775:DG:H1'	11:AB:3776:DC:H5'	1.92	0.52
11:AB:4480:DG:H1'	11:AB:4481:DC:H5'	1.92	0.52
11:AB:4757:DG:H1'	11:AB:4758:DC:H5'	1.92	0.52
11:AB:6042:DG:H1'	11:AB:6043:DC:H5'	1.92	0.52
39:D3:32:DG:H1'	39:D3:33:DC:H5'	1.92	0.52
49:E2:24:DC:H5'	222:V3:25:DG:H1'	1.92	0.52
88:H9:10:DG:H1'	133:LA:18:DC:H5'	1.92	0.52
103:J1:24:DG:H1'	103:J1:25:DC:H5'	1.92	0.52
149:N6:2:DG:H1'	149:N6:3:DC:H5'	1.92	0.52
175:PD:5:DG:H1'	175:PD:6:DC:H5'	1.92	0.52
192:RC:33:DG:H1'	192:RC:34:DC:H5'	1.92	0.52
204:T3:1:DG:H1'	204:T3:2:DC:H5'	1.92	0.52
206:T7:9:DG:H1'	206:T7:10:DC:H5'	1.92	0.52
206:T7:23:DG:H1'	206:T7:24:DC:H5'	1.92	0.52
231:W5:13:DG:H1'	231:W5:14:DC:H5'	1.92	0.52
11:AB:886:DG:H1'	11:AB:887:DC:H5'	1.92	0.52
11:AB:1282:DG:H1'	11:AB:1283:DC:H5'	1.92	0.52
11:AB:2326:DG:H1'	11:AB:2327:DC:H5'	1.92	0.52
11:AB:2524:DG:H1'	11:AB:2525:DC:H5'	1.92	0.52
11:AB:2851:DG:H1'	11:AB:2852:DC:H5'	1.92	0.52
11:AB:2885:DG:H1'	11:AB:2886:DC:H5'	1.92	0.52
11:AB:3449:DG:H1'	11:AB:3450:DC:H5'	1.92	0.52
11:AB:3606:DG:H1'	11:AB:3607:DC:H5'	1.92	0.52
11:AB:3697:DG:H1'	11:AB:3698:DC:H5'	1.92	0.52
11:AB:3986:DG:H1'	11:AB:3987:DC:H5'	1.92	0.52
11:AB:4145:DG:H1'	11:AB:4146:DC:H5'	1.92	0.52
11:AB:4466:DG:H1'	11:AB:4467:DC:H5'	1.92	0.52
11:AB:4850:DG:H1'	11:AB:4851:DC:H5'	1.92	0.52
11:AB:4971:DG:H1'	11:AB:4972:DC:H5'	1.92	0.52
11:AB:5391:DG:H1'	11:AB:5392:DC:H5'	1.92	0.52
11:AB:6646:DG:H1'	11:AB:6647:DC:H5'	1.92	0.52
11:AB:6821:DG:H1'	11:AB:6822:DC:H5'	1.92	0.52
20:B7:9:DG:H1'	20:B7:10:DC:H5'	1.92	0.52
44:D9:27:DG:H1'	44:D9:28:DC:H5'	1.92	0.52
45:DA:14:DG:H1'	45:DA:15:DC:H5'	1.92	0.52
76:G8:4:DG:H1'	109:J8:15:DC:H5'	1.92	0.52
82:H2:47:DG:H1'	82:H2:48:DC:H5'	1.92	0.52
99:I9:10:DG:H1'	99:I9:11:DC:H5'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
109:J8:34:DG:H1'	109:J8:35:DC:H5'	1.92	0.52
119:K7:39:DG:H1'	119:K7:40:DC:H5'	1.92	0.52
165:OD:55:DG:H1'	165:OD:56:DC:H5'	1.92	0.52
166:P2:9:DG:H1'	166:P2:10:DC:H5'	1.92	0.52
167:P3:9:DG:H1'	167:P3:10:DC:H5'	1.92	0.52
180:Q8:5:DG:H1'	180:Q8:6:DC:H5'	1.92	0.52
232:W7:19:DG:H1'	232:W7:20:DC:H5'	1.92	0.52
1:A1:15:DG:H1'	1:A1:16:DC:H5'	1.92	0.52
11:AB:635:DG:H1'	11:AB:636:DC:H5'	1.92	0.52
11:AB:833:DG:H1'	11:AB:834:DC:H5'	1.92	0.52
11:AB:1395:DG:H1'	11:AB:1396:DC:H5'	1.92	0.52
11:AB:1494:DG:H1'	11:AB:1495:DC:H5'	1.92	0.52
11:AB:1521:DG:H1'	11:AB:1522:DC:H5'	1.92	0.52
11:AB:1979:DG:H1'	11:AB:1980:DC:H5'	1.92	0.52
11:AB:3293:DG:H1'	11:AB:3294:DC:H5'	1.92	0.52
11:AB:3456:DG:H1'	11:AB:3457:DC:H5'	1.92	0.52
11:AB:3491:DG:H1'	11:AB:3492:DC:H5'	1.92	0.52
11:AB:3566:DG:H1'	11:AB:3567:DC:H5'	1.93	0.52
11:AB:3621:DG:H1'	11:AB:3622:DC:H5'	1.92	0.52
11:AB:4105:DG:H1'	11:AB:4106:DC:H5'	1.92	0.52
11:AB:4133:DG:H1'	11:AB:4134:DC:H5'	1.92	0.52
11:AB:4608:DG:H1'	11:AB:4609:DC:H5'	1.92	0.52
11:AB:4622:DG:H1'	11:AB:4623:DC:H5'	1.92	0.52
11:AB:5253:DG:H1'	11:AB:5254:DC:H5'	1.92	0.52
11:AB:5301:DG:H1'	11:AB:5302:DC:H5'	1.92	0.52
11:AB:5430:DG:H1'	11:AB:5431:DC:H5'	1.92	0.52
11:AB:5764:DG:H1'	11:AB:5765:DC:H5'	1.92	0.52
11:AB:6492:DG:H1'	11:AB:6493:DC:H5'	1.92	0.52
11:AB:7231:DG:H1'	11:AB:7232:DC:H5'	1.92	0.52
14:B1:8:DC:H5'	117:K5:25:DG:H1'	1.92	0.52
22:B9:41:DG:H1'	22:B9:42:DC:H5'	1.92	0.52
31:C7:6:DC:H5'	49:E2:30:DG:H1'	1.92	0.52
32:C8:39:DG:H1'	32:C8:40:DC:H5'	1.92	0.52
37:D1:8:DC:H5'	138:M5:28:DG:H1'	1.92	0.52
61:F3:6:DG:H1'	61:F3:7:DC:H5'	1.92	0.52
74:G6:29:DG:H1'	74:G6:30:DC:H5'	1.92	0.52
88:H9:16:DG:H1'	88:H9:17:DC:H5'	1.92	0.52
91:HD:17:DG:H1'	91:HD:18:DC:H5'	1.92	0.52
94:I3:37:DG:H1'	94:I3:38:DC:H5'	1.92	0.52
94:I3:46:DC:H5'	117:K5:39:DG:H1'	1.92	0.52
95:I5:14:DG:H1'	138:M5:36:DC:H5'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
108:J7:55:DG:H1'	108:J7:56:DC:H5'	1.92	0.52
119:K7:3:DG:H1'	119:K7:4:DC:H5'	1.92	0.52
123:KC:19:DG:H1'	123:KC:20:DC:H5'	1.92	0.52
143:MA:14:DG:H1'	143:MA:15:DC:H5'	1.92	0.52
146:N2:22:DG:H1'	146:N2:23:DC:H5'	1.92	0.52
154:NC:24:DG:H1'	192:RC:21:DC:H5'	1.92	0.52
154:NC:30:DG:H1'	154:NC:31:DC:H5'	1.92	0.52
160:O7:13:DG:H1'	160:O7:14:DC:H5'	1.92	0.52
188:R7:29:DG:H1'	188:R7:30:DC:H5'	1.92	0.52
199:S9:10:DG:H1'	199:S9:11:DC:H5'	1.92	0.52
200:SA:12:DG:H1'	200:SA:13:DC:H5'	1.92	0.52
220:UD:9:DG:H1'	220:UD:10:DC:H5'	1.92	0.52
220:UD:19:DG:H1'	220:UD:20:DC:H5'	1.92	0.52
225:V8:20:DG:H1'	225:V8:21:DC:H5'	1.92	0.52
11:AB:228:DG:H1'	11:AB:229:DC:H5'	1.92	0.51
11:AB:1811:DG:H1'	11:AB:1812:DC:H5'	1.92	0.51
11:AB:1922:DG:H1'	11:AB:1923:DC:H5'	1.92	0.51
11:AB:4139:DG:H1'	11:AB:4140:DC:H5'	1.92	0.51
11:AB:4322:DG:H1'	11:AB:4323:DC:H5'	1.92	0.51
11:AB:4489:DG:H1'	11:AB:4490:DC:H5'	1.92	0.51
11:AB:4538:DG:H1'	11:AB:4539:DC:H5'	1.92	0.51
11:AB:4809:DG:H1'	11:AB:4810:DC:H5'	1.92	0.51
11:AB:5024:DG:H1'	11:AB:5025:DC:H5'	1.92	0.51
11:AB:5323:DG:H1'	11:AB:5324:DC:H5'	1.92	0.51
11:AB:5681:DG:H1'	11:AB:5682:DC:H5'	1.92	0.51
11:AB:5782:DG:H1'	11:AB:5783:DC:H5'	1.92	0.51
11:AB:5860:DG:H1'	11:AB:5861:DC:H5'	1.93	0.51
11:AB:6730:DG:H1'	11:AB:6731:DC:H5'	1.92	0.51
57:EC:14:DG:H1'	57:EC:15:DC:H5'	1.92	0.51
60:F2:12:DG:H1'	60:F2:13:DC:H5'	1.92	0.51
62:F5:18:DG:H1'	62:F5:19:DC:H5'	1.92	0.51
92:I1:23:DG:H1'	92:I1:24:DC:H5'	1.92	0.51
101:IC:5:DG:H1'	101:IC:6:DC:H5'	1.92	0.51
104:J2:21:DG:H1'	230:W3:36:DC:H5'	1.92	0.51
125:L1:55:DG:H1'	125:L1:56:DC:H5'	1.92	0.51
131:L8:17:DG:H1'	146:N2:15:DC:H5'	1.92	0.51
139:M6:4:DG:H1'	139:M6:5:DC:H5'	1.92	0.51
147:N3:20:DG:H1'	147:N3:21:DC:H5'	1.92	0.51
170:P7:12:DG:H1'	170:P7:13:DC:H5'	1.92	0.51
182:QA:20:DG:H1'	182:QA:21:DC:H5'	1.92	0.51
186:R3:19:DG:H1'	186:R3:20:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
196:S5:13:DG:H1'	196:S5:14:DC:H5'	1.92	0.51
203:T2:10:DG:H1'	203:T2:11:DC:H5'	1.92	0.51
205:T5:2:DG:H1'	205:T5:3:DC:H5'	1.92	0.51
211:TD:41:DG:H1'	211:TD:42:DC:H5'	1.92	0.51
238:X9:53:DG:H1'	238:X9:54:DC:H5'	1.92	0.51
4:A4:11:DG:H1'	4:A4:12:DC:H5'	1.92	0.51
11:AB:999:DG:H1'	11:AB:1000:DC:H5'	1.92	0.51
11:AB:1038:DG:H1'	11:AB:1039:DC:H5'	1.92	0.51
11:AB:1053:DG:H1'	11:AB:1054:DC:H5'	1.92	0.51
11:AB:1703:DG:H1'	11:AB:1704:DC:H5'	1.92	0.51
11:AB:2035:DG:H1'	11:AB:2036:DC:H5'	1.92	0.51
11:AB:2273:DG:H1'	11:AB:2274:DC:H5'	1.92	0.51
11:AB:2556:DG:H1'	11:AB:2557:DC:H5'	1.92	0.51
11:AB:2588:DG:H1'	11:AB:2589:DC:H5'	1.92	0.51
11:AB:3461:DG:H1'	11:AB:3462:DC:H5'	1.92	0.51
11:AB:4071:DG:H1'	11:AB:4072:DC:H5'	1.92	0.51
11:AB:4118:DG:H1'	11:AB:4119:DC:H5'	1.92	0.51
11:AB:4202:DG:H1'	11:AB:4203:DC:H5'	1.92	0.51
11:AB:4583:DG:H1'	11:AB:4584:DC:H5'	1.92	0.51
11:AB:4629:DG:H1'	11:AB:4630:DC:H5'	1.92	0.51
11:AB:5365:DG:H1'	11:AB:5366:DC:H5'	1.92	0.51
11:AB:5594:DG:H1'	11:AB:5595:DC:H5'	1.92	0.51
11:AB:5772:DG:H1'	11:AB:5773:DC:H5'	1.92	0.51
11:AB:6146:DG:H1'	11:AB:6147:DC:H5'	1.92	0.51
11:AB:6831:DG:H1'	11:AB:6832:DC:H5'	1.92	0.51
11:AB:7050:DG:H1'	11:AB:7051:DC:H5'	1.92	0.51
12:AC:22:DG:H1'	65:F8:1:DC:H5'	1.92	0.51
27:C2:20:DG:H1'	27:C2:21:DC:H5'	1.92	0.51
32:C8:47:DG:H1'	32:C8:48:DC:H5'	1.92	0.51
38:D2:17:DG:H1'	38:D2:18:DC:H5'	1.92	0.51
74:G6:35:DG:H1'	74:G6:36:DC:H5'	1.92	0.51
92:I1:17:DG:H1'	92:I1:18:DC:H5'	1.92	0.51
109:J8:40:DG:H1'	109:J8:41:DC:H5'	1.92	0.51
120:K8:6:DG:H1'	120:K8:7:DC:H5'	1.92	0.51
131:L8:18:DC:H5'	146:N2:14:DG:H1'	1.92	0.51
158:O5:50:DG:H1'	158:O5:51:DC:H5'	1.92	0.51
169:P6:18:DG:H1'	169:P6:19:DC:H5'	1.92	0.51
185:R2:11:DG:H1'	185:R2:12:DC:H5'	1.92	0.51
200:SA:6:DG:H1'	200:SA:7:DC:H5'	1.92	0.51
214:U5:21:DG:H1'	214:U5:22:DC:H5'	1.92	0.51
236:X5:5:DG:H1'	236:X5:6:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:321:DG:H1'	11:AB:322:DC:H5'	1.92	0.51
11:AB:390:DG:H1'	11:AB:391:DC:H5'	1.92	0.51
11:AB:457:DG:H1'	11:AB:458:DC:H5'	1.92	0.51
11:AB:499:DG:H1'	11:AB:500:DC:H5'	1.92	0.51
11:AB:1459:DG:H1'	11:AB:1460:DC:H5'	1.92	0.51
11:AB:1501:DG:H1'	11:AB:1502:DC:H5'	1.92	0.51
11:AB:2729:DG:H1'	11:AB:2730:DC:H5'	1.92	0.51
11:AB:3917:DG:H1'	11:AB:3918:DC:H5'	1.92	0.51
11:AB:3998:DG:H1'	11:AB:3999:DC:H5'	1.92	0.51
11:AB:4711:DG:H1'	11:AB:4712:DC:H5'	1.92	0.51
11:AB:4967:DG:H1'	11:AB:4968:DC:H5'	1.92	0.51
11:AB:6004:DG:H1'	11:AB:6005:DC:H5'	1.92	0.51
11:AB:6755:DG:H1'	11:AB:6756:DC:H5'	1.92	0.51
11:AB:6918:DG:H1'	11:AB:6919:DC:H5'	1.92	0.51
11:AB:6940:DG:H1'	11:AB:6941:DC:H5'	1.92	0.51
27:C2:6:DG:H1'	27:C2:7:DC:H5'	1.92	0.51
29:C5:42:DG:H1'	223:V5:1:DC:H5'	1.93	0.51
51:E5:11:DG:H1'	51:E5:12:DC:H5'	1.92	0.51
61:F3:15:DG:H1'	61:F3:16:DC:H5'	1.92	0.51
82:H2:5:DG:H1'	82:H2:6:DC:H5'	1.92	0.51
85:H6:17:DG:H1'	85:H6:18:DC:H5'	1.92	0.51
90:HC:15:DG:H1'	90:HC:16:DC:H5'	1.92	0.51
98:I8:38:DC:H5'	123:KC:16:DG:H1'	1.92	0.51
109:J8:53:DG:H1'	109:J8:54:DC:H5'	1.92	0.51
122:KA:13:DG:H1'	122:KA:14:DC:H5'	1.92	0.51
132:L9:12:DG:H1'	132:L9:13:DC:H5'	1.92	0.51
136:M2:18:DG:H1'	136:M2:19:DC:H5'	1.92	0.51
139:M6:21:DG:H1'	139:M6:22:DC:H5'	1.92	0.51
140:M7:16:DG:H1'	140:M7:17:DC:H5'	1.92	0.51
147:N3:29:DC:H5'	204:T3:14:DG:H1'	1.92	0.51
158:O5:27:DG:H1'	198:S8:18:DC:H5'	1.92	0.51
174:PC:26:DG:H1'	174:PC:27:DC:H5'	1.92	0.51
178:Q5:5:DG:H1'	178:Q5:6:DC:H5'	1.92	0.51
194:S2:15:DG:H1'	194:S2:16:DC:H5'	1.92	0.51
195:S3:5:DG:H1'	195:S3:6:DC:H5'	1.92	0.51
206:T7:2:DG:H1'	206:T7:3:DC:H5'	1.92	0.51
222:V3:10:DG:H1'	222:V3:11:DC:H5'	1.92	0.51
238:X9:4:DG:H1'	238:X9:5:DC:H5'	1.92	0.51
6:A6:9:DG:H1'	6:A6:10:DC:H5'	1.92	0.51
11:AB:20:DG:H1'	11:AB:21:DC:H5'	1.92	0.51
11:AB:61:DG:H1'	11:AB:62:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1284:DG:H1'	11:AB:1285:DC:H5'	1.92	0.51
11:AB:1429:DG:H1'	11:AB:1430:DC:H5'	1.92	0.51
11:AB:1883:DG:H1'	11:AB:1884:DC:H5'	1.92	0.51
11:AB:1898:DG:H1'	11:AB:1899:DC:H5'	1.92	0.51
11:AB:2654:DG:H1'	11:AB:2655:DC:H5'	1.92	0.51
11:AB:3168:DG:H1'	11:AB:3169:DC:H5'	1.92	0.51
11:AB:3679:DC:H5'	11:AB:4518:DG:H1'	1.92	0.51
11:AB:3838:DG:H1'	11:AB:3839:DC:H5'	1.92	0.51
11:AB:3888:DG:H1'	11:AB:3889:DC:H5'	1.92	0.51
11:AB:4400:DG:H1'	11:AB:4401:DC:H5'	1.92	0.51
11:AB:4510:DG:H1'	11:AB:4511:DC:H5'	1.92	0.51
11:AB:4702:DG:H1'	11:AB:4703:DC:H5'	1.92	0.51
11:AB:4902:DG:H1'	11:AB:4903:DC:H5'	1.92	0.51
11:AB:5045:DG:H1'	11:AB:5046:DC:H5'	1.92	0.51
11:AB:5483:DG:H1'	11:AB:5484:DC:H5'	1.92	0.51
11:AB:6050:DG:H1'	11:AB:6051:DC:H5'	1.92	0.51
11:AB:6752:DG:H1'	11:AB:6753:DC:H5'	1.92	0.51
11:AB:6825:DG:H1'	11:AB:6826:DC:H5'	1.92	0.51
11:AB:7072:DG:H1'	11:AB:7073:DC:H5'	1.92	0.51
11:AB:7145:DG:H1'	11:AB:7146:DC:H5'	1.92	0.51
12:AC:18:DG:H1'	12:AC:19:DC:H5'	1.92	0.51
14:B1:21:DG:H1'	14:B1:22:DC:H5'	1.92	0.51
30:C6:17:DG:H1'	30:C6:18:DC:H5'	1.92	0.51
37:D1:17:DG:H1'	37:D1:18:DC:H5'	1.92	0.51
38:D2:11:DG:H1'	38:D2:12:DC:H5'	1.92	0.51
43:D8:9:DG:H1'	43:D8:10:DC:H5'	1.92	0.51
50:E3:2:DG:H1'	50:E3:3:DC:H5'	1.92	0.51
52:E6:33:DG:H1'	52:E6:34:DC:H5'	1.92	0.51
54:E8:26:DG:H1'	54:E8:27:DC:H5'	1.92	0.51
69:FD:44:DG:H1'	69:FD:45:DC:H5'	1.92	0.51
79:GC:14:DG:H1'	98:I8:31:DC:H5'	1.92	0.51
101:IC:19:DG:H1'	101:IC:20:DC:H5'	1.92	0.51
102:ID:30:DG:H1'	102:ID:31:DC:H5'	1.92	0.51
104:J2:3:DG:H1'	104:J2:4:DC:H5'	1.92	0.51
104:J2:26:DG:H1'	104:J2:27:DC:H5'	1.92	0.51
106:J5:30:DG:H1'	106:J5:31:DC:H5'	1.92	0.51
109:J8:12:DG:H1'	109:J8:13:DC:H5'	1.92	0.51
110:J9:20:DG:H1'	110:J9:21:DC:H5'	1.92	0.51
113:JD:30:DG:H1'	113:JD:31:DC:H5'	1.92	0.51
122:KA:8:DC:H5'	209:TA:18:DG:H1'	1.92	0.51
153:NA:15:DG:H1'	153:NA:16:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
154:NC:26:DG:H1'	154:NC:27:DC:H5'	1.92	0.51
189:R8:28:DG:H1'	189:R8:29:DC:H5'	1.92	0.51
190:R9:28:DG:H1'	190:R9:29:DC:H5'	1.92	0.51
211:TD:10:DG:H1'	211:TD:11:DC:H5'	1.92	0.51
11:AB:44:DG:H1'	11:AB:45:DC:H5'	1.92	0.51
11:AB:526:DG:H1'	11:AB:527:DC:H5'	1.92	0.51
11:AB:856:DG:H1'	11:AB:857:DC:H5'	1.92	0.51
11:AB:865:DC:H5'	11:AB:6788:DG:H1'	1.92	0.51
11:AB:1770:DG:H1'	11:AB:1771:DC:H5'	1.92	0.51
11:AB:3105:DG:H1'	11:AB:3106:DC:H5'	1.92	0.51
11:AB:3369:DG:H1'	11:AB:3370:DC:H5'	1.92	0.51
11:AB:3442:DG:H1'	11:AB:3443:DC:H5'	1.92	0.51
11:AB:3811:DG:H1'	11:AB:3812:DC:H5'	1.92	0.51
11:AB:3871:DG:H1'	11:AB:3872:DC:H5'	1.92	0.51
11:AB:4061:DG:H1'	11:AB:4062:DC:H5'	1.92	0.51
11:AB:5058:DG:H1'	11:AB:5059:DC:H5'	1.92	0.51
11:AB:5176:DG:H1'	11:AB:5177:DC:H5'	1.92	0.51
11:AB:5277:DG:H1'	11:AB:5278:DC:H5'	1.92	0.51
11:AB:5756:DG:H1'	11:AB:5757:DC:H5'	1.92	0.51
11:AB:6223:DG:H1'	11:AB:6224:DC:H5'	1.93	0.51
11:AB:6463:DG:H1'	11:AB:6464:DC:H5'	1.92	0.51
11:AB:6907:DG:H1'	11:AB:6908:DC:H5'	1.92	0.51
11:AB:6997:DG:H1'	11:AB:6998:DC:H5'	1.92	0.51
11:AB:7012:DG:H1'	11:AB:7013:DC:H5'	1.92	0.51
15:B2:14:DC:H5'	30:C6:7:DG:H1'	1.92	0.51
24:BC:15:DG:H1'	24:BC:16:DC:H5'	1.92	0.51
24:BC:27:DG:H1'	35:CC:17:DC:H5'	1.92	0.51
30:C6:29:DC:H5'	73:G5:7:DG:H1'	1.92	0.51
30:C6:31:DG:H1'	30:C6:32:DC:H5'	1.92	0.51
38:D2:14:DG:H1'	38:D2:15:DC:H5'	1.92	0.51
69:FD:31:DG:H1'	69:FD:32:DC:H5'	1.92	0.51
74:G6:21:DG:H1'	74:G6:22:DC:H5'	1.92	0.51
75:G7:19:DC:H5'	197:S7:10:DG:H1'	1.92	0.51
79:GC:12:DG:H1'	79:GC:13:DC:H5'	1.92	0.51
82:H2:43:DG:H1'	82:H2:44:DC:H5'	1.92	0.51
85:H6:21:DG:H1'	85:H6:22:DC:H5'	1.92	0.51
94:I3:55:DG:H1'	94:I3:56:DC:H5'	1.92	0.51
99:I9:21:DG:H1'	99:I9:22:DC:H5'	1.92	0.51
110:J9:18:DG:H1'	110:J9:19:DC:H5'	1.92	0.51
113:JD:38:DG:H1'	227:VA:1:DC:H5'	1.92	0.51
125:L1:12:DG:H1'	125:L1:13:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
133:LA:11:DC:H5'	182:QA:14:DG:H1'	1.92	0.51
140:M7:13:DG:H1'	140:M7:14:DC:H5'	1.92	0.51
150:N7:22:DG:H1'	150:N7:23:DC:H5'	1.92	0.51
183:QC:21:DG:H1'	183:QC:22:DC:H5'	1.92	0.51
185:R2:15:DG:H1'	185:R2:16:DC:H5'	1.92	0.51
186:R3:11:DG:H1'	186:R3:12:DC:H5'	1.92	0.51
195:S3:2:DG:H1'	195:S3:3:DC:H5'	1.92	0.51
11:AB:14:DG:H1'	11:AB:15:DC:H5'	1.92	0.51
11:AB:548:DG:H1'	11:AB:549:DC:H5'	1.92	0.51
11:AB:913:DG:H1'	11:AB:914:DC:H5'	1.92	0.51
11:AB:1267:DG:H1'	11:AB:1268:DC:H5'	1.92	0.51
11:AB:1667:DG:H1'	11:AB:1668:DC:H5'	1.92	0.51
11:AB:1971:DG:H1'	11:AB:1972:DC:H5'	1.92	0.51
11:AB:2171:DG:H1'	11:AB:2172:DC:H5'	1.92	0.51
11:AB:3806:DG:H1'	11:AB:3807:DC:H5'	1.92	0.51
11:AB:4025:DG:H1'	11:AB:4026:DC:H5'	1.92	0.51
11:AB:4063:DG:H1'	11:AB:4064:DC:H5'	1.92	0.51
11:AB:4074:DG:H1'	11:AB:4075:DC:H5'	1.92	0.51
11:AB:4515:DG:H1'	11:AB:4516:DC:H5'	1.92	0.51
11:AB:4574:DG:H1'	11:AB:4575:DC:H5'	1.92	0.51
11:AB:4625:DG:H1'	11:AB:4626:DC:H5'	1.92	0.51
11:AB:5548:DG:H1'	11:AB:5549:DC:H5'	1.92	0.51
11:AB:5749:DG:H1'	11:AB:5750:DC:H5'	1.92	0.51
11:AB:5946:DG:H1'	11:AB:5947:DC:H5'	1.92	0.51
11:AB:6298:DG:H1'	11:AB:6299:DC:H5'	1.92	0.51
13:AD:43:DG:H1'	13:AD:44:DC:H5'	1.92	0.51
24:BC:8:DG:H1'	24:BC:9:DC:H5'	1.92	0.51
32:C8:8:DG:H1'	32:C8:9:DC:H5'	1.92	0.51
42:D7:19:DG:H1'	42:D7:20:DC:H5'	1.92	0.51
54:E8:28:DG:H1'	54:E8:29:DC:H5'	1.92	0.51
58:ED:21:DG:H1'	58:ED:22:DC:H5'	1.92	0.51
68:FC:5:DG:H1'	68:FC:6:DC:H5'	1.92	0.51
69:FD:37:DG:H1'	69:FD:38:DC:H5'	1.92	0.51
83:H3:5:DG:H1'	83:H3:6:DC:H5'	1.92	0.51
88:H9:31:DG:H1'	182:QA:1:DC:H5'	1.93	0.51
95:I5:42:DG:H1'	187:R5:1:DC:H5'	1.92	0.51
110:J9:15:DG:H1'	110:J9:16:DC:H5'	1.92	0.51
119:K7:27:DG:H1'	119:K7:28:DC:H5'	1.92	0.51
136:M2:6:DG:H1'	136:M2:7:DC:H5'	1.92	0.51
151:N8:15:DG:H1'	151:N8:16:DC:H5'	1.92	0.51
167:P3:29:DG:H1'	167:P3:30:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
186:R3:6:DG:H1'	186:R3:7:DC:H5'	1.92	0.51
201:SC:5:DG:H1'	201:SC:6:DC:H5'	1.92	0.51
209:TA:16:DG:H1'	209:TA:17:DC:H5'	1.92	0.51
11:AB:42:DG:H1'	11:AB:43:DC:H5'	1.92	0.51
11:AB:114:DG:H1'	11:AB:115:DC:H5'	1.92	0.51
11:AB:1040:DG:H1'	11:AB:1041:DC:H5'	1.92	0.51
11:AB:1077:DG:H1'	11:AB:1078:DC:H5'	1.92	0.51
11:AB:1182:DG:H1'	11:AB:1183:DC:H5'	1.92	0.51
11:AB:1347:DG:H1'	11:AB:1348:DC:H5'	1.92	0.51
11:AB:1611:DG:H1'	11:AB:1612:DC:H5'	1.92	0.51
11:AB:1863:DG:H1'	11:AB:1864:DC:H5'	1.92	0.51
11:AB:2373:DG:H1'	11:AB:2374:DC:H5'	1.92	0.51
11:AB:2713:DG:H1'	11:AB:2714:DC:H5'	1.92	0.51
11:AB:2910:DG:H1'	11:AB:2911:DC:H5'	1.92	0.51
11:AB:4088:DG:H1'	11:AB:4089:DC:H5'	1.92	0.51
11:AB:4154:DG:H1'	11:AB:4155:DC:H5'	1.92	0.51
11:AB:4496:DG:H1'	11:AB:4497:DC:H5'	1.92	0.51
11:AB:4854:DG:H1'	11:AB:4855:DC:H5'	1.92	0.51
11:AB:5468:DG:H1'	11:AB:5469:DC:H5'	1.92	0.51
11:AB:5824:DG:H1'	11:AB:5825:DC:H5'	1.92	0.51
11:AB:5864:DG:H1'	11:AB:5865:DC:H5'	1.92	0.51
11:AB:7084:DG:H1'	11:AB:7085:DC:H5'	1.92	0.51
11:AB:7154:DG:H1'	11:AB:7155:DC:H5'	1.92	0.51
11:AB:7182:DC:C2'	11:AB:7183:DT:H72	2.41	0.51
17:B4:11:DG:H1'	17:B4:12:DC:H5'	1.92	0.51
24:BC:39:DG:H1'	24:BC:40:DC:H5'	1.92	0.51
37:D1:34:DC:C2'	37:D1:35:DT:H72	2.41	0.51
41:D6:22:DC:H5'	211:TD:21:DG:H1'	1.92	0.51
47:DD:41:DG:H1'	47:DD:42:DC:H5'	1.92	0.51
48:E1:1:DT:H72	187:R5:42:DC:C2'	2.41	0.51
58:ED:7:DG:H1'	58:ED:8:DC:H5'	1.92	0.51
90:HC:8:DG:H1'	90:HC:9:DC:H5'	1.92	0.51
108:J7:20:DG:H1'	108:J7:21:DC:H5'	1.92	0.51
112:JC:12:DG:H1'	112:JC:13:DC:H5'	1.92	0.51
113:JD:12:DG:H1'	113:JD:13:DC:H5'	1.92	0.51
114:K1:16:DG:H1'	114:K1:17:DC:H5'	1.92	0.51
144:MC:6:DG:H1'	144:MC:7:DC:H5'	1.92	0.51
147:N3:12:DG:H1'	147:N3:13:DC:H5'	1.92	0.51
149:N6:50:DG:H1'	149:N6:51:DC:H5'	1.92	0.51
152:N9:38:DG:H1'	165:OD:50:DC:H5'	1.92	0.51
155:ND:20:DG:H1'	175:PD:1:DC:H5'	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
160:O7:14:DC:C2'	160:O7:15:DT:H72	2.41	0.51
166:P2:28:DG:H1'	166:P2:29:DC:H5'	1.92	0.51
169:P6:5:DG:H1'	169:P6:6:DC:H5'	1.92	0.51
187:R5:4:DG:H1'	187:R5:5:DC:H5'	1.92	0.51
199:S9:20:DG:H1'	199:S9:21:DC:H5'	1.92	0.51
217:U9:7:DG:H1'	217:U9:8:DC:H5'	1.92	0.51
217:U9:11:DG:H1'	217:U9:12:DC:H5'	1.92	0.51
223:V5:10:DG:H1'	223:V5:11:DC:H5'	1.92	0.51
6:A6:28:DG:H1'	6:A6:29:DC:H5'	1.92	0.51
11:AB:86:DG:H1'	11:AB:87:DC:H5'	1.92	0.51
11:AB:126:DG:H1'	11:AB:127:DC:H5'	1.92	0.51
11:AB:294:DG:H1'	11:AB:295:DC:H5'	1.92	0.51
11:AB:726:DG:H1'	11:AB:727:DC:H5'	1.92	0.51
11:AB:901:DG:H1'	11:AB:902:DC:H5'	1.92	0.51
11:AB:1126:DG:H1'	11:AB:1127:DC:H5'	1.92	0.51
11:AB:1535:DG:H1'	11:AB:1536:DC:H5'	1.92	0.51
11:AB:1542:DC:C2'	11:AB:1543:DT:H72	2.41	0.51
11:AB:1669:DG:H1'	11:AB:1670:DC:H5'	1.92	0.51
11:AB:1789:DG:H1'	11:AB:1790:DC:H5'	1.92	0.51
11:AB:1949:DG:H1'	11:AB:1950:DC:H5'	1.92	0.51
11:AB:2081:DG:H1'	11:AB:2082:DC:H5'	1.92	0.51
11:AB:2311:DG:H1'	11:AB:2312:DC:H5'	1.92	0.51
11:AB:2391:DG:H1'	11:AB:2392:DC:H5'	1.92	0.51
11:AB:2538:DG:H1'	11:AB:2539:DC:H5'	1.92	0.51
11:AB:2550:DG:H1'	11:AB:2551:DC:H5'	1.92	0.51
11:AB:2584:DC:C2'	11:AB:2585:DT:H72	2.41	0.51
11:AB:2669:DC:C2'	11:AB:2670:DT:H72	2.41	0.51
11:AB:2996:DG:H1'	11:AB:2997:DC:H5'	1.92	0.51
11:AB:3779:DG:H1'	11:AB:3780:DC:H5'	1.92	0.51
11:AB:4110:DG:H1'	11:AB:4111:DC:H5'	1.92	0.51
11:AB:4175:DG:H1'	11:AB:4176:DC:H5'	1.92	0.51
11:AB:4188:DG:H1'	11:AB:4189:DC:H5'	1.92	0.51
11:AB:4249:DG:H1'	11:AB:4250:DC:H5'	1.92	0.51
11:AB:4725:DG:H1'	11:AB:4726:DC:H5'	1.92	0.51
11:AB:4862:DC:C2'	11:AB:4863:DT:H72	2.41	0.51
11:AB:4922:DC:C2'	11:AB:4923:DT:H72	2.41	0.51
11:AB:4938:DC:C2'	11:AB:4939:DT:H72	2.41	0.51
11:AB:5134:DG:H1'	11:AB:5135:DC:H5'	1.92	0.51
11:AB:5509:DC:C2'	11:AB:5510:DT:H72	2.41	0.51
11:AB:5600:DC:C2'	11:AB:5601:DT:H72	2.41	0.51
11:AB:5704:DG:H1'	11:AB:5705:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5907:DG:H1'	11:AB:5908:DC:H5'	1.92	0.51
11:AB:6189:DG:H1'	11:AB:6190:DC:H5'	1.92	0.51
11:AB:7217:DG:H1'	11:AB:7218:DC:H5'	1.92	0.51
12:AC:17:DC:H5'	109:J8:28:DG:H1'	1.92	0.51
13:AD:28:DG:H1'	13:AD:29:DC:H5'	1.92	0.51
13:AD:33:DG:H1'	13:AD:34:DC:H5'	1.92	0.51
14:B1:34:DC:C2'	14:B1:35:DT:H72	2.41	0.51
15:B2:20:DG:H1'	15:B2:21:DC:H5'	1.92	0.51
26:C1:1:DC:H5'	73:G5:24:DG:H1'	1.92	0.51
30:C6:12:DC:C2'	30:C6:13:DT:H72	2.41	0.51
30:C6:26:DC:C2'	30:C6:27:DT:H72	2.41	0.51
35:CC:15:DC:C2'	35:CC:16:DT:H72	2.41	0.51
41:D6:5:DG:H1'	41:D6:6:DC:H5'	1.92	0.51
41:D6:16:DC:C2'	41:D6:17:DT:H72	2.41	0.51
41:D6:19:DG:H1'	41:D6:20:DC:H5'	1.92	0.51
52:E6:30:DG:H1'	52:E6:31:DC:H5'	1.92	0.51
55:E9:22:DG:H1'	55:E9:23:DC:H5'	1.92	0.51
58:ED:29:DG:H1'	58:ED:30:DC:H5'	1.92	0.51
67:FA:18:DG:H1'	67:FA:19:DC:H5'	1.92	0.51
72:G3:2:DC:C2'	72:G3:3:DT:H72	2.41	0.51
103:J1:13:DG:H1'	103:J1:14:DC:H5'	1.92	0.51
106:J5:27:DG:H1'	106:J5:28:DC:H5'	1.92	0.51
108:J7:16:DC:C2'	108:J7:17:DT:H72	2.41	0.51
109:J8:42:DG:H1'	109:J8:43:DC:H5'	1.92	0.51
115:K2:15:DG:H1'	115:K2:16:DC:H5'	1.92	0.51
124:KD:7:DC:C2'	124:KD:8:DT:H72	2.41	0.51
125:L1:25:DG:H1'	125:L1:26:DC:H5'	1.92	0.51
138:M5:37:DC:C2'	138:M5:38:DT:H72	2.41	0.51
139:M6:19:DG:H1'	139:M6:20:DC:H5'	1.92	0.51
143:MA:11:DG:H1'	143:MA:12:DC:H5'	1.92	0.51
174:PC:11:DG:H1'	174:PC:12:DC:H5'	1.92	0.51
188:R7:14:DG:H1'	188:R7:15:DC:H5'	1.92	0.51
192:RC:11:DG:H1'	192:RC:12:DC:H5'	1.92	0.51
197:S7:6:DG:H1'	197:S7:7:DC:H5'	1.92	0.51
233:W8:19:DC:C2'	233:W8:20:DT:H72	2.41	0.51
11:AB:90:DG:H1'	11:AB:91:DC:H5'	1.92	0.51
11:AB:196:DC:C2'	11:AB:197:DT:H72	2.41	0.51
11:AB:328:DG:H1'	11:AB:329:DC:H5'	1.92	0.51
11:AB:781:DG:H1'	11:AB:782:DC:H5'	1.92	0.51
11:AB:883:DG:H1'	11:AB:884:DC:H5'	1.92	0.51
11:AB:932:DC:C2'	11:AB:933:DT:H72	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:959:DC:C2'	11:AB:960:DT:H72	2.41	0.51
11:AB:1249:DC:C2'	11:AB:1250:DT:H72	2.41	0.51
11:AB:1328:DC:C2'	11:AB:1329:DT:H72	2.41	0.51
11:AB:1506:DC:C2'	11:AB:1507:DT:H72	2.41	0.51
11:AB:2211:DC:C2'	11:AB:2212:DT:H72	2.41	0.51
11:AB:2329:DC:C2'	11:AB:2330:DT:H72	2.41	0.51
11:AB:2346:DC:C2'	11:AB:2347:DT:H72	2.41	0.51
11:AB:2609:DC:C2'	11:AB:2610:DT:H72	2.41	0.51
11:AB:2852:DC:C2'	11:AB:2853:DT:H72	2.41	0.51
11:AB:2972:DC:C2'	11:AB:2973:DT:H72	2.41	0.51
11:AB:3296:DC:C2'	11:AB:3297:DT:H72	2.41	0.51
11:AB:3317:DC:C2'	11:AB:3318:DT:H72	2.41	0.51
11:AB:3414:DG:H1'	11:AB:3415:DC:H5'	1.92	0.51
11:AB:3450:DC:C2'	11:AB:3451:DT:H72	2.41	0.51
11:AB:3509:DC:C2'	11:AB:3510:DT:H72	2.41	0.51
11:AB:3729:DG:H1'	11:AB:3730:DC:H5'	1.92	0.51
11:AB:3776:DC:C2'	11:AB:3777:DT:H72	2.41	0.51
11:AB:3833:DC:C2'	11:AB:3834:DT:H72	2.41	0.51
11:AB:3902:DC:C2'	11:AB:3903:DT:H72	2.41	0.51
11:AB:4048:DG:H1'	11:AB:4049:DC:H5'	1.92	0.51
11:AB:4131:DG:H1'	11:AB:4132:DC:H5'	1.92	0.51
11:AB:4242:DC:C2'	11:AB:4243:DT:H72	2.41	0.51
11:AB:4253:DC:C2'	11:AB:4254:DT:H72	2.41	0.51
11:AB:4592:DC:C2'	11:AB:4593:DT:H72	2.41	0.51
11:AB:4925:DG:H1'	11:AB:4926:DC:H5'	1.92	0.51
11:AB:5003:DC:C2'	11:AB:5004:DT:H72	2.41	0.51
11:AB:5380:DC:C2'	11:AB:5381:DT:H72	2.41	0.51
11:AB:5497:DG:H1'	11:AB:5498:DC:H5'	1.92	0.51
11:AB:5861:DC:C2'	11:AB:5862:DT:H72	2.41	0.51
11:AB:5918:DC:C2'	11:AB:5919:DT:H72	2.41	0.51
11:AB:6057:DG:H1'	11:AB:6058:DC:H5'	1.92	0.51
11:AB:6227:DC:C2'	11:AB:6228:DT:H72	2.41	0.51
11:AB:6505:DG:H1'	11:AB:6506:DC:H5'	1.92	0.51
11:AB:6905:DG:H1'	11:AB:6906:DC:H5'	1.92	0.51
11:AB:7177:DG:H1'	11:AB:7178:DC:H5'	1.92	0.51
47:DD:38:DG:H1'	47:DD:39:DC:H5'	1.92	0.51
60:F2:22:DG:H1'	60:F2:23:DC:H5'	1.92	0.51
61:F3:1:DC:H5'	72:G3:28:DG:H1'	1.93	0.51
117:K5:3:DG:H1'	117:K5:4:DC:H5'	1.92	0.51
117:K5:13:DC:C2'	117:K5:14:DT:H72	2.41	0.51
117:K5:27:DG:H1'	117:K5:28:DC:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
120:K8:1:DT:H72	146:N2:24:DC:C2'	2.41	0.51
122:KA:6:DC:C2'	122:KA:7:DT:H72	2.41	0.51
143:MA:15:DC:C2'	143:MA:16:DT:H72	2.41	0.51
144:MC:19:DC:C2'	144:MC:20:DT:H72	2.41	0.51
147:N3:26:DC:C2'	147:N3:27:DT:H72	2.41	0.51
152:N9:27:DC:C2'	152:N9:28:DT:H72	2.41	0.51
161:O8:53:DG:H1'	161:O8:54:DC:H5'	1.92	0.51
162:O9:8:DC:C2'	162:O9:9:DT:H72	2.41	0.51
172:P9:22:DC:C2'	172:P9:23:DT:H72	2.41	0.51
187:R5:18:DG:H1'	187:R5:19:DC:H5'	1.92	0.51
190:R9:45:DG:H1'	190:R9:46:DC:H5'	1.92	0.51
198:S8:6:DC:C2'	198:S8:7:DT:H72	2.41	0.51
204:T3:5:DG:H1'	204:T3:6:DC:H5'	1.92	0.51
204:T3:20:DG:H1'	204:T3:21:DC:H5'	1.92	0.51
228:VC:12:DG:H1'	228:VC:13:DC:H5'	1.92	0.51
1:A1:50:DC:C2'	1:A1:51:DT:H72	2.41	0.51
7:A7:15:DG:H1'	7:A7:16:DC:H5'	1.92	0.51
11:AB:175:DC:C2'	11:AB:176:DT:H72	2.41	0.51
11:AB:379:DC:C2'	11:AB:380:DT:H72	2.41	0.51
11:AB:416:DC:C2'	11:AB:417:DT:H72	2.41	0.51
11:AB:694:DC:C2'	11:AB:695:DT:H72	2.41	0.51
11:AB:778:DC:C2'	11:AB:779:DT:H72	2.41	0.51
11:AB:1306:DC:C2'	11:AB:1307:DT:H72	2.41	0.51
11:AB:1370:DC:C2'	11:AB:1371:DT:H72	2.41	0.51
11:AB:1560:DC:C2'	11:AB:1561:DT:H72	2.41	0.51
11:AB:1574:DC:C2'	11:AB:1575:DT:H72	2.41	0.51
11:AB:1693:DC:C2'	11:AB:1694:DT:H72	2.41	0.51
11:AB:1799:DC:C2'	11:AB:1800:DT:H72	2.41	0.51
11:AB:1812:DC:C2'	11:AB:1813:DT:H72	2.41	0.51
11:AB:1954:DC:C2'	11:AB:1955:DT:H72	2.41	0.51
11:AB:1968:DC:C2'	11:AB:1969:DT:H72	2.41	0.51
11:AB:2014:DG:H1'	11:AB:2015:DC:H5'	1.92	0.51
11:AB:2100:DC:C2'	11:AB:2101:DT:H72	2.41	0.51
11:AB:2107:DC:C2'	11:AB:2108:DT:H72	2.41	0.51
11:AB:2185:DC:C2'	11:AB:2186:DT:H72	2.41	0.51
11:AB:3374:DC:C2'	11:AB:3375:DT:H72	2.41	0.51
11:AB:3446:DC:C2'	11:AB:3447:DT:H72	2.41	0.51
11:AB:3493:DC:C2'	11:AB:3494:DT:H72	2.41	0.51
11:AB:3616:DC:C2'	11:AB:3617:DT:H72	2.41	0.51
11:AB:3720:DG:H1'	11:AB:4477:DC:H5'	1.92	0.51
11:AB:3854:DC:C2'	11:AB:3855:DT:H72	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3988:DC:C2'	11:AB:3989:DT:H72	2.41	0.51
11:AB:4184:DG:H1'	11:AB:4185:DC:H5'	1.93	0.51
11:AB:4268:DC:C2'	11:AB:4269:DT:H72	2.41	0.51
11:AB:4533:DC:C2'	11:AB:4534:DT:H72	2.41	0.51
11:AB:4572:DG:H1'	11:AB:4573:DC:H5'	1.92	0.51
11:AB:4712:DC:C2'	11:AB:4713:DT:H72	2.41	0.51
11:AB:4733:DC:C2'	11:AB:4734:DT:H72	2.41	0.51
11:AB:4784:DG:H1'	11:AB:4785:DC:H5'	1.92	0.51
11:AB:4827:DC:C2'	11:AB:4828:DT:H72	2.41	0.51
11:AB:4980:DG:H1'	11:AB:4981:DC:H5'	1.92	0.51
11:AB:5020:DC:C2'	11:AB:5021:DT:H72	2.41	0.51
11:AB:5059:DC:C2'	11:AB:5060:DT:H72	2.41	0.51
11:AB:5260:DG:H1'	11:AB:5261:DC:H5'	1.92	0.51
11:AB:5636:DG:H1'	11:AB:5637:DC:H5'	1.92	0.51
11:AB:5765:DC:C2'	11:AB:5766:DT:H72	2.41	0.51
11:AB:5939:DC:C2'	11:AB:5940:DT:H72	2.41	0.51
11:AB:6154:DG:H1'	11:AB:6155:DC:H5'	1.92	0.51
11:AB:6371:DC:C2'	11:AB:6372:DT:H72	2.41	0.51
11:AB:6414:DC:C2'	11:AB:6415:DT:H72	2.41	0.51
11:AB:6476:DC:C2'	11:AB:6477:DT:H72	2.41	0.51
11:AB:6630:DG:H1'	11:AB:6631:DC:H5'	1.92	0.51
11:AB:6712:DC:C2'	11:AB:6713:DT:H72	2.42	0.51
11:AB:6805:DC:C2'	11:AB:6806:DT:H72	2.41	0.51
11:AB:7188:DC:C2'	11:AB:7189:DT:H72	2.41	0.51
20:B7:13:DG:H1'	97:I7:28:DC:H5'	1.92	0.51
23:BA:17:DG:H1'	23:BA:18:DC:H5'	1.92	0.51
35:CC:12:DC:C2'	35:CC:13:DT:H72	2.41	0.51
37:D1:36:DG:H1'	37:D1:37:DC:H5'	1.92	0.51
54:E8:5:DG:H1'	54:E8:6:DC:H5'	1.92	0.51
54:E8:21:DC:C2'	54:E8:22:DT:H72	2.41	0.51
65:F8:3:DG:H1'	65:F8:4:DC:H5'	1.92	0.51
69:FD:2:DG:H1'	69:FD:3:DC:H5'	1.92	0.51
82:H2:38:DG:H1'	82:H2:39:DC:H5'	1.92	0.51
83:H3:2:DC:C2'	83:H3:3:DT:H72	2.41	0.51
83:H3:37:DG:H1'	83:H3:38:DC:H5'	1.92	0.51
96:I6:3:DG:H1'	96:I6:4:DC:H5'	1.92	0.51
98:I8:25:DG:H1'	98:I8:26:DC:H5'	1.92	0.51
99:I9:7:DC:C2'	99:I9:8:DT:H72	2.41	0.51
101:IC:23:DC:C2'	101:IC:24:DT:H72	2.41	0.51
129:L6:21:DC:C2'	129:L6:22:DT:H72	2.41	0.51
171:P8:12:DC:C2'	171:P8:13:DT:H72	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
177:Q3:9:DC:C2'	177:Q3:10:DT:H72	2.41	0.51
181:Q9:22:DC:C2'	181:Q9:23:DT:H72	2.41	0.51
183:QC:5:DC:C2'	183:QC:6:DT:H72	2.41	0.51
186:R3:15:DC:C2'	186:R3:16:DT:H72	2.41	0.51
187:R5:31:DC:C2'	187:R5:32:DT:H72	2.41	0.51
196:S5:24:DC:C2'	196:S5:25:DT:H72	2.41	0.51
197:S7:13:DC:C2'	197:S7:14:DT:H72	2.41	0.51
204:T3:24:DG:H1'	204:T3:25:DC:H5'	1.92	0.51
206:T7:13:DC:C2'	206:T7:14:DT:H72	2.41	0.51
214:U5:8:DG:H1'	214:U5:9:DC:H5'	1.92	0.51
216:U8:19:DG:H1'	216:U8:20:DC:H5'	1.92	0.51
227:VA:27:DC:C2'	227:VA:28:DT:H72	2.41	0.51
232:W7:20:DC:C2'	232:W7:21:DT:H72	2.41	0.51
238:X9:49:DG:H1'	238:X9:50:DC:H5'	1.92	0.51
2:A2:11:DG:H1'	2:A2:12:DC:H5'	1.92	0.50
2:A2:14:DC:C2'	2:A2:15:DT:H72	2.41	0.50
11:AB:48:DC:C2'	11:AB:49:DT:H72	2.41	0.50
11:AB:79:DC:C2'	11:AB:80:DT:H72	2.42	0.50
11:AB:299:DC:C2'	11:AB:300:DT:H72	2.41	0.50
11:AB:307:DG:H1'	11:AB:308:DC:H5'	1.92	0.50
11:AB:355:DC:C2'	11:AB:356:DT:H72	2.42	0.50
11:AB:590:DG:H1'	11:AB:591:DC:H5'	1.92	0.50
11:AB:844:DC:C2'	11:AB:845:DT:H72	2.41	0.50
11:AB:887:DC:C2'	11:AB:888:DT:H72	2.42	0.50
11:AB:1183:DC:C2'	11:AB:1184:DT:H72	2.41	0.50
11:AB:1353:DC:C2'	11:AB:1354:DT:H72	2.41	0.50
11:AB:1499:DC:C2'	11:AB:1500:DT:H72	2.41	0.50
11:AB:1801:DC:C2'	11:AB:1802:DT:H72	2.41	0.50
11:AB:1915:DC:C2'	11:AB:1916:DT:H72	2.41	0.50
11:AB:1932:DC:C2'	11:AB:1933:DT:H72	2.41	0.50
11:AB:1981:DG:H1'	11:AB:1982:DC:H5'	1.92	0.50
11:AB:2041:DC:C2'	11:AB:2042:DT:H72	2.41	0.50
11:AB:2176:DC:C2'	11:AB:2177:DT:H72	2.41	0.50
11:AB:2242:DC:C2'	11:AB:2243:DT:H72	2.42	0.50
11:AB:2277:DC:C2'	11:AB:2278:DT:H72	2.41	0.50
11:AB:2281:DC:C2'	11:AB:2282:DT:H72	2.41	0.50
11:AB:2383:DC:C2'	11:AB:2384:DT:H72	2.41	0.50
11:AB:2638:DC:C2'	11:AB:2639:DT:H72	2.42	0.50
11:AB:2645:DC:C2'	11:AB:2646:DT:H72	2.42	0.50
11:AB:3185:DC:C2'	11:AB:3186:DT:H72	2.41	0.50
11:AB:3424:DG:H1'	11:AB:3425:DC:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3452:DC:C2'	11:AB:3453:DT:H72	2.41	0.50
11:AB:3500:DC:C2'	11:AB:3501:DT:H72	2.41	0.50
11:AB:3542:DG:H1'	11:AB:3543:DC:H5'	1.92	0.50
11:AB:3686:DC:C2'	11:AB:3687:DT:H72	2.41	0.50
11:AB:3827:DC:C2'	11:AB:3828:DT:H72	2.41	0.50
11:AB:3872:DC:C2'	11:AB:3873:DT:H72	2.41	0.50
11:AB:3938:DC:C2'	11:AB:3939:DT:H72	2.42	0.50
11:AB:3977:DC:C2'	11:AB:3978:DT:H72	2.41	0.50
11:AB:4362:DC:C2'	11:AB:4363:DT:H72	2.41	0.50
11:AB:4472:DG:H1'	11:AB:4473:DC:H5'	1.92	0.50
11:AB:4502:DC:C2'	11:AB:4503:DT:H72	2.42	0.50
11:AB:4840:DC:C2'	11:AB:4841:DT:H72	2.41	0.50
11:AB:4865:DG:H1'	11:AB:4866:DC:H5'	1.92	0.50
11:AB:5079:DC:C2'	11:AB:5080:DT:H72	2.41	0.50
11:AB:5119:DG:H1'	11:AB:5120:DC:H5'	1.93	0.50
11:AB:5239:DC:C2'	11:AB:5240:DT:H72	2.42	0.50
11:AB:5242:DG:H1'	11:AB:5243:DC:H5'	1.92	0.50
11:AB:5431:DC:C2'	11:AB:5432:DT:H72	2.42	0.50
11:AB:5491:DC:C2'	11:AB:5492:DT:H72	2.42	0.50
11:AB:5522:DC:C2'	11:AB:5523:DT:H72	2.41	0.50
11:AB:5678:DC:C2'	11:AB:5679:DT:H72	2.42	0.50
11:AB:5848:DG:H1'	11:AB:5849:DC:H5'	1.92	0.50
11:AB:5963:DC:C2'	11:AB:5964:DT:H72	2.42	0.50
11:AB:6025:DC:C2'	11:AB:6026:DT:H72	2.42	0.50
11:AB:6139:DC:C2'	11:AB:6140:DT:H72	2.41	0.50
11:AB:6284:DC:C2'	11:AB:6285:DT:H72	2.41	0.50
11:AB:6349:DG:H1'	11:AB:6350:DC:H5'	1.92	0.50
11:AB:6392:DC:C2'	11:AB:6393:DT:H72	2.42	0.50
11:AB:6395:DC:C2'	11:AB:6396:DT:H72	2.42	0.50
11:AB:6464:DC:C2'	11:AB:6465:DT:H72	2.42	0.50
11:AB:6555:DC:C2'	11:AB:6556:DT:H72	2.42	0.50
11:AB:6602:DC:C2'	11:AB:6603:DT:H72	2.41	0.50
11:AB:6860:DC:C2'	11:AB:6861:DT:H72	2.41	0.50
11:AB:7045:DC:C2'	11:AB:7046:DT:H72	2.42	0.50
11:AB:7114:DC:C2'	11:AB:7115:DT:H72	2.42	0.50
23:BA:24:DC:C2'	23:BA:25:DT:H72	2.41	0.50
26:C1:14:DC:C2'	26:C1:15:DT:H72	2.41	0.50
29:C5:23:DC:C2'	29:C5:24:DT:H72	2.41	0.50
43:D8:18:DC:C2'	43:D8:19:DT:H72	2.41	0.50
46:DC:9:DC:C2'	46:DC:10:DT:H72	2.42	0.50
60:F2:5:DG:H1'	60:F2:6:DC:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:F5:20:DC:C2'	62:F5:21:DT:H72	2.41	0.50
65:F8:1:DC:C2'	65:F8:2:DT:H72	2.42	0.50
73:G5:3:DC:C2'	73:G5:4:DT:H72	2.42	0.50
76:G8:7:DG:H1'	76:G8:8:DC:H5'	1.92	0.50
82:H2:32:DC:C2'	82:H2:33:DT:H72	2.41	0.50
82:H2:44:DC:C2'	82:H2:45:DT:H72	2.41	0.50
84:H5:36:DC:C2'	84:H5:37:DT:H72	2.41	0.50
93:I2:46:DC:C2'	93:I2:47:DT:H72	2.41	0.50
103:J1:7:DC:C2'	175:PD:7:DT:H72	2.42	0.50
141:M8:19:DC:C2'	141:M8:20:DT:H72	2.41	0.50
141:M8:27:DC:C2'	141:M8:28:DT:H72	2.41	0.50
143:MA:32:DC:C2'	143:MA:33:DT:H72	2.41	0.50
152:N9:18:DG:H1'	152:N9:19:DC:H5'	1.92	0.50
156:O2:45:DG:H1'	156:O2:46:DC:H5'	1.92	0.50
167:P3:23:DC:C2'	167:P3:24:DT:H72	2.41	0.50
181:Q9:7:DC:C2'	181:Q9:8:DT:H72	2.41	0.50
209:TA:27:DG:H1'	209:TA:28:DC:H5'	1.92	0.50
209:TA:33:DG:H1'	209:TA:34:DC:H5'	1.92	0.50
210:TC:12:DC:C2'	210:TC:13:DT:H72	2.41	0.50
215:U7:19:DC:C2'	215:U7:20:DT:H72	2.41	0.50
230:W3:31:DC:C2'	230:W3:32:DT:H72	2.42	0.50
234:W9:10:DC:C2'	234:W9:11:DT:H72	2.42	0.50
7:A7:37:DC:C2'	7:A7:38:DT:H72	2.42	0.50
10:AA:17:DG:H1'	10:AA:18:DC:H5'	1.92	0.50
11:AB:256:DC:C2'	11:AB:257:DT:H72	2.41	0.50
11:AB:386:DG:H1'	11:AB:387:DC:H5'	1.92	0.50
11:AB:448:DC:C2'	11:AB:449:DT:H72	2.42	0.50
11:AB:529:DC:C2'	11:AB:530:DT:H72	2.42	0.50
11:AB:544:DC:C2'	11:AB:545:DT:H72	2.42	0.50
11:AB:592:DC:C2'	11:AB:593:DT:H72	2.41	0.50
11:AB:712:DC:C2'	11:AB:713:DT:H72	2.41	0.50
11:AB:877:DC:C2'	11:AB:878:DT:H72	2.42	0.50
11:AB:904:DC:C2'	11:AB:905:DT:H72	2.42	0.50
11:AB:1012:DC:C2'	11:AB:1013:DT:H72	2.42	0.50
11:AB:1078:DC:C2'	11:AB:1079:DT:H72	2.41	0.50
11:AB:1166:DC:C2'	11:AB:1167:DT:H72	2.42	0.50
11:AB:1169:DT:H72	11:AB:6338:DC:C2'	2.41	0.50
11:AB:1210:DC:C2'	11:AB:1211:DT:H72	2.41	0.50
11:AB:1466:DC:C2'	11:AB:1467:DT:H72	2.42	0.50
11:AB:1511:DC:C2'	11:AB:1512:DT:H72	2.42	0.50
11:AB:1562:DC:C2'	11:AB:1563:DT:H72	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1598:DC:C2'	11:AB:1599:DT:H72	2.42	0.50
11:AB:1706:DG:H1'	11:AB:1707:DC:H5'	1.92	0.50
11:AB:2025:DC:C2'	11:AB:2026:DT:H72	2.41	0.50
11:AB:2152:DC:C2'	11:AB:2153:DT:H72	2.42	0.50
11:AB:2260:DC:C2'	11:AB:2261:DT:H72	2.41	0.50
11:AB:2437:DC:C2'	11:AB:2438:DT:H72	2.41	0.50
11:AB:2529:DC:C2'	11:AB:2530:DT:H72	2.42	0.50
11:AB:2658:DC:C2'	11:AB:2659:DT:H72	2.41	0.50
11:AB:2692:DC:C2'	11:AB:2693:DT:H72	2.41	0.50
11:AB:2877:DG:H1'	11:AB:2878:DC:H5'	1.92	0.50
11:AB:2883:DG:H1'	11:AB:2884:DC:H5'	1.92	0.50
11:AB:2992:DC:C2'	11:AB:2993:DT:H72	2.41	0.50
11:AB:3047:DC:C2'	11:AB:3048:DT:H72	2.42	0.50
11:AB:3053:DC:C2'	11:AB:3054:DT:H72	2.41	0.50
11:AB:3515:DC:C2'	11:AB:3516:DT:H72	2.41	0.50
11:AB:3584:DG:H1'	11:AB:3585:DC:H5'	1.92	0.50
11:AB:3641:DC:C2'	11:AB:3642:DT:H72	2.42	0.50
11:AB:3769:DG:H1'	11:AB:3770:DC:H5'	1.92	0.50
11:AB:3904:DC:C2'	11:AB:3905:DT:H72	2.41	0.50
11:AB:4012:DT:H72	11:AB:4347:DC:C2'	2.41	0.50
11:AB:4149:DC:C2'	11:AB:4150:DT:H72	2.42	0.50
11:AB:4159:DC:C2'	11:AB:4160:DT:H72	2.42	0.50
11:AB:4525:DG:H1'	11:AB:4526:DC:H5'	1.92	0.50
11:AB:4665:DG:H1'	11:AB:4666:DC:H5'	1.92	0.50
11:AB:5063:DC:C2'	11:AB:5064:DT:H72	2.41	0.50
11:AB:5075:DC:C2'	11:AB:5076:DT:H72	2.41	0.50
11:AB:5140:DC:C2'	11:AB:5141:DT:H72	2.41	0.50
11:AB:5476:DC:C2'	11:AB:5477:DT:H72	2.42	0.50
11:AB:5549:DC:C2'	11:AB:5550:DT:H72	2.41	0.50
11:AB:5585:DC:C2'	11:AB:5586:DT:H72	2.41	0.50
11:AB:5606:DC:C2'	11:AB:5607:DT:H72	2.41	0.50
11:AB:5615:DC:C2'	11:AB:5616:DT:H72	2.42	0.50
11:AB:5800:DC:C2'	11:AB:5801:DT:H72	2.41	0.50
11:AB:5981:DC:C2'	11:AB:5982:DT:H72	2.41	0.50
11:AB:6024:DG:H1'	11:AB:6025:DC:H5'	1.92	0.50
11:AB:6030:DG:H1'	11:AB:6031:DC:H5'	1.92	0.50
11:AB:6053:DC:C2'	11:AB:6054:DT:H72	2.41	0.50
11:AB:6105:DC:C2'	11:AB:6106:DT:H72	2.42	0.50
11:AB:6182:DC:C2'	11:AB:6183:DT:H72	2.41	0.50
11:AB:6196:DC:C2'	11:AB:6197:DT:H72	2.42	0.50
11:AB:6218:DG:H1'	11:AB:6219:DC:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6381:DC:C2'	11:AB:6382:DT:H72	2.42	0.50
11:AB:6400:DG:H1'	11:AB:6401:DC:H5'	1.92	0.50
11:AB:6533:DC:C2'	11:AB:6534:DT:H72	2.41	0.50
11:AB:6637:DC:C2'	11:AB:6638:DT:H72	2.41	0.50
11:AB:6693:DG:H1'	11:AB:6694:DC:H5'	1.92	0.50
11:AB:6835:DC:C2'	11:AB:6836:DT:H72	2.42	0.50
11:AB:7166:DC:C2'	11:AB:7167:DT:H72	2.42	0.50
32:C8:48:DC:C2'	32:C8:49:DT:H72	2.42	0.50
41:D6:45:DC:C2'	41:D6:46:DT:H72	2.42	0.50
43:D8:10:DC:C2'	43:D8:11:DT:H72	2.42	0.50
47:DD:29:DG:H1'	47:DD:30:DC:H5'	1.92	0.50
48:E1:12:DG:H1'	48:E1:13:DC:H5'	1.92	0.50
52:E6:16:DG:H1'	52:E6:17:DC:H5'	1.92	0.50
54:E8:18:DC:C2'	54:E8:19:DT:H72	2.41	0.50
55:E9:23:DC:C2'	55:E9:24:DT:H72	2.41	0.50
57:EC:16:DC:C2'	57:EC:17:DT:H72	2.41	0.50
59:F1:11:DC:C2'	59:F1:12:DT:H72	2.42	0.50
60:F2:7:DC:C2'	60:F2:8:DT:H72	2.42	0.50
64:F7:7:DC:C2'	64:F7:8:DT:H72	2.42	0.50
65:F8:4:DC:C2'	65:F8:5:DT:H72	2.42	0.50
75:G7:26:DG:H1'	75:G7:27:DC:H5'	1.92	0.50
77:G9:1:DC:C2'	77:G9:2:DT:H72	2.41	0.50
82:H2:21:DG:H1'	82:H2:22:DC:H5'	1.92	0.50
88:H9:12:DC:C2'	88:H9:13:DT:H72	2.41	0.50
90:HC:5:DC:C2'	90:HC:6:DT:H72	2.41	0.50
94:I3:47:DG:H1'	94:I3:48:DC:H5'	1.92	0.50
104:J2:18:DC:C2'	104:J2:19:DT:H72	2.41	0.50
104:J2:30:DC:C2'	104:J2:31:DT:H72	2.42	0.50
108:J7:51:DC:C2'	108:J7:52:DT:H72	2.41	0.50
112:JC:13:DC:C2'	112:JC:14:DT:H72	2.41	0.50
117:K5:10:DC:C2'	117:K5:11:DT:H72	2.41	0.50
117:K5:29:DC:C2'	117:K5:30:DT:H72	2.42	0.50
117:K5:40:DG:H1'	117:K5:41:DC:H5'	1.92	0.50
118:K6:9:DG:H1'	118:K6:10:DC:H5'	1.92	0.50
133:LA:7:DC:C2'	133:LA:8:DT:H72	2.41	0.50
140:M7:9:DC:C2'	140:M7:10:DT:H72	2.41	0.50
143:MA:30:DG:H1'	143:MA:31:DC:H5'	1.92	0.50
158:O5:51:DC:C2'	158:O5:52:DT:H72	2.42	0.50
160:O7:21:DC:C2'	160:O7:22:DT:H72	2.41	0.50
165:OD:56:DC:C2'	165:OD:57:DT:H72	2.42	0.50
171:P8:7:DC:C2'	171:P8:8:DT:H72	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
178:Q5:12:DC:C2'	178:Q5:13:DT:H72	2.41	0.50
186:R3:13:DG:H1'	204:T3:8:DC:H5'	1.92	0.50
187:R5:12:DC:C2'	187:R5:13:DT:H72	2.41	0.50
189:R8:16:DC:C2'	189:R8:17:DT:H72	2.41	0.50
195:S3:3:DC:C2'	195:S3:4:DT:H72	2.42	0.50
195:S3:7:DG:H1'	195:S3:8:DC:H5'	1.92	0.50
203:T2:5:DC:C2'	203:T2:6:DT:H72	2.42	0.50
208:T9:9:DC:C2'	208:T9:10:DT:H72	2.42	0.50
209:TA:12:DG:H1'	209:TA:13:DC:H5'	1.92	0.50
212:U2:5:DC:C2'	212:U2:6:DT:H72	2.41	0.50
214:U5:10:DC:C2'	214:U5:11:DT:H72	2.42	0.50
217:U9:12:DC:C2'	217:U9:13:DT:H72	2.42	0.50
219:UC:6:DC:C2'	219:UC:7:DT:H72	2.42	0.50
2:A2:21:DC:C2'	2:A2:22:DT:H72	2.41	0.50
11:AB:187:DC:C2'	11:AB:188:DT:H72	2.41	0.50
11:AB:295:DC:C2'	11:AB:296:DT:H72	2.42	0.50
11:AB:312:DC:C2'	11:AB:313:DT:H72	2.42	0.50
11:AB:472:DC:C2'	11:AB:473:DT:H72	2.41	0.50
11:AB:536:DG:H1'	11:AB:537:DC:H5'	1.92	0.50
11:AB:571:DC:C2'	11:AB:572:DT:H72	2.41	0.50
11:AB:853:DC:C2'	11:AB:854:DT:H72	2.41	0.50
11:AB:919:DC:C2'	11:AB:920:DT:H72	2.42	0.50
11:AB:1000:DC:C2'	11:AB:1001:DT:H72	2.41	0.50
11:AB:1096:DC:C2'	11:AB:1097:DT:H72	2.41	0.50
11:AB:1132:DC:C2'	11:AB:1133:DT:H72	2.41	0.50
11:AB:1146:DG:H1'	11:AB:1147:DC:H5'	1.92	0.50
11:AB:1147:DC:C2'	11:AB:1148:DT:H72	2.41	0.50
11:AB:1475:DC:C2'	11:AB:1476:DT:H72	2.41	0.50
11:AB:1626:DC:C2'	11:AB:1627:DT:H72	2.42	0.50
11:AB:1960:DC:C2'	11:AB:1961:DT:H72	2.41	0.50
11:AB:2033:DG:H1'	11:AB:5858:DC:H5'	1.92	0.50
11:AB:2764:DC:C2'	11:AB:2765:DT:H72	2.41	0.50
11:AB:2897:DC:C2'	11:AB:2898:DT:H72	2.41	0.50
11:AB:3003:DC:C2'	11:AB:3004:DT:H72	2.41	0.50
11:AB:3022:DG:H1'	11:AB:3023:DC:H5'	1.92	0.50
11:AB:3320:DC:C2'	11:AB:3321:DT:H72	2.41	0.50
11:AB:3340:DC:C2'	11:AB:3341:DT:H72	2.41	0.50
11:AB:3485:DC:C2'	11:AB:3486:DT:H72	2.41	0.50
11:AB:3645:DC:C2'	11:AB:3646:DT:H72	2.41	0.50
11:AB:3764:DC:C2'	11:AB:3765:DT:H72	2.41	0.50
11:AB:3790:DG:H1'	11:AB:4463:DC:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3941:DC:C2'	11:AB:3942:DT:H72	2.41	0.50
11:AB:3991:DC:C2'	11:AB:3992:DT:H72	2.41	0.50
11:AB:4124:DC:C2'	11:AB:4125:DT:H72	2.41	0.50
11:AB:4136:DC:C2'	11:AB:4137:DT:H72	2.41	0.50
11:AB:4141:DG:H1'	11:AB:4142:DC:H5'	1.92	0.50
11:AB:4155:DC:C2'	11:AB:4156:DT:H72	2.41	0.50
11:AB:4325:DC:C2'	11:AB:4326:DT:H72	2.41	0.50
11:AB:4548:DC:C2'	11:AB:4549:DT:H72	2.41	0.50
11:AB:4626:DC:C2'	11:AB:4627:DT:H72	2.41	0.50
11:AB:4654:DG:H1'	11:AB:4655:DC:H5'	1.92	0.50
11:AB:4689:DG:H1'	11:AB:4690:DC:H5'	1.92	0.50
11:AB:4726:DC:C2'	11:AB:4727:DT:H72	2.41	0.50
11:AB:4855:DC:C2'	11:AB:4856:DT:H72	2.41	0.50
11:AB:4913:DC:C2'	11:AB:4914:DT:H72	2.42	0.50
11:AB:4959:DG:H1'	11:AB:4960:DC:H5'	1.92	0.50
11:AB:4983:DC:C2'	11:AB:4984:DT:H72	2.42	0.50
11:AB:5216:DC:C2'	11:AB:5217:DT:H72	2.41	0.50
11:AB:5376:DC:C2'	11:AB:5377:DT:H72	2.41	0.50
11:AB:5996:DC:C2'	11:AB:5997:DT:H72	2.41	0.50
11:AB:6211:DG:H1'	11:AB:6212:DC:H5'	1.92	0.50
11:AB:6406:DG:H1'	11:AB:6407:DC:H5'	1.92	0.50
11:AB:6436:DC:C2'	11:AB:6437:DT:H72	2.42	0.50
11:AB:6503:DC:C2'	11:AB:6504:DT:H72	2.41	0.50
11:AB:6547:DC:C2'	11:AB:6548:DT:H72	2.42	0.50
11:AB:6614:DC:C2'	11:AB:6615:DT:H72	2.41	0.50
11:AB:6840:DC:C2'	11:AB:6841:DT:H72	2.41	0.50
11:AB:6855:DC:C2'	11:AB:6856:DT:H72	2.42	0.50
11:AB:6862:DC:C2'	11:AB:6863:DT:H72	2.41	0.50
11:AB:7000:DC:C2'	11:AB:7001:DT:H72	2.42	0.50
11:AB:7161:DC:C2'	11:AB:7162:DT:H72	2.42	0.50
22:B9:6:DC:C2'	22:B9:7:DT:H72	2.41	0.50
22:B9:20:DC:C2'	22:B9:21:DT:H72	2.41	0.50
22:B9:38:DC:C2'	22:B9:39:DT:H72	2.42	0.50
35:CC:31:DG:H1'	35:CC:32:DC:H5'	1.92	0.50
43:D8:27:DC:C2'	43:D8:28:DT:H72	2.42	0.50
46:DC:8:DG:H1'	46:DC:9:DC:H5'	1.92	0.50
51:E5:25:DG:H1'	51:E5:26:DC:H5'	1.92	0.50
52:E6:24:DC:C2'	52:E6:25:DT:H72	2.42	0.50
62:F5:7:DC:C2'	62:F5:8:DT:H72	2.41	0.50
85:H6:24:DC:C2'	85:H6:25:DT:H72	2.42	0.50
90:HC:19:DC:C2'	90:HC:20:DT:H72	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
95:I5:3:DC:C2'	95:I5:4:DT:H72	2.42	0.50
99:I9:18:DC:C2'	99:I9:19:DT:H72	2.42	0.50
107:J6:23:DC:C2'	107:J6:24:DT:H72	2.42	0.50
112:JC:2:DG:H1'	112:JC:3:DC:H5'	1.92	0.50
114:K1:39:DC:C2'	114:K1:40:DT:H72	2.41	0.50
118:K6:16:DC:C2'	118:K6:17:DT:H72	2.42	0.50
128:L5:10:DG:H1'	128:L5:11:DC:H5'	1.92	0.50
145:MD:38:DG:H1'	145:MD:39:DC:H5'	1.92	0.50
163:OA:2:DG:H1'	163:OA:3:DC:H5'	1.92	0.50
166:P2:33:DC:C2'	166:P2:34:DT:H72	2.42	0.50
173:PA:36:DG:H1'	173:PA:37:DC:H5'	1.92	0.50
174:PC:7:DG:H1'	174:PC:8:DC:H5'	1.92	0.50
179:Q7:22:DG:H1'	179:Q7:23:DC:H5'	1.92	0.50
180:Q8:22:DC:C2'	180:Q8:23:DT:H72	2.41	0.50
187:R5:10:DG:H1'	187:R5:11:DC:H5'	1.92	0.50
189:R8:8:DC:C2'	189:R8:9:DT:H72	2.41	0.50
202:SD:12:DC:C2'	202:SD:13:DT:H72	2.42	0.50
209:TA:34:DC:C2'	209:TA:35:DT:H72	2.41	0.50
213:U3:20:DC:C2'	213:U3:21:DT:H72	2.41	0.50
214:U5:17:DG:H1'	214:U5:18:DC:H5'	1.92	0.50
223:V5:22:DG:H1'	223:V5:23:DC:H5'	1.92	0.50
228:VC:20:DC:C2'	228:VC:21:DT:H72	2.42	0.50
233:W8:18:DG:H1'	233:W8:19:DC:H5'	1.92	0.50
238:X9:5:DC:C2'	238:X9:6:DT:H72	2.41	0.50
8:A8:22:DC:C2'	8:A8:23:DT:H72	2.41	0.50
11:AB:204:DG:H1'	11:AB:205:DC:H5'	1.92	0.50
11:AB:205:DC:C2'	11:AB:206:DT:H72	2.41	0.50
11:AB:387:DC:C2'	11:AB:388:DT:H72	2.41	0.50
11:AB:565:DC:C2'	11:AB:566:DT:H72	2.41	0.50
11:AB:586:DC:C2'	11:AB:587:DT:H72	2.41	0.50
11:AB:594:DC:C2'	11:AB:595:DT:H72	2.41	0.50
11:AB:649:DC:C2'	11:AB:650:DT:H72	2.41	0.50
11:AB:670:DC:C2'	11:AB:671:DT:H72	2.41	0.50
11:AB:826:DC:C2'	11:AB:827:DT:H72	2.41	0.50
11:AB:831:DC:C2'	11:AB:832:DT:H72	2.41	0.50
11:AB:863:DC:C2'	11:AB:864:DT:H72	2.41	0.50
11:AB:865:DC:C2'	11:AB:866:DT:H72	2.42	0.50
11:AB:1048:DC:C2'	11:AB:1049:DT:H72	2.41	0.50
11:AB:1095:DG:H1'	11:AB:1096:DC:H5'	1.92	0.50
11:AB:1161:DG:H1'	11:AB:1162:DC:H5'	1.92	0.50
11:AB:1162:DC:C2'	11:AB:1163:DT:H72	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1245:DC:C2'	11:AB:1246:DT:H72	2.41	0.50
11:AB:1343:DC:C2'	11:AB:1344:DT:H72	2.41	0.50
11:AB:1387:DC:C2'	11:AB:1388:DT:H72	2.41	0.50
11:AB:1522:DC:C2'	11:AB:1523:DT:H72	2.41	0.50
11:AB:1556:DC:C2'	11:AB:1557:DT:H72	2.41	0.50
11:AB:1573:DG:H1'	11:AB:1574:DC:H5'	1.92	0.50
11:AB:1675:DC:C2'	11:AB:1676:DT:H72	2.41	0.50
11:AB:1691:DC:C2'	11:AB:1692:DT:H72	2.41	0.50
11:AB:1695:DC:C2'	11:AB:1696:DT:H72	2.41	0.50
11:AB:2296:DG:H1'	11:AB:2297:DC:H5'	1.92	0.50
11:AB:2332:DC:C2'	11:AB:2333:DT:H72	2.41	0.50
11:AB:2425:DC:C2'	11:AB:2426:DT:H72	2.41	0.50
11:AB:2618:DC:C2'	11:AB:2619:DT:H72	2.41	0.50
11:AB:2918:DG:H1'	11:AB:2919:DC:H5'	1.92	0.50
11:AB:2960:DC:C2'	11:AB:2961:DT:H72	2.41	0.50
11:AB:3011:DC:C2'	11:AB:3012:DT:H72	2.41	0.50
11:AB:3159:DC:C2'	11:AB:3160:DT:H72	2.41	0.50
11:AB:3263:DC:C2'	11:AB:3264:DT:H72	2.41	0.50
11:AB:3284:DC:C2'	11:AB:3285:DT:H72	2.41	0.50
11:AB:3443:DC:C2'	11:AB:3444:DT:H72	2.41	0.50
11:AB:3464:DC:C2'	11:AB:3465:DT:H72	2.41	0.50
11:AB:3473:DG:H1'	11:AB:3474:DC:H5'	1.92	0.50
11:AB:3530:DG:H1'	11:AB:4791:DC:H5'	1.92	0.50
11:AB:3556:DC:C2'	11:AB:3557:DT:H72	2.41	0.50
11:AB:3647:DC:C2'	11:AB:3648:DT:H72	2.41	0.50
11:AB:3653:DG:H1'	11:AB:3654:DC:H5'	1.92	0.50
11:AB:3674:DC:C2'	11:AB:3675:DT:H72	2.41	0.50
11:AB:3695:DC:C2'	11:AB:3696:DT:H72	2.42	0.50
11:AB:4004:DG:H1'	11:AB:4005:DC:H5'	1.92	0.50
11:AB:4005:DC:C2'	11:AB:4006:DT:H72	2.41	0.50
11:AB:4007:DC:C2'	11:AB:4008:DT:H72	2.41	0.50
11:AB:4038:DG:H1'	11:AB:4039:DC:H5'	1.92	0.50
11:AB:4085:DG:H1'	11:AB:4086:DC:H5'	1.92	0.50
11:AB:4127:DG:H1'	11:AB:4128:DC:H5'	1.92	0.50
11:AB:4428:DG:H1'	11:AB:4429:DC:H5'	1.92	0.50
11:AB:4493:DG:H1'	11:AB:4494:DC:H5'	1.92	0.50
11:AB:4532:DG:H1'	11:AB:4533:DC:H5'	1.92	0.50
11:AB:4647:DC:C2'	11:AB:4648:DT:H72	2.42	0.50
11:AB:4672:DG:H1'	11:AB:4673:DC:H5'	1.92	0.50
11:AB:4694:DC:C2'	11:AB:4695:DT:H72	2.42	0.50
11:AB:4719:DC:C2'	11:AB:4720:DT:H72	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4859:DG:H1'	11:AB:4860:DC:H5'	1.92	0.50
11:AB:5050:DG:H1'	11:AB:5051:DC:H5'	1.92	0.50
11:AB:5091:DC:C2'	11:AB:5092:DT:H72	2.41	0.50
11:AB:5113:DG:H1'	11:AB:5114:DC:H5'	1.92	0.50
11:AB:5155:DC:C2'	11:AB:5156:DT:H72	2.41	0.50
11:AB:5215:DG:H1'	11:AB:5216:DC:H5'	1.92	0.50
11:AB:5397:DC:C2'	11:AB:5398:DT:H72	2.41	0.50
11:AB:5461:DC:C2'	11:AB:5462:DT:H72	2.41	0.50
11:AB:5521:DG:H1'	11:AB:5522:DC:H5'	1.92	0.50
11:AB:5527:DC:C2'	11:AB:5528:DT:H72	2.41	0.50
11:AB:5795:DC:C2'	11:AB:5796:DT:H72	2.41	0.50
11:AB:6064:DG:H1'	11:AB:6065:DC:H5'	1.92	0.50
11:AB:6113:DC:C2'	11:AB:6114:DT:H72	2.42	0.50
11:AB:6408:DC:C2'	11:AB:6409:DT:H72	2.41	0.50
11:AB:6721:DC:C2'	11:AB:6722:DT:H72	2.41	0.50
11:AB:6736:DC:C2'	11:AB:6737:DT:H72	2.41	0.50
11:AB:6792:DC:C2'	11:AB:6793:DT:H72	2.41	0.50
11:AB:6888:DC:C2'	11:AB:6889:DT:H72	2.41	0.50
11:AB:7191:DC:C2'	11:AB:7192:DT:H72	2.41	0.50
11:AB:7237:DC:C2'	11:AB:7238:DT:H72	2.41	0.50
18:B5:8:DG:H1'	18:B5:9:DC:H5'	1.92	0.50
37:D1:1:DC:C2'	37:D1:2:DT:H72	2.41	0.50
39:D3:6:DC:C2'	39:D3:7:DT:H72	2.41	0.50
41:D6:6:DC:C2'	41:D6:7:DT:H72	2.41	0.50
51:E5:26:DC:C2'	51:E5:27:DT:H72	2.41	0.50
63:F6:9:DG:H1'	63:F6:10:DC:H5'	1.92	0.50
66:F9:7:DG:H1'	66:F9:8:DC:H5'	1.92	0.50
80:GD:21:DG:H1'	80:GD:22:DC:H5'	1.92	0.50
88:H9:27:DG:H1'	88:H9:28:DC:H5'	1.92	0.50
91:HD:19:DG:H1'	91:HD:20:DC:H5'	1.92	0.50
93:I2:30:DG:H1'	93:I2:31:DC:H5'	1.92	0.50
106:J5:8:DC:C2'	106:J5:9:DT:H72	2.41	0.50
107:J6:27:DC:C2'	107:J6:28:DT:H72	2.42	0.50
110:J9:21:DC:C2'	110:J9:22:DT:H72	2.42	0.50
119:K7:33:DC:C2'	119:K7:34:DT:H72	2.41	0.50
124:KD:4:DC:C2'	124:KD:5:DT:H72	2.41	0.50
125:L1:37:DC:C2'	125:L1:38:DT:H72	2.41	0.50
128:L5:6:DC:C2'	128:L5:7:DT:H72	2.41	0.50
156:O2:11:DG:H1'	156:O2:12:DC:H5'	1.92	0.50
159:O6:5:DG:H1'	159:O6:6:DC:H5'	1.92	0.50
161:O8:17:DC:C2'	161:O8:18:DT:H72	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
167:P3:33:DC:C2'	167:P3:34:DT:H72	2.41	0.50
174:PC:23:DG:H1'	174:PC:24:DC:H5'	1.92	0.50
176:Q2:11:DC:C2'	176:Q2:12:DT:H72	2.42	0.50
204:T3:15:DC:C2'	204:T3:16:DT:H72	2.41	0.50
207:T8:17:DC:C2'	207:T8:18:DT:H72	2.41	0.50
210:TC:6:DC:C2'	210:TC:7:DT:H72	2.42	0.50
212:U2:10:DG:H1'	212:U2:11:DC:H5'	1.92	0.50
213:U3:19:DG:H1'	213:U3:20:DC:H5'	1.92	0.50
214:U5:18:DC:C2'	214:U5:19:DT:H72	2.41	0.50
220:UD:1:DC:C2'	220:UD:2:DT:H72	2.41	0.50
221:V2:1:DC:C2'	221:V2:2:DT:H72	2.41	0.50
227:VA:20:DG:H1'	227:VA:21:DC:H5'	1.92	0.50
5:A5:23:DG:H1'	5:A5:24:DC:H5'	1.92	0.50
11:AB:191:DC:C2'	11:AB:192:DT:H72	2.41	0.50
11:AB:200:DC:C2'	11:AB:201:DT:H72	2.41	0.50
11:AB:263:DC:C2'	11:AB:264:DT:H72	2.41	0.50
11:AB:500:DC:C2'	11:AB:501:DT:H72	2.41	0.50
11:AB:519:DC:C2'	11:AB:520:DT:H72	2.41	0.50
11:AB:768:DG:H1'	11:AB:769:DC:H5'	1.92	0.50
11:AB:1011:DG:H1'	11:AB:1012:DC:H5'	1.92	0.50
11:AB:1131:DG:H1'	11:AB:1132:DC:H5'	1.92	0.50
11:AB:1165:DG:H1'	11:AB:1166:DC:H5'	1.92	0.50
11:AB:1404:DC:C2'	11:AB:1405:DT:H72	2.41	0.50
11:AB:1624:DC:C2'	11:AB:1625:DT:H72	2.41	0.50
11:AB:1704:DC:C2'	11:AB:1705:DT:H72	2.41	0.50
11:AB:1914:DG:H1'	11:AB:1915:DC:H5'	1.92	0.50
11:AB:1927:DG:H1'	11:AB:1928:DC:H5'	1.92	0.50
11:AB:2843:DC:C2'	11:AB:2844:DT:H72	2.41	0.50
11:AB:3143:DC:C2'	11:AB:3144:DT:H72	2.42	0.50
11:AB:3146:DC:C2'	11:AB:3147:DT:H72	2.41	0.50
11:AB:3214:DG:H1'	11:AB:3215:DC:H5'	1.92	0.50
11:AB:3270:DC:C2'	11:AB:3271:DT:H72	2.41	0.50
11:AB:3352:DC:C2'	11:AB:3353:DT:H72	2.41	0.50
11:AB:3512:DC:C2'	11:AB:3513:DT:H72	2.41	0.50
11:AB:3953:DG:H1'	11:AB:3954:DC:H5'	1.92	0.50
11:AB:3999:DC:C2'	11:AB:4000:DT:H72	2.41	0.50
11:AB:4066:DC:C2'	11:AB:4067:DT:H72	2.41	0.50
11:AB:4172:DC:C2'	11:AB:4173:DT:H72	2.42	0.50
11:AB:4360:DC:C2'	11:AB:4361:DT:H72	2.41	0.50
11:AB:4467:DC:C2'	11:AB:4468:DT:H72	2.41	0.50
11:AB:4544:DC:C2'	11:AB:4545:DT:H72	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4690:DC:C2'	11:AB:4691:DT:H72	2.41	0.50
11:AB:4846:DG:H1'	11:AB:4847:DC:H5'	1.92	0.50
11:AB:5459:DC:C2'	11:AB:5460:DT:H72	2.41	0.50
11:AB:5499:DC:C2'	11:AB:5500:DT:H72	2.41	0.50
11:AB:5529:DC:C2'	11:AB:5530:DT:H72	2.41	0.50
11:AB:5534:DG:H1'	11:AB:5535:DC:H5'	1.92	0.50
11:AB:5699:DC:C2'	11:AB:5700:DT:H72	2.41	0.50
11:AB:6103:DC:C2'	11:AB:6104:DT:H72	2.41	0.50
11:AB:6131:DC:C2'	11:AB:6132:DT:H72	2.41	0.50
11:AB:6337:DG:H1'	11:AB:6338:DC:H5'	1.92	0.50
11:AB:6359:DC:C2'	11:AB:6360:DT:H72	2.42	0.50
11:AB:6386:DG:H1'	11:AB:6387:DC:H5'	1.92	0.50
11:AB:6807:DC:C2'	11:AB:6808:DT:H72	2.41	0.50
11:AB:6903:DC:C2'	11:AB:6904:DT:H72	2.42	0.50
11:AB:7052:DC:C2'	11:AB:7053:DT:H72	2.42	0.50
11:AB:7160:DG:H1'	11:AB:7161:DC:H5'	1.92	0.50
11:AB:7225:DC:C2'	11:AB:7226:DT:H72	2.41	0.50
13:AD:14:DG:H1'	13:AD:15:DC:H5'	1.92	0.50
24:BC:31:DC:C2'	24:BC:32:DT:H72	2.41	0.50
32:C8:4:DG:H1'	32:C8:5:DC:H5'	1.92	0.50
32:C8:28:DG:H1'	32:C8:29:DC:H5'	1.92	0.50
37:D1:31:DG:H1'	37:D1:32:DC:H5'	1.92	0.50
43:D8:29:DC:C2'	43:D8:30:DT:H72	2.41	0.50
44:D9:19:DC:C2'	44:D9:20:DT:H72	2.41	0.50
46:DC:21:DC:C2'	46:DC:22:DT:H72	2.42	0.50
54:E8:31:DT:H72	90:HC:16:DC:C2'	2.41	0.50
60:F2:29:DC:C2'	60:F2:30:DT:H72	2.42	0.50
61:F3:4:DC:C2'	61:F3:5:DT:H72	2.41	0.50
68:FC:17:DG:H1'	68:FC:18:DC:H5'	1.92	0.50
72:G3:15:DC:C2'	72:G3:16:DT:H72	2.41	0.50
83:H3:6:DC:C2'	83:H3:7:DT:H72	2.41	0.50
84:H5:20:DG:H1'	84:H5:21:DC:H5'	1.92	0.50
99:I9:25:DG:H1'	99:I9:26:DC:H5'	1.92	0.50
100:IA:11:DC:C2'	100:IA:12:DT:H72	2.41	0.50
102:ID:13:DC:C2'	102:ID:14:DT:H72	2.41	0.50
107:J6:22:DG:H1'	107:J6:23:DC:H5'	1.92	0.50
109:J8:35:DC:C2'	237:X7:1:DT:H72	2.41	0.50
110:J9:7:DC:C2'	110:J9:8:DT:H72	2.41	0.50
115:K2:17:DG:H1'	115:K2:18:DC:H5'	1.92	0.50
126:L2:8:DC:C2'	126:L2:9:DT:H72	2.42	0.50
133:LA:6:DG:H1'	133:LA:7:DC:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
138:M5:30:DC:C2'	138:M5:31:DT:H72	2.42	0.50
147:N3:13:DC:C2'	147:N3:14:DT:H72	2.42	0.50
152:N9:19:DC:C2'	152:N9:20:DT:H72	2.42	0.50
154:NC:32:DC:C2'	154:NC:33:DT:H72	2.41	0.50
156:O2:8:DC:C2'	156:O2:9:DT:H72	2.41	0.50
156:O2:12:DC:C2'	156:O2:13:DT:H72	2.41	0.50
156:O2:29:DG:H1'	156:O2:30:DC:H5'	1.92	0.50
159:O6:16:DC:C2'	159:O6:17:DT:H72	2.42	0.50
180:Q8:10:DG:H1'	180:Q8:11:DC:H5'	1.92	0.50
188:R7:31:DC:C2'	188:R7:32:DT:H72	2.41	0.50
192:RC:7:DG:H1'	192:RC:8:DC:H5'	1.92	0.50
205:T5:18:DC:C2'	205:T5:19:DT:H72	2.41	0.50
212:U2:17:DC:C2'	212:U2:18:DT:H72	2.42	0.50
215:U7:11:DG:H1'	215:U7:12:DC:H5'	1.92	0.50
215:U7:12:DC:C2'	215:U7:13:DT:H72	2.41	0.50
216:U8:21:DC:C2'	216:U8:22:DT:H72	2.41	0.50
227:VA:8:DC:C2'	227:VA:9:DT:H72	2.41	0.50
230:W3:7:DC:C2'	230:W3:8:DT:H72	2.41	0.50
11:AB:601:DC:C2'	11:AB:602:DT:H72	2.41	0.50
11:AB:664:DC:C2'	11:AB:665:DT:H72	2.41	0.50
11:AB:676:DG:H1'	11:AB:677:DC:H5'	1.92	0.50
11:AB:739:DC:C2'	11:AB:740:DT:H72	2.42	0.50
11:AB:743:DC:C2'	11:AB:744:DT:H72	2.42	0.50
11:AB:993:DG:H1'	11:AB:994:DC:H5'	1.92	0.50
11:AB:1240:DC:C2'	11:AB:1241:DT:H72	2.41	0.50
11:AB:1485:DC:C2'	11:AB:1486:DT:H72	2.42	0.50
11:AB:1614:DC:C2'	11:AB:1615:DT:H72	2.41	0.50
11:AB:1786:DC:C2'	11:AB:1787:DT:H72	2.42	0.50
11:AB:1967:DG:H1'	11:AB:1968:DC:H5'	1.92	0.50
11:AB:2018:DG:H1'	11:AB:2019:DC:H5'	1.92	0.50
11:AB:2136:DC:C2'	11:AB:2137:DT:H72	2.41	0.50
11:AB:2147:DC:C2'	11:AB:2148:DT:H72	2.41	0.50
11:AB:2275:DC:C2'	11:AB:2276:DT:H72	2.41	0.50
11:AB:2339:DG:H1'	11:AB:2340:DC:H5'	1.92	0.50
11:AB:2353:DC:C2'	11:AB:2354:DT:H72	2.42	0.50
11:AB:2497:DC:C2'	11:AB:2498:DT:H72	2.41	0.50
11:AB:2528:DT:H72	11:AB:5283:DC:C2'	2.42	0.50
11:AB:2535:DC:C2'	11:AB:2536:DT:H72	2.41	0.50
11:AB:2650:DC:C2'	11:AB:2651:DT:H72	2.41	0.50
11:AB:2664:DC:C2'	11:AB:2665:DT:H72	2.42	0.50
11:AB:2881:DC:C2'	11:AB:2882:DT:H72	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2936:DC:C2'	11:AB:2937:DT:H72	2.41	0.50
11:AB:2984:DC:C2'	11:AB:2985:DT:H72	2.41	0.50
11:AB:3142:DG:H1'	11:AB:3143:DC:H5'	1.92	0.50
11:AB:3301:DC:C2'	11:AB:3302:DT:H72	2.41	0.50
11:AB:3359:DC:C2'	11:AB:3360:DT:H72	2.41	0.50
11:AB:3425:DC:C2'	11:AB:3426:DT:H72	2.42	0.50
11:AB:3910:DC:C2'	11:AB:3911:DT:H72	2.41	0.50
11:AB:3968:DC:C2'	11:AB:3969:DT:H72	2.41	0.50
11:AB:4146:DC:C2'	11:AB:4147:DT:H72	2.41	0.50
11:AB:4384:DC:C2'	11:AB:4385:DT:H72	2.41	0.50
11:AB:4464:DC:C2'	11:AB:4465:DT:H72	2.41	0.50
11:AB:5036:DG:H1'	11:AB:5037:DC:H5'	1.92	0.50
11:AB:5084:DG:H1'	11:AB:5085:DC:H5'	1.92	0.50
11:AB:5302:DC:C2'	11:AB:5303:DT:H72	2.41	0.50
11:AB:5511:DC:C2'	11:AB:5512:DT:H72	2.41	0.50
11:AB:5696:DC:C2'	11:AB:5697:DT:H72	2.41	0.50
11:AB:5773:DC:C2'	11:AB:5774:DT:H72	2.41	0.50
11:AB:5793:DG:H1'	11:AB:5794:DC:H5'	1.92	0.50
11:AB:5936:DC:C2'	11:AB:5937:DT:H72	2.41	0.50
11:AB:6147:DC:C2'	11:AB:6148:DT:H72	2.41	0.50
11:AB:6253:DC:C2'	11:AB:6254:DT:H72	2.42	0.50
11:AB:6756:DC:C2'	11:AB:6757:DT:H72	2.41	0.50
11:AB:6827:DC:C2'	11:AB:6828:DT:H72	2.42	0.50
11:AB:6833:DG:H1'	11:AB:6834:DC:H5'	1.92	0.50
11:AB:7013:DC:C2'	11:AB:7014:DT:H72	2.41	0.50
11:AB:7229:DC:C2'	11:AB:7230:DT:H72	2.41	0.50
22:B9:43:DC:C2'	22:B9:44:DT:H72	2.41	0.50
23:BA:27:DC:C2'	23:BA:28:DT:H72	2.41	0.50
27:C2:7:DC:C2'	27:C2:8:DT:H72	2.41	0.50
32:C8:44:DC:C2'	32:C8:45:DT:H72	2.42	0.50
44:D9:18:DG:H1'	44:D9:19:DC:H5'	1.92	0.50
49:E2:4:DG:H1'	49:E2:5:DC:H5'	1.92	0.50
53:E7:16:DG:H1'	53:E7:17:DC:H5'	1.92	0.50
55:E9:18:DG:H1'	55:E9:19:DC:H5'	1.92	0.50
70:G1:3:DC:C2'	70:G1:4:DT:H72	2.41	0.50
74:G6:30:DC:C2'	213:U3:15:DT:H72	2.41	0.50
82:H2:34:DC:C2'	150:N7:1:DT:H72	2.41	0.50
86:H7:21:DG:H1'	86:H7:22:DC:H5'	1.92	0.50
88:H9:11:DG:H1'	88:H9:12:DC:H5'	1.92	0.50
89:HA:33:DC:C2'	89:HA:34:DT:H72	2.41	0.50
93:I2:43:DC:C2'	93:I2:44:DT:H72	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
102:ID:12:DC:C2'	175:PD:14:DT:H72	2.41	0.50
104:J2:37:DC:C2'	104:J2:38:DT:H72	2.42	0.50
109:J8:47:DC:C2'	109:J8:48:DT:H72	2.41	0.50
112:JC:4:DG:H1'	112:JC:5:DC:H5'	1.92	0.50
114:K1:42:DC:C2'	114:K1:43:DT:H72	2.41	0.50
136:M2:1:DC:C2'	136:M2:2:DT:H72	2.41	0.50
145:MD:13:DG:H1'	145:MD:14:DC:H5'	1.92	0.50
145:MD:24:DG:H1'	145:MD:25:DC:H5'	1.92	0.50
147:N3:5:DG:H1'	147:N3:6:DC:H5'	1.92	0.50
151:N8:7:DC:C2'	151:N8:8:DT:H72	2.42	0.50
151:N8:18:DT:H72	164:OC:16:DC:C2'	2.41	0.50
154:NC:2:DC:C2'	154:NC:3:DT:H72	2.42	0.50
186:R3:20:DC:C2'	186:R3:21:DT:H72	2.41	0.50
205:T5:6:DC:C2'	205:T5:7:DT:H72	2.41	0.50
206:T7:12:DG:H1'	206:T7:13:DC:H5'	1.92	0.50
209:TA:22:DC:C2'	209:TA:23:DT:H72	2.41	0.50
224:V7:6:DC:C2'	224:V7:7:DT:H72	2.41	0.50
227:VA:3:DC:C2'	227:VA:4:DT:H72	2.41	0.50
11:AB:397:DC:C2'	11:AB:398:DT:H72	2.41	0.50
11:AB:418:DC:C2'	11:AB:419:DT:H72	2.41	0.50
11:AB:852:DG:H1'	11:AB:853:DC:H5'	1.92	0.50
11:AB:931:DG:H1'	11:AB:932:DC:H5'	1.92	0.50
11:AB:943:DG:H1'	11:AB:944:DC:H5'	1.92	0.50
11:AB:961:DC:C2'	11:AB:962:DT:H72	2.41	0.50
11:AB:1060:DG:H1'	11:AB:1061:DC:H5'	1.92	0.50
11:AB:1270:DC:C2'	11:AB:1271:DT:H72	2.42	0.50
11:AB:1602:DC:C2'	11:AB:1603:DT:H72	2.41	0.50
11:AB:1849:DC:C2'	11:AB:1850:DT:H72	2.42	0.50
11:AB:2169:DG:H1'	11:AB:2170:DC:H5'	1.92	0.50
11:AB:2224:DC:C2'	11:AB:2225:DT:H72	2.42	0.50
11:AB:3036:DT:H72	11:AB:4991:DC:C2'	2.41	0.50
11:AB:3149:DC:C2'	11:AB:3150:DT:H72	2.41	0.50
11:AB:3260:DC:C2'	11:AB:3261:DT:H72	2.41	0.50
11:AB:3793:DC:C2'	11:AB:3794:DT:H72	2.42	0.50
11:AB:3923:DC:C2'	11:AB:3924:DT:H72	2.42	0.50
11:AB:3950:DC:C2'	11:AB:3951:DT:H72	2.41	0.50
11:AB:4164:DC:C2'	11:AB:4165:DT:H72	2.42	0.50
11:AB:4217:DC:C2'	11:AB:4218:DT:H72	2.42	0.50
11:AB:4494:DC:C2'	11:AB:4495:DT:H72	2.42	0.50
11:AB:4504:DC:C2'	11:AB:4505:DT:H72	2.42	0.50
11:AB:4602:DG:H1'	11:AB:4603:DC:H5'	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4888:DC:C2'	11:AB:4889:DT:H72	2.41	0.50
11:AB:5070:DG:H1'	11:AB:5071:DC:H5'	1.92	0.50
11:AB:5110:DC:C2'	11:AB:5111:DT:H72	2.42	0.50
11:AB:5132:DG:H1'	11:AB:5133:DC:H5'	1.92	0.50
11:AB:5212:DC:C2'	11:AB:5213:DT:H72	2.41	0.50
11:AB:5238:DG:H1'	11:AB:5239:DC:H5'	1.92	0.50
11:AB:5392:DC:C2'	11:AB:5393:DT:H72	2.41	0.50
11:AB:5789:DC:C2'	11:AB:5790:DT:H72	2.41	0.50
11:AB:5884:DG:H1'	11:AB:5885:DC:H5'	1.92	0.50
11:AB:6051:DC:C2'	11:AB:6052:DT:H72	2.42	0.50
11:AB:6194:DC:C2'	11:AB:6195:DT:H72	2.42	0.50
11:AB:6466:DC:C2'	11:AB:6467:DT:H72	2.42	0.50
11:AB:6551:DC:C2'	11:AB:6552:DT:H72	2.41	0.50
11:AB:6999:DG:H1'	11:AB:7000:DC:H5'	1.92	0.50
11:AB:7054:DC:C2'	11:AB:7055:DT:H72	2.42	0.50
11:AB:7235:DG:H1'	11:AB:7236:DC:H5'	1.92	0.50
19:B6:22:DC:C2'	19:B6:23:DT:H72	2.41	0.50
37:D1:37:DC:C2'	37:D1:38:DT:H72	2.42	0.50
54:E8:29:DC:C2'	54:E8:30:DT:H72	2.42	0.50
63:F6:11:DG:H1'	63:F6:12:DC:H5'	1.92	0.50
77:G9:10:DG:H1'	77:G9:11:DC:H5'	1.92	0.50
84:H5:25:DC:C2'	84:H5:26:DT:H72	2.42	0.50
93:I2:26:DC:C2'	93:I2:27:DT:H72	2.42	0.50
109:J8:2:DG:H1'	109:J8:3:DC:H5'	1.92	0.50
115:K2:21:DC:C2'	115:K2:22:DT:H72	2.42	0.50
122:KA:8:DC:C2'	122:KA:9:DT:H72	2.42	0.50
160:O7:1:DG:H1'	160:O7:2:DC:H5'	1.92	0.50
163:OA:14:DC:C2'	163:OA:15:DT:H72	2.42	0.50
164:OC:17:DC:C2'	164:OC:18:DT:H72	2.42	0.50
185:R2:13:DC:C2'	185:R2:14:DT:H72	2.42	0.50
191:RA:9:DG:H1'	191:RA:10:DC:H5'	1.92	0.50
197:S7:8:DC:C2'	197:S7:9:DT:H72	2.42	0.50
204:T3:26:DC:C2'	204:T3:27:DT:H72	2.42	0.50
208:T9:18:DC:C2'	208:T9:19:DT:H72	2.42	0.50
208:T9:21:DC:C2'	208:T9:22:DT:H72	2.42	0.50
223:V5:23:DC:C2'	223:V5:24:DT:H72	2.41	0.50
5:A5:32:DC:C2'	5:A5:33:DT:H72	2.41	0.50
11:AB:118:DC:C2'	11:AB:119:DT:H72	2.41	0.50
11:AB:469:DC:C2'	11:AB:470:DT:H72	2.42	0.50
11:AB:490:DC:C2'	11:AB:491:DT:H72	2.42	0.50
11:AB:841:DC:C2'	11:AB:842:DT:H72	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1420:DC:C2'	11:AB:1421:DT:H72	2.42	0.50
11:AB:1541:DG:H1'	11:AB:1542:DC:H5'	1.92	0.50
11:AB:1743:DC:C2'	11:AB:1744:DT:H72	2.41	0.50
11:AB:1855:DG:H1'	11:AB:1856:DC:H5'	1.92	0.50
11:AB:2178:DG:H1'	11:AB:2179:DC:H5'	1.92	0.50
11:AB:2742:DC:C2'	11:AB:2743:DT:H72	2.42	0.50
11:AB:3294:DC:C2'	11:AB:3295:DT:H72	2.41	0.50
11:AB:3514:DG:H1'	11:AB:3515:DC:H5'	1.92	0.50
11:AB:4107:DG:H1'	11:AB:4108:DC:H5'	1.92	0.50
11:AB:4297:DG:H1'	11:AB:4298:DC:H5'	1.92	0.50
11:AB:4395:DC:C2'	11:AB:4396:DT:H72	2.42	0.50
11:AB:4406:DC:C2'	11:AB:4407:DT:H72	2.42	0.50
11:AB:4590:DG:H1'	11:AB:4591:DC:H5'	1.92	0.50
11:AB:4732:DG:H1'	11:AB:4733:DC:H5'	1.92	0.50
11:AB:4810:DC:C2'	11:AB:4811:DT:H72	2.42	0.50
11:AB:4943:DG:H1'	11:AB:4944:DC:H5'	1.92	0.50
11:AB:5010:DG:H1'	11:AB:5011:DC:H5'	1.92	0.50
11:AB:5062:DG:H1'	11:AB:5063:DC:H5'	1.92	0.50
11:AB:5478:DC:C2'	11:AB:5479:DT:H72	2.42	0.50
11:AB:5641:DG:H1'	11:AB:5642:DC:H5'	1.92	0.50
11:AB:5663:DC:C2'	11:AB:5664:DT:H72	2.42	0.50
11:AB:5750:DC:C2'	11:AB:5751:DT:H72	2.42	0.50
11:AB:6090:DG:H1'	11:AB:6091:DC:H5'	1.92	0.50
11:AB:6118:DC:C2'	11:AB:6119:DT:H72	2.42	0.50
11:AB:6168:DG:H1'	11:AB:6169:DC:H5'	1.92	0.50
11:AB:6744:DC:C2'	11:AB:6745:DT:H72	2.41	0.50
11:AB:7074:DC:C2'	11:AB:7075:DT:H72	2.41	0.50
11:AB:7131:DC:C2'	11:AB:7132:DT:H72	2.41	0.50
11:AB:7214:DG:H1'	11:AB:7215:DC:H5'	1.92	0.50
11:AB:7241:DG:H1'	11:AB:7242:DC:H5'	1.92	0.50
14:B1:33:DG:H1'	14:B1:34:DC:H5'	1.92	0.50
40:D5:24:DG:H1'	40:D5:25:DC:H5'	1.92	0.50
46:DC:13:DC:C2'	57:EC:1:DT:H72	2.42	0.50
48:E1:32:DC:C2'	48:E1:33:DT:H72	2.41	0.50
72:G3:14:DG:H1'	72:G3:15:DC:H5'	1.92	0.50
93:I2:45:DG:H1'	93:I2:46:DC:H5'	1.92	0.50
99:I9:17:DG:H1'	99:I9:18:DC:H5'	1.92	0.50
106:J5:7:DG:H1'	106:J5:8:DC:H5'	1.92	0.50
122:KA:36:DT:H72	226:V9:18:DC:C2'	2.42	0.50
127:L3:4:DG:H1'	127:L3:5:DC:H5'	1.92	0.50
127:L3:5:DC:C2'	127:L3:6:DT:H72	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
143:MA:9:DG:H1'	143:MA:10:DC:H5'	1.92	0.50
156:O2:33:DC:C2'	156:O2:34:DT:H72	2.42	0.50
164:OC:11:DG:H1'	164:OC:12:DC:H5'	1.92	0.50
172:P9:20:DG:H1'	172:P9:21:DC:H5'	1.92	0.50
174:PC:12:DC:C2'	174:PC:13:DT:H72	2.42	0.50
181:Q9:16:DG:H1'	181:Q9:17:DC:H5'	1.92	0.50
186:R3:14:DT:H72	204:T3:7:DC:C2'	2.41	0.50
10:AA:11:DG:H1'	10:AA:12:DC:H5'	1.92	0.50
11:AB:115:DC:C2'	11:AB:116:DT:H72	2.41	0.50
11:AB:128:DC:C2'	11:AB:129:DT:H72	2.41	0.50
11:AB:211:DC:C2'	11:AB:212:DT:H72	2.41	0.50
11:AB:442:DG:H1'	11:AB:443:DC:H5'	1.92	0.50
11:AB:862:DG:H1'	11:AB:863:DC:H5'	1.92	0.50
11:AB:1655:DC:C2'	11:AB:1656:DT:H72	2.42	0.50
11:AB:1867:DC:C2'	11:AB:1868:DT:H72	2.42	0.50
11:AB:1951:DC:C2'	11:AB:1952:DT:H72	2.41	0.50
11:AB:2106:DG:H1'	11:AB:2107:DC:H5'	1.92	0.50
11:AB:2398:DC:C2'	11:AB:2399:DT:H72	2.41	0.50
11:AB:2521:DC:C2'	11:AB:2522:DT:H72	2.41	0.50
11:AB:3191:DC:C2'	11:AB:3192:DT:H72	2.41	0.50
11:AB:3568:DG:H1'	11:AB:3569:DC:H5'	1.92	0.50
11:AB:4013:DC:C2'	11:AB:4014:DT:H72	2.41	0.50
11:AB:4205:DC:C2'	11:AB:4206:DT:H72	2.42	0.50
11:AB:5001:DG:H1'	11:AB:5002:DC:H5'	1.92	0.50
11:AB:5243:DC:C2'	11:AB:5244:DT:H72	2.41	0.50
11:AB:5831:DC:C2'	11:AB:5832:DT:H72	2.41	0.50
11:AB:5853:DC:C2'	11:AB:5854:DT:H72	2.42	0.50
11:AB:6077:DC:C2'	11:AB:6078:DT:H72	2.41	0.50
11:AB:6202:DC:C2'	11:AB:6203:DT:H72	2.42	0.50
11:AB:6224:DC:C2'	11:AB:6225:DT:H72	2.42	0.50
11:AB:6413:DG:H1'	11:AB:6414:DC:H5'	1.92	0.50
11:AB:6978:DC:C2'	11:AB:6979:DT:H72	2.41	0.50
11:AB:7118:DC:C2'	11:AB:7119:DT:H72	2.41	0.50
17:B4:20:DC:C2'	17:B4:21:DT:H72	2.41	0.50
18:B5:17:DC:C2'	18:B5:18:DT:H72	2.41	0.50
41:D6:3:DG:H1'	41:D6:4:DC:H5'	1.92	0.50
44:D9:10:DC:C2'	44:D9:11:DT:H72	2.41	0.50
46:DC:20:DG:H1'	46:DC:21:DC:H5'	1.92	0.50
53:E7:11:DG:H1'	53:E7:12:DC:H5'	1.92	0.50
56:EA:20:DG:H1'	56:EA:21:DC:H5'	1.92	0.50
77:G9:6:DT:H72	156:O2:56:DC:C2'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
84:H5:29:DC:C2'	84:H5:30:DT:H72	2.41	0.50
98:I8:26:DC:C2'	98:I8:27:DT:H72	2.41	0.50
105:J3:16:DC:C2'	105:J3:17:DT:H72	2.41	0.50
122:KA:46:DC:C2'	122:KA:47:DT:H72	2.41	0.50
127:L3:17:DC:C2'	127:L3:18:DT:H72	2.41	0.50
152:N9:26:DG:H1'	152:N9:27:DC:H5'	1.92	0.50
154:NC:32:DC:H5'	216:U8:24:DG:H1'	1.92	0.50
162:O9:18:DC:C2'	162:O9:19:DT:H72	2.42	0.50
164:OC:14:DG:H1'	164:OC:15:DC:H5'	1.92	0.50
172:P9:26:DC:C2'	172:P9:27:DT:H72	2.41	0.50
187:R5:39:DC:C2'	187:R5:40:DT:H72	2.42	0.50
195:S3:11:DC:C2'	195:S3:12:DT:H72	2.41	0.50
197:S7:21:DC:C2'	197:S7:22:DT:H72	2.42	0.50
217:U9:21:DG:H1'	217:U9:22:DC:H5'	1.92	0.50
223:V5:37:DG:H1'	223:V5:38:DC:H5'	1.92	0.50
11:AB:427:DG:H1'	11:AB:428:DC:H5'	1.92	0.49
11:AB:559:DC:C2'	11:AB:560:DT:H72	2.42	0.49
11:AB:576:DC:C2'	11:AB:577:DT:H72	2.42	0.49
11:AB:764:DC:C2'	11:AB:765:DT:H72	2.42	0.49
11:AB:769:DC:C2'	11:AB:770:DT:H72	2.41	0.49
11:AB:1041:DC:C2'	11:AB:1042:DT:H72	2.41	0.49
11:AB:1128:DC:C2'	11:AB:1129:DT:H72	2.41	0.49
11:AB:1396:DC:C2'	11:AB:1397:DT:H72	2.41	0.49
11:AB:1536:DC:C2'	11:AB:1537:DT:H72	2.41	0.49
11:AB:1559:DG:H1'	11:AB:1560:DC:H5'	1.92	0.49
11:AB:1586:DC:C2'	11:AB:1587:DT:H72	2.41	0.49
11:AB:1707:DC:C2'	11:AB:1708:DT:H72	2.41	0.49
11:AB:1771:DC:C2'	11:AB:1772:DT:H72	2.41	0.49
11:AB:1798:DG:H1'	11:AB:1799:DC:H5'	1.92	0.49
11:AB:1972:DC:C2'	11:AB:1973:DT:H72	2.41	0.49
11:AB:2435:DG:H1'	11:AB:2436:DC:H5'	1.92	0.49
11:AB:2846:DC:C2'	11:AB:2847:DT:H72	2.41	0.49
11:AB:3830:DC:C2'	11:AB:3831:DT:H72	2.41	0.49
11:AB:4083:DG:H1'	11:AB:4084:DC:H5'	1.92	0.49
11:AB:4189:DC:C2'	11:AB:4190:DT:H72	2.41	0.49
11:AB:4373:DC:C2'	11:AB:4374:DT:H72	2.41	0.49
11:AB:4500:DC:C2'	11:AB:4501:DT:H72	2.42	0.49
11:AB:4785:DC:C2'	11:AB:4786:DT:H72	2.42	0.49
11:AB:4928:DG:H1'	11:AB:4929:DC:H5'	1.92	0.49
11:AB:4951:DG:H1'	11:AB:4952:DC:H5'	1.93	0.49
11:AB:5019:DG:H1'	11:AB:5020:DC:H5'	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5469:DC:C2'	11:AB:5470:DT:H72	2.41	0.49
11:AB:5589:DC:C2'	11:AB:5590:DT:H72	2.41	0.49
11:AB:5631:DC:C2'	11:AB:5632:DT:H72	2.41	0.49
11:AB:5798:DG:H1'	11:AB:5799:DC:H5'	1.92	0.49
11:AB:6130:DG:H1'	11:AB:6131:DC:H5'	1.92	0.49
11:AB:6155:DC:C2'	11:AB:6156:DT:H72	2.41	0.49
11:AB:6190:DC:C2'	11:AB:6191:DT:H72	2.41	0.49
11:AB:6219:DC:C2'	11:AB:6220:DT:H72	2.41	0.49
11:AB:6231:DC:C2'	11:AB:6232:DT:H72	2.41	0.49
11:AB:6350:DC:C2'	11:AB:6351:DT:H72	2.41	0.49
11:AB:6688:DC:C2'	11:AB:6689:DT:H72	2.42	0.49
11:AB:6933:DG:H1'	11:AB:6934:DC:H5'	1.92	0.49
11:AB:7190:DG:H1'	11:AB:7191:DC:H5'	1.92	0.49
13:AD:34:DC:C2'	13:AD:35:DT:H72	2.42	0.49
24:BC:41:DC:C2'	57:EC:8:DT:H72	2.41	0.49
31:C7:30:DG:H1'	31:C7:31:DC:H5'	1.92	0.49
43:D8:25:DG:H1'	43:D8:26:DC:H5'	1.92	0.49
54:E8:6:DC:C2'	54:E8:7:DT:H72	2.41	0.49
58:ED:17:DC:C2'	58:ED:18:DT:H72	2.41	0.49
67:FA:19:DC:C2'	67:FA:20:DT:H72	2.41	0.49
82:H2:6:DC:C2'	82:H2:7:DT:H72	2.42	0.49
82:H2:25:DC:C2'	82:H2:26:DT:H72	2.41	0.49
93:I2:25:DG:H1'	93:I2:26:DC:H5'	1.92	0.49
97:I7:28:DC:C2'	97:I7:29:DT:H72	2.41	0.49
114:K1:8:DC:C2'	114:K1:9:DT:H72	2.41	0.49
115:K2:9:DG:H1'	115:K2:10:DC:H5'	1.92	0.49
121:K9:21:DC:C2'	121:K9:22:DT:H72	2.41	0.49
122:KA:5:DG:H1'	122:KA:6:DC:H5'	1.92	0.49
126:L2:45:DG:H1'	126:L2:46:DC:H5'	1.92	0.49
143:MA:45:DG:H1'	143:MA:46:DC:H5'	1.93	0.49
169:P6:10:DG:H1'	169:P6:11:DC:H5'	1.92	0.49
172:P9:17:DC:C2'	172:P9:18:DT:H72	2.41	0.49
178:Q5:22:DC:C2'	178:Q5:23:DT:H72	2.41	0.49
184:QD:15:DC:H5'	238:X9:10:DG:H1'	1.92	0.49
194:S2:29:DG:H1'	194:S2:30:DC:H5'	1.92	0.49
211:TD:39:DG:H1'	211:TD:40:DC:H5'	1.92	0.49
231:W5:14:DC:C2'	231:W5:15:DT:H72	2.41	0.49
11:AB:91:DC:C2'	11:AB:92:DT:H72	2.41	0.49
11:AB:782:DC:C2'	11:AB:783:DT:H72	2.42	0.49
11:AB:859:DG:H1'	11:AB:860:DC:H5'	1.92	0.49
11:AB:889:DC:C2'	11:AB:890:DT:H72	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:902:DC:C2'	11:AB:903:DT:H72	2.42	0.49
11:AB:928:DG:H1'	11:AB:929:DC:H5'	1.92	0.49
11:AB:1093:DC:C2'	11:AB:1094:DT:H72	2.41	0.49
11:AB:1436:DC:C2'	11:AB:1437:DT:H72	2.41	0.49
11:AB:1495:DC:C2'	11:AB:1496:DT:H72	2.41	0.49
11:AB:1613:DG:H1'	11:AB:1614:DC:H5'	1.92	0.49
11:AB:1819:DG:H1'	11:AB:1820:DC:H5'	1.92	0.49
11:AB:1893:DC:C2'	11:AB:1894:DT:H72	2.41	0.49
11:AB:1994:DC:C2'	11:AB:1995:DT:H72	2.41	0.49
11:AB:2015:DC:C2'	11:AB:2016:DT:H72	2.42	0.49
11:AB:2251:DC:C2'	11:AB:2252:DT:H72	2.41	0.49
11:AB:2253:DC:C2'	11:AB:2254:DT:H72	2.42	0.49
11:AB:2392:DC:C2'	11:AB:2393:DT:H72	2.41	0.49
11:AB:2675:DC:C2'	11:AB:2676:DT:H72	2.41	0.49
11:AB:3344:DC:C2'	11:AB:3345:DT:H72	2.41	0.49
11:AB:3469:DG:H1'	11:AB:3470:DC:H5'	1.92	0.49
11:AB:3919:DC:C2'	11:AB:3920:DT:H72	2.42	0.49
11:AB:4076:DG:H1'	11:AB:4077:DC:H5'	1.92	0.49
11:AB:4168:DC:C2'	11:AB:4169:DT:H72	2.42	0.49
11:AB:4569:DC:C2'	11:AB:4570:DT:H72	2.42	0.49
11:AB:4600:DG:H1'	11:AB:4601:DC:H5'	1.92	0.49
11:AB:4920:DG:H1'	11:AB:4921:DC:H5'	1.92	0.49
11:AB:4998:DG:H1'	11:AB:4999:DC:H5'	1.92	0.49
11:AB:5759:DC:C2'	11:AB:5760:DT:H72	2.42	0.49
11:AB:5825:DC:C2'	11:AB:5826:DT:H72	2.42	0.49
11:AB:5828:DC:C2'	11:AB:5829:DT:H72	2.41	0.49
11:AB:6383:DC:C2'	11:AB:6384:DT:H72	2.42	0.49
11:AB:6410:DC:C2'	11:AB:6411:DT:H72	2.41	0.49
11:AB:6486:DC:C2'	11:AB:6487:DT:H72	2.41	0.49
11:AB:6703:DC:C2'	11:AB:6704:DT:H72	2.42	0.49
11:AB:6706:DC:C2'	11:AB:6707:DT:H72	2.42	0.49
11:AB:6909:DC:C2'	11:AB:6910:DT:H72	2.42	0.49
11:AB:7139:DC:C2'	11:AB:7140:DT:H72	2.42	0.49
11:AB:7147:DC:C2'	11:AB:7148:DT:H72	2.41	0.49
11:AB:7219:DC:C2'	11:AB:7220:DT:H72	2.41	0.49
21:B8:3:DC:C2'	21:B8:4:DT:H72	2.41	0.49
42:D7:14:DG:H1'	97:I7:21:DC:H5'	1.92	0.49
46:DC:16:DG:H1'	46:DC:17:DC:H5'	1.92	0.49
71:G2:6:DC:C2'	71:G2:7:DT:H72	2.42	0.49
75:G7:6:DC:C2'	75:G7:7:DT:H72	2.41	0.49
83:H3:16:DC:C2'	83:H3:17:DT:H72	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
88:H9:14:DG:H1'	88:H9:15:DC:H5'	1.92	0.49
94:I3:20:DG:H1'	94:I3:21:DC:H5'	1.92	0.49
106:J5:15:DT:H72	196:S5:21:DC:C2'	2.41	0.49
122:KA:42:DC:C2'	122:KA:43:DT:H72	2.41	0.49
129:L6:23:DG:H1'	129:L6:24:DC:H5'	1.92	0.49
143:MA:43:DG:H1'	143:MA:44:DC:H5'	1.92	0.49
149:N6:3:DC:C2'	149:N6:4:DT:H72	2.41	0.49
166:P2:11:DG:H1'	166:P2:12:DC:H5'	1.92	0.49
168:P5:3:DG:H1'	168:P5:4:DC:H5'	1.92	0.49
174:PC:8:DC:C2'	174:PC:9:DT:H72	2.41	0.49
175:PD:17:DG:H1'	175:PD:18:DC:H5'	1.92	0.49
220:UD:10:DC:C2'	220:UD:11:DT:H72	2.41	0.49
227:VA:7:DG:H1'	227:VA:8:DC:H5'	1.92	0.49
11:AB:308:DC:C2'	11:AB:309:DT:H72	2.42	0.49
11:AB:322:DC:C2'	11:AB:323:DT:H72	2.41	0.49
11:AB:343:DC:C2'	11:AB:344:DT:H72	2.41	0.49
11:AB:738:DG:H1'	11:AB:739:DC:H5'	1.92	0.49
11:AB:1054:DC:C2'	11:AB:1055:DT:H72	2.42	0.49
11:AB:1065:DC:C2'	11:AB:1066:DT:H72	2.41	0.49
11:AB:1150:DC:C2'	11:AB:1151:DT:H72	2.41	0.49
11:AB:1478:DC:C2'	11:AB:1479:DT:H72	2.42	0.49
11:AB:1579:DC:C2'	11:AB:1580:DT:H72	2.41	0.49
11:AB:1630:DC:C2'	11:AB:1631:DT:H72	2.42	0.49
11:AB:1670:DC:C2'	11:AB:1671:DT:H72	2.42	0.49
11:AB:1872:DC:C2'	11:AB:1873:DT:H72	2.42	0.49
11:AB:1884:DC:C2'	11:AB:1885:DT:H72	2.42	0.49
11:AB:1924:DC:C2'	11:AB:1925:DT:H72	2.42	0.49
11:AB:2059:DC:C2'	11:AB:2060:DT:H72	2.42	0.49
11:AB:2230:DC:C2'	11:AB:2231:DT:H72	2.42	0.49
11:AB:2264:DC:C2'	11:AB:2265:DT:H72	2.41	0.49
11:AB:2317:DC:C2'	11:AB:2318:DT:H72	2.42	0.49
11:AB:2443:DT:H72	11:AB:5366:DC:C2'	2.41	0.49
11:AB:2647:DC:C2'	11:AB:2648:DT:H72	2.41	0.49
11:AB:3498:DC:C2'	11:AB:3499:DT:H72	2.41	0.49
11:AB:3555:DG:H1'	11:AB:3556:DC:H5'	1.92	0.49
11:AB:4039:DC:C2'	11:AB:4040:DT:H72	2.41	0.49
11:AB:4203:DC:C2'	11:AB:4204:DT:H72	2.41	0.49
11:AB:4216:DG:H1'	11:AB:4217:DC:H5'	1.92	0.49
11:AB:4303:DG:H1'	11:AB:4304:DC:H5'	1.92	0.49
11:AB:4401:DC:C2'	11:AB:4402:DT:H72	2.42	0.49
11:AB:4842:DG:H1'	11:AB:4843:DC:H5'	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4899:DC:C2'	11:AB:4900:DT:H72	2.42	0.49
11:AB:4948:DC:C2'	11:AB:4949:DT:H72	2.41	0.49
11:AB:5695:DG:H1'	11:AB:5696:DC:H5'	1.92	0.49
11:AB:6289:DC:C2'	11:AB:6290:DT:H72	2.42	0.49
11:AB:6470:DC:C2'	11:AB:6471:DT:H72	2.42	0.49
11:AB:6474:DG:H1'	11:AB:6475:DC:H5'	1.92	0.49
11:AB:6538:DC:C2'	11:AB:6539:DT:H72	2.42	0.49
18:B5:3:DG:H1'	18:B5:4:DC:H5'	1.92	0.49
37:D1:26:DC:C2'	37:D1:27:DT:H72	2.42	0.49
41:D6:36:DC:C2'	41:D6:37:DT:H72	2.42	0.49
49:E2:24:DC:C2'	49:E2:25:DT:H72	2.41	0.49
62:F5:43:DC:C2'	62:F5:44:DT:H72	2.42	0.49
69:FD:46:DG:H1'	69:FD:47:DC:H5'	1.92	0.49
83:H3:8:DT:H72	181:Q9:39:DC:C2'	2.42	0.49
97:I7:31:DG:H1'	97:I7:32:DC:H5'	1.92	0.49
115:K2:20:DG:H1'	115:K2:21:DC:H5'	1.92	0.49
119:K7:40:DC:C2'	119:K7:41:DT:H72	2.41	0.49
134:LC:16:DG:H1'	134:LC:17:DC:H5'	1.92	0.49
148:N5:24:DC:C2'	148:N5:25:DT:H72	2.42	0.49
192:RC:21:DC:C2'	192:RC:22:DT:H72	2.41	0.49
206:T7:3:DC:C2'	206:T7:4:DT:H72	2.42	0.49
223:V5:11:DC:C2'	223:V5:12:DT:H72	2.42	0.49
11:AB:280:DC:C2'	11:AB:281:DT:H72	2.42	0.49
11:AB:958:DG:H1'	11:AB:959:DC:H5'	1.92	0.49
11:AB:1026:DG:H1'	11:AB:1027:DC:H5'	1.92	0.49
11:AB:1277:DC:C2'	11:AB:1278:DT:H72	2.42	0.49
11:AB:1848:DG:H1'	11:AB:1849:DC:H5'	1.92	0.49
11:AB:4667:DG:H1'	11:AB:4668:DC:H5'	1.92	0.49
11:AB:4829:DC:C2'	11:AB:4830:DT:H72	2.41	0.49
11:AB:6276:DC:C2'	11:AB:6277:DT:H72	2.42	0.49
11:AB:6618:DC:C2'	11:AB:6619:DT:H72	2.42	0.49
11:AB:6734:DG:H1'	11:AB:6735:DC:H5'	1.92	0.49
11:AB:7187:DG:H1'	11:AB:7188:DC:H5'	1.92	0.49
22:B9:4:DG:H1'	22:B9:5:DC:H5'	1.92	0.49
30:C6:19:DC:C2'	30:C6:20:DT:H72	2.42	0.49
31:C7:17:DC:C2'	31:C7:18:DT:H72	2.42	0.49
34:CA:15:DC:C2'	34:CA:16:DT:H72	2.42	0.49
50:E3:4:DG:H1'	50:E3:5:DC:H5'	1.92	0.49
70:G1:6:DG:H1'	70:G1:7:DC:H5'	1.92	0.49
103:J1:24:DG:H2''	103:J1:25:DC:O5'	2.13	0.49
124:KD:6:DG:H1'	124:KD:7:DC:H5'	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
139:M6:5:DC:C2'	139:M6:6:DT:H72	2.42	0.49
142:M9:5:DG:H1'	142:M9:6:DC:H5'	1.92	0.49
145:MD:25:DC:C2'	145:MD:26:DT:H72	2.42	0.49
147:N3:25:DG:H1'	147:N3:26:DC:H5'	1.92	0.49
169:P6:20:DC:C2'	169:P6:21:DT:H72	2.42	0.49
170:P7:7:DC:C2'	170:P7:8:DT:H72	2.41	0.49
200:SA:26:DG:H1'	200:SA:27:DC:H5'	1.92	0.49
227:VA:22:DG:H1'	227:VA:23:DC:H5'	1.92	0.49
236:X5:7:DC:C2'	236:X5:8:DT:H72	2.42	0.49
6:A6:14:DC:C2'	6:A6:15:DT:H72	2.42	0.49
11:AB:1600:DC:C2'	11:AB:1601:DT:H72	2.42	0.49
11:AB:2345:DG:H1'	11:AB:2346:DC:H5'	1.92	0.49
11:AB:3445:DG:H1'	11:AB:3446:DC:H5'	1.92	0.49
11:AB:4241:DG:H1'	11:AB:4242:DC:H5'	1.92	0.49
11:AB:5050:DG:H2''	11:AB:5051:DC:O5'	2.13	0.49
11:AB:6964:DG:H1'	11:AB:6965:DC:H5'	1.92	0.49
65:F8:11:DG:H1'	65:F8:12:DC:H5'	1.92	0.49
117:K5:40:DG:H2''	117:K5:41:DC:O5'	2.13	0.49
151:N8:20:DG:H1'	151:N8:21:DC:H5'	1.92	0.49
152:N9:18:DG:H2''	152:N9:19:DC:O5'	2.13	0.49
214:U5:8:DG:H2''	214:U5:9:DC:O5'	2.13	0.49
225:V8:20:DG:H2''	225:V8:21:DC:O5'	2.13	0.49
232:W7:25:DC:C2'	232:W7:26:DT:H72	2.42	0.49
1:A1:15:DG:H2''	1:A1:16:DC:O5'	2.13	0.49
11:AB:538:DC:C2'	11:AB:539:DT:H72	2.41	0.49
11:AB:817:DG:H1'	11:AB:818:DC:H5'	1.92	0.49
11:AB:1282:DG:H2''	11:AB:1283:DC:O5'	2.13	0.49
11:AB:1406:DG:H1'	11:AB:1407:DC:H5'	1.92	0.49
11:AB:2184:DG:H1'	11:AB:2185:DC:H5'	1.92	0.49
11:AB:2883:DG:H2''	11:AB:2884:DC:O5'	2.13	0.49
11:AB:3424:DG:H2''	11:AB:3425:DC:O5'	2.13	0.49
11:AB:3584:DG:H2''	11:AB:3585:DC:O5'	2.13	0.49
11:AB:3622:DC:C2'	11:AB:3623:DT:H72	2.41	0.49
11:AB:4490:DC:C2'	11:AB:4491:DT:H72	2.42	0.49
11:AB:5253:DG:H2''	11:AB:5254:DC:O5'	2.13	0.49
11:AB:5277:DG:H2''	11:AB:5278:DC:O5'	2.13	0.49
11:AB:5596:DC:C2'	11:AB:5597:DT:H72	2.41	0.49
11:AB:7208:DG:H1'	11:AB:7209:DC:H5'	1.92	0.49
30:C6:25:DG:H1'	30:C6:26:DC:H5'	1.92	0.49
31:C7:6:DC:C2'	31:C7:7:DT:H72	2.41	0.49
37:D1:36:DG:H2''	37:D1:37:DC:O5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:F2:5:DG:H2''	60:F2:6:DC:O5'	2.13	0.49
67:FA:29:DC:C2'	67:FA:30:DT:H72	2.41	0.49
75:G7:26:DG:H2''	75:G7:27:DC:O5'	2.13	0.49
123:KC:19:DG:H2''	123:KC:20:DC:O5'	2.13	0.49
200:SA:12:DG:H2''	200:SA:13:DC:O5'	2.13	0.49
209:TA:33:DG:H2''	209:TA:34:DC:O5'	2.13	0.49
10:AA:17:DG:H2''	10:AA:18:DC:O5'	2.13	0.49
11:AB:62:DC:C2'	11:AB:63:DT:H72	2.41	0.49
11:AB:415:DG:H1'	11:AB:416:DC:H5'	1.92	0.49
11:AB:517:DC:C2'	11:AB:518:DT:H72	2.41	0.49
11:AB:679:DC:C2'	11:AB:680:DT:H72	2.41	0.49
11:AB:709:DC:C2'	11:AB:710:DT:H72	2.41	0.49
11:AB:1285:DC:C2'	11:AB:1286:DT:H72	2.41	0.49
11:AB:1662:DC:C2'	11:AB:1663:DT:H72	2.42	0.49
11:AB:1770:DG:H2''	11:AB:1771:DC:O5'	2.13	0.49
11:AB:1922:DG:H2''	11:AB:1923:DC:O5'	2.13	0.49
11:AB:2611:DC:C2'	11:AB:2612:DT:H72	2.41	0.49
11:AB:2885:DG:H2''	11:AB:2886:DC:O5'	2.13	0.49
11:AB:3113:DC:C2'	11:AB:3114:DT:H72	2.41	0.49
11:AB:4400:DG:H2''	11:AB:4401:DC:O5'	2.13	0.49
11:AB:4493:DG:H2''	11:AB:4494:DC:O5'	2.13	0.49
11:AB:4594:DC:C2'	11:AB:4595:DT:H72	2.41	0.49
11:AB:4654:DG:H2''	11:AB:4655:DC:O5'	2.13	0.49
11:AB:4959:DG:H2''	11:AB:4960:DC:O5'	2.13	0.49
11:AB:5930:DC:C2'	11:AB:5931:DT:H72	2.41	0.49
11:AB:6030:DG:H2''	11:AB:6031:DC:O5'	2.13	0.49
20:B7:9:DG:H2''	20:B7:10:DC:O5'	2.13	0.49
92:I1:24:DC:C2'	92:I1:25:DT:H72	2.41	0.49
180:Q8:5:DG:H2''	180:Q8:6:DC:O5'	2.13	0.49
220:UD:19:DG:H2''	220:UD:20:DC:O5'	2.13	0.49
2:A2:11:DG:H2''	2:A2:12:DC:O5'	2.13	0.49
11:AB:433:DC:C2'	11:AB:434:DT:H72	2.41	0.49
11:AB:463:DC:C2'	11:AB:464:DT:H72	2.41	0.49
11:AB:505:DC:C2'	11:AB:506:DT:H72	2.42	0.49
11:AB:574:DC:C2'	11:AB:575:DT:H72	2.41	0.49
11:AB:661:DG:H1'	11:AB:662:DC:H5'	1.93	0.49
11:AB:1081:DC:C2'	11:AB:1082:DT:H72	2.41	0.49
11:AB:1703:DG:H2''	11:AB:1704:DC:O5'	2.13	0.49
11:AB:2668:DG:H2''	11:AB:2669:DC:O5'	2.13	0.49
11:AB:2823:DC:C2'	11:AB:2824:DT:H72	2.41	0.49
11:AB:3461:DG:H2''	11:AB:3462:DC:O5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3917:DG:H2''	11:AB:3918:DC:O5'	2.13	0.49
11:AB:3964:DC:C2'	11:AB:3965:DT:H72	2.41	0.49
11:AB:4071:DG:H2''	11:AB:4072:DC:O5'	2.13	0.49
11:AB:4119:DC:C2'	11:AB:4120:DT:H72	2.41	0.49
11:AB:4391:DC:C2'	11:AB:4392:DT:H72	2.42	0.49
11:AB:4980:DG:H2''	11:AB:4981:DC:O5'	2.13	0.49
11:AB:5783:DC:C2'	11:AB:5784:DT:H72	2.41	0.49
11:AB:6075:DC:C2'	11:AB:6076:DT:H72	2.41	0.49
11:AB:6527:DC:C2'	11:AB:6528:DT:H72	2.42	0.49
11:AB:6919:DC:C2'	11:AB:6920:DT:H72	2.41	0.49
11:AB:6988:DC:C2'	11:AB:6989:DT:H72	2.42	0.49
11:AB:6997:DG:H2''	11:AB:6998:DC:O5'	2.13	0.49
11:AB:7149:DC:C2'	11:AB:7150:DT:H72	2.42	0.49
27:C2:12:DC:C2'	27:C2:13:DT:H72	2.41	0.49
27:C2:21:DC:C2'	27:C2:22:DT:H72	2.41	0.49
47:DD:41:DG:H2''	47:DD:42:DC:O5'	2.13	0.49
64:F7:12:DC:C2'	64:F7:13:DT:H72	2.41	0.49
69:FD:32:DC:C2'	69:FD:33:DT:H72	2.41	0.49
74:G6:29:DG:H2''	74:G6:30:DC:O5'	2.13	0.49
74:G6:36:DC:C2'	74:G6:37:DT:H72	2.41	0.49
82:H2:21:DG:H2''	82:H2:22:DC:O5'	2.13	0.49
111:JA:15:DC:C2'	111:JA:16:DT:H72	2.42	0.49
125:L1:55:DG:H2''	125:L1:56:DC:O5'	2.13	0.49
136:M2:6:DG:H2''	136:M2:7:DC:O5'	2.13	0.49
144:MC:6:DG:H2''	144:MC:7:DC:O5'	2.13	0.49
161:O8:53:DG:H2''	161:O8:54:DC:O5'	2.13	0.49
186:R3:13:DG:H2''	204:T3:8:DC:O5'	2.13	0.49
206:T7:2:DG:H2''	206:T7:3:DC:O5'	2.13	0.49
11:AB:391:DC:C2'	11:AB:392:DT:H72	2.41	0.49
11:AB:635:DG:H2''	11:AB:636:DC:O5'	2.13	0.49
11:AB:781:DG:H2''	11:AB:782:DC:O5'	2.13	0.49
11:AB:901:DG:H2''	11:AB:902:DC:O5'	2.13	0.49
11:AB:934:DC:C2'	11:AB:935:DT:H72	2.41	0.49
11:AB:1053:DG:H2''	11:AB:1054:DC:O5'	2.13	0.49
11:AB:1072:DC:C2'	11:AB:1073:DT:H72	2.42	0.49
11:AB:1502:DC:C2'	11:AB:1503:DT:H72	2.41	0.49
11:AB:1811:DG:H2''	11:AB:1812:DC:O5'	2.13	0.49
11:AB:1863:DG:H2''	11:AB:1864:DC:O5'	2.13	0.49
11:AB:2851:DG:H2''	11:AB:2852:DC:O5'	2.13	0.49
11:AB:2879:DC:C2'	11:AB:2880:DT:H72	2.42	0.49
11:AB:3254:DC:C2'	11:AB:3255:DT:H72	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3316:DG:H2''	11:AB:3317:DC:O5'	2.13	0.49
11:AB:3449:DG:H2''	11:AB:3450:DC:O5'	2.13	0.49
11:AB:3542:DG:H2''	11:AB:3543:DC:O5'	2.13	0.49
11:AB:3729:DG:H2''	11:AB:3730:DC:O5'	2.13	0.49
11:AB:3986:DG:H2''	11:AB:3987:DC:O5'	2.13	0.49
11:AB:3998:DG:H2''	11:AB:3999:DC:O5'	2.13	0.49
11:AB:5238:DG:H2''	11:AB:5239:DC:O5'	2.13	0.49
11:AB:5782:DG:H2''	11:AB:5783:DC:O5'	2.13	0.49
11:AB:5848:DG:H2''	11:AB:5849:DC:O5'	2.13	0.49
11:AB:6057:DG:H2''	11:AB:6058:DC:O5'	2.13	0.49
11:AB:6189:DG:H2''	11:AB:6190:DC:O5'	2.13	0.49
11:AB:6831:DG:H2''	11:AB:6832:DC:O5'	2.13	0.49
11:AB:6907:DG:H2''	11:AB:6908:DC:O5'	2.13	0.49
32:C8:25:DG:H2''	32:C8:26:DC:O5'	2.13	0.49
74:G6:13:DC:C2'	74:G6:14:DT:H72	2.42	0.49
90:HC:15:DG:H2''	90:HC:16:DC:O5'	2.13	0.49
98:I8:38:DC:O5'	123:KC:16:DG:H2''	2.13	0.49
101:IC:19:DG:H2''	101:IC:20:DC:O5'	2.13	0.49
104:J2:27:DC:C2'	104:J2:28:DT:H72	2.42	0.49
146:N2:22:DG:H2''	146:N2:23:DC:O5'	2.13	0.49
195:S3:7:DG:H2''	195:S3:8:DC:O5'	2.13	0.49
211:TD:41:DG:H2''	211:TD:42:DC:O5'	2.13	0.49
214:U5:22:DC:C2'	214:U5:23:DT:H72	2.41	0.49
220:UD:22:DC:C2'	220:UD:23:DT:H72	2.41	0.49
11:AB:114:DG:H2''	11:AB:115:DC:O5'	2.13	0.49
11:AB:228:DG:H2''	11:AB:229:DC:O5'	2.13	0.49
11:AB:1040:DG:H2''	11:AB:1041:DC:O5'	2.13	0.49
11:AB:1501:DG:H2''	11:AB:1502:DC:O5'	2.13	0.49
11:AB:1883:DG:H2''	11:AB:1884:DC:O5'	2.13	0.49
11:AB:2373:DG:H2''	11:AB:2374:DC:O5'	2.13	0.49
11:AB:3491:DG:H2''	11:AB:3492:DC:O5'	2.13	0.49
11:AB:4850:DG:H2''	11:AB:4851:DC:O5'	2.13	0.49
11:AB:5104:DC:C2'	11:AB:5105:DT:H72	2.42	0.49
11:AB:5594:DG:H2''	11:AB:5595:DC:O5'	2.13	0.49
11:AB:5757:DC:C2'	11:AB:5758:DT:H72	2.42	0.49
11:AB:6004:DG:H2''	11:AB:6005:DC:O5'	2.13	0.49
14:B1:8:DC:O5'	117:K5:25:DG:H2''	2.13	0.49
15:B2:20:DG:H2''	15:B2:21:DC:O5'	2.13	0.49
20:B7:13:DG:H2''	97:I7:28:DC:O5'	2.13	0.49
32:C8:39:DG:H2''	32:C8:40:DC:O5'	2.13	0.49
41:D6:22:DC:O5'	211:TD:21:DG:H2''	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:E5:12:DC:C2'	51:E5:13:DT:H72	2.42	0.49
57:EC:14:DG:H2''	57:EC:15:DC:O5'	2.13	0.49
74:G6:22:DC:C2'	74:G6:23:DT:H72	2.42	0.49
85:H6:18:DC:C2'	85:H6:19:DT:H72	2.42	0.49
92:I1:23:DG:H2''	92:I1:24:DC:O5'	2.13	0.49
109:J8:34:DG:H2''	109:J8:35:DC:O5'	2.13	0.49
109:J8:42:DG:H2''	109:J8:43:DC:O5'	2.13	0.49
122:KA:13:DG:H2''	122:KA:14:DC:O5'	2.13	0.49
147:N3:20:DG:H2''	147:N3:21:DC:O5'	2.13	0.49
153:NA:15:DG:H2''	153:NA:16:DC:O5'	2.13	0.49
160:O7:13:DG:H2''	160:O7:14:DC:O5'	2.13	0.49
170:P7:12:DG:H2''	170:P7:13:DC:O5'	2.13	0.49
186:R3:19:DG:H2''	186:R3:20:DC:O5'	2.13	0.49
198:S8:37:DC:C2'	198:S8:38:DT:H72	2.42	0.49
217:U9:21:DG:H2''	217:U9:22:DC:O5'	2.13	0.49
11:AB:548:DG:H2''	11:AB:549:DC:O5'	2.13	0.48
11:AB:833:DG:H2''	11:AB:834:DC:O5'	2.13	0.48
11:AB:835:DC:C2'	11:AB:836:DT:H72	2.42	0.48
11:AB:1521:DG:H2''	11:AB:1522:DC:O5'	2.13	0.48
11:AB:1979:DG:H2''	11:AB:1980:DC:O5'	2.13	0.48
11:AB:2588:DG:H2''	11:AB:2589:DC:O5'	2.13	0.48
11:AB:2910:DG:H2''	11:AB:2911:DC:O5'	2.13	0.48
11:AB:3665:DC:C2'	11:AB:3666:DT:H72	2.42	0.48
11:AB:4118:DG:H2''	11:AB:4119:DC:O5'	2.13	0.48
11:AB:4139:DG:H2''	11:AB:4140:DC:O5'	2.13	0.48
11:AB:4757:DG:H2''	11:AB:4758:DC:O5'	2.13	0.48
11:AB:5024:DG:H2''	11:AB:5025:DC:O5'	2.13	0.48
11:AB:6154:DG:H2''	11:AB:6155:DC:O5'	2.13	0.48
11:AB:6492:DG:H2''	11:AB:6493:DC:O5'	2.13	0.48
11:AB:6821:DG:H2''	11:AB:6822:DC:O5'	2.13	0.48
11:AB:7050:DG:H2''	11:AB:7051:DC:O5'	2.13	0.48
12:AC:17:DC:O5'	109:J8:28:DG:H2''	2.13	0.48
94:I3:46:DC:O5'	117:K5:39:DG:H2''	2.13	0.48
99:I9:10:DG:H2''	99:I9:11:DC:O5'	2.13	0.48
104:J2:21:DG:H2''	230:W3:36:DC:O5'	2.13	0.48
131:L8:17:DG:H2''	146:N2:15:DC:O5'	2.13	0.48
152:N9:38:DG:H2''	165:OD:50:DC:O5'	2.13	0.48
174:PC:26:DG:H2''	174:PC:27:DC:O5'	2.13	0.48
214:U5:21:DG:H2''	214:U5:22:DC:O5'	2.13	0.48
11:AB:3442:DG:H2''	11:AB:3443:DC:O5'	2.13	0.48
11:AB:3621:DG:H2''	11:AB:3622:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3697:DG:H2''	11:AB:3698:DC:O5'	2.13	0.48
11:AB:3775:DG:H2''	11:AB:3776:DC:O5'	2.13	0.48
11:AB:4105:DG:H2''	11:AB:4106:DC:O5'	2.13	0.48
11:AB:4622:DG:H2''	11:AB:4623:DC:O5'	2.13	0.48
11:AB:6730:DG:H2''	11:AB:6731:DC:O5'	2.13	0.48
27:C2:20:DG:H2''	27:C2:21:DC:O5'	2.13	0.48
37:D1:8:DC:O5'	138:M5:28:DG:H2''	2.13	0.48
204:T3:1:DG:H2''	204:T3:2:DC:O5'	2.13	0.48
205:T5:2:DG:H2''	205:T5:3:DC:O5'	2.13	0.48
11:AB:526:DG:H2''	11:AB:527:DC:O5'	2.13	0.48
11:AB:3888:DG:H2''	11:AB:3889:DC:O5'	2.13	0.48
11:AB:5756:DG:H2''	11:AB:5757:DC:O5'	2.13	0.48
11:AB:6755:DG:H2''	11:AB:6756:DC:O5'	2.13	0.48
11:AB:6825:DG:H2''	11:AB:6826:DC:O5'	2.13	0.48
31:C7:6:DC:O5'	49:E2:30:DG:H2''	2.13	0.48
85:H6:21:DG:H2''	85:H6:22:DC:O5'	2.13	0.48
186:R3:6:DG:H2''	186:R3:7:DC:O5'	2.13	0.48
189:R8:28:DG:H2''	189:R8:29:DC:O5'	2.13	0.48
195:S3:5:DG:H2''	195:S3:6:DC:O5'	2.13	0.48
238:X9:4:DG:H2''	238:X9:5:DC:O5'	2.13	0.48
11:AB:856:DG:H2''	11:AB:857:DC:O5'	2.13	0.48
11:AB:3168:DG:H2''	11:AB:3169:DC:O5'	2.13	0.48
11:AB:3838:DG:H2''	11:AB:3839:DC:O5'	2.13	0.48
11:AB:4702:DG:H2''	11:AB:4703:DC:O5'	2.13	0.48
11:AB:6752:DG:H2''	11:AB:6753:DC:O5'	2.13	0.48
24:BC:27:DG:H2''	35:CC:17:DC:O5'	2.13	0.48
51:E5:11:DG:H2''	51:E5:12:DC:O5'	2.13	0.48
61:F3:15:DG:H2''	61:F3:16:DC:O5'	2.13	0.48
74:G6:21:DG:H2''	74:G6:22:DC:O5'	2.13	0.48
74:G6:35:DG:H2''	74:G6:36:DC:O5'	2.13	0.48
109:J8:12:DG:H2''	109:J8:13:DC:O5'	2.13	0.48
122:KA:8:DC:O5'	209:TA:18:DG:H2''	2.13	0.48
125:L1:12:DG:H2''	125:L1:13:DC:O5'	2.13	0.48
150:N7:22:DG:H2''	150:N7:23:DC:O5'	2.13	0.48
183:QC:21:DG:H2''	183:QC:22:DC:O5'	2.13	0.48
185:R2:15:DG:H2''	185:R2:16:DC:O5'	2.13	0.48
186:R3:11:DG:H2''	186:R3:12:DC:O5'	2.13	0.48
4:A4:11:DG:H2''	4:A4:12:DC:O5'	2.13	0.48
6:A6:28:DG:H2''	6:A6:29:DC:O5'	2.13	0.48
11:AB:44:DG:H2''	11:AB:45:DC:O5'	2.13	0.48
11:AB:1284:DG:H2''	11:AB:1285:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2654:DG:H2''	11:AB:2655:DC:O5'	2.13	0.48
11:AB:3679:DC:O5'	11:AB:4518:DG:H2''	2.13	0.48
11:AB:4004:DG:H2''	11:AB:4005:DC:O5'	2.13	0.48
11:AB:4583:DG:H2''	11:AB:4584:DC:O5'	2.13	0.48
11:AB:4689:DG:H2''	11:AB:4690:DC:O5'	2.13	0.48
11:AB:5772:DG:H2''	11:AB:5773:DC:O5'	2.13	0.48
11:AB:6050:DG:H2''	11:AB:6051:DC:O5'	2.13	0.48
11:AB:7072:DG:H2''	11:AB:7073:DC:O5'	2.13	0.48
14:B1:21:DG:H2''	14:B1:22:DC:O5'	2.13	0.48
15:B2:14:DC:O5'	30:C6:7:DG:H2''	2.13	0.48
27:C2:6:DG:H2''	27:C2:7:DC:O5'	2.13	0.48
48:E1:12:DG:H2''	48:E1:13:DC:O5'	2.13	0.48
104:J2:26:DG:H2''	104:J2:27:DC:O5'	2.13	0.48
109:J8:40:DG:H2''	109:J8:41:DC:O5'	2.13	0.48
132:L9:12:DG:H2''	132:L9:13:DC:O5'	2.13	0.48
133:LA:11:DC:O5'	182:QA:14:DG:H2''	2.13	0.48
139:M6:21:DG:H2''	139:M6:22:DC:O5'	2.13	0.48
147:N3:5:DG:H2''	147:N3:6:DC:O5'	2.13	0.48
159:O6:5:DG:H2''	159:O6:6:DC:O5'	2.13	0.48
11:AB:86:DG:H2''	11:AB:87:DC:O5'	2.13	0.48
11:AB:1038:DG:H2''	11:AB:1039:DC:O5'	2.13	0.48
11:AB:1161:DG:H2''	11:AB:1162:DC:O5'	2.13	0.48
11:AB:2033:DG:H2''	11:AB:5858:DC:O5'	2.13	0.48
11:AB:3530:DG:H2''	11:AB:4791:DC:O5'	2.13	0.48
11:AB:4574:DG:H2''	11:AB:4575:DC:O5'	2.13	0.48
11:AB:7012:DG:H2''	11:AB:7013:DC:O5'	2.13	0.48
17:B4:11:DG:H2''	17:B4:12:DC:O5'	2.13	0.48
51:E5:25:DG:H2''	51:E5:26:DC:O5'	2.13	0.48
52:E6:33:DG:H2''	52:E6:34:DC:O5'	2.13	0.48
58:ED:21:DG:H2''	58:ED:22:DC:O5'	2.13	0.48
131:L8:18:DC:O5'	146:N2:14:DG:H2''	2.13	0.48
158:O5:27:DG:H2''	198:S8:18:DC:O5'	2.13	0.48
169:P6:18:DG:H2''	169:P6:19:DC:O5'	2.13	0.48
178:Q5:5:DG:H2''	178:Q5:6:DC:O5'	2.13	0.48
192:RC:11:DG:H2''	192:RC:12:DC:O5'	2.13	0.48
213:U3:19:DG:H2''	213:U3:20:DC:O5'	2.13	0.48
11:AB:14:DG:H2''	11:AB:15:DC:O5'	2.13	0.48
11:AB:126:DG:H2''	11:AB:127:DC:O5'	2.13	0.48
11:AB:457:DG:H2''	11:AB:458:DC:O5'	2.13	0.48
11:AB:499:DG:H2''	11:AB:500:DC:O5'	2.13	0.48
11:AB:1026:DG:H2''	11:AB:1027:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1347:DG:H2''	11:AB:1348:DC:O5'	2.13	0.48
11:AB:1898:DG:H2''	11:AB:1899:DC:O5'	2.13	0.48
11:AB:2018:DG:H2''	11:AB:2019:DC:O5'	2.13	0.48
11:AB:2296:DG:H2''	11:AB:2297:DC:O5'	2.13	0.48
11:AB:5534:DG:H2''	11:AB:5535:DC:O5'	2.13	0.48
11:AB:5824:DG:H2''	11:AB:5825:DC:O5'	2.13	0.48
11:AB:5860:DG:H2''	11:AB:5861:DC:O5'	2.13	0.48
11:AB:6211:DG:H2''	11:AB:6212:DC:O5'	2.13	0.48
11:AB:6400:DG:H2''	11:AB:6401:DC:O5'	2.13	0.48
11:AB:6905:DG:H2''	11:AB:6906:DC:O5'	2.13	0.48
49:E2:4:DG:H2''	49:E2:5:DC:O5'	2.13	0.48
67:FA:18:DG:H2''	67:FA:19:DC:O5'	2.13	0.48
68:FC:5:DG:H2''	68:FC:6:DC:O5'	2.13	0.48
79:GC:12:DG:H2''	79:GC:13:DC:O5'	2.13	0.48
82:H2:38:DG:H2''	82:H2:39:DC:O5'	2.13	0.48
99:I9:17:DG:H2''	99:I9:18:DC:O5'	2.13	0.48
99:I9:25:DG:H2''	99:I9:26:DC:O5'	2.13	0.48
110:J9:18:DG:H2''	110:J9:19:DC:O5'	2.13	0.48
112:JC:12:DG:H2''	112:JC:13:DC:O5'	2.13	0.48
139:M6:19:DG:H2''	139:M6:20:DC:O5'	2.13	0.48
5:A5:23:DG:H2''	5:A5:24:DC:O5'	2.13	0.48
11:AB:42:DG:H2''	11:AB:43:DC:O5'	2.13	0.48
11:AB:294:DG:H2''	11:AB:295:DC:O5'	2.13	0.48
11:AB:390:DG:H2''	11:AB:391:DC:O5'	2.13	0.48
11:AB:865:DC:O5'	11:AB:6788:DG:H2''	2.13	0.48
11:AB:993:DG:H2''	11:AB:994:DC:O5'	2.13	0.48
11:AB:1967:DG:H2''	11:AB:1968:DC:O5'	2.13	0.48
11:AB:2014:DG:H2''	11:AB:2015:DC:O5'	2.13	0.48
11:AB:2081:DG:H2''	11:AB:2082:DC:O5'	2.13	0.48
11:AB:3105:DG:H2''	11:AB:3106:DC:O5'	2.13	0.48
11:AB:3214:DG:H2''	11:AB:3215:DC:O5'	2.13	0.48
11:AB:3653:DG:H2''	11:AB:3654:DC:O5'	2.13	0.48
11:AB:3811:DG:H2''	11:AB:3812:DC:O5'	2.13	0.48
11:AB:4048:DG:H2''	11:AB:4049:DC:O5'	2.13	0.48
11:AB:4063:DG:H2''	11:AB:4064:DC:O5'	2.13	0.48
11:AB:4085:DG:H2''	11:AB:4086:DC:O5'	2.13	0.48
11:AB:4154:DG:H2''	11:AB:4155:DC:O5'	2.13	0.48
11:AB:4188:DG:H2''	11:AB:4189:DC:O5'	2.13	0.48
11:AB:4249:DG:H2''	11:AB:4250:DC:O5'	2.13	0.48
11:AB:4303:DG:H2''	11:AB:4304:DC:O5'	2.13	0.48
11:AB:5548:DG:H2''	11:AB:5549:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5695:DG:H2''	11:AB:5696:DC:O5'	2.13	0.48
11:AB:6999:DG:H2''	11:AB:7000:DC:O5'	2.13	0.48
18:B5:3:DG:H2''	18:B5:4:DC:O5'	2.13	0.48
23:BA:17:DG:H2''	23:BA:18:DC:O5'	2.13	0.48
32:C8:4:DG:H2''	32:C8:5:DC:O5'	2.13	0.48
32:C8:8:DG:H2''	32:C8:9:DC:O5'	2.13	0.48
46:DC:16:DG:H2''	46:DC:17:DC:O5'	2.13	0.48
66:F9:7:DG:H2''	66:F9:8:DC:O5'	2.13	0.48
88:H9:31:DG:H2''	182:QA:1:DC:O5'	2.14	0.48
99:I9:21:DG:H2''	99:I9:22:DC:O5'	2.13	0.48
125:L1:25:DG:H2''	125:L1:26:DC:O5'	2.13	0.48
142:M9:5:DG:H2''	142:M9:6:DC:O5'	2.13	0.48
151:N8:15:DG:H2''	151:N8:16:DC:O5'	2.13	0.48
156:O2:29:DG:H2''	156:O2:30:DC:O5'	2.13	0.48
167:P3:29:DG:H2''	167:P3:30:DC:O5'	2.13	0.48
212:U2:10:DG:H2''	212:U2:11:DC:O5'	2.13	0.48
217:U9:7:DG:H2''	217:U9:8:DC:O5'	2.13	0.48
238:X9:49:DG:H2''	238:X9:50:DC:O5'	2.13	0.48
11:AB:328:DG:H2''	11:AB:329:DC:O5'	2.13	0.48
11:AB:913:DG:H2''	11:AB:914:DC:O5'	2.13	0.48
11:AB:1011:DG:H2''	11:AB:1012:DC:O5'	2.13	0.48
11:AB:1535:DG:H2''	11:AB:1536:DC:O5'	2.13	0.48
11:AB:1667:DG:H2''	11:AB:1668:DC:O5'	2.13	0.48
11:AB:1669:DG:H2''	11:AB:1670:DC:O5'	2.13	0.48
11:AB:1789:DG:H2''	11:AB:1790:DC:O5'	2.13	0.48
11:AB:1848:DG:H2''	11:AB:1849:DC:O5'	2.13	0.48
11:AB:1949:DG:H2''	11:AB:1950:DC:O5'	2.13	0.48
11:AB:2391:DG:H2''	11:AB:2392:DC:O5'	2.13	0.48
11:AB:3414:DG:H2''	11:AB:3415:DC:O5'	2.13	0.48
11:AB:3555:DG:H2''	11:AB:3556:DC:O5'	2.13	0.48
11:AB:3779:DG:H2''	11:AB:3780:DC:O5'	2.13	0.48
11:AB:4175:DG:H2''	11:AB:4176:DC:O5'	2.13	0.48
11:AB:4854:DG:H2''	11:AB:4855:DC:O5'	2.13	0.48
11:AB:5176:DG:H2''	11:AB:5177:DC:O5'	2.13	0.48
11:AB:5749:DG:H2''	11:AB:5750:DC:O5'	2.13	0.48
11:AB:6386:DG:H2''	11:AB:6387:DC:O5'	2.13	0.48
11:AB:7160:DG:H2''	11:AB:7161:DC:O5'	2.13	0.48
11:AB:7177:DG:H2''	11:AB:7178:DC:O5'	2.13	0.48
13:AD:43:DG:H2''	13:AD:44:DC:O5'	2.13	0.48
24:BC:8:DG:H2''	24:BC:9:DC:O5'	2.13	0.48
41:D6:5:DG:H2''	41:D6:6:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:D7:19:DG:H2''	42:D7:20:DC:O5'	2.13	0.48
47:DD:38:DG:H2''	47:DD:39:DC:O5'	2.13	0.48
53:E7:16:DG:H2''	53:E7:17:DC:O5'	2.13	0.48
54:E8:28:DG:H2''	54:E8:29:DC:O5'	2.13	0.48
65:F8:11:DG:H2''	65:F8:12:DC:O5'	2.13	0.48
83:H3:5:DG:H2''	83:H3:6:DC:O5'	2.13	0.48
94:I3:20:DG:H2''	94:I3:21:DC:O5'	2.13	0.48
112:JC:2:DG:H2''	112:JC:3:DC:O5'	2.13	0.48
115:K2:15:DG:H2''	115:K2:16:DC:O5'	2.13	0.48
117:K5:3:DG:H2''	117:K5:4:DC:O5'	2.13	0.48
117:K5:27:DG:H2''	117:K5:28:DC:O5'	2.13	0.48
134:LC:16:DG:H2''	134:LC:17:DC:O5'	2.13	0.48
149:N6:50:DG:H2''	149:N6:51:DC:O5'	2.13	0.48
151:N8:20:DG:H2''	151:N8:21:DC:O5'	2.13	0.48
166:P2:28:DG:H2''	166:P2:29:DC:O5'	2.13	0.48
169:P6:5:DG:H2''	169:P6:6:DC:O5'	2.13	0.48
180:Q8:10:DG:H2''	180:Q8:11:DC:O5'	2.13	0.48
187:R5:18:DG:H2''	187:R5:19:DC:O5'	2.13	0.48
190:R9:45:DG:H2''	190:R9:46:DC:O5'	2.13	0.48
199:S9:20:DG:H2''	199:S9:21:DC:O5'	2.13	0.48
201:SC:5:DG:H2''	201:SC:6:DC:O5'	2.13	0.48
204:T3:5:DG:H2''	204:T3:6:DC:O5'	2.13	0.48
206:T7:12:DG:H2''	206:T7:13:DC:O5'	2.13	0.48
209:TA:16:DG:H2''	209:TA:17:DC:O5'	2.13	0.48
11:AB:90:DG:H2''	11:AB:91:DC:O5'	2.13	0.48
11:AB:204:DG:H2''	11:AB:205:DC:O5'	2.13	0.48
11:AB:307:DG:H2''	11:AB:308:DC:O5'	2.13	0.48
11:AB:726:DG:H2''	11:AB:727:DC:O5'	2.13	0.48
11:AB:1126:DG:H2''	11:AB:1127:DC:O5'	2.13	0.48
11:AB:1165:DG:H2''	11:AB:1166:DC:O5'	2.13	0.48
11:AB:1927:DG:H2''	11:AB:1928:DC:O5'	2.13	0.48
11:AB:1971:DG:H2''	11:AB:1972:DC:O5'	2.13	0.48
11:AB:2311:DG:H2''	11:AB:2312:DC:O5'	2.13	0.48
11:AB:2538:DG:H2''	11:AB:2539:DC:O5'	2.13	0.48
11:AB:2996:DG:H2''	11:AB:2997:DC:O5'	2.13	0.48
11:AB:4088:DG:H2''	11:AB:4089:DC:O5'	2.13	0.48
11:AB:4127:DG:H2''	11:AB:4128:DC:O5'	2.13	0.48
11:AB:4496:DG:H2''	11:AB:4497:DC:O5'	2.13	0.48
11:AB:4602:DG:H2''	11:AB:4603:DC:O5'	2.13	0.48
11:AB:4672:DG:H2''	11:AB:4673:DC:O5'	2.13	0.48
11:AB:4725:DG:H2''	11:AB:4726:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4846:DG:H2''	11:AB:4847:DC:O5'	2.13	0.48
11:AB:4925:DG:H2''	11:AB:4926:DC:O5'	2.13	0.48
11:AB:5113:DG:H2''	11:AB:5114:DC:O5'	2.13	0.48
11:AB:5134:DG:H2''	11:AB:5135:DC:O5'	2.13	0.48
11:AB:5704:DG:H2''	11:AB:5705:DC:O5'	2.13	0.48
11:AB:6337:DG:H2''	11:AB:6338:DC:O5'	2.13	0.48
11:AB:6474:DG:H2''	11:AB:6475:DC:O5'	2.13	0.48
11:AB:6505:DG:H2''	11:AB:6506:DC:O5'	2.13	0.48
11:AB:6833:DG:H2''	11:AB:6834:DC:O5'	2.13	0.48
11:AB:7084:DG:H2''	11:AB:7085:DC:O5'	2.13	0.48
11:AB:7217:DG:H2''	11:AB:7218:DC:O5'	2.13	0.48
13:AD:28:DG:H2''	13:AD:29:DC:O5'	2.13	0.48
18:B5:8:DG:H2''	18:B5:9:DC:O5'	2.13	0.48
35:CC:31:DG:H2''	35:CC:32:DC:O5'	2.13	0.48
37:D1:31:DG:H2''	37:D1:32:DC:O5'	2.13	0.48
40:D5:24:DG:H2''	40:D5:25:DC:O5'	2.13	0.48
52:E6:30:DG:H2''	52:E6:31:DC:O5'	2.13	0.48
58:ED:7:DG:H2''	58:ED:8:DC:O5'	2.13	0.48
58:ED:29:DG:H2''	58:ED:30:DC:O5'	2.13	0.48
60:F2:22:DG:H2''	60:F2:23:DC:O5'	2.13	0.48
70:G1:6:DG:H2''	70:G1:7:DC:O5'	2.13	0.48
93:I2:30:DG:H2''	93:I2:31:DC:O5'	2.13	0.48
106:J5:27:DG:H2''	106:J5:28:DC:O5'	2.13	0.48
107:J6:22:DG:H2''	107:J6:23:DC:O5'	2.13	0.48
108:J7:20:DG:H2''	108:J7:21:DC:O5'	2.13	0.48
113:JD:12:DG:H2''	113:JD:13:DC:O5'	2.13	0.48
115:K2:17:DG:H2''	115:K2:18:DC:O5'	2.13	0.48
118:K6:9:DG:H2''	118:K6:10:DC:O5'	2.13	0.48
143:MA:11:DG:H2''	143:MA:12:DC:O5'	2.13	0.48
145:MD:24:DG:H2''	145:MD:25:DC:O5'	2.13	0.48
155:ND:20:DG:H2''	175:PD:1:DC:O5'	2.13	0.48
163:OA:2:DG:H2''	163:OA:3:DC:O5'	2.13	0.48
174:PC:11:DG:H2''	174:PC:12:DC:O5'	2.13	0.48
188:R7:14:DG:H2''	188:R7:15:DC:O5'	2.13	0.48
200:SA:26:DG:H2''	200:SA:27:DC:O5'	2.13	0.48
209:TA:12:DG:H2''	209:TA:13:DC:O5'	2.13	0.48
217:U9:11:DG:H2''	217:U9:12:DC:O5'	2.13	0.48
223:V5:37:DG:H2''	223:V5:38:DC:O5'	2.13	0.48
227:VA:7:DG:H2''	227:VA:8:DC:O5'	2.13	0.48
228:VC:12:DG:H2''	228:VC:13:DC:O5'	2.13	0.48
233:W8:18:DG:H2''	233:W8:19:DC:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:442:DG:H2''	11:AB:443:DC:O5'	2.13	0.47
11:AB:738:DG:H2''	11:AB:739:DC:O5'	2.13	0.47
11:AB:768:DG:H2''	11:AB:769:DC:O5'	2.13	0.47
11:AB:1077:DG:H2''	11:AB:1078:DC:O5'	2.13	0.47
11:AB:1182:DG:H2''	11:AB:1183:DC:O5'	2.13	0.47
11:AB:1406:DG:H2''	11:AB:1407:DC:O5'	2.13	0.47
11:AB:1573:DG:H2''	11:AB:1574:DC:O5'	2.13	0.47
11:AB:2171:DG:H2''	11:AB:2172:DC:O5'	2.13	0.47
11:AB:2273:DG:H2''	11:AB:2274:DC:O5'	2.13	0.47
11:AB:2918:DG:H2''	11:AB:2919:DC:O5'	2.13	0.47
11:AB:3142:DG:H2''	11:AB:3143:DC:O5'	2.13	0.47
11:AB:4038:DG:H2''	11:AB:4039:DC:O5'	2.13	0.47
11:AB:4472:DG:H2''	11:AB:4473:DC:O5'	2.13	0.47
11:AB:5036:DG:H2''	11:AB:5037:DC:O5'	2.13	0.47
11:AB:5468:DG:H2''	11:AB:5469:DC:O5'	2.13	0.47
11:AB:5636:DG:H2''	11:AB:5637:DC:O5'	2.13	0.47
11:AB:5864:DG:H2''	11:AB:5865:DC:O5'	2.13	0.47
11:AB:6218:DG:H2''	11:AB:6219:DC:O5'	2.13	0.47
11:AB:6734:DG:H2''	11:AB:6735:DC:O5'	2.13	0.47
11:AB:6964:DG:H2''	11:AB:6965:DC:O5'	2.13	0.47
11:AB:7154:DG:H2''	11:AB:7155:DC:O5'	2.13	0.47
24:BC:39:DG:H2''	24:BC:40:DC:O5'	2.13	0.47
41:D6:19:DG:H2''	41:D6:20:DC:O5'	2.13	0.47
63:F6:9:DG:H2''	63:F6:10:DC:O5'	2.13	0.47
69:FD:37:DG:H2''	69:FD:38:DC:O5'	2.13	0.47
84:H5:20:DG:H2''	84:H5:21:DC:O5'	2.13	0.47
88:H9:11:DG:H2''	88:H9:12:DC:O5'	2.13	0.47
90:HC:8:DG:H2''	90:HC:9:DC:O5'	2.13	0.47
103:J1:13:DG:H2''	103:J1:14:DC:O5'	2.13	0.47
114:K1:16:DG:H2''	114:K1:17:DC:O5'	2.13	0.47
128:L5:10:DG:H2''	128:L5:11:DC:O5'	2.13	0.47
133:LA:6:DG:H2''	133:LA:7:DC:O5'	2.13	0.47
187:R5:4:DG:H2''	187:R5:5:DC:O5'	2.13	0.47
195:S3:2:DG:H2''	195:S3:3:DC:O5'	2.13	0.47
204:T3:20:DG:H2''	204:T3:21:DC:O5'	2.13	0.47
214:U5:17:DG:H2''	214:U5:18:DC:O5'	2.13	0.47
223:V5:10:DG:H2''	223:V5:11:DC:O5'	2.13	0.47
11:AB:386:DG:H2''	11:AB:387:DC:O5'	2.13	0.47
11:AB:415:DG:H2''	11:AB:416:DC:O5'	2.13	0.47
11:AB:817:DG:H2''	11:AB:818:DC:O5'	2.13	0.47
11:AB:859:DG:H2''	11:AB:860:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:943:DG:H2''	11:AB:944:DC:O5'	2.13	0.47
11:AB:958:DG:H2''	11:AB:959:DC:O5'	2.13	0.47
11:AB:1095:DG:H2''	11:AB:1096:DC:O5'	2.13	0.47
11:AB:1131:DG:H2''	11:AB:1132:DC:O5'	2.13	0.47
11:AB:2184:DG:H2''	11:AB:2185:DC:O5'	2.13	0.47
11:AB:2345:DG:H2''	11:AB:2346:DC:O5'	2.13	0.47
11:AB:3022:DG:H2''	11:AB:3023:DC:O5'	2.13	0.47
11:AB:3445:DG:H2''	11:AB:3446:DC:O5'	2.13	0.47
11:AB:3953:DG:H2''	11:AB:3954:DC:O5'	2.13	0.47
11:AB:4025:DG:H2''	11:AB:4026:DC:O5'	2.13	0.47
11:AB:4107:DG:H2''	11:AB:4108:DC:O5'	2.13	0.47
11:AB:4110:DG:H2''	11:AB:4111:DC:O5'	2.13	0.47
11:AB:4131:DG:H2''	11:AB:4132:DC:O5'	2.13	0.47
11:AB:4184:DG:H2''	11:AB:4185:DC:O5'	2.14	0.47
11:AB:4515:DG:H2''	11:AB:4516:DC:O5'	2.13	0.47
11:AB:4532:DG:H2''	11:AB:4533:DC:O5'	2.13	0.47
11:AB:4667:DG:H2''	11:AB:4668:DC:O5'	2.13	0.47
11:AB:4859:DG:H2''	11:AB:4860:DC:O5'	2.13	0.47
11:AB:5215:DG:H2''	11:AB:5216:DC:O5'	2.13	0.47
11:AB:7187:DG:H2''	11:AB:7188:DC:O5'	2.13	0.47
11:AB:7208:DG:H2''	11:AB:7209:DC:O5'	2.13	0.47
11:AB:7214:DG:H2''	11:AB:7215:DC:O5'	2.13	0.47
11:AB:7235:DG:H2''	11:AB:7236:DC:O5'	2.13	0.47
22:B9:4:DG:H2''	22:B9:5:DC:O5'	2.13	0.47
30:C6:25:DG:H2''	30:C6:26:DC:O5'	2.13	0.47
38:D2:17:DG:H2''	38:D2:18:DC:O5'	2.13	0.47
41:D6:3:DG:H2''	41:D6:4:DC:O5'	2.13	0.47
43:D8:9:DG:H2''	43:D8:10:DC:O5'	2.13	0.47
55:E9:22:DG:H2''	55:E9:23:DC:O5'	2.13	0.47
69:FD:44:DG:H2''	69:FD:45:DC:O5'	2.13	0.47
80:GD:21:DG:H2''	80:GD:22:DC:O5'	2.13	0.47
82:H2:5:DG:H2''	82:H2:6:DC:O5'	2.13	0.47
86:H7:21:DG:H2''	86:H7:22:DC:O5'	2.13	0.47
88:H9:27:DG:H2''	88:H9:28:DC:O5'	2.13	0.47
91:HD:19:DG:H2''	91:HD:20:DC:O5'	2.13	0.47
95:I5:42:DG:H2''	187:R5:1:DC:O5'	2.13	0.47
106:J5:30:DG:H2''	106:J5:31:DC:O5'	2.13	0.47
110:J9:15:DG:H2''	110:J9:16:DC:O5'	2.13	0.47
124:KD:6:DG:H2''	124:KD:7:DC:O5'	2.13	0.47
143:MA:30:DG:H2''	143:MA:31:DC:O5'	2.13	0.47
147:N3:12:DG:H2''	147:N3:13:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
154:NC:26:DG:H2''	154:NC:27:DC:O5'	2.13	0.47
173:PA:36:DG:H2''	173:PA:37:DC:O5'	2.13	0.47
174:PC:7:DG:H2''	174:PC:8:DC:O5'	2.13	0.47
175:PD:17:DG:H2''	175:PD:18:DC:O5'	2.13	0.47
187:R5:10:DG:H2''	187:R5:11:DC:O5'	2.13	0.47
192:RC:7:DG:H2''	192:RC:8:DC:O5'	2.13	0.47
222:V3:10:DG:H2''	222:V3:11:DC:O5'	2.13	0.47
227:VA:22:DG:H2''	227:VA:23:DC:O5'	2.13	0.47
11:AB:590:DG:H2''	11:AB:591:DC:O5'	2.13	0.47
11:AB:601:DC:H2'	11:AB:602:DT:H72	1.96	0.47
11:AB:1060:DG:H2''	11:AB:1061:DC:O5'	2.13	0.47
11:AB:1267:DG:H2''	11:AB:1268:DC:O5'	2.13	0.47
11:AB:2169:DG:H2''	11:AB:2170:DC:O5'	2.13	0.47
11:AB:2556:DG:H2''	11:AB:2557:DC:O5'	2.13	0.47
11:AB:4074:DG:H2''	11:AB:4075:DC:O5'	2.13	0.47
11:AB:4428:DG:H2''	11:AB:4429:DC:O5'	2.13	0.47
11:AB:4600:DG:H2''	11:AB:4601:DC:O5'	2.13	0.47
11:AB:4809:DG:H2''	11:AB:4810:DC:O5'	2.13	0.47
11:AB:4943:DG:H2''	11:AB:4944:DC:O5'	2.13	0.47
11:AB:5058:DG:H2''	11:AB:5059:DC:O5'	2.13	0.47
11:AB:5132:DG:H2''	11:AB:5133:DC:O5'	2.13	0.47
11:AB:5521:DG:H2''	11:AB:5522:DC:O5'	2.13	0.47
11:AB:5681:DG:H2''	11:AB:5682:DC:O5'	2.13	0.47
11:AB:6146:DG:H2''	11:AB:6147:DC:O5'	2.13	0.47
11:AB:6463:DG:H2''	11:AB:6464:DC:O5'	2.13	0.47
11:AB:6693:DG:H2''	11:AB:6694:DC:O5'	2.13	0.47
23:BA:24:DC:H2'	23:BA:25:DT:H72	1.96	0.47
46:DC:8:DG:H2''	46:DC:9:DC:O5'	2.13	0.47
61:F3:1:DC:O5'	72:G3:28:DG:H2''	2.14	0.47
120:K8:6:DG:H2''	120:K8:7:DC:O5'	2.13	0.47
140:M7:16:DG:H2''	140:M7:17:DC:O5'	2.13	0.47
143:MA:9:DG:H2''	143:MA:10:DC:O5'	2.13	0.47
145:MD:38:DG:H2''	145:MD:39:DC:O5'	2.13	0.47
147:N3:25:DG:H2''	147:N3:26:DC:O5'	2.13	0.47
160:O7:1:DG:H2''	160:O7:2:DC:O5'	2.13	0.47
174:PC:23:DG:H2''	174:PC:24:DC:O5'	2.13	0.47
196:S5:13:DG:H2''	196:S5:14:DC:O5'	2.13	0.47
11:AB:862:DG:H2''	11:AB:863:DC:O5'	2.13	0.47
11:AB:1855:DG:H2''	11:AB:1856:DC:O5'	2.13	0.47
11:AB:2281:DC:H2'	11:AB:2282:DT:H72	1.97	0.47
11:AB:2877:DG:H2''	11:AB:2878:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3185:DC:H2'	11:AB:3186:DT:H72	1.97	0.47
11:AB:3469:DG:H2''	11:AB:3470:DC:O5'	2.13	0.47
11:AB:3764:DC:H2'	11:AB:3765:DT:H72	1.97	0.47
11:AB:3871:DG:H2''	11:AB:3872:DC:O5'	2.13	0.47
11:AB:4083:DG:H2''	11:AB:4084:DC:O5'	2.13	0.47
11:AB:5062:DG:H2''	11:AB:5063:DC:O5'	2.13	0.47
11:AB:6024:DG:H2''	11:AB:6025:DC:O5'	2.13	0.47
11:AB:6130:DG:H2''	11:AB:6131:DC:O5'	2.13	0.47
11:AB:7190:DG:H2''	11:AB:7191:DC:O5'	2.13	0.47
12:AC:18:DG:H2''	12:AC:19:DC:O5'	2.13	0.47
22:B9:41:DG:H2''	22:B9:42:DC:O5'	2.13	0.47
32:C8:47:DG:H2''	32:C8:48:DC:O5'	2.13	0.47
41:D6:16:DC:H2'	41:D6:17:DT:H72	1.97	0.47
46:DC:20:DG:H2''	46:DC:21:DC:O5'	2.13	0.47
68:FC:17:DG:H2''	68:FC:18:DC:O5'	2.13	0.47
93:I2:45:DG:H2''	93:I2:46:DC:O5'	2.13	0.47
104:J2:18:DC:H2'	104:J2:19:DT:H72	1.97	0.47
108:J7:16:DC:H2'	108:J7:17:DT:H72	1.97	0.47
113:JD:30:DG:H2''	113:JD:31:DC:O5'	2.13	0.47
115:K2:9:DG:H2''	115:K2:10:DC:O5'	2.13	0.47
119:K7:27:DG:H2''	119:K7:28:DC:O5'	2.13	0.47
129:L6:23:DG:H2''	129:L6:24:DC:O5'	2.13	0.47
154:NC:32:DC:O5'	216:U8:24:DG:H2''	2.13	0.47
158:O5:50:DG:H2''	158:O5:51:DC:O5'	2.13	0.47
179:Q7:22:DG:H2''	179:Q7:23:DC:O5'	2.13	0.47
184:QD:15:DC:O5'	238:X9:10:DG:H2''	2.13	0.47
191:RA:9:DG:H2''	191:RA:10:DC:O5'	2.13	0.47
11:AB:397:DC:H2'	11:AB:398:DT:H72	1.97	0.47
11:AB:418:DC:H2'	11:AB:419:DT:H72	1.97	0.47
11:AB:664:DC:H2'	11:AB:665:DT:H72	1.97	0.47
11:AB:1429:DG:H2''	11:AB:1430:DC:O5'	2.13	0.47
11:AB:1611:DG:H2''	11:AB:1612:DC:O5'	2.13	0.47
11:AB:1914:DG:H2''	11:AB:1915:DC:O5'	2.13	0.47
11:AB:2025:DC:H2'	11:AB:2026:DT:H72	1.97	0.47
11:AB:2329:DC:H2'	11:AB:2330:DT:H72	1.97	0.47
11:AB:2584:DC:H2'	11:AB:2585:DT:H72	1.97	0.47
11:AB:2669:DC:H2'	11:AB:2670:DT:H72	1.97	0.47
11:AB:2729:DG:H2''	11:AB:2730:DC:O5'	2.13	0.47
11:AB:2852:DC:H2'	11:AB:2853:DT:H72	1.97	0.47
11:AB:3317:DC:H2'	11:AB:3318:DT:H72	1.97	0.47
11:AB:3369:DG:H2''	11:AB:3370:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3514:DG:H2''	11:AB:3515:DC:O5'	2.13	0.47
11:AB:4241:DG:H2''	11:AB:4242:DC:O5'	2.13	0.47
11:AB:4253:DC:H2'	11:AB:4254:DT:H72	1.97	0.47
11:AB:4711:DG:H2''	11:AB:4712:DC:O5'	2.13	0.47
11:AB:4967:DG:H2''	11:AB:4968:DC:O5'	2.13	0.47
11:AB:5010:DG:H2''	11:AB:5011:DC:O5'	2.13	0.47
11:AB:5216:DC:H2'	11:AB:5217:DT:H72	1.97	0.47
11:AB:5522:DC:H2'	11:AB:5523:DT:H72	1.97	0.47
11:AB:5861:DC:H2'	11:AB:5862:DT:H72	1.97	0.47
11:AB:6298:DG:H2''	11:AB:6299:DC:O5'	2.13	0.47
11:AB:6888:DC:H2'	11:AB:6889:DT:H72	1.97	0.47
24:BC:15:DG:H2''	24:BC:16:DC:O5'	2.13	0.47
42:D7:14:DG:H2''	97:I7:21:DC:O5'	2.13	0.47
47:DD:29:DG:H2''	47:DD:30:DC:O5'	2.13	0.47
50:E3:2:DG:H2''	50:E3:3:DC:O5'	2.13	0.47
53:E7:11:DG:H2''	53:E7:12:DC:O5'	2.13	0.47
54:E8:26:DG:H2''	54:E8:27:DC:O5'	2.13	0.47
69:FD:2:DG:H2''	69:FD:3:DC:O5'	2.13	0.47
72:G3:2:DC:H2'	72:G3:3:DT:H72	1.97	0.47
72:G3:14:DG:H2''	72:G3:15:DC:O5'	2.13	0.47
106:J5:7:DG:H2''	106:J5:8:DC:O5'	2.13	0.47
138:M5:37:DC:H2'	138:M5:38:DT:H72	1.97	0.47
160:O7:14:DC:H2'	160:O7:15:DT:H72	1.97	0.47
162:O9:8:DC:H2'	162:O9:9:DT:H72	1.97	0.47
209:TA:27:DG:H2''	209:TA:28:DC:O5'	2.13	0.47
211:TD:10:DG:H2''	211:TD:11:DC:O5'	2.13	0.47
11:AB:196:DC:H2'	11:AB:197:DT:H72	1.97	0.47
11:AB:694:DC:H2'	11:AB:695:DT:H72	1.97	0.47
11:AB:961:DC:H2'	11:AB:962:DT:H72	1.97	0.47
11:AB:1096:DC:H2'	11:AB:1097:DT:H72	1.97	0.47
11:AB:1132:DC:H2'	11:AB:1133:DT:H72	1.97	0.47
11:AB:1240:DC:H2'	11:AB:1241:DT:H72	1.97	0.47
11:AB:1812:DC:H2'	11:AB:1813:DT:H72	1.97	0.47
11:AB:2437:DC:H2'	11:AB:2438:DT:H72	1.97	0.47
11:AB:3296:DC:H2'	11:AB:3297:DT:H72	1.97	0.47
11:AB:3450:DC:H2'	11:AB:3451:DT:H72	1.97	0.47
11:AB:3776:DC:H2'	11:AB:3777:DT:H72	1.97	0.47
11:AB:3902:DC:H2'	11:AB:3903:DT:H72	1.97	0.47
11:AB:3904:DC:H2'	11:AB:3905:DT:H72	1.97	0.47
11:AB:4124:DC:H2'	11:AB:4125:DT:H72	1.97	0.47
11:AB:4136:DC:H2'	11:AB:4137:DT:H72	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4325:DC:H2'	11:AB:4326:DT:H72	1.97	0.47
11:AB:4467:DC:H2'	11:AB:4468:DT:H72	1.97	0.47
11:AB:5079:DC:H2'	11:AB:5080:DT:H72	1.97	0.47
11:AB:5140:DC:H2'	11:AB:5141:DT:H72	1.97	0.47
11:AB:5392:DC:H2'	11:AB:5393:DT:H72	1.97	0.47
11:AB:5483:DG:H2''	11:AB:5484:DC:O5'	2.13	0.47
11:AB:5511:DC:H2'	11:AB:5512:DT:H72	1.97	0.47
11:AB:5699:DC:H2'	11:AB:5700:DT:H72	1.97	0.47
11:AB:5800:DC:H2'	11:AB:5801:DT:H72	1.97	0.47
11:AB:5981:DC:H2'	11:AB:5982:DT:H72	1.97	0.47
11:AB:6637:DC:H2'	11:AB:6638:DT:H72	1.97	0.47
11:AB:6807:DC:H2'	11:AB:6808:DT:H72	1.97	0.47
11:AB:6918:DG:H2''	11:AB:6919:DC:O5'	2.13	0.47
22:B9:6:DC:H2'	22:B9:7:DT:H72	1.97	0.47
65:F8:3:DG:H2''	65:F8:4:DC:O5'	2.13	0.47
69:FD:31:DG:H2''	69:FD:32:DC:O5'	2.13	0.47
82:H2:43:DG:H2''	82:H2:44:DC:O5'	2.13	0.47
114:K1:39:DC:H2'	114:K1:40:DT:H72	1.97	0.47
133:LA:7:DC:H2'	133:LA:8:DT:H72	1.97	0.47
140:M7:9:DC:H2'	140:M7:10:DT:H72	1.97	0.47
143:MA:15:DC:H2'	143:MA:16:DT:H72	1.97	0.47
167:P3:23:DC:H2'	167:P3:24:DT:H72	1.97	0.47
190:R9:28:DG:H2''	190:R9:29:DC:O5'	2.13	0.47
231:W5:14:DC:H2'	231:W5:15:DT:H72	1.97	0.47
2:A2:21:DC:H2'	2:A2:22:DT:H72	1.97	0.47
7:A7:37:DC:H2'	7:A7:38:DT:H72	1.97	0.47
8:A8:22:DC:H2'	8:A8:23:DT:H72	1.97	0.47
11:AB:61:DG:H2''	11:AB:62:DC:O5'	2.13	0.47
11:AB:115:DC:H2'	11:AB:116:DT:H72	1.97	0.47
11:AB:175:DC:H2'	11:AB:176:DT:H72	1.97	0.47
11:AB:205:DC:H2'	11:AB:206:DT:H72	1.97	0.47
11:AB:256:DC:H2'	11:AB:257:DT:H72	1.97	0.47
11:AB:299:DC:H2'	11:AB:300:DT:H72	1.97	0.47
11:AB:387:DC:H2'	11:AB:388:DT:H72	1.97	0.47
11:AB:427:DG:H2''	11:AB:428:DC:O5'	2.13	0.47
11:AB:448:DC:H2'	11:AB:449:DT:H72	1.97	0.47
11:AB:519:DC:H2'	11:AB:520:DT:H72	1.97	0.47
11:AB:536:DG:H2''	11:AB:537:DC:O5'	2.13	0.47
11:AB:559:DC:H2'	11:AB:560:DT:H72	1.97	0.47
11:AB:661:DG:H2''	11:AB:662:DC:O5'	2.14	0.47
11:AB:831:DC:H2'	11:AB:832:DT:H72	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:841:DC:H2'	11:AB:842:DT:H72	1.97	0.47
11:AB:902:DC:H2'	11:AB:903:DT:H72	1.97	0.47
11:AB:1041:DC:H2'	11:AB:1042:DT:H72	1.97	0.47
11:AB:1054:DC:H2'	11:AB:1055:DT:H72	1.97	0.47
11:AB:1162:DC:H2'	11:AB:1163:DT:H72	1.97	0.47
11:AB:1249:DC:H2'	11:AB:1250:DT:H72	1.97	0.47
11:AB:1306:DC:H2'	11:AB:1307:DT:H72	1.97	0.47
11:AB:1387:DC:H2'	11:AB:1388:DT:H72	1.97	0.47
11:AB:1436:DC:H2'	11:AB:1437:DT:H72	1.97	0.47
11:AB:1771:DC:H2'	11:AB:1772:DT:H72	1.97	0.47
11:AB:1893:DC:H2'	11:AB:1894:DT:H72	1.97	0.47
11:AB:1915:DC:H2'	11:AB:1916:DT:H72	1.97	0.47
11:AB:1932:DC:H2'	11:AB:1933:DT:H72	1.97	0.47
11:AB:2059:DC:H2'	11:AB:2060:DT:H72	1.97	0.47
11:AB:2242:DC:H2'	11:AB:2243:DT:H72	1.97	0.47
11:AB:2253:DC:H2'	11:AB:2254:DT:H72	1.97	0.47
11:AB:2383:DC:H2'	11:AB:2384:DT:H72	1.97	0.47
11:AB:2425:DC:H2'	11:AB:2426:DT:H72	1.97	0.47
11:AB:2443:DT:H72	11:AB:5366:DC:H2'	1.97	0.47
11:AB:2535:DC:H2'	11:AB:2536:DT:H72	1.97	0.47
11:AB:2645:DC:H2'	11:AB:2646:DT:H72	1.97	0.47
11:AB:2647:DC:H2'	11:AB:2648:DT:H72	1.97	0.47
11:AB:2881:DC:H2'	11:AB:2882:DT:H72	1.97	0.47
11:AB:2960:DC:H2'	11:AB:2961:DT:H72	1.97	0.47
11:AB:2972:DC:H2'	11:AB:2973:DT:H72	1.97	0.47
11:AB:3011:DC:H2'	11:AB:3012:DT:H72	1.97	0.47
11:AB:3053:DC:H2'	11:AB:3054:DT:H72	1.97	0.47
11:AB:3143:DC:H2'	11:AB:3144:DT:H72	1.97	0.47
11:AB:3284:DC:H2'	11:AB:3285:DT:H72	1.97	0.47
11:AB:3294:DC:H2'	11:AB:3295:DT:H72	1.97	0.47
11:AB:3616:DC:H2'	11:AB:3617:DT:H72	1.97	0.47
11:AB:3910:DC:H2'	11:AB:3911:DT:H72	1.97	0.47
11:AB:3938:DC:H2'	11:AB:3939:DT:H72	1.97	0.47
11:AB:3950:DC:H2'	11:AB:3951:DT:H72	1.97	0.47
11:AB:4005:DC:H2'	11:AB:4006:DT:H72	1.97	0.47
11:AB:4061:DG:H2''	11:AB:4062:DC:O5'	2.13	0.47
11:AB:4146:DC:H2'	11:AB:4147:DT:H72	1.97	0.47
11:AB:4159:DC:H2'	11:AB:4160:DT:H72	1.97	0.47
11:AB:4203:DC:H2'	11:AB:4204:DT:H72	1.97	0.47
11:AB:4362:DC:H2'	11:AB:4363:DT:H72	1.97	0.47
11:AB:4373:DC:H2'	11:AB:4374:DT:H72	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4401:DC:H2'	11:AB:4402:DT:H72	1.97	0.47
11:AB:4500:DC:H2'	11:AB:4501:DT:H72	1.97	0.47
11:AB:4569:DC:H2'	11:AB:4570:DT:H72	1.97	0.47
11:AB:4719:DC:H2'	11:AB:4720:DT:H72	1.97	0.47
11:AB:4827:DC:H2'	11:AB:4828:DT:H72	1.97	0.47
11:AB:4829:DC:H2'	11:AB:4830:DT:H72	1.97	0.47
11:AB:5045:DG:H2''	11:AB:5046:DC:O5'	2.13	0.47
11:AB:5091:DC:H2'	11:AB:5092:DT:H72	1.97	0.47
11:AB:5119:DG:H2''	11:AB:5120:DC:O5'	2.14	0.47
11:AB:5302:DC:H2'	11:AB:5303:DT:H72	1.97	0.47
11:AB:5380:DC:H2'	11:AB:5381:DT:H72	1.97	0.47
11:AB:5461:DC:H2'	11:AB:5462:DT:H72	1.97	0.47
11:AB:5789:DC:H2'	11:AB:5790:DT:H72	1.97	0.47
11:AB:5828:DC:H2'	11:AB:5829:DT:H72	1.97	0.47
11:AB:5936:DC:H2'	11:AB:5937:DT:H72	1.97	0.47
11:AB:6155:DC:H2'	11:AB:6156:DT:H72	1.97	0.47
11:AB:6190:DC:H2'	11:AB:6191:DT:H72	1.97	0.47
11:AB:6219:DC:H2'	11:AB:6220:DT:H72	1.97	0.47
11:AB:6223:DG:H2''	11:AB:6224:DC:O5'	2.14	0.47
11:AB:6395:DC:H2'	11:AB:6396:DT:H72	1.97	0.47
11:AB:6706:DC:H2'	11:AB:6707:DT:H72	1.97	0.47
11:AB:6736:DC:H2'	11:AB:6737:DT:H72	1.97	0.47
11:AB:6909:DC:H2'	11:AB:6910:DT:H72	1.97	0.47
11:AB:6978:DC:H2'	11:AB:6979:DT:H72	1.97	0.47
11:AB:7118:DC:H2'	11:AB:7119:DT:H72	1.97	0.47
11:AB:7139:DC:H2'	11:AB:7140:DT:H72	1.97	0.47
22:B9:20:DC:H2'	22:B9:21:DT:H72	1.97	0.47
31:C7:17:DC:H2'	31:C7:18:DT:H72	1.97	0.47
38:D2:14:DG:H2''	38:D2:15:DC:O5'	2.13	0.47
51:E5:26:DC:H2'	51:E5:27:DT:H72	1.97	0.47
58:ED:17:DC:H2'	58:ED:18:DT:H72	1.97	0.47
60:F2:29:DC:H2'	60:F2:30:DT:H72	1.97	0.47
62:F5:7:DC:H2'	62:F5:8:DT:H72	1.97	0.47
64:F7:7:DC:H2'	64:F7:8:DT:H72	1.97	0.47
83:H3:2:DC:H2'	83:H3:3:DT:H72	1.97	0.47
84:H5:36:DC:H2'	84:H5:37:DT:H72	1.97	0.47
85:H6:17:DG:H2''	85:H6:18:DC:O5'	2.13	0.47
89:HA:33:DC:H2'	89:HA:34:DT:H72	1.97	0.47
94:I3:55:DG:H2''	94:I3:56:DC:O5'	2.13	0.47
97:I7:28:DC:H2'	97:I7:29:DT:H72	1.97	0.47
104:J2:3:DG:H2''	104:J2:4:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
104:J2:30:DC:H2'	104:J2:31:DT:H72	1.97	0.47
106:J5:15:DT:H72	196:S5:21:DC:H2'	1.97	0.47
114:K1:8:DC:H2'	114:K1:9:DT:H72	1.97	0.47
117:K5:13:DC:H2'	117:K5:14:DT:H72	1.97	0.47
121:K9:21:DC:H2'	121:K9:22:DT:H72	1.97	0.47
122:KA:42:DC:H2'	122:KA:43:DT:H72	1.97	0.47
141:M8:19:DC:H2'	141:M8:20:DT:H72	1.97	0.47
160:O7:21:DC:H2'	160:O7:22:DT:H72	1.97	0.47
171:P8:12:DC:H2'	171:P8:13:DT:H72	1.97	0.47
174:PC:8:DC:H2'	174:PC:9:DT:H72	1.97	0.47
178:Q5:22:DC:H2'	178:Q5:23:DT:H72	1.97	0.47
186:R3:15:DC:H2'	186:R3:16:DT:H72	1.97	0.47
206:T7:3:DC:H2'	206:T7:4:DT:H72	1.97	0.47
213:U3:20:DC:H2'	213:U3:21:DT:H72	1.97	0.47
214:U5:18:DC:H2'	214:U5:19:DT:H72	1.97	0.47
220:UD:1:DC:H2'	220:UD:2:DT:H72	1.97	0.47
220:UD:10:DC:H2'	220:UD:11:DT:H72	1.97	0.47
221:V2:1:DC:H2'	221:V2:2:DT:H72	1.97	0.47
227:VA:27:DC:H2'	227:VA:28:DT:H72	1.97	0.47
236:X5:5:DG:H2'	236:X5:6:DC:O5'	2.13	0.47
236:X5:7:DC:H2'	236:X5:8:DT:H72	1.97	0.47
6:A6:14:DC:H2'	6:A6:15:DT:H72	1.97	0.47
11:AB:128:DC:H2'	11:AB:129:DT:H72	1.97	0.47
11:AB:280:DC:H2'	11:AB:281:DT:H72	1.97	0.47
11:AB:322:DC:H2'	11:AB:323:DT:H72	1.97	0.47
11:AB:343:DC:H2'	11:AB:344:DT:H72	1.97	0.47
11:AB:529:DC:H2'	11:AB:530:DT:H72	1.97	0.47
11:AB:712:DC:H2'	11:AB:713:DT:H72	1.97	0.47
11:AB:769:DC:H2'	11:AB:770:DT:H72	1.97	0.47
11:AB:782:DC:H2'	11:AB:783:DT:H72	1.97	0.47
11:AB:889:DC:H2'	11:AB:890:DT:H72	1.97	0.47
11:AB:1065:DC:H2'	11:AB:1066:DT:H72	1.97	0.47
11:AB:1169:DT:H72	11:AB:6338:DC:H2'	1.97	0.47
11:AB:1210:DC:H2'	11:AB:1211:DT:H72	1.97	0.47
11:AB:1277:DC:H2'	11:AB:1278:DT:H72	1.97	0.47
11:AB:1285:DC:H2'	11:AB:1286:DT:H72	1.97	0.47
11:AB:1495:DC:H2'	11:AB:1496:DT:H72	1.97	0.47
11:AB:1600:DC:H2'	11:AB:1601:DT:H72	1.97	0.47
11:AB:1630:DC:H2'	11:AB:1631:DT:H72	1.97	0.47
11:AB:1743:DC:H2'	11:AB:1744:DT:H72	1.97	0.47
11:AB:1884:DC:H2'	11:AB:1885:DT:H72	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2224:DC:H2'	11:AB:2225:DT:H72	1.97	0.47
11:AB:2317:DC:H2'	11:AB:2318:DT:H72	1.97	0.47
11:AB:2658:DC:H2'	11:AB:2659:DT:H72	1.97	0.47
11:AB:3344:DC:H2'	11:AB:3345:DT:H72	1.97	0.47
11:AB:3359:DC:H2'	11:AB:3360:DT:H72	1.97	0.47
11:AB:3919:DC:H2'	11:AB:3920:DT:H72	1.97	0.47
11:AB:4012:DT:H72	11:AB:4347:DC:H2'	1.97	0.47
11:AB:4039:DC:H2'	11:AB:4040:DT:H72	1.97	0.47
11:AB:4690:DC:H2'	11:AB:4691:DT:H72	1.97	0.47
11:AB:4840:DC:H2'	11:AB:4841:DT:H72	1.97	0.47
11:AB:4865:DG:H2''	11:AB:4866:DC:O5'	2.13	0.47
11:AB:4888:DC:H2'	11:AB:4889:DT:H72	1.97	0.47
11:AB:5589:DC:H2'	11:AB:5590:DT:H72	1.97	0.47
11:AB:5678:DC:H2'	11:AB:5679:DT:H72	1.97	0.47
11:AB:6025:DC:H2'	11:AB:6026:DT:H72	1.97	0.47
11:AB:6410:DC:H2'	11:AB:6411:DT:H72	1.97	0.47
11:AB:6470:DC:H2'	11:AB:6471:DT:H72	1.97	0.47
11:AB:6486:DC:H2'	11:AB:6487:DT:H72	1.97	0.47
11:AB:6538:DC:H2'	11:AB:6539:DT:H72	1.97	0.47
11:AB:6551:DC:H2'	11:AB:6552:DT:H72	1.97	0.47
11:AB:6618:DC:H2'	11:AB:6619:DT:H72	1.97	0.47
11:AB:7000:DC:H2'	11:AB:7001:DT:H72	1.97	0.47
11:AB:7045:DC:H2'	11:AB:7046:DT:H72	1.97	0.47
11:AB:7131:DC:H2'	11:AB:7132:DT:H72	1.97	0.47
11:AB:7147:DC:H2'	11:AB:7148:DT:H72	1.97	0.47
11:AB:7219:DC:H2'	11:AB:7220:DT:H72	1.97	0.47
21:B8:3:DC:H2'	21:B8:4:DT:H72	1.97	0.47
27:C2:12:DC:H2'	27:C2:13:DT:H72	1.97	0.47
30:C6:17:DG:H2''	30:C6:18:DC:O5'	2.13	0.47
30:C6:19:DC:H2'	30:C6:20:DT:H72	1.97	0.47
30:C6:31:DG:H2''	30:C6:32:DC:O5'	2.13	0.47
34:CA:15:DC:H2'	34:CA:16:DT:H72	1.97	0.47
37:D1:17:DG:H2''	37:D1:18:DC:O5'	2.13	0.47
41:D6:36:DC:H2'	41:D6:37:DT:H72	1.97	0.47
41:D6:45:DC:H2'	41:D6:46:DT:H72	1.97	0.47
46:DC:9:DC:H2'	46:DC:10:DT:H72	1.97	0.47
46:DC:13:DC:H2'	57:EC:1:DT:H72	1.97	0.47
52:E6:16:DG:H2''	52:E6:17:DC:O5'	2.13	0.47
65:F8:4:DC:H2'	65:F8:5:DT:H72	1.97	0.47
74:G6:36:DC:H2'	74:G6:37:DT:H72	1.97	0.47
75:G7:6:DC:H2'	75:G7:7:DT:H72	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:H3:8:DT:H72	181:Q9:39:DC:H2'	1.97	0.47
83:H3:16:DC:H2'	83:H3:17:DT:H72	1.97	0.47
83:H3:37:DG:H2''	83:H3:38:DC:O5'	2.13	0.47
108:J7:51:DC:H2'	108:J7:52:DT:H72	1.97	0.47
139:M6:5:DC:H2'	139:M6:6:DT:H72	1.97	0.47
140:M7:13:DG:H2''	140:M7:14:DC:O5'	2.13	0.47
149:N6:3:DC:H2'	149:N6:4:DT:H72	1.97	0.47
154:NC:2:DC:H2'	154:NC:3:DT:H72	1.97	0.47
169:P6:20:DC:H2'	169:P6:21:DT:H72	1.97	0.47
170:P7:7:DC:H2'	170:P7:8:DT:H72	1.97	0.47
172:P9:17:DC:H2'	172:P9:18:DT:H72	1.97	0.47
192:RC:21:DC:H2'	192:RC:22:DT:H72	1.97	0.47
227:VA:3:DC:H2'	227:VA:4:DT:H72	1.97	0.47
230:W3:31:DC:H2'	230:W3:32:DT:H72	1.97	0.47
232:W7:25:DC:H2'	232:W7:26:DT:H72	1.97	0.47
234:W9:10:DC:H2'	234:W9:11:DT:H72	1.97	0.47
7:A7:15:DG:H2''	7:A7:16:DC:O5'	2.13	0.47
9:A9:6:DG:H1'	9:A9:7:DA:H5'	1.97	0.47
11:AB:312:DC:H2'	11:AB:313:DT:H72	1.97	0.47
11:AB:463:DC:H2'	11:AB:464:DT:H72	1.97	0.47
11:AB:505:DC:H2'	11:AB:506:DT:H72	1.97	0.47
11:AB:709:DC:H2'	11:AB:710:DT:H72	1.97	0.47
11:AB:928:DG:H2''	11:AB:929:DC:O5'	2.13	0.47
11:AB:1093:DC:H2'	11:AB:1094:DT:H72	1.97	0.47
11:AB:1150:DC:H2'	11:AB:1151:DT:H72	1.97	0.47
11:AB:1200:DG:H1'	11:AB:1201:DA:H5'	1.97	0.47
11:AB:1396:DC:H2'	11:AB:1397:DT:H72	1.97	0.47
11:AB:1420:DC:H2'	11:AB:1421:DT:H72	1.97	0.47
11:AB:1478:DC:H2'	11:AB:1479:DT:H72	1.97	0.47
11:AB:1579:DC:H2'	11:AB:1580:DT:H72	1.97	0.47
11:AB:1598:DC:H2'	11:AB:1599:DT:H72	1.97	0.47
11:AB:1602:DC:H2'	11:AB:1603:DT:H72	1.97	0.47
11:AB:1706:DG:H2''	11:AB:1707:DC:O5'	2.13	0.47
11:AB:1872:DC:H2'	11:AB:1873:DT:H72	1.97	0.47
11:AB:1994:DC:H2'	11:AB:1995:DT:H72	1.97	0.47
11:AB:2152:DC:H2'	11:AB:2153:DT:H72	1.97	0.47
11:AB:2264:DC:H2'	11:AB:2265:DT:H72	1.97	0.47
11:AB:2675:DC:H2'	11:AB:2676:DT:H72	1.97	0.47
11:AB:3113:DC:H2'	11:AB:3114:DT:H72	1.97	0.47
11:AB:3498:DC:H2'	11:AB:3499:DT:H72	1.97	0.47
11:AB:3769:DG:H2''	11:AB:3770:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4076:DG:H2''	11:AB:4077:DC:O5'	2.13	0.47
11:AB:4141:DG:H2''	11:AB:4142:DC:O5'	2.13	0.47
11:AB:4205:DC:H2'	11:AB:4206:DT:H72	1.97	0.47
11:AB:4490:DC:H2'	11:AB:4491:DT:H72	1.97	0.47
11:AB:4525:DG:H2''	11:AB:4526:DC:O5'	2.13	0.47
11:AB:4665:DG:H2''	11:AB:4666:DC:O5'	2.13	0.47
11:AB:4810:DC:H2'	11:AB:4811:DT:H72	1.97	0.47
11:AB:4948:DC:H2'	11:AB:4949:DT:H72	1.97	0.47
11:AB:5104:DC:H2'	11:AB:5105:DT:H72	1.97	0.47
11:AB:5743:DG:H1'	11:AB:5744:DA:H5'	1.97	0.47
11:AB:5750:DC:H2'	11:AB:5751:DT:H72	1.97	0.47
11:AB:5759:DC:H2'	11:AB:5760:DT:H72	1.97	0.47
11:AB:6118:DC:H2'	11:AB:6119:DT:H72	1.97	0.47
11:AB:6147:DC:H2'	11:AB:6148:DT:H72	1.97	0.47
11:AB:6224:DC:H2'	11:AB:6225:DT:H72	1.97	0.47
11:AB:6233:DA:C2'	11:AB:6234:DT:H72	2.45	0.47
11:AB:6276:DC:H2'	11:AB:6277:DT:H72	1.97	0.47
11:AB:6289:DC:H2'	11:AB:6290:DT:H72	1.97	0.47
11:AB:6547:DC:H2'	11:AB:6548:DT:H72	1.97	0.47
11:AB:6855:DC:H2'	11:AB:6856:DT:H72	1.97	0.47
11:AB:7161:DC:H2'	11:AB:7162:DT:H72	1.97	0.47
22:B9:38:DC:H2'	22:B9:39:DT:H72	1.97	0.47
49:E2:24:DC:H2'	49:E2:25:DT:H72	1.97	0.47
51:E5:12:DC:H2'	51:E5:13:DT:H72	1.97	0.47
52:E6:24:DC:H2'	52:E6:25:DT:H72	1.97	0.47
54:E8:29:DC:H2'	54:E8:30:DT:H72	1.97	0.47
82:H2:6:DC:H2'	82:H2:7:DT:H72	1.97	0.47
84:H5:25:DC:H2'	84:H5:26:DT:H72	1.97	0.47
88:H9:12:DC:H2'	88:H9:13:DT:H72	1.97	0.47
99:I9:18:DC:H2'	99:I9:19:DT:H72	1.97	0.47
113:JD:38:DG:H2''	227:VA:1:DC:O5'	2.13	0.47
119:K7:40:DC:H2'	119:K7:41:DT:H72	1.97	0.47
122:KA:36:DT:H72	226:V9:18:DC:H2'	1.97	0.47
145:MD:25:DC:H2'	145:MD:26:DT:H72	1.97	0.47
148:N5:24:DC:H2'	148:N5:25:DT:H72	1.97	0.47
176:Q2:11:DC:H2'	176:Q2:12:DT:H72	1.97	0.47
185:R2:13:DC:H2'	185:R2:14:DT:H72	1.97	0.47
197:S7:23:DG:H1'	197:S7:24:DA:H5'	1.97	0.47
220:UD:22:DC:H2'	220:UD:23:DT:H72	1.97	0.47
230:W3:48:DG:H1'	230:W3:49:DA:H5'	1.97	0.47
231:W5:13:DG:H2''	231:W5:14:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:778:DC:H2'	11:AB:779:DT:H72	1.97	0.47
11:AB:1081:DC:H2'	11:AB:1082:DT:H72	1.97	0.47
11:AB:1981:DG:H2''	11:AB:1982:DC:O5'	2.13	0.47
11:AB:2379:DG:H1'	11:AB:2380:DA:H5'	1.97	0.47
11:AB:2435:DG:H2''	11:AB:2436:DC:O5'	2.13	0.47
11:AB:2754:DG:H1'	11:AB:2755:DA:H5'	1.98	0.47
11:AB:3254:DC:H2'	11:AB:3255:DT:H72	1.97	0.47
11:AB:3665:DC:H2'	11:AB:3666:DT:H72	1.97	0.47
11:AB:3790:DG:H2''	11:AB:4463:DC:O5'	2.13	0.47
11:AB:4172:DC:H2'	11:AB:4173:DT:H72	1.97	0.47
11:AB:4645:DG:H1'	11:AB:4646:DA:H5'	1.98	0.47
11:AB:4842:DG:H2''	11:AB:4843:DC:O5'	2.13	0.47
11:AB:4920:DG:H2''	11:AB:4921:DC:O5'	2.13	0.47
11:AB:5019:DG:H2''	11:AB:5020:DC:O5'	2.13	0.47
11:AB:5242:DG:H2''	11:AB:5243:DC:O5'	2.13	0.47
11:AB:5757:DC:H2'	11:AB:5758:DT:H72	1.97	0.47
11:AB:6328:DG:H1'	11:AB:6329:DA:H5'	1.97	0.47
11:AB:6349:DG:H2''	11:AB:6350:DC:O5'	2.13	0.47
11:AB:6543:DG:H1'	11:AB:6544:DA:H5'	1.97	0.47
14:B1:34:DC:H2'	14:B1:35:DT:H72	1.96	0.47
21:B8:1:DT:H72	224:V7:22:DA:C2'	2.45	0.47
32:C8:37:DG:H1'	32:C8:38:DA:H5'	1.97	0.47
35:CC:15:DC:H2'	35:CC:16:DT:H72	1.97	0.47
37:D1:34:DC:H2'	37:D1:35:DT:H72	1.96	0.47
50:E3:4:DG:H2''	50:E3:5:DC:O5'	2.13	0.47
56:EA:20:DG:H2''	56:EA:21:DC:O5'	2.13	0.47
69:FD:46:DG:H2''	69:FD:47:DC:O5'	2.13	0.47
74:G6:22:DC:H2'	74:G6:23:DT:H72	1.97	0.47
88:H9:14:DG:H2''	88:H9:15:DC:O5'	2.13	0.47
93:I2:41:DG:H1'	93:I2:42:DA:H5'	1.97	0.47
95:I5:14:DG:H2''	138:M5:36:DC:O5'	2.13	0.47
97:I7:31:DG:H2''	97:I7:32:DC:O5'	2.13	0.47
97:I7:33:DG:H1'	97:I7:34:DA:H5'	1.97	0.47
99:I9:1:DT:H72	133:LA:22:DA:C2'	2.45	0.47
104:J2:27:DC:H2'	104:J2:28:DT:H72	1.97	0.47
107:J6:23:DC:H2'	107:J6:24:DT:H72	1.97	0.47
109:J8:2:DG:H2''	109:J8:3:DC:O5'	2.13	0.47
119:K7:39:DG:H2''	119:K7:40:DC:O5'	2.13	0.47
127:L3:4:DG:H2''	127:L3:5:DC:O5'	2.13	0.47
143:MA:43:DG:H2''	143:MA:44:DC:O5'	2.13	0.47
166:P2:11:DG:H2''	166:P2:12:DC:O5'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
166:P2:33:DC:H2'	166:P2:34:DT:H72	1.97	0.47
174:PC:12:DC:H2'	174:PC:13:DT:H72	1.97	0.47
181:Q9:22:DC:H2'	181:Q9:23:DT:H72	1.97	0.47
194:S2:29:DG:H2''	194:S2:30:DC:O5'	2.13	0.47
209:TA:34:DC:H2'	209:TA:35:DT:H72	1.97	0.47
216:U8:19:DG:H2''	216:U8:20:DC:O5'	2.13	0.47
223:V5:22:DG:H2''	223:V5:23:DC:O5'	2.13	0.47
2:A2:3:DG:H2''	2:A2:4:DC:O5'	2.13	0.46
5:A5:32:DC:H2'	5:A5:33:DT:H72	1.97	0.46
11:AB:355:DC:H2'	11:AB:356:DT:H72	1.97	0.46
11:AB:405:DG:H1'	11:AB:406:DA:H5'	1.98	0.46
11:AB:697:DA:C2'	11:AB:698:DT:H72	2.45	0.46
11:AB:1000:DC:H2'	11:AB:1001:DT:H72	1.97	0.46
11:AB:1092:DG:H2''	11:AB:1093:DC:O5'	2.13	0.46
11:AB:1116:DG:H1'	11:AB:1117:DA:H5'	1.98	0.46
11:AB:1353:DC:H2'	11:AB:1354:DT:H72	1.97	0.46
11:AB:1395:DG:H2''	11:AB:1396:DC:O5'	2.13	0.46
11:AB:1559:DG:H2''	11:AB:1560:DC:O5'	2.13	0.46
11:AB:1613:DG:H2''	11:AB:1614:DC:O5'	2.13	0.46
11:AB:1798:DG:H2''	11:AB:1799:DC:O5'	2.13	0.46
11:AB:1819:DG:H2''	11:AB:1820:DC:O5'	2.13	0.46
11:AB:2106:DG:H2''	11:AB:2107:DC:O5'	2.13	0.46
11:AB:2263:DG:H2''	11:AB:2264:DC:O5'	2.13	0.46
11:AB:2713:DG:H2''	11:AB:2714:DC:O5'	2.13	0.46
11:AB:2764:DC:H2'	11:AB:2765:DT:H72	1.97	0.46
11:AB:2897:DC:H2'	11:AB:2898:DT:H72	1.97	0.46
11:AB:3425:DC:H2'	11:AB:3426:DT:H72	1.97	0.46
11:AB:3568:DG:H2''	11:AB:3569:DC:O5'	2.13	0.46
11:AB:3720:DG:H2''	11:AB:4477:DC:O5'	2.13	0.46
11:AB:3806:DG:H2''	11:AB:3807:DC:O5'	2.13	0.46
11:AB:3977:DC:H2'	11:AB:3978:DT:H72	1.97	0.46
11:AB:4054:DA:C2'	11:AB:4055:DT:H72	2.46	0.46
11:AB:4626:DC:H2'	11:AB:4627:DT:H72	1.97	0.46
11:AB:4823:DG:H1'	11:AB:4824:DA:H5'	1.98	0.46
11:AB:4862:DC:H2'	11:AB:4863:DT:H72	1.97	0.46
11:AB:4928:DG:H2''	11:AB:4929:DC:O5'	2.13	0.46
11:AB:4996:DG:H2''	11:AB:4997:DC:O5'	2.13	0.46
11:AB:4998:DG:H2''	11:AB:4999:DC:O5'	2.13	0.46
11:AB:5059:DC:H2'	11:AB:5060:DT:H72	1.97	0.46
11:AB:5491:DC:H2'	11:AB:5492:DT:H72	1.97	0.46
11:AB:5798:DG:H2''	11:AB:5799:DC:O5'	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5963:DC:H2'	11:AB:5964:DT:H72	1.97	0.46
11:AB:6064:DG:H2''	11:AB:6065:DC:O5'	2.13	0.46
11:AB:6090:DG:H2''	11:AB:6091:DC:O5'	2.13	0.46
11:AB:6202:DC:H2'	11:AB:6203:DT:H72	1.97	0.46
11:AB:6227:DC:H2'	11:AB:6228:DT:H72	1.97	0.46
11:AB:6406:DG:H2''	11:AB:6407:DC:O5'	2.13	0.46
11:AB:6614:DC:H2'	11:AB:6615:DT:H72	1.97	0.46
11:AB:6827:DC:H2'	11:AB:6828:DT:H72	1.97	0.46
11:AB:6840:DC:H2'	11:AB:6841:DT:H72	1.97	0.46
11:AB:6903:DC:H2'	11:AB:6904:DT:H72	1.97	0.46
11:AB:6933:DG:H2''	11:AB:6934:DC:O5'	2.13	0.46
11:AB:6969:DG:H1'	11:AB:6970:DA:H5'	1.98	0.46
11:AB:7025:DG:H1'	11:AB:7026:DA:H5'	1.98	0.46
11:AB:7182:DC:H2'	11:AB:7183:DT:H72	1.97	0.46
11:AB:7241:DG:H2''	11:AB:7242:DC:O5'	2.13	0.46
18:B5:13:DG:H1'	18:B5:14:DA:H5'	1.97	0.46
29:C5:33:DG:H1'	29:C5:34:DA:H5'	1.98	0.46
31:C7:30:DG:H2''	31:C7:31:DC:O5'	2.13	0.46
39:D3:26:DG:H1'	39:D3:27:DA:H5'	1.98	0.46
43:D8:10:DC:H2'	43:D8:11:DT:H72	1.97	0.46
43:D8:35:DG:H2''	117:K5:47:DC:O5'	2.13	0.46
48:E1:32:DC:H2'	48:E1:33:DT:H72	1.97	0.46
94:I3:47:DG:H2''	94:I3:48:DC:O5'	2.13	0.46
98:I8:25:DG:H2''	98:I8:26:DC:O5'	2.13	0.46
100:IA:11:DC:H2'	100:IA:12:DT:H72	1.97	0.46
106:J5:34:DG:H1'	106:J5:35:DA:H5'	1.98	0.46
115:K2:20:DG:H2''	115:K2:21:DC:O5'	2.13	0.46
117:K5:29:DC:H2'	117:K5:30:DT:H72	1.97	0.46
120:K8:10:DG:H1'	120:K8:11:DA:H5'	1.98	0.46
125:L1:50:DG:H1'	125:L1:51:DA:H5'	1.98	0.46
126:L2:45:DG:H2''	126:L2:46:DC:O5'	2.13	0.46
130:L7:34:DG:H1'	130:L7:35:DA:H5'	1.98	0.46
134:LC:12:DG:H1'	134:LC:13:DA:H5'	1.98	0.46
138:M5:30:DC:H2'	138:M5:31:DT:H72	1.97	0.46
141:M8:27:DC:H2'	141:M8:28:DT:H72	1.97	0.46
148:N5:30:DG:H1'	148:N5:31:DA:H5'	1.97	0.46
149:N6:2:DG:H2''	149:N6:3:DC:O5'	2.13	0.46
152:N9:19:DC:H2'	152:N9:20:DT:H72	1.97	0.46
152:N9:26:DG:H2''	152:N9:27:DC:O5'	2.13	0.46
198:S8:37:DC:H2'	198:S8:38:DT:H72	1.97	0.46
200:SA:8:DG:H1'	200:SA:9:DA:H5'	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
205:T5:18:DC:H2'	205:T5:19:DT:H72	1.97	0.46
220:UD:9:DG:H2''	220:UD:10:DC:O5'	2.13	0.46
221:V2:12:DG:H1'	221:V2:13:DA:H5'	1.98	0.46
227:VA:20:DG:H2''	227:VA:21:DC:O5'	2.13	0.46
2:A2:14:DC:H2'	2:A2:15:DT:H72	1.97	0.46
10:AA:11:DG:H2''	10:AA:12:DC:O5'	2.13	0.46
11:AB:22:DG:H1'	11:AB:23:DA:H5'	1.98	0.46
11:AB:48:DC:H2'	11:AB:49:DT:H72	1.97	0.46
11:AB:118:DC:H2'	11:AB:119:DT:H72	1.97	0.46
11:AB:904:DC:H2'	11:AB:905:DT:H72	1.97	0.46
11:AB:984:DG:H1'	11:AB:985:DA:H5'	1.98	0.46
11:AB:1032:DG:H1'	11:AB:1033:DA:H5'	1.98	0.46
11:AB:1069:DA:C2'	11:AB:1070:DT:H72	2.46	0.46
11:AB:1183:DC:H2'	11:AB:1184:DT:H72	1.97	0.46
11:AB:1343:DC:H2'	11:AB:1344:DT:H72	1.97	0.46
11:AB:1466:DC:H2'	11:AB:1467:DT:H72	1.97	0.46
11:AB:1494:DG:H2''	11:AB:1495:DC:O5'	2.13	0.46
11:AB:1542:DC:H2'	11:AB:1543:DT:H72	1.97	0.46
11:AB:1655:DC:H2'	11:AB:1656:DT:H72	1.97	0.46
11:AB:1960:DC:H2'	11:AB:1961:DT:H72	1.97	0.46
11:AB:2041:DC:H2'	11:AB:2042:DT:H72	1.97	0.46
11:AB:2084:DG:H1'	11:AB:2085:DA:H5'	1.98	0.46
11:AB:2218:DG:H1'	11:AB:2219:DA:H5'	1.97	0.46
11:AB:2277:DC:H2'	11:AB:2278:DT:H72	1.97	0.46
11:AB:2398:DC:H2'	11:AB:2399:DT:H72	1.97	0.46
11:AB:2550:DG:H2''	11:AB:2551:DC:O5'	2.13	0.46
11:AB:2609:DC:H2'	11:AB:2610:DT:H72	1.97	0.46
11:AB:2638:DC:H2'	11:AB:2639:DT:H72	1.97	0.46
11:AB:2674:DG:H2''	11:AB:2675:DC:O5'	2.13	0.46
11:AB:3034:DG:H1'	11:AB:3035:DA:H5'	1.98	0.46
11:AB:3100:DG:H1'	11:AB:3101:DA:H5'	1.97	0.46
11:AB:3293:DG:H2''	11:AB:3294:DC:O5'	2.13	0.46
11:AB:3443:DC:H2'	11:AB:3444:DT:H72	1.97	0.46
11:AB:3641:DC:H2'	11:AB:3642:DT:H72	1.97	0.46
11:AB:3691:DG:H1'	11:AB:3692:DA:H5'	1.98	0.46
11:AB:4013:DC:H2'	11:AB:4014:DT:H72	1.97	0.46
11:AB:4216:DG:H2''	11:AB:4217:DC:O5'	2.13	0.46
11:AB:4502:DC:H2'	11:AB:4503:DT:H72	1.97	0.46
11:AB:4592:DC:H2'	11:AB:4593:DT:H72	1.97	0.46
11:AB:4625:DG:H2''	11:AB:4626:DC:O5'	2.13	0.46
11:AB:4647:DC:H2'	11:AB:4648:DT:H72	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4712:DC:H2'	11:AB:4713:DT:H72	1.97	0.46
11:AB:4913:DC:H2'	11:AB:4914:DT:H72	1.97	0.46
11:AB:4983:DC:H2'	11:AB:4984:DT:H72	1.97	0.46
11:AB:5075:DC:H2'	11:AB:5076:DT:H72	1.97	0.46
11:AB:5081:DG:H1'	11:AB:5082:DA:H5'	1.98	0.46
11:AB:5194:DG:H1'	11:AB:5195:DA:H5'	1.98	0.46
11:AB:5249:DG:H1'	11:AB:5250:DA:H5'	1.98	0.46
11:AB:5831:DC:H2'	11:AB:5832:DT:H72	1.97	0.46
11:AB:5840:DG:H1'	11:AB:5841:DA:H5'	1.98	0.46
11:AB:5884:DG:H2''	11:AB:5885:DC:O5'	2.13	0.46
11:AB:5946:DG:H2''	11:AB:5947:DC:O5'	2.13	0.46
11:AB:5973:DG:H1'	11:AB:5974:DA:H5'	1.98	0.46
11:AB:6284:DC:H2'	11:AB:6285:DT:H72	1.97	0.46
11:AB:6359:DC:H2'	11:AB:6360:DT:H72	1.97	0.46
11:AB:6464:DC:H2'	11:AB:6465:DT:H72	1.97	0.46
11:AB:6555:DC:H2'	11:AB:6556:DT:H72	1.97	0.46
11:AB:6602:DC:H2'	11:AB:6603:DT:H72	1.97	0.46
11:AB:6768:DG:H1'	11:AB:6769:DA:H5'	1.98	0.46
11:AB:7114:DC:H2'	11:AB:7115:DT:H72	1.97	0.46
11:AB:7123:DG:H1'	11:AB:7124:DA:H5'	1.98	0.46
13:AD:34:DC:H2'	13:AD:35:DT:H72	1.97	0.46
29:C5:35:DG:H1'	29:C5:36:DA:H5'	1.98	0.46
32:C8:48:DC:H2'	32:C8:49:DT:H72	1.97	0.46
39:D3:32:DG:H2''	39:D3:33:DC:O5'	2.13	0.46
40:D5:11:DA:C2'	40:D5:12:DT:H72	2.46	0.46
43:D8:25:DG:H2''	43:D8:26:DC:O5'	2.13	0.46
54:E8:18:DC:H2'	54:E8:19:DT:H72	1.97	0.46
56:EA:8:DG:H1'	56:EA:9:DA:H5'	1.98	0.46
61:F3:13:DG:H1'	61:F3:14:DA:H5'	1.98	0.46
73:G5:3:DC:H2'	73:G5:4:DT:H72	1.97	0.46
73:G5:8:DG:H1'	73:G5:9:DA:H5'	1.98	0.46
76:G8:4:DG:H2''	109:J8:15:DC:O5'	2.13	0.46
79:GC:14:DG:H2''	98:I8:31:DC:O5'	2.13	0.46
82:H2:44:DC:H2'	82:H2:45:DT:H72	1.97	0.46
93:I2:15:DG:H1'	93:I2:16:DA:H5'	1.98	0.46
93:I2:25:DG:H2''	93:I2:26:DC:O5'	2.13	0.46
109:J8:49:DG:H1'	109:J8:50:DA:H5'	1.97	0.46
115:K2:25:DA:C2'	115:K2:26:DT:H72	2.46	0.46
122:KA:6:DC:H2'	122:KA:7:DT:H72	1.97	0.46
126:L2:8:DC:H2'	126:L2:9:DT:H72	1.97	0.46
126:L2:28:DC:O5'	224:V7:16:DG:H2''	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
126:L2:48:DG:H1'	126:L2:49:DA:H5'	1.97	0.46
130:L7:6:DG:H1'	130:L7:7:DA:H5'	1.98	0.46
153:NA:22:DG:H1'	153:NA:23:DA:H5'	1.98	0.46
158:O5:51:DC:H2'	158:O5:52:DT:H72	1.97	0.46
159:O6:16:DC:H2'	159:O6:17:DT:H72	1.97	0.46
164:OC:11:DG:H2''	164:OC:12:DC:O5'	2.13	0.46
166:P2:9:DG:H2''	166:P2:10:DC:O5'	2.13	0.46
168:P5:3:DG:H2''	168:P5:4:DC:O5'	2.13	0.46
172:P9:22:DC:H2'	172:P9:23:DT:H72	1.97	0.46
175:PD:21:DG:H1'	175:PD:22:DA:H5'	1.98	0.46
181:Q9:7:DC:H2'	181:Q9:8:DT:H72	1.97	0.46
187:R5:27:DG:H1'	187:R5:28:DA:H5'	1.98	0.46
187:R5:39:DC:H2'	187:R5:40:DT:H72	1.97	0.46
189:R8:8:DC:H2'	189:R8:9:DT:H72	1.97	0.46
189:R8:16:DC:H2'	189:R8:17:DT:H72	1.97	0.46
191:RA:7:DG:H1'	191:RA:8:DA:H5'	1.98	0.46
195:S3:11:DC:H2'	195:S3:12:DT:H72	1.97	0.46
3:A3:1:DT:H72	50:E3:19:DA:C2'	2.46	0.46
6:A6:9:DG:H2''	6:A6:10:DC:O5'	2.13	0.46
11:AB:216:DG:H1'	11:AB:217:DA:H5'	1.98	0.46
11:AB:238:DA:C2'	11:AB:239:DT:H72	2.46	0.46
11:AB:472:DC:H2'	11:AB:473:DT:H72	1.97	0.46
11:AB:508:DA:C2'	11:AB:509:DT:H72	2.46	0.46
11:AB:558:DG:H2''	11:AB:559:DC:O5'	2.13	0.46
11:AB:655:DA:C2'	11:AB:656:DT:H72	2.46	0.46
11:AB:764:DC:H2'	11:AB:765:DT:H72	1.97	0.46
11:AB:877:DC:H2'	11:AB:878:DT:H72	1.97	0.46
11:AB:932:DC:H2'	11:AB:933:DT:H72	1.97	0.46
11:AB:1146:DG:H2''	11:AB:1147:DC:O5'	2.13	0.46
11:AB:1323:DA:C2'	11:AB:1324:DT:H72	2.46	0.46
11:AB:1485:DC:H2'	11:AB:1486:DT:H72	1.97	0.46
11:AB:1867:DC:H2'	11:AB:1868:DT:H72	1.97	0.46
11:AB:1999:DA:C2'	11:AB:2000:DT:H72	2.46	0.46
11:AB:2119:DG:H1'	11:AB:2120:DA:H5'	1.98	0.46
11:AB:2120:DA:C2'	11:AB:2121:DT:H72	2.46	0.46
11:AB:2200:DA:C2'	11:AB:2201:DT:H72	2.46	0.46
11:AB:2256:DA:C2'	11:AB:2257:DT:H72	2.46	0.46
11:AB:2326:DG:H2''	11:AB:2327:DC:O5'	2.13	0.46
11:AB:2392:DC:H2'	11:AB:2393:DT:H72	1.97	0.46
11:AB:2407:DA:C2'	11:AB:2408:DT:H72	2.46	0.46
11:AB:2428:DA:C2'	11:AB:2429:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2506:DA:C2'	11:AB:2507:DT:H72	2.46	0.46
11:AB:2664:DC:H2'	11:AB:2665:DT:H72	1.97	0.46
11:AB:2751:DA:C2'	11:AB:2752:DT:H72	2.46	0.46
11:AB:2913:DA:C2'	11:AB:2914:DT:H72	2.46	0.46
11:AB:3133:DG:H1'	11:AB:3134:DA:H5'	1.98	0.46
11:AB:3263:DC:H2'	11:AB:3264:DT:H72	1.97	0.46
11:AB:3301:DC:H2'	11:AB:3302:DT:H72	1.97	0.46
11:AB:3464:DC:H2'	11:AB:3465:DT:H72	1.97	0.46
11:AB:3473:DG:H2''	11:AB:3474:DC:O5'	2.13	0.46
11:AB:3485:DC:H2'	11:AB:3486:DT:H72	1.97	0.46
11:AB:3566:DG:H2''	11:AB:3567:DC:O5'	2.13	0.46
11:AB:3872:DC:H2'	11:AB:3873:DT:H72	1.97	0.46
11:AB:3925:DG:H1'	11:AB:3926:DA:H5'	1.97	0.46
11:AB:4032:DA:C2'	11:AB:4033:DT:H72	2.46	0.46
11:AB:4485:DG:H1'	11:AB:4486:DA:H5'	1.97	0.46
11:AB:4494:DC:H2'	11:AB:4495:DT:H72	1.97	0.46
11:AB:4733:DC:H2'	11:AB:4734:DT:H72	1.97	0.46
11:AB:5234:DG:H1'	11:AB:5235:DA:H5'	1.98	0.46
11:AB:5239:DC:H2'	11:AB:5240:DT:H72	1.97	0.46
11:AB:5325:DG:H1'	11:AB:5326:DA:H5'	1.98	0.46
11:AB:5452:DA:C2'	11:AB:5453:DT:H72	2.46	0.46
11:AB:5527:DC:H2'	11:AB:5528:DT:H72	1.97	0.46
11:AB:5615:DC:H2'	11:AB:5616:DT:H72	1.97	0.46
11:AB:5663:DC:H2'	11:AB:5664:DT:H72	1.97	0.46
11:AB:5712:DA:C2'	11:AB:5713:DT:H72	2.46	0.46
11:AB:5916:DA:C2'	11:AB:5917:DT:H72	2.45	0.46
11:AB:6053:DC:H2'	11:AB:6054:DT:H72	1.97	0.46
11:AB:6113:DC:H2'	11:AB:6114:DT:H72	1.97	0.46
11:AB:6533:DC:H2'	11:AB:6534:DT:H72	1.97	0.46
11:AB:6688:DC:H2'	11:AB:6689:DT:H72	1.97	0.46
11:AB:6835:DC:H2'	11:AB:6836:DT:H72	1.97	0.46
14:B1:15:DA:H5'	106:J5:21:DG:H1'	1.98	0.46
17:B4:14:DG:H1'	17:B4:15:DA:H5'	1.98	0.46
29:C5:36:DA:C2'	29:C5:37:DT:H72	2.46	0.46
32:C8:28:DG:H2''	32:C8:29:DC:O5'	2.13	0.46
36:CD:15:DA:H5'	156:O2:42:DG:H1'	1.98	0.46
37:D1:1:DC:H2'	37:D1:2:DT:H72	1.97	0.46
37:D1:37:DC:H2'	37:D1:38:DT:H72	1.97	0.46
39:D3:6:DC:H2'	39:D3:7:DT:H72	1.97	0.46
44:D9:18:DG:H2''	44:D9:19:DC:O5'	2.13	0.46
49:E2:24:DC:O5'	222:V3:25:DG:H2''	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:EC:16:DC:H2'	57:EC:17:DT:H72	1.97	0.46
73:G5:9:DA:C2'	73:G5:10:DT:H72	2.46	0.46
73:G5:14:DG:H1'	117:K5:33:DA:H5'	1.98	0.46
76:G8:12:DG:H1'	76:G8:13:DA:H5'	1.98	0.46
77:G9:1:DC:H2'	77:G9:2:DT:H72	1.97	0.46
85:H6:24:DC:H2'	85:H6:25:DT:H72	1.97	0.46
88:H9:10:DG:H2''	133:LA:18:DC:O5'	2.13	0.46
95:I5:16:DA:C2'	95:I5:17:DT:H72	2.46	0.46
104:J2:37:DC:H2'	104:J2:38:DT:H72	1.97	0.46
107:J6:30:DA:C2'	107:J6:31:DT:H72	2.46	0.46
109:J8:29:DG:H1'	109:J8:30:DA:H5'	1.98	0.46
110:J9:21:DC:H2'	110:J9:22:DT:H72	1.97	0.46
114:K1:12:DA:C2'	114:K1:13:DT:H72	2.46	0.46
122:KA:46:DC:H2'	122:KA:47:DT:H72	1.97	0.46
125:L1:37:DC:H2'	125:L1:38:DT:H72	1.97	0.46
130:L7:56:DG:H1'	130:L7:57:DA:H5'	1.98	0.46
131:L8:11:DG:H1'	131:L8:12:DA:H5'	1.98	0.46
142:M9:11:DA:C2'	142:M9:12:DT:H72	2.46	0.46
147:N3:29:DC:O5'	204:T3:14:DG:H2''	2.13	0.46
152:N9:1:DT:H72	191:RA:31:DA:C2'	2.46	0.46
152:N9:16:DA:C2'	152:N9:17:DT:H72	2.46	0.46
154:NC:4:DG:H1'	154:NC:5:DA:H5'	1.98	0.46
154:NC:24:DG:H2''	192:RC:21:DC:O5'	2.13	0.46
156:O2:11:DG:H2''	156:O2:12:DC:O5'	2.13	0.46
159:O6:20:DG:H1'	159:O6:21:DA:H5'	1.97	0.46
167:P3:33:DC:H2'	167:P3:34:DT:H72	1.97	0.46
168:P5:7:DG:H1'	168:P5:8:DA:H5'	1.98	0.46
180:Q8:24:DG:H1'	180:Q8:25:DA:H5'	1.98	0.46
182:QA:20:DG:H2''	182:QA:21:DC:O5'	2.13	0.46
195:S3:3:DC:H2'	195:S3:4:DT:H72	1.97	0.46
197:S7:21:DC:H2'	197:S7:22:DT:H72	1.97	0.46
212:U2:5:DC:H2'	212:U2:6:DT:H72	1.97	0.46
215:U7:11:DG:H2''	215:U7:12:DC:O5'	2.13	0.46
217:U9:12:DC:H2'	217:U9:13:DT:H72	1.97	0.46
225:V8:11:DG:H1'	225:V8:12:DA:H5'	1.98	0.46
238:X9:5:DC:H2'	238:X9:6:DT:H72	1.97	0.46
1:A1:37:DA:C2'	1:A1:38:DT:H72	2.46	0.46
2:A2:9:DA:C2'	2:A2:10:DT:H72	2.46	0.46
4:A4:19:DA:C2'	4:A4:20:DT:H72	2.46	0.46
7:A7:12:DA:C2'	7:A7:13:DT:H72	2.46	0.46
11:AB:12:DA:C2'	11:AB:13:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:158:DA:C2'	11:AB:159:DT:H72	2.46	0.46
11:AB:351:DG:H1'	11:AB:352:DA:H5'	1.98	0.46
11:AB:538:DC:H2'	11:AB:539:DT:H72	1.97	0.46
11:AB:642:DG:H2''	11:AB:643:DC:O5'	2.13	0.46
11:AB:733:DA:C2'	11:AB:734:DT:H72	2.46	0.46
11:AB:746:DG:H1'	11:AB:747:DA:H5'	1.98	0.46
11:AB:807:DG:H1'	11:AB:808:DA:H5'	1.98	0.46
11:AB:811:DA:C2'	11:AB:812:DT:H72	2.46	0.46
11:AB:828:DG:H1'	11:AB:829:DA:H5'	1.98	0.46
11:AB:919:DC:H2'	11:AB:920:DT:H72	1.97	0.46
11:AB:921:DG:H1'	11:AB:922:DA:H5'	1.97	0.46
11:AB:1078:DC:H2'	11:AB:1079:DT:H72	1.97	0.46
11:AB:1084:DA:C2'	11:AB:1085:DT:H72	2.46	0.46
11:AB:1194:DG:H1'	11:AB:1195:DA:H5'	1.98	0.46
11:AB:1308:DA:C2'	11:AB:1309:DT:H72	2.46	0.46
11:AB:1401:DA:C2'	11:AB:1402:DT:H72	2.46	0.46
11:AB:1404:DC:H2'	11:AB:1405:DT:H72	1.97	0.46
11:AB:1583:DA:C2'	11:AB:6122:DT:H72	2.46	0.46
11:AB:1586:DC:H2'	11:AB:1587:DT:H72	1.97	0.46
11:AB:1626:DC:H2'	11:AB:1627:DT:H72	1.97	0.46
11:AB:1757:DG:H1'	11:AB:1758:DA:H5'	1.98	0.46
11:AB:1963:DA:C2'	11:AB:1964:DT:H72	2.46	0.46
11:AB:2092:DA:C2'	11:AB:2093:DT:H72	2.46	0.46
11:AB:2251:DC:H2'	11:AB:2252:DT:H72	1.97	0.46
11:AB:2350:DA:C2'	11:AB:2351:DT:H72	2.46	0.46
11:AB:2546:DA:C2'	11:AB:2547:DT:H72	2.46	0.46
11:AB:2772:DA:C2'	11:AB:2773:DT:H72	2.46	0.46
11:AB:3007:DA:C2'	11:AB:3008:DT:H72	2.46	0.46
11:AB:3047:DC:H2'	11:AB:3048:DT:H72	1.97	0.46
11:AB:3074:DA:C2'	11:AB:3075:DT:H72	2.46	0.46
11:AB:3137:DA:C2'	11:AB:3138:DT:H72	2.46	0.46
11:AB:3175:DG:H1'	11:AB:3176:DA:H5'	1.98	0.46
11:AB:3176:DA:C2'	11:AB:3177:DT:H72	2.46	0.46
11:AB:3220:DG:H1'	11:AB:3221:DA:H5'	1.98	0.46
11:AB:3326:DA:C2'	11:AB:3327:DT:H72	2.46	0.46
11:AB:3328:DA:C2'	11:AB:3329:DT:H72	2.46	0.46
11:AB:3348:DA:C2'	11:AB:3349:DT:H72	2.46	0.46
11:AB:3352:DC:H2'	11:AB:3353:DT:H72	1.97	0.46
11:AB:3438:DA:C2'	11:AB:3439:DT:H72	2.46	0.46
11:AB:3456:DG:H2''	11:AB:3457:DC:O5'	2.13	0.46
11:AB:3482:DA:C2'	11:AB:3483:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3545:DA:C2'	11:AB:3546:DT:H72	2.46	0.46
11:AB:3570:DA:C2'	11:AB:3571:DT:H72	2.46	0.46
11:AB:3785:DA:C2'	11:AB:3786:DT:H72	2.46	0.46
11:AB:3787:DA:C2'	11:AB:3788:DT:H72	2.46	0.46
11:AB:3857:DA:C2'	11:AB:3858:DT:H72	2.46	0.46
11:AB:3964:DC:H2'	11:AB:3965:DT:H72	1.97	0.46
11:AB:4189:DC:H2'	11:AB:4190:DT:H72	1.97	0.46
11:AB:4234:DA:C2'	11:AB:4235:DT:H72	2.46	0.46
11:AB:4329:DG:H1'	11:AB:4330:DA:H5'	1.97	0.46
11:AB:4391:DC:H2'	11:AB:4392:DT:H72	1.97	0.46
11:AB:4403:DA:C2'	11:AB:4404:DT:H72	2.46	0.46
11:AB:4446:DA:C2'	11:AB:4447:DT:H72	2.46	0.46
11:AB:4480:DG:H2''	11:AB:4481:DC:O5'	2.13	0.46
11:AB:4612:DA:C2'	11:AB:4613:DT:H72	2.46	0.46
11:AB:4675:DA:C2'	11:AB:4676:DT:H72	2.46	0.46
11:AB:4761:DA:C2'	11:AB:4762:DT:H72	2.46	0.46
11:AB:4767:DA:C2'	11:AB:4768:DT:H72	2.46	0.46
11:AB:4803:DA:C2'	11:AB:4804:DT:H72	2.46	0.46
11:AB:4902:DG:H2''	11:AB:4903:DC:O5'	2.13	0.46
11:AB:4932:DA:C2'	11:AB:4933:DT:H72	2.46	0.46
11:AB:4964:DG:H1'	11:AB:4965:DA:H5'	1.98	0.46
11:AB:5017:DG:H2''	11:AB:5018:DC:O5'	2.13	0.46
11:AB:5084:DG:H2''	11:AB:5085:DC:O5'	2.13	0.46
11:AB:5221:DA:C2'	11:AB:5222:DT:H72	2.46	0.46
11:AB:5476:DC:H2'	11:AB:5477:DT:H72	1.97	0.46
11:AB:5627:DA:C2'	11:AB:5628:DT:H72	2.46	0.46
11:AB:5631:DC:H2'	11:AB:5632:DT:H72	1.97	0.46
11:AB:5689:DA:C2'	11:AB:5690:DT:H72	2.46	0.46
11:AB:5825:DC:H2'	11:AB:5826:DT:H72	1.97	0.46
11:AB:5866:DG:H2''	11:AB:5867:DC:O5'	2.13	0.46
11:AB:5970:DA:C2'	11:AB:5971:DT:H72	2.46	0.46
11:AB:6022:DG:H1'	11:AB:6023:DA:H5'	1.98	0.46
11:AB:6060:DA:C2'	11:AB:6061:DT:H72	2.46	0.46
11:AB:6088:DG:H1'	11:AB:6089:DA:H5'	1.98	0.46
11:AB:6093:DA:C2'	11:AB:6094:DT:H72	2.46	0.46
11:AB:6173:DA:C2'	11:AB:6174:DT:H72	2.46	0.46
11:AB:6316:DA:C2'	11:AB:6317:DT:H72	2.46	0.46
11:AB:6381:DC:H2'	11:AB:6382:DT:H72	1.97	0.46
11:AB:6436:DC:H2'	11:AB:6437:DT:H72	1.97	0.46
11:AB:6501:DA:C2'	11:AB:6502:DT:H72	2.46	0.46
11:AB:6523:DA:C2'	11:AB:6524:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6560:DA:C2'	11:AB:6561:DT:H72	2.46	0.46
11:AB:6686:DA:C2'	11:AB:6687:DT:H72	2.46	0.46
11:AB:6959:DA:C2'	11:AB:6960:DT:H72	2.46	0.46
11:AB:7052:DC:H2'	11:AB:7053:DT:H72	1.97	0.46
11:AB:7203:DA:C2'	11:AB:7204:DT:H72	2.46	0.46
11:AB:7231:DG:H2''	11:AB:7232:DC:O5'	2.13	0.46
12:AC:11:DA:C2'	12:AC:12:DT:H72	2.46	0.46
15:B2:11:DA:C2'	15:B2:12:DT:H72	2.46	0.46
25:BD:11:DA:C2'	25:BD:12:DT:H72	2.46	0.46
26:C1:1:DC:O5'	73:G5:24:DG:H2''	2.14	0.46
28:C3:17:DA:H5'	204:T3:35:DG:H1'	1.98	0.46
29:C5:29:DA:C2'	29:C5:30:DT:H72	2.46	0.46
41:D6:1:DG:H1'	41:D6:2:DA:H5'	1.98	0.46
41:D6:30:DA:C2'	41:D6:31:DT:H72	2.46	0.46
41:D6:35:DG:H1'	181:Q9:26:DA:H5'	1.98	0.46
44:D9:5:DA:C2'	44:D9:6:DT:H72	2.46	0.46
52:E6:8:DA:H5'	206:T7:38:DG:H1'	1.98	0.46
54:E8:6:DC:H2'	54:E8:7:DT:H72	1.97	0.46
55:E9:8:DA:C2'	55:E9:9:DT:H72	2.46	0.46
55:E9:23:DC:H2'	55:E9:24:DT:H72	1.97	0.46
55:E9:31:DA:C2'	55:E9:32:DT:H72	2.46	0.46
58:ED:25:DA:C2'	58:ED:26:DT:H72	2.46	0.46
58:ED:34:DA:C2'	58:ED:35:DT:H72	2.46	0.46
60:F2:7:DC:H2'	60:F2:8:DT:H72	1.97	0.46
60:F2:17:DA:C2'	60:F2:18:DT:H72	2.46	0.46
62:F5:35:DA:C2'	62:F5:36:DT:H72	2.46	0.46
62:F5:37:DA:C2'	62:F5:38:DT:H72	2.46	0.46
62:F5:43:DC:H2'	62:F5:44:DT:H72	1.97	0.46
63:F6:6:DG:H1'	63:F6:7:DA:H5'	1.98	0.46
67:FA:9:DA:C2'	67:FA:10:DT:H72	2.46	0.46
67:FA:19:DC:H2'	67:FA:20:DT:H72	1.97	0.46
74:G6:27:DA:C2'	74:G6:28:DT:H72	2.46	0.46
75:G7:19:DC:O5'	197:S7:10:DG:H2''	2.13	0.46
82:H2:14:DG:H1'	82:H2:15:DA:H5'	1.98	0.46
85:H6:1:DA:H5'	160:O7:26:DG:H1'	1.98	0.46
86:H7:15:DA:C2'	86:H7:16:DT:H72	2.46	0.46
88:H9:8:DA:C2'	88:H9:9:DT:H72	2.46	0.46
89:HA:30:DA:C2'	89:HA:31:DT:H72	2.46	0.46
90:HC:19:DC:H2'	90:HC:20:DT:H72	1.97	0.46
91:HD:15:DG:H1'	91:HD:16:DA:H5'	1.98	0.46
92:I1:15:DG:H1'	92:I1:16:DA:H5'	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
94:I3:37:DG:H2''	94:I3:38:DC:O5'	2.13	0.46
98:I8:19:DA:C2'	98:I8:20:DT:H72	2.46	0.46
105:J3:11:DA:C2'	105:J3:12:DT:H72	2.46	0.46
109:J8:4:DA:C2'	109:J8:5:DT:H72	2.46	0.46
109:J8:20:DA:C2'	109:J8:21:DT:H72	2.46	0.46
110:J9:20:DG:H2''	110:J9:21:DC:O5'	2.13	0.46
112:JC:4:DG:H2''	112:JC:5:DC:O5'	2.13	0.46
112:JC:16:DA:C2'	112:JC:17:DT:H72	2.46	0.46
112:JC:25:DA:C2'	112:JC:26:DT:H72	2.46	0.46
113:JD:14:DG:H1'	132:L9:15:DA:H5'	1.98	0.46
118:K6:16:DC:H2'	118:K6:17:DT:H72	1.97	0.46
119:K7:5:DA:C2'	119:K7:6:DT:H72	2.46	0.46
119:K7:32:DG:H1'	167:P3:11:DA:H5'	1.98	0.46
121:K9:15:DA:C2'	121:K9:16:DT:H72	2.46	0.46
122:KA:19:DA:C2'	122:KA:20:DT:H72	2.46	0.46
124:KD:4:DC:H2'	124:KD:5:DT:H72	1.97	0.46
128:L5:12:DA:C2'	128:L5:13:DT:H72	2.46	0.46
130:L7:2:DA:C2'	130:L7:3:DT:H72	2.46	0.46
130:L7:12:DA:C2'	130:L7:13:DT:H72	2.46	0.46
130:L7:23:DA:C2'	130:L7:24:DT:H72	2.46	0.46
130:L7:35:DA:C2'	177:Q3:21:DT:H72	2.46	0.46
130:L7:36:DG:H1'	130:L7:37:DA:H5'	1.98	0.46
130:L7:48:DA:C2'	130:L7:49:DT:H72	2.46	0.46
135:LD:15:DA:C2'	135:LD:16:DT:H72	2.46	0.46
136:M2:9:DA:C2'	136:M2:10:DT:H72	2.46	0.46
141:M8:15:DG:H1'	141:M8:16:DA:H5'	1.98	0.46
145:MD:13:DG:H2''	145:MD:14:DC:O5'	2.13	0.46
149:N6:8:DA:C2'	149:N6:9:DT:H72	2.46	0.46
158:O5:29:DA:C2'	158:O5:30:DT:H72	2.46	0.46
160:O7:49:DA:C2'	160:O7:50:DT:H72	2.46	0.46
165:OD:22:DG:H1'	165:OD:23:DA:H5'	1.98	0.46
167:P3:5:DA:C2'	167:P3:6:DT:H72	2.46	0.46
167:P3:9:DG:H2''	167:P3:10:DC:O5'	2.13	0.46
169:P6:7:DG:H1'	169:P6:8:DA:H5'	1.98	0.46
173:PA:31:DA:C2'	173:PA:32:DT:H72	2.46	0.46
184:QD:9:DA:C2'	184:QD:10:DT:H72	2.46	0.46
187:R5:36:DA:H5'	223:V5:13:DG:H1'	1.97	0.46
188:R7:18:DA:C2'	188:R7:19:DT:H72	2.46	0.46
188:R7:29:DG:H2''	188:R7:30:DC:O5'	2.13	0.46
189:R8:24:DA:C2'	189:R8:25:DT:H72	2.46	0.46
192:RC:25:DA:C2'	192:RC:26:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
193:RD:11:DA:C2'	193:RD:12:DT:H72	2.46	0.46
198:S8:12:DA:C2'	198:S8:13:DT:H72	2.46	0.46
198:S8:42:DA:C2'	198:S8:43:DT:H72	2.46	0.46
199:S9:3:DG:H1'	199:S9:4:DA:H5'	1.98	0.46
199:S9:22:DG:H1'	199:S9:23:DA:H5'	1.98	0.46
200:SA:22:DA:C2'	200:SA:23:DT:H72	2.46	0.46
205:T5:22:DG:H1'	205:T5:23:DA:H5'	1.98	0.46
208:T9:21:DC:H2'	208:T9:22:DT:H72	1.97	0.46
209:TA:31:DG:H1'	209:TA:32:DA:H5'	1.98	0.46
210:TC:24:DG:H1'	210:TC:25:DA:H5'	1.98	0.46
214:U5:10:DC:H2'	214:U5:11:DT:H72	1.97	0.46
217:U9:25:DA:C2'	217:U9:26:DT:H72	2.46	0.46
225:V8:15:DA:C2'	225:V8:16:DT:H72	2.46	0.46
228:VC:26:DA:C2'	228:VC:27:DT:H72	2.46	0.46
236:X5:22:DA:C2'	236:X5:23:DT:H72	2.46	0.46
1:A1:1:DT:H72	70:G1:19:DA:C2'	2.46	0.46
3:A3:15:DA:C2'	3:A3:16:DT:H72	2.46	0.46
5:A5:10:DA:C2'	5:A5:11:DT:H72	2.46	0.46
7:A7:18:DA:C2'	7:A7:19:DT:H72	2.46	0.46
10:AA:15:DA:C2'	10:AA:16:DT:H72	2.46	0.46
11:AB:91:DC:H2'	11:AB:92:DT:H72	1.97	0.46
11:AB:141:DA:C2'	11:AB:142:DT:H72	2.46	0.46
11:AB:233:DA:C2'	11:AB:234:DT:H72	2.46	0.46
11:AB:243:DG:H1'	11:AB:244:DA:H5'	1.98	0.46
11:AB:247:DA:C2'	11:AB:248:DT:H72	2.46	0.46
11:AB:517:DC:H2'	11:AB:518:DT:H72	1.97	0.46
11:AB:598:DA:C2'	11:AB:599:DT:H72	2.46	0.46
11:AB:606:DA:C2'	11:AB:607:DT:H72	2.46	0.46
11:AB:787:DA:C2'	11:AB:788:DT:H72	2.46	0.46
11:AB:979:DA:C2'	11:AB:980:DT:H72	2.46	0.46
11:AB:999:DG:H2''	11:AB:1000:DC:O5'	2.13	0.46
11:AB:1050:DG:H1'	11:AB:1051:DA:H5'	1.98	0.46
11:AB:1098:DA:C2'	11:AB:1099:DT:H72	2.46	0.46
11:AB:1232:DA:C2'	11:AB:1233:DT:H72	2.46	0.46
11:AB:1253:DA:C2'	11:AB:1254:DT:H72	2.46	0.46
11:AB:1331:DA:C2'	11:AB:1332:DT:H72	2.46	0.46
11:AB:1358:DA:C2'	11:AB:1359:DT:H72	2.46	0.46
11:AB:1378:DA:C2'	11:AB:1379:DT:H72	2.46	0.46
11:AB:1538:DA:C2'	11:AB:1539:DT:H72	2.46	0.46
11:AB:1568:DA:C2'	11:AB:1569:DT:H72	2.46	0.46
11:AB:1662:DC:H2'	11:AB:1663:DT:H72	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1736:DA:C2'	11:AB:1737:DT:H72	2.46	0.46
11:AB:1777:DA:C2'	11:AB:1778:DT:H72	2.46	0.46
11:AB:1956:DA:C2'	11:AB:1957:DT:H72	2.46	0.46
11:AB:2015:DC:H2'	11:AB:2016:DT:H72	1.97	0.46
11:AB:2088:DA:C2'	11:AB:2089:DT:H72	2.46	0.46
11:AB:2127:DA:C2'	11:AB:2128:DT:H72	2.46	0.46
11:AB:2230:DC:H2'	11:AB:2231:DT:H72	1.97	0.46
11:AB:2368:DA:C2'	11:AB:2369:DT:H72	2.46	0.46
11:AB:2375:DA:C2'	11:AB:2376:DT:H72	2.46	0.46
11:AB:2380:DA:C2'	11:AB:2381:DT:H72	2.46	0.46
11:AB:2410:DA:C2'	11:AB:2411:DT:H72	2.46	0.46
11:AB:2492:DA:C2'	11:AB:2493:DT:H72	2.46	0.46
11:AB:2524:DG:H2''	11:AB:2525:DC:O5'	2.13	0.46
11:AB:2566:DA:C2'	11:AB:2567:DT:H72	2.46	0.46
11:AB:2618:DC:H2'	11:AB:2619:DT:H72	1.97	0.46
11:AB:2841:DA:C2'	11:AB:2842:DT:H72	2.46	0.46
11:AB:2879:DC:H2'	11:AB:2880:DT:H72	1.97	0.46
11:AB:2992:DC:H2'	11:AB:2993:DT:H72	1.97	0.46
11:AB:3037:DA:C2'	11:AB:3038:DT:H72	2.46	0.46
11:AB:3058:DA:C2'	11:AB:3059:DT:H72	2.46	0.46
11:AB:3061:DA:C2'	11:AB:3062:DT:H72	2.46	0.46
11:AB:3134:DA:C2'	11:AB:3135:DT:H72	2.46	0.46
11:AB:3179:DA:C2'	11:AB:3180:DT:H72	2.46	0.46
11:AB:3240:DA:C2'	11:AB:3241:DT:H72	2.46	0.46
11:AB:3257:DA:C2'	11:AB:3258:DT:H72	2.46	0.46
11:AB:3286:DA:C2'	11:AB:3287:DT:H72	2.46	0.46
11:AB:3387:DG:H1'	11:AB:3388:DA:H5'	1.98	0.46
11:AB:3701:DA:C2'	11:AB:3702:DT:H72	2.46	0.46
11:AB:3723:DG:H1'	11:AB:3724:DA:H5'	1.97	0.46
11:AB:3772:DA:C2'	11:AB:3773:DT:H72	2.46	0.46
11:AB:3893:DA:C2'	11:AB:3894:DT:H72	2.46	0.46
11:AB:3900:DG:H1'	11:AB:3901:DA:H5'	1.98	0.46
11:AB:3909:DA:C2'	11:AB:4414:DT:H72	2.46	0.46
11:AB:4078:DA:C2'	11:AB:4079:DT:H72	2.46	0.46
11:AB:4168:DC:H2'	11:AB:4169:DT:H72	1.97	0.46
11:AB:4281:DA:C2'	11:AB:4282:DT:H72	2.46	0.46
11:AB:4423:DA:C2'	11:AB:4424:DT:H72	2.46	0.46
11:AB:4579:DA:C2'	11:AB:4580:DT:H72	2.46	0.46
11:AB:4616:DA:C2'	11:AB:4617:DT:H72	2.46	0.46
11:AB:4785:DC:H2'	11:AB:4786:DT:H72	1.97	0.46
11:AB:4837:DG:H1'	11:AB:4838:DA:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4899:DC:H2'	11:AB:4900:DT:H72	1.97	0.46
11:AB:4947:DG:H2''	11:AB:4948:DC:O5'	2.13	0.46
11:AB:5007:DA:C2'	11:AB:5008:DT:H72	2.46	0.46
11:AB:5042:DG:H1'	11:AB:5043:DA:H5'	1.98	0.46
11:AB:5138:DA:C2'	11:AB:5139:DT:H72	2.46	0.46
11:AB:5162:DA:C2'	11:AB:5163:DT:H72	2.46	0.46
11:AB:5196:DA:C2'	11:AB:5197:DT:H72	2.46	0.46
11:AB:5212:DC:H2'	11:AB:5213:DT:H72	1.97	0.46
11:AB:5267:DA:C2'	11:AB:5268:DT:H72	2.46	0.46
11:AB:5301:DG:H2''	11:AB:5302:DC:O5'	2.13	0.46
11:AB:5391:DG:H2''	11:AB:5392:DC:O5'	2.13	0.46
11:AB:5399:DG:H1'	11:AB:5400:DA:H5'	1.98	0.46
11:AB:5493:DG:H1'	11:AB:5494:DA:H5'	1.98	0.46
11:AB:5567:DA:C2'	11:AB:5568:DT:H72	2.46	0.46
11:AB:5613:DA:C2'	11:AB:5614:DT:H72	2.46	0.46
11:AB:5650:DA:C2'	11:AB:5651:DT:H72	2.46	0.46
11:AB:5793:DG:H2''	11:AB:5794:DC:O5'	2.13	0.46
11:AB:6563:DA:C2'	11:AB:6564:DT:H72	2.46	0.46
11:AB:6623:DA:C2'	11:AB:6624:DT:H72	2.46	0.46
11:AB:6643:DA:C2'	11:AB:6644:DT:H72	2.46	0.46
11:AB:6656:DA:C2'	11:AB:6657:DT:H72	2.46	0.46
11:AB:6703:DC:H2'	11:AB:6704:DT:H72	1.97	0.46
11:AB:6739:DA:C2'	11:AB:6740:DT:H72	2.46	0.46
11:AB:6744:DC:H2'	11:AB:6745:DT:H72	1.97	0.46
11:AB:6748:DA:C2'	11:AB:6749:DT:H72	2.46	0.46
11:AB:6919:DC:H2'	11:AB:6920:DT:H72	1.97	0.46
11:AB:6988:DC:H2'	11:AB:6989:DT:H72	1.97	0.46
11:AB:7145:DG:H2''	11:AB:7146:DC:O5'	2.13	0.46
13:AD:7:DA:C2'	13:AD:8:DT:H72	2.46	0.46
14:B1:27:DG:H1'	14:B1:28:DA:H5'	1.98	0.46
18:B5:29:DG:H1'	18:B5:30:DA:H5'	1.98	0.46
19:B6:3:DA:C2'	19:B6:4:DT:H72	2.46	0.46
21:B8:18:DA:C2'	21:B8:19:DT:H72	2.46	0.46
21:B8:21:DA:C2'	21:B8:22:DT:H72	2.46	0.46
28:C3:15:DG:H1'	28:C3:16:DA:H5'	1.98	0.46
30:C6:9:DA:C2'	30:C6:10:DT:H72	2.46	0.46
30:C6:29:DC:O5'	73:G5:7:DG:H2''	2.13	0.46
37:D1:26:DC:H2'	37:D1:27:DT:H72	1.97	0.46
38:D2:11:DG:H2''	38:D2:12:DC:O5'	2.13	0.46
40:D5:14:DA:C2'	40:D5:15:DT:H72	2.46	0.46
43:D8:13:DA:C2'	43:D8:14:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:D8:41:DA:C2'	43:D8:42:DT:H72	2.46	0.46
46:DC:6:DG:H1'	46:DC:7:DA:H5'	1.98	0.46
49:E2:14:DA:C2'	49:E2:15:DT:H72	2.46	0.46
50:E3:10:DA:C2'	50:E3:11:DT:H72	2.46	0.46
51:E5:30:DA:C2'	51:E5:31:DT:H72	2.46	0.46
53:E7:14:DA:C2'	53:E7:15:DT:H72	2.46	0.46
55:E9:35:DA:C2'	55:E9:36:DT:H72	2.46	0.46
55:E9:42:DA:H5'	81:H1:13:DG:H1'	1.98	0.46
60:F2:15:DA:C2'	60:F2:16:DT:H72	2.46	0.46
60:F2:25:DG:H1'	130:L7:15:DA:H5'	1.97	0.46
61:F3:6:DG:H2''	61:F3:7:DC:O5'	2.13	0.46
62:F5:5:DA:C2'	62:F5:6:DT:H72	2.46	0.46
62:F5:41:DA:C2'	62:F5:42:DT:H72	2.46	0.46
66:F9:5:DG:H1'	66:F9:6:DA:H5'	1.98	0.46
68:FC:8:DA:C2'	68:FC:9:DT:H72	2.46	0.46
74:G6:13:DC:H2'	74:G6:14:DT:H72	1.97	0.46
81:H1:20:DA:C2'	81:H1:21:DT:H72	2.46	0.46
82:H2:32:DC:H2'	82:H2:33:DT:H72	1.97	0.46
84:H5:18:DA:C2'	84:H5:19:DT:H72	2.46	0.46
93:I2:3:DA:C2'	93:I2:4:DT:H72	2.46	0.46
95:I5:3:DC:H2'	95:I5:4:DT:H72	1.97	0.46
95:I5:24:DA:C2'	95:I5:25:DT:H72	2.46	0.46
100:IA:19:DA:C2'	100:IA:20:DT:H72	2.46	0.46
100:IA:23:DG:H1'	209:TA:26:DA:H5'	1.98	0.46
104:J2:13:DG:H1'	104:J2:14:DA:H5'	1.98	0.46
107:J6:5:DA:C2'	107:J6:6:DT:H72	2.46	0.46
107:J6:10:DA:C2'	107:J6:11:DT:H72	2.46	0.46
107:J6:15:DG:H1'	107:J6:16:DA:H5'	1.98	0.46
108:J7:23:DA:C2'	108:J7:24:DT:H72	2.46	0.46
109:J8:1:DA:H5'	120:K8:4:DG:H1'	1.98	0.46
109:J8:16:DA:C2'	109:J8:17:DT:H72	2.46	0.46
119:K7:23:DA:C2'	119:K7:24:DT:H72	2.46	0.46
121:K9:27:DG:H1'	121:K9:28:DA:H5'	1.98	0.46
122:KA:16:DA:C2'	122:KA:17:DT:H72	2.46	0.46
123:KC:26:DA:C2'	123:KC:27:DT:H72	2.46	0.46
125:L1:16:DA:C2'	125:L1:17:DT:H72	2.46	0.46
125:L1:18:DA:C2'	125:L1:19:DT:H72	2.46	0.46
129:L6:18:DA:C2'	129:L6:19:DT:H72	2.46	0.46
130:L7:16:DA:C2'	130:L7:17:DT:H72	2.46	0.46
138:M5:25:DA:C2'	138:M5:26:DT:H72	2.46	0.46
140:M7:20:DA:C2'	140:M7:21:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
143:MA:14:DG:H2''	143:MA:15:DC:O5'	2.13	0.46
146:N2:10:DA:C2'	146:N2:11:DT:H72	2.46	0.46
149:N6:40:DA:C2'	149:N6:41:DT:H72	2.46	0.46
152:N9:49:DA:C2'	152:N9:50:DT:H72	2.46	0.46
155:ND:16:DA:C2'	155:ND:17:DT:H72	2.46	0.46
160:O7:48:DG:H1'	160:O7:49:DA:H5'	1.98	0.46
161:O8:3:DA:C2'	161:O8:4:DT:H72	2.46	0.46
161:O8:21:DA:C2'	161:O8:22:DT:H72	2.46	0.46
166:P2:25:DA:C2'	166:P2:26:DT:H72	2.46	0.46
175:PD:5:DG:H2''	175:PD:6:DC:O5'	2.13	0.46
176:Q2:19:DA:C2'	176:Q2:20:DT:H72	2.46	0.46
178:Q5:15:DG:H1'	178:Q5:16:DA:H5'	1.97	0.46
178:Q5:17:DA:C2'	178:Q5:18:DT:H72	2.46	0.46
179:Q7:16:DA:C2'	179:Q7:17:DT:H72	2.46	0.46
181:Q9:13:DA:C2'	181:Q9:14:DT:H72	2.46	0.46
181:Q9:27:DA:C2'	181:Q9:28:DT:H72	2.46	0.46
181:Q9:31:DA:C2'	181:Q9:32:DT:H72	2.46	0.46
182:QA:26:DA:C2'	182:QA:27:DT:H72	2.46	0.46
183:QC:14:DA:C2'	183:QC:15:DT:H72	2.46	0.46
185:R2:20:DG:H1'	185:R2:21:DA:H5'	1.98	0.46
191:RA:23:DA:C2'	191:RA:24:DT:H72	2.46	0.46
192:RC:33:DG:H2''	192:RC:34:DC:O5'	2.13	0.46
193:RD:16:DA:C2'	193:RD:17:DT:H72	2.46	0.46
194:S2:7:DA:C2'	194:S2:8:DT:H72	2.46	0.46
196:S5:22:DG:H1'	196:S5:23:DA:H5'	1.98	0.46
198:S8:30:DA:C2'	198:S8:31:DT:H72	2.46	0.46
199:S9:13:DA:C2'	199:S9:14:DT:H72	2.46	0.46
203:T2:10:DG:H2''	203:T2:11:DC:O5'	2.13	0.46
204:T3:10:DA:C2'	204:T3:11:DT:H72	2.46	0.46
208:T9:16:DA:C2'	208:T9:17:DT:H72	2.46	0.46
213:U3:1:DG:H1'	213:U3:2:DA:H5'	1.98	0.46
215:U7:19:DC:H2'	215:U7:20:DT:H72	1.97	0.46
219:UC:22:DA:C2'	219:UC:23:DT:H72	2.46	0.46
220:UD:4:DA:C2'	220:UD:5:DT:H72	2.46	0.46
221:V2:3:DA:C2'	221:V2:4:DT:H72	2.46	0.46
222:V3:12:DG:H1'	222:V3:13:DA:H5'	1.98	0.46
223:V5:11:DC:H2'	223:V5:12:DT:H72	1.97	0.46
223:V5:23:DC:H2'	223:V5:24:DT:H72	1.97	0.46
223:V5:39:DA:C2'	223:V5:40:DT:H72	2.46	0.46
226:V9:26:DA:C2'	226:V9:27:DT:H72	2.46	0.46
228:VC:16:DA:C2'	228:VC:17:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
230:W3:23:DA:C2'	230:W3:24:DT:H72	2.46	0.46
232:W7:9:DA:C2'	232:W7:10:DT:H72	2.46	0.46
232:W7:15:DA:C2'	232:W7:16:DT:H72	2.46	0.46
237:X7:2:DA:C2'	237:X7:3:DT:H72	2.46	0.46
237:X7:9:DA:C2'	237:X7:10:DT:H72	2.46	0.46
5:A5:1:DT:H72	138:M5:42:DA:C2'	2.45	0.46
5:A5:5:DA:C2'	5:A5:6:DT:H72	2.46	0.46
11:AB:62:DC:H2'	11:AB:63:DT:H72	1.97	0.46
11:AB:93:DG:H1'	11:AB:94:DA:H5'	1.98	0.46
11:AB:171:DA:C2'	11:AB:172:DT:H72	2.46	0.46
11:AB:200:DC:H2'	11:AB:201:DT:H72	1.97	0.46
11:AB:211:DC:H2'	11:AB:212:DT:H72	1.97	0.46
11:AB:308:DC:H2'	11:AB:309:DT:H72	1.97	0.46
11:AB:317:DG:H1'	11:AB:318:DA:H5'	1.98	0.46
11:AB:371:DA:C2'	11:AB:372:DT:H72	2.46	0.46
11:AB:381:DA:C2'	11:AB:382:DT:H72	2.46	0.46
11:AB:492:DA:C2'	11:AB:493:DT:H72	2.46	0.46
11:AB:562:DA:C2'	11:AB:563:DT:H72	2.46	0.46
11:AB:565:DC:H2'	11:AB:566:DT:H72	1.97	0.46
11:AB:568:DA:C2'	11:AB:569:DT:H72	2.46	0.46
11:AB:586:DC:H2'	11:AB:587:DT:H72	1.97	0.46
11:AB:631:DA:C2'	11:AB:632:DT:H72	2.46	0.46
11:AB:644:DA:C2'	11:AB:645:DT:H72	2.46	0.46
11:AB:670:DC:H2'	11:AB:671:DT:H72	1.97	0.46
11:AB:760:DG:H1'	11:AB:761:DA:H5'	1.97	0.46
11:AB:775:DA:C2'	11:AB:776:DT:H72	2.46	0.46
11:AB:850:DA:C2'	11:AB:851:DT:H72	2.46	0.46
11:AB:853:DC:H2'	11:AB:854:DT:H72	1.97	0.46
11:AB:863:DC:H2'	11:AB:864:DT:H72	1.97	0.46
11:AB:973:DA:C2'	11:AB:974:DT:H72	2.46	0.46
11:AB:1014:DA:C2'	11:AB:1015:DT:H72	2.46	0.46
11:AB:1016:DG:H1'	11:AB:1017:DA:H5'	1.98	0.46
11:AB:1215:DA:C2'	11:AB:1216:DT:H72	2.46	0.46
11:AB:1222:DA:C2'	11:AB:1223:DT:H72	2.46	0.46
11:AB:1328:DC:H2'	11:AB:1329:DT:H72	1.97	0.46
11:AB:1497:DA:C2'	11:AB:1498:DT:H72	2.46	0.46
11:AB:1499:DC:H2'	11:AB:1500:DT:H72	1.97	0.46
11:AB:1532:DA:C2'	11:AB:1533:DT:H72	2.46	0.46
11:AB:1556:DC:H2'	11:AB:1557:DT:H72	1.97	0.46
11:AB:1628:DG:H1'	11:AB:1629:DA:H5'	1.97	0.46
11:AB:1670:DC:H2'	11:AB:1671:DT:H72	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1675:DC:H2'	11:AB:1676:DT:H72	1.97	0.46
11:AB:1688:DA:C2'	11:AB:1689:DT:H72	2.46	0.46
11:AB:1709:DA:C2'	11:AB:1710:DT:H72	2.46	0.46
11:AB:1746:DA:C2'	11:AB:1747:DT:H72	2.46	0.46
11:AB:1752:DA:C2'	11:AB:1753:DT:H72	2.46	0.46
11:AB:1765:DA:C2'	11:AB:1766:DT:H72	2.46	0.46
11:AB:1767:DA:C2'	11:AB:1768:DT:H72	2.46	0.46
11:AB:1801:DC:H2'	11:AB:1802:DT:H72	1.97	0.46
11:AB:1837:DA:C2'	11:AB:1838:DT:H72	2.46	0.46
11:AB:1842:DA:C2'	11:AB:1843:DT:H72	2.46	0.46
11:AB:1870:DA:C2'	11:AB:1871:DT:H72	2.46	0.46
11:AB:1924:DC:H2'	11:AB:1925:DT:H72	1.97	0.46
11:AB:1951:DC:H2'	11:AB:1952:DT:H72	1.97	0.46
11:AB:1958:DA:C2'	11:AB:1959:DT:H72	2.45	0.46
11:AB:1974:DA:C2'	11:AB:1975:DT:H72	2.46	0.46
11:AB:2068:DA:C2'	11:AB:2069:DT:H72	2.46	0.46
11:AB:2502:DA:C2'	11:AB:2503:DT:H72	2.46	0.46
11:AB:2521:DC:H2'	11:AB:2522:DT:H72	1.97	0.46
11:AB:2558:DA:C2'	11:AB:2559:DT:H72	2.46	0.46
11:AB:2620:DA:C2'	11:AB:2621:DT:H72	2.46	0.46
11:AB:2629:DA:C2'	11:AB:2630:DT:H72	2.46	0.46
11:AB:2662:DA:C2'	11:AB:2663:DT:H72	2.46	0.46
11:AB:2706:DA:C2'	11:AB:2707:DT:H72	2.46	0.46
11:AB:2710:DA:C2'	11:AB:2711:DT:H72	2.46	0.46
11:AB:2726:DG:H1'	11:AB:2727:DA:H5'	1.98	0.46
11:AB:2737:DA:C2'	11:AB:2738:DT:H72	2.46	0.46
11:AB:2796:DA:C2'	11:AB:2797:DT:H72	2.46	0.46
11:AB:2813:DA:C2'	11:AB:2814:DT:H72	2.46	0.46
11:AB:2827:DA:C2'	11:AB:2828:DT:H72	2.46	0.46
11:AB:2838:DA:C2'	11:AB:2839:DT:H72	2.46	0.46
11:AB:2866:DA:C2'	11:AB:2867:DT:H72	2.46	0.46
11:AB:3108:DA:C2'	11:AB:3109:DT:H72	2.46	0.46
11:AB:3149:DC:H2'	11:AB:3150:DT:H72	1.97	0.46
11:AB:3159:DC:H2'	11:AB:3160:DT:H72	1.97	0.46
11:AB:3199:DA:C2'	11:AB:3200:DT:H72	2.46	0.46
11:AB:3226:DA:C2'	11:AB:3227:DT:H72	2.46	0.46
11:AB:3282:DA:C2'	11:AB:3283:DT:H72	2.46	0.46
11:AB:3299:DA:C2'	11:AB:3300:DT:H72	2.46	0.46
11:AB:3303:DA:C2'	11:AB:3304:DT:H72	2.46	0.46
11:AB:3384:DA:C2'	11:AB:3385:DT:H72	2.46	0.46
11:AB:3597:DA:C2'	11:AB:3598:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3606:DG:H2'	11:AB:3607:DC:O5'	2.13	0.46
11:AB:3693:DA:C2'	11:AB:3694:DT:H72	2.46	0.46
11:AB:3710:DA:C2'	11:AB:3711:DT:H72	2.46	0.46
11:AB:3814:DG:H1'	11:AB:3815:DA:H5'	1.97	0.46
11:AB:3850:DA:C2'	11:AB:3851:DT:H72	2.46	0.46
11:AB:3947:DA:C2'	11:AB:3948:DT:H72	2.46	0.46
11:AB:4007:DC:H2'	11:AB:4008:DT:H72	1.97	0.46
11:AB:4145:DG:H2'	11:AB:4146:DC:O5'	2.13	0.46
11:AB:4311:DG:H1'	11:AB:4312:DA:H5'	1.97	0.46
11:AB:4352:DA:C2'	11:AB:4353:DT:H72	2.46	0.46
11:AB:4456:DA:C2'	11:AB:4457:DT:H72	2.46	0.46
11:AB:4466:DG:H2'	11:AB:4467:DC:O5'	2.13	0.46
11:AB:4679:DA:C2'	11:AB:4680:DT:H72	2.46	0.46
11:AB:4726:DC:H2'	11:AB:4727:DT:H72	1.97	0.46
11:AB:4793:DA:C2'	11:AB:4794:DT:H72	2.46	0.46
11:AB:4824:DA:C2'	11:AB:4825:DT:H72	2.46	0.46
11:AB:4832:DG:H1'	11:AB:4833:DA:H5'	1.97	0.46
11:AB:4855:DC:H2'	11:AB:4856:DT:H72	1.97	0.46
11:AB:4922:DC:H2'	11:AB:4923:DT:H72	1.96	0.46
11:AB:5087:DG:H1'	11:AB:5088:DA:H5'	1.98	0.46
11:AB:5264:DA:C2'	11:AB:5265:DT:H72	2.46	0.46
11:AB:5274:DA:C2'	11:AB:5275:DT:H72	2.46	0.46
11:AB:5297:DA:C2'	11:AB:5298:DT:H72	2.46	0.46
11:AB:5340:DA:C2'	11:AB:5341:DT:H72	2.46	0.46
11:AB:5369:DA:C2'	11:AB:5370:DT:H72	2.46	0.46
11:AB:5442:DA:C2'	11:AB:5443:DT:H72	2.46	0.46
11:AB:5754:DA:C2'	11:AB:5755:DT:H72	2.46	0.46
11:AB:5786:DA:C2'	11:AB:5787:DT:H72	2.46	0.46
11:AB:5807:DA:C2'	11:AB:5808:DT:H72	2.46	0.46
11:AB:5811:DA:C2'	11:AB:5812:DT:H72	2.46	0.46
11:AB:5816:DA:C2'	11:AB:5817:DT:H72	2.46	0.46
11:AB:5833:DA:C2'	11:AB:5834:DT:H72	2.46	0.46
11:AB:5921:DA:C2'	11:AB:5922:DT:H72	2.46	0.46
11:AB:6077:DC:H2'	11:AB:6078:DT:H72	1.97	0.46
11:AB:6103:DC:H2'	11:AB:6104:DT:H72	1.97	0.46
11:AB:6160:DA:C2'	11:AB:6161:DT:H72	2.46	0.46
11:AB:6236:DA:C2'	11:AB:6237:DT:H72	2.46	0.46
11:AB:6286:DG:H1'	11:AB:6287:DA:H5'	1.97	0.46
11:AB:6342:DA:C2'	11:AB:6343:DT:H72	2.46	0.46
11:AB:6383:DC:H2'	11:AB:6384:DT:H72	1.97	0.46
11:AB:6414:DC:H2'	11:AB:6415:DT:H72	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6428:DA:C2'	11:AB:6429:DT:H72	2.46	0.46
11:AB:6527:DC:H2'	11:AB:6528:DT:H72	1.97	0.46
11:AB:6586:DA:C2'	11:AB:6587:DT:H72	2.46	0.46
11:AB:6646:DG:H2''	11:AB:6647:DC:O5'	2.13	0.46
11:AB:6678:DA:C2'	11:AB:6679:DT:H72	2.46	0.46
11:AB:6769:DA:C2'	11:AB:6770:DT:H72	2.46	0.46
11:AB:6862:DC:H2'	11:AB:6863:DT:H72	1.97	0.46
11:AB:6944:DA:C2'	11:AB:6945:DT:H72	2.46	0.46
11:AB:6955:DA:C2'	11:AB:6956:DT:H72	2.46	0.46
11:AB:7026:DA:C2'	11:AB:7027:DT:H72	2.46	0.46
11:AB:7042:DA:C2'	11:AB:7043:DT:H72	2.46	0.46
11:AB:7149:DC:H2'	11:AB:7150:DT:H72	1.97	0.46
11:AB:7174:DG:H1'	11:AB:7175:DA:H5'	1.98	0.46
11:AB:7191:DC:H2'	11:AB:7192:DT:H72	1.97	0.46
11:AB:7247:DG:H1'	11:AB:7248:DA:H5'	1.98	0.46
13:AD:16:DG:H1'	13:AD:17:DA:H5'	1.98	0.46
14:B1:36:DA:C2'	14:B1:37:DT:H72	2.46	0.46
16:B3:7:DA:C2'	16:B3:8:DT:H72	2.46	0.46
17:B4:9:DA:C2'	17:B4:10:DT:H72	2.46	0.46
18:B5:38:DA:C2'	194:S2:1:DT:H72	2.46	0.46
23:BA:31:DA:C2'	23:BA:32:DT:H72	2.46	0.46
24:BC:12:DG:H1'	24:BC:13:DA:H5'	1.98	0.46
28:C3:24:DG:H1'	28:C3:25:DA:H5'	1.98	0.46
30:C6:26:DC:H2'	30:C6:27:DT:H72	1.97	0.46
31:C7:20:DG:H1'	31:C7:21:DA:H5'	1.97	0.46
33:C9:7:DA:C2'	33:C9:8:DT:H72	2.46	0.46
33:C9:17:DA:C2'	33:C9:18:DT:H72	2.46	0.46
43:D8:43:DA:C2'	43:D8:44:DT:H72	2.46	0.46
47:DD:35:DA:C2'	47:DD:36:DT:H72	2.46	0.46
50:E3:6:DA:C2'	50:E3:7:DT:H72	2.46	0.46
55:E9:13:DG:H1'	55:E9:14:DA:H5'	1.98	0.46
55:E9:15:DA:C2'	55:E9:16:DT:H72	2.46	0.46
59:F1:19:DA:C2'	59:F1:20:DT:H72	2.46	0.46
60:F2:12:DG:H2''	60:F2:13:DC:O5'	2.13	0.46
61:F3:2:DA:C2'	61:F3:3:DT:H72	2.46	0.46
62:F5:18:DG:H2''	62:F5:19:DC:O5'	2.13	0.46
62:F5:27:DA:C2'	62:F5:28:DT:H72	2.46	0.46
65:F8:7:DA:C2'	65:F8:8:DT:H72	2.46	0.46
67:FA:1:DG:H1'	67:FA:2:DA:H5'	1.97	0.46
68:FC:2:DA:C2'	68:FC:3:DT:H72	2.46	0.46
69:FD:12:DA:C2'	69:FD:13:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:FD:32:DC:H2'	69:FD:33:DT:H72	1.97	0.46
73:G5:15:DA:H5'	117:K5:32:DG:H1'	1.98	0.46
75:G7:13:DA:C2'	75:G7:14:DT:H72	2.46	0.46
82:H2:25:DC:H2'	82:H2:26:DT:H72	1.97	0.46
83:H3:13:DA:C2'	83:H3:14:DT:H72	2.46	0.46
83:H3:34:DA:C2'	83:H3:35:DT:H72	2.46	0.46
84:H5:11:DA:C2'	84:H5:12:DT:H72	2.46	0.46
84:H5:29:DC:H2'	84:H5:30:DT:H72	1.97	0.46
85:H6:18:DC:H2'	85:H6:19:DT:H72	1.97	0.46
85:H6:26:DG:H1'	85:H6:27:DA:H5'	1.97	0.46
89:HA:13:DG:H1'	89:HA:14:DA:H5'	1.98	0.46
90:HC:21:DG:H1'	90:HC:22:DA:H5'	1.97	0.46
91:HD:12:DA:C2'	91:HD:13:DT:H72	2.46	0.46
98:I8:41:DA:C2'	98:I8:42:DT:H72	2.46	0.46
106:J5:8:DC:H2'	106:J5:9:DT:H72	1.97	0.46
109:J8:31:DA:C2'	109:J8:32:DT:H72	2.46	0.46
110:J9:7:DC:H2'	110:J9:8:DT:H72	1.97	0.46
127:L3:15:DG:H1'	127:L3:16:DA:H5'	1.98	0.46
130:L7:27:DA:C2'	130:L7:28:DT:H72	2.46	0.46
130:L7:44:DA:C2'	130:L7:45:DT:H72	2.46	0.46
131:L8:12:DA:C2'	131:L8:13:DT:H72	2.46	0.46
138:M5:19:DA:C2'	138:M5:20:DT:H72	2.46	0.46
143:MA:32:DC:H2'	143:MA:33:DT:H72	1.97	0.46
145:MD:9:DA:C2'	226:V9:12:DT:H72	2.46	0.46
147:N3:31:DA:C2'	147:N3:32:DT:H72	2.46	0.46
149:N6:13:DA:C2'	149:N6:14:DT:H72	2.46	0.46
150:N7:7:DA:C2'	150:N7:8:DT:H72	2.46	0.46
157:O3:22:DA:C2'	157:O3:23:DT:H72	2.46	0.46
158:O5:15:DA:C2'	158:O5:16:DT:H72	2.46	0.46
160:O7:18:DA:C2'	160:O7:19:DT:H72	2.46	0.46
161:O8:45:DA:C2'	161:O8:46:DT:H72	2.46	0.46
165:OD:3:DA:C2'	165:OD:4:DT:H72	2.46	0.46
165:OD:6:DG:H1'	165:OD:7:DA:H5'	1.98	0.46
165:OD:17:DA:C2'	165:OD:18:DT:H72	2.46	0.46
165:OD:48:DA:C2'	165:OD:49:DT:H72	2.46	0.46
165:OD:52:DA:C2'	165:OD:53:DT:H72	2.46	0.46
167:P3:4:DG:H1'	167:P3:5:DA:H5'	1.98	0.46
170:P7:5:DA:C2'	170:P7:6:DT:H72	2.46	0.46
170:P7:14:DA:C2'	170:P7:15:DT:H72	2.46	0.46
174:PC:17:DA:C2'	174:PC:18:DT:H72	2.46	0.46
178:Q5:10:DA:C2'	178:Q5:11:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
178:Q5:34:DA:C2'	178:Q5:35:DT:H72	2.46	0.46
179:Q7:7:DG:H1'	179:Q7:8:DA:H5'	1.97	0.46
179:Q7:9:DA:C2'	179:Q7:10:DT:H72	2.46	0.46
179:Q7:19:DA:C2'	179:Q7:20:DT:H72	2.46	0.46
180:Q8:22:DC:H2'	180:Q8:23:DT:H72	1.97	0.46
183:QC:8:DA:C2'	183:QC:9:DT:H72	2.46	0.46
187:R5:29:DA:C2'	187:R5:30:DT:H72	2.46	0.46
188:R7:31:DC:H2'	188:R7:32:DT:H72	1.97	0.46
189:R8:5:DA:C2'	189:R8:6:DT:H72	2.46	0.46
191:RA:16:DA:C2'	191:RA:17:DT:H72	2.46	0.46
192:RC:14:DA:C2'	192:RC:15:DT:H72	2.46	0.46
192:RC:16:DA:C2'	192:RC:17:DT:H72	2.46	0.46
193:RD:20:DA:C2'	193:RD:21:DT:H72	2.46	0.46
201:SC:12:DG:H1'	201:SC:13:DA:H5'	1.97	0.46
204:T3:15:DC:H2'	204:T3:16:DT:H72	1.97	0.46
206:T7:25:DA:C2'	206:T7:26:DT:H72	2.46	0.46
206:T7:44:DA:C2'	206:T7:45:DT:H72	2.46	0.46
207:T8:17:DC:H2'	207:T8:18:DT:H72	1.97	0.46
208:T9:11:DA:C2'	208:T9:12:DT:H72	2.46	0.46
210:TC:14:DA:C2'	210:TC:15:DT:H72	2.46	0.46
211:TD:24:DA:C2'	211:TD:25:DT:H72	2.46	0.46
211:TD:32:DA:C2'	211:TD:33:DT:H72	2.46	0.46
213:U3:2:DA:C2'	213:U3:3:DT:H72	2.46	0.46
215:U7:8:DA:C2'	215:U7:9:DT:H72	2.46	0.46
216:U8:8:DA:C2'	216:U8:9:DT:H72	2.46	0.46
222:V3:17:DG:H1'	222:V3:18:DA:H5'	1.98	0.46
223:V5:7:DG:H1'	223:V5:8:DA:H5'	1.98	0.46
228:VC:6:DA:C2'	228:VC:7:DT:H72	2.46	0.46
229:VD:19:DA:C2'	229:VD:20:DT:H72	2.46	0.46
230:W3:4:DA:C2'	230:W3:5:DT:H72	2.46	0.46
233:W8:22:DA:C2'	233:W8:23:DT:H72	2.46	0.46
238:X9:53:DG:H2''	238:X9:54:DC:O5'	2.13	0.46
1:A1:50:DC:H2'	1:A1:51:DT:H72	1.97	0.46
3:A3:3:DA:C2'	3:A3:4:DT:H72	2.46	0.46
4:A4:15:DA:C2'	4:A4:16:DT:H72	2.46	0.46
4:A4:31:DA:C2'	4:A4:32:DT:H72	2.46	0.46
5:A5:16:DA:C2'	5:A5:17:DT:H72	2.46	0.46
7:A7:9:DA:C2'	7:A7:10:DT:H72	2.46	0.46
10:AA:21:DG:H1'	10:AA:22:DA:H5'	1.98	0.46
10:AA:23:DG:H1'	161:O8:33:DA:H5'	1.98	0.46
11:AB:3:DA:C2'	11:AB:4:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:263:DC:H2'	11:AB:264:DT:H72	1.97	0.46
11:AB:500:DC:H2'	11:AB:501:DT:H72	1.97	0.46
11:AB:502:DA:C2'	11:AB:503:DT:H72	2.46	0.46
11:AB:592:DC:H2'	11:AB:593:DT:H72	1.97	0.46
11:AB:602:DT:C6	11:AB:603:DT:H72	2.51	0.46
11:AB:619:DA:C2'	11:AB:620:DT:H72	2.46	0.46
11:AB:645:DT:C6	11:AB:646:DT:H72	2.51	0.46
11:AB:649:DC:H2'	11:AB:650:DT:H72	1.97	0.46
11:AB:716:DA:C2'	11:AB:717:DT:H72	2.46	0.46
11:AB:743:DC:H2'	11:AB:744:DT:H72	1.97	0.46
11:AB:797:DA:C2'	11:AB:798:DT:H72	2.46	0.46
11:AB:809:DA:C2'	11:AB:810:DT:H72	2.46	0.46
11:AB:821:DA:C2'	11:AB:822:DT:H72	2.46	0.46
11:AB:826:DC:H2'	11:AB:827:DT:H72	1.97	0.46
11:AB:1102:DA:C2'	11:AB:1103:DT:H72	2.46	0.46
11:AB:1128:DC:H2'	11:AB:1129:DT:H72	1.97	0.46
11:AB:1179:DA:C2'	11:AB:1180:DT:H72	2.46	0.46
11:AB:1204:DA:C2'	11:AB:1205:DT:H72	2.46	0.46
11:AB:1311:DG:H1'	11:AB:1312:DA:H5'	1.98	0.46
11:AB:1424:DA:C2'	11:AB:1425:DT:H72	2.46	0.46
11:AB:1445:DA:C2'	11:AB:1446:DT:H72	2.46	0.46
11:AB:1536:DC:H2'	11:AB:1537:DT:H72	1.97	0.46
11:AB:1562:DC:H2'	11:AB:1563:DT:H72	1.97	0.46
11:AB:1605:DA:C2'	11:AB:1606:DT:H72	2.46	0.46
11:AB:1691:DC:H2'	11:AB:1692:DT:H72	1.97	0.46
11:AB:1707:DC:H2'	11:AB:1708:DT:H72	1.97	0.46
11:AB:1712:DT:C6	11:AB:1713:DT:H72	2.51	0.46
11:AB:1799:DC:H2'	11:AB:1800:DT:H72	1.97	0.46
11:AB:1945:DA:C2'	11:AB:1946:DT:H72	2.46	0.46
11:AB:1954:DC:H2'	11:AB:1955:DT:H72	1.97	0.46
11:AB:1972:DC:H2'	11:AB:1973:DT:H72	1.97	0.46
11:AB:1987:DA:C2'	11:AB:1988:DT:H72	2.46	0.46
11:AB:2065:DA:C2'	11:AB:2066:DT:H72	2.46	0.46
11:AB:2073:DG:H1'	11:AB:2074:DA:H5'	1.97	0.46
11:AB:2085:DA:C2'	11:AB:2086:DT:H72	2.46	0.46
11:AB:2091:DG:H1'	11:AB:2092:DA:H5'	1.98	0.46
11:AB:2248:DA:C2'	11:AB:2249:DT:H72	2.46	0.46
11:AB:2321:DA:C2'	11:AB:2322:DT:H72	2.46	0.46
11:AB:2458:DA:C2'	11:AB:2459:DT:H72	2.46	0.46
11:AB:2468:DA:C2'	11:AB:2469:DT:H72	2.46	0.46
11:AB:2677:DA:C2'	11:AB:2678:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2755:DA:C2'	11:AB:2756:DT:H72	2.46	0.46
11:AB:2860:DA:C2'	11:AB:2861:DT:H72	2.46	0.46
11:AB:3111:DA:C2'	11:AB:3112:DT:H72	2.46	0.46
11:AB:3191:DC:H2'	11:AB:3192:DT:H72	1.97	0.46
11:AB:3279:DA:C2'	11:AB:3280:DT:H72	2.46	0.46
11:AB:3422:DA:C2'	11:AB:3423:DT:H72	2.46	0.46
11:AB:3512:DC:H2'	11:AB:3513:DT:H72	1.97	0.46
11:AB:3539:DA:C2'	11:AB:3540:DT:H72	2.46	0.46
11:AB:3647:DC:H2'	11:AB:3648:DT:H72	1.97	0.46
11:AB:3714:DA:C2'	11:AB:3715:DT:H72	2.46	0.46
11:AB:3727:DG:H1'	11:AB:3728:DA:H5'	1.98	0.46
11:AB:3845:DA:C2'	11:AB:3846:DT:H72	2.46	0.46
11:AB:3854:DC:H2'	11:AB:3855:DT:H72	1.97	0.46
11:AB:3863:DG:H1'	11:AB:3864:DA:H5'	1.97	0.46
11:AB:3929:DA:C2'	11:AB:3930:DT:H72	2.46	0.46
11:AB:3941:DC:H2'	11:AB:3942:DT:H72	1.97	0.46
11:AB:3991:DC:H2'	11:AB:3992:DT:H72	1.97	0.46
11:AB:4393:DA:C2'	11:AB:4394:DT:H72	2.46	0.46
11:AB:4416:DA:C2'	11:AB:4417:DT:H72	2.46	0.46
11:AB:4528:DA:C2'	11:AB:4529:DT:H72	2.46	0.46
11:AB:4538:DG:H2''	11:AB:4539:DC:O5'	2.13	0.46
11:AB:4633:DG:H1'	11:AB:4634:DA:H5'	1.97	0.46
11:AB:4650:DG:H1'	11:AB:4651:DA:H5'	1.97	0.46
11:AB:4721:DT:C6	11:AB:4722:DT:H72	2.51	0.46
11:AB:4787:DA:C2'	11:AB:4788:DT:H72	2.46	0.46
11:AB:4807:DG:H1'	11:AB:4808:DA:H5'	1.98	0.46
11:AB:4976:DG:H1'	11:AB:4977:DA:H5'	1.97	0.46
11:AB:5020:DC:H2'	11:AB:5021:DT:H72	1.97	0.46
11:AB:5054:DG:H1'	11:AB:5055:DA:H5'	1.98	0.46
11:AB:5200:DG:H1'	11:AB:5201:DA:H5'	1.98	0.46
11:AB:5226:DA:C2'	11:AB:5227:DT:H72	2.46	0.46
11:AB:5243:DC:H2'	11:AB:5244:DT:H72	1.97	0.46
11:AB:5257:DG:H1'	11:AB:5258:DA:H5'	1.98	0.46
11:AB:5327:DA:C2'	11:AB:5328:DT:H72	2.46	0.46
11:AB:5361:DA:C2'	11:AB:5362:DT:H72	2.46	0.46
11:AB:5374:DA:C2'	11:AB:5375:DT:H72	2.46	0.46
11:AB:5488:DG:H1'	11:AB:5489:DA:H5'	1.97	0.46
11:AB:5579:DA:C2'	11:AB:5580:DT:H72	2.46	0.46
11:AB:5675:DA:C2'	11:AB:5676:DT:H72	2.46	0.46
11:AB:5744:DA:C2'	11:AB:5745:DT:H72	2.46	0.46
11:AB:5764:DG:H2''	11:AB:5765:DC:O5'	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5881:DA:C2'	11:AB:5882:DT:H72	2.46	0.46
11:AB:5896:DA:C2'	11:AB:5897:DT:H72	2.46	0.46
11:AB:5934:DA:C2'	11:AB:5935:DT:H72	2.46	0.46
11:AB:5975:DA:C2'	11:AB:5976:DT:H72	2.46	0.46
11:AB:6070:DA:C2'	11:AB:6071:DT:H72	2.46	0.46
11:AB:6124:DG:H1'	11:AB:6125:DA:H5'	1.98	0.46
11:AB:6131:DC:H2'	11:AB:6132:DT:H72	1.97	0.46
11:AB:6229:DG:H1'	11:AB:6230:DA:H5'	1.98	0.46
11:AB:6257:DT:C6	11:AB:6258:DT:H72	2.51	0.46
11:AB:6311:DA:C2'	11:AB:6312:DT:H72	2.46	0.46
11:AB:6332:DA:C2'	11:AB:6333:DT:H72	2.46	0.46
11:AB:6408:DC:H2'	11:AB:6409:DT:H72	1.97	0.46
11:AB:6455:DA:C2'	11:AB:6456:DT:H72	2.46	0.46
11:AB:6497:DA:C2'	11:AB:6498:DT:H72	2.46	0.46
11:AB:6514:DG:H1'	11:AB:6515:DA:H5'	1.98	0.46
11:AB:6531:DA:C2'	11:AB:6532:DT:H72	2.46	0.46
11:AB:6566:DT:C6	11:AB:6567:DT:H72	2.51	0.46
11:AB:6648:DA:C2'	11:AB:6649:DT:H72	2.46	0.46
11:AB:6792:DC:H2'	11:AB:6793:DT:H72	1.97	0.46
11:AB:6800:DG:H1'	11:AB:6801:DA:H5'	1.98	0.46
11:AB:6860:DC:H2'	11:AB:6861:DT:H72	1.97	0.46
11:AB:7074:DC:H2'	11:AB:7075:DT:H72	1.97	0.46
11:AB:7175:DA:C2'	11:AB:7176:DT:H72	2.46	0.46
13:AD:31:DA:H5'	225:V8:24:DG:H1'	1.98	0.46
18:B5:15:DG:H1'	18:B5:16:DA:H5'	1.98	0.46
21:B8:9:DA:C2'	21:B8:10:DT:H72	2.46	0.46
25:BD:22:DA:C2'	25:BD:23:DT:H72	2.46	0.46
26:C1:19:DG:H1'	26:C1:20:DA:H5'	1.98	0.46
30:C6:12:DC:H2'	30:C6:13:DT:H72	1.97	0.46
31:C7:10:DA:C2'	31:C7:11:DT:H72	2.46	0.46
32:C8:44:DC:H2'	32:C8:45:DT:H72	1.97	0.46
33:C9:9:DG:H1'	33:C9:10:DA:H5'	1.98	0.46
35:CC:12:DC:H2'	35:CC:13:DT:H72	1.97	0.46
35:CC:22:DG:H1'	35:CC:23:DA:H5'	1.98	0.46
37:D1:3:DA:C2'	37:D1:4:DT:H72	2.46	0.46
43:D8:29:DC:H2'	43:D8:30:DT:H72	1.97	0.46
44:D9:27:DG:H2''	44:D9:28:DC:O5'	2.13	0.46
45:DA:14:DG:H2''	45:DA:15:DC:O5'	2.13	0.46
46:DC:21:DC:H2'	46:DC:22:DT:H72	1.97	0.46
49:E2:8:DA:C2'	49:E2:9:DT:H72	2.46	0.46
53:E7:8:DA:C2'	53:E7:9:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:E8:8:DA:C2'	54:E8:9:DT:H72	2.46	0.46
62:F5:39:DA:C2'	62:F5:40:DT:H72	2.46	0.46
64:F7:26:DA:C2'	64:F7:27:DT:H72	2.46	0.46
77:G9:6:DT:H72	156:O2:56:DC:H2'	1.97	0.46
79:GC:15:DT:H72	98:I8:30:DA:C2'	2.46	0.46
81:H1:7:DA:C2'	81:H1:8:DT:H72	2.46	0.46
82:H2:9:DA:C2'	82:H2:10:DT:H72	2.46	0.46
82:H2:15:DA:C2'	82:H2:16:DT:H72	2.46	0.46
83:H3:6:DC:H2'	83:H3:7:DT:H72	1.97	0.46
88:H9:1:DA:C2'	88:H9:2:DT:H72	2.46	0.46
91:HD:8:DA:C2'	91:HD:9:DT:H72	2.46	0.46
98:I8:15:DA:C2'	98:I8:16:DT:H72	2.46	0.46
98:I8:26:DC:H2'	98:I8:27:DT:H72	1.97	0.46
99:I9:12:DA:C2'	99:I9:13:DT:H72	2.46	0.46
101:IC:23:DC:H2'	101:IC:24:DT:H72	1.97	0.46
102:ID:17:DG:H1'	102:ID:18:DA:H5'	1.97	0.46
103:J1:10:DA:C2'	103:J1:11:DT:H72	2.46	0.46
105:J3:5:DA:C2'	105:J3:6:DT:H72	2.46	0.46
105:J3:16:DC:H2'	105:J3:17:DT:H72	1.97	0.46
105:J3:33:DG:H1'	105:J3:34:DA:H5'	1.98	0.46
108:J7:5:DG:H1'	108:J7:6:DA:H5'	1.97	0.46
108:J7:29:DT:H72	222:V3:4:DA:C2'	2.46	0.46
108:J7:43:DT:C6	108:J7:44:DT:H72	2.51	0.46
109:J8:38:DA:C2'	109:J8:39:DT:H72	2.46	0.46
111:JA:1:DT:C6	111:JA:2:DT:H72	2.51	0.46
117:K5:12:DT:H72	205:T5:9:DA:C2'	2.46	0.46
118:K6:5:DA:C2'	118:K6:6:DT:H72	2.46	0.46
119:K7:33:DC:H2'	119:K7:34:DT:H72	1.97	0.46
121:K9:14:DT:H72	145:MD:37:DA:C2'	2.46	0.46
123:KC:5:DA:C2'	123:KC:6:DT:H72	2.46	0.46
123:KC:23:DG:H1'	123:KC:24:DA:H5'	1.98	0.46
124:KD:7:DC:H2'	124:KD:8:DT:H72	1.97	0.46
128:L5:6:DC:H2'	128:L5:7:DT:H72	1.97	0.46
132:L9:17:DA:C2'	132:L9:18:DT:H72	2.46	0.46
136:M2:4:DA:C2'	136:M2:5:DT:H72	2.46	0.46
137:M3:13:DG:H1'	137:M3:14:DA:H5'	1.98	0.46
141:M8:24:DA:C2'	141:M8:25:DT:H72	2.46	0.46
145:MD:57:DA:C2'	145:MD:58:DT:H72	2.46	0.46
147:N3:13:DC:H2'	147:N3:14:DT:H72	1.97	0.46
150:N7:6:DG:H1'	150:N7:7:DA:H5'	1.98	0.46
152:N9:35:DA:C2'	152:N9:36:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
154:NC:18:DT:C6	154:NC:19:DT:H72	2.51	0.46
154:NC:32:DC:H2'	154:NC:33:DT:H72	1.97	0.46
156:O2:8:DC:H2'	156:O2:9:DT:H72	1.97	0.46
156:O2:24:DA:C2'	156:O2:25:DT:H72	2.46	0.46
159:O6:13:DA:C2'	159:O6:14:DT:H72	2.46	0.46
161:O8:51:DG:H1'	161:O8:52:DA:H5'	1.98	0.46
162:O9:5:DG:H1'	162:O9:6:DA:H5'	1.98	0.46
162:O9:12:DA:C2'	162:O9:13:DT:H72	2.46	0.46
162:O9:14:DA:H5'	191:RA:27:DG:H1'	1.98	0.46
163:OA:16:DA:C2'	163:OA:17:DT:H72	2.46	0.46
165:OD:24:DA:C2'	165:OD:25:DT:H72	2.46	0.46
165:OD:35:DG:H1'	165:OD:36:DA:H5'	1.98	0.46
177:Q3:9:DC:H2'	177:Q3:10:DT:H72	1.97	0.46
177:Q3:26:DA:C2'	177:Q3:27:DT:H72	2.46	0.46
178:Q5:12:DC:H2'	178:Q5:13:DT:H72	1.97	0.46
180:Q8:19:DA:C2'	180:Q8:20:DT:H72	2.46	0.46
184:QD:28:DA:C2'	184:QD:29:DT:H72	2.46	0.46
185:R2:21:DA:C2'	185:R2:22:DT:H72	2.46	0.46
187:R5:12:DC:H2'	187:R5:13:DT:H72	1.97	0.46
187:R5:21:DG:H1'	187:R5:22:DA:H5'	1.98	0.46
198:S8:6:DC:H2'	198:S8:7:DT:H72	1.97	0.46
202:SD:27:DA:C2'	202:SD:28:DT:H72	2.46	0.46
203:T2:17:DA:C2'	203:T2:18:DT:H72	2.46	0.46
207:T8:5:DA:C2'	207:T8:6:DT:H72	2.46	0.46
210:TC:17:DA:C2'	210:TC:18:DT:H72	2.46	0.46
211:TD:15:DA:C2'	211:TD:16:DT:H72	2.46	0.46
212:U2:17:DC:H2'	212:U2:18:DT:H72	1.97	0.46
214:U5:27:DG:H1'	214:U5:28:DA:H5'	1.98	0.46
214:U5:34:DA:C2'	214:U5:35:DT:H72	2.46	0.46
215:U7:5:DA:C2'	215:U7:6:DT:H72	2.46	0.46
216:U8:22:DT:C6	216:U8:23:DT:H72	2.51	0.46
217:U9:24:DG:H1'	217:U9:25:DA:H5'	1.98	0.46
219:UC:10:DT:C6	219:UC:11:DT:H72	2.51	0.46
219:UC:14:DA:C2'	219:UC:15:DT:H72	2.46	0.46
219:UC:27:DG:H1'	219:UC:28:DA:H5'	1.98	0.46
219:UC:35:DA:C2'	219:UC:36:DT:H72	2.46	0.46
222:V3:1:DA:C2'	222:V3:2:DT:H72	2.46	0.46
226:V9:8:DA:C2'	226:V9:9:DT:H72	2.46	0.46
226:V9:24:DG:H1'	226:V9:25:DA:H5'	1.98	0.46
228:VC:29:DG:H2''	228:VC:30:DC:O5'	2.13	0.46
233:W8:5:DA:C2'	233:W8:6:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
233:W8:19:DC:H2'	233:W8:20:DT:H72	1.96	0.46
236:X5:10:DA:C2'	236:X5:11:DT:H72	2.46	0.46
236:X5:20:DA:C2'	236:X5:21:DT:H72	2.46	0.46
238:X9:8:DA:C2'	238:X9:9:DT:H72	2.46	0.46
238:X9:16:DA:C2'	238:X9:17:DT:H72	2.46	0.46
5:A5:11:DT:C6	5:A5:12:DT:H72	2.51	0.46
5:A5:20:DT:C6	5:A5:21:DT:H72	2.51	0.46
6:A6:18:DA:C2'	6:A6:19:DT:H72	2.46	0.46
6:A6:21:DG:H1'	6:A6:22:DA:H5'	1.98	0.46
6:A6:24:DT:C6	6:A6:25:DT:H72	2.51	0.46
7:A7:19:DT:C6	7:A7:20:DT:H72	2.51	0.46
7:A7:26:DA:C2'	7:A7:27:DT:H72	2.46	0.46
7:A7:38:DT:C6	7:A7:39:DT:H72	2.51	0.46
8:A8:25:DT:C6	8:A8:26:DT:H72	2.51	0.46
9:A9:13:DA:C2'	9:A9:14:DT:H72	2.46	0.46
11:AB:1:DA:C2'	11:AB:2:DT:H72	2.46	0.46
11:AB:5:DA:C2'	11:AB:6:DT:H72	2.46	0.46
11:AB:10:DT:C6	11:AB:11:DT:H72	2.51	0.46
11:AB:35:DA:C2'	11:AB:36:DT:H72	2.46	0.46
11:AB:56:DA:C2'	11:AB:57:DT:H72	2.46	0.46
11:AB:70:DG:H1'	11:AB:71:DA:H5'	1.98	0.46
11:AB:161:DA:C2'	11:AB:162:DT:H72	2.46	0.46
11:AB:214:DT:C6	11:AB:215:DT:H72	2.51	0.46
11:AB:286:DA:C2'	11:AB:287:DT:H72	2.46	0.46
11:AB:403:DA:C2'	11:AB:404:DT:H72	2.46	0.46
11:AB:483:DG:H1'	11:AB:484:DA:H5'	1.98	0.46
11:AB:532:DA:C2'	11:AB:533:DT:H72	2.46	0.46
11:AB:571:DC:H2'	11:AB:572:DT:H72	1.97	0.46
11:AB:576:DC:H2'	11:AB:577:DT:H72	1.97	0.46
11:AB:579:DG:H1'	11:AB:580:DA:H5'	1.98	0.46
11:AB:740:DT:C6	11:AB:741:DT:H72	2.51	0.46
11:AB:755:DA:C2'	11:AB:756:DT:H72	2.46	0.46
11:AB:771:DT:C6	11:AB:772:DT:H72	2.51	0.46
11:AB:803:DT:C6	11:AB:804:DT:H72	2.51	0.46
11:AB:1147:DC:H2'	11:AB:1148:DT:H72	1.97	0.46
11:AB:1156:DA:C2'	11:AB:1157:DT:H72	2.46	0.46
11:AB:1171:DA:C2'	11:AB:1172:DT:H72	2.46	0.46
11:AB:1262:DA:C2'	11:AB:1263:DT:H72	2.46	0.46
11:AB:1297:DA:C2'	11:AB:1298:DT:H72	2.46	0.46
11:AB:1317:DG:H1'	11:AB:1318:DA:H5'	1.98	0.46
11:AB:1370:DC:H2'	11:AB:1371:DT:H72	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1412:DT:H72	11:AB:6159:DA:C2'	2.46	0.46
11:AB:1438:DT:C6	11:AB:1439:DT:H72	2.51	0.46
11:AB:1453:DA:C2'	11:AB:1454:DT:H72	2.46	0.46
11:AB:1506:DC:H2'	11:AB:1507:DT:H72	1.97	0.46
11:AB:1509:DT:C6	11:AB:1510:DT:H72	2.51	0.46
11:AB:1560:DC:H2'	11:AB:1561:DT:H72	1.97	0.46
11:AB:1569:DT:C6	11:AB:1570:DT:H72	2.51	0.46
11:AB:1631:DT:C6	11:AB:1632:DT:H72	2.51	0.46
11:AB:1693:DC:H2'	11:AB:1694:DT:H72	1.97	0.46
11:AB:1695:DC:H2'	11:AB:1696:DT:H72	1.97	0.46
11:AB:1710:DT:C6	11:AB:1711:DT:H72	2.51	0.46
11:AB:1740:DT:C6	11:AB:1741:DT:H72	2.51	0.46
11:AB:1804:DG:H1'	11:AB:1805:DA:H5'	1.98	0.46
11:AB:1876:DA:C2'	11:AB:1877:DT:H72	2.46	0.46
11:AB:1885:DT:C6	11:AB:1886:DT:H72	2.51	0.46
11:AB:1964:DT:C6	11:AB:1965:DT:H72	2.51	0.46
11:AB:2001:DG:H1'	11:AB:2002:DA:H5'	1.98	0.46
11:AB:2046:DT:C6	11:AB:2047:DT:H72	2.51	0.46
11:AB:2060:DT:C6	11:AB:2061:DT:H72	2.51	0.46
11:AB:2132:DT:C6	11:AB:2133:DT:H72	2.51	0.46
11:AB:2211:DC:H2'	11:AB:2212:DT:H72	1.97	0.46
11:AB:2290:DA:C2'	11:AB:2291:DT:H72	2.46	0.46
11:AB:2347:DT:C6	11:AB:2348:DT:H72	2.51	0.46
11:AB:2395:DT:C6	11:AB:2396:DT:H72	2.51	0.46
11:AB:2440:DA:C2'	11:AB:2441:DT:H72	2.46	0.46
11:AB:2625:DT:C6	11:AB:2626:DT:H72	2.51	0.46
11:AB:2689:DA:C2'	11:AB:2690:DT:H72	2.46	0.46
11:AB:2707:DT:C6	11:AB:2708:DT:H72	2.51	0.46
11:AB:2719:DA:C2'	11:AB:2720:DT:H72	2.46	0.46
11:AB:2738:DT:C6	11:AB:2739:DT:H72	2.51	0.46
11:AB:2785:DA:C2'	11:AB:2786:DT:H72	2.46	0.46
11:AB:2809:DA:C2'	11:AB:2810:DT:H72	2.46	0.46
11:AB:2846:DC:H2'	11:AB:2847:DT:H72	1.97	0.46
11:AB:2848:DT:C6	11:AB:2849:DT:H72	2.51	0.46
11:AB:2887:DG:H1'	11:AB:2888:DA:H5'	1.98	0.46
11:AB:2890:DT:C6	11:AB:2891:DT:H72	2.51	0.46
11:AB:2970:DA:C2'	11:AB:2971:DT:H72	2.46	0.46
11:AB:3003:DC:H2'	11:AB:3004:DT:H72	1.97	0.46
11:AB:3032:DT:C6	11:AB:3033:DT:H72	2.51	0.46
11:AB:3066:DG:H1'	11:AB:3067:DA:H5'	1.98	0.46
11:AB:3089:DA:C2'	11:AB:3090:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3098:DA:C2'	11:AB:3099:DT:H72	2.46	0.46
11:AB:3194:DT:C6	11:AB:3195:DT:H72	2.51	0.46
11:AB:3320:DC:H2'	11:AB:3321:DT:H72	1.97	0.46
11:AB:3389:DT:C6	11:AB:3390:DT:H72	2.51	0.46
11:AB:3410:DT:C6	11:AB:3411:DT:H72	2.51	0.46
11:AB:3467:DT:C6	11:AB:3468:DT:H72	2.51	0.46
11:AB:3500:DC:H2'	11:AB:3501:DT:H72	1.97	0.46
11:AB:3509:DC:H2'	11:AB:3510:DT:H72	1.97	0.46
11:AB:3581:DA:C2'	11:AB:3582:DT:H72	2.46	0.46
11:AB:3639:DT:C6	11:AB:3640:DT:H72	2.51	0.46
11:AB:3695:DC:H2'	11:AB:3696:DT:H72	1.97	0.46
11:AB:3707:DA:C2'	11:AB:3708:DT:H72	2.46	0.46
11:AB:3724:DA:C2'	11:AB:3725:DT:H72	2.46	0.46
11:AB:3800:DT:C6	11:AB:3801:DT:H72	2.51	0.46
11:AB:3830:DC:H2'	11:AB:3831:DT:H72	1.97	0.46
11:AB:3833:DC:H2'	11:AB:3834:DT:H72	1.97	0.46
11:AB:3884:DA:C2'	11:AB:3885:DT:H72	2.46	0.46
11:AB:3948:DT:C6	11:AB:3949:DT:H72	2.51	0.46
11:AB:3988:DC:H2'	11:AB:3989:DT:H72	1.97	0.46
11:AB:4133:DG:H2''	11:AB:4134:DC:O5'	2.13	0.46
11:AB:4181:DT:C6	11:AB:4182:DT:H72	2.51	0.46
11:AB:4242:DC:H2'	11:AB:4243:DT:H72	1.97	0.46
11:AB:4268:DC:H2'	11:AB:4269:DT:H72	1.97	0.46
11:AB:4280:DG:H1'	11:AB:4281:DA:H5'	1.98	0.46
11:AB:4285:DT:C6	11:AB:4286:DT:H72	2.51	0.46
11:AB:4363:DT:C6	11:AB:4364:DT:H72	2.51	0.46
11:AB:4438:DG:H1'	11:AB:4439:DA:H5'	1.98	0.46
11:AB:4510:DG:H2''	11:AB:4511:DC:O5'	2.13	0.46
11:AB:4533:DC:H2'	11:AB:4534:DT:H72	1.97	0.46
11:AB:4640:DT:C6	11:AB:4641:DT:H72	2.51	0.46
11:AB:4663:DG:H1'	11:AB:4664:DA:H5'	1.98	0.46
11:AB:4723:DA:C2'	11:AB:4724:DT:H72	2.46	0.46
11:AB:4755:DG:H1'	11:AB:4756:DA:H5'	1.98	0.46
11:AB:4872:DT:C6	11:AB:4873:DT:H72	2.51	0.46
11:AB:4938:DC:H2'	11:AB:4939:DT:H72	1.97	0.46
11:AB:4939:DT:C6	11:AB:4940:DT:H72	2.51	0.46
11:AB:4961:DG:H1'	11:AB:4962:DA:H5'	1.97	0.46
11:AB:4971:DG:H2''	11:AB:4972:DC:O5'	2.13	0.46
11:AB:5063:DC:H2'	11:AB:5064:DT:H72	1.97	0.46
11:AB:5359:DA:C2'	11:AB:5360:DT:H72	2.46	0.46
11:AB:5419:DA:C2'	11:AB:5420:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5430:DG:H2'	11:AB:5431:DC:O5'	2.13	0.46
11:AB:5443:DT:C6	11:AB:5444:DT:H72	2.51	0.46
11:AB:5455:DG:H1'	11:AB:5456:DA:H5'	1.98	0.46
11:AB:5469:DC:H2'	11:AB:5470:DT:H72	1.97	0.46
11:AB:5486:DA:C2'	11:AB:5487:DT:H72	2.46	0.46
11:AB:5509:DC:H2'	11:AB:5510:DT:H72	1.97	0.46
11:AB:5560:DG:H1'	11:AB:5561:DA:H5'	1.97	0.46
11:AB:5580:DT:C6	11:AB:5581:DT:H72	2.51	0.46
11:AB:5600:DC:H2'	11:AB:5601:DT:H72	1.97	0.46
11:AB:5606:DC:H2'	11:AB:5607:DT:H72	1.97	0.46
11:AB:5643:DA:C2'	11:AB:5644:DT:H72	2.46	0.46
11:AB:5654:DA:C2'	11:AB:5655:DT:H72	2.46	0.46
11:AB:5679:DT:C6	11:AB:5680:DT:H72	2.51	0.46
11:AB:5697:DT:C6	11:AB:5698:DT:H72	2.51	0.46
11:AB:5723:DA:C2'	11:AB:5724:DT:H72	2.46	0.46
11:AB:5726:DA:C2'	11:AB:5727:DT:H72	2.46	0.46
11:AB:5787:DT:C6	11:AB:5788:DT:H72	2.51	0.46
11:AB:5790:DT:C6	11:AB:5791:DT:H72	2.51	0.46
11:AB:5795:DC:H2'	11:AB:5796:DT:H72	1.97	0.46
11:AB:5808:DT:C6	11:AB:5809:DT:H72	2.51	0.46
11:AB:5812:DT:C6	11:AB:5813:DT:H72	2.51	0.46
11:AB:5842:DA:C2'	11:AB:5843:DT:H72	2.46	0.46
11:AB:5894:DT:C6	11:AB:5895:DT:H72	2.51	0.46
11:AB:5939:DC:H2'	11:AB:5940:DT:H72	1.97	0.46
11:AB:6020:DT:C6	11:AB:6021:DT:H72	2.51	0.46
11:AB:6110:DA:C2'	11:AB:6111:DT:H72	2.46	0.46
11:AB:6128:DT:C6	11:AB:6129:DT:H72	2.51	0.46
11:AB:6161:DT:C6	11:AB:6162:DT:H72	2.51	0.46
11:AB:6182:DC:H2'	11:AB:6183:DT:H72	1.97	0.46
11:AB:6221:DT:C6	11:AB:6222:DT:H72	2.51	0.46
11:AB:6231:DC:H2'	11:AB:6232:DT:H72	1.97	0.46
11:AB:6264:DT:C6	11:AB:6265:DT:H72	2.51	0.46
11:AB:6273:DA:C2'	11:AB:6274:DT:H72	2.46	0.46
11:AB:6323:DT:C6	11:AB:6324:DT:H72	2.51	0.46
11:AB:6350:DC:H2'	11:AB:6351:DT:H72	1.97	0.46
11:AB:6396:DT:C6	11:AB:6397:DT:H72	2.51	0.46
11:AB:6424:DT:C6	11:AB:6425:DT:H72	2.51	0.46
11:AB:6503:DC:H2'	11:AB:6504:DT:H72	1.97	0.46
11:AB:6569:DT:C6	11:AB:6570:DT:H72	2.51	0.46
11:AB:6657:DT:C6	11:AB:6658:DT:H72	2.51	0.46
11:AB:6778:DA:C2'	11:AB:6779:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6829:DA:C2'	11:AB:6830:DT:H72	2.46	0.46
11:AB:6879:DT:C6	11:AB:6880:DT:H72	2.51	0.46
11:AB:6945:DT:C6	11:AB:6946:DT:H72	2.51	0.46
11:AB:7035:DT:C6	11:AB:7036:DT:H72	2.51	0.46
11:AB:7121:DA:C2'	11:AB:7122:DT:H72	2.46	0.46
11:AB:7188:DC:H2'	11:AB:7189:DT:H72	1.97	0.46
11:AB:7237:DC:H2'	11:AB:7238:DT:H72	1.97	0.46
12:AC:9:DA:C2'	12:AC:10:DT:H72	2.46	0.46
15:B2:17:DA:C2'	15:B2:18:DT:H72	2.46	0.46
16:B3:14:DT:C6	16:B3:15:DT:H72	2.51	0.46
17:B4:20:DC:H2'	17:B4:21:DT:H72	1.97	0.46
18:B5:19:DT:C6	18:B5:20:DT:H72	2.51	0.46
18:B5:20:DT:C6	18:B5:21:DT:H72	2.51	0.46
19:B6:20:DA:C2'	19:B6:21:DT:H72	2.46	0.46
21:B8:23:DT:H72	139:M6:14:DA:C2'	2.46	0.46
22:B9:11:DG:H1'	22:B9:12:DA:H5'	1.97	0.46
22:B9:39:DT:C6	22:B9:40:DT:H72	2.51	0.46
24:BC:32:DT:C6	24:BC:33:DT:H72	2.51	0.46
25:BD:7:DG:H1'	25:BD:8:DA:H5'	1.98	0.46
26:C1:6:DA:C2'	26:C1:7:DT:H72	2.46	0.46
26:C1:14:DC:H2'	26:C1:15:DT:H72	1.97	0.46
26:C1:20:DA:C2'	26:C1:21:DT:H72	2.46	0.46
26:C1:22:DA:C2'	26:C1:23:DT:H72	2.46	0.46
27:C2:7:DC:H2'	27:C2:8:DT:H72	1.97	0.46
27:C2:9:DG:H1'	27:C2:10:DA:H5'	1.97	0.46
30:C6:27:DT:C6	30:C6:28:DT:H72	2.51	0.46
31:C7:27:DT:C6	31:C7:28:DT:H72	2.51	0.46
32:C8:11:DT:C6	32:C8:12:DT:H72	2.51	0.46
37:D1:4:DT:C6	37:D1:5:DT:H72	2.51	0.46
41:D6:6:DC:H2'	41:D6:7:DT:H72	1.97	0.46
43:D8:5:DG:H1'	43:D8:6:DA:H5'	1.98	0.46
44:D9:10:DC:H2'	44:D9:11:DT:H72	1.97	0.46
45:DA:20:DG:H1'	45:DA:21:DA:H5'	1.98	0.46
49:E2:20:DA:C2'	49:E2:21:DT:H72	2.46	0.46
51:E5:31:DT:C6	51:E5:32:DT:H72	2.51	0.46
53:E7:9:DT:C6	53:E7:10:DT:H72	2.51	0.46
57:EC:19:DA:C2'	57:EC:20:DT:H72	2.46	0.46
69:FD:40:DG:H1'	69:FD:41:DA:H5'	1.98	0.46
72:G3:15:DC:H2'	72:G3:16:DT:H72	1.97	0.46
72:G3:17:DA:C2'	72:G3:18:DT:H72	2.46	0.46
80:GD:6:DA:C2'	80:GD:7:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:H2:47:DG:H2''	82:H2:48:DC:O5'	2.13	0.46
83:H3:8:DT:C6	83:H3:9:DT:H72	2.51	0.46
86:H7:14:DG:H1'	86:H7:15:DA:H5'	1.98	0.46
88:H9:6:DA:C2'	88:H9:7:DT:H72	2.46	0.46
89:HA:20:DG:H1'	89:HA:21:DA:H5'	1.98	0.46
91:HD:17:DG:H2''	91:HD:18:DC:O5'	2.13	0.46
92:I1:17:DG:H2''	92:I1:18:DC:O5'	2.13	0.46
92:I1:19:DA:C2'	92:I1:20:DT:H72	2.46	0.46
93:I2:43:DC:H2'	93:I2:44:DT:H72	1.97	0.46
93:I2:46:DC:H2'	93:I2:47:DT:H72	1.97	0.46
95:I5:29:DA:H5'	223:V5:6:DG:H1'	1.98	0.46
96:I6:1:DT:C6	96:I6:2:DT:H72	2.51	0.46
96:I6:11:DT:C6	96:I6:12:DT:H72	2.51	0.46
98:I8:22:DA:C2'	98:I8:23:DT:H72	2.46	0.46
98:I8:42:DT:C6	98:I8:43:DT:H72	2.51	0.46
100:IA:13:DA:C2'	100:IA:14:DT:H72	2.46	0.46
101:IC:5:DG:H2''	101:IC:6:DC:O5'	2.13	0.46
101:IC:11:DA:C2'	101:IC:12:DT:H72	2.46	0.46
105:J3:18:DT:C6	105:J3:19:DT:H72	2.51	0.46
108:J7:2:DA:C2'	108:J7:3:DT:H72	2.46	0.46
108:J7:26:DA:C2'	108:J7:27:DT:H72	2.46	0.46
113:JD:19:DA:C2'	113:JD:20:DT:H72	2.46	0.46
113:JD:22:DT:H72	190:R9:11:DA:C2'	2.46	0.46
118:K6:18:DG:H1'	118:K6:19:DA:H5'	1.98	0.46
120:K8:12:DT:H72	185:R2:7:DA:C2'	2.46	0.46
122:KA:28:DG:H1'	124:KD:17:DA:H5'	1.98	0.46
122:KA:48:DA:C2'	122:KA:49:DT:H72	2.46	0.46
124:KD:8:DT:C6	124:KD:9:DT:H72	2.51	0.46
125:L1:42:DA:C2'	125:L1:43:DT:H72	2.46	0.46
126:L2:30:DA:C2'	126:L2:31:DT:H72	2.46	0.46
127:L3:12:DA:C2'	127:L3:13:DT:H72	2.46	0.46
127:L3:17:DC:H2'	127:L3:18:DT:H72	1.97	0.46
129:L6:15:DA:C2'	129:L6:16:DT:H72	2.46	0.46
130:L7:19:DA:C2'	130:L7:20:DT:H72	2.46	0.46
130:L7:50:DT:C6	130:L7:51:DT:H72	2.51	0.46
133:LA:1:DT:H72	227:VA:29:DA:C2'	2.46	0.46
135:LD:8:DT:C6	135:LD:9:DT:H72	2.51	0.46
135:LD:14:DA:H5'	143:MA:41:DG:H1'	1.98	0.46
137:M3:20:DA:C2'	137:M3:21:DT:H72	2.46	0.46
137:M3:27:DT:C6	137:M3:28:DT:H72	2.51	0.46
138:M5:17:DA:C2'	138:M5:18:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
139:M6:13:DG:H1'	139:M6:14:DA:H5'	1.98	0.46
142:M9:9:DA:C2'	142:M9:10:DT:H72	2.46	0.46
143:MA:7:DA:C2'	143:MA:8:DT:H72	2.46	0.46
144:MC:22:DT:C6	144:MC:23:DT:H72	2.51	0.46
145:MD:10:DT:C6	145:MD:11:DT:H72	2.51	0.46
147:N3:26:DC:H2'	147:N3:27:DT:H72	1.97	0.46
149:N6:28:DA:C2'	149:N6:29:DT:H72	2.46	0.46
152:N9:27:DC:H2'	152:N9:28:DT:H72	1.97	0.46
154:NC:30:DG:H2''	154:NC:31:DC:O5'	2.13	0.46
157:O3:23:DT:C6	157:O3:24:DT:H72	2.51	0.46
158:O5:12:DA:C2'	158:O5:13:DT:H72	2.46	0.46
158:O5:43:DA:C2'	158:O5:44:DT:H72	2.46	0.46
161:O8:17:DC:H2'	161:O8:18:DT:H72	1.97	0.46
165:OD:29:DG:H1'	165:OD:30:DA:H5'	1.98	0.46
166:P2:34:DT:C6	166:P2:35:DT:H72	2.51	0.46
167:P3:37:DG:H1'	167:P3:38:DA:H5'	1.98	0.46
171:P8:20:DA:C2'	171:P8:21:DT:H72	2.46	0.46
178:Q5:26:DA:C2'	178:Q5:27:DT:H72	2.46	0.46
179:Q7:25:DG:H1'	179:Q7:26:DA:H5'	1.97	0.46
180:Q8:14:DA:C2'	180:Q8:15:DT:H72	2.46	0.46
180:Q8:17:DA:C2'	180:Q8:18:DT:H72	2.46	0.46
182:QA:15:DG:H1'	182:QA:16:DA:H5'	1.98	0.46
184:QD:26:DA:C2'	184:QD:27:DT:H72	2.46	0.46
186:R3:14:DT:H72	204:T3:7:DC:H2'	1.97	0.46
189:R8:25:DT:C6	189:R8:26:DT:H72	2.51	0.46
189:R8:32:DA:C2'	189:R8:33:DT:H72	2.46	0.46
190:R9:36:DT:C6	190:R9:37:DT:H72	2.51	0.46
190:R9:37:DT:C6	190:R9:38:DT:H72	2.51	0.46
191:RA:28:DT:C6	191:RA:29:DT:H72	2.51	0.46
193:RD:9:DA:C2'	193:RD:10:DT:H72	2.46	0.46
194:S2:20:DA:C2'	194:S2:21:DT:H72	2.46	0.46
196:S5:24:DC:H2'	196:S5:25:DT:H72	1.97	0.46
199:S9:10:DG:H2''	199:S9:11:DC:O5'	2.13	0.46
202:SD:6:DG:H1'	202:SD:7:DA:H5'	1.98	0.46
212:U2:14:DA:C2'	212:U2:15:DT:H72	2.46	0.46
214:U5:23:DT:C6	214:U5:24:DT:H72	2.51	0.46
214:U5:40:DT:C6	214:U5:41:DT:H72	2.51	0.46
214:U5:41:DT:C6	214:U5:42:DT:H72	2.51	0.46
216:U8:9:DT:C6	216:U8:10:DT:H72	2.51	0.46
222:V3:8:DT:C6	222:V3:9:DT:H72	2.51	0.46
222:V3:19:DT:C6	222:V3:20:DT:H72	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
223:V5:40:DT:C6	223:V5:41:DT:H72	2.51	0.46
225:V8:22:DG:H1'	225:V8:23:DA:H5'	1.98	0.46
227:VA:5:DG:H1'	227:VA:6:DA:H5'	1.98	0.46
230:W3:32:DT:C6	230:W3:33:DT:H72	2.51	0.46
232:W7:19:DG:H2''	232:W7:20:DC:O5'	2.13	0.46
238:X9:30:DA:C2'	238:X9:31:DT:H72	2.46	0.46
1:A1:12:DA:C2'	18:B5:1:DT:H72	2.46	0.46
5:A5:36:DT:H72	37:D1:14:DA:C2'	2.46	0.46
8:A8:13:DT:C6	8:A8:14:DT:H72	2.51	0.46
9:A9:1:DT:C6	9:A9:2:DT:H72	2.51	0.46
11:AB:172:DT:C6	11:AB:173:DT:H72	2.51	0.46
11:AB:177:DT:C6	11:AB:178:DT:H72	2.51	0.46
11:AB:181:DT:C6	11:AB:182:DT:H72	2.51	0.46
11:AB:207:DG:H1'	11:AB:208:DA:H5'	1.98	0.46
11:AB:290:DT:C6	11:AB:291:DT:H72	2.51	0.46
11:AB:301:DA:C2'	11:AB:302:DT:H72	2.46	0.46
11:AB:416:DC:H2'	11:AB:417:DT:H72	1.97	0.46
11:AB:614:DG:H1'	11:AB:615:DA:H5'	1.98	0.46
11:AB:793:DA:C2'	11:AB:794:DT:H72	2.46	0.46
11:AB:886:DG:H2''	11:AB:887:DC:O5'	2.13	0.46
11:AB:891:DG:H1'	11:AB:892:DA:H5'	1.98	0.46
11:AB:959:DC:H2'	11:AB:960:DT:H72	1.97	0.46
11:AB:1048:DC:H2'	11:AB:1049:DT:H72	1.97	0.46
11:AB:1085:DT:C6	11:AB:1086:DT:H72	2.51	0.46
11:AB:1111:DT:C6	11:AB:1112:DT:H72	2.51	0.46
11:AB:1120:DT:C6	11:AB:1121:DT:H72	2.51	0.46
11:AB:1158:DT:C6	11:AB:1159:DT:H72	2.51	0.46
11:AB:1159:DT:C6	11:AB:1160:DT:H72	2.51	0.46
11:AB:1219:DA:C2'	11:AB:1220:DT:H72	2.46	0.46
11:AB:1235:DT:C6	11:AB:1236:DT:H72	2.51	0.46
11:AB:1241:DT:C6	11:AB:1242:DT:H72	2.51	0.46
11:AB:1245:DC:H2'	11:AB:1246:DT:H72	1.97	0.46
11:AB:1313:DT:C6	11:AB:1314:DT:H72	2.51	0.46
11:AB:1383:DT:C6	11:AB:1384:DT:H72	2.51	0.46
11:AB:1384:DT:C6	11:AB:1385:DT:H72	2.51	0.46
11:AB:1392:DT:C6	11:AB:1393:DT:H72	2.51	0.46
11:AB:1503:DT:C6	11:AB:1504:DT:H72	2.51	0.46
11:AB:1507:DT:C6	11:AB:1508:DT:H72	2.51	0.46
11:AB:1545:DT:C6	11:AB:1546:DT:H72	2.51	0.46
11:AB:1546:DT:C6	11:AB:1547:DT:H72	2.51	0.46
11:AB:1554:DT:C6	11:AB:1555:DT:H72	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1574:DC:H2'	11:AB:1575:DT:H72	1.97	0.46
11:AB:1575:DT:C6	11:AB:1576:DT:H72	2.51	0.46
11:AB:1624:DC:H2'	11:AB:1625:DT:H72	1.97	0.46
11:AB:1686:DT:C6	11:AB:1687:DT:H72	2.51	0.46
11:AB:1689:DT:C6	11:AB:1690:DT:H72	2.51	0.46
11:AB:1719:DT:C6	11:AB:1720:DT:H72	2.51	0.46
11:AB:1786:DC:H2'	11:AB:1787:DT:H72	1.97	0.46
11:AB:1952:DT:C6	11:AB:1953:DT:H72	2.51	0.46
11:AB:2093:DT:C6	11:AB:2094:DT:H72	2.51	0.46
11:AB:2098:DT:C6	11:AB:2099:DT:H72	2.51	0.46
11:AB:2100:DC:H2'	11:AB:2101:DT:H72	1.97	0.46
11:AB:2107:DC:H2'	11:AB:2108:DT:H72	1.97	0.46
11:AB:2136:DC:H2'	11:AB:2137:DT:H72	1.97	0.46
11:AB:2148:DT:C6	11:AB:2149:DT:H72	2.51	0.46
11:AB:2150:DA:C2'	11:AB:2151:DT:H72	2.46	0.46
11:AB:2154:DA:C2'	11:AB:2155:DT:H72	2.46	0.46
11:AB:2176:DC:H2'	11:AB:2177:DT:H72	1.97	0.46
11:AB:2233:DT:C6	11:AB:2234:DT:H72	2.51	0.46
11:AB:2243:DT:C6	11:AB:2244:DT:H72	2.51	0.46
11:AB:2254:DT:C6	11:AB:2255:DT:H72	2.51	0.46
11:AB:2260:DC:H2'	11:AB:2261:DT:H72	1.97	0.46
11:AB:2308:DA:C2'	11:AB:2309:DT:H72	2.46	0.46
11:AB:2332:DC:H2'	11:AB:2333:DT:H72	1.97	0.46
11:AB:2335:DT:C6	11:AB:2336:DT:H72	2.51	0.46
11:AB:2346:DC:H2'	11:AB:2347:DT:H72	1.97	0.46
11:AB:2362:DA:C2'	11:AB:2363:DT:H72	2.46	0.46
11:AB:2442:DT:C6	11:AB:5367:DT:H72	2.51	0.46
11:AB:2504:DA:C2'	11:AB:2505:DT:H72	2.46	0.46
11:AB:2508:DT:C6	11:AB:2509:DT:H72	2.51	0.46
11:AB:2527:DT:C6	11:AB:5284:DT:H72	2.51	0.46
11:AB:2536:DT:C6	11:AB:2537:DT:H72	2.51	0.46
11:AB:2650:DC:H2'	11:AB:2651:DT:H72	1.97	0.46
11:AB:2690:DT:C6	11:AB:2691:DT:H72	2.51	0.46
11:AB:2692:DC:H2'	11:AB:2693:DT:H72	1.97	0.46
11:AB:2702:DA:C2'	11:AB:2703:DT:H72	2.46	0.46
11:AB:2816:DT:C6	11:AB:2817:DT:H72	2.51	0.46
11:AB:2824:DT:C6	11:AB:2825:DT:H72	2.51	0.46
11:AB:2830:DT:C6	11:AB:2831:DT:H72	2.51	0.46
11:AB:2849:DT:C6	11:AB:2850:DT:H72	2.51	0.46
11:AB:2957:DT:C6	11:AB:2958:DT:H72	2.51	0.46
11:AB:3014:DT:C6	11:AB:3015:DT:H72	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3031:DT:C6	11:AB:3032:DT:H72	2.51	0.46
11:AB:3054:DT:C6	11:AB:3055:DT:H72	2.51	0.46
11:AB:3261:DT:C6	11:AB:3262:DT:H72	2.51	0.46
11:AB:3267:DA:C2'	11:AB:3268:DT:H72	2.46	0.46
11:AB:3331:DT:C6	11:AB:3332:DT:H72	2.51	0.46
11:AB:3340:DC:H2'	11:AB:3341:DT:H72	1.97	0.46
11:AB:3382:DA:C2'	11:AB:3383:DT:H72	2.46	0.46
11:AB:3399:DG:H1'	11:AB:3400:DA:H5'	1.98	0.46
11:AB:3430:DG:H1'	11:AB:3431:DA:H5'	1.98	0.46
11:AB:3435:DT:C6	11:AB:3436:DT:H72	2.51	0.46
11:AB:3446:DC:H2'	11:AB:3447:DT:H72	1.97	0.46
11:AB:3493:DC:H2'	11:AB:3494:DT:H72	1.97	0.46
11:AB:3510:DT:C6	11:AB:3511:DT:H72	2.51	0.46
11:AB:3515:DC:H2'	11:AB:3516:DT:H72	1.97	0.46
11:AB:3548:DT:C6	11:AB:3549:DT:H72	2.51	0.46
11:AB:3587:DA:C2'	11:AB:3588:DT:H72	2.46	0.46
11:AB:3595:DA:C2'	11:AB:3596:DT:H72	2.46	0.46
11:AB:3613:DA:C2'	11:AB:3614:DT:H72	2.46	0.46
11:AB:3667:DT:C6	11:AB:3668:DT:H72	2.51	0.46
11:AB:3686:DC:H2'	11:AB:3687:DT:H72	1.97	0.46
11:AB:3737:DA:C2'	11:AB:3738:DT:H72	2.46	0.46
11:AB:3745:DA:C2'	11:AB:3746:DT:H72	2.46	0.46
11:AB:3793:DC:H2'	11:AB:3794:DT:H72	1.97	0.46
11:AB:3815:DA:C2'	11:AB:3816:DT:H72	2.46	0.46
11:AB:3827:DC:H2'	11:AB:3828:DT:H72	1.97	0.46
11:AB:3968:DC:H2'	11:AB:3969:DT:H72	1.97	0.46
11:AB:4066:DC:H2'	11:AB:4067:DT:H72	1.97	0.46
11:AB:4160:DT:C6	11:AB:4161:DT:H72	2.51	0.46
11:AB:4209:DA:C2'	11:AB:4210:DT:H72	2.46	0.46
11:AB:4222:DT:C6	11:AB:4223:DT:H72	2.51	0.46
11:AB:4243:DT:C6	11:AB:4244:DT:H72	2.51	0.46
11:AB:4273:DT:C6	11:AB:4274:DT:H72	2.51	0.46
11:AB:4300:DA:C2'	11:AB:4301:DT:H72	2.46	0.46
11:AB:4307:DG:H1'	11:AB:4308:DA:H5'	1.98	0.46
11:AB:4308:DA:C2'	11:AB:4309:DT:H72	2.46	0.46
11:AB:4318:DT:C6	11:AB:4319:DT:H72	2.51	0.46
11:AB:4322:DG:H2''	11:AB:4323:DC:O5'	2.13	0.46
11:AB:4434:DT:C6	11:AB:4435:DT:H72	2.51	0.46
11:AB:4608:DG:H2''	11:AB:4609:DC:O5'	2.13	0.46
11:AB:4686:DT:C6	11:AB:4687:DT:H72	2.51	0.46
11:AB:4750:DA:C2'	11:AB:4751:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5116:DG:H1'	11:AB:5117:DA:H5'	1.98	0.46
11:AB:5130:DA:C2'	11:AB:5131:DT:H72	2.46	0.46
11:AB:5209:DT:C6	11:AB:5210:DT:H72	2.51	0.46
11:AB:5222:DT:C6	11:AB:5223:DT:H72	2.51	0.46
11:AB:5232:DA:C2'	11:AB:5233:DT:H72	2.46	0.46
11:AB:5305:DA:C2'	11:AB:5306:DT:H72	2.46	0.46
11:AB:5316:DA:C2'	11:AB:5317:DT:H72	2.46	0.46
11:AB:5318:DT:C6	11:AB:5319:DT:H72	2.51	0.46
11:AB:5338:DA:C2'	11:AB:5339:DT:H72	2.46	0.46
11:AB:5355:DT:C6	11:AB:5356:DT:H72	2.51	0.46
11:AB:5393:DT:C6	11:AB:5394:DT:H72	2.51	0.46
11:AB:5397:DC:H2'	11:AB:5398:DT:H72	1.97	0.46
11:AB:5435:DT:C6	11:AB:5436:DT:H72	2.51	0.46
11:AB:5437:DT:C6	11:AB:5438:DT:H72	2.51	0.46
11:AB:5449:DT:C6	11:AB:5450:DT:H72	2.51	0.46
11:AB:5466:DT:C6	11:AB:5467:DT:H72	2.51	0.46
11:AB:5569:DA:C2'	11:AB:5570:DT:H72	2.46	0.46
11:AB:5585:DC:H2'	11:AB:5586:DT:H72	1.97	0.46
11:AB:5598:DT:C6	11:AB:5599:DT:H72	2.51	0.46
11:AB:5652:DA:C2'	11:AB:5653:DT:H72	2.46	0.46
11:AB:5791:DT:C6	11:AB:5792:DT:H72	2.51	0.46
11:AB:5809:DT:C6	11:AB:5810:DT:H72	2.51	0.46
11:AB:5918:DC:H2'	11:AB:5919:DT:H72	1.97	0.46
11:AB:5996:DC:H2'	11:AB:5997:DT:H72	1.97	0.46
11:AB:6009:DT:C6	11:AB:6010:DT:H72	2.51	0.46
11:AB:6032:DA:C2'	11:AB:6033:DT:H72	2.46	0.46
11:AB:6051:DC:H2'	11:AB:6052:DT:H72	1.97	0.46
11:AB:6105:DC:H2'	11:AB:6106:DT:H72	1.97	0.46
11:AB:6132:DT:C6	11:AB:6133:DT:H72	2.51	0.46
11:AB:6174:DT:C6	11:AB:6175:DT:H72	2.51	0.46
11:AB:6208:DG:H1'	11:AB:6209:DA:H5'	1.98	0.46
11:AB:6250:DG:H1'	11:AB:6251:DA:H5'	1.98	0.46
11:AB:6255:DG:H1'	11:AB:6256:DA:H5'	1.98	0.46
11:AB:6256:DA:C2'	11:AB:6257:DT:H72	2.46	0.46
11:AB:6258:DT:C6	11:AB:6259:DT:H72	2.51	0.46
11:AB:6301:DT:C6	11:AB:6302:DT:H72	2.51	0.46
11:AB:6304:DG:H1'	11:AB:6305:DA:H5'	1.98	0.46
11:AB:6416:DA:C2'	11:AB:6417:DT:H72	2.46	0.46
11:AB:6418:DT:C6	11:AB:6419:DT:H72	2.51	0.46
11:AB:6548:DT:C6	11:AB:6549:DT:H72	2.51	0.46
11:AB:6587:DT:C6	11:AB:6588:DT:H72	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6597:DT:C6	11:AB:6598:DT:H72	2.51	0.46
11:AB:6667:DT:C6	11:AB:6668:DT:H72	2.51	0.46
11:AB:6718:DT:C6	11:AB:6719:DT:H72	2.51	0.46
11:AB:6721:DC:H2'	11:AB:6722:DT:H72	1.97	0.46
11:AB:6756:DC:H2'	11:AB:6757:DT:H72	1.97	0.46
11:AB:6802:DT:C6	11:AB:6803:DT:H72	2.51	0.46
11:AB:6805:DC:H2'	11:AB:6806:DT:H72	1.97	0.46
11:AB:6808:DT:C6	11:AB:6809:DT:H72	2.51	0.46
11:AB:6864:DT:C6	11:AB:6865:DT:H72	2.51	0.46
11:AB:6913:DT:C6	11:AB:6914:DT:H72	2.51	0.46
11:AB:7034:DT:C6	11:AB:7035:DT:H72	2.51	0.46
11:AB:7055:DT:C6	11:AB:7056:DT:H72	2.51	0.46
11:AB:7056:DT:C6	11:AB:7057:DT:H72	2.51	0.46
11:AB:7094:DT:C6	11:AB:7095:DT:H72	2.51	0.46
11:AB:7170:DT:C6	11:AB:7171:DT:H72	2.51	0.46
12:AC:13:DT:C6	12:AC:14:DT:H72	2.51	0.46
13:AD:39:DT:C6	13:AD:40:DT:H72	2.51	0.46
13:AD:41:DT:C6	13:AD:42:DT:H72	2.51	0.46
14:B1:18:DG:H1'	14:B1:19:DA:H5'	1.98	0.46
18:B5:17:DC:H2'	18:B5:18:DT:H72	1.97	0.46
19:B6:6:DA:C2'	19:B6:7:DT:H72	2.46	0.46
20:B7:14:DT:C6	20:B7:15:DT:H72	2.51	0.46
21:B8:23:DT:C6	21:B8:24:DT:H72	2.51	0.46
22:B9:43:DC:H2'	22:B9:44:DT:H72	1.97	0.46
23:BA:10:DG:H1'	23:BA:11:DA:H5'	1.98	0.46
24:BC:41:DC:H2'	57:EC:8:DT:H72	1.97	0.46
26:C1:12:DT:C6	26:C1:13:DT:H72	2.51	0.46
28:C3:11:DA:C2'	28:C3:12:DT:H72	2.46	0.46
29:C5:42:DG:H2'	223:V5:1:DC:O5'	2.13	0.46
30:C6:41:DG:H1'	30:C6:42:DA:H5'	1.98	0.46
31:C7:5:DT:C6	49:E2:31:DT:H72	2.51	0.46
31:C7:11:DT:C6	31:C7:12:DT:H72	2.51	0.46
37:D1:6:DA:C2'	37:D1:7:DT:H72	2.46	0.46
40:D5:8:DA:C2'	40:D5:9:DT:H72	2.46	0.46
40:D5:20:DA:C2'	40:D5:21:DT:H72	2.46	0.46
41:D6:40:DT:C6	41:D6:41:DT:H72	2.51	0.46
43:D8:2:DA:C2'	43:D8:3:DT:H72	2.46	0.46
43:D8:18:DC:H2'	43:D8:19:DT:H72	1.97	0.46
45:DA:22:DG:H1'	45:DA:23:DA:H5'	1.98	0.46
48:E1:19:DA:C2'	48:E1:20:DT:H72	2.46	0.46
50:E3:11:DT:C6	50:E3:12:DT:H72	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:E8:21:DC:H2'	54:E8:22:DT:H72	1.97	0.46
54:E8:32:DT:C6	54:E8:33:DT:H72	2.51	0.46
55:E9:5:DT:C6	55:E9:6:DT:H72	2.51	0.46
55:E9:34:DA:C2'	238:X9:32:DT:H72	2.46	0.46
56:EA:6:DT:C6	56:EA:7:DT:H72	2.51	0.46
62:F5:20:DC:H2'	62:F5:21:DT:H72	1.97	0.46
71:G2:6:DC:H2'	71:G2:7:DT:H72	1.97	0.46
74:G6:18:DA:C2'	74:G6:19:DT:H72	2.46	0.46
74:G6:31:DA:C2'	74:G6:32:DT:H72	2.46	0.46
75:G7:12:DT:H72	104:J2:35:DA:C2'	2.46	0.46
77:G9:6:DT:C6	77:G9:7:DT:H72	2.51	0.46
77:G9:14:DT:C6	77:G9:15:DT:H72	2.51	0.46
77:G9:15:DT:C6	77:G9:16:DT:H72	2.51	0.46
80:GD:7:DT:C6	80:GD:8:DT:H72	2.51	0.46
83:H3:22:DA:H5'	152:N9:31:DG:H1'	1.98	0.46
85:H6:14:DA:C2'	149:N6:31:DT:H72	2.46	0.46
86:H7:16:DT:C6	86:H7:17:DT:H72	2.51	0.46
88:H9:16:DG:H2''	88:H9:17:DC:O5'	2.13	0.46
90:HC:5:DC:H2'	90:HC:6:DT:H72	1.97	0.46
94:I3:10:DA:C2'	165:OD:43:DT:H72	2.46	0.46
95:I5:25:DT:C6	95:I5:26:DT:H72	2.51	0.46
99:I9:7:DC:H2'	99:I9:8:DT:H72	1.97	0.46
101:IC:15:DA:C2'	101:IC:16:DT:H72	2.46	0.46
102:ID:13:DC:H2'	102:ID:14:DT:H72	1.97	0.46
102:ID:30:DG:H2''	102:ID:31:DC:O5'	2.13	0.46
103:J1:11:DT:C6	103:J1:12:DT:H72	2.51	0.46
105:J3:19:DT:C6	105:J3:20:DT:H72	2.51	0.46
106:J5:9:DT:C6	106:J5:10:DT:H72	2.51	0.46
108:J7:55:DG:H2''	108:J7:56:DC:O5'	2.13	0.46
112:JC:15:DT:H72	151:N8:10:DA:C2'	2.46	0.46
113:JD:15:DT:C6	113:JD:16:DT:H72	2.51	0.46
114:K1:2:DA:C2'	114:K1:3:DT:H72	2.46	0.46
115:K2:22:DT:C6	115:K2:23:DT:H72	2.51	0.46
115:K2:31:DT:C6	115:K2:32:DT:H72	2.51	0.46
117:K5:15:DT:C6	117:K5:16:DT:H72	2.51	0.46
119:K7:3:DG:H2''	119:K7:4:DC:O5'	2.13	0.46
119:K7:6:DT:C6	119:K7:7:DT:H72	2.51	0.46
119:K7:19:DT:C6	119:K7:20:DT:H72	2.51	0.46
120:K8:1:DT:H72	146:N2:24:DC:H2'	1.97	0.46
125:L1:46:DT:C6	125:L1:47:DT:H72	2.51	0.46
129:L6:19:DT:C6	129:L6:20:DT:H72	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
129:L6:21:DC:H2'	129:L6:22:DT:H72	1.97	0.46
135:LD:18:DA:C2'	135:LD:19:DT:H72	2.46	0.46
136:M2:12:DT:C6	136:M2:13:DT:H72	2.51	0.46
136:M2:20:DA:C2'	136:M2:21:DT:H72	2.46	0.46
137:M3:5:DG:H1'	137:M3:6:DA:H5'	1.97	0.46
140:M7:22:DG:H1'	140:M7:23:DA:H5'	1.98	0.46
142:M9:13:DT:C6	142:M9:14:DT:H72	2.51	0.46
144:MC:16:DT:C6	144:MC:17:DT:H72	2.51	0.46
144:MC:17:DT:C6	144:MC:18:DT:H72	2.51	0.46
144:MC:19:DC:H2'	144:MC:20:DT:H72	1.97	0.46
145:MD:10:DT:H72	226:V9:11:DA:C2'	2.46	0.46
145:MD:28:DA:C2'	145:MD:29:DT:H72	2.46	0.46
145:MD:34:DT:C6	145:MD:35:DT:H72	2.51	0.46
145:MD:55:DG:H1'	145:MD:56:DA:H5'	1.98	0.46
147:N3:27:DT:C6	147:N3:28:DT:H72	2.51	0.46
154:NC:11:DA:H5'	174:PC:20:DG:H1'	1.98	0.46
154:NC:19:DT:C6	154:NC:20:DT:H72	2.51	0.46
157:O3:15:DA:C2'	157:O3:16:DT:H72	2.46	0.46
159:O6:2:DT:C6	159:O6:3:DT:H72	2.51	0.46
165:OD:55:DG:H2''	165:OD:56:DC:O5'	2.13	0.46
167:P3:6:DT:C6	167:P3:7:DT:H72	2.51	0.46
167:P3:14:DT:C6	167:P3:15:DT:H72	2.51	0.46
172:P9:26:DC:H2'	172:P9:27:DT:H72	1.97	0.46
174:PC:14:DG:H1'	174:PC:15:DA:H5'	1.98	0.46
174:PC:21:DT:C6	174:PC:22:DT:H72	2.51	0.46
183:QC:5:DC:H2'	183:QC:6:DT:H72	1.97	0.46
187:R5:31:DC:H2'	187:R5:32:DT:H72	1.97	0.46
188:R7:11:DT:C6	188:R7:12:DT:H72	2.51	0.46
190:R9:1:DT:C6	190:R9:2:DT:H72	2.51	0.46
190:R9:6:DT:C6	190:R9:7:DT:H72	2.51	0.46
192:RC:29:DT:C6	192:RC:30:DT:H72	2.51	0.46
194:S2:26:DT:C6	194:S2:27:DT:H72	2.51	0.46
195:S3:22:DG:H1'	195:S3:23:DA:H5'	1.98	0.46
198:S8:25:DT:C6	198:S8:26:DT:H72	2.51	0.46
206:T7:9:DG:H2''	206:T7:10:DC:O5'	2.13	0.46
206:T7:13:DC:H2'	206:T7:14:DT:H72	1.97	0.46
206:T7:46:DT:C6	206:T7:47:DT:H72	2.51	0.46
209:TA:2:DA:C2'	209:TA:3:DT:H72	2.46	0.46
210:TC:12:DC:H2'	210:TC:13:DT:H72	1.97	0.46
211:TD:1:DT:C6	211:TD:2:DT:H72	2.51	0.46
211:TD:6:DT:C6	211:TD:7:DT:H72	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
211:TD:36:DA:C2'	211:TD:37:DT:H72	2.46	0.46
216:U8:14:DG:H1'	216:U8:15:DA:H5'	1.98	0.46
222:V3:18:DA:C2'	222:V3:19:DT:H72	2.46	0.46
230:W3:24:DT:C6	230:W3:25:DT:H72	2.51	0.46
230:W3:25:DT:C6	230:W3:26:DT:H72	2.51	0.46
230:W3:29:DA:C2'	230:W3:30:DT:H72	2.46	0.46
237:X7:3:DT:C6	237:X7:4:DT:H72	2.51	0.46
237:X7:21:DA:C2'	237:X7:22:DT:H72	2.46	0.46
1:A1:56:DT:C6	1:A1:57:DT:H72	2.51	0.46
4:A4:27:DT:C6	4:A4:28:DT:H72	2.51	0.46
8:A8:12:DT:C6	8:A8:13:DT:H72	2.51	0.46
8:A8:26:DT:C6	8:A8:27:DT:H72	2.51	0.46
9:A9:3:DT:C6	9:A9:4:DT:H72	2.51	0.46
11:AB:107:DA:C2'	11:AB:108:DT:H72	2.46	0.46
11:AB:119:DT:C6	11:AB:120:DT:H72	2.51	0.46
11:AB:159:DT:C6	11:AB:160:DT:H72	2.51	0.46
11:AB:189:DT:C6	11:AB:190:DT:H72	2.51	0.46
11:AB:252:DT:C6	11:AB:253:DT:H72	2.51	0.46
11:AB:253:DT:C6	11:AB:254:DT:H72	2.51	0.46
11:AB:285:DG:H1'	11:AB:286:DA:H5'	1.97	0.46
11:AB:510:DA:C2'	11:AB:511:DT:H72	2.46	0.46
11:AB:530:DT:C6	11:AB:531:DT:H72	2.51	0.46
11:AB:546:DG:H1'	11:AB:547:DA:H5'	1.98	0.46
11:AB:603:DT:C6	11:AB:604:DT:H72	2.51	0.46
11:AB:609:DT:C6	11:AB:610:DT:H72	2.51	0.46
11:AB:624:DT:C6	11:AB:625:DT:H72	2.51	0.46
11:AB:688:DT:C6	11:AB:689:DT:H72	2.51	0.46
11:AB:766:DG:H2''	11:AB:767:DC:O5'	2.13	0.46
11:AB:844:DC:H2'	11:AB:845:DT:H72	1.97	0.46
11:AB:1129:DT:C6	11:AB:1130:DT:H72	2.51	0.46
11:AB:1135:DA:C2'	11:AB:1136:DT:H72	2.46	0.46
11:AB:1172:DT:C6	11:AB:1173:DT:H72	2.51	0.46
11:AB:1211:DT:C6	11:AB:1212:DT:H72	2.51	0.46
11:AB:1223:DT:C6	11:AB:1224:DT:H72	2.51	0.46
11:AB:1279:DT:C6	11:AB:1280:DT:H72	2.51	0.46
11:AB:1301:DA:C2'	11:AB:1302:DT:H72	2.46	0.46
11:AB:1371:DT:C6	11:AB:1372:DT:H72	2.51	0.46
11:AB:1437:DT:C6	11:AB:1438:DT:H72	2.51	0.46
11:AB:1451:DT:C6	11:AB:1452:DT:H72	2.51	0.46
11:AB:1454:DT:C6	11:AB:1455:DT:H72	2.51	0.46
11:AB:1512:DT:C6	11:AB:1513:DT:H72	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1566:DT:C6	11:AB:1567:DT:H72	2.51	0.46
11:AB:1594:DT:C6	11:AB:1595:DT:H72	2.51	0.46
11:AB:1596:DA:C2'	11:AB:1597:DT:H72	2.46	0.46
11:AB:1635:DT:C6	11:AB:1636:DT:H72	2.51	0.46
11:AB:1683:DA:C2'	11:AB:1684:DT:H72	2.46	0.46
11:AB:1774:DT:C6	11:AB:1775:DT:H72	2.51	0.46
11:AB:1873:DT:C6	11:AB:1874:DT:H72	2.51	0.46
11:AB:1911:DT:C6	11:AB:1912:DT:H72	2.51	0.46
11:AB:1936:DG:H1'	11:AB:1937:DA:H5'	1.98	0.46
11:AB:1968:DC:H2'	11:AB:1969:DT:H72	1.97	0.46
11:AB:1969:DT:C6	11:AB:1970:DT:H72	2.51	0.46
11:AB:2028:DG:H1'	11:AB:2029:DA:H5'	1.98	0.46
11:AB:2174:DT:C6	11:AB:2175:DT:H72	2.51	0.46
11:AB:2180:DA:C2'	11:AB:2181:DT:H72	2.46	0.46
11:AB:2185:DC:H2'	11:AB:2186:DT:H72	1.97	0.46
11:AB:2191:DA:C2'	11:AB:2192:DT:H72	2.46	0.46
11:AB:2272:DT:C6	11:AB:5577:DT:H72	2.51	0.46
11:AB:2275:DC:H2'	11:AB:2276:DT:H72	1.97	0.46
11:AB:2322:DT:C6	11:AB:2323:DT:H72	2.51	0.46
11:AB:2364:DT:C6	11:AB:5437:DT:H72	2.51	0.46
11:AB:2430:DT:C6	11:AB:2431:DT:H72	2.51	0.46
11:AB:2475:DT:C6	11:AB:2476:DT:H72	2.51	0.46
11:AB:2548:DT:C6	11:AB:2549:DT:H72	2.51	0.46
11:AB:2570:DT:C6	11:AB:2571:DT:H72	2.51	0.46
11:AB:2624:DT:C6	11:AB:2625:DT:H72	2.51	0.46
11:AB:2640:DA:C2'	11:AB:2641:DT:H72	2.46	0.46
11:AB:2659:DT:C6	11:AB:2660:DT:H72	2.51	0.46
11:AB:2671:DA:C2'	11:AB:2672:DT:H72	2.46	0.46
11:AB:2718:DG:H1'	11:AB:2719:DA:H5'	1.98	0.46
11:AB:2720:DT:C6	11:AB:2721:DT:H72	2.51	0.46
11:AB:2810:DT:C6	11:AB:2811:DT:H72	2.51	0.46
11:AB:2831:DT:C6	11:AB:2832:DT:H72	2.51	0.46
11:AB:2847:DT:C6	11:AB:2848:DT:H72	2.51	0.46
11:AB:2978:DT:C6	11:AB:2979:DT:H72	2.51	0.46
11:AB:3008:DT:C6	11:AB:3009:DT:H72	2.51	0.46
11:AB:3009:DT:C6	11:AB:3010:DT:H72	2.51	0.46
11:AB:3015:DT:C6	11:AB:3016:DT:H72	2.51	0.46
11:AB:3026:DA:C2'	11:AB:3027:DT:H72	2.46	0.46
11:AB:3062:DT:C6	11:AB:3063:DT:H72	2.51	0.46
11:AB:3124:DG:H1'	11:AB:3125:DA:H5'	1.98	0.46
11:AB:3157:DT:C6	11:AB:3158:DT:H72	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3161:DT:C6	11:AB:3162:DT:H72	2.51	0.46
11:AB:3182:DT:C6	11:AB:3183:DT:H72	2.51	0.46
11:AB:3192:DT:C6	11:AB:3193:DT:H72	2.51	0.46
11:AB:3193:DT:C6	11:AB:3194:DT:H72	2.51	0.46
11:AB:3223:DT:C6	11:AB:3224:DT:H72	2.51	0.46
11:AB:3270:DC:H2'	11:AB:3271:DT:H72	1.97	0.46
11:AB:3311:DT:C6	11:AB:3312:DT:H72	2.51	0.46
11:AB:3353:DT:C6	11:AB:3354:DT:H72	2.51	0.46
11:AB:3354:DT:C6	11:AB:3355:DT:H72	2.51	0.46
11:AB:3400:DA:C2'	11:AB:3401:DT:H72	2.46	0.46
11:AB:3452:DC:H2'	11:AB:3453:DT:H72	1.97	0.46
11:AB:3563:DT:C6	11:AB:3564:DT:H72	2.51	0.46
11:AB:3623:DT:C6	11:AB:3624:DT:H72	2.51	0.46
11:AB:3624:DT:C6	11:AB:3625:DT:H72	2.51	0.46
11:AB:3645:DC:H2'	11:AB:3646:DT:H72	1.97	0.46
11:AB:3674:DC:H2'	11:AB:3675:DT:H72	1.97	0.46
11:AB:3751:DA:C2'	11:AB:3752:DT:H72	2.46	0.46
11:AB:3761:DT:C6	11:AB:3762:DT:H72	2.51	0.46
11:AB:3848:DT:C6	11:AB:3849:DT:H72	2.51	0.46
11:AB:3926:DA:C2'	11:AB:3927:DT:H72	2.46	0.46
11:AB:3979:DT:C6	11:AB:3980:DT:H72	2.51	0.46
11:AB:3982:DA:C2'	11:AB:3983:DT:H72	2.46	0.46
11:AB:4021:DG:H1'	11:AB:4022:DA:H5'	1.98	0.46
11:AB:4150:DT:C6	11:AB:4151:DT:H72	2.51	0.46
11:AB:4202:DG:H2''	11:AB:4203:DC:O5'	2.13	0.46
11:AB:4269:DT:C6	11:AB:4270:DT:H72	2.51	0.46
11:AB:4404:DT:C6	11:AB:4405:DT:H72	2.51	0.46
11:AB:4407:DT:C6	11:AB:4408:DT:H72	2.51	0.46
11:AB:4414:DT:C6	11:AB:4415:DT:H72	2.51	0.46
11:AB:4426:DT:C6	11:AB:4427:DT:H72	2.51	0.46
11:AB:4617:DT:C6	11:AB:4618:DT:H72	2.51	0.46
11:AB:4629:DG:H2''	11:AB:4630:DC:O5'	2.13	0.46
11:AB:4683:DG:H1'	11:AB:4684:DA:H5'	1.98	0.46
11:AB:4784:DG:H2''	11:AB:4785:DC:O5'	2.13	0.46
11:AB:4905:DT:C6	11:AB:4906:DT:H72	2.51	0.46
11:AB:4923:DT:C6	11:AB:4924:DT:H72	2.51	0.46
11:AB:5005:DG:H1'	11:AB:5006:DA:H5'	1.98	0.46
11:AB:5066:DG:H1'	11:AB:5067:DA:H5'	1.98	0.46
11:AB:5076:DT:C6	11:AB:5077:DT:H72	2.51	0.46
11:AB:5155:DC:H2'	11:AB:5156:DT:H72	1.97	0.46
11:AB:5192:DG:H1'	11:AB:5193:DA:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5268:DT:C6	11:AB:5269:DT:H72	2.51	0.46
11:AB:5271:DT:C6	11:AB:5272:DT:H72	2.51	0.46
11:AB:5306:DT:C6	11:AB:5307:DT:H72	2.51	0.46
11:AB:5347:DT:C6	11:AB:5348:DT:H72	2.51	0.46
11:AB:5367:DT:C6	11:AB:5368:DT:H72	2.51	0.46
11:AB:5376:DC:H2'	11:AB:5377:DT:H72	1.97	0.46
11:AB:5394:DT:C6	11:AB:5395:DT:H72	2.51	0.46
11:AB:5457:DT:C6	11:AB:5458:DT:H72	2.51	0.46
11:AB:5500:DT:C6	11:AB:5501:DT:H72	2.51	0.46
11:AB:5570:DT:C6	11:AB:5571:DT:H72	2.51	0.46
11:AB:5597:DT:C6	11:AB:5598:DT:H72	2.51	0.46
11:AB:5661:DT:C6	11:AB:5662:DT:H72	2.51	0.46
11:AB:5673:DT:C6	11:AB:5674:DT:H72	2.51	0.46
11:AB:5773:DC:H2'	11:AB:5774:DT:H72	1.97	0.46
11:AB:5854:DT:C6	11:AB:5855:DT:H72	2.51	0.46
11:AB:5873:DA:C2'	11:AB:5874:DT:H72	2.46	0.46
11:AB:5905:DT:C6	11:AB:5906:DT:H72	2.51	0.46
11:AB:5907:DG:H2''	11:AB:5908:DC:O5'	2.13	0.46
11:AB:5951:DA:C2'	11:AB:5952:DT:H72	2.46	0.46
11:AB:5968:DA:C2'	11:AB:5969:DT:H72	2.46	0.46
11:AB:5977:DG:H1'	11:AB:5978:DA:H5'	1.98	0.46
11:AB:6010:DT:C6	11:AB:6011:DT:H72	2.51	0.46
11:AB:6042:DG:H2''	11:AB:6043:DC:O5'	2.13	0.46
11:AB:6078:DT:C6	11:AB:6079:DT:H72	2.51	0.46
11:AB:6127:DT:C6	11:AB:6128:DT:H72	2.51	0.46
11:AB:6171:DA:C2'	11:AB:6172:DT:H72	2.46	0.46
11:AB:6175:DT:C6	11:AB:6176:DT:H72	2.51	0.46
11:AB:6177:DG:H1'	11:AB:6178:DA:H5'	1.98	0.46
11:AB:6214:DA:C2'	11:AB:6215:DT:H72	2.46	0.46
11:AB:6220:DT:C6	11:AB:6221:DT:H72	2.51	0.46
11:AB:6259:DT:C6	11:AB:6260:DT:H72	2.51	0.46
11:AB:6293:DT:C6	11:AB:6294:DT:H72	2.51	0.46
11:AB:6302:DT:C6	11:AB:6303:DT:H72	2.51	0.46
11:AB:6367:DT:C6	11:AB:6368:DT:H72	2.51	0.46
11:AB:6374:DT:C6	11:AB:6375:DT:H72	2.51	0.46
11:AB:6398:DT:C6	11:AB:6399:DT:H72	2.51	0.46
11:AB:6419:DT:C6	11:AB:6420:DT:H72	2.51	0.46
11:AB:6425:DT:C6	11:AB:6426:DT:H72	2.51	0.46
11:AB:6426:DT:C6	11:AB:6427:DT:H72	2.51	0.46
11:AB:6450:DT:C6	11:AB:6451:DT:H72	2.51	0.46
11:AB:6452:DA:C2'	11:AB:6453:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6467:DT:C6	11:AB:6468:DT:H72	2.51	0.46
11:AB:6476:DC:H2'	11:AB:6477:DT:H72	1.97	0.46
11:AB:6495:DT:C6	11:AB:6496:DT:H72	2.51	0.46
11:AB:6541:DA:C2'	11:AB:6542:DT:H72	2.46	0.46
11:AB:6584:DT:C6	11:AB:6585:DT:H72	2.51	0.46
11:AB:6710:DT:C6	11:AB:6711:DT:H72	2.51	0.46
11:AB:6740:DT:C6	11:AB:6741:DT:H72	2.51	0.46
11:AB:6784:DA:C2'	11:AB:6785:DT:H72	2.46	0.46
11:AB:6790:DT:C6	11:AB:6791:DT:H72	2.51	0.46
11:AB:6891:DA:C2'	11:AB:6892:DT:H72	2.46	0.46
11:AB:6893:DG:H1'	11:AB:6894:DA:H5'	1.98	0.46
11:AB:6983:DT:C6	11:AB:6984:DT:H72	2.51	0.46
11:AB:7006:DA:C2'	11:AB:7007:DT:H72	2.46	0.46
11:AB:7013:DC:H2'	11:AB:7014:DT:H72	1.97	0.46
11:AB:7061:DT:C6	11:AB:7062:DT:H72	2.51	0.46
11:AB:7095:DT:C6	11:AB:7096:DT:H72	2.51	0.46
11:AB:7096:DT:C6	11:AB:7097:DT:H72	2.51	0.46
12:AC:12:DT:C6	12:AC:13:DT:H72	2.51	0.46
13:AD:35:DT:C6	13:AD:36:DT:H72	2.51	0.46
13:AD:36:DT:C6	13:AD:37:DT:H72	2.51	0.46
13:AD:40:DT:C6	13:AD:41:DT:H72	2.51	0.46
16:B3:8:DT:C6	16:B3:9:DT:H72	2.51	0.46
18:B5:18:DT:C6	18:B5:19:DT:H72	2.51	0.46
18:B5:26:DA:C2'	18:B5:27:DT:H72	2.46	0.46
19:B6:22:DC:H2'	19:B6:23:DT:H72	1.97	0.46
21:B8:4:DT:C6	21:B8:5:DT:H72	2.51	0.46
21:B8:5:DT:C6	21:B8:6:DT:H72	2.51	0.46
21:B8:16:DG:H1'	21:B8:17:DA:H5'	1.97	0.46
22:B9:2:DT:C6	22:B9:3:DT:H72	2.51	0.46
24:BC:28:DG:H1'	24:BC:29:DA:H5'	1.98	0.46
29:C5:1:DT:C6	29:C5:2:DT:H72	2.51	0.46
32:C8:12:DT:C6	32:C8:13:DT:H72	2.51	0.46
32:C8:50:DT:C6	32:C8:51:DT:H72	2.51	0.46
34:CA:5:DA:C2'	34:CA:6:DT:H72	2.46	0.46
36:CD:21:DA:C2'	36:CD:22:DT:H72	2.46	0.46
39:D3:22:DT:C6	39:D3:23:DT:H72	2.51	0.46
40:D5:21:DT:C6	40:D5:22:DT:H72	2.51	0.46
41:D6:38:DT:C6	41:D6:39:DT:H72	2.51	0.46
43:D8:44:DT:C6	43:D8:45:DT:H72	2.51	0.46
49:E2:10:DA:C2'	49:E2:11:DT:H72	2.46	0.46
51:E5:20:DA:C2'	51:E5:21:DT:H72	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:E6:1:DT:H72	63:F6:13:DA:C2'	2.46	0.46
53:E7:5:DT:C6	53:E7:6:DT:H72	2.51	0.46
53:E7:21:DT:C6	53:E7:22:DT:H72	2.51	0.46
54:E8:5:DG:H2''	54:E8:6:DC:O5'	2.13	0.46
54:E8:10:DA:C2'	54:E8:11:DT:H72	2.46	0.46
54:E8:13:DT:C6	54:E8:14:DT:H72	2.51	0.46
66:F9:17:DT:C6	66:F9:18:DT:H72	2.51	0.46
67:FA:3:DG:H1'	67:FA:4:DA:H5'	1.98	0.46
68:FC:3:DT:C6	68:FC:4:DT:H72	2.51	0.46
69:FD:22:DT:H72	225:V8:17:DA:C2'	2.46	0.46
81:H1:18:DT:C6	81:H1:19:DT:H72	2.51	0.46
83:H3:19:DG:H1'	83:H3:20:DA:H5'	1.97	0.46
85:H6:1:DA:C2'	85:H6:2:DT:H72	2.46	0.46
85:H6:5:DG:H1'	85:H6:6:DA:H5'	1.98	0.46
86:H7:17:DT:C6	86:H7:18:DT:H72	2.51	0.46
88:H9:4:DT:H72	190:R9:25:DA:C2'	2.46	0.46
93:I2:27:DT:C6	93:I2:28:DT:H72	2.51	0.46
94:I3:43:DG:H1'	94:I3:44:DA:H5'	1.98	0.46
95:I5:5:DT:C6	95:I5:6:DT:H72	2.51	0.46
96:I6:6:DT:C6	96:I6:7:DT:H72	2.51	0.46
101:IC:7:DA:C2'	101:IC:8:DT:H72	2.46	0.46
102:ID:6:DA:C2'	102:ID:7:DT:H72	2.46	0.46
103:J1:15:DA:C2'	103:J1:16:DT:H72	2.46	0.46
105:J3:7:DT:C6	105:J3:8:DT:H72	2.51	0.46
105:J3:17:DT:C6	105:J3:18:DT:H72	2.51	0.46
108:J7:13:DT:C6	108:J7:14:DT:H72	2.51	0.46
108:J7:18:DT:C6	108:J7:19:DT:H72	2.51	0.46
108:J7:24:DT:C6	108:J7:25:DT:H72	2.51	0.46
109:J8:50:DA:C2'	109:J8:51:DT:H72	2.46	0.46
114:K1:36:DA:C2'	114:K1:37:DT:H72	2.46	0.46
115:K2:12:DT:C6	115:K2:13:DT:H72	2.51	0.46
115:K2:13:DT:C6	115:K2:14:DT:H72	2.51	0.46
118:K6:7:DT:C6	118:K6:8:DT:H72	2.51	0.46
119:K7:42:DT:C6	119:K7:43:DT:H72	2.51	0.46
120:K8:19:DT:C6	120:K8:20:DT:H72	2.51	0.46
121:K9:16:DT:C6	121:K9:17:DT:H72	2.51	0.46
121:K9:17:DT:C6	121:K9:18:DT:H72	2.51	0.46
122:KA:8:DC:H2'	122:KA:9:DT:H72	1.97	0.46
122:KA:21:DA:C2'	145:MD:45:DT:H72	2.46	0.46
122:KA:29:DT:C6	122:KA:30:DT:H72	2.51	0.46
124:KD:21:DT:C6	124:KD:22:DT:H72	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
127:L3:8:DA:C2'	127:L3:9:DT:H72	2.46	0.46
127:L3:14:DT:C6	211:TD:29:DT:H72	2.51	0.46
128:L5:8:DT:C6	128:L5:9:DT:H72	2.51	0.46
129:L6:7:DT:C6	129:L6:8:DT:H72	2.51	0.46
130:L7:1:DG:H1'	130:L7:2:DA:H5'	1.97	0.46
130:L7:17:DT:C6	130:L7:18:DT:H72	2.51	0.46
133:LA:4:DT:C6	133:LA:5:DT:H72	2.51	0.46
135:LD:9:DT:C6	135:LD:10:DT:H72	2.51	0.46
135:LD:21:DA:C2'	135:LD:22:DT:H72	2.46	0.46
136:M2:1:DC:H2'	136:M2:2:DT:H72	1.97	0.46
136:M2:10:DT:C6	136:M2:11:DT:H72	2.51	0.46
136:M2:21:DT:C6	166:P2:17:DT:H72	2.51	0.46
138:M5:10:DT:C6	138:M5:11:DT:H72	2.51	0.46
142:M9:2:DA:C2'	142:M9:3:DT:H72	2.46	0.46
142:M9:22:DT:C6	142:M9:23:DT:H72	2.51	0.46
144:MC:1:DG:H1'	144:MC:2:DA:H5'	1.98	0.46
144:MC:20:DT:C6	144:MC:21:DT:H72	2.51	0.46
146:N2:11:DT:C6	146:N2:12:DT:H72	2.51	0.46
147:N3:15:DT:C6	147:N3:16:DT:H72	2.51	0.46
147:N3:32:DT:C6	147:N3:33:DT:H72	2.51	0.46
151:N8:13:DT:C6	151:N8:14:DT:H72	2.51	0.46
154:NC:14:DA:C2'	154:NC:15:DT:H72	2.46	0.46
154:NC:15:DT:C6	154:NC:16:DT:H72	2.51	0.46
154:NC:16:DT:C6	154:NC:17:DT:H72	2.51	0.46
156:O2:12:DC:H2'	156:O2:13:DT:H72	1.97	0.46
158:O5:39:DA:C2'	158:O5:40:DT:H72	2.46	0.46
159:O6:14:DT:C6	159:O6:15:DT:H72	2.51	0.46
160:O7:22:DT:C6	160:O7:23:DT:H72	2.51	0.46
160:O7:50:DT:C6	160:O7:51:DT:H72	2.51	0.46
161:O8:24:DT:C6	161:O8:25:DT:H72	2.51	0.46
161:O8:46:DT:C6	161:O8:47:DT:H72	2.51	0.46
164:OC:17:DC:H2'	164:OC:18:DT:H72	1.97	0.46
165:OD:30:DA:C2'	165:OD:31:DT:H72	2.46	0.46
167:P3:11:DA:C2'	167:P3:12:DT:H72	2.46	0.46
171:P8:7:DC:H2'	171:P8:8:DT:H72	1.97	0.46
171:P8:28:DA:C2'	171:P8:29:DT:H72	2.46	0.46
172:P9:5:DT:C6	172:P9:6:DT:H72	2.51	0.46
173:PA:15:DA:C2'	173:PA:16:DT:H72	2.46	0.46
178:Q5:32:DT:C6	178:Q5:33:DT:H72	2.51	0.46
181:Q9:2:DG:H1'	181:Q9:3:DA:H5'	1.98	0.46
183:QC:19:DG:H1'	183:QC:20:DA:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
183:QC:24:DT:C6	183:QC:25:DT:H72	2.51	0.46
184:QD:10:DT:C6	184:QD:11:DT:H72	2.51	0.46
184:QD:12:DT:C6	184:QD:13:DT:H72	2.51	0.46
184:QD:31:DT:C6	190:R9:1:DT:H72	2.51	0.46
188:R7:8:DG:H2'	188:R7:9:DC:O5'	2.13	0.46
188:R7:26:DT:C6	188:R7:27:DT:H72	2.51	0.46
189:R8:31:DG:H1'	189:R8:32:DA:H5'	1.98	0.46
190:R9:20:DT:C6	190:R9:21:DT:H72	2.51	0.46
192:RC:30:DT:C6	192:RC:31:DT:H72	2.51	0.46
197:S7:6:DG:H2'	197:S7:7:DC:O5'	2.13	0.46
197:S7:13:DC:H2'	197:S7:14:DT:H72	1.97	0.46
198:S8:34:DG:H1'	198:S8:35:DA:H5'	1.98	0.46
198:S8:39:DA:C2'	198:S8:40:DT:H72	2.46	0.46
200:SA:6:DG:H2'	200:SA:7:DC:O5'	2.13	0.46
200:SA:17:DT:C6	200:SA:18:DT:H72	2.51	0.46
201:SC:3:DT:C6	201:SC:4:DT:H72	2.51	0.46
203:T2:5:DC:H2'	203:T2:6:DT:H72	1.97	0.46
210:TC:6:DC:H2'	210:TC:7:DT:H72	1.97	0.46
214:U5:24:DT:C6	214:U5:25:DT:H72	2.51	0.46
215:U7:12:DC:H2'	215:U7:13:DT:H72	1.97	0.46
215:U7:15:DT:C6	215:U7:16:DT:H72	2.51	0.46
218:UA:3:DT:C6	218:UA:4:DT:H72	2.51	0.46
222:V3:7:DT:C6	222:V3:8:DT:H72	2.51	0.46
227:VA:9:DT:C6	227:VA:10:DT:H72	2.51	0.46
228:VC:1:DA:C2'	228:VC:2:DT:H72	2.46	0.46
228:VC:35:DG:H1'	228:VC:36:DA:H5'	1.98	0.46
230:W3:19:DG:H1'	230:W3:20:DA:H5'	1.98	0.46
231:W5:10:DT:C6	231:W5:11:DT:H72	2.51	0.46
231:W5:28:DT:C6	231:W5:29:DT:H72	2.51	0.46
237:X7:10:DT:C6	237:X7:11:DT:H72	2.51	0.46
238:X9:39:DA:C2'	238:X9:40:DT:H72	2.46	0.46
4:A4:21:DA:C2'	4:A4:22:DT:H72	2.46	0.45
4:A4:29:DT:C6	4:A4:30:DT:H72	2.51	0.45
7:A7:27:DT:C6	118:K6:14:DT:H72	2.51	0.45
9:A9:14:DT:C6	9:A9:15:DT:H72	2.51	0.45
10:AA:6:DA:C2'	10:AA:7:DT:H72	2.46	0.45
11:AB:36:DT:C6	11:AB:37:DT:H72	2.51	0.45
11:AB:65:DT:C6	11:AB:66:DT:H72	2.51	0.45
11:AB:120:DT:C6	11:AB:121:DT:H72	2.51	0.45
11:AB:162:DT:C6	11:AB:163:DT:H72	2.51	0.45
11:AB:193:DA:C2'	11:AB:194:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:225:DT:C6	11:AB:226:DT:H72	2.51	0.45
11:AB:282:DT:C6	11:AB:283:DT:H72	2.51	0.45
11:AB:337:DT:C6	11:AB:338:DT:H72	2.51	0.45
11:AB:379:DC:H2'	11:AB:380:DT:H72	1.97	0.45
11:AB:577:DT:C6	11:AB:578:DT:H72	2.51	0.45
11:AB:653:DT:C6	11:AB:654:DT:H72	2.51	0.45
11:AB:729:DA:C2'	11:AB:730:DT:H72	2.46	0.45
11:AB:770:DT:C6	11:AB:771:DT:H72	2.51	0.45
11:AB:792:DG:H1'	11:AB:793:DA:H5'	1.98	0.45
11:AB:795:DT:C6	11:AB:796:DT:H72	2.51	0.45
11:AB:965:DT:C6	11:AB:966:DT:H72	2.51	0.45
11:AB:1012:DC:H2'	11:AB:1013:DT:H72	1.97	0.45
11:AB:1166:DC:H2'	11:AB:1167:DT:H72	1.97	0.45
11:AB:1236:DT:C6	11:AB:1237:DT:H72	2.51	0.45
11:AB:1258:DT:C6	11:AB:1259:DT:H72	2.51	0.45
11:AB:1271:DT:C6	11:AB:1272:DT:H72	2.51	0.45
11:AB:1345:DT:C6	11:AB:1346:DT:H72	2.51	0.45
11:AB:1360:DA:C2'	11:AB:1361:DT:H72	2.46	0.45
11:AB:1385:DT:C6	11:AB:1386:DT:H72	2.51	0.45
11:AB:1456:DA:C2'	11:AB:1457:DT:H72	2.46	0.45
11:AB:1462:DT:C6	11:AB:1463:DT:H72	2.51	0.45
11:AB:1490:DT:C6	11:AB:1491:DT:H72	2.51	0.45
11:AB:1511:DC:H2'	11:AB:1512:DT:H72	1.97	0.45
11:AB:1549:DA:C2'	11:AB:1550:DT:H72	2.46	0.45
11:AB:1553:DT:C6	11:AB:1554:DT:H72	2.51	0.45
11:AB:1619:DT:C6	11:AB:1620:DT:H72	2.51	0.45
11:AB:1644:DT:C6	11:AB:1645:DT:H72	2.51	0.45
11:AB:1652:DA:C2'	11:AB:1653:DT:H72	2.46	0.45
11:AB:1679:DT:C6	11:AB:1680:DT:H72	2.51	0.45
11:AB:1715:DA:C2'	11:AB:1716:DT:H72	2.46	0.45
11:AB:1753:DT:C6	11:AB:1754:DT:H72	2.51	0.45
11:AB:1758:DA:C2'	11:AB:1759:DT:H72	2.46	0.45
11:AB:1875:DG:H1'	11:AB:1876:DA:H5'	1.98	0.45
11:AB:1877:DT:C6	11:AB:1878:DT:H72	2.51	0.45
11:AB:1990:DA:C2'	11:AB:1991:DT:H72	2.46	0.45
11:AB:2035:DG:H2''	11:AB:2036:DC:O5'	2.13	0.45
11:AB:2086:DT:C6	11:AB:2087:DT:H72	2.51	0.45
11:AB:2115:DT:C6	11:AB:2116:DT:H72	2.51	0.45
11:AB:2131:DT:C6	11:AB:2132:DT:H72	2.51	0.45
11:AB:2221:DT:C6	11:AB:2222:DT:H72	2.51	0.45
11:AB:2353:DC:H2'	11:AB:2354:DT:H72	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2377:DA:C2'	11:AB:2378:DT:H72	2.46	0.45
11:AB:2423:DT:C6	11:AB:2424:DT:H72	2.51	0.45
11:AB:2487:DA:C2'	11:AB:2488:DT:H72	2.46	0.45
11:AB:2493:DT:C6	11:AB:2494:DT:H72	2.51	0.45
11:AB:2507:DT:C6	11:AB:2508:DT:H72	2.51	0.45
11:AB:2641:DT:C6	11:AB:2642:DT:H72	2.51	0.45
11:AB:2742:DC:H2'	11:AB:2743:DT:H72	1.97	0.45
11:AB:2797:DT:C6	11:AB:2798:DT:H72	2.51	0.45
11:AB:2874:DT:C6	11:AB:2875:DT:H72	2.51	0.45
11:AB:2904:DT:C6	11:AB:2905:DT:H72	2.51	0.45
11:AB:2922:DA:C2'	11:AB:2923:DT:H72	2.46	0.45
11:AB:2934:DT:C6	11:AB:2935:DT:H72	2.51	0.45
11:AB:3016:DT:C6	11:AB:3017:DT:H72	2.51	0.45
11:AB:3030:DT:C6	11:AB:3031:DT:H72	2.51	0.45
11:AB:3103:DT:C6	11:AB:3104:DT:H72	2.51	0.45
11:AB:3156:DT:C6	11:AB:3157:DT:H72	2.51	0.45
11:AB:3221:DA:C2'	11:AB:3222:DT:H72	2.46	0.45
11:AB:3230:DG:H1'	11:AB:3231:DA:H5'	1.98	0.45
11:AB:3244:DT:C6	11:AB:3245:DT:H72	2.51	0.45
11:AB:3245:DT:C6	11:AB:3246:DT:H72	2.52	0.45
11:AB:3289:DG:H1'	11:AB:3290:DA:H5'	1.98	0.45
11:AB:3304:DT:C6	11:AB:3305:DT:H72	2.51	0.45
11:AB:3381:DG:H1'	11:AB:3382:DA:H5'	1.97	0.45
11:AB:3421:DG:H1'	11:AB:3422:DA:H5'	1.98	0.45
11:AB:3535:DT:C6	11:AB:3536:DT:H72	2.51	0.45
11:AB:3670:DA:C2'	11:AB:3671:DT:H72	2.46	0.45
11:AB:4101:DT:C6	11:AB:4102:DT:H72	2.51	0.45
11:AB:4149:DC:H2'	11:AB:4150:DT:H72	1.97	0.45
11:AB:4164:DC:H2'	11:AB:4165:DT:H72	1.97	0.45
11:AB:4336:DG:H1'	11:AB:4337:DA:H5'	1.98	0.45
11:AB:4358:DG:H1'	11:AB:4359:DA:H5'	1.98	0.45
11:AB:4366:DT:C6	11:AB:4367:DT:H72	2.51	0.45
11:AB:4395:DC:H2'	11:AB:4396:DT:H72	1.97	0.45
11:AB:4432:DA:C2'	11:AB:4433:DT:H72	2.46	0.45
11:AB:4489:DG:H2''	11:AB:4490:DC:O5'	2.13	0.45
11:AB:4544:DC:H2'	11:AB:4545:DT:H72	1.97	0.45
11:AB:4548:DC:H2'	11:AB:4549:DT:H72	1.97	0.45
11:AB:4714:DT:C6	11:AB:4715:DT:H72	2.51	0.45
11:AB:4751:DT:C6	11:AB:4752:DT:H72	2.51	0.45
11:AB:4796:DA:C2'	11:AB:4797:DT:H72	2.46	0.45
11:AB:4873:DT:C6	11:AB:4874:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4874:DT:C6	11:AB:4875:DT:H72	2.51	0.45
11:AB:4977:DA:C2'	11:AB:4978:DT:H72	2.46	0.45
11:AB:5003:DC:H2'	11:AB:5004:DT:H72	1.96	0.45
11:AB:5014:DA:C2'	11:AB:5015:DT:H72	2.46	0.45
11:AB:5073:DA:C2'	11:AB:5074:DT:H72	2.46	0.45
11:AB:5088:DA:C2'	11:AB:5089:DT:H72	2.46	0.45
11:AB:5117:DA:C2'	11:AB:5118:DT:H72	2.46	0.45
11:AB:5172:DA:C2'	11:AB:5173:DT:H72	2.46	0.45
11:AB:5184:DT:C6	11:AB:5185:DT:H72	2.51	0.45
11:AB:5223:DT:C6	11:AB:5224:DT:H72	2.51	0.45
11:AB:5229:DT:C6	11:AB:5230:DT:H72	2.51	0.45
11:AB:5285:DA:C2'	11:AB:5286:DT:H72	2.46	0.45
11:AB:5323:DG:H2''	11:AB:5324:DC:O5'	2.13	0.45
11:AB:5395:DT:C6	11:AB:5396:DT:H72	2.51	0.45
11:AB:5400:DA:C2'	11:AB:5401:DT:H72	2.46	0.45
11:AB:5428:DA:C2'	11:AB:5429:DT:H72	2.46	0.45
11:AB:5638:DA:C2'	11:AB:5639:DT:H72	2.46	0.45
11:AB:5671:DT:C6	11:AB:5672:DT:H72	2.51	0.45
11:AB:5751:DT:C6	11:AB:5752:DT:H72	2.51	0.45
11:AB:5875:DG:H1'	11:AB:5876:DA:H5'	1.98	0.45
11:AB:5897:DT:C6	11:AB:5898:DT:H72	2.51	0.45
11:AB:5912:DA:C2'	11:AB:5913:DT:H72	2.46	0.45
11:AB:5966:DT:C6	11:AB:5967:DT:H72	2.51	0.45
11:AB:6037:DA:C2'	11:AB:6038:DT:H72	2.46	0.45
11:AB:6046:DT:C6	11:AB:6047:DT:H72	2.51	0.45
11:AB:6143:DT:C6	11:AB:6144:DT:H72	2.51	0.45
11:AB:6203:DT:C6	11:AB:6204:DT:H72	2.51	0.45
11:AB:6260:DT:C6	11:AB:6261:DT:H72	2.51	0.45
11:AB:6281:DT:C6	11:AB:6282:DT:H72	2.51	0.45
11:AB:6482:DA:C2'	11:AB:6483:DT:H72	2.46	0.45
11:AB:6507:DA:C2'	11:AB:6508:DT:H72	2.46	0.45
11:AB:6545:DA:C2'	11:AB:6546:DT:H72	2.46	0.45
11:AB:6599:DT:C6	11:AB:6600:DT:H72	2.51	0.45
11:AB:6630:DG:H2''	11:AB:6631:DC:O5'	2.13	0.45
11:AB:6719:DT:C6	11:AB:6720:DT:H72	2.51	0.45
11:AB:6750:DG:H1'	11:AB:6751:DA:H5'	1.98	0.45
11:AB:6895:DT:C6	11:AB:6896:DT:H72	2.51	0.45
11:AB:6940:DG:H2''	11:AB:6941:DC:O5'	2.13	0.45
11:AB:6956:DT:C6	11:AB:6957:DT:H72	2.51	0.45
11:AB:7001:DT:C6	11:AB:7002:DT:H72	2.51	0.45
11:AB:7033:DT:C6	11:AB:7034:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:7075:DT:C6	11:AB:7076:DT:H72	2.51	0.45
13:AD:33:DG:H2''	13:AD:34:DC:O5'	2.13	0.45
14:B1:11:DT:C6	14:B1:12:DT:H72	2.51	0.45
16:B3:19:DT:C6	16:B3:20:DT:H72	2.51	0.45
16:B3:21:DA:C2'	16:B3:22:DT:H72	2.46	0.45
22:B9:18:DT:C6	22:B9:19:DT:H72	2.51	0.45
22:B9:45:DG:H1'	22:B9:46:DA:H5'	1.98	0.45
22:B9:50:DG:H1'	22:B9:51:DA:H5'	1.97	0.45
23:BA:21:DA:C2'	23:BA:22:DT:H72	2.46	0.45
24:BC:17:DA:C2'	24:BC:18:DT:H72	2.46	0.45
29:C5:7:DA:C2'	29:C5:8:DT:H72	2.46	0.45
31:C7:7:DT:C6	31:C7:8:DT:H72	2.51	0.45
32:C8:32:DG:H1'	32:C8:33:DA:H5'	1.98	0.45
32:C8:51:DT:C6	32:C8:52:DT:H72	2.51	0.45
36:CD:15:DA:C2'	36:CD:16:DT:H72	2.46	0.45
36:CD:17:DT:C6	36:CD:18:DT:H72	2.51	0.45
37:D1:7:DT:C6	138:M5:29:DT:H72	2.51	0.45
39:D3:16:DA:C2'	39:D3:17:DT:H72	2.46	0.45
39:D3:20:DG:H1'	39:D3:21:DA:H5'	1.98	0.45
43:D8:1:DT:H72	230:W3:49:DA:C2'	2.46	0.45
44:D9:19:DC:H2'	44:D9:20:DT:H72	1.97	0.45
52:E6:28:DG:H1'	52:E6:29:DA:H5'	1.97	0.45
54:E8:12:DT:C6	54:E8:13:DT:H72	2.51	0.45
58:ED:26:DT:C6	58:ED:27:DT:H72	2.51	0.45
59:F1:5:DA:C2'	59:F1:6:DT:H72	2.46	0.45
62:F5:12:DA:C2'	62:F5:13:DT:H72	2.46	0.45
64:F7:5:DA:C2'	64:F7:6:DT:H72	2.46	0.45
67:FA:10:DT:C6	67:FA:11:DT:H72	2.51	0.45
74:G6:24:DA:C2'	74:G6:25:DT:H72	2.46	0.45
78:GA:10:DT:C6	78:GA:11:DT:H72	2.51	0.45
81:H1:17:DA:C2'	81:H1:18:DT:H72	2.46	0.45
82:H2:49:DA:C2'	82:H2:50:DT:H72	2.46	0.45
83:H3:3:DT:C6	83:H3:4:DT:H72	2.51	0.45
83:H3:17:DT:C6	83:H3:18:DT:H72	2.51	0.45
84:H5:4:DT:C6	84:H5:5:DT:H72	2.51	0.45
84:H5:15:DT:C6	84:H5:16:DT:H72	2.51	0.45
86:H7:7:DA:C2'	86:H7:8:DT:H72	2.46	0.45
86:H7:9:DT:C6	86:H7:10:DT:H72	2.51	0.45
87:H8:6:DT:C6	87:H8:7:DT:H72	2.51	0.45
89:HA:14:DA:C2'	89:HA:15:DT:H72	2.46	0.45
89:HA:16:DT:C6	89:HA:17:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
91:HD:9:DT:C6	91:HD:10:DT:H72	2.51	0.45
91:HD:22:DG:H1'	91:HD:23:DA:H5'	1.98	0.45
94:I3:23:DA:C2'	94:I3:24:DT:H72	2.46	0.45
94:I3:29:DG:H1'	94:I3:30:DA:H5'	1.98	0.45
94:I3:41:DT:C6	94:I3:42:DT:H72	2.51	0.45
96:I6:3:DG:H2''	96:I6:4:DC:O5'	2.13	0.45
98:I8:10:DA:C2'	98:I8:11:DT:H72	2.46	0.45
98:I8:35:DG:H1'	98:I8:36:DA:H5'	1.98	0.45
101:IC:13:DG:H1'	101:IC:14:DA:H5'	1.97	0.45
102:ID:12:DC:H2'	175:PD:14:DT:H72	1.97	0.45
107:J6:25:DA:C2'	107:J6:26:DT:H72	2.46	0.45
109:J8:36:DT:H72	232:W7:27:DT:C6	2.51	0.45
109:J8:53:DG:H2''	109:J8:54:DC:O5'	2.13	0.45
114:K1:31:DG:H1'	114:K1:32:DA:H5'	1.98	0.45
114:K1:42:DC:H2'	114:K1:43:DT:H72	1.97	0.45
115:K2:6:DT:C6	115:K2:7:DT:H72	2.51	0.45
117:K5:5:DA:C2'	117:K5:6:DT:H72	2.46	0.45
117:K5:14:DT:C6	117:K5:15:DT:H72	2.51	0.45
117:K5:33:DA:C2'	117:K5:34:DT:H72	2.46	0.45
119:K7:36:DA:C2'	119:K7:37:DT:H72	2.46	0.45
125:L1:10:DG:H1'	125:L1:11:DA:H5'	1.98	0.45
126:L2:14:DA:C2'	126:L2:15:DT:H72	2.46	0.45
127:L3:6:DT:C6	127:L3:7:DT:H72	2.51	0.45
129:L6:8:DT:C6	129:L6:9:DT:H72	2.51	0.45
130:L7:3:DT:C6	130:L7:4:DT:H72	2.51	0.45
130:L7:45:DT:C6	130:L7:46:DT:H72	2.51	0.45
130:L7:53:DA:C2'	130:L7:54:DT:H72	2.46	0.45
137:M3:15:DA:C2'	137:M3:16:DT:H72	2.46	0.45
141:M8:13:DA:C2'	141:M8:14:DT:H72	2.46	0.45
142:M9:1:DG:H1'	142:M9:2:DA:H5'	1.98	0.45
145:MD:20:DA:C2'	145:MD:21:DT:H72	2.46	0.45
145:MD:30:DT:C6	173:PA:22:DT:H72	2.51	0.45
147:N3:2:DG:H1'	147:N3:3:DA:H5'	1.98	0.45
148:N5:33:DT:C6	148:N5:34:DT:H72	2.51	0.45
154:NC:11:DA:C2'	154:NC:12:DT:H72	2.46	0.45
156:O2:45:DG:H2''	156:O2:46:DC:O5'	2.13	0.45
157:O3:3:DA:C2'	157:O3:4:DT:H72	2.46	0.45
160:O7:24:DT:C6	160:O7:25:DT:H72	2.51	0.45
167:P3:13:DT:C6	167:P3:14:DT:H72	2.51	0.45
169:P6:16:DG:H1'	169:P6:17:DA:H5'	1.98	0.45
170:P7:21:DA:C2'	170:P7:22:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
171:P8:18:DT:H72	185:R2:14:DT:C6	2.51	0.45
172:P9:10:DT:C6	172:P9:11:DT:H72	2.51	0.45
178:Q5:31:DT:C6	178:Q5:32:DT:H72	2.51	0.45
183:QC:26:DT:C6	183:QC:27:DT:H72	2.51	0.45
185:R2:11:DG:H2''	185:R2:12:DC:O5'	2.13	0.45
187:R5:15:DT:H72	223:V5:34:DT:C6	2.51	0.45
189:R8:1:DA:H5'	210:TC:30:DG:H1'	1.98	0.45
192:RC:31:DT:C6	192:RC:32:DT:H72	2.51	0.45
194:S2:5:DG:H1'	194:S2:6:DA:H5'	1.97	0.45
195:S3:12:DT:C6	195:S3:13:DT:H72	2.51	0.45
197:S7:18:DA:C2'	197:S7:19:DT:H72	2.46	0.45
204:T3:24:DG:H2''	204:T3:25:DC:O5'	2.13	0.45
204:T3:32:DT:C6	204:T3:33:DT:H72	2.51	0.45
206:T7:23:DG:H2''	206:T7:24:DC:O5'	2.13	0.45
208:T9:9:DC:H2'	208:T9:10:DT:H72	1.97	0.45
208:T9:19:DT:C6	208:T9:20:DT:H72	2.51	0.45
211:TD:4:DA:C2'	211:TD:5:DT:H72	2.46	0.45
211:TD:5:DT:C6	211:TD:6:DT:H72	2.51	0.45
214:U5:1:DA:C2'	214:U5:2:DT:H72	2.46	0.45
214:U5:39:DT:C6	214:U5:40:DT:H72	2.51	0.45
217:U9:26:DT:C6	217:U9:27:DT:H72	2.51	0.45
219:UC:9:DT:C6	219:UC:10:DT:H72	2.51	0.45
219:UC:13:DG:H1'	219:UC:14:DA:H5'	1.97	0.45
221:V2:22:DT:C6	221:V2:23:DT:H72	2.51	0.45
222:V3:5:DA:C2'	222:V3:6:DT:H72	2.46	0.45
230:W3:1:DA:C2'	230:W3:2:DT:H72	2.46	0.45
230:W3:11:DT:C6	230:W3:12:DT:H72	2.51	0.45
234:W9:12:DG:H1'	234:W9:13:DA:H5'	1.98	0.45
2:A2:23:DG:H1'	2:A2:24:DA:H5'	1.98	0.45
7:A7:21:DA:C2'	7:A7:22:DT:H72	2.46	0.45
9:A9:15:DT:C6	9:A9:16:DT:H72	2.51	0.45
11:AB:20:DG:H2''	11:AB:21:DC:O5'	2.13	0.45
11:AB:66:DT:C6	11:AB:67:DT:H72	2.51	0.45
11:AB:73:DA:C2'	11:AB:74:DT:H72	2.46	0.45
11:AB:94:DA:C2'	11:AB:95:DT:H72	2.46	0.45
11:AB:108:DT:C6	11:AB:109:DT:H72	2.51	0.45
11:AB:129:DT:C6	11:AB:130:DT:H72	2.51	0.45
11:AB:133:DT:C6	11:AB:134:DT:H72	2.51	0.45
11:AB:152:DG:H1'	11:AB:153:DA:H5'	1.98	0.45
11:AB:164:DA:C2'	11:AB:165:DT:H72	2.46	0.45
11:AB:165:DT:C6	11:AB:166:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:176:DT:C6	11:AB:177:DT:H72	2.51	0.45
11:AB:303:DG:H1'	11:AB:304:DA:H5'	1.98	0.45
11:AB:574:DC:H2'	11:AB:575:DT:H72	1.97	0.45
11:AB:667:DT:C6	11:AB:668:DT:H72	2.51	0.45
11:AB:695:DT:C6	11:AB:696:DT:H72	2.51	0.45
11:AB:735:DG:H1'	11:AB:736:DA:H5'	1.98	0.45
11:AB:783:DT:C6	11:AB:784:DT:H72	2.51	0.45
11:AB:802:DT:C6	11:AB:803:DT:H72	2.51	0.45
11:AB:1083:DG:H1'	11:AB:1084:DA:H5'	1.98	0.45
11:AB:1141:DA:C2'	11:AB:1142:DT:H72	2.46	0.45
11:AB:1155:DG:H1'	11:AB:1156:DA:H5'	1.98	0.45
11:AB:1278:DT:C6	11:AB:1279:DT:H72	2.51	0.45
11:AB:1344:DT:C6	11:AB:1345:DT:H72	2.51	0.45
11:AB:1421:DT:C6	11:AB:1422:DT:H72	2.51	0.45
11:AB:1457:DT:C6	11:AB:1458:DT:H72	2.51	0.45
11:AB:1463:DT:C6	11:AB:1464:DT:H72	2.51	0.45
11:AB:1471:DT:C6	11:AB:1472:DT:H72	2.51	0.45
11:AB:1539:DT:C6	11:AB:1540:DT:H72	2.51	0.45
11:AB:1716:DT:C6	11:AB:1717:DT:H72	2.51	0.45
11:AB:1762:DA:C2'	11:AB:1763:DT:H72	2.46	0.45
11:AB:1860:DA:C2'	11:AB:1861:DT:H72	2.46	0.45
11:AB:1878:DT:C6	11:AB:1879:DT:H72	2.51	0.45
11:AB:1933:DT:C6	11:AB:1934:DT:H72	2.51	0.45
11:AB:1975:DT:C6	11:AB:1976:DT:H72	2.51	0.45
11:AB:2006:DT:H72	11:AB:5913:DT:C6	2.51	0.45
11:AB:2034:DT:H72	11:AB:5857:DT:C6	2.51	0.45
11:AB:2125:DA:C2'	11:AB:2126:DT:H72	2.46	0.45
11:AB:2197:DT:C6	11:AB:2198:DT:H72	2.51	0.45
11:AB:2225:DT:C6	11:AB:2226:DT:H72	2.51	0.45
11:AB:2396:DT:C6	11:AB:2397:DT:H72	2.51	0.45
11:AB:2404:DA:C2'	11:AB:2405:DT:H72	2.46	0.45
11:AB:2429:DT:C6	11:AB:2430:DT:H72	2.51	0.45
11:AB:2460:DT:C6	11:AB:2461:DT:H72	2.51	0.45
11:AB:2473:DA:C2'	11:AB:2474:DT:H72	2.46	0.45
11:AB:2497:DC:H2'	11:AB:2498:DT:H72	1.97	0.45
11:AB:2531:DT:C6	11:AB:2532:DT:H72	2.51	0.45
11:AB:2572:DA:C2'	11:AB:2573:DT:H72	2.46	0.45
11:AB:2574:DA:C2'	11:AB:2575:DT:H72	2.46	0.45
11:AB:2721:DT:C6	11:AB:2722:DT:H72	2.51	0.45
11:AB:2749:DA:C2'	11:AB:2750:DT:H72	2.46	0.45
11:AB:2757:DT:C6	11:AB:2758:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2767:DT:C6	11:AB:2768:DT:H72	2.51	0.45
11:AB:2791:DA:C2'	11:AB:2792:DT:H72	2.46	0.45
11:AB:2891:DT:C6	11:AB:2892:DT:H72	2.51	0.45
11:AB:2898:DT:C6	11:AB:2899:DT:H72	2.51	0.45
11:AB:2967:DT:C6	11:AB:2968:DT:H72	2.51	0.45
11:AB:2990:DA:C2'	11:AB:2991:DT:H72	2.46	0.45
11:AB:3119:DA:C2'	11:AB:3120:DT:H72	2.46	0.45
11:AB:3126:DA:C2'	11:AB:3127:DT:H72	2.46	0.45
11:AB:3131:DA:C2'	11:AB:3132:DT:H72	2.46	0.45
11:AB:3173:DA:C2'	11:AB:3174:DT:H72	2.46	0.45
11:AB:3222:DT:C6	11:AB:3223:DT:H72	2.51	0.45
11:AB:3367:DT:C6	11:AB:3368:DT:H72	2.51	0.45
11:AB:3397:DT:C6	11:AB:3398:DT:H72	2.51	0.45
11:AB:3403:DT:C6	11:AB:3404:DT:H72	2.51	0.45
11:AB:3556:DC:H2'	11:AB:3557:DT:H72	1.97	0.45
11:AB:3558:DA:C2'	11:AB:3559:DT:H72	2.46	0.45
11:AB:3579:DT:H72	11:AB:4754:DT:C6	2.51	0.45
11:AB:3617:DT:C6	11:AB:3618:DT:H72	2.51	0.45
11:AB:3659:DA:C2'	11:AB:3660:DT:H72	2.46	0.45
11:AB:3995:DT:C6	11:AB:3996:DT:H72	2.51	0.45
11:AB:3999:DC:H2'	11:AB:4000:DT:H72	1.97	0.45
11:AB:4360:DC:H2'	11:AB:4361:DT:H72	1.97	0.45
11:AB:4384:DC:H2'	11:AB:4385:DT:H72	1.97	0.45
11:AB:4431:DG:H1'	11:AB:4432:DA:H5'	1.98	0.45
11:AB:4459:DT:C6	11:AB:4460:DT:H72	2.51	0.45
11:AB:4558:DG:H1'	11:AB:4559:DA:H5'	1.97	0.45
11:AB:4572:DG:H2''	11:AB:4573:DC:O5'	2.13	0.45
11:AB:4698:DT:C6	11:AB:4699:DT:H72	2.51	0.45
11:AB:5072:DG:H1'	11:AB:5073:DA:H5'	1.98	0.45
11:AB:5181:DT:C6	11:AB:5182:DT:H72	2.51	0.45
11:AB:5260:DG:H2''	11:AB:5261:DC:O5'	2.13	0.45
11:AB:5348:DT:C6	11:AB:5349:DT:H72	2.51	0.45
11:AB:5363:DT:C6	11:AB:5364:DT:H72	2.51	0.45
11:AB:5365:DG:H2''	11:AB:5366:DC:O5'	2.13	0.45
11:AB:5425:DG:H1'	11:AB:5426:DA:H5'	1.98	0.45
11:AB:5459:DC:H2'	11:AB:5460:DT:H72	1.97	0.45
11:AB:5465:DT:C6	11:AB:5466:DT:H72	2.51	0.45
11:AB:5497:DG:H2''	11:AB:5498:DC:O5'	2.13	0.45
11:AB:5540:DA:C2'	11:AB:5541:DT:H72	2.46	0.45
11:AB:5544:DA:C2'	11:AB:5545:DT:H72	2.46	0.45
11:AB:5669:DA:C2'	11:AB:5670:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5696:DC:H2'	11:AB:5697:DT:H72	1.97	0.45
11:AB:5730:DT:C6	11:AB:5731:DT:H72	2.51	0.45
11:AB:5746:DT:C6	11:AB:5747:DT:H72	2.51	0.45
11:AB:5752:DT:C6	11:AB:5753:DT:H72	2.51	0.45
11:AB:5767:DT:C6	11:AB:5768:DT:H72	2.51	0.45
11:AB:5778:DT:C6	11:AB:5779:DT:H72	2.51	0.45
11:AB:5949:DG:H1'	11:AB:5950:DA:H5'	1.97	0.45
11:AB:6080:DA:C2'	11:AB:6081:DT:H72	2.46	0.45
11:AB:6170:DG:H1'	11:AB:6171:DA:H5'	1.98	0.45
11:AB:6191:DT:C6	11:AB:6192:DT:H72	2.51	0.45
11:AB:6204:DT:C6	11:AB:6205:DT:H72	2.51	0.45
11:AB:6282:DT:C6	11:AB:6283:DT:H72	2.51	0.45
11:AB:6318:DG:H1'	11:AB:6319:DA:H5'	1.98	0.45
11:AB:6365:DA:C2'	11:AB:6366:DT:H72	2.46	0.45
11:AB:6366:DT:C6	11:AB:6367:DT:H72	2.51	0.45
11:AB:6488:DT:C6	11:AB:6489:DT:H72	2.51	0.45
11:AB:6578:DT:C6	11:AB:6579:DT:H72	2.51	0.45
11:AB:6699:DT:C6	11:AB:6700:DT:H72	2.51	0.45
11:AB:6811:DA:C2'	11:AB:6812:DT:H72	2.46	0.45
11:AB:6853:DA:C2'	11:AB:6854:DT:H72	2.46	0.45
11:AB:7046:DT:C6	11:AB:7047:DT:H72	2.51	0.45
11:AB:7060:DT:C6	11:AB:7061:DT:H72	2.51	0.45
11:AB:7086:DA:C2'	11:AB:7087:DT:H72	2.46	0.45
11:AB:7110:DG:H1'	11:AB:7111:DA:H5'	1.98	0.45
11:AB:7132:DT:C6	11:AB:7133:DT:H72	2.51	0.45
11:AB:7221:DT:C6	11:AB:7222:DT:H72	2.51	0.45
14:B1:9:DG:H1'	14:B1:10:DA:H5'	1.98	0.45
14:B1:36:DA:H5'	94:I3:59:DG:H1'	1.98	0.45
15:B2:16:DG:H1'	15:B2:17:DA:H5'	1.98	0.45
22:B9:24:DG:H1'	22:B9:25:DA:H5'	1.97	0.45
23:BA:27:DC:H2'	23:BA:28:DT:H72	1.97	0.45
24:BC:6:DG:H1'	24:BC:7:DA:H5'	1.98	0.45
24:BC:31:DC:H2'	24:BC:32:DT:H72	1.97	0.45
29:C5:10:DG:H1'	29:C5:11:DA:H5'	1.98	0.45
29:C5:23:DC:H2'	29:C5:24:DT:H72	1.97	0.45
30:C6:33:DG:H1'	30:C6:34:DA:H5'	1.98	0.45
30:C6:37:DG:H1'	30:C6:38:DA:H5'	1.98	0.45
31:C7:28:DT:C6	31:C7:29:DT:H72	2.51	0.45
35:CC:24:DA:C2'	35:CC:25:DT:H72	2.46	0.45
39:D3:1:DT:H72	204:T3:45:DT:C6	2.51	0.45
43:D8:40:DG:H1'	43:D8:41:DA:H5'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DD:34:DG:H1'	47:DD:35:DA:H5'	1.98	0.45
48:E1:5:DG:H1'	48:E1:6:DA:H5'	1.98	0.45
54:E8:11:DT:C6	54:E8:12:DT:H72	2.51	0.45
54:E8:31:DT:H72	90:HC:16:DC:H2'	1.97	0.45
55:E9:9:DT:C6	55:E9:10:DT:H72	2.51	0.45
59:F1:18:DG:H1'	59:F1:19:DA:H5'	1.98	0.45
67:FA:27:DG:H1'	67:FA:28:DA:H5'	1.98	0.45
76:G8:7:DG:H2''	76:G8:8:DC:O5'	2.13	0.45
82:H2:34:DC:H2'	150:N7:1:DT:H72	1.97	0.45
85:H6:29:DG:H1'	85:H6:30:DA:H5'	1.98	0.45
94:I3:17:DG:H1'	229:VD:11:DA:H5'	1.98	0.45
98:I8:37:DG:H1'	123:KC:17:DA:H5'	1.98	0.45
106:J5:10:DT:C6	106:J5:11:DT:H72	2.51	0.45
108:J7:17:DT:C6	108:J7:18:DT:H72	2.51	0.45
109:J8:35:DC:H2'	237:X7:1:DT:H72	1.97	0.45
112:JC:18:DA:C2'	112:JC:19:DT:H72	2.46	0.45
113:JD:1:DG:H1'	113:JD:2:DA:H5'	1.98	0.45
114:K1:44:DG:H1'	114:K1:45:DA:H5'	1.98	0.45
116:K3:6:DG:H1'	116:K3:7:DA:H5'	1.98	0.45
120:K8:5:DT:H72	141:M8:30:DT:C6	2.51	0.45
122:KA:36:DT:C6	122:KA:37:DT:H72	2.51	0.45
126:L2:21:DT:C6	126:L2:22:DT:H72	2.51	0.45
131:L8:13:DT:C6	131:L8:14:DT:H72	2.51	0.45
133:LA:20:DT:C6	133:LA:21:DT:H72	2.51	0.45
136:M2:18:DG:H2''	136:M2:19:DC:O5'	2.13	0.45
138:M5:9:DT:C6	138:M5:10:DT:H72	2.51	0.45
138:M5:38:DT:C6	138:M5:39:DT:H72	2.51	0.45
141:M8:11:DT:C6	141:M8:12:DT:H72	2.51	0.45
142:M9:12:DT:C6	142:M9:13:DT:H72	2.51	0.45
143:MA:45:DG:H2''	143:MA:46:DC:O5'	2.13	0.45
149:N6:5:DT:C6	149:N6:6:DT:H72	2.51	0.45
149:N6:15:DA:C2'	149:N6:16:DT:H72	2.46	0.45
154:NC:12:DT:C6	154:NC:13:DT:H72	2.51	0.45
161:O8:9:DG:H1'	161:O8:10:DA:H5'	1.97	0.45
161:O8:47:DT:C6	161:O8:48:DT:H72	2.51	0.45
163:OA:14:DC:H2'	163:OA:15:DT:H72	1.97	0.45
165:OD:46:DA:C2'	165:OD:47:DT:H72	2.46	0.45
166:P2:17:DT:C6	166:P2:18:DT:H72	2.51	0.45
167:P3:12:DT:C6	167:P3:13:DT:H72	2.51	0.45
169:P6:10:DG:H2''	169:P6:11:DC:O5'	2.13	0.45
173:PA:22:DT:C6	173:PA:23:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
181:Q9:33:DT:C6	181:Q9:34:DT:H72	2.51	0.45
182:QA:2:DG:H1'	182:QA:3:DA:H5'	1.98	0.45
184:QD:18:DA:C2'	184:QD:19:DT:H72	2.46	0.45
186:R3:20:DC:H2'	186:R3:21:DT:H72	1.97	0.45
194:S2:15:DG:H2''	194:S2:16:DC:O5'	2.13	0.45
194:S2:27:DT:C6	194:S2:28:DT:H72	2.51	0.45
202:SD:21:DA:C2'	202:SD:22:DT:H72	2.46	0.45
203:T2:6:DT:C6	203:T2:7:DT:H72	2.51	0.45
209:TA:6:DG:H1'	209:TA:7:DA:H5'	1.98	0.45
218:UA:2:DT:C6	218:UA:3:DT:H72	2.51	0.45
222:V3:6:DT:C6	222:V3:7:DT:H72	2.51	0.45
222:V3:22:DA:C2'	222:V3:23:DT:H72	2.46	0.45
224:V7:13:DA:C2'	224:V7:14:DT:H72	2.46	0.45
224:V7:21:DG:H1'	224:V7:22:DA:H5'	1.97	0.45
225:V8:7:DA:C2'	225:V8:8:DT:H72	2.46	0.45
226:V9:2:DA:C2'	226:V9:3:DT:H72	2.46	0.45
227:VA:8:DC:H2'	227:VA:9:DT:H72	1.97	0.45
231:W5:9:DT:C6	231:W5:10:DT:H72	2.51	0.45
231:W5:30:DT:C6	231:W5:31:DT:H72	2.51	0.45
232:W7:6:DG:H1'	232:W7:7:DA:H5'	1.98	0.45
235:WD:20:DT:C6	235:WD:21:DT:H72	2.51	0.45
1:A1:5:DT:C6	115:K2:31:DT:H72	2.51	0.45
1:A1:18:DT:C6	1:A1:19:DT:H72	2.51	0.45
2:A2:15:DT:C6	2:A2:16:DT:H72	2.51	0.45
2:A2:17:DT:C6	206:T7:46:DT:H72	2.51	0.45
3:A3:20:DG:H1'	3:A3:21:DA:H5'	1.97	0.45
4:A4:26:DT:C6	4:A4:27:DT:H72	2.51	0.45
7:A7:39:DT:C6	7:A7:40:DT:H72	2.51	0.45
9:A9:2:DT:C6	9:A9:3:DT:H72	2.51	0.45
9:A9:10:DG:H1'	9:A9:11:DA:H5'	1.97	0.45
11:AB:30:DT:C6	11:AB:31:DT:H72	2.51	0.45
11:AB:74:DT:C6	11:AB:75:DT:H72	2.51	0.45
11:AB:101:DG:H1'	11:AB:102:DA:H5'	1.97	0.45
11:AB:134:DT:C6	11:AB:135:DT:H72	2.51	0.45
11:AB:135:DT:C6	11:AB:136:DT:H72	2.51	0.45
11:AB:144:DT:C6	11:AB:145:DT:H72	2.51	0.45
11:AB:191:DC:H2'	11:AB:192:DT:H72	1.97	0.45
11:AB:273:DG:H1'	11:AB:274:DA:H5'	1.97	0.45
11:AB:281:DT:C6	11:AB:282:DT:H72	2.51	0.45
11:AB:331:DT:C6	11:AB:332:DT:H72	2.51	0.45
11:AB:348:DG:H1'	11:AB:349:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:391:DC:H2'	11:AB:392:DT:H72	1.97	0.45
11:AB:506:DT:C6	11:AB:507:DT:H72	2.51	0.45
11:AB:594:DC:H2'	11:AB:595:DT:H72	1.97	0.45
11:AB:739:DC:H2'	11:AB:740:DT:H72	1.97	0.45
11:AB:784:DT:C6	11:AB:785:DT:H72	2.52	0.45
11:AB:794:DT:C6	11:AB:795:DT:H72	2.51	0.45
11:AB:852:DG:H2''	11:AB:853:DC:O5'	2.13	0.45
11:AB:883:DG:H2''	11:AB:884:DC:O5'	2.13	0.45
11:AB:1224:DT:C6	11:AB:1225:DT:H72	2.51	0.45
11:AB:1356:DT:C6	11:AB:1357:DT:H72	2.51	0.45
11:AB:1372:DT:C6	11:AB:1373:DT:H72	2.51	0.45
11:AB:1439:DT:C6	11:AB:1440:DT:H72	2.51	0.45
11:AB:1446:DT:C6	11:AB:1447:DT:H72	2.51	0.45
11:AB:1472:DT:C6	11:AB:1473:DT:H72	2.52	0.45
11:AB:1522:DC:H2'	11:AB:1523:DT:H72	1.97	0.45
11:AB:1632:DT:C6	11:AB:1633:DT:H72	2.51	0.45
11:AB:1649:DT:C6	11:AB:1650:DT:H72	2.51	0.45
11:AB:1653:DT:C6	11:AB:1654:DT:H72	2.51	0.45
11:AB:1704:DC:H2'	11:AB:1705:DT:H72	1.97	0.45
11:AB:1741:DT:C6	11:AB:1742:DT:H72	2.51	0.45
11:AB:1751:DG:H1'	11:AB:1752:DA:H5'	1.98	0.45
11:AB:1780:DT:C6	11:AB:1781:DT:H72	2.51	0.45
11:AB:1793:DA:C2'	11:AB:1794:DT:H72	2.46	0.45
11:AB:1830:DA:C2'	11:AB:1831:DT:H72	2.46	0.45
11:AB:1991:DT:C6	11:AB:1992:DT:H72	2.51	0.45
11:AB:2047:DT:C6	11:AB:2048:DT:H72	2.51	0.45
11:AB:2145:DG:H1'	11:AB:2146:DA:H5'	1.97	0.45
11:AB:2226:DT:C6	11:AB:2227:DT:H72	2.51	0.45
11:AB:2232:DT:C6	11:AB:2233:DT:H72	2.51	0.45
11:AB:2365:DT:H72	11:AB:5436:DT:C6	2.51	0.45
11:AB:2394:DT:C6	11:AB:2395:DT:H72	2.51	0.45
11:AB:2626:DT:C6	11:AB:2627:DT:H72	2.51	0.45
11:AB:2628:DG:H1'	11:AB:2629:DA:H5'	1.98	0.45
11:AB:2648:DT:C6	11:AB:2649:DT:H72	2.51	0.45
11:AB:2823:DC:H2'	11:AB:2824:DT:H72	1.97	0.45
11:AB:2863:DG:H1'	11:AB:2864:DA:H5'	1.98	0.45
11:AB:2889:DT:C6	11:AB:2890:DT:H72	2.51	0.45
11:AB:2933:DT:C6	11:AB:2934:DT:H72	2.51	0.45
11:AB:2986:DG:H1'	11:AB:2987:DA:H5'	1.98	0.45
11:AB:2999:DA:C2'	11:AB:3000:DT:H72	2.46	0.45
11:AB:3001:DT:C6	11:AB:3002:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3045:DT:C6	11:AB:3046:DT:H72	2.51	0.45
11:AB:3094:DA:C2'	11:AB:3095:DT:H72	2.46	0.45
11:AB:3115:DG:H1'	11:AB:3116:DA:H5'	1.98	0.45
11:AB:3146:DC:H2'	11:AB:3147:DT:H72	1.97	0.45
11:AB:3233:DT:C6	11:AB:3234:DT:H72	2.51	0.45
11:AB:3335:DA:C2'	11:AB:3336:DT:H72	2.46	0.45
11:AB:3364:DG:H1'	11:AB:3365:DA:H5'	1.97	0.45
11:AB:3431:DA:C2'	11:AB:3432:DT:H72	2.46	0.45
11:AB:3479:DT:C6	11:AB:3480:DT:H72	2.51	0.45
11:AB:3533:DT:C6	11:AB:3534:DT:H72	2.51	0.45
11:AB:3536:DT:C6	11:AB:3537:DT:H72	2.51	0.45
11:AB:3588:DT:C6	11:AB:3589:DT:H72	2.51	0.45
11:AB:3820:DT:C6	11:AB:3821:DT:H72	2.51	0.45
11:AB:3828:DT:C6	11:AB:3829:DT:H72	2.51	0.45
11:AB:3869:DT:C6	11:AB:3870:DT:H72	2.51	0.45
11:AB:3939:DT:C6	11:AB:3940:DT:H72	2.51	0.45
11:AB:4010:DA:C2'	11:AB:4011:DT:H72	2.46	0.45
11:AB:4011:DT:C6	11:AB:4348:DT:H72	2.51	0.45
11:AB:4317:DT:C6	11:AB:4318:DT:H72	2.51	0.45
11:AB:4345:DT:C6	11:AB:4346:DT:H72	2.51	0.45
11:AB:4411:DG:H1'	11:AB:4412:DA:H5'	1.98	0.45
11:AB:4594:DC:H2'	11:AB:4595:DT:H72	1.97	0.45
11:AB:4605:DT:C6	11:AB:4606:DT:H72	2.51	0.45
11:AB:4620:DA:C2'	11:AB:4621:DT:H72	2.46	0.45
11:AB:4639:DT:C6	11:AB:4640:DT:H72	2.51	0.45
11:AB:4797:DT:C6	11:AB:4798:DT:H72	2.51	0.45
11:AB:4848:DA:C2'	11:AB:4849:DT:H72	2.46	0.45
11:AB:4917:DA:C2'	11:AB:4918:DT:H72	2.46	0.45
11:AB:4984:DT:C6	11:AB:4985:DT:H72	2.51	0.45
11:AB:4994:DT:C6	11:AB:4995:DT:H72	2.51	0.45
11:AB:5180:DT:C6	11:AB:5181:DT:H72	2.51	0.45
11:AB:5262:DG:H1'	11:AB:5263:DA:H5'	1.98	0.45
11:AB:5280:DT:C6	11:AB:5281:DT:H72	2.51	0.45
11:AB:5286:DT:C6	11:AB:5287:DT:H72	2.51	0.45
11:AB:5307:DT:C6	11:AB:5308:DT:H72	2.51	0.45
11:AB:5354:DT:C6	11:AB:5355:DT:H72	2.51	0.45
11:AB:5474:DG:H1'	11:AB:5475:DA:H5'	1.98	0.45
11:AB:5499:DC:H2'	11:AB:5500:DT:H72	1.97	0.45
11:AB:5529:DC:H2'	11:AB:5530:DT:H72	1.97	0.45
11:AB:5537:DT:C6	11:AB:5538:DT:H72	2.51	0.45
11:AB:5542:DT:C6	11:AB:5543:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5558:DT:C6	11:AB:5559:DT:H72	2.51	0.45
11:AB:5583:DG:H1'	11:AB:5584:DA:H5'	1.98	0.45
11:AB:5596:DC:H2'	11:AB:5597:DT:H72	1.97	0.45
11:AB:5765:DC:H2'	11:AB:5766:DT:H72	1.97	0.45
11:AB:5770:DT:C6	11:AB:5771:DT:H72	2.51	0.45
11:AB:5904:DT:C6	11:AB:5905:DT:H72	2.51	0.45
11:AB:5930:DC:H2'	11:AB:5931:DT:H72	1.97	0.45
11:AB:5956:DG:H1'	11:AB:5957:DA:H5'	1.98	0.45
11:AB:6038:DT:C6	11:AB:6039:DT:H72	2.51	0.45
11:AB:6148:DT:C6	11:AB:6149:DT:H72	2.51	0.45
11:AB:6225:DT:C6	11:AB:6226:DT:H72	2.51	0.45
11:AB:6343:DT:C6	11:AB:6344:DT:H72	2.51	0.45
11:AB:6346:DG:H1'	11:AB:6347:DA:H5'	1.98	0.45
11:AB:6461:DT:C6	11:AB:6462:DT:H72	2.51	0.45
11:AB:6549:DT:C6	11:AB:6550:DT:H72	2.51	0.45
11:AB:6628:DG:H1'	11:AB:6629:DA:H5'	1.98	0.45
11:AB:6663:DA:C2'	11:AB:6664:DT:H72	2.46	0.45
11:AB:6698:DA:C2'	11:AB:6699:DT:H72	2.46	0.45
11:AB:6771:DT:C6	11:AB:6772:DT:H72	2.51	0.45
11:AB:6810:DG:H1'	11:AB:6811:DA:H5'	1.98	0.45
11:AB:6897:DG:H1'	11:AB:6898:DA:H5'	1.97	0.45
11:AB:6966:DG:H1'	11:AB:6967:DA:H5'	1.98	0.45
11:AB:7062:DT:C6	11:AB:7063:DT:H72	2.51	0.45
11:AB:7229:DC:H2'	11:AB:7230:DT:H72	1.97	0.45
12:AC:14:DT:C6	12:AC:15:DT:H72	2.51	0.45
12:AC:22:DG:H2''	65:F8:1:DC:O5'	2.13	0.45
13:AD:26:DG:H1'	13:AD:27:DA:H5'	1.98	0.45
14:B1:13:DA:C2'	14:B1:14:DT:H72	2.46	0.45
17:B4:6:DT:C6	17:B4:7:DT:H72	2.51	0.45
18:B5:34:DA:C2'	18:B5:35:DT:H72	2.46	0.45
21:B8:6:DT:C6	21:B8:7:DT:H72	2.51	0.45
21:B8:27:DT:C6	149:N6:1:DT:H72	2.51	0.45
24:BC:23:DG:H1'	24:BC:24:DA:H5'	1.98	0.45
27:C2:13:DT:C6	149:N6:38:DT:H72	2.51	0.45
30:C6:20:DT:C6	30:C6:21:DT:H72	2.51	0.45
31:C7:6:DC:H2'	31:C7:7:DT:H72	1.97	0.45
31:C7:26:DT:C6	31:C7:27:DT:H72	2.51	0.45
32:C8:13:DT:C6	32:C8:14:DT:H72	2.51	0.45
33:C9:26:DT:C6	33:C9:27:DT:H72	2.51	0.45
45:DA:5:DA:C2'	45:DA:6:DT:H72	2.46	0.45
48:E1:7:DG:H1'	231:W5:21:DA:H5'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:E2:21:DT:C6	49:E2:22:DT:H72	2.51	0.45
49:E2:23:DT:C6	96:I6:1:DT:H72	2.51	0.45
52:E6:14:DA:C2'	71:G2:14:DT:H72	2.46	0.45
56:EA:16:DT:C6	56:EA:17:DT:H72	2.51	0.45
60:F2:9:DT:C6	60:F2:10:DT:H72	2.51	0.45
61:F3:4:DC:H2'	61:F3:5:DT:H72	1.97	0.45
61:F3:10:DG:H1'	61:F3:11:DA:H5'	1.97	0.45
62:F5:29:DT:C6	62:F5:30:DT:H72	2.51	0.45
62:F5:45:DT:C6	62:F5:46:DT:H72	2.51	0.45
64:F7:3:DA:C2'	64:F7:4:DT:H72	2.46	0.45
64:F7:12:DC:H2'	64:F7:13:DT:H72	1.97	0.45
67:FA:24:DT:C6	67:FA:25:DT:H72	2.51	0.45
69:FD:21:DA:C2'	225:V8:18:DT:H72	2.46	0.45
74:G6:31:DA:H5'	213:U3:14:DG:H1'	1.98	0.45
76:G8:16:DT:C6	76:G8:17:DT:H72	2.51	0.45
78:GA:13:DG:H1'	78:GA:14:DA:H5'	1.98	0.45
79:GC:19:DT:C6	79:GC:20:DT:H72	2.51	0.45
81:H1:14:DG:H1'	81:H1:15:DA:H5'	1.98	0.45
82:H2:16:DT:C6	82:H2:17:DT:H72	2.51	0.45
85:H6:19:DT:C6	85:H6:20:DT:H72	2.51	0.45
92:I1:24:DC:H2'	92:I1:25:DT:H72	1.97	0.45
93:I2:22:DG:H1'	93:I2:23:DA:H5'	1.98	0.45
93:I2:32:DA:C2'	93:I2:33:DT:H72	2.46	0.45
94:I3:33:DG:H1'	94:I3:34:DA:H5'	1.98	0.45
95:I5:30:DG:H1'	95:I5:31:DA:H5'	1.98	0.45
100:IA:14:DT:C6	100:IA:15:DT:H72	2.51	0.45
101:IC:8:DT:C6	101:IC:9:DT:H72	2.51	0.45
102:ID:24:DG:H1'	102:ID:25:DA:H5'	1.98	0.45
105:J3:25:DT:C6	105:J3:26:DT:H72	2.51	0.45
108:J7:8:DG:H1'	108:J7:9:DA:H5'	1.98	0.45
108:J7:31:DG:H1'	108:J7:32:DA:H5'	1.98	0.45
109:J8:22:DT:C6	109:J8:23:DT:H72	2.51	0.45
111:JA:13:DG:H1'	111:JA:14:DA:H5'	1.98	0.45
112:JC:19:DT:C6	112:JC:20:DT:H72	2.51	0.45
113:JD:5:DG:H1'	113:JD:6:DA:H5'	1.98	0.45
114:K1:35:DT:C6	119:K7:26:DT:H72	2.51	0.45
121:K9:18:DT:C6	121:K9:19:DT:H72	2.51	0.45
124:KD:20:DA:C2'	124:KD:21:DT:H72	2.46	0.45
125:L1:1:DT:H72	137:M3:35:DA:C2'	2.46	0.45
125:L1:22:DT:C6	125:L1:23:DT:H72	2.51	0.45
126:L2:24:DG:H1'	126:L2:25:DA:H5'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
126:L2:51:DG:H1'	126:L2:52:DA:H5'	1.98	0.45
126:L2:60:DG:H1'	188:R7:1:DA:H5'	1.98	0.45
127:L3:9:DT:C6	127:L3:10:DT:H72	2.51	0.45
130:L7:38:DG:H1'	130:L7:39:DA:H5'	1.98	0.45
136:M2:8:DG:H1'	136:M2:9:DA:H5'	1.98	0.45
138:M5:8:DA:C2'	138:M5:9:DT:H72	2.46	0.45
139:M6:4:DG:H2''	139:M6:5:DC:O5'	2.13	0.45
145:MD:17:DT:H72	172:P9:16:DT:C6	2.51	0.45
149:N6:26:DG:H1'	149:N6:27:DA:H5'	1.97	0.45
150:N7:20:DG:H1'	150:N7:21:DA:H5'	1.98	0.45
151:N8:2:DG:H1'	151:N8:3:DA:H5'	1.98	0.45
151:N8:7:DC:H2'	151:N8:8:DT:H72	1.97	0.45
151:N8:18:DT:H72	164:OC:16:DC:H2'	1.97	0.45
152:N9:10:DT:C6	208:T9:14:DT:H72	2.51	0.45
152:N9:39:DA:C2'	152:N9:40:DT:H72	2.46	0.45
152:N9:47:DG:H1'	152:N9:48:DA:H5'	1.98	0.45
155:ND:12:DT:C6	184:QD:8:DT:H72	2.51	0.45
168:P5:11:DT:C6	168:P5:12:DT:H72	2.51	0.45
171:P8:8:DT:C6	171:P8:9:DT:H72	2.51	0.45
171:P8:18:DT:C6	171:P8:19:DT:H72	2.51	0.45
171:P8:23:DT:C6	171:P8:24:DT:H72	2.51	0.45
171:P8:25:DA:C2'	171:P8:26:DT:H72	2.46	0.45
178:Q5:36:DT:H72	214:U5:14:DT:C6	2.51	0.45
181:Q9:11:DT:C6	184:QD:22:DT:H72	2.51	0.45
181:Q9:19:DA:H5'	234:W9:14:DG:H1'	1.98	0.45
181:Q9:28:DT:C6	181:Q9:29:DT:H72	2.51	0.45
186:R3:16:DT:C6	186:R3:17:DT:H72	2.51	0.45
189:R8:20:DA:C2'	189:R8:21:DT:H72	2.46	0.45
195:S3:19:DT:C6	195:S3:20:DT:H72	2.51	0.45
202:SD:16:DG:H1'	202:SD:17:DA:H5'	1.98	0.45
203:T2:7:DT:C6	203:T2:8:DT:H72	2.51	0.45
204:T3:33:DT:C6	204:T3:34:DT:H72	2.51	0.45
206:T7:36:DG:H1'	206:T7:37:DA:H5'	1.98	0.45
206:T7:40:DG:H1'	206:T7:41:DA:H5'	1.98	0.45
211:TD:39:DG:H2''	211:TD:40:DC:O5'	2.13	0.45
212:U2:21:DT:C6	212:U2:22:DT:H72	2.51	0.45
214:U5:13:DT:C6	214:U5:14:DT:H72	2.51	0.45
216:U8:21:DC:H2'	216:U8:22:DT:H72	1.97	0.45
224:V7:17:DA:C2'	224:V7:18:DT:H72	2.46	0.45
226:V9:28:DG:H1'	226:V9:29:DA:H5'	1.98	0.45
228:VC:24:DG:H1'	228:VC:25:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
230:W3:7:DC:H2'	230:W3:8:DT:H72	1.97	0.45
230:W3:9:DG:H1'	230:W3:10:DA:H5'	1.98	0.45
230:W3:27:DA:C2'	230:W3:28:DT:H72	2.46	0.45
231:W5:11:DT:C6	231:W5:12:DT:H72	2.51	0.45
232:W7:13:DT:C6	232:W7:14:DT:H72	2.51	0.45
234:W9:16:DG:H1'	234:W9:17:DA:H5'	1.98	0.45
236:X5:9:DG:H1'	236:X5:10:DA:H5'	1.98	0.45
238:X9:40:DT:C6	238:X9:41:DT:H72	2.51	0.45
238:X9:46:DT:C6	238:X9:47:DT:H72	2.51	0.45
2:A2:16:DT:C6	2:A2:17:DT:H72	2.51	0.45
5:A5:12:DT:C6	5:A5:13:DT:H72	2.51	0.45
5:A5:13:DT:C6	5:A5:14:DT:H72	2.51	0.45
8:A8:5:DG:H1'	8:A8:6:DA:H5'	1.98	0.45
11:AB:82:DG:H1'	11:AB:83:DA:H5'	1.97	0.45
11:AB:140:DG:H1'	11:AB:141:DA:H5'	1.97	0.45
11:AB:187:DC:H2'	11:AB:188:DT:H72	1.97	0.45
11:AB:433:DC:H2'	11:AB:434:DT:H72	1.97	0.45
11:AB:484:DA:C2'	11:AB:485:DT:H72	2.46	0.45
11:AB:544:DC:H2'	11:AB:545:DT:H72	1.97	0.45
11:AB:616:DA:C2'	11:AB:617:DT:H72	2.46	0.45
11:AB:679:DC:H2'	11:AB:680:DT:H72	1.97	0.45
11:AB:906:DG:H1'	11:AB:907:DA:H5'	1.98	0.45
11:AB:1029:DG:H1'	11:AB:1030:DA:H5'	1.98	0.45
11:AB:1234:DA:C2'	11:AB:1235:DT:H72	2.46	0.45
11:AB:1302:DT:C6	11:AB:1303:DT:H72	2.51	0.45
11:AB:1312:DA:C2'	11:AB:1313:DT:H72	2.46	0.45
11:AB:1350:DT:C6	11:AB:1351:DT:H72	2.51	0.45
11:AB:1354:DT:C6	11:AB:1355:DT:H72	2.51	0.45
11:AB:1355:DT:C6	11:AB:1356:DT:H72	2.51	0.45
11:AB:1459:DG:H2''	11:AB:1460:DC:O5'	2.13	0.45
11:AB:1544:DA:C2'	11:AB:1545:DT:H72	2.46	0.45
11:AB:1587:DT:C6	11:AB:1588:DT:H72	2.51	0.45
11:AB:1608:DT:C6	11:AB:1609:DT:H72	2.51	0.45
11:AB:1665:DA:C2'	11:AB:1666:DT:H72	2.46	0.45
11:AB:1671:DT:C6	11:AB:1672:DT:H72	2.51	0.45
11:AB:1744:DT:C6	11:AB:1745:DT:H72	2.51	0.45
11:AB:1748:DT:C6	11:AB:1749:DT:H72	2.51	0.45
11:AB:1849:DC:H2'	11:AB:1850:DT:H72	1.97	0.45
11:AB:1989:DG:H1'	11:AB:1990:DA:H5'	1.98	0.45
11:AB:2016:DT:C6	11:AB:2017:DT:H72	2.51	0.45
11:AB:2029:DA:C2'	11:AB:2030:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2133:DT:C6	11:AB:2134:DT:H72	2.51	0.45
11:AB:2134:DT:C6	11:AB:2135:DT:H72	2.51	0.45
11:AB:2140:DT:C6	11:AB:2141:DT:H72	2.51	0.45
11:AB:2155:DT:C6	11:AB:2156:DT:H72	2.51	0.45
11:AB:2244:DT:C6	11:AB:2245:DT:H72	2.51	0.45
11:AB:2246:DA:C2'	11:AB:2247:DT:H72	2.46	0.45
11:AB:2257:DT:C6	11:AB:2258:DT:H72	2.51	0.45
11:AB:2285:DA:C2'	11:AB:2286:DT:H72	2.46	0.45
11:AB:2293:DT:C6	11:AB:2294:DT:H72	2.51	0.45
11:AB:2315:DT:C6	11:AB:2316:DT:H72	2.51	0.45
11:AB:2474:DT:C6	11:AB:2475:DT:H72	2.51	0.45
11:AB:2528:DT:H72	11:AB:5283:DC:H2'	1.97	0.45
11:AB:2542:DT:C6	11:AB:2543:DT:H72	2.51	0.45
11:AB:2611:DC:H2'	11:AB:2612:DT:H72	1.97	0.45
11:AB:2747:DA:C2'	11:AB:2748:DT:H72	2.46	0.45
11:AB:2834:DT:C6	11:AB:2835:DT:H72	2.51	0.45
11:AB:2843:DC:H2'	11:AB:2844:DT:H72	1.97	0.45
11:AB:2870:DA:C2'	11:AB:2871:DT:H72	2.46	0.45
11:AB:2936:DC:H2'	11:AB:2937:DT:H72	1.97	0.45
11:AB:2941:DG:H1'	11:AB:2942:DA:H5'	1.97	0.45
11:AB:2964:DA:C2'	11:AB:2965:DT:H72	2.46	0.45
11:AB:3071:DA:C2'	11:AB:3072:DT:H72	2.46	0.45
11:AB:3092:DA:C2'	11:AB:3093:DT:H72	2.46	0.45
11:AB:3095:DT:C6	11:AB:3096:DT:H72	2.51	0.45
11:AB:3260:DC:H2'	11:AB:3261:DT:H72	1.97	0.45
11:AB:3275:DA:C2'	11:AB:3276:DT:H72	2.46	0.45
11:AB:3341:DT:C6	11:AB:3342:DT:H72	2.51	0.45
11:AB:3366:DT:C6	11:AB:3367:DT:H72	2.51	0.45
11:AB:3374:DC:H2'	11:AB:3375:DT:H72	1.97	0.45
11:AB:3622:DC:H2'	11:AB:3623:DT:H72	1.97	0.45
11:AB:3666:DT:C6	11:AB:3667:DT:H72	2.51	0.45
11:AB:3668:DT:C6	11:AB:3669:DT:H72	2.51	0.45
11:AB:3753:DG:H1'	11:AB:3754:DA:H5'	1.97	0.45
11:AB:3758:DT:C6	11:AB:3759:DT:H72	2.51	0.45
11:AB:3791:DT:C6	11:AB:3792:DT:H72	2.51	0.45
11:AB:3822:DG:H1'	11:AB:3823:DA:H5'	1.97	0.45
11:AB:3881:DT:C6	11:AB:3882:DT:H72	2.51	0.45
11:AB:3978:DT:C6	11:AB:3979:DT:H72	2.51	0.45
11:AB:4009:DG:H1'	11:AB:4010:DA:H5'	1.98	0.45
11:AB:4030:DT:C6	11:AB:4031:DT:H72	2.51	0.45
11:AB:4151:DT:C6	11:AB:4320:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4152:DT:H72	11:AB:4319:DT:C6	2.51	0.45
11:AB:4169:DT:C6	11:AB:4170:DT:H72	2.51	0.45
11:AB:4170:DT:C6	11:AB:4171:DT:H72	2.51	0.45
11:AB:4191:DT:C6	11:AB:4192:DT:H72	2.51	0.45
11:AB:4271:DG:H1'	11:AB:4272:DA:H5'	1.97	0.45
11:AB:4297:DG:H2''	11:AB:4298:DC:O5'	2.13	0.45
11:AB:4316:DT:C6	11:AB:4317:DT:H72	2.51	0.45
11:AB:4464:DC:H2'	11:AB:4465:DT:H72	1.97	0.45
11:AB:4778:DG:H1'	11:AB:4779:DA:H5'	1.97	0.45
11:AB:4795:DG:H1'	11:AB:4796:DA:H5'	1.98	0.45
11:AB:4914:DT:C6	11:AB:4915:DT:H72	2.51	0.45
11:AB:5012:DG:H1'	11:AB:5013:DA:H5'	1.98	0.45
11:AB:5070:DG:H2''	11:AB:5071:DC:O5'	2.13	0.45
11:AB:5129:DG:H1'	11:AB:5130:DA:H5'	1.97	0.45
11:AB:5152:DG:H1'	11:AB:5153:DA:H5'	1.98	0.45
11:AB:5269:DT:C6	11:AB:5270:DT:H72	2.51	0.45
11:AB:5304:DG:H1'	11:AB:5305:DA:H5'	1.98	0.45
11:AB:5421:DG:H1'	11:AB:5422:DA:H5'	1.98	0.45
11:AB:5423:DT:C6	11:AB:5424:DT:H72	2.51	0.45
11:AB:5536:DA:C2'	11:AB:5537:DT:H72	2.46	0.45
11:AB:5607:DT:C6	11:AB:5608:DT:H72	2.51	0.45
11:AB:5611:DG:H1'	11:AB:5612:DA:H5'	1.98	0.45
11:AB:5617:DT:C6	11:AB:5618:DT:H72	2.51	0.45
11:AB:5641:DG:H2''	11:AB:5642:DC:O5'	2.13	0.45
11:AB:5645:DT:C6	11:AB:5646:DT:H72	2.51	0.45
11:AB:5670:DT:C6	11:AB:5671:DT:H72	2.51	0.45
11:AB:5672:DT:C6	11:AB:5673:DT:H72	2.51	0.45
11:AB:5761:DG:H1'	11:AB:5762:DA:H5'	1.97	0.45
11:AB:5879:DA:C2'	11:AB:5880:DT:H72	2.46	0.45
11:AB:5903:DA:C2'	11:AB:5904:DT:H72	2.46	0.45
11:AB:5909:DG:H1'	11:AB:5910:DA:H5'	1.98	0.45
11:AB:6006:DA:C2'	11:AB:6007:DT:H72	2.46	0.45
11:AB:6035:DA:C2'	11:AB:6036:DT:H72	2.46	0.45
11:AB:6115:DG:H1'	11:AB:6116:DA:H5'	1.98	0.45
11:AB:6151:DG:H1'	11:AB:6152:DA:H5'	1.97	0.45
11:AB:6183:DT:C6	11:AB:6184:DT:H72	2.51	0.45
11:AB:6253:DC:H2'	11:AB:6254:DT:H72	1.97	0.45
11:AB:6267:DA:C2'	11:AB:6268:DT:H72	2.46	0.45
11:AB:6292:DT:C6	11:AB:6293:DT:H72	2.51	0.45
11:AB:6368:DT:C6	11:AB:6369:DT:H72	2.51	0.45
11:AB:6392:DC:H2'	11:AB:6393:DT:H72	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6413:DG:H2'	11:AB:6414:DC:O5'	2.13	0.45
11:AB:6445:DG:H1'	11:AB:6446:DA:H5'	1.98	0.45
11:AB:6483:DT:C6	11:AB:6484:DT:H72	2.51	0.45
11:AB:6782:DA:C2'	11:AB:6783:DT:H72	2.46	0.45
11:AB:6989:DT:C6	11:AB:6990:DT:H72	2.51	0.45
11:AB:6990:DT:C6	11:AB:6991:DT:H72	2.51	0.45
11:AB:7054:DC:H2'	11:AB:7055:DT:H72	1.97	0.45
11:AB:7067:DT:C6	11:AB:7068:DT:H72	2.51	0.45
11:AB:7115:DT:C6	11:AB:7116:DT:H72	2.51	0.45
11:AB:7166:DC:H2'	11:AB:7167:DT:H72	1.97	0.45
11:AB:7225:DC:H2'	11:AB:7226:DT:H72	1.97	0.45
17:B4:16:DG:H1'	17:B4:17:DA:H5'	1.98	0.45
19:B6:14:DG:H1'	149:N6:45:DA:H5'	1.98	0.45
20:B7:5:DT:C6	20:B7:6:DT:H72	2.51	0.45
22:B9:1:DA:C2'	22:B9:2:DT:H72	2.46	0.45
25:BD:10:DG:H1'	25:BD:11:DA:H5'	1.98	0.45
26:C1:23:DT:C6	26:C1:24:DT:H72	2.51	0.45
27:C2:21:DC:H2'	27:C2:22:DT:H72	1.97	0.45
31:C7:4:DT:C6	31:C7:5:DT:H72	2.51	0.45
34:CA:11:DG:H1'	34:CA:12:DA:H5'	1.97	0.45
38:D2:1:DG:H1'	38:D2:2:DA:H5'	1.97	0.45
39:D3:18:DA:C2'	103:J1:22:DT:H72	2.46	0.45
41:D6:37:DT:C6	41:D6:38:DT:H72	2.51	0.45
41:D6:39:DT:C6	41:D6:40:DT:H72	2.51	0.45
48:E1:1:DT:H72	187:R5:42:DC:H2'	1.97	0.45
54:E8:16:DA:C2'	109:J8:22:DT:H72	2.46	0.45
58:ED:19:DG:H1'	58:ED:20:DA:H5'	1.97	0.45
67:FA:29:DC:H2'	67:FA:30:DT:H72	1.97	0.45
70:G1:3:DC:H2'	70:G1:4:DT:H72	1.97	0.45
72:G3:8:DA:C2'	72:G3:9:DT:H72	2.46	0.45
74:G6:14:DT:C6	74:G6:15:DT:H72	2.51	0.45
74:G6:30:DC:H2'	213:U3:15:DT:H72	1.97	0.45
77:G9:13:DA:C2'	77:G9:14:DT:H72	2.46	0.45
89:HA:5:DA:C2'	89:HA:6:DT:H72	2.46	0.45
92:I1:9:DA:C2'	92:I1:10:DT:H72	2.46	0.45
96:I6:12:DT:C6	96:I6:13:DT:H72	2.51	0.45
102:ID:2:DG:H1'	102:ID:3:DA:H5'	1.98	0.45
103:J1:9:DG:H1'	103:J1:10:DA:H5'	1.98	0.45
103:J1:28:DT:C6	211:TD:1:DT:H72	2.51	0.45
105:J3:26:DT:C6	105:J3:27:DT:H72	2.51	0.45
107:J6:12:DG:H1'	107:J6:13:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
109:J8:47:DC:H2'	109:J8:48:DT:H72	1.97	0.45
111:JA:15:DC:H2'	111:JA:16:DT:H72	1.97	0.45
114:K1:34:DA:C2'	114:K1:35:DT:H72	2.46	0.45
115:K2:32:DT:C6	115:K2:33:DT:H72	2.51	0.45
117:K5:30:DT:C6	117:K5:31:DT:H72	2.51	0.45
119:K7:37:DT:C6	119:K7:38:DT:H72	2.51	0.45
121:K9:5:DA:C2'	121:K9:6:DT:H72	2.46	0.45
122:KA:51:DA:C2'	155:ND:1:DT:H72	2.46	0.45
123:KC:27:DT:C6	123:KC:28:DT:H72	2.51	0.45
141:M8:10:DA:C2'	141:M8:11:DT:H72	2.46	0.45
141:M8:28:DT:C6	141:M8:29:DT:H72	2.51	0.45
148:N5:5:DG:H1'	148:N5:6:DA:H5'	1.98	0.45
152:N9:9:DT:C6	152:N9:10:DT:H72	2.51	0.45
153:NA:17:DG:H1'	153:NA:18:DA:H5'	1.98	0.45
154:NC:6:DG:H1'	154:NC:7:DA:H5'	1.98	0.45
158:O5:33:DA:C2'	158:O5:34:DT:H72	2.46	0.45
165:OD:32:DG:H1'	165:OD:33:DA:H5'	1.97	0.45
170:P7:17:DG:H1'	170:P7:18:DA:H5'	1.97	0.45
171:P8:22:DT:C6	171:P8:23:DT:H72	2.51	0.45
172:P9:9:DA:C2'	172:P9:10:DT:H72	2.46	0.45
178:Q5:19:DT:C6	178:Q5:20:DT:H72	2.51	0.45
181:Q9:9:DT:C6	181:Q9:10:DT:H72	2.51	0.45
181:Q9:10:DT:C6	181:Q9:11:DT:H72	2.51	0.45
189:R8:12:DT:C6	189:R8:13:DT:H72	2.51	0.45
189:R8:33:DT:C6	189:R8:34:DT:H72	2.51	0.45
190:R9:2:DT:C6	190:R9:3:DT:H72	2.51	0.45
194:S2:8:DT:C6	194:S2:9:DT:H72	2.51	0.45
194:S2:18:DG:H1'	194:S2:19:DA:H5'	1.98	0.45
195:S3:27:DA:C2'	195:S3:28:DT:H72	2.46	0.45
203:T2:26:DG:H1'	203:T2:27:DA:H5'	1.97	0.45
205:T5:6:DC:H2'	205:T5:7:DT:H72	1.97	0.45
208:T9:5:DA:C2'	208:T9:6:DT:H72	2.46	0.45
209:TA:22:DC:H2'	209:TA:23:DT:H72	1.97	0.45
211:TD:33:DT:C6	211:TD:34:DT:H72	2.51	0.45
214:U5:22:DC:H2'	214:U5:23:DT:H72	1.97	0.45
219:UC:11:DT:C6	219:UC:12:DT:H72	2.51	0.45
223:V5:33:DT:C6	223:V5:34:DT:H72	2.51	0.45
224:V7:6:DC:H2'	224:V7:7:DT:H72	1.97	0.45
224:V7:18:DT:C6	224:V7:19:DT:H72	2.51	0.45
231:W5:26:DT:C6	231:W5:27:DT:H72	2.51	0.45
232:W7:26:DT:C6	232:W7:27:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
235:WD:19:DT:C6	235:WD:20:DT:H72	2.51	0.45
236:X5:24:DA:C2'	236:X5:25:DT:H72	2.46	0.45
1:A1:55:DA:C2'	1:A1:56:DT:H72	2.46	0.45
4:A4:23:DG:H1'	4:A4:24:DA:H5'	1.98	0.45
4:A4:28:DT:C6	4:A4:29:DT:H72	2.51	0.45
7:A7:28:DT:C6	7:A7:29:DT:H72	2.51	0.45
8:A8:10:DG:H1'	8:A8:11:DA:H5'	1.97	0.45
8:A8:17:DA:C2'	8:A8:18:DT:H72	2.46	0.45
9:A9:4:DT:C6	9:A9:5:DT:H72	2.51	0.45
9:A9:8:DG:H1'	9:A9:9:DA:H5'	1.97	0.45
11:AB:23:DA:C2'	11:AB:24:DT:H72	2.46	0.45
11:AB:79:DC:H2'	11:AB:80:DT:H72	1.97	0.45
11:AB:124:DG:H1'	11:AB:125:DA:H5'	1.98	0.45
11:AB:138:DG:H1'	11:AB:139:DA:H5'	1.98	0.45
11:AB:251:DA:C2'	11:AB:252:DT:H72	2.46	0.45
11:AB:399:DG:H1'	11:AB:400:DA:H5'	1.98	0.45
11:AB:474:DG:H1'	11:AB:475:DA:H5'	1.98	0.45
11:AB:628:DG:H1'	11:AB:629:DA:H5'	1.98	0.45
11:AB:887:DC:H2'	11:AB:888:DT:H72	1.97	0.45
11:AB:934:DC:H2'	11:AB:935:DT:H72	1.97	0.45
11:AB:989:DG:H1'	11:AB:990:DA:H5'	1.98	0.45
11:AB:1024:DA:C2'	11:AB:1025:DT:H72	2.46	0.45
11:AB:1072:DC:H2'	11:AB:1073:DT:H72	1.97	0.45
11:AB:1110:DA:C2'	11:AB:1111:DT:H72	2.46	0.45
11:AB:1201:DA:C2'	11:AB:1202:DT:H72	2.46	0.45
11:AB:1270:DC:H2'	11:AB:1271:DT:H72	1.97	0.45
11:AB:1382:DA:C2'	11:AB:1383:DT:H72	2.46	0.45
11:AB:1393:DT:C6	11:AB:1394:DT:H72	2.51	0.45
11:AB:1416:DG:H1'	11:AB:1417:DA:H5'	1.98	0.45
11:AB:1427:DA:C2'	11:AB:1428:DT:H72	2.46	0.45
11:AB:1531:DG:H1'	11:AB:1532:DA:H5'	1.98	0.45
11:AB:1565:DA:C2'	11:AB:1566:DT:H72	2.46	0.45
11:AB:1614:DC:H2'	11:AB:1615:DT:H72	1.97	0.45
11:AB:1775:DT:C6	11:AB:1776:DT:H72	2.51	0.45
11:AB:1938:DA:C2'	11:AB:1939:DT:H72	2.46	0.45
11:AB:2147:DC:H2'	11:AB:2148:DT:H72	1.97	0.45
11:AB:2231:DT:C6	11:AB:2232:DT:H72	2.51	0.45
11:AB:2271:DA:C2'	11:AB:2272:DT:H72	2.46	0.45
11:AB:2299:DT:C6	11:AB:2300:DT:H72	2.51	0.45
11:AB:2393:DT:C6	11:AB:2394:DT:H72	2.51	0.45
11:AB:2486:DG:H1'	11:AB:2487:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2529:DC:H2'	11:AB:2530:DT:H72	1.97	0.45
11:AB:2547:DT:C6	11:AB:2548:DT:H72	2.51	0.45
11:AB:2623:DA:C2'	11:AB:2624:DT:H72	2.46	0.45
11:AB:2752:DT:C6	11:AB:2753:DT:H72	2.51	0.45
11:AB:2773:DT:C6	11:AB:2774:DT:H72	2.51	0.45
11:AB:2793:DG:H1'	11:AB:2794:DA:H5'	1.98	0.45
11:AB:2888:DA:C2'	11:AB:2889:DT:H72	2.46	0.45
11:AB:2930:DT:C6	11:AB:2931:DT:H72	2.51	0.45
11:AB:2984:DC:H2'	11:AB:2985:DT:H72	1.97	0.45
11:AB:3036:DT:H72	11:AB:4991:DC:H2'	1.97	0.45
11:AB:3391:DG:H1'	11:AB:3392:DA:H5'	1.98	0.45
11:AB:3534:DT:C6	11:AB:3535:DT:H72	2.51	0.45
11:AB:3796:DG:H1'	11:AB:3797:DA:H5'	1.98	0.45
11:AB:3896:DG:H1'	11:AB:3897:DA:H5'	1.98	0.45
11:AB:3923:DC:H2'	11:AB:3924:DT:H72	1.97	0.45
11:AB:4119:DC:H2'	11:AB:4120:DT:H72	1.97	0.45
11:AB:4190:DT:C6	11:AB:4191:DT:H72	2.51	0.45
11:AB:4217:DC:H2'	11:AB:4218:DT:H72	1.97	0.45
11:AB:4433:DT:C6	11:AB:4434:DT:H72	2.51	0.45
11:AB:4504:DC:H2'	11:AB:4505:DT:H72	1.97	0.45
11:AB:4590:DG:H2''	11:AB:4591:DC:O5'	2.13	0.45
11:AB:4738:DA:C2'	11:AB:4739:DT:H72	2.46	0.45
11:AB:4951:DG:H2''	11:AB:4952:DC:O5'	2.13	0.45
11:AB:5125:DT:C6	11:AB:5126:DT:H72	2.51	0.45
11:AB:5206:DT:C6	11:AB:5207:DT:H72	2.51	0.45
11:AB:5270:DT:C6	11:AB:5271:DT:H72	2.51	0.45
11:AB:5299:DG:H1'	11:AB:5300:DA:H5'	1.98	0.45
11:AB:5403:DA:C2'	11:AB:5404:DT:H72	2.46	0.45
11:AB:5417:DA:C2'	11:AB:5418:DT:H72	2.46	0.45
11:AB:5431:DC:H2'	11:AB:5432:DT:H72	1.97	0.45
11:AB:5441:DG:H1'	11:AB:5442:DA:H5'	1.98	0.45
11:AB:5456:DA:C2'	11:AB:5457:DT:H72	2.46	0.45
11:AB:5564:DA:C2'	11:AB:5565:DT:H72	2.46	0.45
11:AB:5686:DG:H1'	11:AB:5687:DA:H5'	1.98	0.45
11:AB:5783:DC:H2'	11:AB:5784:DT:H72	1.97	0.45
11:AB:5804:DA:C2'	11:AB:5805:DT:H72	2.46	0.45
11:AB:5943:DT:C6	11:AB:5944:DT:H72	2.51	0.45
11:AB:5952:DT:C6	11:AB:5953:DT:H72	2.51	0.45
11:AB:6075:DC:H2'	11:AB:6076:DT:H72	1.97	0.45
11:AB:6168:DG:H2''	11:AB:6169:DC:O5'	2.13	0.45
11:AB:6196:DC:H2'	11:AB:6197:DT:H72	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6320:DA:C2'	11:AB:6321:DT:H72	2.46	0.45
11:AB:6371:DC:H2'	11:AB:6372:DT:H72	1.97	0.45
11:AB:6417:DT:C6	11:AB:6418:DT:H72	2.51	0.45
11:AB:6454:DG:H1'	11:AB:6455:DA:H5'	1.98	0.45
11:AB:6603:DT:C6	11:AB:6604:DT:H72	2.51	0.45
11:AB:6616:DG:H1'	11:AB:6617:DA:H5'	1.98	0.45
11:AB:6626:DA:C2'	11:AB:6627:DT:H72	2.46	0.45
11:AB:6712:DC:H2'	11:AB:6713:DT:H72	1.97	0.45
11:AB:6761:DT:C6	11:AB:6762:DT:H72	2.51	0.45
11:AB:6766:DT:C6	11:AB:6767:DT:H72	2.51	0.45
11:AB:6949:DG:H1'	11:AB:6950:DA:H5'	1.98	0.45
11:AB:6970:DA:C2'	11:AB:6971:DT:H72	2.46	0.45
11:AB:6976:DA:C2'	11:AB:6977:DT:H72	2.46	0.45
11:AB:7158:DT:C6	11:AB:7159:DT:H72	2.51	0.45
11:AB:7193:DG:H1'	11:AB:7194:DA:H5'	1.98	0.45
18:B5:27:DT:C6	18:B5:28:DT:H72	2.51	0.45
19:B6:15:DG:H1'	19:B6:16:DA:H5'	1.97	0.45
23:BA:13:DA:C2'	23:BA:14:DT:H72	2.46	0.45
23:BA:28:DT:C6	23:BA:29:DT:H72	2.51	0.45
37:D1:15:DG:H1'	37:D1:16:DA:H5'	1.98	0.45
44:D9:21:DA:C2'	209:TA:40:DT:H72	2.46	0.45
44:D9:24:DG:H1'	44:D9:25:DA:H5'	1.98	0.45
47:DD:21:DA:C2'	47:DD:22:DT:H72	2.46	0.45
49:E2:22:DT:C6	49:E2:23:DT:H72	2.51	0.45
55:E9:38:DG:H1'	55:E9:39:DA:H5'	1.98	0.45
57:EC:6:DT:C6	57:EC:7:DT:H72	2.51	0.45
59:F1:11:DC:H2'	59:F1:12:DT:H72	1.97	0.45
61:F3:23:DG:H1'	61:F3:24:DA:H5'	1.98	0.45
62:F5:30:DT:C6	62:F5:31:DT:H72	2.51	0.45
62:F5:44:DT:C6	62:F5:45:DT:H72	2.51	0.45
65:F8:1:DC:H2'	65:F8:2:DT:H72	1.97	0.45
69:FD:35:DA:C2'	69:FD:36:DT:H72	2.46	0.45
74:G6:7:DG:H1'	74:G6:8:DA:H5'	1.98	0.45
74:G6:15:DT:C6	74:G6:16:DT:H72	2.51	0.45
82:H2:45:DT:C6	82:H2:46:DT:H72	2.51	0.45
85:H6:31:DG:H1'	85:H6:32:DA:H5'	1.98	0.45
89:HA:28:DG:H1'	89:HA:29:DA:H5'	1.97	0.45
90:HC:25:DG:H1'	90:HC:26:DA:H5'	1.97	0.45
95:I5:4:DT:C6	95:I5:5:DT:H72	2.51	0.45
95:I5:38:DG:H1'	95:I5:39:DA:H5'	1.98	0.45
97:I7:12:DT:C6	97:I7:13:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
103:J1:7:DC:H2'	175:PD:7:DT:H72	1.97	0.45
103:J1:27:DT:C6	103:J1:28:DT:H72	2.51	0.45
107:J6:36:DT:H72	165:OD:21:DA:C2'	2.46	0.45
114:K1:6:DA:C2'	114:K1:7:DT:H72	2.46	0.45
115:K2:21:DC:H2'	115:K2:22:DT:H72	1.97	0.45
116:K3:12:DA:C2'	116:K3:13:DT:H72	2.46	0.45
117:K5:17:DG:H1'	117:K5:18:DA:H5'	1.98	0.45
118:K6:20:DT:C6	118:K6:21:DT:H72	2.51	0.45
124:KD:19:DG:H1'	124:KD:20:DA:H5'	1.98	0.45
125:L1:22:DT:H72	195:S3:21:DA:C2'	2.46	0.45
127:L3:13:DT:C6	127:L3:14:DT:H72	2.51	0.45
129:L6:25:DG:H1'	129:L6:26:DA:H5'	1.98	0.45
132:L9:7:DA:C2'	132:L9:8:DT:H72	2.46	0.45
136:M2:11:DT:C6	136:M2:12:DT:H72	2.51	0.45
137:M3:17:DG:H1'	137:M3:18:DA:H5'	1.98	0.45
138:M5:6:DG:H1'	138:M5:7:DA:H5'	1.98	0.45
138:M5:11:DT:C6	138:M5:12:DT:H72	2.51	0.45
138:M5:32:DG:H1'	138:M5:33:DA:H5'	1.98	0.45
138:M5:39:DT:C6	138:M5:40:DT:H72	2.51	0.45
140:M7:4:DA:C2'	140:M7:5:DT:H72	2.46	0.45
141:M8:29:DT:C6	141:M8:30:DT:H72	2.51	0.45
142:M9:17:DT:H72	173:PA:14:DA:C2'	2.46	0.45
155:ND:11:DT:C6	155:ND:12:DT:H72	2.51	0.45
155:ND:14:DG:H1'	155:ND:15:DA:H5'	1.98	0.45
156:O2:19:DG:H1'	156:O2:20:DA:H5'	1.98	0.45
161:O8:5:DT:H72	183:QC:23:DA:C2'	2.46	0.45
172:P9:20:DG:H2''	172:P9:21:DC:O5'	2.13	0.45
176:Q2:9:DA:C2'	176:Q2:10:DT:H72	2.46	0.45
178:Q5:18:DT:C6	178:Q5:19:DT:H72	2.51	0.45
178:Q5:20:DT:C6	178:Q5:21:DT:H72	2.51	0.45
180:Q8:8:DA:C2'	180:Q8:9:DT:H72	2.46	0.45
184:QD:11:DT:C6	184:QD:12:DT:H72	2.51	0.45
190:R9:33:DA:C2'	190:R9:34:DT:H72	2.46	0.45
191:RA:17:DT:C6	191:RA:18:DT:H72	2.51	0.45
193:RD:17:DT:C6	193:RD:18:DT:H72	2.51	0.45
197:S7:8:DC:H2'	197:S7:9:DT:H72	1.97	0.45
204:T3:11:DT:C6	204:T3:12:DT:H72	2.51	0.45
204:T3:26:DC:H2'	204:T3:27:DT:H72	1.97	0.45
206:T7:55:DG:H1'	206:T7:56:DA:H5'	1.98	0.45
207:T8:14:DG:H1'	207:T8:15:DA:H5'	1.98	0.45
208:T9:18:DC:H2'	208:T9:19:DT:H72	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
212:U2:8:DA:C2'	212:U2:9:DT:H72	2.46	0.45
217:U9:14:DT:C6	217:U9:15:DT:H72	2.51	0.45
218:UA:11:DG:H1'	218:UA:12:DA:H5'	1.98	0.45
219:UC:31:DG:H1'	219:UC:32:DA:H5'	1.98	0.45
222:V3:21:DG:H1'	222:V3:22:DA:H5'	1.98	0.45
228:VC:36:DA:C2'	228:VC:37:DT:H72	2.46	0.45
232:W7:20:DC:H2'	232:W7:21:DT:H72	1.97	0.45
236:X5:15:DT:C6	236:X5:16:DT:H72	2.51	0.45
4:A4:24:DA:C2'	67:FA:8:DT:H72	2.46	0.45
7:A7:8:DG:H1'	7:A7:9:DA:H5'	1.98	0.45
9:A9:1:DT:H72	67:FA:21:DA:C2'	2.46	0.45
11:AB:50:DA:C2'	11:AB:51:DT:H72	2.46	0.45
11:AB:295:DC:H2'	11:AB:296:DT:H72	1.97	0.45
11:AB:321:DG:H2''	11:AB:322:DC:O5'	2.13	0.45
11:AB:469:DC:H2'	11:AB:470:DT:H72	1.97	0.45
11:AB:582:DG:H1'	11:AB:583:DA:H5'	1.98	0.45
11:AB:610:DT:C6	11:AB:611:DT:H72	2.51	0.45
11:AB:799:DT:C6	11:AB:800:DT:H72	2.51	0.45
11:AB:835:DC:H2'	11:AB:836:DT:H72	1.97	0.45
11:AB:931:DG:H2''	11:AB:932:DC:O5'	2.13	0.45
11:AB:1212:DT:C6	11:AB:1213:DT:H72	2.51	0.45
11:AB:1329:DT:C6	11:AB:1330:DT:H72	2.51	0.45
11:AB:1332:DT:C6	11:AB:1333:DT:H72	2.51	0.45
11:AB:1374:DA:C2'	11:AB:1375:DT:H72	2.46	0.45
11:AB:1502:DC:H2'	11:AB:1503:DT:H72	1.97	0.45
11:AB:1523:DT:C6	11:AB:1524:DT:H72	2.51	0.45
11:AB:1678:DT:C6	11:AB:1679:DT:H72	2.51	0.45
11:AB:1747:DT:C6	11:AB:1748:DT:H72	2.51	0.45
11:AB:2042:DT:C6	11:AB:2043:DT:H72	2.51	0.45
11:AB:2058:DT:H72	11:AB:5777:DA:C2'	2.46	0.45
11:AB:2124:DG:H1'	11:AB:2125:DA:H5'	1.98	0.45
11:AB:2214:DG:H1'	11:AB:2215:DA:H5'	1.98	0.45
11:AB:2313:DG:H1'	11:AB:2314:DA:H5'	1.98	0.45
11:AB:2420:DT:C6	11:AB:2421:DT:H72	2.51	0.45
11:AB:2441:DT:C6	11:AB:2442:DT:H72	2.51	0.45
11:AB:2444:DA:C2'	11:AB:2445:DT:H72	2.46	0.45
11:AB:2469:DT:C6	11:AB:2470:DT:H72	2.51	0.45
11:AB:2489:DG:H1'	11:AB:2490:DA:H5'	1.98	0.45
11:AB:2510:DG:H1'	11:AB:2511:DA:H5'	1.98	0.45
11:AB:2540:DG:H1'	11:AB:2541:DA:H5'	1.98	0.45
11:AB:2545:DG:H1'	11:AB:2546:DA:H5'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2564:DA:C2'	11:AB:2565:DT:H72	2.46	0.45
11:AB:2596:DT:C6	11:AB:2597:DT:H72	2.51	0.45
11:AB:2634:DT:C6	11:AB:2635:DT:H72	2.51	0.45
11:AB:2768:DT:C6	11:AB:2769:DT:H72	2.51	0.45
11:AB:2826:DG:H1'	11:AB:2827:DA:H5'	1.98	0.45
11:AB:2903:DA:C2'	11:AB:2904:DT:H72	2.46	0.45
11:AB:2920:DG:H1'	11:AB:2921:DA:H5'	1.98	0.45
11:AB:3147:DT:C6	11:AB:3148:DT:H72	2.51	0.45
11:AB:3365:DA:C2'	11:AB:3366:DT:H72	2.46	0.45
11:AB:3388:DA:C2'	11:AB:3389:DT:H72	2.46	0.45
11:AB:3402:DA:C2'	11:AB:3403:DT:H72	2.46	0.45
11:AB:3406:DG:H1'	11:AB:3407:DA:H5'	1.98	0.45
11:AB:3427:DT:C6	11:AB:3428:DT:H72	2.51	0.45
11:AB:3544:DG:H1'	11:AB:3545:DA:H5'	1.98	0.45
11:AB:3715:DT:C6	11:AB:3716:DT:H72	2.51	0.45
11:AB:3799:DA:C2'	11:AB:3800:DT:H72	2.46	0.45
11:AB:3819:DT:C6	11:AB:3820:DT:H72	2.51	0.45
11:AB:3868:DA:C2'	11:AB:3869:DT:H72	2.46	0.45
11:AB:3892:DG:H1'	11:AB:3893:DA:H5'	1.98	0.45
11:AB:3973:DA:C2'	11:AB:3974:DT:H72	2.46	0.45
11:AB:4491:DT:C6	11:AB:4492:DT:H72	2.51	0.45
11:AB:4536:DT:C6	11:AB:4537:DT:H72	2.51	0.45
11:AB:4713:DT:C6	11:AB:4714:DT:H72	2.51	0.45
11:AB:4748:DG:H1'	11:AB:4749:DA:H5'	1.98	0.45
11:AB:4789:DG:H1'	11:AB:4790:DA:H5'	1.98	0.45
11:AB:4801:DG:H1'	11:AB:4802:DA:H5'	1.98	0.45
11:AB:4892:DG:H1'	11:AB:4893:DA:H5'	1.98	0.45
11:AB:5021:DT:C6	11:AB:5022:DT:H72	2.51	0.45
11:AB:5157:DA:C2'	11:AB:5158:DT:H72	2.46	0.45
11:AB:5386:DT:C6	11:AB:5387:DT:H72	2.51	0.45
11:AB:5478:DC:H2'	11:AB:5479:DT:H72	1.97	0.45
11:AB:5494:DA:C2'	11:AB:5495:DT:H72	2.46	0.45
11:AB:5518:DA:C2'	11:AB:5519:DT:H72	2.46	0.45
11:AB:5549:DC:H2'	11:AB:5550:DT:H72	1.97	0.45
11:AB:5572:DG:H1'	11:AB:5573:DA:H5'	1.98	0.45
11:AB:5731:DT:C6	11:AB:5732:DT:H72	2.51	0.45
11:AB:5845:DG:H1'	11:AB:5846:DA:H5'	1.98	0.45
11:AB:5846:DA:C2'	11:AB:5847:DT:H72	2.46	0.45
11:AB:5958:DA:C2'	11:AB:5959:DT:H72	2.46	0.45
11:AB:6139:DC:H2'	11:AB:6140:DT:H72	1.97	0.45
11:AB:6194:DC:H2'	11:AB:6195:DT:H72	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6280:DT:C6	11:AB:6281:DT:H72	2.51	0.45
11:AB:6333:DT:C6	11:AB:6334:DT:H72	2.51	0.45
11:AB:6466:DC:H2'	11:AB:6467:DT:H72	1.97	0.45
11:AB:6489:DT:C6	11:AB:6490:DT:H72	2.51	0.45
11:AB:6540:DG:H1'	11:AB:6541:DA:H5'	1.98	0.45
11:AB:6596:DA:C2'	11:AB:6597:DT:H72	2.46	0.45
11:AB:6666:DA:C2'	11:AB:6667:DT:H72	2.46	0.45
11:AB:6780:DG:H1'	11:AB:6781:DA:H5'	1.98	0.45
11:AB:6801:DA:C2'	11:AB:6802:DT:H72	2.46	0.45
11:AB:6813:DG:H1'	11:AB:6814:DA:H5'	1.98	0.45
11:AB:6850:DT:C6	11:AB:6851:DT:H72	2.51	0.45
11:AB:6884:DT:C6	11:AB:6885:DT:H72	2.51	0.45
11:AB:6928:DA:C2'	11:AB:6929:DT:H72	2.46	0.45
11:AB:6957:DT:C6	11:AB:6958:DT:H72	2.51	0.45
11:AB:7093:DA:C2'	11:AB:7094:DT:H72	2.46	0.45
14:B1:33:DG:H2''	14:B1:34:DC:O5'	2.13	0.45
17:B4:5:DA:C2'	17:B4:6:DT:H72	2.46	0.45
22:B9:22:DG:H1'	22:B9:23:DA:H5'	1.98	0.45
26:C1:15:DT:C6	26:C1:16:DT:H72	2.51	0.45
32:C8:1:DA:C2'	32:C8:2:DT:H72	2.46	0.45
32:C8:49:DT:C6	32:C8:50:DT:H72	2.51	0.45
32:C8:53:DG:H1'	32:C8:54:DA:H5'	1.98	0.45
33:C9:25:DA:C2'	33:C9:26:DT:H72	2.46	0.45
35:CC:13:DT:C6	35:CC:14:DT:H72	2.51	0.45
36:CD:8:DT:H72	69:FD:7:DA:C2'	2.46	0.45
40:D5:19:DG:H1'	40:D5:20:DA:H5'	1.98	0.45
41:D6:9:DG:H1'	41:D6:10:DA:H5'	1.97	0.45
41:D6:21:DA:C2'	211:TD:22:DT:H72	2.46	0.45
42:D7:15:DG:H1'	42:D7:16:DA:H5'	1.97	0.45
43:D8:11:DT:C6	43:D8:12:DT:H72	2.51	0.45
45:DA:23:DA:C2'	45:DA:24:DT:H72	2.46	0.45
50:E3:14:DA:C2'	181:Q9:33:DT:H72	2.46	0.45
51:E5:21:DT:C6	51:E5:22:DT:H72	2.51	0.45
51:E5:28:DG:H1'	51:E5:29:DA:H5'	1.97	0.45
52:E6:4:DG:H1'	52:E6:5:DA:H5'	1.98	0.45
56:EA:13:DT:C6	56:EA:14:DT:H72	2.51	0.45
57:EC:5:DA:C2'	57:EC:6:DT:H72	2.46	0.45
57:EC:21:DG:H1'	57:EC:22:DA:H5'	1.98	0.45
58:ED:14:DA:C2'	58:ED:15:DT:H72	2.46	0.45
61:F3:14:DA:C2'	220:UD:17:DT:H72	2.46	0.45
62:F5:21:DT:C6	62:F5:22:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:F5:32:DT:H72	197:S7:17:DA:C2'	2.46	0.45
67:FA:32:DG:H1'	67:FA:33:DA:H5'	1.98	0.45
74:G6:5:DG:H1'	74:G6:6:DA:H5'	1.98	0.45
82:H2:55:DG:H1'	108:J7:1:DA:H5'	1.98	0.45
87:H8:21:DG:H1'	87:H8:22:DA:H5'	1.98	0.45
89:HA:17:DT:C6	89:HA:18:DT:H72	2.51	0.45
91:HD:13:DT:C6	91:HD:14:DT:H72	2.51	0.45
93:I2:26:DC:H2'	93:I2:27:DT:H72	1.97	0.45
95:I5:12:DG:H1'	95:I5:13:DA:H5'	1.98	0.45
102:ID:21:DG:H1'	102:ID:22:DA:H5'	1.97	0.45
104:J2:40:DA:C2'	104:J2:41:DT:H72	2.46	0.45
111:JA:6:DG:H1'	111:JA:7:DA:H5'	1.98	0.45
118:K6:19:DA:C2'	118:K6:20:DT:H72	2.46	0.45
119:K7:35:DG:H1'	119:K7:36:DA:H5'	1.98	0.45
121:K9:9:DG:H1'	121:K9:10:DA:H5'	1.98	0.45
126:L2:10:DT:C6	126:L2:11:DT:H72	2.51	0.45
127:L3:5:DC:H2'	127:L3:6:DT:H72	1.97	0.45
128:L5:7:DT:C6	128:L5:8:DT:H72	2.51	0.45
132:L9:18:DT:C6	132:L9:19:DT:H72	2.51	0.45
137:M3:34:DG:H1'	137:M3:35:DA:H5'	1.98	0.45
138:M5:16:DG:H1'	138:M5:17:DA:H5'	1.98	0.45
139:M6:8:DA:C2'	139:M6:9:DT:H72	2.46	0.45
145:MD:2:DA:C2'	145:MD:3:DT:H72	2.46	0.45
145:MD:29:DT:C6	145:MD:30:DT:H72	2.51	0.45
147:N3:7:DG:H1'	147:N3:8:DA:H5'	1.98	0.45
152:N9:11:DT:H72	208:T9:13:DA:C2'	2.46	0.45
154:NC:38:DA:C2'	219:UC:21:DT:H72	2.46	0.45
156:O2:33:DC:H2'	156:O2:34:DT:H72	1.97	0.45
160:O7:23:DT:C6	160:O7:24:DT:H72	2.51	0.45
161:O8:28:DG:H1'	161:O8:29:DA:H5'	1.98	0.45
165:OD:33:DA:C2'	165:OD:34:DT:H72	2.46	0.45
165:OD:56:DC:H2'	165:OD:57:DT:H72	1.97	0.45
171:P8:21:DT:C6	171:P8:22:DT:H72	2.51	0.45
181:Q9:8:DT:C6	181:Q9:9:DT:H72	2.51	0.45
181:Q9:29:DT:C6	181:Q9:30:DT:H72	2.51	0.45
182:QA:18:DG:H1'	182:QA:19:DA:H5'	1.98	0.45
188:R7:5:DG:H1'	188:R7:6:DA:H5'	1.98	0.45
189:R8:13:DT:C6	189:R8:14:DT:H72	2.51	0.45
190:R9:8:DG:H1'	190:R9:9:DA:H5'	1.98	0.45
194:S2:12:DG:H1'	194:S2:13:DA:H5'	1.98	0.45
200:SA:9:DA:C2'	200:SA:10:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
206:T7:50:DG:H1'	206:T7:51:DA:H5'	1.98	0.45
209:TA:19:DT:C6	209:TA:20:DT:H72	2.51	0.45
211:TD:18:DT:C6	211:TD:19:DT:H72	2.51	0.45
211:TD:25:DT:C6	211:TD:26:DT:H72	2.51	0.45
219:UC:6:DC:H2'	219:UC:7:DT:H72	1.97	0.45
220:UD:2:DT:C6	220:UD:3:DT:H72	2.51	0.45
221:V2:10:DA:C2'	221:V2:11:DT:H72	2.46	0.45
231:W5:29:DT:C6	231:W5:30:DT:H72	2.51	0.45
238:X9:45:DA:C2'	238:X9:46:DT:H72	2.46	0.45
2:A2:18:DT:H72	206:T7:45:DT:C6	2.51	0.45
2:A2:28:DT:C6	2:A2:29:DT:H72	2.51	0.45
5:A5:1:DT:C6	5:A5:2:DT:H72	2.51	0.45
11:AB:27:DT:C6	11:AB:28:DT:H72	2.51	0.45
11:AB:132:DT:C6	11:AB:133:DT:H72	2.51	0.45
11:AB:188:DT:C6	11:AB:189:DT:H72	2.51	0.45
11:AB:319:DA:C2'	11:AB:320:DT:H72	2.46	0.45
11:AB:420:DG:H1'	11:AB:421:DA:H5'	1.98	0.45
11:AB:446:DT:C6	11:AB:447:DT:H72	2.51	0.45
11:AB:450:DG:H1'	11:AB:451:DA:H5'	1.98	0.45
11:AB:490:DC:H2'	11:AB:491:DT:H72	1.97	0.45
11:AB:595:DT:C6	11:AB:596:DT:H72	2.51	0.45
11:AB:676:DG:H2''	11:AB:677:DC:O5'	2.13	0.45
11:AB:762:DG:H1'	11:AB:763:DA:H5'	1.98	0.45
11:AB:789:DG:H1'	11:AB:790:DA:H5'	1.98	0.45
11:AB:947:DT:C6	11:AB:948:DT:H72	2.51	0.45
11:AB:976:DT:C6	11:AB:977:DT:H72	2.51	0.45
11:AB:990:DA:C2'	11:AB:991:DT:H72	2.46	0.45
11:AB:1066:DT:C6	11:AB:1067:DT:H72	2.51	0.45
11:AB:1107:DT:C6	11:AB:1108:DT:H72	2.51	0.45
11:AB:1121:DT:C6	11:AB:1122:DT:H72	2.51	0.45
11:AB:1205:DT:C6	11:AB:1206:DT:H72	2.51	0.45
11:AB:1299:DG:H1'	11:AB:1300:DA:H5'	1.98	0.45
11:AB:1475:DC:H2'	11:AB:1476:DT:H72	1.97	0.45
11:AB:1487:DT:C6	11:AB:1488:DT:H72	2.51	0.45
11:AB:1541:DG:H2''	11:AB:1542:DC:O5'	2.13	0.45
11:AB:1607:DA:C2'	11:AB:1608:DT:H72	2.46	0.45
11:AB:1618:DA:C2'	11:AB:1619:DT:H72	2.46	0.45
11:AB:1680:DT:C6	11:AB:1681:DT:H72	2.51	0.45
11:AB:1717:DT:C6	11:AB:1718:DT:H72	2.51	0.45
11:AB:1930:DT:C6	11:AB:1931:DT:H72	2.51	0.45
11:AB:1944:DG:H1'	11:AB:1945:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1962:DG:H1'	11:AB:1963:DA:H5'	1.98	0.45
11:AB:2114:DA:C2'	11:AB:2115:DT:H72	2.46	0.45
11:AB:2160:DG:H1'	11:AB:2161:DA:H5'	1.98	0.45
11:AB:2161:DA:C2'	11:AB:2162:DT:H72	2.46	0.45
11:AB:2181:DT:C6	11:AB:2182:DT:H72	2.51	0.45
11:AB:2187:DG:H1'	11:AB:2188:DA:H5'	1.98	0.45
11:AB:2198:DT:C6	11:AB:2199:DT:H72	2.51	0.45
11:AB:2267:DG:H1'	11:AB:2268:DA:H5'	1.98	0.45
11:AB:2314:DA:C2'	11:AB:2315:DT:H72	2.46	0.45
11:AB:2342:DT:C6	11:AB:2343:DT:H72	2.51	0.45
11:AB:2363:DT:C6	11:AB:2364:DT:H72	2.51	0.45
11:AB:2483:DG:H1'	11:AB:2484:DA:H5'	1.98	0.45
11:AB:2519:DT:C6	11:AB:2520:DT:H72	2.51	0.45
11:AB:2541:DA:C2'	11:AB:2542:DT:H72	2.46	0.45
11:AB:2622:DG:H1'	11:AB:2623:DA:H5'	1.98	0.45
11:AB:2633:DA:C2'	11:AB:2634:DT:H72	2.46	0.45
11:AB:2682:DT:C6	11:AB:2683:DT:H72	2.51	0.45
11:AB:2688:DG:H1'	11:AB:2689:DA:H5'	1.98	0.45
11:AB:2703:DT:C6	11:AB:2704:DT:H72	2.51	0.45
11:AB:2819:DT:C6	11:AB:2820:DT:H72	2.51	0.45
11:AB:2844:DT:C6	11:AB:2845:DT:H72	2.51	0.45
11:AB:2861:DT:C6	11:AB:2862:DT:H72	2.51	0.45
11:AB:2868:DG:H1'	11:AB:2869:DA:H5'	1.98	0.45
11:AB:3000:DT:C6	11:AB:3001:DT:H72	2.51	0.45
11:AB:3029:DA:C2'	11:AB:3030:DT:H72	2.46	0.45
11:AB:3164:DT:C6	11:AB:3165:DT:H72	2.51	0.45
11:AB:3280:DT:C6	11:AB:3281:DT:H72	2.51	0.45
11:AB:3330:DT:C6	11:AB:3331:DT:H72	2.51	0.45
11:AB:3434:DT:C6	11:AB:3435:DT:H72	2.51	0.45
11:AB:3487:DG:H1'	11:AB:3488:DA:H5'	1.98	0.45
11:AB:3505:DT:C6	11:AB:3506:DT:H72	2.51	0.45
11:AB:3507:DA:C2'	11:AB:3508:DT:H72	2.46	0.45
11:AB:3522:DT:C6	11:AB:3523:DT:H72	2.51	0.45
11:AB:3747:DT:C6	11:AB:3748:DT:H72	2.51	0.45
11:AB:4229:DT:C6	11:AB:4230:DT:H72	2.51	0.45
11:AB:4272:DA:C2'	11:AB:4273:DT:H72	2.46	0.45
11:AB:4348:DT:C6	11:AB:4349:DT:H72	2.51	0.45
11:AB:4376:DG:H1'	11:AB:4377:DA:H5'	1.98	0.45
11:AB:4406:DC:H2'	11:AB:4407:DT:H72	1.97	0.45
11:AB:5110:DC:H2'	11:AB:5111:DT:H72	1.97	0.45
11:AB:5317:DT:C6	11:AB:5318:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5353:DA:C2'	11:AB:5354:DT:H72	2.46	0.45
11:AB:5462:DT:C6	11:AB:5463:DT:H72	2.51	0.45
11:AB:5507:DA:C2'	11:AB:5508:DT:H72	2.46	0.45
11:AB:5562:DA:C2'	11:AB:5563:DT:H72	2.46	0.45
11:AB:5578:DG:H1'	11:AB:5579:DA:H5'	1.98	0.45
11:AB:5639:DT:C6	11:AB:5640:DT:H72	2.51	0.45
11:AB:5644:DT:C6	11:AB:5645:DT:H72	2.51	0.45
11:AB:5729:DT:C6	11:AB:5730:DT:H72	2.51	0.45
11:AB:5853:DC:H2'	11:AB:5854:DT:H72	1.97	0.45
11:AB:6002:DT:C6	11:AB:6003:DT:H72	2.51	0.45
11:AB:6209:DA:C2'	11:AB:6210:DT:H72	2.46	0.45
11:AB:6262:DG:H1'	11:AB:6263:DA:H5'	1.98	0.45
11:AB:6263:DA:C2'	11:AB:6264:DT:H72	2.46	0.45
11:AB:6322:DA:C2'	11:AB:6323:DT:H72	2.46	0.45
11:AB:6516:DA:C2'	11:AB:6517:DT:H72	2.46	0.45
11:AB:6583:DT:C6	11:AB:6584:DT:H72	2.51	0.45
11:AB:6595:DG:H1'	11:AB:6596:DA:H5'	1.98	0.45
11:AB:6600:DT:C6	11:AB:6601:DT:H72	2.51	0.45
11:AB:6665:DG:H1'	11:AB:6666:DA:H5'	1.98	0.45
11:AB:6737:DT:C6	11:AB:6738:DT:H72	2.51	0.45
11:AB:6793:DT:C6	11:AB:6794:DT:H72	2.51	0.45
11:AB:6863:DT:C6	11:AB:6864:DT:H72	2.51	0.45
11:AB:6871:DT:C6	11:AB:6872:DT:H72	2.51	0.45
11:AB:6894:DA:C2'	11:AB:6895:DT:H72	2.46	0.45
11:AB:6943:DG:H1'	11:AB:6944:DA:H5'	1.98	0.45
11:AB:7043:DT:C6	11:AB:7044:DT:H72	2.51	0.45
11:AB:7047:DT:C6	11:AB:7048:DT:H72	2.51	0.45
11:AB:7199:DG:H1'	11:AB:7200:DA:H5'	1.98	0.45
11:AB:7220:DT:C6	11:AB:7221:DT:H72	2.51	0.45
12:AC:15:DT:C6	12:AC:16:DT:H72	2.51	0.45
13:AD:14:DG:H2''	13:AD:15:DC:O5'	2.13	0.45
16:B3:12:DG:H1'	16:B3:13:DA:H5'	1.98	0.45
20:B7:14:DT:H72	97:I7:27:DT:C6	2.51	0.45
20:B7:15:DT:C6	20:B7:16:DT:H72	2.51	0.45
22:B9:35:DT:C6	228:VC:8:DT:H72	2.51	0.45
26:C1:12:DT:H72	84:H5:12:DT:C6	2.51	0.45
28:C3:16:DA:C2'	204:T3:36:DT:H72	2.46	0.45
31:C7:25:DA:C2'	31:C7:26:DT:H72	2.46	0.45
32:C8:19:DG:H1'	32:C8:20:DA:H5'	1.98	0.45
36:CD:16:DT:C6	36:CD:17:DT:H72	2.51	0.45
38:D2:6:DG:H1'	38:D2:7:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:D5:16:DT:C6	231:W5:28:DT:H72	2.51	0.45
43:D8:15:DA:H5'	159:O6:7:DG:H1'	1.98	0.45
43:D8:27:DC:H2'	43:D8:28:DT:H72	1.97	0.45
43:D8:33:DG:H1'	43:D8:34:DA:H5'	1.98	0.45
47:DD:13:DA:C2'	47:DD:14:DT:H72	2.46	0.45
52:E6:1:DT:C6	52:E6:2:DT:H72	2.51	0.45
53:E7:2:DT:C6	53:E7:3:DT:H72	2.51	0.45
54:E8:31:DT:C6	54:E8:32:DT:H72	2.51	0.45
62:F5:28:DT:C6	62:F5:29:DT:H72	2.51	0.45
63:F6:11:DG:H2'	63:F6:12:DC:O5'	2.13	0.45
66:F9:19:DG:H1'	66:F9:20:DA:H5'	1.98	0.45
66:F9:20:DA:C2'	66:F9:21:DT:H72	2.46	0.45
78:GA:9:DT:C6	78:GA:10:DT:H72	2.51	0.45
89:HA:6:DT:C6	89:HA:7:DT:H72	2.51	0.45
89:HA:15:DT:C6	89:HA:16:DT:H72	2.51	0.45
94:I3:6:DA:C2'	94:I3:7:DT:H72	2.46	0.45
94:I3:12:DA:C2'	94:I3:13:DT:H72	2.46	0.45
99:I9:29:DG:H1'	99:I9:30:DA:H5'	1.98	0.45
102:ID:9:DT:C6	102:ID:10:DT:H72	2.51	0.45
104:J2:1:DG:H1'	104:J2:2:DA:H5'	1.98	0.45
104:J2:16:DG:H1'	104:J2:17:DA:H5'	1.98	0.45
105:J3:20:DT:C6	130:L7:50:DT:H72	2.51	0.45
106:J5:4:DG:H1'	106:J5:5:DA:H5'	1.98	0.45
111:JA:4:DG:H1'	111:JA:5:DA:H5'	1.98	0.45
112:JC:13:DC:H2'	112:JC:14:DT:H72	1.97	0.45
112:JC:20:DT:C6	112:JC:21:DT:H72	2.51	0.45
112:JC:21:DT:C6	112:JC:22:DT:H72	2.51	0.45
114:K1:19:DA:C2'	114:K1:20:DT:H72	2.46	0.45
117:K5:10:DC:H2'	117:K5:11:DT:H72	1.97	0.45
119:K7:24:DT:C6	119:K7:25:DT:H72	2.51	0.45
120:K8:18:DA:C2'	120:K8:19:DT:H72	2.46	0.45
122:KA:44:DG:H1'	122:KA:45:DA:H5'	1.98	0.45
126:L2:31:DT:C6	126:L2:32:DT:H72	2.51	0.45
144:MC:15:DT:C6	144:MC:16:DT:H72	2.51	0.45
146:N2:8:DG:H1'	146:N2:9:DA:H5'	1.98	0.45
148:N5:9:DT:C6	148:N5:10:DT:H72	2.51	0.45
149:N6:4:DT:C6	149:N6:5:DT:H72	2.51	0.45
152:N9:8:DA:C2'	152:N9:9:DT:H72	2.46	0.45
158:O5:46:DA:C2'	158:O5:47:DT:H72	2.46	0.45
159:O6:1:DT:C6	159:O6:2:DT:H72	2.51	0.45
161:O8:4:DT:C6	183:QC:24:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
162:O9:18:DC:H2'	162:O9:19:DT:H72	1.97	0.45
175:PD:14:DT:C6	175:PD:15:DT:H72	2.51	0.45
177:Q3:10:DT:C6	177:Q3:11:DT:H72	2.51	0.45
183:QC:11:DG:H1'	183:QC:12:DA:H5'	1.98	0.45
183:QC:25:DT:C6	183:QC:26:DT:H72	2.51	0.45
185:R2:1:DT:C6	185:R2:2:DT:H72	2.51	0.45
185:R2:8:DG:H1'	185:R2:9:DA:H5'	1.98	0.45
190:R9:5:DT:C6	190:R9:6:DT:H72	2.51	0.45
190:R9:19:DT:C6	190:R9:20:DT:H72	2.51	0.45
191:RA:15:DG:H1'	191:RA:16:DA:H5'	1.98	0.45
206:T7:34:DG:H1'	206:T7:35:DA:H5'	1.98	0.45
215:U7:3:DA:C2'	215:U7:4:DT:H72	2.46	0.45
215:U7:16:DT:C6	215:U7:17:DT:H72	2.51	0.45
217:U9:13:DT:C6	217:U9:14:DT:H72	2.51	0.45
221:V2:21:DA:C2'	221:V2:22:DT:H72	2.46	0.45
226:V9:22:DG:H1'	226:V9:23:DA:H5'	1.98	0.45
226:V9:32:DA:C2'	226:V9:33:DT:H72	2.46	0.45
228:VC:20:DC:H2'	228:VC:21:DT:H72	1.97	0.45
229:VD:5:DG:H1'	229:VD:6:DA:H5'	1.98	0.45
230:W3:10:DA:C2'	230:W3:11:DT:H72	2.46	0.45
230:W3:39:DG:H1'	230:W3:40:DA:H5'	1.98	0.45
231:W5:24:DG:H1'	231:W5:25:DA:H5'	1.98	0.45
235:WD:5:DG:H1'	235:WD:6:DA:H5'	1.98	0.45
1:A1:23:DG:H1'	1:A1:24:DA:H5'	1.98	0.45
2:A2:7:DG:H1'	2:A2:8:DA:H5'	1.98	0.45
3:A3:21:DA:C2'	3:A3:22:DT:H72	2.46	0.45
11:AB:184:DT:C6	11:AB:185:DT:H72	2.51	0.45
11:AB:194:DT:C6	11:AB:195:DT:H72	2.51	0.45
11:AB:221:DT:C6	11:AB:222:DT:H72	2.51	0.45
11:AB:224:DT:C6	11:AB:225:DT:H72	2.51	0.45
11:AB:362:DT:C6	11:AB:363:DT:H72	2.51	0.45
11:AB:376:DT:C6	11:AB:377:DT:H72	2.51	0.45
11:AB:382:DT:C6	11:AB:383:DT:H72	2.51	0.45
11:AB:393:DA:C2'	11:AB:394:DT:H72	2.46	0.45
11:AB:865:DC:H2'	11:AB:866:DT:H72	1.97	0.45
11:AB:940:DG:H1'	11:AB:941:DA:H5'	1.98	0.45
11:AB:972:DG:H1'	11:AB:973:DA:H5'	1.98	0.45
11:AB:1157:DT:C6	11:AB:1158:DT:H72	2.51	0.45
11:AB:1304:DT:C6	11:AB:1305:DT:H72	2.51	0.45
11:AB:1508:DT:C6	11:AB:1509:DT:H72	2.51	0.45
11:AB:1550:DT:C6	11:AB:1551:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1557:DT:C6	11:AB:1558:DT:H72	2.51	0.45
11:AB:1711:DT:C6	11:AB:1712:DT:H72	2.51	0.45
11:AB:1718:DT:C6	11:AB:1719:DT:H72	2.51	0.45
11:AB:1831:DT:C6	11:AB:1832:DT:H72	2.51	0.45
11:AB:1907:DG:H1'	11:AB:1908:DA:H5'	1.98	0.45
11:AB:1965:DT:C6	11:AB:1966:DT:H72	2.51	0.45
11:AB:2020:DT:C6	11:AB:2021:DT:H72	2.51	0.45
11:AB:2023:DT:C6	11:AB:2024:DT:H72	2.51	0.45
11:AB:2031:DG:H1'	11:AB:2032:DA:H5'	1.98	0.45
11:AB:2057:DT:C6	11:AB:5778:DT:H72	2.51	0.45
11:AB:2097:DT:C6	11:AB:2098:DT:H72	2.51	0.45
11:AB:2104:DA:C2'	11:AB:2105:DT:H72	2.46	0.45
11:AB:2130:DA:C2'	11:AB:2131:DT:H72	2.46	0.45
11:AB:2178:DG:H2''	11:AB:2179:DC:O5'	2.13	0.45
11:AB:2194:DT:C6	11:AB:2195:DT:H72	2.51	0.45
11:AB:2348:DT:C6	11:AB:2349:DT:H72	2.51	0.45
11:AB:2405:DT:C6	11:AB:2406:DT:H72	2.51	0.45
11:AB:2426:DT:C6	11:AB:2427:DT:H72	2.51	0.45
11:AB:2643:DG:H1'	11:AB:2644:DA:H5'	1.98	0.45
11:AB:2814:DT:C6	11:AB:2815:DT:H72	2.51	0.45
11:AB:2815:DT:C6	11:AB:2816:DT:H72	2.51	0.45
11:AB:2835:DT:C6	11:AB:2836:DT:H72	2.51	0.45
11:AB:2966:DA:C2'	11:AB:2967:DT:H72	2.46	0.45
11:AB:3102:DA:C2'	11:AB:3103:DT:H72	2.46	0.45
11:AB:3138:DT:C6	11:AB:3139:DT:H72	2.51	0.45
11:AB:3160:DT:C6	11:AB:3161:DT:H72	2.51	0.45
11:AB:3385:DT:C6	11:AB:3386:DT:H72	2.51	0.45
11:AB:3433:DT:C6	11:AB:3434:DT:H72	2.51	0.45
11:AB:3439:DT:C6	11:AB:3440:DT:H72	2.51	0.45
11:AB:3504:DT:C6	11:AB:3505:DT:H72	2.51	0.45
11:AB:3526:DT:C6	11:AB:3527:DT:H72	2.51	0.45
11:AB:3571:DT:C6	11:AB:3572:DT:H72	2.51	0.45
11:AB:3614:DT:C6	11:AB:3615:DT:H72	2.51	0.45
11:AB:3678:DT:C6	11:AB:4519:DT:H72	2.51	0.45
11:AB:3759:DT:C6	11:AB:3760:DT:H72	2.51	0.45
11:AB:3760:DT:C6	11:AB:3761:DT:H72	2.51	0.45
11:AB:3797:DA:C2'	11:AB:3798:DT:H72	2.46	0.45
11:AB:3844:DG:H1'	11:AB:3845:DA:H5'	1.98	0.45
11:AB:3851:DT:C6	11:AB:3852:DT:H72	2.51	0.45
11:AB:4125:DT:C6	11:AB:4126:DT:H72	2.51	0.45
11:AB:4244:DT:C6	11:AB:4245:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4274:DT:C6	11:AB:4275:DT:H72	2.51	0.45
11:AB:4349:DT:C6	11:AB:4350:DT:H72	2.51	0.45
11:AB:4424:DT:C6	11:AB:4425:DT:H72	2.51	0.45
11:AB:4425:DT:C6	11:AB:4426:DT:H72	2.51	0.45
11:AB:4676:DT:C6	11:AB:4677:DT:H72	2.51	0.45
11:AB:4694:DC:H2'	11:AB:4695:DT:H72	1.97	0.45
11:AB:4720:DT:C6	11:AB:4721:DT:H72	2.51	0.45
11:AB:4727:DT:C6	11:AB:4728:DT:H72	2.51	0.45
11:AB:4732:DG:H2''	11:AB:4733:DC:O5'	2.13	0.45
11:AB:4856:DT:C6	11:AB:4857:DT:H72	2.51	0.45
11:AB:4940:DT:C6	11:AB:4941:DT:H72	2.51	0.45
11:AB:5001:DG:H2''	11:AB:5002:DC:O5'	2.13	0.45
11:AB:5290:DT:C6	11:AB:5291:DT:H72	2.51	0.45
11:AB:5330:DT:C6	11:AB:5331:DT:H72	2.51	0.45
11:AB:5377:DT:C6	11:AB:5378:DT:H72	2.51	0.45
11:AB:5422:DA:C2'	11:AB:5423:DT:H72	2.46	0.45
11:AB:5581:DT:C6	11:AB:5582:DT:H72	2.51	0.45
11:AB:5608:DT:C6	11:AB:5609:DT:H72	2.51	0.45
11:AB:5616:DT:C6	11:AB:5617:DT:H72	2.51	0.45
11:AB:5713:DT:C6	11:AB:5714:DT:H72	2.51	0.45
11:AB:5779:DT:C6	11:AB:5780:DT:H72	2.51	0.45
11:AB:5796:DT:C6	11:AB:5797:DT:H72	2.51	0.45
11:AB:5819:DT:C6	11:AB:5820:DT:H72	2.51	0.45
11:AB:5982:DT:C6	11:AB:5983:DT:H72	2.51	0.45
11:AB:5997:DT:C6	11:AB:5998:DT:H72	2.51	0.45
11:AB:5998:DT:C6	11:AB:5999:DT:H72	2.51	0.45
11:AB:6008:DA:C2'	11:AB:6009:DT:H72	2.46	0.45
11:AB:6033:DT:C6	11:AB:6034:DT:H72	2.51	0.45
11:AB:6045:DA:C2'	11:AB:6046:DT:H72	2.46	0.45
11:AB:6184:DT:C6	11:AB:6185:DT:H72	2.51	0.45
11:AB:6312:DT:C6	11:AB:6313:DT:H72	2.51	0.45
11:AB:6373:DA:C2'	11:AB:6374:DT:H72	2.46	0.45
11:AB:6423:DT:C6	11:AB:6424:DT:H72	2.51	0.45
11:AB:6487:DT:C6	11:AB:6488:DT:H72	2.51	0.45
11:AB:6508:DT:C6	11:AB:6509:DT:H72	2.51	0.45
11:AB:6638:DT:C6	11:AB:6639:DT:H72	2.51	0.45
11:AB:6746:DG:H1'	11:AB:6747:DA:H5'	1.98	0.45
11:AB:6931:DG:H1'	11:AB:6932:DA:H5'	1.98	0.45
11:AB:7087:DT:C6	11:AB:7088:DT:H72	2.51	0.45
11:AB:7184:DT:C6	11:AB:7185:DT:H72	2.51	0.45
13:AD:19:DA:C2'	13:AD:20:DT:H72	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:B1:10:DA:C2'	14:B1:11:DT:H72	2.46	0.45
18:B5:21:DT:C6	156:O2:22:DT:H72	2.51	0.45
18:B5:35:DT:C6	18:B5:36:DT:H72	2.51	0.45
36:CD:24:DA:C2'	36:CD:25:DT:H72	2.46	0.45
42:D7:1:DT:H72	53:E7:15:DT:C6	2.51	0.45
45:DA:11:DG:H1'	45:DA:12:DA:H5'	1.98	0.45
47:DD:15:DG:H1'	47:DD:16:DA:H5'	1.98	0.45
49:E2:25:DT:C6	49:E2:26:DT:H72	2.51	0.45
53:E7:4:DA:C2'	53:E7:5:DT:H72	2.46	0.45
55:E9:11:DG:H1'	55:E9:12:DA:H5'	1.98	0.45
55:E9:18:DG:H2''	55:E9:19:DC:O5'	2.13	0.45
55:E9:29:DG:H1'	55:E9:30:DA:H5'	1.98	0.45
55:E9:32:DT:C6	55:E9:33:DT:H72	2.51	0.45
58:ED:24:DA:H5'	77:G9:19:DG:H1'	1.98	0.45
58:ED:32:DG:H1'	58:ED:33:DA:H5'	1.98	0.45
60:F2:8:DT:C6	60:F2:9:DT:H72	2.51	0.45
60:F2:27:DG:H1'	60:F2:28:DA:H5'	1.98	0.45
67:FA:23:DT:C6	67:FA:24:DT:H72	2.51	0.45
76:G8:20:DG:H1'	76:G8:21:DA:H5'	1.98	0.45
77:G9:2:DT:C6	77:G9:3:DT:H72	2.51	0.45
77:G9:10:DG:H2''	77:G9:11:DC:O5'	2.13	0.45
79:GC:5:DG:H1'	79:GC:6:DA:H5'	1.98	0.45
81:H1:6:DG:H1'	81:H1:7:DA:H5'	1.98	0.45
82:H2:10:DT:C6	82:H2:11:DT:H72	2.51	0.45
84:H5:40:DG:H1'	178:Q5:1:DA:H5'	1.98	0.45
86:H7:8:DT:C6	86:H7:9:DT:H72	2.51	0.45
88:H9:23:DG:H1'	88:H9:24:DA:H5'	1.98	0.45
93:I2:19:DG:H1'	93:I2:20:DA:H5'	1.98	0.45
95:I5:35:DT:C6	138:M5:15:DT:H72	2.51	0.45
105:J3:6:DT:C6	105:J3:7:DT:H72	2.51	0.45
106:J5:12:DG:H1'	106:J5:13:DA:H5'	1.98	0.45
109:J8:44:DG:H1'	109:J8:45:DA:H5'	1.98	0.45
114:K1:14:DT:C6	137:M3:22:DT:H72	2.51	0.45
119:K7:13:DG:H1'	119:K7:14:DA:H5'	1.98	0.45
119:K7:19:DT:H72	230:W3:14:DT:C6	2.51	0.45
119:K7:22:DG:H1'	119:K7:23:DA:H5'	1.98	0.45
119:K7:41:DT:C6	119:K7:42:DT:H72	2.51	0.45
123:KC:13:DT:C6	123:KC:14:DT:H72	2.51	0.45
124:KD:9:DT:C6	124:KD:10:DT:H72	2.51	0.45
125:L1:2:DG:H1'	125:L1:3:DA:H5'	1.98	0.45
130:L7:13:DT:C6	130:L7:14:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
132:L9:2:DA:C2'	132:L9:3:DT:H72	2.46	0.45
140:M7:10:DT:C6	206:T7:11:DT:H72	2.51	0.45
144:MC:21:DT:C6	144:MC:22:DT:H72	2.51	0.45
147:N3:14:DT:C6	147:N3:15:DT:H72	2.51	0.45
149:N6:22:DT:C6	149:N6:23:DT:H72	2.51	0.45
151:N8:11:DG:H1'	151:N8:12:DA:H5'	1.98	0.45
151:N8:12:DA:C2'	151:N8:13:DT:H72	2.46	0.45
154:NC:18:DT:H72	189:R8:21:DT:C6	2.51	0.45
154:NC:21:DG:H1'	154:NC:22:DA:H5'	1.98	0.45
156:O2:3:DA:C2'	156:O2:4:DT:H72	2.46	0.45
158:O5:22:DA:C2'	158:O5:23:DT:H72	2.46	0.45
159:O6:1:DT:H72	169:P6:13:DT:C6	2.51	0.45
161:O8:41:DA:C2'	161:O8:42:DT:H72	2.46	0.45
162:O9:13:DT:C6	191:RA:28:DT:H72	2.51	0.45
165:OD:11:DG:H1'	165:OD:12:DA:H5'	1.98	0.45
165:OD:51:DG:H1'	165:OD:52:DA:H5'	1.98	0.45
170:P7:18:DA:C2'	170:P7:19:DT:H72	2.46	0.45
171:P8:9:DT:C6	171:P8:10:DT:H72	2.51	0.45
172:P9:13:DT:C6	172:P9:14:DT:H72	2.51	0.45
173:PA:4:DG:H1'	173:PA:5:DA:H5'	1.98	0.45
173:PA:16:DT:C6	173:PA:17:DT:H72	2.51	0.45
177:Q3:16:DA:C2'	177:Q3:17:DT:H72	2.46	0.45
179:Q7:10:DT:C6	179:Q7:11:DT:H72	2.51	0.45
181:Q9:16:DG:H2''	181:Q9:17:DC:O5'	2.13	0.45
184:QD:30:DA:C2'	184:QD:31:DT:H72	2.46	0.45
190:R9:35:DA:C2'	190:R9:36:DT:H72	2.46	0.45
192:RC:17:DT:C6	192:RC:18:DT:H72	2.51	0.45
198:S8:9:DT:C6	198:S8:10:DT:H72	2.51	0.45
198:S8:10:DT:C6	198:S8:11:DT:H72	2.51	0.45
198:S8:40:DT:C6	198:S8:41:DT:H72	2.51	0.45
202:SD:12:DC:H2'	202:SD:13:DT:H72	1.97	0.45
206:T7:5:DG:H1'	206:T7:6:DA:H5'	1.98	0.45
212:U2:22:DT:C6	212:U2:23:DT:H72	2.51	0.45
214:U5:12:DA:C2'	214:U5:13:DT:H72	2.46	0.45
216:U8:11:DG:H1'	216:U8:12:DA:H5'	1.98	0.45
220:UD:11:DT:C6	220:UD:12:DT:H72	2.51	0.45
230:W3:44:DA:C2'	230:W3:45:DT:H72	2.46	0.45
231:W5:25:DA:C2'	231:W5:26:DT:H72	2.46	0.45
233:W8:6:DT:C6	233:W8:7:DT:H72	2.51	0.45
236:X5:14:DA:C2'	236:X5:15:DT:H72	2.46	0.45
238:X9:7:DG:H1'	238:X9:8:DA:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:17:DA:C2'	1:A1:18:DT:H72	2.46	0.45
3:A3:16:DT:C6	39:D3:5:DT:H72	2.51	0.45
5:A5:9:DG:H1'	5:A5:10:DA:H5'	1.98	0.45
11:AB:270:DG:H1'	11:AB:271:DA:H5'	1.98	0.45
11:AB:388:DT:C6	11:AB:389:DT:H72	2.51	0.45
11:AB:652:DT:C6	11:AB:653:DT:H72	2.51	0.45
11:AB:975:DT:C6	11:AB:976:DT:H72	2.51	0.45
11:AB:1020:DG:H1'	11:AB:1021:DA:H5'	1.98	0.45
11:AB:1068:DG:H1'	11:AB:1069:DA:H5'	1.98	0.45
11:AB:1303:DT:C6	11:AB:1304:DT:H72	2.51	0.45
11:AB:1725:DT:C6	11:AB:1726:DT:H72	2.51	0.45
11:AB:1816:DT:C6	11:AB:1817:DT:H72	2.51	0.45
11:AB:1822:DT:C6	11:AB:1823:DT:H72	2.51	0.45
11:AB:2067:DG:H1'	11:AB:2068:DA:H5'	1.98	0.45
11:AB:2220:DA:C2'	11:AB:2221:DT:H72	2.46	0.45
11:AB:2339:DG:H2''	11:AB:2340:DC:O5'	2.13	0.45
11:AB:2411:DT:C6	11:AB:2412:DT:H72	2.51	0.45
11:AB:2419:DT:C6	11:AB:2420:DT:H72	2.51	0.45
11:AB:2422:DA:C2'	11:AB:2423:DT:H72	2.46	0.45
11:AB:2552:DA:C2'	11:AB:2553:DT:H72	2.46	0.45
11:AB:2681:DT:C6	11:AB:2682:DT:H72	2.51	0.45
11:AB:2804:DA:C2'	11:AB:2805:DT:H72	2.46	0.45
11:AB:2929:DA:C2'	11:AB:2930:DT:H72	2.46	0.45
11:AB:3005:DT:C6	11:AB:3006:DT:H72	2.51	0.45
11:AB:3090:DT:C6	11:AB:3091:DT:H72	2.51	0.45
11:AB:3128:DA:C2'	11:AB:3129:DT:H72	2.46	0.45
11:AB:3287:DT:C6	11:AB:3288:DT:H72	2.51	0.45
11:AB:3746:DT:C6	11:AB:3747:DT:H72	2.51	0.45
11:AB:3767:DT:C6	11:AB:3768:DT:H72	2.51	0.45
11:AB:3788:DT:C6	11:AB:3789:DT:H72	2.51	0.45
11:AB:3907:DT:C6	11:AB:3908:DT:H72	2.51	0.45
11:AB:3946:DG:H1'	11:AB:3947:DA:H5'	1.98	0.45
11:AB:3994:DT:C6	11:AB:3995:DT:H72	2.51	0.45
11:AB:4018:DG:H1'	11:AB:4019:DA:H5'	1.97	0.45
11:AB:4155:DC:H2'	11:AB:4156:DT:H72	1.97	0.45
11:AB:4223:DT:C6	11:AB:4224:DT:H72	2.51	0.45
11:AB:4235:DT:C6	11:AB:4236:DT:H72	2.51	0.45
11:AB:4422:DG:H1'	11:AB:4423:DA:H5'	1.98	0.45
11:AB:4520:DG:H1'	11:AB:4521:DA:H5'	1.98	0.45
11:AB:4697:DA:C2'	11:AB:4698:DT:H72	2.46	0.45
11:AB:4768:DT:C6	11:AB:4769:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4804:DT:C6	11:AB:4805:DT:H72	2.51	0.45
11:AB:5022:DT:C6	11:AB:5023:DT:H72	2.51	0.45
11:AB:5231:DG:H1'	11:AB:5232:DA:H5'	1.98	0.45
11:AB:5273:DG:H1'	11:AB:5274:DA:H5'	1.97	0.45
11:AB:5385:DT:C6	11:AB:5386:DT:H72	2.51	0.45
11:AB:5573:DA:C2'	11:AB:5574:DT:H72	2.46	0.45
11:AB:5609:DT:C6	11:AB:5610:DT:H72	2.51	0.45
11:AB:5780:DT:C6	11:AB:5781:DT:H72	2.51	0.45
11:AB:6331:DG:H1'	11:AB:6332:DA:H5'	1.97	0.45
11:AB:6574:DT:C6	11:AB:6575:DT:H72	2.51	0.45
11:AB:6582:DT:C6	11:AB:6583:DT:H72	2.51	0.45
11:AB:6598:DT:C6	11:AB:6599:DT:H72	2.51	0.45
11:AB:6673:DT:C6	11:AB:6674:DT:H72	2.51	0.45
11:AB:6758:DT:C6	11:AB:6759:DT:H72	2.51	0.45
11:AB:6946:DT:C6	11:AB:6947:DT:H72	2.51	0.45
11:AB:7048:DT:C6	11:AB:7049:DT:H72	2.51	0.45
11:AB:7183:DT:C6	11:AB:7184:DT:H72	2.51	0.45
11:AB:7243:DG:H1'	11:AB:7244:DA:H5'	1.98	0.45
16:B3:6:DG:H1'	16:B3:7:DA:H5'	1.98	0.45
29:C5:3:DG:H1'	29:C5:4:DA:H5'	1.98	0.45
34:CA:2:DA:C2'	34:CA:3:DT:H72	2.46	0.45
35:CC:7:DG:H1'	35:CC:8:DA:H5'	1.98	0.45
39:D3:21:DA:C2'	39:D3:22:DT:H72	2.46	0.45
39:D3:29:DG:H1'	39:D3:30:DA:H5'	1.98	0.45
40:D5:15:DT:C6	40:D5:16:DT:H72	2.51	0.45
43:D8:37:DG:H1'	43:D8:38:DA:H5'	1.98	0.45
49:E2:7:DG:H1'	49:E2:8:DA:H5'	1.98	0.45
49:E2:11:DT:C6	49:E2:12:DT:H72	2.51	0.45
52:E6:9:DA:C2'	52:E6:10:DT:H72	2.46	0.45
53:E7:13:DG:H1'	53:E7:14:DA:H5'	1.98	0.45
54:E8:17:DT:H72	109:J8:21:DT:C6	2.51	0.45
58:ED:40:DA:C2'	58:ED:41:DT:H72	2.46	0.45
59:F1:2:DG:H1'	59:F1:3:DA:H5'	1.98	0.45
60:F2:18:DT:C6	230:W3:22:DT:H72	2.51	0.45
60:F2:30:DT:C6	60:F2:31:DT:H72	2.51	0.45
62:F5:10:DT:C6	93:I2:8:DT:H72	2.51	0.45
70:G1:12:DA:C2'	70:G1:13:DT:H72	2.46	0.45
71:G2:10:DG:H1'	71:G2:11:DA:H5'	1.98	0.45
72:G3:1:DT:H72	83:H3:7:DT:C6	2.51	0.45
86:H7:20:DG:H1'	130:L7:8:DA:H5'	1.98	0.45
87:H8:19:DG:H1'	87:H8:20:DA:H5'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
88:H9:18:DA:H5'	227:VA:11:DG:H1'	1.98	0.45
93:I2:10:DA:C2'	93:I2:11:DT:H72	2.46	0.45
97:I7:8:DG:H1'	97:I7:9:DA:H5'	1.98	0.45
104:J2:19:DT:C6	104:J2:20:DT:H72	2.51	0.45
105:J3:28:DT:H72	235:WD:13:DT:C6	2.51	0.45
107:J6:27:DC:H2'	107:J6:28:DT:H72	1.97	0.45
110:J9:10:DG:H1'	110:J9:11:DA:H5'	1.98	0.45
113:JD:26:DG:H1'	113:JD:27:DA:H5'	1.98	0.45
115:K2:5:DA:C2'	115:K2:6:DT:H72	2.46	0.45
117:K5:37:DT:C6	117:K5:38:DT:H72	2.51	0.45
118:K6:6:DT:C6	118:K6:7:DT:H72	2.51	0.45
119:K7:9:DG:H1'	119:K7:10:DA:H5'	1.98	0.45
122:KA:5:DG:H2''	122:KA:6:DC:O5'	2.13	0.45
122:KA:7:DT:C6	209:TA:19:DT:H72	2.51	0.45
123:KC:14:DT:C6	123:KC:15:DT:H72	2.51	0.45
125:L1:30:DT:C6	125:L1:31:DT:H72	2.51	0.45
133:LA:8:DT:C6	133:LA:9:DT:H72	2.51	0.45
144:MC:14:DT:C6	144:MC:15:DT:H72	2.51	0.45
146:N2:17:DA:C2'	146:N2:18:DT:H72	2.46	0.45
148:N5:8:DT:C6	148:N5:9:DT:H72	2.51	0.45
148:N5:32:DA:C2'	148:N5:33:DT:H72	2.46	0.45
156:O2:54:DG:H1'	156:O2:55:DA:H5'	1.98	0.45
163:OA:4:DG:H1'	163:OA:5:DA:H5'	1.98	0.45
164:OC:14:DG:H2''	164:OC:15:DC:O5'	2.13	0.45
167:P3:26:DA:C2'	167:P3:27:DT:H72	2.46	0.45
168:P5:12:DT:C6	168:P5:13:DT:H72	2.51	0.45
172:P9:23:DT:C6	172:P9:24:DT:H72	2.51	0.45
177:Q3:11:DT:C6	177:Q3:12:DT:H72	2.51	0.45
185:R2:1:DT:H72	198:S8:31:DT:C6	2.51	0.45
191:RA:18:DT:C6	191:RA:19:DT:H72	2.51	0.45
199:S9:6:DG:H1'	199:S9:7:DA:H5'	1.98	0.45
199:S9:18:DG:H1'	199:S9:19:DA:H5'	1.97	0.45
200:SA:23:DT:C6	200:SA:24:DT:H72	2.51	0.45
201:SC:2:DA:C2'	201:SC:3:DT:H72	2.46	0.45
203:T2:18:DT:C6	203:T2:19:DT:H72	2.51	0.45
206:T7:15:DG:H1'	206:T7:16:DA:H5'	1.98	0.45
211:TD:23:DG:H1'	211:TD:24:DA:H5'	1.98	0.45
221:V2:16:DT:C6	221:V2:17:DT:H72	2.51	0.45
232:W7:10:DT:C6	232:W7:11:DT:H72	2.51	0.45
235:WD:18:DA:C2'	235:WD:19:DT:H72	2.46	0.45
1:A1:42:DG:H1'	1:A1:43:DA:H5'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:27:DT:C6	2:A2:28:DT:H72	2.51	0.45
6:A6:19:DT:C6	6:A6:20:DT:H72	2.51	0.45
8:A8:11:DA:C2'	8:A8:12:DT:H72	2.46	0.45
10:AA:16:DT:C6	22:B9:29:DT:H72	2.51	0.45
11:AB:102:DA:C2'	11:AB:103:DT:H72	2.46	0.45
11:AB:121:DT:C6	11:AB:122:DT:H72	2.51	0.45
11:AB:130:DT:C6	11:AB:131:DT:H72	2.51	0.45
11:AB:131:DT:C6	11:AB:132:DT:H72	2.51	0.45
11:AB:248:DT:C6	11:AB:249:DT:H72	2.51	0.45
11:AB:776:DT:C6	11:AB:777:DT:H72	2.51	0.45
11:AB:917:DT:C6	11:AB:918:DT:H72	2.51	0.45
11:AB:936:DG:H1'	11:AB:937:DA:H5'	1.98	0.45
11:AB:1030:DA:C2'	11:AB:1031:DT:H72	2.46	0.45
11:AB:1106:DT:C6	11:AB:1107:DT:H72	2.51	0.45
11:AB:1309:DT:C6	11:AB:1310:DT:H72	2.51	0.45
11:AB:1363:DT:C6	11:AB:1364:DT:H72	2.51	0.45
11:AB:1434:DT:C6	11:AB:1435:DT:H72	2.51	0.45
11:AB:1486:DT:C6	11:AB:1487:DT:H72	2.51	0.45
11:AB:1584:DT:H72	11:AB:6121:DT:C6	2.51	0.45
11:AB:1681:DT:C6	11:AB:1682:DT:H72	2.51	0.45
11:AB:1836:DG:H1'	11:AB:1837:DA:H5'	1.98	0.45
11:AB:1843:DT:C6	11:AB:1844:DT:H72	2.51	0.45
11:AB:2137:DT:C6	11:AB:2138:DT:H72	2.51	0.45
11:AB:2201:DT:C6	11:AB:2202:DT:H72	2.51	0.45
11:AB:2407:DA:H2'	11:AB:2408:DT:H72	2.00	0.45
11:AB:2438:DT:C6	11:AB:2439:DT:H72	2.51	0.45
11:AB:2518:DT:C6	11:AB:2519:DT:H72	2.51	0.45
11:AB:2560:DT:C6	11:AB:2561:DT:H72	2.51	0.45
11:AB:2715:DG:H1'	11:AB:2716:DA:H5'	1.97	0.45
11:AB:2786:DT:C6	11:AB:2787:DT:H72	2.51	0.45
11:AB:2820:DT:C6	11:AB:2821:DT:H72	2.51	0.45
11:AB:2974:DG:H1'	11:AB:2975:DA:H5'	1.98	0.45
11:AB:3193:DT:C2'	11:AB:3194:DT:H72	2.47	0.45
11:AB:3241:DT:C6	11:AB:3242:DT:H72	2.51	0.45
11:AB:3329:DT:C6	11:AB:3330:DT:H72	2.51	0.45
11:AB:3362:DT:C6	11:AB:3363:DT:H72	2.51	0.45
11:AB:3426:DT:C6	11:AB:3427:DT:H72	2.51	0.45
11:AB:3716:DT:C6	11:AB:3717:DT:H72	2.51	0.45
11:AB:3886:DT:C6	11:AB:3887:DT:H72	2.51	0.45
11:AB:3905:DT:C6	11:AB:3906:DT:H72	2.51	0.45
11:AB:4156:DT:C6	11:AB:4157:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4611:DG:H1'	11:AB:4612:DA:H5'	1.98	0.45
11:AB:4741:DT:C6	11:AB:4742:DT:H72	2.51	0.45
11:AB:5031:DT:C6	11:AB:5032:DT:H72	2.51	0.45
11:AB:5383:DT:C6	11:AB:5384:DT:H72	2.51	0.45
11:AB:5684:DT:C6	11:AB:5685:DT:H72	2.51	0.45
11:AB:5774:DT:C6	11:AB:5775:DT:H72	2.51	0.45
11:AB:5815:DG:H1'	11:AB:5816:DA:H5'	1.98	0.45
11:AB:5987:DG:H1'	11:AB:5988:DA:H5'	1.98	0.45
11:AB:6149:DT:C6	11:AB:6150:DT:H72	2.51	0.45
11:AB:6206:DT:C6	11:AB:6207:DT:H72	2.51	0.45
11:AB:6512:DT:C6	11:AB:6513:DT:H72	2.51	0.45
11:AB:6700:DT:C6	11:AB:6701:DT:H72	2.51	0.45
11:AB:6889:DT:C6	11:AB:6890:DT:H72	2.51	0.45
11:AB:6994:DT:C6	11:AB:6995:DT:H72	2.51	0.45
21:B8:27:DT:C2'	149:N6:1:DT:H72	2.47	0.45
22:B9:9:DG:H1'	22:B9:10:DA:H5'	1.97	0.45
23:BA:25:DT:C6	23:BA:26:DT:H72	2.51	0.45
23:BA:30:DG:H1'	23:BA:31:DA:H5'	1.98	0.45
29:C5:36:DA:H2'	29:C5:37:DT:H72	1.99	0.45
32:C8:15:DG:H1'	32:C8:16:DA:H5'	1.98	0.45
33:C9:6:DG:H1'	33:C9:7:DA:H5'	1.98	0.45
39:D3:1:DT:H72	204:T3:45:DT:C2'	2.47	0.45
40:D5:6:DG:H1'	40:D5:7:DA:H5'	1.98	0.45
49:E2:32:DG:H1'	49:E2:33:DA:H5'	1.97	0.45
50:E3:7:DT:C6	50:E3:8:DT:H72	2.51	0.45
83:H3:30:DG:H1'	83:H3:31:DA:H5'	1.98	0.45
83:H3:42:DG:H1'	184:QD:1:DA:H5'	1.98	0.45
114:K1:40:DT:C6	114:K1:41:DT:H72	2.51	0.45
115:K2:25:DA:H2'	115:K2:26:DT:H72	1.99	0.45
126:L2:36:DG:H1'	126:L2:37:DA:H5'	1.98	0.45
142:M9:11:DA:H2'	142:M9:12:DT:H72	1.99	0.45
142:M9:23:DT:C2'	218:UA:1:DT:H72	2.47	0.45
149:N6:9:DT:C6	149:N6:10:DT:H72	2.51	0.45
152:N9:20:DT:C6	152:N9:21:DT:H72	2.51	0.45
155:ND:7:DG:H1'	155:ND:8:DA:H5'	1.98	0.45
156:O2:26:DG:H1'	156:O2:27:DA:H5'	1.98	0.45
156:O2:40:DG:H1'	156:O2:41:DA:H5'	1.98	0.45
160:O7:16:DG:H1'	160:O7:17:DA:H5'	1.98	0.45
161:O8:48:DT:C6	161:O8:49:DT:H72	2.51	0.45
166:P2:14:DT:C6	166:P2:15:DT:H72	2.51	0.45
173:PA:23:DT:C6	173:PA:24:DT:H72	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
173:PA:24:DT:C6	173:PA:25:DT:H72	2.51	0.45
173:PA:38:DG:H1'	181:Q9:1:DA:H5'	1.98	0.45
176:Q2:16:DT:C6	176:Q2:17:DT:H72	2.51	0.45
177:Q3:22:DG:H1'	177:Q3:23:DA:H5'	1.98	0.45
178:Q5:9:DG:H1'	178:Q5:10:DA:H5'	1.98	0.45
184:QD:31:DT:C2'	190:R9:1:DT:H72	2.47	0.45
190:R9:13:DG:H1'	190:R9:14:DA:H5'	1.98	0.45
195:S3:24:DG:H1'	195:S3:25:DA:H5'	1.98	0.45
196:S5:9:DG:H1'	196:S5:10:DA:H5'	1.98	0.45
196:S5:30:DT:C6	196:S5:31:DT:H72	2.51	0.45
214:U5:19:DT:C6	214:U5:20:DT:H72	2.51	0.45
233:W8:21:DG:H1'	233:W8:22:DA:H5'	1.98	0.45
238:X9:20:DG:H1'	238:X9:21:DA:H5'	1.98	0.45
11:AB:142:DT:C6	11:AB:143:DT:H72	2.51	0.44
11:AB:238:DA:H2'	11:AB:239:DT:H72	2.00	0.44
11:AB:338:DT:C6	11:AB:339:DT:H72	2.51	0.44
11:AB:435:DG:H1'	11:AB:436:DA:H5'	1.98	0.44
11:AB:645:DT:C2'	11:AB:646:DT:H72	2.48	0.44
11:AB:681:DG:H1'	11:AB:682:DA:H5'	1.98	0.44
11:AB:756:DT:C6	11:AB:757:DT:H72	2.51	0.44
11:AB:798:DT:C6	11:AB:799:DT:H72	2.51	0.44
11:AB:875:DT:C6	11:AB:876:DT:H72	2.51	0.44
11:AB:978:DG:H1'	11:AB:979:DA:H5'	1.98	0.44
11:AB:1272:DT:C6	11:AB:1273:DT:H72	2.51	0.44
11:AB:1351:DT:C6	11:AB:1352:DT:H72	2.51	0.44
11:AB:1476:DT:C6	11:AB:1477:DT:H72	2.51	0.44
11:AB:1584:DT:C6	11:AB:1585:DT:H72	2.51	0.44
11:AB:1604:DG:H1'	11:AB:1605:DA:H5'	1.98	0.44
11:AB:1778:DT:C6	11:AB:1779:DT:H72	2.51	0.44
11:AB:2120:DA:H2'	11:AB:2121:DT:H72	2.00	0.44
11:AB:2158:DT:C6	11:AB:2159:DT:H72	2.51	0.44
11:AB:2249:DT:C6	11:AB:2250:DT:H72	2.51	0.44
11:AB:2302:DT:C6	11:AB:2303:DT:H72	2.51	0.44
11:AB:2409:DG:H1'	11:AB:2410:DA:H5'	1.98	0.44
11:AB:2428:DA:H2'	11:AB:2429:DT:H72	2.00	0.44
11:AB:2506:DA:H2'	11:AB:2507:DT:H72	2.00	0.44
11:AB:2559:DT:C6	11:AB:2560:DT:H72	2.51	0.44
11:AB:3088:DG:H1'	11:AB:3089:DA:H5'	1.98	0.44
11:AB:3209:DT:C6	11:AB:3210:DT:H72	2.51	0.44
11:AB:3308:DT:C6	11:AB:3309:DT:H72	2.51	0.44
11:AB:3376:DG:H1'	11:AB:3377:DA:H5'	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3404:DT:C6	11:AB:3405:DT:H72	2.51	0.44
11:AB:3479:DT:C2'	11:AB:3480:DT:H72	2.47	0.44
11:AB:3531:DT:H72	11:AB:4790:DA:C2'	2.46	0.44
11:AB:3549:DT:C6	11:AB:3550:DT:H72	2.51	0.44
11:AB:3576:DG:H1'	11:AB:3577:DA:H5'	1.98	0.44
11:AB:3633:DG:H1'	11:AB:3634:DA:H5'	1.98	0.44
11:AB:3885:DT:C6	11:AB:3886:DT:H72	2.51	0.44
11:AB:4079:DT:C6	11:AB:4080:DT:H72	2.51	0.44
11:AB:4165:DT:C6	11:AB:4166:DT:H72	2.51	0.44
11:AB:4326:DT:C6	11:AB:4327:DT:H72	2.51	0.44
11:AB:4408:DT:C6	11:AB:4409:DT:H72	2.51	0.44
11:AB:4457:DT:C6	11:AB:4458:DT:H72	2.51	0.44
11:AB:4760:DG:H1'	11:AB:4761:DA:H5'	1.98	0.44
11:AB:5030:DT:C6	11:AB:5031:DT:H72	2.51	0.44
11:AB:5328:DT:C6	11:AB:5329:DT:H72	2.51	0.44
11:AB:5329:DT:C6	11:AB:5330:DT:H72	2.51	0.44
11:AB:5452:DA:H2'	11:AB:5453:DT:H72	2.00	0.44
11:AB:5501:DT:C6	11:AB:5502:DT:H72	2.51	0.44
11:AB:5552:DG:H1'	11:AB:5553:DA:H5'	1.98	0.44
11:AB:5627:DA:H2'	11:AB:5628:DT:H72	2.00	0.44
11:AB:5806:DG:H1'	11:AB:5807:DA:H5'	1.98	0.44
11:AB:5834:DT:C6	11:AB:5835:DT:H72	2.51	0.44
11:AB:5843:DT:C6	11:AB:5844:DT:H72	2.51	0.44
11:AB:5855:DT:C6	11:AB:5856:DT:H72	2.51	0.44
11:AB:5899:DG:H1'	11:AB:5900:DA:H5'	1.98	0.44
11:AB:6200:DA:C2'	11:AB:6201:DT:H72	2.46	0.44
11:AB:6205:DT:C6	11:AB:6206:DT:H72	2.51	0.44
11:AB:6274:DT:C6	11:AB:6275:DT:H72	2.51	0.44
11:AB:6310:DG:H1'	11:AB:6311:DA:H5'	1.98	0.44
11:AB:6316:DA:H2'	11:AB:6317:DT:H72	2.00	0.44
11:AB:6472:DA:C2'	11:AB:6473:DT:H72	2.46	0.44
11:AB:6757:DT:C6	11:AB:6758:DT:H72	2.51	0.44
11:AB:6967:DA:C2'	11:AB:6968:DT:H72	2.46	0.44
11:AB:6993:DT:C6	11:AB:6994:DT:H72	2.51	0.44
11:AB:7028:DG:H1'	11:AB:7029:DA:H5'	1.98	0.44
11:AB:7103:DT:C6	11:AB:7104:DT:H72	2.51	0.44
11:AB:7133:DT:C6	11:AB:7134:DT:H72	2.51	0.44
12:AC:5:DG:H1'	12:AC:6:DA:H5'	1.98	0.44
13:AD:37:DT:C6	47:DD:28:DT:H72	2.51	0.44
19:B6:23:DT:C6	19:B6:24:DT:H72	2.51	0.44
30:C6:15:DT:H72	43:D8:42:DT:C6	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CA:1:DT:H72	228:VC:21:DT:C6	2.51	0.44
39:D3:12:DT:H72	202:SD:13:DT:C6	2.51	0.44
40:D5:11:DA:H2'	40:D5:12:DT:H72	2.00	0.44
42:D7:5:DT:C6	42:D7:6:DT:H72	2.51	0.44
55:E9:31:DA:H2'	55:E9:32:DT:H72	2.00	0.44
55:E9:36:DT:C6	55:E9:37:DT:H72	2.51	0.44
58:ED:34:DA:H2'	58:ED:35:DT:H72	2.00	0.44
61:F3:17:DG:H1'	61:F3:18:DA:H5'	1.98	0.44
62:F5:8:DT:C6	62:F5:9:DT:H72	2.51	0.44
64:F7:27:DT:C6	64:F7:28:DT:H72	2.51	0.44
73:G5:9:DA:H2'	73:G5:10:DT:H72	2.00	0.44
74:G6:19:DT:C6	74:G6:20:DT:H72	2.51	0.44
84:H5:9:DG:H1'	84:H5:10:DA:H5'	1.98	0.44
94:I3:25:DT:H72	107:J6:28:DT:C6	2.51	0.44
94:I3:53:DT:H72	115:K2:23:DT:C6	2.51	0.44
98:I8:5:DT:C6	98:I8:6:DT:H72	2.51	0.44
99:I9:27:DG:H1'	99:I9:28:DA:H5'	1.98	0.44
102:ID:14:DT:C6	102:ID:15:DT:H72	2.51	0.44
102:ID:15:DT:C6	102:ID:16:DT:H72	2.51	0.44
107:J6:30:DA:H2'	107:J6:31:DT:H72	2.00	0.44
108:J7:3:DT:C6	108:J7:4:DT:H72	2.51	0.44
109:J8:23:DT:C6	109:J8:24:DT:H72	2.51	0.44
112:JC:16:DA:H2'	112:JC:17:DT:H72	2.00	0.44
122:KA:37:DT:C6	122:KA:38:DT:H72	2.51	0.44
122:KA:49:DT:C6	122:KA:50:DT:H72	2.51	0.44
125:L1:23:DT:C6	125:L1:24:DT:H72	2.51	0.44
126:L2:9:DT:C6	126:L2:10:DT:H72	2.51	0.44
126:L2:22:DT:C6	126:L2:23:DT:H72	2.51	0.44
129:L6:9:DT:C6	129:L6:10:DT:H72	2.51	0.44
130:L7:23:DA:H2'	130:L7:24:DT:H72	2.00	0.44
136:M2:2:DT:C6	136:M2:3:DT:H72	2.51	0.44
150:N7:3:DG:H1'	150:N7:4:DA:H5'	1.98	0.44
152:N9:5:DT:C6	152:N9:6:DT:H72	2.51	0.44
156:O2:1:DT:H72	166:P2:16:DT:C6	2.51	0.44
157:O3:12:DG:H1'	157:O3:13:DA:H5'	1.98	0.44
164:OC:18:DT:C6	164:OC:19:DT:H72	2.51	0.44
166:P2:18:DT:C6	166:P2:19:DT:H72	2.51	0.44
172:P9:11:DT:C6	172:P9:12:DT:H72	2.51	0.44
172:P9:12:DT:C6	172:P9:13:DT:H72	2.51	0.44
177:Q3:24:DA:C2'	177:Q3:25:DT:H72	2.46	0.44
181:Q9:20:DG:H1'	181:Q9:21:DA:H5'	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
181:Q9:34:DT:C6	181:Q9:35:DT:H72	2.51	0.44
181:Q9:35:DT:C6	181:Q9:36:DT:H72	2.51	0.44
187:R5:37:DG:H1'	187:R5:38:DA:H5'	1.98	0.44
220:UD:7:DG:H1'	220:UD:8:DA:H5'	1.98	0.44
237:X7:9:DA:H2'	237:X7:10:DT:H72	2.00	0.44
1:A1:37:DA:H2'	1:A1:38:DT:H72	2.00	0.44
3:A3:14:DG:H1'	3:A3:15:DA:H5'	1.98	0.44
4:A4:19:DA:H2'	4:A4:20:DT:H72	2.00	0.44
7:A7:24:DA:C2'	7:A7:25:DT:H72	2.46	0.44
11:AB:247:DA:H2'	11:AB:248:DT:H72	2.00	0.44
11:AB:431:DT:C2'	11:AB:432:DT:H72	2.48	0.44
11:AB:784:DT:C2'	11:AB:785:DT:H72	2.48	0.44
11:AB:982:DA:C2'	11:AB:983:DT:H72	2.46	0.44
11:AB:1308:DA:H2'	11:AB:1309:DT:H72	2.00	0.44
11:AB:1309:DT:C2'	11:AB:1310:DT:H72	2.48	0.44
11:AB:1472:DT:C2'	11:AB:1473:DT:H72	2.48	0.44
11:AB:2128:DT:C6	11:AB:2129:DT:H72	2.51	0.44
11:AB:2306:DA:C2'	11:AB:2307:DT:H72	2.46	0.44
11:AB:2517:DT:C2'	11:AB:2518:DT:H72	2.48	0.44
11:AB:2530:DT:C6	11:AB:2531:DT:H72	2.51	0.44
11:AB:2759:DA:C2'	11:AB:2760:DT:H72	2.46	0.44
11:AB:2831:DT:C2'	11:AB:2832:DT:H72	2.48	0.44
11:AB:3014:DT:C2'	11:AB:3015:DT:H72	2.48	0.44
11:AB:3083:DA:C2'	11:AB:3084:DT:H72	2.46	0.44
11:AB:3176:DA:H2'	11:AB:3177:DT:H72	2.00	0.44
11:AB:3326:DA:H2'	11:AB:3327:DT:H72	2.00	0.44
11:AB:3438:DA:H2'	11:AB:3439:DT:H72	2.00	0.44
11:AB:3440:DT:C2'	11:AB:3441:DT:H72	2.48	0.44
11:AB:3550:DT:C6	11:AB:3551:DT:H72	2.51	0.44
11:AB:3570:DA:H2'	11:AB:3571:DT:H72	2.00	0.44
11:AB:3598:DT:C6	11:AB:3599:DT:H72	2.51	0.44
11:AB:3725:DT:C6	11:AB:3726:DT:H72	2.51	0.44
11:AB:3785:DA:H2'	11:AB:3786:DT:H72	2.00	0.44
11:AB:3906:DT:C2'	11:AB:3907:DT:H72	2.48	0.44
11:AB:3961:DT:C6	11:AB:3962:DT:H72	2.51	0.44
11:AB:4157:DT:C6	11:AB:4158:DT:H72	2.51	0.44
11:AB:4235:DT:C2'	11:AB:4236:DT:H72	2.48	0.44
11:AB:4236:DT:C2'	11:AB:4237:DT:H72	2.48	0.44
11:AB:4412:DA:C2'	11:AB:4413:DT:H72	2.46	0.44
11:AB:4458:DT:C6	11:AB:4459:DT:H72	2.51	0.44
11:AB:4767:DA:H2'	11:AB:4768:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4803:DA:H2'	11:AB:4804:DT:H72	2.00	0.44
11:AB:5022:DT:C2'	11:AB:5023:DT:H72	2.48	0.44
11:AB:5163:DT:C2'	11:AB:5164:DT:H72	2.48	0.44
11:AB:5223:DT:C2'	11:AB:5224:DT:H72	2.48	0.44
11:AB:5265:DT:C6	11:AB:5266:DT:H72	2.51	0.44
11:AB:5341:DT:C6	11:AB:5342:DT:H72	2.51	0.44
11:AB:5384:DT:C2'	11:AB:5385:DT:H72	2.48	0.44
11:AB:5394:DT:C2'	11:AB:5395:DT:H72	2.48	0.44
11:AB:5443:DT:C2'	11:AB:5444:DT:H72	2.48	0.44
11:AB:5613:DA:H2'	11:AB:5614:DT:H72	2.00	0.44
11:AB:5766:DT:C6	11:AB:5767:DT:H72	2.51	0.44
11:AB:5791:DT:C2'	11:AB:5792:DT:H72	2.48	0.44
11:AB:5856:DT:C6	11:AB:5857:DT:H72	2.51	0.44
11:AB:6197:DT:C6	11:AB:6198:DT:H72	2.51	0.44
11:AB:6258:DT:C2'	11:AB:6259:DT:H72	2.48	0.44
11:AB:6418:DT:C2'	11:AB:6419:DT:H72	2.48	0.44
11:AB:6501:DA:H2'	11:AB:6502:DT:H72	2.00	0.44
11:AB:6524:DT:C6	11:AB:6525:DT:H72	2.51	0.44
11:AB:6600:DT:C2'	11:AB:6601:DT:H72	2.48	0.44
11:AB:6679:DT:C6	11:AB:6680:DT:H72	2.51	0.44
11:AB:6718:DT:C2'	11:AB:6719:DT:H72	2.48	0.44
11:AB:7104:DT:C6	11:AB:7105:DT:H72	2.51	0.44
13:AD:39:DT:C2'	13:AD:40:DT:H72	2.48	0.44
16:B3:8:DT:C2'	16:B3:9:DT:H72	2.48	0.44
21:B8:22:DT:C6	139:M6:15:DT:H72	2.51	0.44
23:BA:6:DT:C6	23:BA:7:DT:H72	2.51	0.44
32:C8:12:DT:C2'	32:C8:13:DT:H72	2.48	0.44
54:E8:24:DT:C6	54:E8:25:DT:H72	2.51	0.44
54:E8:32:DT:C2'	54:E8:33:DT:H72	2.48	0.44
55:E9:8:DA:H2'	55:E9:9:DT:H72	2.00	0.44
58:ED:25:DA:H2'	58:ED:26:DT:H72	2.00	0.44
60:F2:15:DA:H2'	60:F2:16:DT:H72	2.00	0.44
62:F5:9:DT:C2'	62:F5:10:DT:H72	2.48	0.44
62:F5:35:DA:H2'	62:F5:36:DT:H72	2.00	0.44
74:G6:27:DA:H2'	74:G6:28:DT:H72	2.00	0.44
81:H1:21:DT:C6	81:H1:22:DT:H72	2.51	0.44
83:H3:24:DG:H1'	83:H3:25:DA:H5'	1.98	0.44
84:H5:1:DA:H5'	128:L5:23:DG:H1'	1.98	0.44
92:I1:6:DA:C2'	92:I1:7:DT:H72	2.46	0.44
94:I3:53:DT:C6	94:I3:54:DT:H72	2.51	0.44
96:I6:7:DT:C6	96:I6:8:DT:H72	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
105:J3:21:DT:H72	130:L7:49:DT:C6	2.51	0.44
106:J5:9:DT:C2'	106:J5:10:DT:H72	2.48	0.44
109:J8:4:DA:H2'	109:J8:5:DT:H72	2.00	0.44
112:JC:25:DA:H2'	112:JC:26:DT:H72	2.00	0.44
114:K1:13:DT:C2'	114:K1:14:DT:H72	2.48	0.44
115:K2:27:DG:H1'	115:K2:28:DA:H5'	1.98	0.44
121:K9:15:DA:H2'	121:K9:16:DT:H72	2.00	0.44
122:KA:33:DG:H1'	122:KA:34:DA:H5'	1.98	0.44
126:L2:31:DT:C2'	126:L2:32:DT:H72	2.48	0.44
128:L5:16:DG:H1'	128:L5:17:DA:H5'	1.98	0.44
129:L6:13:DA:C2'	129:L6:14:DT:H72	2.46	0.44
133:LA:8:DT:C2'	133:LA:9:DT:H72	2.48	0.44
138:M5:25:DA:H2'	138:M5:26:DT:H72	2.00	0.44
142:M9:23:DT:C6	218:UA:1:DT:H72	2.51	0.44
148:N5:18:DG:H1'	148:N5:19:DA:H5'	1.97	0.44
152:N9:1:DT:H72	191:RA:31:DA:H2'	2.00	0.44
160:O7:49:DA:H2'	160:O7:50:DT:H72	2.00	0.44
175:PD:8:DG:H1'	175:PD:9:DA:H5'	1.98	0.44
195:S3:18:DA:C2'	195:S3:19:DT:H72	2.46	0.44
198:S8:29:DG:H1'	198:S8:30:DA:H5'	1.98	0.44
202:SD:28:DT:C6	202:SD:29:DT:H72	2.51	0.44
204:T3:33:DT:C2'	204:T3:34:DT:H72	2.48	0.44
206:T7:42:DG:H1'	206:T7:43:DA:H5'	1.98	0.44
219:UC:15:DT:C6	219:UC:16:DT:H72	2.51	0.44
221:V2:16:DT:C2'	221:V2:17:DT:H72	2.48	0.44
230:W3:25:DT:C2'	230:W3:26:DT:H72	2.48	0.44
8:A8:25:DT:C2'	8:A8:26:DT:H72	2.48	0.44
9:A9:11:DA:C2'	9:A9:12:DT:H72	2.46	0.44
11:AB:143:DT:C6	11:AB:144:DT:H72	2.51	0.44
11:AB:493:DT:C6	11:AB:494:DT:H72	2.51	0.44
11:AB:522:DG:H1'	11:AB:523:DA:H5'	1.98	0.44
11:AB:572:DT:C2'	11:AB:573:DT:H72	2.48	0.44
11:AB:603:DT:C2'	11:AB:604:DT:H72	2.48	0.44
11:AB:624:DT:C2'	11:AB:625:DT:H72	2.48	0.44
11:AB:1003:DA:C2'	11:AB:1004:DT:H72	2.46	0.44
11:AB:1070:DT:C2'	11:AB:1071:DT:H72	2.48	0.44
11:AB:1273:DT:C6	11:AB:1274:DT:H72	2.51	0.44
11:AB:1378:DA:H2'	11:AB:1379:DT:H72	2.00	0.44
11:AB:1383:DT:C2'	11:AB:1384:DT:H72	2.48	0.44
11:AB:1503:DT:C2'	11:AB:1504:DT:H72	2.48	0.44
11:AB:1563:DT:C2'	11:AB:1564:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1779:DT:C6	11:AB:1780:DT:H72	2.51	0.44
11:AB:1975:DT:C2'	11:AB:1976:DT:H72	2.48	0.44
11:AB:1998:DG:H1'	11:AB:1999:DA:H5'	1.98	0.44
11:AB:2089:DT:C2'	11:AB:2090:DT:H72	2.48	0.44
11:AB:2350:DA:H2'	11:AB:2351:DT:H72	2.00	0.44
11:AB:2438:DT:C2'	11:AB:2439:DT:H72	2.48	0.44
11:AB:2459:DT:C6	11:AB:2460:DT:H72	2.51	0.44
11:AB:2735:DT:C6	11:AB:2736:DT:H72	2.51	0.44
11:AB:2756:DT:C6	11:AB:2757:DT:H72	2.51	0.44
11:AB:2800:DT:C2'	11:AB:2801:DT:H72	2.48	0.44
11:AB:2810:DT:C2'	11:AB:2811:DT:H72	2.48	0.44
11:AB:2819:DT:C2'	11:AB:2820:DT:H72	2.48	0.44
11:AB:2821:DT:C2'	11:AB:2822:DT:H72	2.48	0.44
11:AB:2834:DT:C2'	11:AB:2835:DT:H72	2.48	0.44
11:AB:2942:DA:C2'	11:AB:2943:DT:H72	2.46	0.44
11:AB:3004:DT:C2'	11:AB:3005:DT:H72	2.48	0.44
11:AB:3059:DT:C6	11:AB:3060:DT:H72	2.51	0.44
11:AB:3134:DA:H2'	11:AB:3135:DT:H72	2.00	0.44
11:AB:3200:DT:C6	11:AB:3201:DT:H72	2.51	0.44
11:AB:3203:DA:C2'	11:AB:3204:DT:H72	2.46	0.44
11:AB:3396:DT:C6	11:AB:3397:DT:H72	2.51	0.44
11:AB:3532:DA:C2'	11:AB:3533:DT:H72	2.46	0.44
11:AB:3571:DT:C2'	11:AB:3572:DT:H72	2.48	0.44
11:AB:3715:DT:C2'	11:AB:3716:DT:H72	2.48	0.44
11:AB:3716:DT:C2'	11:AB:3717:DT:H72	2.48	0.44
11:AB:3905:DT:C2'	11:AB:3906:DT:H72	2.48	0.44
11:AB:4151:DT:C2'	11:AB:4320:DT:H72	2.48	0.44
11:AB:4234:DA:H2'	11:AB:4235:DT:H72	2.00	0.44
11:AB:4326:DT:C2'	11:AB:4327:DT:H72	2.48	0.44
11:AB:4327:DT:C2'	11:AB:4328:DT:H72	2.48	0.44
11:AB:4409:DT:C6	11:AB:4410:DT:H72	2.51	0.44
11:AB:4613:DT:C2'	11:AB:4614:DT:H72	2.48	0.44
11:AB:4686:DT:C2'	11:AB:4687:DT:H72	2.48	0.44
11:AB:4768:DT:C2'	11:AB:4769:DT:H72	2.48	0.44
11:AB:4769:DT:C2'	11:AB:4770:DT:H72	2.48	0.44
11:AB:4797:DT:C2'	11:AB:4798:DT:H72	2.48	0.44
11:AB:4804:DT:C2'	11:AB:4805:DT:H72	2.48	0.44
11:AB:4872:DT:C2'	11:AB:4873:DT:H72	2.48	0.44
11:AB:4994:DT:C2'	11:AB:4995:DT:H72	2.48	0.44
11:AB:5286:DT:C2'	11:AB:5287:DT:H72	2.48	0.44
11:AB:5290:DT:C2'	11:AB:5291:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5307:DT:C2'	11:AB:5308:DT:H72	2.48	0.44
11:AB:5362:DT:C6	11:AB:5363:DT:H72	2.51	0.44
11:AB:5383:DT:C2'	11:AB:5384:DT:H72	2.48	0.44
11:AB:5607:DT:C2'	11:AB:5608:DT:H72	2.48	0.44
11:AB:5656:DG:H1'	11:AB:5657:DA:H5'	1.98	0.44
11:AB:5689:DA:H2'	11:AB:5690:DT:H72	2.00	0.44
11:AB:5745:DT:C6	11:AB:5746:DT:H72	2.51	0.44
11:AB:5769:DA:C2'	11:AB:5770:DT:H72	2.46	0.44
11:AB:5779:DT:C2'	11:AB:5780:DT:H72	2.48	0.44
11:AB:5812:DT:C2'	11:AB:5813:DT:H72	2.48	0.44
11:AB:6072:DG:H1'	11:AB:6073:DA:H5'	1.98	0.44
11:AB:6326:DA:C2'	11:AB:6327:DT:H72	2.46	0.44
11:AB:6425:DT:C2'	11:AB:6426:DT:H72	2.48	0.44
11:AB:6489:DT:C2'	11:AB:6490:DT:H72	2.48	0.44
11:AB:6635:DT:C6	11:AB:6636:DT:H72	2.51	0.44
11:AB:6739:DA:H2'	11:AB:6740:DT:H72	2.00	0.44
11:AB:6748:DA:H2'	11:AB:6749:DT:H72	2.00	0.44
11:AB:6770:DT:C6	11:AB:6771:DT:H72	2.51	0.44
11:AB:6879:DT:C2'	11:AB:6880:DT:H72	2.48	0.44
11:AB:7009:DA:C2'	11:AB:7010:DT:H72	2.46	0.44
12:AC:11:DA:H2'	12:AC:12:DT:H72	2.00	0.44
22:B9:18:DT:C2'	22:B9:19:DT:H72	2.48	0.44
23:BA:25:DT:C2'	23:BA:26:DT:H72	2.48	0.44
35:CC:13:DT:C2'	35:CC:14:DT:H72	2.48	0.44
41:D6:30:DA:H2'	41:D6:31:DT:H72	2.00	0.44
43:D8:44:DT:C2'	43:D8:45:DT:H72	2.48	0.44
49:E2:15:DT:C2'	49:E2:16:DT:H72	2.48	0.44
49:E2:28:DG:H1'	49:E2:29:DA:H5'	1.98	0.44
59:F1:20:DT:C6	102:ID:1:DT:H72	2.52	0.44
60:F2:20:DG:H1'	60:F2:21:DA:H5'	1.98	0.44
60:F2:30:DT:C2'	60:F2:31:DT:H72	2.48	0.44
62:F5:8:DT:C2'	62:F5:9:DT:H72	2.48	0.44
77:G9:14:DT:C2'	77:G9:15:DT:H72	2.48	0.44
86:H7:11:DG:H1'	86:H7:12:DA:H5'	1.98	0.44
86:H7:17:DT:C2'	86:H7:18:DT:H72	2.48	0.44
89:HA:17:DT:C2'	89:HA:18:DT:H72	2.48	0.44
94:I3:41:DT:C2'	94:I3:42:DT:H72	2.48	0.44
95:I5:39:DA:C2'	95:I5:40:DT:H72	2.46	0.44
96:I6:8:DT:C6	96:I6:9:DT:H72	2.51	0.44
105:J3:24:DA:C2'	105:J3:25:DT:H72	2.46	0.44
114:K1:40:DT:C2'	114:K1:41:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
121:K9:18:DT:C2'	121:K9:19:DT:H72	2.48	0.44
123:KC:13:DT:C2'	123:KC:14:DT:H72	2.48	0.44
126:L2:52:DA:C2'	126:L2:53:DT:H72	2.46	0.44
135:LD:8:DT:C2'	135:LD:9:DT:H72	2.48	0.44
138:M5:9:DT:C2'	138:M5:10:DT:H72	2.48	0.44
145:MD:53:DG:H1'	145:MD:54:DA:H5'	1.98	0.44
154:NC:8:DG:H1'	154:NC:9:DA:H5'	1.98	0.44
154:NC:19:DT:C2'	154:NC:20:DT:H72	2.48	0.44
155:ND:16:DA:H2'	155:ND:17:DT:H72	2.00	0.44
158:O5:32:DG:H1'	158:O5:33:DA:H5'	1.98	0.44
165:OD:57:DT:C6	165:OD:58:DT:H72	2.51	0.44
166:P2:15:DT:C2'	166:P2:16:DT:H72	2.48	0.44
167:P3:13:DT:C2'	167:P3:14:DT:H72	2.48	0.44
177:Q3:11:DT:C2'	177:Q3:12:DT:H72	2.48	0.44
177:Q3:12:DT:C2'	177:Q3:13:DT:H72	2.48	0.44
188:R7:11:DT:C2'	188:R7:12:DT:H72	2.48	0.44
189:R8:11:DA:C2'	189:R8:12:DT:H72	2.46	0.44
190:R9:15:DA:C2'	190:R9:16:DT:H72	2.46	0.44
190:R9:36:DT:C2'	190:R9:37:DT:H72	2.48	0.44
191:RA:18:DT:C2'	191:RA:19:DT:H72	2.48	0.44
192:RC:31:DT:C2'	192:RC:32:DT:H72	2.48	0.44
198:S8:42:DA:H2'	198:S8:43:DT:H72	2.00	0.44
199:S9:13:DA:H2'	199:S9:14:DT:H72	2.00	0.44
212:U2:21:DT:C2'	212:U2:22:DT:H72	2.48	0.44
214:U5:23:DT:C2'	214:U5:24:DT:H72	2.48	0.44
218:UA:1:DT:C6	218:UA:2:DT:H72	2.51	0.44
219:UC:9:DT:C2'	219:UC:10:DT:H72	2.48	0.44
220:UD:4:DA:H2'	220:UD:5:DT:H72	2.00	0.44
4:A4:8:DG:H1'	4:A4:9:DA:H5'	1.98	0.44
4:A4:26:DT:C2'	4:A4:27:DT:H72	2.48	0.44
9:A9:2:DT:C2'	9:A9:3:DT:H72	2.48	0.44
9:A9:3:DT:C2'	9:A9:4:DT:H72	2.48	0.44
11:AB:74:DT:C2'	11:AB:75:DT:H72	2.48	0.44
11:AB:184:DT:C2'	11:AB:185:DT:H72	2.48	0.44
11:AB:189:DT:C2'	11:AB:190:DT:H72	2.48	0.44
11:AB:248:DT:C2'	11:AB:249:DT:H72	2.48	0.44
11:AB:388:DT:C2'	11:AB:389:DT:H72	2.48	0.44
11:AB:530:DT:C2'	11:AB:531:DT:H72	2.48	0.44
11:AB:577:DT:C2'	11:AB:578:DT:H72	2.48	0.44
11:AB:698:DT:C2'	11:AB:699:DT:H72	2.48	0.44
11:AB:974:DT:C2'	11:AB:975:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1224:DT:C2'	11:AB:1225:DT:H72	2.48	0.44
11:AB:1235:DT:C2'	11:AB:1236:DT:H72	2.48	0.44
11:AB:1329:DT:C2'	11:AB:1330:DT:H72	2.48	0.44
11:AB:1372:DT:C2'	11:AB:1373:DT:H72	2.48	0.44
11:AB:1385:DT:C2'	11:AB:1386:DT:H72	2.48	0.44
11:AB:1437:DT:C2'	11:AB:1438:DT:H72	2.48	0.44
11:AB:1539:DT:C2'	11:AB:1540:DT:H72	2.48	0.44
11:AB:1566:DT:C2'	11:AB:1567:DT:H72	2.48	0.44
11:AB:1681:DT:C2'	11:AB:1682:DT:H72	2.48	0.44
11:AB:1753:DT:C2'	11:AB:1754:DT:H72	2.48	0.44
11:AB:1774:DT:C2'	11:AB:1775:DT:H72	2.48	0.44
11:AB:1808:DG:H1'	11:AB:1809:DA:H5'	1.98	0.44
11:AB:1816:DT:C2'	11:AB:1817:DT:H72	2.48	0.44
11:AB:1822:DT:C2'	11:AB:1823:DT:H72	2.48	0.44
11:AB:1842:DA:H2'	11:AB:1843:DT:H72	2.00	0.44
11:AB:1843:DT:C2'	11:AB:1844:DT:H72	2.48	0.44
11:AB:1991:DT:C2'	11:AB:1992:DT:H72	2.48	0.44
11:AB:2047:DT:C2'	11:AB:2048:DT:H72	2.48	0.44
11:AB:2057:DT:C2'	11:AB:5778:DT:H72	2.48	0.44
11:AB:2115:DT:C2'	11:AB:2116:DT:H72	2.48	0.44
11:AB:2198:DT:C2'	11:AB:2199:DT:H72	2.48	0.44
11:AB:2272:DT:C2'	11:AB:5577:DT:H72	2.48	0.44
11:AB:2364:DT:C2'	11:AB:5437:DT:H72	2.48	0.44
11:AB:2423:DT:C2'	11:AB:2424:DT:H72	2.48	0.44
11:AB:2442:DT:C2'	11:AB:5367:DT:H72	2.48	0.44
11:AB:2527:DT:C2'	11:AB:5284:DT:H72	2.48	0.44
11:AB:2592:DG:H1'	11:AB:2593:DA:H5'	1.98	0.44
11:AB:2624:DT:C2'	11:AB:2625:DT:H72	2.48	0.44
11:AB:2680:DT:C2'	11:AB:2681:DT:H72	2.48	0.44
11:AB:2690:DT:C2'	11:AB:2691:DT:H72	2.48	0.44
11:AB:2820:DT:C2'	11:AB:2821:DT:H72	2.48	0.44
11:AB:2835:DT:C2'	11:AB:2836:DT:H72	2.48	0.44
11:AB:2848:DT:C2'	11:AB:2849:DT:H72	2.48	0.44
11:AB:2891:DT:C2'	11:AB:2892:DT:H72	2.48	0.44
11:AB:2927:DT:C2'	11:AB:2928:DT:H72	2.48	0.44
11:AB:2927:DT:C6	11:AB:2928:DT:H72	2.52	0.44
11:AB:3030:DT:C2'	11:AB:3031:DT:H72	2.48	0.44
11:AB:3031:DT:C2'	11:AB:3032:DT:H72	2.48	0.44
11:AB:3130:DG:H1'	11:AB:3131:DA:H5'	1.98	0.44
11:AB:3164:DT:C2'	11:AB:3165:DT:H72	2.48	0.44
11:AB:3192:DT:C2'	11:AB:3193:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3349:DT:C2'	11:AB:3350:DT:H72	2.48	0.44
11:AB:3467:DT:C2'	11:AB:3468:DT:H72	2.48	0.44
11:AB:3503:DT:C2'	11:AB:3504:DT:H72	2.48	0.44
11:AB:3678:DT:C2'	11:AB:4519:DT:H72	2.48	0.44
11:AB:3758:DT:C2'	11:AB:3759:DT:H72	2.48	0.44
11:AB:3828:DT:C2'	11:AB:3829:DT:H72	2.48	0.44
11:AB:3995:DT:C2'	11:AB:3996:DT:H72	2.48	0.44
11:AB:4011:DT:C2'	11:AB:4348:DT:H72	2.48	0.44
11:AB:4152:DT:H72	11:AB:4319:DT:C2'	2.48	0.44
11:AB:4256:DG:H1'	11:AB:4257:DA:H5'	1.98	0.44
11:AB:4274:DT:C2'	11:AB:4275:DT:H72	2.48	0.44
11:AB:4404:DT:C2'	11:AB:4405:DT:H72	2.48	0.44
11:AB:4424:DT:C2'	11:AB:4425:DT:H72	2.48	0.44
11:AB:4434:DT:C2'	11:AB:4435:DT:H72	2.48	0.44
11:AB:4605:DT:C2'	11:AB:4606:DT:H72	2.48	0.44
11:AB:4698:DT:C2'	11:AB:4699:DT:H72	2.48	0.44
11:AB:5184:DT:C2'	11:AB:5185:DT:H72	2.48	0.44
11:AB:5457:DT:C2'	11:AB:5458:DT:H72	2.48	0.44
11:AB:5537:DT:C2'	11:AB:5538:DT:H72	2.48	0.44
11:AB:5639:DT:C2'	11:AB:5640:DT:H72	2.48	0.44
11:AB:5729:DT:C2'	11:AB:5730:DT:H72	2.48	0.44
11:AB:5731:DT:C2'	11:AB:5732:DT:H72	2.48	0.44
11:AB:5819:DT:C2'	11:AB:5820:DT:H72	2.48	0.44
11:AB:5982:DT:C2'	11:AB:5983:DT:H72	2.48	0.44
11:AB:6009:DT:C2'	11:AB:6010:DT:H72	2.48	0.44
11:AB:6038:DT:C2'	11:AB:6039:DT:H72	2.48	0.44
11:AB:6094:DT:C2'	11:AB:6095:DT:H72	2.48	0.44
11:AB:6132:DT:C2'	11:AB:6133:DT:H72	2.48	0.44
11:AB:6175:DT:C2'	11:AB:6176:DT:H72	2.48	0.44
11:AB:6183:DT:C2'	11:AB:6184:DT:H72	2.48	0.44
11:AB:6184:DT:C2'	11:AB:6185:DT:H72	2.48	0.44
11:AB:6191:DT:C2'	11:AB:6192:DT:H72	2.48	0.44
11:AB:6302:DT:C2'	11:AB:6303:DT:H72	2.48	0.44
11:AB:6374:DT:C2'	11:AB:6375:DT:H72	2.48	0.44
11:AB:6393:DT:C6	11:AB:6394:DT:H72	2.51	0.44
11:AB:6483:DT:C2'	11:AB:6484:DT:H72	2.48	0.44
11:AB:6487:DT:C2'	11:AB:6488:DT:H72	2.48	0.44
11:AB:6598:DT:C2'	11:AB:6599:DT:H72	2.48	0.44
11:AB:6657:DT:C2'	11:AB:6658:DT:H72	2.48	0.44
11:AB:6808:DT:C2'	11:AB:6809:DT:H72	2.48	0.44
11:AB:6889:DT:C2'	11:AB:6890:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6957:DT:C2'	11:AB:6958:DT:H72	2.48	0.44
11:AB:7001:DT:C2'	11:AB:7002:DT:H72	2.48	0.44
11:AB:7034:DT:C2'	11:AB:7035:DT:H72	2.48	0.44
11:AB:7048:DT:C2'	11:AB:7049:DT:H72	2.48	0.44
11:AB:7055:DT:C2'	11:AB:7056:DT:H72	2.48	0.44
11:AB:7062:DT:C2'	11:AB:7063:DT:H72	2.48	0.44
11:AB:7075:DT:C2'	11:AB:7076:DT:H72	2.48	0.44
11:AB:7087:DT:C2'	11:AB:7088:DT:H72	2.48	0.44
11:AB:7107:DA:C2'	11:AB:7108:DT:H72	2.46	0.44
11:AB:7202:DG:H1'	11:AB:7203:DA:H5'	1.98	0.44
11:AB:7221:DT:C2'	11:AB:7222:DT:H72	2.48	0.44
12:AC:15:DT:C2'	12:AC:16:DT:H72	2.48	0.44
13:AD:36:DT:C2'	13:AD:37:DT:H72	2.48	0.44
18:B5:33:DG:H1'	18:B5:34:DA:H5'	1.98	0.44
21:B8:4:DT:C2'	21:B8:5:DT:H72	2.48	0.44
21:B8:23:DT:C2'	21:B8:24:DT:H72	2.48	0.44
25:BD:11:DA:H2'	25:BD:12:DT:H72	2.00	0.44
26:C1:15:DT:C2'	26:C1:16:DT:H72	2.48	0.44
28:C3:21:DG:H1'	28:C3:22:DA:H5'	1.98	0.44
31:C7:7:DT:C2'	31:C7:8:DT:H72	2.48	0.44
32:C8:11:DT:C2'	32:C8:12:DT:H72	2.48	0.44
39:D3:22:DT:C2'	39:D3:23:DT:H72	2.48	0.44
41:D6:38:DT:C2'	41:D6:39:DT:H72	2.48	0.44
42:D7:5:DT:C2'	42:D7:6:DT:H72	2.48	0.44
47:DD:25:DG:H1'	47:DD:26:DA:H5'	1.98	0.44
49:E2:25:DT:C2'	49:E2:26:DT:H72	2.48	0.44
53:E7:5:DT:C2'	53:E7:6:DT:H72	2.48	0.44
55:E9:32:DT:C2'	55:E9:33:DT:H72	2.48	0.44
60:F2:31:DT:C2'	60:F2:32:DT:H72	2.48	0.44
62:F5:21:DT:C2'	62:F5:22:DT:H72	2.48	0.44
67:FA:23:DT:C2'	67:FA:24:DT:H72	2.48	0.44
78:GA:9:DT:C2'	78:GA:10:DT:H72	2.48	0.44
79:GC:19:DT:C2'	79:GC:20:DT:H72	2.48	0.44
83:H3:17:DT:C2'	83:H3:18:DT:H72	2.48	0.44
89:HA:15:DT:C2'	89:HA:16:DT:H72	2.48	0.44
89:HA:25:DG:H1'	89:HA:26:DA:H5'	1.98	0.44
91:HD:6:DA:C2'	91:HD:7:DT:H72	2.46	0.44
98:I8:42:DT:C2'	98:I8:43:DT:H72	2.48	0.44
104:J2:19:DT:C2'	104:J2:20:DT:H72	2.48	0.44
105:J3:12:DT:C2'	105:J3:13:DT:H72	2.48	0.44
108:J7:24:DT:C2'	108:J7:25:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
112:JC:19:DT:C2'	112:JC:20:DT:H72	2.48	0.44
112:JC:20:DT:C2'	112:JC:21:DT:H72	2.48	0.44
115:K2:6:DT:C2'	115:K2:7:DT:H72	2.48	0.44
117:K5:37:DT:C2'	117:K5:38:DT:H72	2.48	0.44
119:K7:6:DT:C2'	119:K7:7:DT:H72	2.48	0.44
123:KC:14:DT:C2'	123:KC:15:DT:H72	2.48	0.44
125:L1:18:DA:H2'	125:L1:19:DT:H72	2.00	0.44
130:L7:3:DT:C2'	130:L7:4:DT:H72	2.48	0.44
130:L7:13:DT:C2'	130:L7:14:DT:H72	2.48	0.44
131:L8:13:DT:C2'	131:L8:14:DT:H72	2.48	0.44
132:L9:18:DT:C2'	132:L9:19:DT:H72	2.48	0.44
133:LA:9:DT:C2'	133:LA:10:DT:H72	2.48	0.44
138:M5:38:DT:C2'	138:M5:39:DT:H72	2.48	0.44
144:MC:16:DT:C2'	144:MC:17:DT:H72	2.48	0.44
145:MD:10:DT:C2'	145:MD:11:DT:H72	2.48	0.44
149:N6:4:DT:C2'	149:N6:5:DT:H72	2.48	0.44
154:NC:12:DT:C2'	154:NC:13:DT:H72	2.48	0.44
154:NC:18:DT:C2'	154:NC:19:DT:H72	2.48	0.44
159:O6:2:DT:C2'	159:O6:3:DT:H72	2.48	0.44
168:P5:11:DT:C2'	168:P5:12:DT:H72	2.48	0.44
171:P8:9:DT:C2'	171:P8:10:DT:H72	2.48	0.44
173:PA:16:DT:C2'	173:PA:17:DT:H72	2.48	0.44
183:QC:25:DT:C2'	183:QC:26:DT:H72	2.48	0.44
187:R5:25:DG:H1'	187:R5:26:DA:H5'	1.97	0.44
190:R9:6:DT:C2'	190:R9:7:DT:H72	2.48	0.44
191:RA:17:DT:C2'	191:RA:18:DT:H72	2.48	0.44
194:S2:27:DT:C2'	194:S2:28:DT:H72	2.48	0.44
203:T2:7:DT:C2'	203:T2:8:DT:H72	2.48	0.44
211:TD:25:DT:C2'	211:TD:26:DT:H72	2.48	0.44
214:U5:19:DT:C2'	214:U5:20:DT:H72	2.48	0.44
220:UD:11:DT:C2'	220:UD:12:DT:H72	2.48	0.44
221:V2:22:DT:C2'	221:V2:23:DT:H72	2.48	0.44
230:W3:4:DA:H2'	230:W3:5:DT:H72	2.00	0.44
230:W3:11:DT:C2'	230:W3:12:DT:H72	2.48	0.44
231:W5:11:DT:C2'	231:W5:12:DT:H72	2.48	0.44
236:X5:20:DA:H2'	236:X5:21:DT:H72	2.00	0.44
1:A1:1:DT:H72	70:G1:19:DA:H2'	2.00	0.44
1:A1:56:DT:C2'	1:A1:57:DT:H72	2.48	0.44
4:A4:27:DT:C2'	4:A4:28:DT:H72	2.48	0.44
6:A6:6:DG:H1'	6:A6:7:DA:H5'	1.97	0.44
7:A7:11:DG:H1'	7:A7:12:DA:H5'	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:36:DT:C2'	11:AB:37:DT:H72	2.48	0.44
11:AB:225:DT:C2'	11:AB:226:DT:H72	2.48	0.44
11:AB:252:DT:C2'	11:AB:253:DT:H72	2.48	0.44
11:AB:338:DT:C2'	11:AB:339:DT:H72	2.48	0.44
11:AB:382:DT:C2'	11:AB:383:DT:H72	2.48	0.44
11:AB:610:DT:C2'	11:AB:611:DT:H72	2.48	0.44
11:AB:651:DG:H1'	11:AB:652:DT:H5'	2.00	0.44
11:AB:740:DT:C2'	11:AB:741:DT:H72	2.48	0.44
11:AB:755:DA:H2'	11:AB:756:DT:H72	2.00	0.44
11:AB:756:DT:C2'	11:AB:757:DT:H72	2.48	0.44
11:AB:770:DT:C2'	11:AB:771:DT:H72	2.48	0.44
11:AB:783:DT:C2'	11:AB:784:DT:H72	2.48	0.44
11:AB:797:DA:H2'	11:AB:798:DT:H72	2.00	0.44
11:AB:1066:DT:C2'	11:AB:1067:DT:H72	2.48	0.44
11:AB:1084:DA:H2'	11:AB:1085:DT:H72	2.00	0.44
11:AB:1085:DT:C2'	11:AB:1086:DT:H72	2.48	0.44
11:AB:1179:DA:H2'	11:AB:1180:DT:H72	2.00	0.44
11:AB:1211:DT:C2'	11:AB:1212:DT:H72	2.48	0.44
11:AB:1241:DT:C2'	11:AB:1242:DT:H72	2.48	0.44
11:AB:1271:DT:C2'	11:AB:1272:DT:H72	2.48	0.44
11:AB:1302:DT:C2'	11:AB:1303:DT:H72	2.48	0.44
11:AB:1303:DT:C2'	11:AB:1304:DT:H72	2.48	0.44
11:AB:1313:DT:C2'	11:AB:1314:DT:H72	2.48	0.44
11:AB:1345:DT:C2'	11:AB:1346:DT:H72	2.48	0.44
11:AB:1362:DG:H1'	11:AB:1363:DT:H5'	2.00	0.44
11:AB:1363:DT:C2'	11:AB:1364:DT:H72	2.48	0.44
11:AB:1393:DT:C2'	11:AB:1394:DT:H72	2.48	0.44
11:AB:1471:DT:C2'	11:AB:1472:DT:H72	2.48	0.44
11:AB:1545:DT:C2'	11:AB:1546:DT:H72	2.48	0.44
11:AB:1553:DT:C2'	11:AB:1554:DT:H72	2.48	0.44
11:AB:1653:DT:C2'	11:AB:1654:DT:H72	2.48	0.44
11:AB:1678:DT:C2'	11:AB:1679:DT:H72	2.48	0.44
11:AB:1679:DT:C2'	11:AB:1680:DT:H72	2.48	0.44
11:AB:1680:DT:C2'	11:AB:1681:DT:H72	2.48	0.44
11:AB:1712:DT:C2'	11:AB:1713:DT:H72	2.48	0.44
11:AB:1716:DT:C2'	11:AB:1717:DT:H72	2.48	0.44
11:AB:1717:DT:C2'	11:AB:1718:DT:H72	2.48	0.44
11:AB:1911:DT:C2'	11:AB:1912:DT:H72	2.48	0.44
11:AB:1933:DT:C2'	11:AB:1934:DT:H72	2.48	0.44
11:AB:2023:DT:C2'	11:AB:2024:DT:H72	2.48	0.44
11:AB:2098:DT:C2'	11:AB:2099:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2131:DT:C2'	11:AB:2132:DT:H72	2.48	0.44
11:AB:2248:DA:H2'	11:AB:2249:DT:H72	2.00	0.44
11:AB:2368:DA:H2'	11:AB:2369:DT:H72	2.00	0.44
11:AB:2396:DT:C2'	11:AB:2397:DT:H72	2.48	0.44
11:AB:2411:DT:C2'	11:AB:2412:DT:H72	2.48	0.44
11:AB:2475:DT:C2'	11:AB:2476:DT:H72	2.48	0.44
11:AB:2493:DT:C2'	11:AB:2494:DT:H72	2.48	0.44
11:AB:2615:DG:H1'	11:AB:2616:DA:H5'	1.98	0.44
11:AB:2648:DT:C2'	11:AB:2649:DT:H72	2.48	0.44
11:AB:2659:DT:C2'	11:AB:2660:DT:H72	2.48	0.44
11:AB:2680:DT:C6	11:AB:2681:DT:H72	2.51	0.44
11:AB:2800:DT:C6	11:AB:2801:DT:H72	2.51	0.44
11:AB:2830:DT:C2'	11:AB:2831:DT:H72	2.48	0.44
11:AB:2847:DT:C2'	11:AB:2848:DT:H72	2.48	0.44
11:AB:2861:DT:C2'	11:AB:2862:DT:H72	2.48	0.44
11:AB:2934:DT:C2'	11:AB:2935:DT:H72	2.48	0.44
11:AB:2967:DT:C2'	11:AB:2968:DT:H72	2.48	0.44
11:AB:3000:DT:C2'	11:AB:3001:DT:H72	2.48	0.44
11:AB:3009:DT:C2'	11:AB:3010:DT:H72	2.48	0.44
11:AB:3013:DG:H1'	11:AB:3014:DT:H5'	2.00	0.44
11:AB:3054:DT:C2'	11:AB:3055:DT:H72	2.48	0.44
11:AB:3074:DA:H2'	11:AB:3075:DT:H72	2.00	0.44
11:AB:3103:DT:C2'	11:AB:3104:DT:H72	2.48	0.44
11:AB:3156:DT:C2'	11:AB:3157:DT:H72	2.48	0.44
11:AB:3223:DT:C2'	11:AB:3224:DT:H72	2.48	0.44
11:AB:3244:DT:C2'	11:AB:3245:DT:H72	2.48	0.44
11:AB:3331:DT:C2'	11:AB:3332:DT:H72	2.48	0.44
11:AB:3403:DT:C2'	11:AB:3404:DT:H72	2.48	0.44
11:AB:3439:DT:C2'	11:AB:3440:DT:H72	2.48	0.44
11:AB:3522:DT:C2'	11:AB:3523:DT:H72	2.48	0.44
11:AB:3617:DT:C2'	11:AB:3618:DT:H72	2.48	0.44
11:AB:3623:DT:C2'	11:AB:3624:DT:H72	2.48	0.44
11:AB:3649:DG:H1'	11:AB:3650:DT:H5'	2.00	0.44
11:AB:3948:DT:C2'	11:AB:3949:DT:H72	2.48	0.44
11:AB:3993:DG:H1'	11:AB:3994:DT:H5'	2.00	0.44
11:AB:3994:DT:C2'	11:AB:3995:DT:H72	2.48	0.44
11:AB:4032:DA:H2'	11:AB:4033:DT:H72	2.00	0.44
11:AB:4101:DT:C2'	11:AB:4102:DT:H72	2.48	0.44
11:AB:4348:DT:C2'	11:AB:4349:DT:H72	2.48	0.44
11:AB:4905:DT:C2'	11:AB:4906:DT:H72	2.48	0.44
11:AB:5021:DT:C2'	11:AB:5022:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5130:DA:H2'	11:AB:5131:DT:H72	2.00	0.44
11:AB:5280:DT:C2'	11:AB:5281:DT:H72	2.48	0.44
11:AB:5289:DG:H1'	11:AB:5290:DT:H5'	2.00	0.44
11:AB:5393:DT:C2'	11:AB:5394:DT:H72	2.48	0.44
11:AB:5597:DT:C2'	11:AB:5598:DT:H72	2.48	0.44
11:AB:5730:DT:C2'	11:AB:5731:DT:H72	2.48	0.44
11:AB:5780:DT:C2'	11:AB:5781:DT:H72	2.48	0.44
11:AB:5787:DT:C2'	11:AB:5788:DT:H72	2.48	0.44
11:AB:5790:DT:C2'	11:AB:5791:DT:H72	2.48	0.44
11:AB:5808:DT:C2'	11:AB:5809:DT:H72	2.48	0.44
11:AB:6002:DT:C2'	11:AB:6003:DT:H72	2.48	0.44
11:AB:6046:DT:C2'	11:AB:6047:DT:H72	2.48	0.44
11:AB:6078:DT:C2'	11:AB:6079:DT:H72	2.48	0.44
11:AB:6127:DT:C2'	11:AB:6128:DT:H72	2.48	0.44
11:AB:6143:DT:C2'	11:AB:6144:DT:H72	2.48	0.44
11:AB:6257:DT:C2'	11:AB:6258:DT:H72	2.48	0.44
11:AB:6274:DT:C2'	11:AB:6275:DT:H72	2.48	0.44
11:AB:6323:DT:C2'	11:AB:6324:DT:H72	2.48	0.44
11:AB:6343:DT:C2'	11:AB:6344:DT:H72	2.48	0.44
11:AB:6366:DT:C2'	11:AB:6367:DT:H72	2.48	0.44
11:AB:6367:DT:C2'	11:AB:6368:DT:H72	2.48	0.44
11:AB:6424:DT:C2'	11:AB:6425:DT:H72	2.48	0.44
11:AB:6569:DT:C2'	11:AB:6570:DT:H72	2.48	0.44
11:AB:6578:DT:C2'	11:AB:6579:DT:H72	2.48	0.44
11:AB:6584:DT:C2'	11:AB:6585:DT:H72	2.48	0.44
11:AB:6599:DT:C2'	11:AB:6600:DT:H72	2.48	0.44
11:AB:6686:DA:H2'	11:AB:6687:DT:H72	2.00	0.44
11:AB:6719:DT:C2'	11:AB:6720:DT:H72	2.48	0.44
11:AB:6782:DA:H2'	11:AB:6783:DT:H72	2.00	0.44
11:AB:6895:DT:C2'	11:AB:6896:DT:H72	2.48	0.44
11:AB:6983:DT:C2'	11:AB:6984:DT:H72	2.48	0.44
11:AB:7033:DT:C2'	11:AB:7034:DT:H72	2.48	0.44
11:AB:7047:DT:C2'	11:AB:7048:DT:H72	2.48	0.44
11:AB:7067:DT:C2'	11:AB:7068:DT:H72	2.48	0.44
11:AB:7096:DT:C2'	11:AB:7097:DT:H72	2.48	0.44
11:AB:7103:DT:C2'	11:AB:7104:DT:H72	2.48	0.44
12:AC:12:DT:C2'	12:AC:13:DT:H72	2.48	0.44
12:AC:14:DT:C2'	12:AC:15:DT:H72	2.48	0.44
13:AD:40:DT:C2'	13:AD:41:DT:H72	2.48	0.44
14:B1:11:DT:C2'	14:B1:12:DT:H72	2.48	0.44
18:B5:19:DT:C2'	18:B5:20:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:B7:15:DT:C2'	20:B7:16:DT:H72	2.48	0.44
22:B9:2:DT:C2'	22:B9:3:DT:H72	2.48	0.44
29:C5:1:DT:C2'	29:C5:2:DT:H72	2.48	0.44
36:CD:16:DT:C2'	36:CD:17:DT:H72	2.48	0.44
37:D1:12:DG:H1'	37:D1:13:DA:H5'	1.98	0.44
40:D5:15:DT:C2'	40:D5:16:DT:H72	2.48	0.44
41:D6:37:DT:C2'	41:D6:38:DT:H72	2.48	0.44
59:F1:20:DT:C2'	102:ID:1:DT:H72	2.48	0.44
82:H2:16:DT:C2'	82:H2:17:DT:H72	2.48	0.44
83:H3:3:DT:C2'	83:H3:4:DT:H72	2.48	0.44
87:H8:6:DT:C2'	87:H8:7:DT:H72	2.48	0.44
95:I5:16:DA:H2'	95:I5:17:DT:H72	2.00	0.44
102:ID:9:DT:C2'	102:ID:10:DT:H72	2.48	0.44
105:J3:9:DG:H1'	105:J3:10:DA:H5'	1.98	0.44
105:J3:17:DT:C2'	105:J3:18:DT:H72	2.48	0.44
105:J3:18:DT:C2'	105:J3:19:DT:H72	2.48	0.44
108:J7:23:DA:H2'	108:J7:24:DT:H72	2.00	0.44
114:K1:26:DG:H1'	114:K1:27:DA:H5'	1.98	0.44
117:K5:14:DT:C2'	117:K5:15:DT:H72	2.48	0.44
119:K7:19:DT:C2'	119:K7:20:DT:H72	2.48	0.44
119:K7:24:DT:C2'	119:K7:25:DT:H72	2.48	0.44
119:K7:37:DT:C2'	119:K7:38:DT:H72	2.48	0.44
121:K9:5:DA:H2'	121:K9:6:DT:H72	2.00	0.44
125:L1:30:DT:C2'	125:L1:31:DT:H72	2.48	0.44
130:L7:17:DT:C2'	130:L7:18:DT:H72	2.48	0.44
130:L7:45:DT:C2'	130:L7:46:DT:H72	2.48	0.44
135:LD:9:DT:C2'	135:LD:10:DT:H72	2.48	0.44
136:M2:9:DA:H2'	136:M2:10:DT:H72	2.00	0.44
138:M5:10:DT:C2'	138:M5:11:DT:H72	2.48	0.44
138:M5:39:DT:C2'	138:M5:40:DT:H72	2.48	0.44
141:M8:11:DT:C2'	141:M8:12:DT:H72	2.48	0.44
145:MD:34:DT:C2'	145:MD:35:DT:H72	2.48	0.44
148:N5:8:DT:C2'	148:N5:9:DT:H72	2.48	0.44
149:N6:5:DT:C2'	149:N6:6:DT:H72	2.48	0.44
152:N9:29:DG:H1'	152:N9:30:DA:H5'	1.98	0.44
157:O3:1:DG:H1'	157:O3:2:DA:H5'	1.98	0.44
160:O7:22:DT:C2'	160:O7:23:DT:H72	2.48	0.44
166:P2:14:DT:C2'	166:P2:15:DT:H72	2.48	0.44
176:Q2:15:DG:H1'	176:Q2:16:DT:H5'	2.00	0.44
177:Q3:10:DT:C2'	177:Q3:11:DT:H72	2.48	0.44
178:Q5:31:DT:C2'	178:Q5:32:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
181:Q9:28:DT:C2'	181:Q9:29:DT:H72	2.48	0.44
181:Q9:29:DT:C2'	181:Q9:30:DT:H72	2.48	0.44
183:QC:26:DT:C2'	183:QC:27:DT:H72	2.48	0.44
185:R2:5:DG:H1'	185:R2:6:DA:H5'	1.98	0.44
208:T9:19:DT:C2'	208:T9:20:DT:H72	2.48	0.44
212:U2:22:DT:C2'	212:U2:23:DT:H72	2.48	0.44
215:U7:16:DT:C2'	215:U7:17:DT:H72	2.48	0.44
216:U8:22:DT:C2'	216:U8:23:DT:H72	2.48	0.44
221:V2:17:DT:C2'	221:V2:18:DT:H72	2.48	0.44
222:V3:7:DT:C2'	222:V3:8:DT:H72	2.48	0.44
227:VA:9:DT:C2'	227:VA:10:DT:H72	2.48	0.44
228:VC:33:DG:H1'	228:VC:34:DA:H5'	1.98	0.44
231:W5:30:DT:C2'	231:W5:31:DT:H72	2.48	0.44
233:W8:15:DG:H1'	233:W8:16:DT:H5'	2.00	0.44
6:A6:18:DA:H2'	6:A6:19:DT:H72	2.00	0.44
8:A8:12:DT:C2'	8:A8:13:DT:H72	2.48	0.44
8:A8:26:DT:C2'	8:A8:27:DT:H72	2.48	0.44
9:A9:15:DT:C2'	9:A9:16:DT:H72	2.48	0.44
11:AB:120:DT:C2'	11:AB:121:DT:H72	2.48	0.44
11:AB:129:DT:C2'	11:AB:130:DT:H72	2.48	0.44
11:AB:159:DT:C2'	11:AB:160:DT:H72	2.48	0.44
11:AB:162:DT:C2'	11:AB:163:DT:H72	2.48	0.44
11:AB:224:DT:C2'	11:AB:225:DT:H72	2.48	0.44
11:AB:431:DT:C6	11:AB:432:DT:H72	2.51	0.44
11:AB:508:DA:H2'	11:AB:509:DT:H72	2.00	0.44
11:AB:510:DA:H2'	11:AB:511:DT:H72	2.00	0.44
11:AB:572:DT:C6	11:AB:573:DT:H72	2.51	0.44
11:AB:602:DT:C2'	11:AB:603:DT:H72	2.48	0.44
11:AB:653:DT:C2'	11:AB:654:DT:H72	2.48	0.44
11:AB:688:DT:C2'	11:AB:689:DT:H72	2.48	0.44
11:AB:695:DT:C2'	11:AB:696:DT:H72	2.48	0.44
11:AB:794:DT:C2'	11:AB:795:DT:H72	2.48	0.44
11:AB:798:DT:C2'	11:AB:799:DT:H72	2.48	0.44
11:AB:799:DT:C2'	11:AB:800:DT:H72	2.48	0.44
11:AB:1070:DT:C6	11:AB:1071:DT:H72	2.51	0.44
11:AB:1074:DG:H1'	11:AB:1075:DT:H5'	2.00	0.44
11:AB:1102:DA:H2'	11:AB:1103:DT:H72	2.00	0.44
11:AB:1172:DT:C2'	11:AB:1173:DT:H72	2.48	0.44
11:AB:1272:DT:C2'	11:AB:1273:DT:H72	2.48	0.44
11:AB:1278:DT:C2'	11:AB:1279:DT:H72	2.48	0.44
11:AB:1421:DT:C2'	11:AB:1422:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1434:DT:C2'	11:AB:1435:DT:H72	2.48	0.44
11:AB:1451:DT:C2'	11:AB:1452:DT:H72	2.48	0.44
11:AB:1509:DT:C2'	11:AB:1510:DT:H72	2.48	0.44
11:AB:1569:DT:C2'	11:AB:1570:DT:H72	2.48	0.44
11:AB:1619:DT:C2'	11:AB:1620:DT:H72	2.48	0.44
11:AB:1632:DT:C2'	11:AB:1633:DT:H72	2.48	0.44
11:AB:1677:DG:H1'	11:AB:1678:DT:H5'	2.00	0.44
11:AB:1721:DG:H1'	11:AB:1722:DA:H5'	1.98	0.44
11:AB:1829:DG:H1'	11:AB:1830:DA:H5'	1.98	0.44
11:AB:1873:DT:C2'	11:AB:1874:DT:H72	2.48	0.44
11:AB:2022:DG:H1'	11:AB:2023:DT:H5'	2.00	0.44
11:AB:2077:DG:H1'	11:AB:2078:DA:H5'	1.97	0.44
11:AB:2089:DT:C6	11:AB:2090:DT:H72	2.51	0.44
11:AB:2128:DT:C2'	11:AB:2129:DT:H72	2.48	0.44
11:AB:2209:DG:H1'	11:AB:2210:DT:H5'	2.00	0.44
11:AB:2221:DT:C2'	11:AB:2222:DT:H72	2.48	0.44
11:AB:2244:DT:C2'	11:AB:2245:DT:H72	2.48	0.44
11:AB:2249:DT:C2'	11:AB:2250:DT:H72	2.48	0.44
11:AB:2302:DT:C2'	11:AB:2303:DT:H72	2.48	0.44
11:AB:2356:DG:H1'	11:AB:2357:DT:H5'	2.00	0.44
11:AB:2507:DT:C2'	11:AB:2508:DT:H72	2.48	0.44
11:AB:2570:DT:C2'	11:AB:2571:DT:H72	2.48	0.44
11:AB:2707:DT:C2'	11:AB:2708:DT:H72	2.48	0.44
11:AB:2721:DT:C2'	11:AB:2722:DT:H72	2.48	0.44
11:AB:2785:DA:H2'	11:AB:2786:DT:H72	2.00	0.44
11:AB:2814:DT:C2'	11:AB:2815:DT:H72	2.48	0.44
11:AB:2821:DT:C6	11:AB:2822:DT:H72	2.51	0.44
11:AB:2824:DT:C2'	11:AB:2825:DT:H72	2.48	0.44
11:AB:2888:DA:H2'	11:AB:2889:DT:H72	2.00	0.44
11:AB:2933:DT:C2'	11:AB:2934:DT:H72	2.48	0.44
11:AB:3001:DT:C2'	11:AB:3002:DT:H72	2.48	0.44
11:AB:3071:DA:H2'	11:AB:3072:DT:H72	2.00	0.44
11:AB:3092:DA:H2'	11:AB:3093:DT:H72	2.00	0.44
11:AB:3138:DT:C2'	11:AB:3139:DT:H72	2.48	0.44
11:AB:3241:DT:C2'	11:AB:3242:DT:H72	2.48	0.44
11:AB:3261:DT:C2'	11:AB:3262:DT:H72	2.48	0.44
11:AB:3334:DG:H1'	11:AB:3335:DA:H5'	1.98	0.44
11:AB:3341:DT:C2'	11:AB:3342:DT:H72	2.48	0.44
11:AB:3349:DT:C6	11:AB:3350:DT:H72	2.51	0.44
11:AB:3422:DA:H2'	11:AB:3423:DT:H72	2.00	0.44
11:AB:3440:DT:C6	11:AB:3441:DT:H72	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3668:DT:C2'	11:AB:3669:DT:H72	2.48	0.44
11:AB:3724:DA:H2'	11:AB:3725:DT:H72	2.00	0.44
11:AB:3745:DA:H2'	11:AB:3746:DT:H72	2.00	0.44
11:AB:3759:DT:C2'	11:AB:3760:DT:H72	2.48	0.44
11:AB:3939:DT:C2'	11:AB:3940:DT:H72	2.48	0.44
11:AB:4156:DT:C2'	11:AB:4157:DT:H72	2.48	0.44
11:AB:4197:DG:H1'	11:AB:4198:DT:H5'	2.00	0.44
11:AB:4229:DT:C2'	11:AB:4230:DT:H72	2.48	0.44
11:AB:4393:DA:H2'	11:AB:4394:DT:H72	2.00	0.44
11:AB:4403:DA:H2'	11:AB:4404:DT:H72	2.00	0.44
11:AB:4457:DT:C2'	11:AB:4458:DT:H72	2.48	0.44
11:AB:4536:DT:C2'	11:AB:4537:DT:H72	2.48	0.44
11:AB:4676:DT:C2'	11:AB:4677:DT:H72	2.48	0.44
11:AB:4721:DT:C2'	11:AB:4722:DT:H72	2.48	0.44
11:AB:4769:DT:C6	11:AB:4770:DT:H72	2.51	0.44
11:AB:4873:DT:C2'	11:AB:4874:DT:H72	2.48	0.44
11:AB:5318:DT:C2'	11:AB:5319:DT:H72	2.48	0.44
11:AB:5377:DT:C2'	11:AB:5378:DT:H72	2.48	0.44
11:AB:5395:DT:C2'	11:AB:5396:DT:H72	2.48	0.44
11:AB:5500:DT:C2'	11:AB:5501:DT:H72	2.48	0.44
11:AB:5608:DT:C2'	11:AB:5609:DT:H72	2.48	0.44
11:AB:5616:DT:C2'	11:AB:5617:DT:H72	2.48	0.44
11:AB:5670:DT:C2'	11:AB:5671:DT:H72	2.48	0.44
11:AB:5671:DT:C2'	11:AB:5672:DT:H72	2.48	0.44
11:AB:5697:DT:C2'	11:AB:5698:DT:H72	2.48	0.44
11:AB:5728:DG:H1'	11:AB:5729:DT:H5'	2.00	0.44
11:AB:5778:DT:C2'	11:AB:5779:DT:H72	2.48	0.44
11:AB:5818:DG:H1'	11:AB:5819:DT:H5'	2.00	0.44
11:AB:5854:DT:C2'	11:AB:5855:DT:H72	2.48	0.44
11:AB:5896:DA:H2'	11:AB:5897:DT:H72	2.00	0.44
11:AB:5903:DA:H2'	11:AB:5904:DT:H72	2.00	0.44
11:AB:5997:DT:C2'	11:AB:5998:DT:H72	2.48	0.44
11:AB:6010:DT:C2'	11:AB:6011:DT:H72	2.48	0.44
11:AB:6035:DA:H2'	11:AB:6036:DT:H72	2.00	0.44
11:AB:6094:DT:C6	11:AB:6095:DT:H72	2.51	0.44
11:AB:6128:DT:C2'	11:AB:6129:DT:H72	2.48	0.44
11:AB:6158:DG:H1'	11:AB:6159:DA:H5'	1.97	0.44
11:AB:6214:DA:H2'	11:AB:6215:DT:H72	2.00	0.44
11:AB:6225:DT:C2'	11:AB:6226:DT:H72	2.48	0.44
11:AB:6259:DT:C2'	11:AB:6260:DT:H72	2.48	0.44
11:AB:6282:DT:C2'	11:AB:6283:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6426:DT:C2'	11:AB:6427:DT:H72	2.48	0.44
11:AB:6450:DT:C2'	11:AB:6451:DT:H72	2.48	0.44
11:AB:6488:DT:C2'	11:AB:6489:DT:H72	2.48	0.44
11:AB:6508:DT:C2'	11:AB:6509:DT:H72	2.48	0.44
11:AB:6566:DT:C2'	11:AB:6567:DT:H72	2.48	0.44
11:AB:6574:DT:C2'	11:AB:6575:DT:H72	2.48	0.44
11:AB:6587:DT:C2'	11:AB:6588:DT:H72	2.48	0.44
11:AB:6698:DA:H2'	11:AB:6699:DT:H72	2.00	0.44
11:AB:6699:DT:C2'	11:AB:6700:DT:H72	2.48	0.44
11:AB:6740:DT:C2'	11:AB:6741:DT:H72	2.48	0.44
11:AB:6802:DT:C2'	11:AB:6803:DT:H72	2.48	0.44
11:AB:6838:DG:H1'	11:AB:6839:DT:H5'	2.00	0.44
11:AB:6946:DT:C2'	11:AB:6947:DT:H72	2.48	0.44
11:AB:6956:DT:C2'	11:AB:6957:DT:H72	2.48	0.44
11:AB:6976:DA:H2'	11:AB:6977:DT:H72	2.00	0.44
11:AB:7046:DT:C2'	11:AB:7047:DT:H72	2.48	0.44
11:AB:7094:DT:C2'	11:AB:7095:DT:H72	2.48	0.44
11:AB:7121:DA:H2'	11:AB:7122:DT:H72	2.00	0.44
11:AB:7175:DA:H2'	11:AB:7176:DT:H72	2.00	0.44
13:AD:37:DT:C2'	47:DD:28:DT:H72	2.48	0.44
17:B4:5:DA:H2'	17:B4:6:DT:H72	2.00	0.44
18:B5:18:DT:C2'	18:B5:19:DT:H72	2.48	0.44
21:B8:22:DT:C2'	139:M6:15:DT:H72	2.48	0.44
22:B9:53:DG:H1'	22:B9:54:DA:H5'	1.97	0.44
24:BC:32:DT:C2'	24:BC:33:DT:H72	2.48	0.44
26:C1:20:DA:H2'	26:C1:21:DT:H72	2.00	0.44
29:C5:29:DA:H2'	29:C5:30:DT:H72	2.00	0.44
31:C7:28:DT:C2'	31:C7:29:DT:H72	2.48	0.44
34:CA:1:DT:H72	228:VC:21:DT:C2'	2.48	0.44
36:CD:17:DT:C2'	36:CD:18:DT:H72	2.48	0.44
43:D8:1:DT:H72	230:W3:49:DA:H2'	2.00	0.44
49:E2:11:DT:C2'	49:E2:12:DT:H72	2.48	0.44
50:E3:7:DT:C2'	50:E3:8:DT:H72	2.48	0.44
53:E7:9:DT:C2'	53:E7:10:DT:H72	2.48	0.44
54:E8:12:DT:C2'	54:E8:13:DT:H72	2.48	0.44
58:ED:26:DT:C2'	58:ED:27:DT:H72	2.48	0.44
60:F2:31:DT:C6	60:F2:32:DT:H72	2.51	0.44
62:F5:28:DT:C2'	62:F5:29:DT:H72	2.48	0.44
67:FA:10:DT:C2'	67:FA:11:DT:H72	2.48	0.44
68:FC:2:DA:H2'	68:FC:3:DT:H72	2.00	0.44
68:FC:3:DT:C2'	68:FC:4:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:G1:8:DG:H1'	70:G1:9:DA:H5'	1.98	0.44
76:G8:16:DT:C2'	76:G8:17:DT:H72	2.48	0.44
78:GA:10:DT:C2'	78:GA:11:DT:H72	2.48	0.44
83:H3:34:DA:H2'	83:H3:35:DT:H72	2.00	0.44
84:H5:15:DT:C2'	84:H5:16:DT:H72	2.48	0.44
86:H7:8:DT:C2'	86:H7:9:DT:H72	2.48	0.44
86:H7:9:DT:C2'	86:H7:10:DT:H72	2.48	0.44
89:HA:16:DT:C2'	89:HA:17:DT:H72	2.48	0.44
94:I3:25:DT:H72	107:J6:28:DT:C2'	2.48	0.44
94:I3:53:DT:H72	115:K2:23:DT:C2'	2.48	0.44
96:I6:7:DT:C2'	96:I6:8:DT:H72	2.48	0.44
103:J1:4:DG:H1'	103:J1:5:DA:H5'	1.97	0.44
105:J3:12:DT:C6	105:J3:13:DT:H72	2.51	0.44
105:J3:21:DT:H72	130:L7:49:DT:C2'	2.48	0.44
105:J3:26:DT:C2'	105:J3:27:DT:H72	2.48	0.44
106:J5:10:DT:C2'	106:J5:11:DT:H72	2.48	0.44
108:J7:43:DT:C2'	108:J7:44:DT:H72	2.48	0.44
111:JA:1:DT:C2'	111:JA:2:DT:H72	2.48	0.44
114:K1:13:DT:C6	114:K1:14:DT:H72	2.51	0.44
114:K1:22:DG:H1'	114:K1:23:DT:H5'	2.00	0.44
115:K2:12:DT:C2'	115:K2:13:DT:H72	2.48	0.44
119:K7:41:DT:C2'	119:K7:42:DT:H72	2.48	0.44
119:K7:42:DT:C2'	119:K7:43:DT:H72	2.48	0.44
122:KA:36:DT:C2'	122:KA:37:DT:H72	2.48	0.44
122:KA:49:DT:C2'	122:KA:50:DT:H72	2.48	0.44
125:L1:29:DG:H1'	125:L1:30:DT:H5'	2.00	0.44
125:L1:33:DG:H1'	125:L1:34:DA:H5'	1.98	0.44
126:L2:21:DT:C2'	126:L2:22:DT:H72	2.48	0.44
130:L7:2:DA:H2'	130:L7:3:DT:H72	2.00	0.44
133:LA:20:DT:C2'	133:LA:21:DT:H72	2.48	0.44
135:LD:7:DG:H1'	135:LD:8:DT:H5'	2.00	0.44
135:LD:15:DA:H2'	135:LD:16:DT:H72	2.00	0.44
136:M2:10:DT:C2'	136:M2:11:DT:H72	2.48	0.44
144:MC:22:DT:C2'	144:MC:23:DT:H72	2.48	0.44
145:MD:57:DA:H2'	145:MD:58:DT:H72	2.00	0.44
148:N5:33:DT:C2'	148:N5:34:DT:H72	2.48	0.44
149:N6:22:DT:C2'	149:N6:23:DT:H72	2.48	0.44
151:N8:13:DT:C2'	151:N8:14:DT:H72	2.48	0.44
154:NC:14:DA:H2'	154:NC:15:DT:H72	2.00	0.44
158:O5:43:DA:H2'	158:O5:44:DT:H72	2.00	0.44
160:O7:36:DG:H1'	160:O7:37:DA:H5'	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
160:O7:50:DT:C2'	160:O7:51:DT:H72	2.48	0.44
161:O8:45:DA:H2'	161:O8:46:DT:H72	2.00	0.44
166:P2:17:DT:C2'	166:P2:18:DT:H72	2.48	0.44
168:P5:12:DT:C2'	168:P5:13:DT:H72	2.48	0.44
171:P8:8:DT:C2'	171:P8:9:DT:H72	2.48	0.44
171:P8:28:DA:H2'	171:P8:29:DT:H72	2.00	0.44
172:P9:5:DT:C2'	172:P9:6:DT:H72	2.48	0.44
176:Q2:16:DT:C2'	176:Q2:17:DT:H72	2.48	0.44
177:Q3:12:DT:C6	177:Q3:13:DT:H72	2.51	0.44
180:Q8:8:DA:H2'	180:Q8:9:DT:H72	2.00	0.44
181:Q9:33:DT:C2'	181:Q9:34:DT:H72	2.48	0.44
184:QD:9:DA:H2'	184:QD:10:DT:H72	2.00	0.44
184:QD:10:DT:C2'	184:QD:11:DT:H72	2.48	0.44
186:R3:16:DT:C2'	186:R3:17:DT:H72	2.48	0.44
190:R9:20:DT:C2'	190:R9:21:DT:H72	2.48	0.44
190:R9:37:DT:C2'	190:R9:38:DT:H72	2.48	0.44
192:RC:29:DT:C2'	192:RC:30:DT:H72	2.48	0.44
194:S2:20:DA:H2'	194:S2:21:DT:H72	2.00	0.44
195:S3:26:DG:H1'	195:S3:27:DA:H5'	1.98	0.44
198:S8:9:DT:C2'	198:S8:10:DT:H72	2.48	0.44
198:S8:40:DT:C2'	198:S8:41:DT:H72	2.48	0.44
201:SC:3:DT:C2'	201:SC:4:DT:H72	2.48	0.44
209:TA:9:DG:H1'	209:TA:10:DA:H5'	1.98	0.44
211:TD:6:DT:C2'	211:TD:7:DT:H72	2.48	0.44
214:U5:39:DT:C2'	214:U5:40:DT:H72	2.48	0.44
214:U5:40:DT:C2'	214:U5:41:DT:H72	2.48	0.44
218:UA:3:DT:C2'	218:UA:4:DT:H72	2.48	0.44
222:V3:19:DT:C2'	222:V3:20:DT:H72	2.48	0.44
225:V8:13:DG:H1'	225:V8:14:DA:H5'	1.98	0.44
231:W5:29:DT:C2'	231:W5:30:DT:H72	2.48	0.44
232:W7:15:DA:H2'	232:W7:16:DT:H72	2.00	0.44
238:X9:16:DA:H2'	238:X9:17:DT:H72	2.00	0.44
2:A2:27:DT:C2'	2:A2:28:DT:H72	2.48	0.44
5:A5:13:DT:C2'	5:A5:14:DT:H72	2.48	0.44
9:A9:13:DA:H2'	9:A9:14:DT:H72	2.00	0.44
11:AB:1:DA:H2'	11:AB:2:DT:H72	2.00	0.44
11:AB:66:DT:C2'	11:AB:67:DT:H72	2.48	0.44
11:AB:107:DA:H2'	11:AB:108:DT:H72	2.00	0.44
11:AB:121:DT:C2'	11:AB:122:DT:H72	2.48	0.44
11:AB:131:DT:C2'	11:AB:132:DT:H72	2.48	0.44
11:AB:176:DT:C2'	11:AB:177:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:221:DT:C2'	11:AB:222:DT:H72	2.48	0.44
11:AB:281:DT:C2'	11:AB:282:DT:H72	2.48	0.44
11:AB:337:DT:C2'	11:AB:338:DT:H72	2.48	0.44
11:AB:484:DA:H2'	11:AB:485:DT:H72	2.00	0.44
11:AB:623:DG:H1'	11:AB:624:DT:H5'	2.00	0.44
11:AB:667:DT:C2'	11:AB:668:DT:H72	2.48	0.44
11:AB:698:DT:C6	11:AB:699:DT:H72	2.51	0.44
11:AB:974:DT:C6	11:AB:975:DT:H72	2.51	0.44
11:AB:975:DT:C2'	11:AB:976:DT:H72	2.48	0.44
11:AB:1106:DT:C2'	11:AB:1107:DT:H72	2.48	0.44
11:AB:1158:DT:C2'	11:AB:1159:DT:H72	2.48	0.44
11:AB:1257:DG:H1'	11:AB:1258:DT:H5'	2.00	0.44
11:AB:1260:DG:H1'	11:AB:1261:DA:H5'	1.98	0.44
11:AB:1341:DG:H1'	11:AB:1342:DT:H5'	2.00	0.44
11:AB:1350:DT:C2'	11:AB:1351:DT:H72	2.48	0.44
11:AB:1358:DA:H2'	11:AB:1359:DT:H72	2.00	0.44
11:AB:1360:DA:H2'	11:AB:1361:DT:H72	2.00	0.44
11:AB:1433:DG:H1'	11:AB:1434:DT:H5'	2.00	0.44
11:AB:1454:DT:C2'	11:AB:1455:DT:H72	2.48	0.44
11:AB:1461:DG:H1'	11:AB:1462:DT:H5'	2.00	0.44
11:AB:1463:DT:C2'	11:AB:1464:DT:H72	2.48	0.44
11:AB:1476:DT:C2'	11:AB:1477:DT:H72	2.48	0.44
11:AB:1486:DT:C2'	11:AB:1487:DT:H72	2.48	0.44
11:AB:1508:DT:C2'	11:AB:1509:DT:H72	2.48	0.44
11:AB:1550:DT:C2'	11:AB:1551:DT:H72	2.48	0.44
11:AB:1563:DT:C6	11:AB:1564:DT:H72	2.51	0.44
11:AB:1594:DT:C2'	11:AB:1595:DT:H72	2.48	0.44
11:AB:1697:DG:H1'	11:AB:1698:DT:H5'	2.00	0.44
11:AB:1711:DT:C2'	11:AB:1712:DT:H72	2.48	0.44
11:AB:1778:DT:C2'	11:AB:1779:DT:H72	2.48	0.44
11:AB:1878:DT:C2'	11:AB:1879:DT:H72	2.48	0.44
11:AB:2020:DT:C2'	11:AB:2021:DT:H72	2.48	0.44
11:AB:2042:DT:C2'	11:AB:2043:DT:H72	2.48	0.44
11:AB:2086:DT:C2'	11:AB:2087:DT:H72	2.48	0.44
11:AB:2125:DA:H2'	11:AB:2126:DT:H72	2.00	0.44
11:AB:2134:DT:C2'	11:AB:2135:DT:H72	2.48	0.44
11:AB:2197:DT:C2'	11:AB:2198:DT:H72	2.48	0.44
11:AB:2290:DA:H2'	11:AB:2291:DT:H72	2.00	0.44
11:AB:2334:DG:H1'	11:AB:2335:DT:H5'	2.00	0.44
11:AB:2337:DG:H1'	11:AB:2338:DA:H5'	1.98	0.44
11:AB:2377:DA:H2'	11:AB:2378:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2419:DT:C2'	11:AB:2420:DT:H72	2.48	0.44
11:AB:2429:DT:C2'	11:AB:2430:DT:H72	2.48	0.44
11:AB:2474:DT:C2'	11:AB:2475:DT:H72	2.48	0.44
11:AB:2517:DT:C6	11:AB:2518:DT:H72	2.51	0.44
11:AB:2566:DA:H2'	11:AB:2567:DT:H72	2.00	0.44
11:AB:2596:DT:C2'	11:AB:2597:DT:H72	2.48	0.44
11:AB:2641:DT:C2'	11:AB:2642:DT:H72	2.48	0.44
11:AB:2698:DG:H1'	11:AB:2699:DA:H5'	1.98	0.44
11:AB:2747:DA:H2'	11:AB:2748:DT:H72	2.00	0.44
11:AB:2782:DG:H1'	11:AB:2783:DT:H5'	2.00	0.44
11:AB:2797:DT:C2'	11:AB:2798:DT:H72	2.48	0.44
11:AB:2874:DT:C2'	11:AB:2875:DT:H72	2.48	0.44
11:AB:2904:DT:C2'	11:AB:2905:DT:H72	2.48	0.44
11:AB:3004:DT:C6	11:AB:3005:DT:H72	2.51	0.44
11:AB:3015:DT:C2'	11:AB:3016:DT:H72	2.48	0.44
11:AB:3095:DT:C2'	11:AB:3096:DT:H72	2.48	0.44
11:AB:3097:DG:H1'	11:AB:3098:DA:H5'	1.97	0.44
11:AB:3226:DA:H2'	11:AB:3227:DT:H72	2.00	0.44
11:AB:3238:DG:H1'	11:AB:3239:DA:H5'	1.97	0.44
11:AB:3257:DA:H2'	11:AB:3258:DT:H72	2.00	0.44
11:AB:3275:DA:H2'	11:AB:3276:DT:H72	2.00	0.44
11:AB:3304:DT:C2'	11:AB:3305:DT:H72	2.48	0.44
11:AB:3325:DG:H1'	11:AB:3326:DA:H5'	1.98	0.44
11:AB:3354:DT:C2'	11:AB:3355:DT:H72	2.48	0.44
11:AB:3385:DT:C2'	11:AB:3386:DT:H72	2.48	0.44
11:AB:3427:DT:C2'	11:AB:3428:DT:H72	2.48	0.44
11:AB:3433:DT:C2'	11:AB:3434:DT:H72	2.48	0.44
11:AB:3503:DT:C6	11:AB:3504:DT:H72	2.51	0.44
11:AB:3536:DT:C2'	11:AB:3537:DT:H72	2.48	0.44
11:AB:3670:DA:H2'	11:AB:3671:DT:H72	2.00	0.44
11:AB:3746:DT:C2'	11:AB:3747:DT:H72	2.48	0.44
11:AB:3747:DT:C2'	11:AB:3748:DT:H72	2.48	0.44
11:AB:3782:DG:H1'	11:AB:3783:DT:H5'	2.00	0.44
11:AB:3791:DT:C2'	11:AB:3792:DT:H72	2.48	0.44
11:AB:3868:DA:H2'	11:AB:3869:DT:H72	2.00	0.44
11:AB:3886:DT:C2'	11:AB:3887:DT:H72	2.48	0.44
11:AB:3906:DT:C6	11:AB:3907:DT:H72	2.51	0.44
11:AB:3966:DG:H1'	11:AB:3967:DT:H5'	2.00	0.44
11:AB:4036:DG:H1'	11:AB:4037:DT:H5'	2.00	0.44
11:AB:4079:DT:C2'	11:AB:4080:DT:H72	2.48	0.44
11:AB:4114:DG:H1'	11:AB:4115:DA:H5'	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4125:DT:C2'	11:AB:4126:DT:H72	2.48	0.44
11:AB:4223:DT:C2'	11:AB:4224:DT:H72	2.48	0.44
11:AB:4233:DG:H1'	11:AB:4234:DA:H5'	1.98	0.44
11:AB:4236:DT:C6	11:AB:4237:DT:H72	2.51	0.44
11:AB:4365:DG:H1'	11:AB:4366:DT:H5'	2.00	0.44
11:AB:4407:DT:C2'	11:AB:4408:DT:H72	2.48	0.44
11:AB:4491:DT:C2'	11:AB:4492:DT:H72	2.48	0.44
11:AB:4613:DT:C6	11:AB:4614:DT:H72	2.51	0.44
11:AB:4720:DT:C2'	11:AB:4721:DT:H72	2.48	0.44
11:AB:4796:DA:H2'	11:AB:4797:DT:H72	2.00	0.44
11:AB:4940:DT:C2'	11:AB:4941:DT:H72	2.48	0.44
11:AB:5031:DT:C2'	11:AB:5032:DT:H72	2.48	0.44
11:AB:5048:DG:H1'	11:AB:5049:DT:H5'	2.00	0.44
11:AB:5270:DT:C2'	11:AB:5271:DT:H72	2.48	0.44
11:AB:5330:DT:C2'	11:AB:5331:DT:H72	2.48	0.44
11:AB:5348:DT:C2'	11:AB:5349:DT:H72	2.48	0.44
11:AB:5384:DT:C6	11:AB:5385:DT:H72	2.51	0.44
11:AB:5428:DA:H2'	11:AB:5429:DT:H72	2.00	0.44
11:AB:5501:DT:C2'	11:AB:5502:DT:H72	2.48	0.44
11:AB:5570:DT:C2'	11:AB:5571:DT:H72	2.48	0.44
11:AB:5713:DT:C2'	11:AB:5714:DT:H72	2.48	0.44
11:AB:5752:DT:C2'	11:AB:5753:DT:H72	2.48	0.44
11:AB:5855:DT:C2'	11:AB:5856:DT:H72	2.48	0.44
11:AB:5952:DT:C2'	11:AB:5953:DT:H72	2.48	0.44
11:AB:6204:DT:C2'	11:AB:6205:DT:H72	2.48	0.44
11:AB:6206:DT:C2'	11:AB:6207:DT:H72	2.48	0.44
11:AB:6220:DT:C2'	11:AB:6221:DT:H72	2.48	0.44
11:AB:6267:DA:H2'	11:AB:6268:DT:H72	2.00	0.44
11:AB:6280:DT:C2'	11:AB:6281:DT:H72	2.48	0.44
11:AB:6333:DT:C2'	11:AB:6334:DT:H72	2.48	0.44
11:AB:6423:DT:C2'	11:AB:6424:DT:H72	2.48	0.44
11:AB:6512:DT:C2'	11:AB:6513:DT:H72	2.48	0.44
11:AB:6603:DT:C2'	11:AB:6604:DT:H72	2.48	0.44
11:AB:6717:DG:H1'	11:AB:6718:DT:H5'	2.00	0.44
11:AB:6724:DG:H1'	11:AB:6725:DT:H5'	2.00	0.44
11:AB:6758:DT:C2'	11:AB:6759:DT:H72	2.48	0.44
11:AB:6778:DA:H2'	11:AB:6779:DT:H72	2.00	0.44
11:AB:6853:DA:H2'	11:AB:6854:DT:H72	2.00	0.44
11:AB:6878:DG:H1'	11:AB:6879:DT:H5'	2.00	0.44
11:AB:6990:DT:C2'	11:AB:6991:DT:H72	2.48	0.44
11:AB:7060:DT:C2'	11:AB:7061:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:7132:DT:C2'	11:AB:7133:DT:H72	2.48	0.44
11:AB:7220:DT:C2'	11:AB:7221:DT:H72	2.48	0.44
13:AD:38:DG:H1'	13:AD:39:DT:H5'	2.00	0.44
16:B3:19:DT:C2'	16:B3:20:DT:H72	2.48	0.44
18:B5:21:DT:C2'	156:O2:22:DT:H72	2.48	0.44
18:B5:27:DT:C2'	18:B5:28:DT:H72	2.48	0.44
20:B7:5:DT:C2'	20:B7:6:DT:H72	2.48	0.44
22:B9:35:DT:C2'	228:VC:8:DT:H72	2.48	0.44
23:BA:5:DG:H1'	23:BA:6:DT:H5'	2.00	0.44
23:BA:6:DT:C2'	23:BA:7:DT:H72	2.48	0.44
24:BC:17:DA:H2'	24:BC:18:DT:H72	2.00	0.44
26:C1:6:DA:H2'	26:C1:7:DT:H72	2.00	0.44
28:C3:8:DG:H1'	28:C3:9:DT:H5'	2.00	0.44
28:C3:11:DA:H2'	28:C3:12:DT:H72	2.00	0.44
30:C6:15:DT:H72	43:D8:42:DT:C2'	2.48	0.44
30:C6:20:DT:C2'	30:C6:21:DT:H72	2.48	0.44
31:C7:4:DT:C2'	31:C7:5:DT:H72	2.48	0.44
32:C8:13:DT:C2'	32:C8:14:DT:H72	2.48	0.44
32:C8:51:DT:C2'	32:C8:52:DT:H72	2.48	0.44
33:C9:26:DT:C2'	33:C9:27:DT:H72	2.48	0.44
36:CD:3:DG:H1'	36:CD:4:DA:H5'	1.98	0.44
39:D3:12:DT:H72	202:SD:13:DT:C2'	2.48	0.44
39:D3:18:DA:H2'	103:J1:22:DT:H72	2.00	0.44
40:D5:20:DA:H2'	40:D5:21:DT:H72	2.00	0.44
43:D8:2:DA:H2'	43:D8:3:DT:H72	2.00	0.44
49:E2:15:DT:C6	49:E2:16:DT:H72	2.51	0.44
52:E6:14:DA:H2'	71:G2:14:DT:H72	2.00	0.44
53:E7:21:DT:C2'	53:E7:22:DT:H72	2.48	0.44
55:E9:9:DT:C2'	55:E9:10:DT:H72	2.48	0.44
56:EA:13:DT:C2'	56:EA:14:DT:H72	2.48	0.44
62:F5:9:DT:C6	62:F5:10:DT:H72	2.51	0.44
62:F5:10:DT:C2'	93:I2:8:DT:H72	2.48	0.44
64:F7:24:DG:H1'	64:F7:25:DT:H5'	2.00	0.44
65:F8:7:DA:H2'	65:F8:8:DT:H72	2.00	0.44
67:FA:22:DG:H1'	67:FA:23:DT:H5'	2.00	0.44
67:FA:24:DT:C2'	67:FA:25:DT:H72	2.48	0.44
69:FD:21:DA:H2'	225:V8:18:DT:H72	2.00	0.44
74:G6:15:DT:C2'	74:G6:16:DT:H72	2.48	0.44
74:G6:18:DA:H2'	74:G6:19:DT:H72	2.00	0.44
74:G6:19:DT:C2'	74:G6:20:DT:H72	2.48	0.44
75:G7:24:DG:H1'	75:G7:25:DT:H5'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:H1:17:DA:H2'	81:H1:18:DT:H72	2.00	0.44
82:H2:10:DT:C2'	82:H2:11:DT:H72	2.48	0.44
82:H2:30:DG:H1'	82:H2:31:DA:H5'	1.98	0.44
83:H3:11:DG:H1'	83:H3:12:DA:H5'	1.97	0.44
84:H5:4:DT:C2'	84:H5:5:DT:H72	2.48	0.44
90:HC:27:DG:H1'	90:HC:28:DA:H5'	1.98	0.44
91:HD:8:DA:H2'	91:HD:9:DT:H72	2.00	0.44
91:HD:13:DT:C2'	91:HD:14:DT:H72	2.48	0.44
92:I1:9:DA:H2'	92:I1:10:DT:H72	2.00	0.44
93:I2:27:DT:C2'	93:I2:28:DT:H72	2.48	0.44
94:I3:50:DG:H1'	94:I3:51:DA:H5'	1.98	0.44
95:I5:18:DG:H1'	95:I5:19:DA:H5'	1.97	0.44
96:I6:6:DT:C2'	96:I6:7:DT:H72	2.48	0.44
102:ID:14:DT:C2'	102:ID:15:DT:H72	2.48	0.44
102:ID:15:DT:C2'	102:ID:16:DT:H72	2.48	0.44
107:J6:25:DA:H2'	107:J6:26:DT:H72	2.00	0.44
108:J7:2:DA:H2'	108:J7:3:DT:H72	2.00	0.44
108:J7:3:DT:C2'	108:J7:4:DT:H72	2.48	0.44
108:J7:53:DG:H1'	108:J7:54:DA:H5'	1.97	0.44
109:J8:22:DT:C2'	109:J8:23:DT:H72	2.48	0.44
114:K1:10:DG:H1'	114:K1:11:DA:H5'	1.98	0.44
114:K1:34:DA:H2'	114:K1:35:DT:H72	2.00	0.44
115:K2:22:DT:C2'	115:K2:23:DT:H72	2.48	0.44
115:K2:32:DT:C2'	115:K2:33:DT:H72	2.48	0.44
116:K3:12:DA:H2'	116:K3:13:DT:H72	2.00	0.44
119:K7:19:DT:H72	230:W3:14:DT:C2'	2.48	0.44
121:K9:16:DT:C2'	121:K9:17:DT:H72	2.48	0.44
124:KD:9:DT:C2'	124:KD:10:DT:H72	2.48	0.44
125:L1:22:DT:H72	195:S3:21:DA:H2'	2.00	0.44
125:L1:22:DT:C2'	125:L1:23:DT:H72	2.48	0.44
126:L2:9:DT:C2'	126:L2:10:DT:H72	2.48	0.44
127:L3:6:DT:C2'	127:L3:7:DT:H72	2.48	0.44
127:L3:13:DT:C2'	127:L3:14:DT:H72	2.48	0.44
129:L6:8:DT:C2'	129:L6:9:DT:H72	2.48	0.44
129:L6:9:DT:C2'	129:L6:10:DT:H72	2.48	0.44
129:L6:15:DA:H2'	129:L6:16:DT:H72	2.00	0.44
130:L7:16:DA:H2'	130:L7:17:DT:H72	2.00	0.44
130:L7:50:DT:C2'	130:L7:51:DT:H72	2.48	0.44
133:LA:9:DT:C6	133:LA:10:DT:H72	2.51	0.44
137:M3:20:DA:H2'	137:M3:21:DT:H72	2.00	0.44
141:M8:13:DA:H2'	141:M8:14:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
144:MC:14:DT:C2'	144:MC:15:DT:H72	2.48	0.44
144:MC:21:DT:C2'	144:MC:22:DT:H72	2.48	0.44
150:N7:15:DG:H1'	150:N7:16:DT:H5'	2.00	0.44
152:N9:43:DG:H1'	152:N9:44:DA:H5'	1.98	0.44
154:NC:15:DT:C2'	154:NC:16:DT:H72	2.48	0.44
154:NC:16:DT:C2'	154:NC:17:DT:H72	2.48	0.44
154:NC:18:DT:H72	189:R8:21:DT:C2'	2.48	0.44
159:O6:13:DA:H2'	159:O6:14:DT:H72	2.00	0.44
160:O7:24:DT:C2'	160:O7:25:DT:H72	2.48	0.44
161:O8:47:DT:C2'	161:O8:48:DT:H72	2.48	0.44
166:P2:15:DT:C6	166:P2:16:DT:H72	2.51	0.44
166:P2:25:DA:H2'	166:P2:26:DT:H72	2.00	0.44
171:P8:18:DT:C2'	171:P8:19:DT:H72	2.48	0.44
172:P9:9:DA:H2'	172:P9:10:DT:H72	2.00	0.44
172:P9:10:DT:C2'	172:P9:11:DT:H72	2.48	0.44
172:P9:15:DG:H1'	172:P9:16:DT:H5'	2.00	0.44
173:PA:22:DT:C2'	173:PA:23:DT:H72	2.48	0.44
173:PA:24:DT:C2'	173:PA:25:DT:H72	2.48	0.44
176:Q2:9:DA:H2'	176:Q2:10:DT:H72	2.00	0.44
177:Q3:26:DA:H2'	177:Q3:27:DT:H72	2.00	0.44
178:Q5:18:DT:C2'	178:Q5:19:DT:H72	2.48	0.44
181:Q9:8:DT:C2'	181:Q9:9:DT:H72	2.48	0.44
188:R7:10:DG:H1'	188:R7:11:DT:H5'	2.00	0.44
189:R8:13:DT:C2'	189:R8:14:DT:H72	2.48	0.44
202:SD:10:DG:H1'	202:SD:11:DA:H5'	1.98	0.44
211:TD:5:DT:C2'	211:TD:6:DT:H72	2.48	0.44
212:U2:8:DA:H2'	212:U2:9:DT:H72	2.00	0.44
214:U5:34:DA:H2'	214:U5:35:DT:H72	2.00	0.44
217:U9:13:DT:C2'	217:U9:14:DT:H72	2.48	0.44
220:UD:2:DT:C2'	220:UD:3:DT:H72	2.48	0.44
221:V2:10:DA:H2'	221:V2:11:DT:H72	2.00	0.44
221:V2:17:DT:C6	221:V2:18:DT:H72	2.51	0.44
223:V5:33:DT:C2'	223:V5:34:DT:H72	2.48	0.44
224:V7:18:DT:C2'	224:V7:19:DT:H72	2.48	0.44
228:VC:16:DA:H2'	228:VC:17:DT:H72	2.00	0.44
236:X5:19:DG:H1'	236:X5:20:DA:H5'	1.98	0.44
237:X7:10:DT:C2'	237:X7:11:DT:H72	2.48	0.44
238:X9:30:DA:H2'	238:X9:31:DT:H72	2.00	0.44
238:X9:55:DG:H1'	238:X9:56:DA:H5'	1.98	0.44
1:A1:4:DG:H1'	1:A1:5:DT:H5'	2.00	0.44
2:A2:28:DT:C2'	2:A2:29:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:10:DG:H1'	3:A3:11:DT:H5'	2.00	0.44
3:A3:16:DT:C2'	39:D3:5:DT:H72	2.48	0.44
4:A4:21:DA:H2'	4:A4:22:DT:H72	2.00	0.44
5:A5:12:DT:C2'	5:A5:13:DT:H72	2.48	0.44
6:A6:19:DT:C2'	6:A6:20:DT:H72	2.48	0.44
7:A7:26:DA:H2'	7:A7:27:DT:H72	2.00	0.44
8:A8:24:DG:H1'	8:A8:25:DT:H5'	2.00	0.44
10:AA:6:DA:H2'	10:AA:7:DT:H72	2.00	0.44
10:AA:16:DT:C2'	22:B9:29:DT:H72	2.48	0.44
11:AB:23:DA:H2'	11:AB:24:DT:H72	2.00	0.44
11:AB:27:DT:C2'	11:AB:28:DT:H72	2.48	0.44
11:AB:50:DA:H2'	11:AB:51:DT:H72	2.00	0.44
11:AB:64:DG:H1'	11:AB:65:DT:H5'	2.00	0.44
11:AB:108:DT:C2'	11:AB:109:DT:H72	2.48	0.44
11:AB:119:DT:C2'	11:AB:120:DT:H72	2.48	0.44
11:AB:142:DT:C2'	11:AB:143:DT:H72	2.48	0.44
11:AB:158:DA:H2'	11:AB:159:DT:H72	2.00	0.44
11:AB:177:DT:C2'	11:AB:178:DT:H72	2.48	0.44
11:AB:194:DT:C2'	11:AB:195:DT:H72	2.48	0.44
11:AB:608:DG:H1'	11:AB:609:DT:H5'	2.00	0.44
11:AB:652:DT:C2'	11:AB:653:DT:H72	2.48	0.44
11:AB:1107:DT:C2'	11:AB:1108:DT:H72	2.48	0.44
11:AB:1110:DA:H2'	11:AB:1111:DT:H72	2.00	0.44
11:AB:1121:DT:C2'	11:AB:1122:DT:H72	2.48	0.44
11:AB:1201:DA:H2'	11:AB:1202:DT:H72	2.00	0.44
11:AB:1264:DG:H1'	11:AB:1265:DT:H5'	2.00	0.44
11:AB:1301:DA:H2'	11:AB:1302:DT:H72	2.00	0.44
11:AB:1332:DT:C2'	11:AB:1333:DT:H72	2.48	0.44
11:AB:1427:DA:H2'	11:AB:1428:DT:H72	2.00	0.44
11:AB:1487:DT:C2'	11:AB:1488:DT:H72	2.48	0.44
11:AB:1507:DT:C2'	11:AB:1508:DT:H72	2.48	0.44
11:AB:1512:DT:C2'	11:AB:1513:DT:H72	2.48	0.44
11:AB:1584:DT:C2'	11:AB:1585:DT:H72	2.48	0.44
11:AB:1643:DG:H1'	11:AB:1644:DT:H5'	2.00	0.44
11:AB:1665:DA:H2'	11:AB:1666:DT:H72	2.00	0.44
11:AB:1710:DT:C2'	11:AB:1711:DT:H72	2.48	0.44
11:AB:1725:DT:C2'	11:AB:1726:DT:H72	2.48	0.44
11:AB:1747:DT:C2'	11:AB:1748:DT:H72	2.48	0.44
11:AB:1752:DA:H2'	11:AB:1753:DT:H72	2.00	0.44
11:AB:1853:DG:H1'	11:AB:1854:DT:H5'	2.00	0.44
11:AB:1876:DA:H2'	11:AB:1877:DT:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1958:DA:H2'	11:AB:1959:DT:H72	1.99	0.44
11:AB:1965:DT:C2'	11:AB:1966:DT:H72	2.48	0.44
11:AB:1990:DA:H2'	11:AB:1991:DT:H72	2.00	0.44
11:AB:2063:DG:H1'	11:AB:2064:DA:H5'	1.98	0.44
11:AB:2097:DT:C2'	11:AB:2098:DT:H72	2.48	0.44
11:AB:2148:DT:C2'	11:AB:2149:DT:H72	2.48	0.44
11:AB:2155:DT:C2'	11:AB:2156:DT:H72	2.48	0.44
11:AB:2173:DG:H1'	11:AB:2174:DT:H5'	2.00	0.44
11:AB:2191:DA:H2'	11:AB:2192:DT:H72	2.00	0.44
11:AB:2201:DT:C2'	11:AB:2202:DT:H72	2.48	0.44
11:AB:2226:DT:C2'	11:AB:2227:DT:H72	2.48	0.44
11:AB:2246:DA:H2'	11:AB:2247:DT:H72	2.00	0.44
11:AB:2322:DT:C2'	11:AB:2323:DT:H72	2.48	0.44
11:AB:2347:DT:C2'	11:AB:2348:DT:H72	2.48	0.44
11:AB:2348:DT:C2'	11:AB:2349:DT:H72	2.48	0.44
11:AB:2360:DG:H1'	11:AB:2361:DA:H5'	1.98	0.44
11:AB:2375:DA:H2'	11:AB:2376:DT:H72	2.00	0.44
11:AB:2405:DT:C2'	11:AB:2406:DT:H72	2.48	0.44
11:AB:2426:DT:C2'	11:AB:2427:DT:H72	2.48	0.44
11:AB:2469:DT:C2'	11:AB:2470:DT:H72	2.48	0.44
11:AB:2487:DA:H2'	11:AB:2488:DT:H72	2.00	0.44
11:AB:2526:DG:H1'	11:AB:2527:DT:H5'	2.00	0.44
11:AB:2548:DT:C2'	11:AB:2549:DT:H72	2.48	0.44
11:AB:2559:DT:C2'	11:AB:2560:DT:H72	2.48	0.44
11:AB:2560:DT:C2'	11:AB:2561:DT:H72	2.48	0.44
11:AB:2604:DG:H1'	11:AB:2605:DT:H5'	2.00	0.44
11:AB:2623:DA:H2'	11:AB:2624:DT:H72	2.00	0.44
11:AB:2671:DA:H2'	11:AB:2672:DT:H72	2.00	0.44
11:AB:2719:DA:H2'	11:AB:2720:DT:H72	2.00	0.44
11:AB:2761:DG:H1'	11:AB:2762:DT:H5'	2.00	0.44
11:AB:2786:DT:C2'	11:AB:2787:DT:H72	2.48	0.44
11:AB:2977:DG:H1'	11:AB:2978:DT:H5'	2.00	0.44
11:AB:3020:DG:H1'	11:AB:3021:DT:H5'	2.00	0.44
11:AB:3045:DT:C2'	11:AB:3046:DT:H72	2.48	0.44
11:AB:3157:DT:C2'	11:AB:3158:DT:H72	2.48	0.44
11:AB:3182:DT:C2'	11:AB:3183:DT:H72	2.48	0.44
11:AB:3209:DT:C2'	11:AB:3210:DT:H72	2.48	0.44
11:AB:3247:DG:H1'	11:AB:3248:DT:H5'	2.00	0.44
11:AB:3329:DT:C2'	11:AB:3330:DT:H72	2.48	0.44
11:AB:3404:DT:C2'	11:AB:3405:DT:H72	2.48	0.44
11:AB:3426:DT:C2'	11:AB:3427:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3504:DT:C2'	11:AB:3505:DT:H72	2.48	0.44
11:AB:3534:DT:C2'	11:AB:3535:DT:H72	2.48	0.44
11:AB:3548:DT:C2'	11:AB:3549:DT:H72	2.48	0.44
11:AB:3549:DT:C2'	11:AB:3550:DT:H72	2.48	0.44
11:AB:3659:DA:H2'	11:AB:3660:DT:H72	2.00	0.44
11:AB:3725:DT:C2'	11:AB:3726:DT:H72	2.48	0.44
11:AB:3751:DA:H2'	11:AB:3752:DT:H72	2.00	0.44
11:AB:3767:DT:C2'	11:AB:3768:DT:H72	2.48	0.44
11:AB:3788:DT:C2'	11:AB:3789:DT:H72	2.48	0.44
11:AB:3815:DA:H2'	11:AB:3816:DT:H72	2.00	0.44
11:AB:3885:DT:C2'	11:AB:3886:DT:H72	2.48	0.44
11:AB:3960:DG:H1'	11:AB:3961:DT:H5'	2.00	0.44
11:AB:3973:DA:H2'	11:AB:3974:DT:H72	2.00	0.44
11:AB:4150:DT:C2'	11:AB:4151:DT:H72	2.48	0.44
11:AB:4244:DT:C2'	11:AB:4245:DT:H72	2.48	0.44
11:AB:4327:DT:C6	11:AB:4328:DT:H72	2.51	0.44
11:AB:4408:DT:C2'	11:AB:4409:DT:H72	2.48	0.44
11:AB:4714:DT:C2'	11:AB:4715:DT:H72	2.48	0.44
11:AB:4738:DA:H2'	11:AB:4739:DT:H72	2.00	0.44
11:AB:4741:DT:C2'	11:AB:4742:DT:H72	2.48	0.44
11:AB:4751:DT:C2'	11:AB:4752:DT:H72	2.48	0.44
11:AB:5163:DT:C6	11:AB:5164:DT:H72	2.51	0.44
11:AB:5209:DT:C2'	11:AB:5210:DT:H72	2.48	0.44
11:AB:5229:DT:C2'	11:AB:5230:DT:H72	2.48	0.44
11:AB:5285:DA:H2'	11:AB:5286:DT:H72	2.00	0.44
11:AB:5329:DT:C2'	11:AB:5330:DT:H72	2.48	0.44
11:AB:5353:DA:H2'	11:AB:5354:DT:H72	2.00	0.44
11:AB:5385:DT:C2'	11:AB:5386:DT:H72	2.48	0.44
11:AB:5417:DA:H2'	11:AB:5418:DT:H72	2.00	0.44
11:AB:5419:DA:H2'	11:AB:5420:DT:H72	2.00	0.44
11:AB:5449:DT:C2'	11:AB:5450:DT:H72	2.48	0.44
11:AB:5462:DT:C2'	11:AB:5463:DT:H72	2.48	0.44
11:AB:5486:DA:H2'	11:AB:5487:DT:H72	2.00	0.44
11:AB:5558:DT:C2'	11:AB:5559:DT:H72	2.48	0.44
11:AB:5581:DT:C2'	11:AB:5582:DT:H72	2.48	0.44
11:AB:5644:DT:C2'	11:AB:5645:DT:H72	2.48	0.44
11:AB:5672:DT:C2'	11:AB:5673:DT:H72	2.48	0.44
11:AB:5684:DT:C2'	11:AB:5685:DT:H72	2.48	0.44
11:AB:5774:DT:C2'	11:AB:5775:DT:H72	2.48	0.44
11:AB:5834:DT:C2'	11:AB:5835:DT:H72	2.48	0.44
11:AB:5966:DT:C2'	11:AB:5967:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6020:DT:C2'	11:AB:6021:DT:H72	2.48	0.44
11:AB:6033:DT:C2'	11:AB:6034:DT:H72	2.48	0.44
11:AB:6148:DT:C2'	11:AB:6149:DT:H72	2.48	0.44
11:AB:6264:DT:C2'	11:AB:6265:DT:H72	2.48	0.44
11:AB:6293:DT:C2'	11:AB:6294:DT:H72	2.48	0.44
11:AB:6431:DG:H1'	11:AB:6432:DT:H5'	2.00	0.44
11:AB:6467:DT:C2'	11:AB:6468:DT:H72	2.48	0.44
11:AB:6479:DG:H1'	11:AB:6480:DT:H5'	2.00	0.44
11:AB:6482:DA:H2'	11:AB:6483:DT:H72	2.00	0.44
11:AB:6541:DA:H2'	11:AB:6542:DT:H72	2.00	0.44
11:AB:6582:DT:C2'	11:AB:6583:DT:H72	2.48	0.44
11:AB:6626:DA:H2'	11:AB:6627:DT:H72	2.00	0.44
11:AB:6638:DT:C2'	11:AB:6639:DT:H72	2.48	0.44
11:AB:6673:DT:C2'	11:AB:6674:DT:H72	2.48	0.44
11:AB:6700:DT:C2'	11:AB:6701:DT:H72	2.48	0.44
11:AB:6775:DG:H1'	11:AB:6776:DT:H5'	2.00	0.44
11:AB:6811:DA:H2'	11:AB:6812:DT:H72	2.00	0.44
11:AB:6850:DT:C2'	11:AB:6851:DT:H72	2.48	0.44
11:AB:6913:DT:C2'	11:AB:6914:DT:H72	2.48	0.44
11:AB:6928:DA:H2'	11:AB:6929:DT:H72	2.00	0.44
11:AB:6970:DA:H2'	11:AB:6971:DT:H72	2.00	0.44
11:AB:6994:DT:C2'	11:AB:6995:DT:H72	2.48	0.44
11:AB:7004:DG:H1'	11:AB:7005:DT:H5'	2.00	0.44
11:AB:7102:DG:H1'	11:AB:7103:DT:H5'	2.00	0.44
19:B6:6:DA:H2'	19:B6:7:DT:H72	2.00	0.44
19:B6:20:DA:H2'	19:B6:21:DT:H72	2.00	0.44
23:BA:13:DA:H2'	23:BA:14:DT:H72	2.00	0.44
25:BD:17:DG:H1'	25:BD:18:DT:H5'	2.00	0.44
30:C6:27:DT:C2'	30:C6:28:DT:H72	2.48	0.44
31:C7:25:DA:H2'	31:C7:26:DT:H72	2.00	0.44
32:C8:50:DT:C2'	32:C8:51:DT:H72	2.48	0.44
37:D1:6:DA:H2'	37:D1:7:DT:H72	2.00	0.44
40:D5:21:DT:C2'	40:D5:22:DT:H72	2.48	0.44
49:E2:40:DG:H1'	49:E2:41:DA:H5'	1.98	0.44
54:E8:16:DA:H2'	109:J8:22:DT:H72	2.00	0.44
54:E8:17:DT:H72	109:J8:21:DT:C2'	2.48	0.44
55:E9:28:DT:H5'	80:GD:13:DG:H1'	2.00	0.44
59:F1:5:DA:H2'	59:F1:6:DT:H72	2.00	0.44
60:F2:8:DT:C2'	60:F2:9:DT:H72	2.48	0.44
74:G6:14:DT:C2'	74:G6:15:DT:H72	2.48	0.44
77:G9:2:DT:C2'	77:G9:3:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:GA:8:DG:H1'	78:GA:9:DT:H5'	2.00	0.44
80:GD:7:DT:C2'	80:GD:8:DT:H72	2.48	0.44
89:HA:6:DT:C2'	89:HA:7:DT:H72	2.48	0.44
89:HA:30:DA:H2'	89:HA:31:DT:H72	2.00	0.44
95:I5:5:DT:C2'	95:I5:6:DT:H72	2.48	0.44
95:I5:35:DT:C2'	138:M5:15:DT:H72	2.48	0.44
96:I6:1:DT:C2'	96:I6:2:DT:H72	2.48	0.44
96:I6:12:DT:C2'	96:I6:13:DT:H72	2.48	0.44
98:I8:22:DA:H2'	98:I8:23:DT:H72	2.00	0.44
101:IC:15:DA:H2'	101:IC:16:DT:H72	2.00	0.44
102:ID:32:DG:H1'	102:ID:33:DT:H5'	2.00	0.44
105:J3:28:DT:H72	235:WD:13:DT:C2'	2.48	0.44
107:J6:36:DT:H72	165:OD:21:DA:H2'	2.00	0.44
107:J6:41:DG:H1'	107:J6:42:DT:H5'	2.00	0.44
108:J7:13:DT:C2'	108:J7:14:DT:H72	2.48	0.44
108:J7:17:DT:C2'	108:J7:18:DT:H72	2.48	0.44
112:JC:18:DA:H2'	112:JC:19:DT:H72	2.00	0.44
114:K1:2:DA:H2'	114:K1:3:DT:H72	2.00	0.44
114:K1:6:DA:H2'	114:K1:7:DT:H72	2.00	0.44
115:K2:13:DT:C2'	115:K2:14:DT:H72	2.48	0.44
117:K5:15:DT:C2'	117:K5:16:DT:H72	2.48	0.44
119:K7:1:DG:H1'	119:K7:2:DA:H5'	1.98	0.44
122:KA:7:DT:C2'	209:TA:19:DT:H72	2.48	0.44
124:KD:20:DA:H2'	124:KD:21:DT:H72	2.00	0.44
125:L1:1:DT:H72	137:M3:35:DA:H2'	1.99	0.44
126:L2:10:DT:C2'	126:L2:11:DT:H72	2.48	0.44
130:L7:44:DA:H2'	130:L7:45:DT:H72	2.00	0.44
132:L9:7:DA:H2'	132:L9:8:DT:H72	2.00	0.44
133:LA:1:DT:H72	227:VA:29:DA:H2'	2.00	0.44
133:LA:3:DG:H1'	133:LA:4:DT:H5'	2.00	0.44
136:M2:2:DT:C2'	136:M2:3:DT:H72	2.48	0.44
136:M2:20:DA:H2'	136:M2:21:DT:H72	2.00	0.44
140:M7:10:DT:C2'	206:T7:11:DT:H72	2.48	0.44
142:M9:12:DT:C2'	142:M9:13:DT:H72	2.48	0.44
142:M9:22:DT:C2'	142:M9:23:DT:H72	2.48	0.44
145:MD:20:DA:H2'	145:MD:21:DT:H72	2.00	0.44
152:N9:16:DA:H2'	152:N9:17:DT:H72	1.99	0.44
152:N9:20:DT:C2'	152:N9:21:DT:H72	2.48	0.44
156:O2:1:DT:H72	166:P2:16:DT:C2'	2.48	0.44
158:O5:12:DA:H2'	158:O5:13:DT:H72	2.00	0.44
161:O8:24:DT:C2'	161:O8:25:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
165:OD:30:DA:H2'	165:OD:31:DT:H72	2.00	0.44
171:P8:21:DT:C2'	171:P8:22:DT:H72	2.48	0.44
172:P9:12:DT:C2'	172:P9:13:DT:H72	2.48	0.44
173:PA:23:DT:C2'	173:PA:24:DT:H72	2.48	0.44
178:Q5:32:DT:C2'	178:Q5:33:DT:H72	2.48	0.44
178:Q5:39:DG:H1'	178:Q5:40:DA:H5'	1.98	0.44
179:Q7:10:DT:C2'	179:Q7:11:DT:H72	2.48	0.44
181:Q9:34:DT:C2'	181:Q9:35:DT:H72	2.48	0.44
181:Q9:35:DT:C2'	181:Q9:36:DT:H72	2.48	0.44
184:QD:12:DT:C2'	184:QD:13:DT:H72	2.48	0.44
184:QD:18:DA:H2'	184:QD:19:DT:H72	2.00	0.44
185:R2:1:DT:H72	198:S8:31:DT:C2'	2.48	0.44
191:RA:28:DT:C2'	191:RA:29:DT:H72	2.48	0.44
195:S3:12:DT:C2'	195:S3:13:DT:H72	2.48	0.44
198:S8:27:DG:H1'	198:S8:28:DA:H5'	1.98	0.44
200:SA:23:DT:C2'	200:SA:24:DT:H72	2.48	0.44
204:T3:32:DT:C2'	204:T3:33:DT:H72	2.48	0.44
206:T7:7:DG:H1'	206:T7:8:DA:H5'	1.98	0.44
207:T8:23:DG:H1'	207:T8:24:DT:H5'	2.00	0.44
211:TD:4:DA:H2'	211:TD:5:DT:H72	2.00	0.44
211:TD:13:DG:H1'	211:TD:14:DT:H5'	2.00	0.44
211:TD:18:DT:C2'	211:TD:19:DT:H72	2.48	0.44
212:U2:13:DG:H1'	212:U2:14:DA:H5'	1.98	0.44
215:U7:14:DG:H1'	215:U7:15:DT:H5'	2.00	0.44
219:UC:15:DT:C2'	219:UC:16:DT:H72	2.48	0.44
223:V5:40:DT:C2'	223:V5:41:DT:H72	2.48	0.44
225:V8:7:DA:H2'	225:V8:8:DT:H72	2.00	0.44
229:VD:8:DG:H1'	229:VD:9:DA:H5'	1.98	0.44
231:W5:9:DT:C2'	231:W5:10:DT:H72	2.48	0.44
231:W5:10:DT:C2'	231:W5:11:DT:H72	2.48	0.44
232:W7:26:DT:C2'	232:W7:27:DT:H72	2.48	0.44
238:X9:46:DT:C2'	238:X9:47:DT:H72	2.48	0.44
4:A4:24:DA:H2'	67:FA:8:DT:H72	2.00	0.44
4:A4:29:DT:C2'	4:A4:30:DT:H72	2.48	0.44
5:A5:20:DT:C2'	5:A5:21:DT:H72	2.48	0.44
6:A6:24:DT:C2'	6:A6:25:DT:H72	2.48	0.44
11:AB:73:DA:H2'	11:AB:74:DT:H72	2.00	0.44
11:AB:130:DT:C2'	11:AB:131:DT:H72	2.48	0.44
11:AB:132:DT:C2'	11:AB:133:DT:H72	2.48	0.44
11:AB:172:DT:C2'	11:AB:173:DT:H72	2.48	0.44
11:AB:180:DG:H1'	11:AB:181:DT:H5'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:214:DT:C2'	11:AB:215:DT:H72	2.48	0.44
11:AB:375:DG:H1'	11:AB:376:DT:H5'	2.00	0.44
11:AB:875:DT:C2'	11:AB:876:DT:H72	2.48	0.44
11:AB:917:DT:C2'	11:AB:918:DT:H72	2.48	0.44
11:AB:1205:DT:C2'	11:AB:1206:DT:H72	2.48	0.44
11:AB:1273:DT:C2'	11:AB:1274:DT:H72	2.48	0.44
11:AB:1323:DA:H2'	11:AB:1324:DT:H72	2.00	0.44
11:AB:1351:DT:C2'	11:AB:1352:DT:H72	2.48	0.44
11:AB:1371:DT:C2'	11:AB:1372:DT:H72	2.48	0.44
11:AB:1439:DT:C2'	11:AB:1440:DT:H72	2.48	0.44
11:AB:1575:DT:C2'	11:AB:1576:DT:H72	2.48	0.44
11:AB:1584:DT:H72	11:AB:6121:DT:C2'	2.48	0.44
11:AB:1618:DA:H2'	11:AB:1619:DT:H72	2.00	0.44
11:AB:1635:DT:C2'	11:AB:1636:DT:H72	2.48	0.44
11:AB:1715:DA:H2'	11:AB:1716:DT:H72	2.00	0.44
11:AB:1741:DT:C2'	11:AB:1742:DT:H72	2.48	0.44
11:AB:1744:DT:C2'	11:AB:1745:DT:H72	2.48	0.44
11:AB:1831:DT:C2'	11:AB:1832:DT:H72	2.48	0.44
11:AB:1964:DT:C2'	11:AB:1965:DT:H72	2.48	0.44
11:AB:1969:DT:C2'	11:AB:1970:DT:H72	2.48	0.44
11:AB:2133:DT:C2'	11:AB:2134:DT:H72	2.48	0.44
11:AB:2158:DT:C2'	11:AB:2159:DT:H72	2.48	0.44
11:AB:2301:DG:H1'	11:AB:2302:DT:H5'	2.00	0.44
11:AB:2308:DA:H2'	11:AB:2309:DT:H72	2.00	0.44
11:AB:2401:DG:H1'	11:AB:2402:DT:H5'	2.00	0.44
11:AB:2444:DA:H2'	11:AB:2445:DT:H72	2.00	0.44
11:AB:2479:DG:H1'	11:AB:2480:DT:H5'	2.00	0.44
11:AB:2518:DT:C2'	11:AB:2519:DT:H72	2.48	0.44
11:AB:2564:DA:H2'	11:AB:2565:DT:H72	2.00	0.44
11:AB:2681:DT:C2'	11:AB:2682:DT:H72	2.48	0.44
11:AB:2749:DA:H2'	11:AB:2750:DT:H72	2.00	0.44
11:AB:2756:DT:C2'	11:AB:2757:DT:H72	2.48	0.44
11:AB:2816:DT:C2'	11:AB:2817:DT:H72	2.48	0.44
11:AB:2857:DG:H1'	11:AB:2858:DT:H5'	2.00	0.44
11:AB:2903:DA:H2'	11:AB:2904:DT:H72	2.00	0.44
11:AB:2957:DT:C2'	11:AB:2958:DT:H72	2.48	0.44
11:AB:3005:DT:C2'	11:AB:3006:DT:H72	2.48	0.44
11:AB:3059:DT:C2'	11:AB:3060:DT:H72	2.48	0.44
11:AB:3137:DA:H2'	11:AB:3138:DT:H72	2.00	0.44
11:AB:3161:DT:C2'	11:AB:3162:DT:H72	2.48	0.44
11:AB:3181:DG:H1'	11:AB:3182:DT:H5'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3308:DT:C2'	11:AB:3309:DT:H72	2.48	0.44
11:AB:3362:DT:C2'	11:AB:3363:DT:H72	2.48	0.44
11:AB:3389:DT:C2'	11:AB:3390:DT:H72	2.48	0.44
11:AB:3402:DA:H2'	11:AB:3403:DT:H72	2.00	0.44
11:AB:3476:DG:H1'	11:AB:3477:DT:H5'	2.00	0.44
11:AB:3550:DT:C2'	11:AB:3551:DT:H72	2.48	0.44
11:AB:3581:DA:H2'	11:AB:3582:DT:H72	2.00	0.44
11:AB:3639:DT:C2'	11:AB:3640:DT:H72	2.48	0.44
11:AB:3684:DG:H1'	11:AB:3685:DA:H5'	1.98	0.44
11:AB:3761:DT:C2'	11:AB:3762:DT:H72	2.48	0.44
11:AB:3881:DT:C2'	11:AB:3882:DT:H72	2.48	0.44
11:AB:3907:DT:C2'	11:AB:3908:DT:H72	2.48	0.44
11:AB:3979:DT:C2'	11:AB:3980:DT:H72	2.48	0.44
11:AB:4010:DA:H2'	11:AB:4011:DT:H72	2.00	0.44
11:AB:4057:DG:H1'	11:AB:4058:DT:H5'	2.00	0.44
11:AB:4112:DG:H1'	11:AB:4113:DT:H5'	2.00	0.44
11:AB:4165:DT:C2'	11:AB:4166:DT:H72	2.48	0.44
11:AB:4308:DA:H2'	11:AB:4309:DT:H72	2.00	0.44
11:AB:4409:DT:C2'	11:AB:4410:DT:H72	2.48	0.44
11:AB:4446:DA:H2'	11:AB:4447:DT:H72	2.00	0.44
11:AB:4579:DA:H2'	11:AB:4580:DT:H72	2.00	0.44
11:AB:4638:DG:H1'	11:AB:4639:DT:H5'	2.00	0.44
11:AB:4675:DA:H2'	11:AB:4676:DT:H72	2.00	0.44
11:AB:4871:DG:H1'	11:AB:4872:DT:H5'	2.00	0.44
11:AB:5014:DA:H2'	11:AB:5015:DT:H72	2.00	0.44
11:AB:5157:DA:H2'	11:AB:5158:DT:H72	2.00	0.44
11:AB:5265:DT:C2'	11:AB:5266:DT:H72	2.48	0.44
11:AB:5269:DT:C2'	11:AB:5270:DT:H72	2.48	0.44
11:AB:5328:DT:C2'	11:AB:5329:DT:H72	2.48	0.44
11:AB:5403:DA:H2'	11:AB:5404:DT:H72	2.00	0.44
11:AB:5465:DT:C2'	11:AB:5466:DT:H72	2.48	0.44
11:AB:5536:DA:H2'	11:AB:5537:DT:H72	2.00	0.44
11:AB:5564:DA:H2'	11:AB:5565:DT:H72	2.00	0.44
11:AB:5660:DG:H1'	11:AB:5661:DT:H5'	2.00	0.44
11:AB:5673:DT:C2'	11:AB:5674:DT:H72	2.48	0.44
11:AB:5712:DA:H2'	11:AB:5713:DT:H72	2.00	0.44
11:AB:5745:DT:C2'	11:AB:5746:DT:H72	2.48	0.44
11:AB:5766:DT:C2'	11:AB:5767:DT:H72	2.48	0.44
11:AB:5770:DT:C2'	11:AB:5771:DT:H72	2.48	0.44
11:AB:5970:DA:H2'	11:AB:5971:DT:H72	2.00	0.44
11:AB:6205:DT:C2'	11:AB:6206:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6209:DA:H2'	11:AB:6210:DT:H72	2.00	0.44
11:AB:6340:DG:H1'	11:AB:6341:DT:H5'	2.00	0.44
11:AB:6679:DT:C2'	11:AB:6680:DT:H72	2.48	0.44
11:AB:6710:DT:C2'	11:AB:6711:DT:H72	2.48	0.44
11:AB:6737:DT:C2'	11:AB:6738:DT:H72	2.48	0.44
11:AB:6757:DT:C2'	11:AB:6758:DT:H72	2.48	0.44
11:AB:6784:DA:H2'	11:AB:6785:DT:H72	2.00	0.44
11:AB:7056:DT:C2'	11:AB:7057:DT:H72	2.48	0.44
11:AB:7061:DT:C2'	11:AB:7062:DT:H72	2.48	0.44
11:AB:7151:DG:H1'	11:AB:7152:DT:H5'	2.00	0.44
12:AC:20:DG:H1'	12:AC:21:DA:H5'	1.98	0.44
13:AD:35:DT:C2'	13:AD:36:DT:H72	2.48	0.44
18:B5:35:DT:C2'	18:B5:36:DT:H72	2.48	0.44
19:B6:23:DT:C2'	19:B6:24:DT:H72	2.48	0.44
20:B7:14:DT:C2'	20:B7:15:DT:H72	2.48	0.44
33:C9:25:DA:H2'	33:C9:26:DT:H72	2.00	0.44
36:CD:8:DT:H72	69:FD:7:DA:H2'	2.00	0.44
39:D3:3:DG:H1'	39:D3:4:DT:H5'	2.00	0.44
40:D5:8:DA:H2'	40:D5:9:DT:H72	1.99	0.44
41:D6:27:DG:H1'	41:D6:28:DT:H5'	2.00	0.44
41:D6:40:DT:C2'	41:D6:41:DT:H72	2.48	0.44
44:D9:21:DA:H2'	209:TA:40:DT:H72	2.00	0.44
50:E3:14:DA:H2'	181:Q9:33:DT:H72	2.00	0.44
54:E8:24:DT:H5'	68:FC:7:DG:H1'	2.00	0.44
60:F2:18:DT:C2'	230:W3:22:DT:H72	2.48	0.44
61:F3:14:DA:H2'	220:UD:17:DT:H72	2.00	0.44
62:F5:12:DA:H2'	62:F5:13:DT:H72	2.00	0.44
64:F7:27:DT:C2'	64:F7:28:DT:H72	2.48	0.44
66:F9:20:DA:H2'	66:F9:21:DT:H72	2.00	0.44
68:FC:14:DG:H1'	68:FC:15:DT:H5'	2.00	0.44
69:FD:35:DA:H2'	69:FD:36:DT:H72	2.00	0.44
77:G9:6:DT:C2'	77:G9:7:DT:H72	2.48	0.44
77:G9:8:DG:H1'	77:G9:9:DA:H5'	1.98	0.44
79:GC:21:DG:H1'	79:GC:22:DT:H5'	2.00	0.44
81:H1:18:DT:C2'	81:H1:19:DT:H72	2.48	0.44
82:H2:28:DT:H5'	160:O7:5:DG:H1'	2.00	0.44
83:H3:8:DT:C2'	83:H3:9:DT:H72	2.48	0.44
85:H6:19:DT:C2'	85:H6:20:DT:H72	2.48	0.44
93:I2:32:DA:H2'	93:I2:33:DT:H72	2.00	0.44
94:I3:53:DT:C2'	94:I3:54:DT:H72	2.48	0.44
96:I6:8:DT:C2'	96:I6:9:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
98:I8:5:DT:C2'	98:I8:6:DT:H72	2.48	0.44
98:I8:10:DA:H2'	98:I8:11:DT:H72	2.00	0.44
101:IC:11:DA:H2'	101:IC:12:DT:H72	2.00	0.44
105:J3:20:DT:C2'	130:L7:50:DT:H72	2.48	0.44
105:J3:25:DT:C2'	105:J3:26:DT:H72	2.48	0.44
107:J6:5:DA:H2'	107:J6:6:DT:H72	2.00	0.44
109:J8:23:DT:C2'	109:J8:24:DT:H72	2.48	0.44
113:JD:22:DT:H72	190:R9:11:DA:H2'	2.00	0.44
114:K1:14:DT:C2'	137:M3:22:DT:H72	2.48	0.44
118:K6:19:DA:H2'	118:K6:20:DT:H72	2.00	0.44
119:K7:36:DA:H2'	119:K7:37:DT:H72	2.00	0.44
121:K9:17:DT:C2'	121:K9:18:DT:H72	2.48	0.44
122:KA:29:DT:C2'	122:KA:30:DT:H72	2.48	0.44
122:KA:51:DA:H2'	155:ND:1:DT:H72	2.00	0.44
127:L3:12:DA:H2'	127:L3:13:DT:H72	2.00	0.44
128:L5:1:DG:H1'	128:L5:2:DT:H5'	2.00	0.44
129:L6:7:DT:C2'	129:L6:8:DT:H72	2.48	0.44
130:L7:12:DA:H2'	130:L7:13:DT:H72	2.00	0.44
132:L9:2:DA:H2'	132:L9:3:DT:H72	2.00	0.44
136:M2:12:DT:C2'	136:M2:13:DT:H72	2.48	0.44
142:M9:13:DT:C2'	142:M9:14:DT:H72	2.48	0.44
145:MD:2:DA:H2'	145:MD:3:DT:H72	2.00	0.44
145:MD:29:DT:C2'	145:MD:30:DT:H72	2.48	0.44
147:N3:15:DT:C2'	147:N3:16:DT:H72	2.48	0.44
149:N6:9:DT:C2'	149:N6:10:DT:H72	2.48	0.44
152:N9:5:DT:C2'	152:N9:6:DT:H72	2.48	0.44
152:N9:11:DT:H72	208:T9:13:DA:H2'	2.00	0.44
154:NC:11:DA:H2'	154:NC:12:DT:H72	2.00	0.44
154:NC:38:DA:H2'	219:UC:21:DT:H72	2.00	0.44
159:O6:1:DT:H72	169:P6:13:DT:C2'	2.48	0.44
161:O8:5:DT:H72	183:QC:23:DA:H2'	2.00	0.44
161:O8:48:DT:C2'	161:O8:49:DT:H72	2.48	0.44
165:OD:57:DT:C2'	165:OD:58:DT:H72	2.48	0.44
172:P9:11:DT:C2'	172:P9:12:DT:H72	2.48	0.44
172:P9:23:DT:C2'	172:P9:24:DT:H72	2.48	0.44
174:PC:21:DT:C2'	174:PC:22:DT:H72	2.48	0.44
176:Q2:19:DA:H2'	176:Q2:20:DT:H72	2.00	0.44
189:R8:12:DT:C2'	189:R8:13:DT:H72	2.48	0.44
189:R8:24:DA:H2'	189:R8:25:DT:H72	2.00	0.44
190:R9:2:DT:C2'	190:R9:3:DT:H72	2.48	0.44
192:RC:17:DT:C2'	192:RC:18:DT:H72	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
194:S2:4:DG:H1'	198:S8:25:DT:H5'	2.00	0.44
196:S5:30:DT:C2'	196:S5:31:DT:H72	2.48	0.44
197:S7:18:DA:H2'	197:S7:19:DT:H72	2.00	0.44
200:SA:9:DA:H2'	200:SA:10:DT:H72	2.00	0.44
200:SA:17:DT:C2'	200:SA:18:DT:H72	2.48	0.44
203:T2:6:DT:C2'	203:T2:7:DT:H72	2.48	0.44
203:T2:22:DG:H1'	203:T2:23:DT:H5'	2.00	0.44
206:T7:21:DG:H1'	206:T7:22:DA:H5'	1.98	0.44
219:UC:11:DT:C2'	219:UC:12:DT:H72	2.48	0.44
222:V3:22:DA:H2'	222:V3:23:DT:H72	2.00	0.44
224:V7:13:DA:H2'	224:V7:14:DT:H72	2.00	0.44
228:VC:1:DA:H2'	228:VC:2:DT:H72	2.00	0.44
228:VC:26:DA:H2'	228:VC:27:DT:H72	2.00	0.44
232:W7:10:DT:C2'	232:W7:11:DT:H72	2.48	0.44
233:W8:6:DT:C2'	233:W8:7:DT:H72	2.48	0.44
237:X7:21:DA:H2'	237:X7:22:DT:H72	2.00	0.44
2:A2:9:DA:H2'	2:A2:10:DT:H72	2.00	0.43
3:A3:15:DA:H2'	3:A3:16:DT:H72	2.00	0.43
5:A5:1:DT:H72	138:M5:42:DA:H2'	1.99	0.43
5:A5:10:DA:H2'	5:A5:11:DT:H72	2.00	0.43
7:A7:12:DA:H2'	7:A7:13:DT:H72	2.00	0.43
7:A7:19:DT:C2'	7:A7:20:DT:H72	2.48	0.43
7:A7:39:DT:C2'	7:A7:40:DT:H72	2.48	0.43
9:A9:1:DT:H72	67:FA:21:DA:H2'	2.00	0.43
9:A9:1:DT:C2'	9:A9:2:DT:H72	2.48	0.43
11:AB:10:DT:C2'	11:AB:11:DT:H72	2.48	0.43
11:AB:16:DG:H1'	11:AB:17:DT:H5'	2.00	0.43
11:AB:94:DA:H2'	11:AB:95:DT:H72	2.00	0.43
11:AB:143:DT:C2'	11:AB:144:DT:H72	2.48	0.43
11:AB:223:DG:H1'	11:AB:224:DT:H5'	2.00	0.43
11:AB:290:DT:C2'	11:AB:291:DT:H72	2.48	0.43
11:AB:319:DA:H2'	11:AB:320:DT:H72	2.00	0.43
11:AB:376:DT:C2'	11:AB:377:DT:H72	2.48	0.43
11:AB:454:DG:H1'	11:AB:455:DT:H5'	2.00	0.43
11:AB:493:DT:C2'	11:AB:494:DT:H72	2.48	0.43
11:AB:568:DA:H2'	11:AB:569:DT:H72	2.00	0.43
11:AB:606:DA:H2'	11:AB:607:DT:H72	2.00	0.43
11:AB:609:DT:C2'	11:AB:610:DT:H72	2.48	0.43
11:AB:704:DG:H1'	11:AB:705:DT:H5'	2.00	0.43
11:AB:965:DT:C2'	11:AB:966:DT:H72	2.48	0.43
11:AB:1014:DA:H2'	11:AB:1015:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1129:DT:C2'	11:AB:1130:DT:H72	2.48	0.43
11:AB:1135:DA:H2'	11:AB:1136:DT:H72	2.00	0.43
11:AB:1156:DA:H2'	11:AB:1157:DT:H72	2.00	0.43
11:AB:1253:DA:H2'	11:AB:1254:DT:H72	2.00	0.43
11:AB:1374:DA:H2'	11:AB:1375:DT:H72	2.00	0.43
11:AB:1392:DT:C2'	11:AB:1393:DT:H72	2.48	0.43
11:AB:1554:DT:C2'	11:AB:1555:DT:H72	2.48	0.43
11:AB:1631:DT:C2'	11:AB:1632:DT:H72	2.48	0.43
11:AB:1652:DA:H2'	11:AB:1653:DT:H72	2.00	0.43
11:AB:1885:DT:C2'	11:AB:1886:DT:H72	2.48	0.43
11:AB:1952:DT:C2'	11:AB:1953:DT:H72	2.48	0.43
11:AB:1999:DA:H2'	11:AB:2000:DT:H72	2.00	0.43
11:AB:2046:DT:C2'	11:AB:2047:DT:H72	2.48	0.43
11:AB:2056:DG:H1'	11:AB:2057:DT:H5'	2.00	0.43
11:AB:2130:DA:H2'	11:AB:2131:DT:H72	2.00	0.43
11:AB:2154:DA:H2'	11:AB:2155:DT:H72	2.00	0.43
11:AB:2200:DA:H2'	11:AB:2201:DT:H72	2.00	0.43
11:AB:2233:DT:C2'	11:AB:2234:DT:H72	2.48	0.43
11:AB:2239:DG:H1'	11:AB:2240:DT:H5'	2.00	0.43
11:AB:2254:DT:C2'	11:AB:2255:DT:H72	2.48	0.43
11:AB:2257:DT:C2'	11:AB:2258:DT:H72	2.48	0.43
11:AB:2299:DT:C2'	11:AB:2300:DT:H72	2.48	0.43
11:AB:2335:DT:C2'	11:AB:2336:DT:H72	2.48	0.43
11:AB:2362:DA:H2'	11:AB:2363:DT:H72	2.00	0.43
11:AB:2365:DT:H72	11:AB:5436:DT:C2'	2.48	0.43
11:AB:2430:DT:C2'	11:AB:2431:DT:H72	2.48	0.43
11:AB:2440:DA:H2'	11:AB:2441:DT:H72	2.00	0.43
11:AB:2508:DT:C2'	11:AB:2509:DT:H72	2.48	0.43
11:AB:2552:DA:H2'	11:AB:2553:DT:H72	2.00	0.43
11:AB:2626:DT:C2'	11:AB:2627:DT:H72	2.48	0.43
11:AB:2737:DA:H2'	11:AB:2738:DT:H72	2.00	0.43
11:AB:2791:DA:H2'	11:AB:2792:DT:H72	2.00	0.43
11:AB:2890:DT:C2'	11:AB:2891:DT:H72	2.48	0.43
11:AB:2951:DG:H1'	11:AB:2952:DT:H5'	2.00	0.43
11:AB:2956:DG:H1'	11:AB:2957:DT:H5'	2.00	0.43
11:AB:2970:DA:H2'	11:AB:2971:DT:H72	2.00	0.43
11:AB:2978:DT:C2'	11:AB:2979:DT:H72	2.48	0.43
11:AB:3016:DT:C2'	11:AB:3017:DT:H72	2.48	0.43
11:AB:3026:DA:H2'	11:AB:3027:DT:H72	2.00	0.43
11:AB:3032:DT:C2'	11:AB:3033:DT:H72	2.48	0.43
11:AB:3090:DT:C2'	11:AB:3091:DT:H72	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3094:DA:H2'	11:AB:3095:DT:H72	2.00	0.43
11:AB:3200:DT:C2'	11:AB:3201:DT:H72	2.48	0.43
11:AB:3267:DA:H2'	11:AB:3268:DT:H72	2.00	0.43
11:AB:3287:DT:C2'	11:AB:3288:DT:H72	2.48	0.43
11:AB:3388:DA:H2'	11:AB:3389:DT:H72	2.00	0.43
11:AB:3410:DT:C2'	11:AB:3411:DT:H72	2.48	0.43
11:AB:3482:DA:H2'	11:AB:3483:DT:H72	2.00	0.43
11:AB:3518:DG:H1'	11:AB:3519:DT:H5'	2.00	0.43
11:AB:3533:DT:C2'	11:AB:3534:DT:H72	2.48	0.43
11:AB:3563:DT:C2'	11:AB:3564:DT:H72	2.48	0.43
11:AB:3677:DG:H1'	11:AB:3678:DT:H5'	2.00	0.43
11:AB:3787:DA:H2'	11:AB:3788:DT:H72	2.00	0.43
11:AB:3799:DA:H2'	11:AB:3800:DT:H72	2.00	0.43
11:AB:3800:DT:C2'	11:AB:3801:DT:H72	2.48	0.43
11:AB:3929:DA:H2'	11:AB:3930:DT:H72	2.00	0.43
11:AB:3961:DT:C2'	11:AB:3962:DT:H72	2.48	0.43
11:AB:4030:DT:C2'	11:AB:4031:DT:H72	2.48	0.43
11:AB:4157:DT:C2'	11:AB:4158:DT:H72	2.48	0.43
11:AB:4269:DT:C2'	11:AB:4270:DT:H72	2.48	0.43
11:AB:4293:DG:H1'	11:AB:4294:DT:H5'	2.00	0.43
11:AB:4300:DA:H2'	11:AB:4301:DT:H72	2.00	0.43
11:AB:4318:DT:C2'	11:AB:4319:DT:H72	2.48	0.43
11:AB:4423:DA:H2'	11:AB:4424:DT:H72	2.00	0.43
11:AB:4426:DT:C2'	11:AB:4427:DT:H72	2.48	0.43
11:AB:4458:DT:C2'	11:AB:4459:DT:H72	2.48	0.43
11:AB:4482:DG:H1'	11:AB:4483:DT:H5'	2.00	0.43
11:AB:4640:DT:C2'	11:AB:4641:DT:H72	2.48	0.43
11:AB:4697:DA:H2'	11:AB:4698:DT:H72	2.00	0.43
11:AB:4761:DA:H2'	11:AB:4762:DT:H72	2.00	0.43
11:AB:4874:DT:C2'	11:AB:4875:DT:H72	2.48	0.43
11:AB:4923:DT:C2'	11:AB:4924:DT:H72	2.48	0.43
11:AB:4977:DA:H2'	11:AB:4978:DT:H72	2.00	0.43
11:AB:5030:DT:C2'	11:AB:5031:DT:H72	2.48	0.43
11:AB:5306:DT:C2'	11:AB:5307:DT:H72	2.48	0.43
11:AB:5316:DA:H2'	11:AB:5317:DT:H72	2.00	0.43
11:AB:5341:DT:C2'	11:AB:5342:DT:H72	2.48	0.43
11:AB:5346:DG:H1'	11:AB:5347:DT:H5'	2.00	0.43
11:AB:5448:DG:H1'	11:AB:5449:DT:H5'	2.00	0.43
11:AB:5518:DA:H2'	11:AB:5519:DT:H72	2.00	0.43
11:AB:5573:DA:H2'	11:AB:5574:DT:H72	2.00	0.43
11:AB:5843:DT:C2'	11:AB:5844:DT:H72	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5856:DT:C2'	11:AB:5857:DT:H72	2.48	0.43
11:AB:5873:DA:H2'	11:AB:5874:DT:H72	2.00	0.43
11:AB:5943:DT:C2'	11:AB:5944:DT:H72	2.48	0.43
11:AB:5951:DA:H2'	11:AB:5952:DT:H72	2.00	0.43
11:AB:6149:DT:C2'	11:AB:6150:DT:H72	2.48	0.43
11:AB:6171:DA:H2'	11:AB:6172:DT:H72	2.00	0.43
11:AB:6197:DT:C2'	11:AB:6198:DT:H72	2.48	0.43
11:AB:6263:DA:H2'	11:AB:6264:DT:H72	2.00	0.43
11:AB:6365:DA:H2'	11:AB:6366:DT:H72	2.00	0.43
11:AB:6373:DA:H2'	11:AB:6374:DT:H72	2.00	0.43
11:AB:6393:DT:C2'	11:AB:6394:DT:H72	2.48	0.43
11:AB:6439:DG:H1'	11:AB:6440:DT:H5'	2.00	0.43
11:AB:6460:DG:H1'	11:AB:6461:DT:H5'	2.00	0.43
11:AB:6516:DA:H2'	11:AB:6517:DT:H72	2.00	0.43
11:AB:6524:DT:C2'	11:AB:6525:DT:H72	2.48	0.43
11:AB:6549:DT:C2'	11:AB:6550:DT:H72	2.48	0.43
11:AB:6596:DA:H2'	11:AB:6597:DT:H72	2.00	0.43
11:AB:6663:DA:H2'	11:AB:6664:DT:H72	2.00	0.43
11:AB:6666:DA:H2'	11:AB:6667:DT:H72	2.00	0.43
11:AB:6667:DT:C2'	11:AB:6668:DT:H72	2.48	0.43
11:AB:6715:DG:H1'	11:AB:6716:DT:H5'	2.00	0.43
11:AB:6770:DT:C2'	11:AB:6771:DT:H72	2.48	0.43
11:AB:6790:DT:C2'	11:AB:6791:DT:H72	2.48	0.43
11:AB:6864:DT:C2'	11:AB:6865:DT:H72	2.48	0.43
11:AB:6945:DT:C2'	11:AB:6946:DT:H72	2.48	0.43
11:AB:6989:DT:C2'	11:AB:6990:DT:H72	2.48	0.43
11:AB:6993:DT:C2'	11:AB:6994:DT:H72	2.48	0.43
11:AB:7035:DT:C2'	11:AB:7036:DT:H72	2.48	0.43
11:AB:7133:DT:C2'	11:AB:7134:DT:H72	2.48	0.43
11:AB:7183:DT:C2'	11:AB:7184:DT:H72	2.48	0.43
12:AC:13:DT:C2'	12:AC:14:DT:H72	2.48	0.43
13:AD:41:DT:C2'	13:AD:42:DT:H72	2.48	0.43
16:B3:14:DT:C2'	16:B3:15:DT:H72	2.48	0.43
18:B5:20:DT:C2'	18:B5:21:DT:H72	2.48	0.43
19:B6:3:DA:H2'	19:B6:4:DT:H72	2.00	0.43
21:B8:6:DT:C2'	21:B8:7:DT:H72	2.48	0.43
26:C1:12:DT:C2'	26:C1:13:DT:H72	2.48	0.43
28:C3:16:DA:H2'	204:T3:36:DT:H72	2.00	0.43
31:C7:27:DT:C2'	31:C7:28:DT:H72	2.48	0.43
34:CA:5:DA:H2'	34:CA:6:DT:H72	2.00	0.43
34:CA:13:DG:H1'	34:CA:14:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CC:24:DA:H2'	35:CC:25:DT:H72	2.00	0.43
40:D5:14:DA:H2'	40:D5:15:DT:H72	2.00	0.43
41:D6:21:DA:H2'	211:TD:22:DT:H72	2.00	0.43
47:DD:13:DA:H2'	47:DD:14:DT:H72	2.00	0.43
51:E5:14:DT:H5'	93:I2:21:DG:H1'	2.00	0.43
51:E5:30:DA:H2'	51:E5:31:DT:H72	2.00	0.43
53:E7:8:DA:H2'	53:E7:9:DT:H72	2.00	0.43
54:E8:24:DT:C2'	54:E8:25:DT:H72	2.48	0.43
55:E9:36:DT:C2'	55:E9:37:DT:H72	2.48	0.43
60:F2:17:DA:H2'	60:F2:18:DT:H72	2.00	0.43
62:F5:32:DT:H72	197:S7:17:DA:H2'	2.00	0.43
62:F5:37:DA:H2'	62:F5:38:DT:H72	2.00	0.43
67:FA:6:DG:H1'	67:FA:7:DT:H5'	2.00	0.43
70:G1:16:DG:H1'	70:G1:17:DT:H5'	2.00	0.43
74:G6:9:DG:H1'	74:G6:10:DT:H5'	2.00	0.43
75:G7:12:DT:H72	104:J2:35:DA:H2'	2.00	0.43
79:GC:15:DT:H72	98:I8:30:DA:H2'	2.00	0.43
80:GD:6:DA:H2'	80:GD:7:DT:H72	2.00	0.43
88:H9:8:DA:H2'	88:H9:9:DT:H72	2.00	0.43
94:I3:12:DA:H2'	94:I3:13:DT:H72	2.00	0.43
95:I5:4:DT:C2'	95:I5:5:DT:H72	2.48	0.43
95:I5:24:DA:H2'	95:I5:25:DT:H72	2.00	0.43
95:I5:34:DG:H1'	95:I5:35:DT:H5'	2.00	0.43
98:I8:19:DA:H2'	98:I8:20:DT:H72	2.00	0.43
103:J1:11:DT:C2'	103:J1:12:DT:H72	2.48	0.43
105:J3:7:DT:C2'	105:J3:8:DT:H72	2.48	0.43
108:J7:18:DT:C2'	108:J7:19:DT:H72	2.48	0.43
108:J7:29:DT:H72	222:V3:4:DA:H2'	2.00	0.43
109:J8:20:DA:H2'	109:J8:21:DT:H72	2.00	0.43
113:JD:15:DT:C2'	113:JD:16:DT:H72	2.48	0.43
115:K2:31:DT:C2'	115:K2:32:DT:H72	2.48	0.43
117:K5:5:DA:H2'	117:K5:6:DT:H72	2.00	0.43
117:K5:12:DT:H72	205:T5:9:DA:H2'	2.00	0.43
119:K7:23:DA:H2'	119:K7:24:DT:H72	2.00	0.43
120:K8:12:DT:H72	185:R2:7:DA:H2'	2.00	0.43
120:K8:19:DT:C2'	120:K8:20:DT:H72	2.48	0.43
121:K9:20:DG:H1'	200:SA:17:DT:H5'	2.00	0.43
122:KA:29:DT:H5'	124:KD:16:DG:H1'	2.00	0.43
122:KA:37:DT:C2'	122:KA:38:DT:H72	2.48	0.43
124:KD:21:DT:C2'	124:KD:22:DT:H72	2.48	0.43
125:L1:42:DA:H2'	125:L1:43:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
125:L1:46:DT:C2'	125:L1:47:DT:H72	2.48	0.43
126:L2:22:DT:C2'	126:L2:23:DT:H72	2.48	0.43
130:L7:53:DA:H2'	130:L7:54:DT:H72	2.00	0.43
138:M5:8:DA:H2'	138:M5:9:DT:H72	2.00	0.43
138:M5:11:DT:C2'	138:M5:12:DT:H72	2.48	0.43
138:M5:19:DA:H2'	138:M5:20:DT:H72	2.00	0.43
142:M9:17:DT:H72	173:PA:14:DA:H2'	2.00	0.43
145:MD:28:DA:H2'	145:MD:29:DT:H72	2.00	0.43
146:N2:10:DA:H2'	146:N2:11:DT:H72	2.00	0.43
147:N3:31:DA:H2'	147:N3:32:DT:H72	2.00	0.43
150:N7:7:DA:H2'	150:N7:8:DT:H72	2.00	0.43
157:O3:15:DA:H2'	157:O3:16:DT:H72	2.00	0.43
158:O5:22:DA:H2'	158:O5:23:DT:H72	2.00	0.43
164:OC:18:DT:C2'	164:OC:19:DT:H72	2.48	0.43
165:OD:46:DA:H2'	165:OD:47:DT:H72	2.00	0.43
166:P2:18:DT:C2'	166:P2:19:DT:H72	2.48	0.43
166:P2:22:DG:H1'	166:P2:23:DT:H5'	2.00	0.43
170:P7:21:DA:H2'	170:P7:22:DT:H72	2.00	0.43
172:P9:13:DT:C2'	172:P9:14:DT:H72	2.48	0.43
182:QA:26:DA:H2'	182:QA:27:DT:H72	2.00	0.43
183:QC:24:DT:C2'	183:QC:25:DT:H72	2.48	0.43
184:QD:11:DT:C2'	184:QD:12:DT:H72	2.48	0.43
184:QD:30:DA:H2'	184:QD:31:DT:H72	2.00	0.43
185:R2:21:DA:H2'	185:R2:22:DT:H72	2.00	0.43
192:RC:28:DG:H1'	192:RC:29:DT:H5'	2.00	0.43
193:RD:11:DA:H2'	193:RD:12:DT:H72	2.00	0.43
193:RD:17:DT:C2'	193:RD:18:DT:H72	2.48	0.43
195:S3:19:DT:C2'	195:S3:20:DT:H72	2.48	0.43
198:S8:12:DA:H2'	198:S8:13:DT:H72	2.00	0.43
198:S8:25:DT:C2'	198:S8:26:DT:H72	2.48	0.43
202:SD:21:DA:H2'	202:SD:22:DT:H72	2.00	0.43
203:T2:18:DT:C2'	203:T2:19:DT:H72	2.48	0.43
206:T7:46:DT:C2'	206:T7:47:DT:H72	2.48	0.43
209:TA:2:DA:H2'	209:TA:3:DT:H72	2.00	0.43
211:TD:1:DT:C2'	211:TD:2:DT:H72	2.48	0.43
224:V7:17:DA:H2'	224:V7:18:DT:H72	2.00	0.43
226:V9:32:DA:H2'	226:V9:33:DT:H72	2.00	0.43
230:W3:44:DA:H2'	230:W3:45:DT:H72	2.00	0.43
231:W5:28:DT:C2'	231:W5:29:DT:H72	2.48	0.43
238:X9:45:DA:H2'	238:X9:46:DT:H72	2.00	0.43
1:A1:12:DA:H2'	18:B5:1:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A4:28:DT:C2'	4:A4:29:DT:H72	2.48	0.43
5:A5:36:DT:H72	37:D1:14:DA:H2'	2.00	0.43
7:A7:28:DT:C2'	7:A7:29:DT:H72	2.48	0.43
7:A7:28:DT:H5'	118:K6:13:DG:H1'	2.00	0.43
9:A9:4:DT:C2'	9:A9:5:DT:H72	2.48	0.43
10:AA:15:DA:H2'	10:AA:16:DT:H72	2.00	0.43
11:AB:29:DG:H1'	11:AB:30:DT:H5'	2.00	0.43
11:AB:193:DA:H2'	11:AB:194:DT:H72	2.00	0.43
11:AB:330:DG:H1'	11:AB:331:DT:H5'	2.00	0.43
11:AB:346:DG:H1'	11:AB:347:DT:H5'	2.00	0.43
11:AB:412:DG:H1'	11:AB:413:DT:H5'	2.00	0.43
11:AB:631:DA:H2'	11:AB:632:DT:H72	2.00	0.43
11:AB:776:DT:C2'	11:AB:777:DT:H72	2.48	0.43
11:AB:793:DA:H2'	11:AB:794:DT:H72	2.00	0.43
11:AB:801:DG:H1'	11:AB:802:DT:H5'	2.00	0.43
11:AB:803:DT:C2'	11:AB:804:DT:H72	2.48	0.43
11:AB:955:DG:H1'	11:AB:956:DT:H5'	2.00	0.43
11:AB:1098:DA:H2'	11:AB:1099:DT:H72	2.00	0.43
11:AB:1219:DA:H2'	11:AB:1220:DT:H72	2.00	0.43
11:AB:1223:DT:C2'	11:AB:1224:DT:H72	2.48	0.43
11:AB:1297:DA:H2'	11:AB:1298:DT:H72	2.00	0.43
11:AB:1401:DA:H2'	11:AB:1402:DT:H72	2.00	0.43
11:AB:1408:DG:H1'	11:AB:1409:DT:H5'	2.00	0.43
11:AB:1489:DG:H1'	11:AB:1490:DT:H5'	2.00	0.43
11:AB:1538:DA:H2'	11:AB:1539:DT:H72	2.00	0.43
11:AB:1689:DT:C2'	11:AB:1690:DT:H72	2.48	0.43
11:AB:1719:DT:C2'	11:AB:1720:DT:H72	2.48	0.43
11:AB:1775:DT:C2'	11:AB:1776:DT:H72	2.48	0.43
11:AB:1793:DA:H2'	11:AB:1794:DT:H72	2.00	0.43
11:AB:1825:DG:H1'	11:AB:1826:DT:H5'	2.00	0.43
11:AB:2060:DT:C2'	11:AB:2061:DT:H72	2.48	0.43
11:AB:2104:DA:H2'	11:AB:2105:DT:H72	2.00	0.43
11:AB:2137:DT:C2'	11:AB:2138:DT:H72	2.48	0.43
11:AB:2174:DT:C2'	11:AB:2175:DT:H72	2.48	0.43
11:AB:2180:DA:H2'	11:AB:2181:DT:H72	2.00	0.43
11:AB:2260:DC:C6	11:AB:2261:DT:H72	2.54	0.43
11:AB:2341:DG:H1'	11:AB:2342:DT:H5'	2.00	0.43
11:AB:2395:DT:C2'	11:AB:2396:DT:H72	2.48	0.43
11:AB:2410:DA:H2'	11:AB:2411:DT:H72	2.00	0.43
11:AB:2459:DT:C2'	11:AB:2460:DT:H72	2.48	0.43
11:AB:2473:DA:H2'	11:AB:2474:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2492:DA:H2'	11:AB:2493:DT:H72	2.00	0.43
11:AB:2530:DT:C2'	11:AB:2531:DT:H72	2.48	0.43
11:AB:2547:DT:C2'	11:AB:2548:DT:H72	2.48	0.43
11:AB:2702:DA:H2'	11:AB:2703:DT:H72	2.00	0.43
11:AB:2752:DT:C2'	11:AB:2753:DT:H72	2.48	0.43
11:AB:2773:DT:C2'	11:AB:2774:DT:H72	2.48	0.43
11:AB:2796:DA:H2'	11:AB:2797:DT:H72	2.00	0.43
11:AB:2813:DA:H2'	11:AB:2814:DT:H72	2.00	0.43
11:AB:2849:DT:C2'	11:AB:2850:DT:H72	2.48	0.43
11:AB:2944:DG:H1'	11:AB:2945:DT:H5'	2.01	0.43
11:AB:2990:DA:H2'	11:AB:2991:DT:H72	2.00	0.43
11:AB:3061:DA:H2'	11:AB:3062:DT:H72	2.00	0.43
11:AB:3102:DA:H2'	11:AB:3103:DT:H72	2.00	0.43
11:AB:3179:DA:H2'	11:AB:3180:DT:H72	2.00	0.43
11:AB:3194:DT:C2'	11:AB:3195:DT:H72	2.48	0.43
11:AB:3282:DA:H2'	11:AB:3283:DT:H72	2.00	0.43
11:AB:3299:DA:H2'	11:AB:3300:DT:H72	2.00	0.43
11:AB:3303:DA:H2'	11:AB:3304:DT:H72	2.00	0.43
11:AB:3314:DG:H1'	11:AB:3315:DT:H5'	2.00	0.43
11:AB:3328:DA:H2'	11:AB:3329:DT:H72	2.00	0.43
11:AB:3340:DC:C6	11:AB:3341:DT:H72	2.54	0.43
11:AB:3395:DG:H1'	11:AB:3396:DT:H5'	2.00	0.43
11:AB:3396:DT:C2'	11:AB:3397:DT:H72	2.48	0.43
11:AB:3400:DA:H2'	11:AB:3401:DT:H72	2.00	0.43
11:AB:3431:DA:H2'	11:AB:3432:DT:H72	2.00	0.43
11:AB:3435:DT:C2'	11:AB:3436:DT:H72	2.48	0.43
11:AB:3598:DT:C2'	11:AB:3599:DT:H72	2.48	0.43
11:AB:3645:DC:C6	11:AB:3646:DT:H72	2.54	0.43
11:AB:3651:DT:H5'	11:AB:4658:DG:H1'	2.00	0.43
11:AB:3667:DT:C2'	11:AB:3668:DT:H72	2.48	0.43
11:AB:3827:DC:C6	11:AB:3828:DT:H72	2.54	0.43
11:AB:3848:DT:C2'	11:AB:3849:DT:H72	2.48	0.43
11:AB:3857:DA:H2'	11:AB:3858:DT:H72	2.00	0.43
11:AB:4054:DA:H2'	11:AB:4055:DT:H72	2.00	0.43
11:AB:4170:DT:C2'	11:AB:4171:DT:H72	2.48	0.43
11:AB:4222:DT:C2'	11:AB:4223:DT:H72	2.48	0.43
11:AB:4272:DA:H2'	11:AB:4273:DT:H72	2.00	0.43
11:AB:4273:DT:C2'	11:AB:4274:DT:H72	2.48	0.43
11:AB:4360:DC:C6	11:AB:4361:DT:H72	2.54	0.43
11:AB:4548:DC:C6	11:AB:4549:DT:H72	2.54	0.43
11:AB:4685:DG:H1'	11:AB:4686:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4884:DG:H1'	11:AB:4885:DT:H5'	2.00	0.43
11:AB:4917:DA:H2'	11:AB:4918:DT:H72	2.00	0.43
11:AB:4932:DA:H2'	11:AB:4933:DT:H72	2.00	0.43
11:AB:4939:DT:C2'	11:AB:4940:DT:H72	2.48	0.43
11:AB:5073:DA:H2'	11:AB:5074:DT:H72	2.00	0.43
11:AB:5117:DA:H2'	11:AB:5118:DT:H72	2.00	0.43
11:AB:5138:DA:H2'	11:AB:5139:DT:H72	2.00	0.43
11:AB:5172:DA:H2'	11:AB:5173:DT:H72	2.00	0.43
11:AB:5226:DA:H2'	11:AB:5227:DT:H72	2.00	0.43
11:AB:5267:DA:H2'	11:AB:5268:DT:H72	2.00	0.43
11:AB:5355:DT:C2'	11:AB:5356:DT:H72	2.48	0.43
11:AB:5362:DT:C2'	11:AB:5363:DT:H72	2.48	0.43
11:AB:5400:DA:H2'	11:AB:5401:DT:H72	2.00	0.43
11:AB:5466:DT:C2'	11:AB:5467:DT:H72	2.48	0.43
11:AB:5494:DA:H2'	11:AB:5495:DT:H72	2.00	0.43
11:AB:5544:DA:H2'	11:AB:5545:DT:H72	2.00	0.43
11:AB:5585:DC:C6	11:AB:5586:DT:H72	2.54	0.43
11:AB:5669:DA:H2'	11:AB:5670:DT:H72	2.00	0.43
11:AB:5914:DG:H1'	11:AB:5915:DT:H5'	2.00	0.43
11:AB:6037:DA:H2'	11:AB:6038:DT:H72	2.00	0.43
11:AB:6045:DA:H2'	11:AB:6046:DT:H72	2.00	0.43
11:AB:6080:DA:H2'	11:AB:6081:DT:H72	1.99	0.43
11:AB:6161:DT:C2'	11:AB:6162:DT:H72	2.48	0.43
11:AB:6256:DA:H2'	11:AB:6257:DT:H72	2.00	0.43
11:AB:6260:DT:C2'	11:AB:6261:DT:H72	2.48	0.43
11:AB:6292:DT:C2'	11:AB:6293:DT:H72	2.48	0.43
11:AB:6368:DT:C2'	11:AB:6369:DT:H72	2.48	0.43
11:AB:6416:DA:H2'	11:AB:6417:DT:H72	2.00	0.43
11:AB:6428:DA:H2'	11:AB:6429:DT:H72	2.00	0.43
11:AB:6560:DA:H2'	11:AB:6561:DT:H72	2.00	0.43
11:AB:6597:DT:C2'	11:AB:6598:DT:H72	2.48	0.43
11:AB:6634:DG:H1'	11:AB:6635:DT:H5'	2.00	0.43
11:AB:6635:DT:C2'	11:AB:6636:DT:H72	2.48	0.43
11:AB:6643:DA:H2'	11:AB:6644:DT:H72	2.00	0.43
11:AB:6766:DT:C2'	11:AB:6767:DT:H72	2.48	0.43
11:AB:6891:DA:H2'	11:AB:6892:DT:H72	2.00	0.43
11:AB:6959:DA:H2'	11:AB:6960:DT:H72	2.00	0.43
11:AB:6992:DG:H1'	11:AB:6993:DT:H5'	2.00	0.43
11:AB:7019:DG:H1'	11:AB:7020:DT:H5'	2.00	0.43
11:AB:7136:DG:H1'	11:AB:7137:DT:H5'	2.00	0.43
11:AB:7203:DA:H2'	11:AB:7204:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AD:7:DA:H2'	13:AD:8:DT:H72	2.00	0.43
18:B5:26:DA:H2'	18:B5:27:DT:H72	2.00	0.43
20:B7:21:DG:H1'	20:B7:22:DT:H5'	2.00	0.43
21:B8:23:DT:H72	139:M6:14:DA:H2'	2.00	0.43
31:C7:11:DT:C2'	31:C7:12:DT:H72	2.48	0.43
32:C8:49:DT:C2'	32:C8:50:DT:H72	2.48	0.43
34:CA:2:DA:H2'	34:CA:3:DT:H72	2.00	0.43
39:D3:16:DA:H2'	39:D3:17:DT:H72	2.00	0.43
46:DC:14:DG:H1'	46:DC:15:DT:H5'	2.00	0.43
48:E1:26:DG:H1'	48:E1:27:DT:H5'	2.00	0.43
50:E3:10:DA:H2'	50:E3:11:DT:H72	2.00	0.43
52:E6:9:DA:H2'	52:E6:10:DT:H72	2.00	0.43
55:E9:15:DA:H2'	55:E9:16:DT:H72	2.00	0.43
55:E9:34:DA:H2'	238:X9:32:DT:H72	2.00	0.43
56:EA:15:DG:H1'	56:EA:16:DT:H5'	2.00	0.43
66:F9:17:DT:C2'	66:F9:18:DT:H72	2.48	0.43
67:FA:9:DA:H2'	67:FA:10:DT:H72	2.00	0.43
69:FD:22:DT:H72	225:V8:17:DA:H2'	2.00	0.43
81:H1:21:DT:C2'	81:H1:22:DT:H72	2.48	0.43
82:H2:45:DT:C2'	82:H2:46:DT:H72	2.48	0.43
84:H5:27:DT:H5'	214:U5:7:DG:H1'	2.00	0.43
93:I2:3:DA:H2'	93:I2:4:DT:H72	2.00	0.43
94:I3:10:DA:H2'	165:OD:43:DT:H72	2.00	0.43
94:I3:23:DA:H2'	94:I3:24:DT:H72	2.00	0.43
105:J3:19:DT:C2'	105:J3:20:DT:H72	2.48	0.43
114:K1:36:DA:H2'	114:K1:37:DT:H72	2.00	0.43
116:K3:16:DG:H1'	116:K3:17:DA:H5'	1.98	0.43
120:K8:18:DA:H2'	120:K8:19:DT:H72	2.00	0.43
121:K9:14:DT:H72	145:MD:37:DA:H2'	2.00	0.43
123:KC:27:DT:C2'	123:KC:28:DT:H72	2.48	0.43
124:KD:8:DT:C2'	124:KD:9:DT:H72	2.48	0.43
125:L1:16:DA:H2'	125:L1:17:DT:H72	2.00	0.43
125:L1:23:DT:C2'	125:L1:24:DT:H72	2.48	0.43
128:L5:8:DT:C2'	128:L5:9:DT:H72	2.48	0.43
133:LA:4:DT:C2'	133:LA:5:DT:H72	2.48	0.43
136:M2:11:DT:C2'	136:M2:12:DT:H72	2.48	0.43
137:M3:27:DT:C2'	137:M3:28:DT:H72	2.48	0.43
141:M8:10:DA:H2'	141:M8:11:DT:H72	2.00	0.43
142:M9:2:DA:H2'	142:M9:3:DT:H72	2.00	0.43
143:MA:34:DG:H1'	190:R9:19:DT:H5'	2.00	0.43
145:MD:10:DT:H72	226:V9:11:DA:H2'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
149:N6:8:DA:H2'	149:N6:9:DT:H72	2.00	0.43
151:N8:12:DA:H2'	151:N8:13:DT:H72	2.00	0.43
154:NC:10:DG:H1'	174:PC:21:DT:H5'	2.00	0.43
157:O3:23:DT:C2'	157:O3:24:DT:H72	2.48	0.43
161:O8:41:DA:H2'	161:O8:42:DT:H72	2.00	0.43
167:P3:26:DA:H2'	167:P3:27:DT:H72	2.00	0.43
171:P8:25:DA:H2'	171:P8:26:DT:H72	2.00	0.43
181:Q9:27:DA:H2'	181:Q9:28:DT:H72	2.00	0.43
187:R5:14:DG:H1'	223:V5:35:DT:H5'	2.00	0.43
187:R5:31:DC:C6	187:R5:32:DT:H72	2.53	0.43
194:S2:8:DT:C2'	194:S2:9:DT:H72	2.48	0.43
198:S8:30:DA:H2'	198:S8:31:DT:H72	2.00	0.43
200:SA:22:DA:H2'	200:SA:23:DT:H72	2.00	0.43
201:SC:2:DA:H2'	201:SC:3:DT:H72	2.00	0.43
202:SD:28:DT:C2'	202:SD:29:DT:H72	2.48	0.43
204:T3:11:DT:C2'	204:T3:12:DT:H72	2.48	0.43
208:T9:11:DA:H2'	208:T9:12:DT:H72	2.00	0.43
211:TD:36:DA:H2'	211:TD:37:DT:H72	1.99	0.43
214:U5:1:DA:H2'	214:U5:2:DT:H72	2.00	0.43
214:U5:41:DT:C2'	214:U5:42:DT:H72	2.48	0.43
215:U7:21:DG:H1'	215:U7:22:DT:H5'	2.00	0.43
216:U8:9:DT:C2'	216:U8:10:DT:H72	2.48	0.43
218:UA:1:DT:C2'	218:UA:2:DT:H72	2.48	0.43
219:UC:22:DA:H2'	219:UC:23:DT:H72	2.00	0.43
221:V2:3:DA:H2'	221:V2:4:DT:H72	2.00	0.43
227:VA:24:DG:H1'	227:VA:25:DT:H5'	2.00	0.43
229:VD:19:DA:H2'	229:VD:20:DT:H72	2.00	0.43
230:W3:1:DA:H2'	230:W3:2:DT:H72	2.00	0.43
231:W5:14:DC:C6	231:W5:15:DT:H72	2.54	0.43
236:X5:22:DA:H2'	236:X5:23:DT:H72	2.00	0.43
238:X9:37:DG:H1'	238:X9:38:DT:H5'	2.00	0.43
8:A8:11:DA:H2'	8:A8:12:DT:H72	2.00	0.43
11:AB:181:DT:C2'	11:AB:182:DT:H72	2.48	0.43
11:AB:191:DC:C6	11:AB:192:DT:H72	2.54	0.43
11:AB:289:DG:H1'	11:AB:290:DT:H5'	2.00	0.43
11:AB:301:DA:H2'	11:AB:302:DT:H72	2.00	0.43
11:AB:310:DG:H1'	11:AB:311:DT:H5'	2.00	0.43
11:AB:381:DA:H2'	11:AB:382:DT:H72	2.00	0.43
11:AB:576:DC:C6	11:AB:577:DT:H72	2.54	0.43
11:AB:729:DA:H2'	11:AB:730:DT:H72	2.00	0.43
11:AB:739:DC:C6	11:AB:740:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:743:DC:C6	11:AB:744:DT:H72	2.54	0.43
11:AB:850:DA:H2'	11:AB:851:DT:H72	2.00	0.43
11:AB:1111:DT:C2'	11:AB:1112:DT:H72	2.48	0.43
11:AB:1120:DT:C2'	11:AB:1121:DT:H72	2.48	0.43
11:AB:1212:DT:C2'	11:AB:1213:DT:H72	2.48	0.43
11:AB:1232:DA:H2'	11:AB:1233:DT:H72	2.00	0.43
11:AB:1256:DG:H1'	11:AB:6301:DT:H5'	2.00	0.43
11:AB:1370:DC:C6	11:AB:1371:DT:H72	2.54	0.43
11:AB:1418:DG:H1'	11:AB:1419:DT:H5'	2.00	0.43
11:AB:1549:DA:H2'	11:AB:1550:DT:H72	2.00	0.43
11:AB:1683:DA:H2'	11:AB:1684:DT:H72	2.00	0.43
11:AB:1691:DC:C6	11:AB:1692:DT:H72	2.54	0.43
11:AB:1762:DA:H2'	11:AB:1763:DT:H72	2.00	0.43
11:AB:1779:DT:C2'	11:AB:1780:DT:H72	2.48	0.43
11:AB:1830:DA:H2'	11:AB:1831:DT:H72	2.00	0.43
11:AB:1837:DA:H2'	11:AB:1838:DT:H72	1.99	0.43
11:AB:1849:DC:C6	11:AB:1850:DT:H72	2.54	0.43
11:AB:1968:DC:C6	11:AB:1969:DT:H72	2.54	0.43
11:AB:1974:DA:H2'	11:AB:1975:DT:H72	2.00	0.43
11:AB:2085:DA:H2'	11:AB:2086:DT:H72	2.00	0.43
11:AB:2096:DG:H1'	11:AB:2097:DT:H5'	2.00	0.43
11:AB:2220:DA:H2'	11:AB:2221:DT:H72	2.00	0.43
11:AB:2256:DA:H2'	11:AB:2257:DT:H72	2.00	0.43
11:AB:2342:DT:C2'	11:AB:2343:DT:H72	2.48	0.43
11:AB:2404:DA:H2'	11:AB:2405:DT:H72	2.00	0.43
11:AB:2504:DA:H2'	11:AB:2505:DT:H72	2.00	0.43
11:AB:2546:DA:H2'	11:AB:2547:DT:H72	2.00	0.43
11:AB:2574:DA:H2'	11:AB:2575:DT:H72	2.00	0.43
11:AB:2595:DG:H1'	11:AB:2596:DT:H5'	2.00	0.43
11:AB:2618:DC:C6	11:AB:2619:DT:H72	2.54	0.43
11:AB:2735:DT:C2'	11:AB:2736:DT:H72	2.48	0.43
11:AB:2751:DA:H2'	11:AB:2752:DT:H72	2.00	0.43
11:AB:2838:DA:H2'	11:AB:2839:DT:H72	2.00	0.43
11:AB:2913:DA:H2'	11:AB:2914:DT:H72	2.00	0.43
11:AB:2992:DC:C6	11:AB:2993:DT:H72	2.54	0.43
11:AB:3152:DG:H1'	11:AB:3153:DT:H5'	2.00	0.43
11:AB:3173:DA:H2'	11:AB:3174:DT:H72	2.00	0.43
11:AB:3232:DG:H1'	11:AB:3233:DT:H5'	2.00	0.43
11:AB:3286:DA:H2'	11:AB:3287:DT:H72	2.00	0.43
11:AB:3344:DC:C6	11:AB:3345:DT:H72	2.54	0.43
11:AB:3409:DG:H1'	11:AB:3410:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3443:DC:C6	11:AB:3444:DT:H72	2.54	0.43
11:AB:3452:DC:C6	11:AB:3453:DT:H72	2.54	0.43
11:AB:3485:DC:C6	11:AB:3486:DT:H72	2.54	0.43
11:AB:3493:DC:C6	11:AB:3494:DT:H72	2.54	0.43
11:AB:3498:DC:C6	11:AB:3499:DT:H72	2.54	0.43
11:AB:3510:DT:C2'	11:AB:3511:DT:H72	2.48	0.43
11:AB:3515:DC:C6	11:AB:3516:DT:H72	2.54	0.43
11:AB:3525:DG:H1'	11:AB:3526:DT:H5'	2.00	0.43
11:AB:3526:DT:C2'	11:AB:3527:DT:H72	2.48	0.43
11:AB:3558:DA:H2'	11:AB:3559:DT:H72	2.00	0.43
11:AB:3710:DA:H2'	11:AB:3711:DT:H72	2.00	0.43
11:AB:3818:DG:H1'	11:AB:3819:DT:H5'	2.00	0.43
11:AB:3850:DA:H2'	11:AB:3851:DT:H72	2.00	0.43
11:AB:3988:DC:C6	11:AB:3989:DT:H72	2.54	0.43
11:AB:4029:DG:H1'	11:AB:4030:DT:H5'	2.00	0.43
11:AB:4243:DT:C2'	11:AB:4244:DT:H72	2.48	0.43
11:AB:4285:DT:C2'	11:AB:4286:DT:H72	2.48	0.43
11:AB:4344:DG:H1'	11:AB:4345:DT:H5'	2.00	0.43
11:AB:4432:DA:H2'	11:AB:4433:DT:H72	2.00	0.43
11:AB:4464:DC:C6	11:AB:4465:DT:H72	2.54	0.43
11:AB:4620:DA:H2'	11:AB:4621:DT:H72	2.00	0.43
11:AB:4679:DA:H2'	11:AB:4680:DT:H72	2.00	0.43
11:AB:4948:DC:C6	11:AB:4949:DT:H72	2.54	0.43
11:AB:5029:DG:H1'	11:AB:5030:DT:H5'	2.00	0.43
11:AB:5063:DC:C6	11:AB:5064:DT:H72	2.54	0.43
11:AB:5088:DA:H2'	11:AB:5089:DT:H72	2.00	0.43
11:AB:5124:DG:H1'	11:AB:5125:DT:H5'	2.00	0.43
11:AB:5206:DT:C2'	11:AB:5207:DT:H72	2.48	0.43
11:AB:5243:DC:C6	11:AB:5244:DT:H72	2.53	0.43
11:AB:5317:DT:C2'	11:AB:5318:DT:H72	2.48	0.43
11:AB:5459:DC:C6	11:AB:5460:DT:H72	2.54	0.43
11:AB:5580:DT:C2'	11:AB:5581:DT:H72	2.48	0.43
11:AB:5606:DC:C6	11:AB:5607:DT:H72	2.54	0.43
11:AB:5809:DT:C2'	11:AB:5810:DT:H72	2.48	0.43
11:AB:5905:DT:C2'	11:AB:5906:DT:H72	2.48	0.43
11:AB:5939:DC:C6	11:AB:5940:DT:H72	2.54	0.43
11:AB:6077:DC:C6	11:AB:6078:DT:H72	2.54	0.43
11:AB:6103:DC:C6	11:AB:6104:DT:H72	2.54	0.43
11:AB:6105:DC:C6	11:AB:6106:DT:H72	2.54	0.43
11:AB:6182:DC:C6	11:AB:6183:DT:H72	2.54	0.43
11:AB:6253:DC:C6	11:AB:6254:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6410:DC:C6	11:AB:6411:DT:H72	2.54	0.43
11:AB:6452:DA:H2'	11:AB:6453:DT:H72	2.00	0.43
11:AB:6503:DC:C6	11:AB:6504:DT:H72	2.54	0.43
11:AB:6507:DA:H2'	11:AB:6508:DT:H72	2.00	0.43
11:AB:6653:DG:H1'	11:AB:6654:DT:H5'	2.00	0.43
11:AB:6760:DG:H1'	11:AB:6761:DT:H5'	2.00	0.43
11:AB:6860:DC:C6	11:AB:6861:DT:H72	2.54	0.43
11:AB:6923:DG:H1'	11:AB:6924:DT:H5'	2.00	0.43
11:AB:7054:DC:C6	11:AB:7055:DT:H72	2.54	0.43
11:AB:7104:DT:C2'	11:AB:7105:DT:H72	2.48	0.43
11:AB:7157:DG:H1'	11:AB:7158:DT:H5'	2.00	0.43
11:AB:7191:DC:C6	11:AB:7192:DT:H72	2.54	0.43
12:AC:9:DA:H2'	12:AC:10:DT:H72	2.00	0.43
23:BA:21:DA:H2'	23:BA:22:DT:H72	2.00	0.43
23:BA:28:DT:C2'	23:BA:29:DT:H72	2.48	0.43
24:BC:31:DC:C6	24:BC:32:DT:H72	2.54	0.43
36:CD:21:DA:H2'	36:CD:22:DT:H72	2.00	0.43
37:D1:3:DA:H2'	37:D1:4:DT:H72	2.00	0.43
43:D8:11:DT:C2'	43:D8:12:DT:H72	2.48	0.43
43:D8:29:DC:C6	43:D8:30:DT:H72	2.54	0.43
45:DA:5:DA:H2'	45:DA:6:DT:H72	2.00	0.43
48:E1:19:DA:H2'	48:E1:20:DT:H72	2.00	0.43
49:E2:10:DA:H2'	49:E2:11:DT:H72	2.00	0.43
51:E5:20:DA:H2'	51:E5:21:DT:H72	2.00	0.43
52:E6:1:DT:H72	63:F6:13:DA:H2'	2.00	0.43
53:E7:1:DG:H1'	53:E7:2:DT:H5'	2.00	0.43
53:E7:14:DA:H2'	53:E7:15:DT:H72	2.00	0.43
55:E9:5:DT:C2'	55:E9:6:DT:H72	2.48	0.43
58:ED:37:DG:H1'	58:ED:38:DT:H5'	2.00	0.43
61:F3:4:DC:C6	61:F3:5:DT:H72	2.54	0.43
62:F5:5:DA:H2'	62:F5:6:DT:H72	2.00	0.43
70:G1:12:DA:H2'	70:G1:13:DT:H72	2.00	0.43
72:G3:15:DC:C6	72:G3:16:DT:H72	2.54	0.43
85:H6:14:DA:H2'	149:N6:31:DT:H72	2.00	0.43
86:H7:7:DA:H2'	86:H7:8:DT:H72	2.00	0.43
88:H9:4:DT:H72	190:R9:25:DA:H2'	2.00	0.43
89:HA:14:DA:H2'	89:HA:15:DT:H72	2.00	0.43
93:I2:46:DC:C6	93:I2:47:DT:H72	2.54	0.43
98:I8:26:DC:C6	98:I8:27:DT:H72	2.54	0.43
102:ID:6:DA:H2'	102:ID:7:DT:H72	2.00	0.43
102:ID:26:DG:H1'	102:ID:27:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
103:J1:15:DA:H2'	103:J1:16:DT:H72	2.00	0.43
105:J3:16:DC:C6	105:J3:17:DT:H72	2.54	0.43
109:J8:16:DA:H2'	109:J8:17:DT:H72	2.00	0.43
112:JC:15:DT:H72	151:N8:10:DA:H2'	2.00	0.43
114:K1:8:DC:C6	114:K1:9:DT:H72	2.54	0.43
117:K5:33:DA:H2'	117:K5:34:DT:H72	2.00	0.43
118:K6:7:DT:C2'	118:K6:8:DT:H72	2.48	0.43
119:K7:40:DC:C6	119:K7:41:DT:H72	2.54	0.43
122:KA:16:DA:H2'	122:KA:17:DT:H72	2.00	0.43
122:KA:21:DA:H2'	145:MD:45:DT:H72	2.00	0.43
126:L2:14:DA:H2'	126:L2:15:DT:H72	2.00	0.43
131:L8:12:DA:H2'	131:L8:13:DT:H72	2.00	0.43
134:LC:19:DG:H1'	134:LC:20:DT:H5'	2.00	0.43
147:N3:27:DT:C2'	147:N3:28:DT:H72	2.48	0.43
148:N5:32:DA:H2'	148:N5:33:DT:H72	2.00	0.43
151:N8:7:DC:C6	151:N8:8:DT:H72	2.54	0.43
152:N9:4:DG:H1'	152:N9:5:DT:H5'	2.00	0.43
156:O2:8:DC:C6	156:O2:9:DT:H72	2.54	0.43
157:O3:3:DA:H2'	157:O3:4:DT:H72	2.00	0.43
158:O5:39:DA:H2'	158:O5:40:DT:H72	2.00	0.43
160:O7:23:DT:C2'	160:O7:24:DT:H72	2.48	0.43
161:O8:3:DA:H2'	161:O8:4:DT:H72	1.99	0.43
173:PA:15:DA:H2'	173:PA:16:DT:H72	2.00	0.43
181:Q9:13:DA:H2'	181:Q9:14:DT:H72	2.00	0.43
181:Q9:31:DA:H2'	181:Q9:32:DT:H72	2.00	0.43
182:QA:6:DG:H1'	182:QA:7:DT:H5'	2.00	0.43
184:QD:14:DG:H1'	238:X9:11:DT:H5'	2.00	0.43
188:R7:18:DA:H2'	188:R7:19:DT:H72	2.00	0.43
188:R7:31:DC:C6	188:R7:32:DT:H72	2.54	0.43
194:S2:26:DT:C2'	194:S2:27:DT:H72	2.48	0.43
198:S8:39:DA:H2'	198:S8:40:DT:H72	2.00	0.43
204:T3:15:DC:C6	204:T3:16:DT:H72	2.54	0.43
207:T8:7:DG:H1'	207:T8:8:DT:H5'	2.00	0.43
207:T8:17:DC:C6	207:T8:18:DT:H72	2.54	0.43
209:TA:22:DC:C6	209:TA:23:DT:H72	2.54	0.43
210:TC:6:DC:C6	210:TC:7:DT:H72	2.54	0.43
212:U2:17:DC:C6	212:U2:18:DT:H72	2.54	0.43
213:U3:6:DG:H1'	213:U3:7:DT:H5'	2.00	0.43
215:U7:15:DT:C2'	215:U7:16:DT:H72	2.48	0.43
216:U8:21:DC:C6	216:U8:22:DT:H72	2.54	0.43
219:UC:18:DG:H1'	219:UC:19:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
222:V3:18:DA:H2'	222:V3:19:DT:H72	2.00	0.43
226:V9:2:DA:H2'	226:V9:3:DT:H72	2.00	0.43
230:W3:13:DG:H1'	230:W3:14:DT:H5'	2.00	0.43
232:W7:12:DG:H1'	232:W7:13:DT:H5'	2.00	0.43
238:X9:5:DC:C6	238:X9:6:DT:H72	2.54	0.43
11:AB:9:DG:H1'	11:AB:10:DT:H5'	2.00	0.43
11:AB:12:DA:H2'	11:AB:13:DT:H72	2.00	0.43
11:AB:102:DA:H2'	11:AB:103:DT:H72	2.00	0.43
11:AB:211:DC:C6	11:AB:212:DT:H72	2.54	0.43
11:AB:751:DG:H1'	11:AB:752:DT:H5'	2.00	0.43
11:AB:863:DC:C6	11:AB:864:DT:H72	2.54	0.43
11:AB:880:DG:H1'	11:AB:881:DT:H5'	2.00	0.43
11:AB:895:DG:H1'	11:AB:896:DT:H5'	2.00	0.43
11:AB:916:DG:H1'	11:AB:917:DT:H5'	2.00	0.43
11:AB:976:DT:C2'	11:AB:977:DT:H72	2.48	0.43
11:AB:1012:DC:C6	11:AB:1013:DT:H72	2.54	0.43
11:AB:1065:DC:C6	11:AB:1066:DT:H72	2.54	0.43
11:AB:1093:DC:C6	11:AB:1094:DT:H72	2.54	0.43
11:AB:1141:DA:H2'	11:AB:1142:DT:H72	2.00	0.43
11:AB:1150:DC:C6	11:AB:1151:DT:H72	2.54	0.43
11:AB:1166:DC:C6	11:AB:1167:DT:H72	2.54	0.43
11:AB:1396:DC:C6	11:AB:1397:DT:H72	2.54	0.43
11:AB:1495:DC:C6	11:AB:1496:DT:H72	2.54	0.43
11:AB:1568:DA:H2'	11:AB:1569:DT:H72	1.99	0.43
11:AB:1574:DC:C6	11:AB:1575:DT:H72	2.54	0.43
11:AB:1579:DC:C6	11:AB:1580:DT:H72	2.54	0.43
11:AB:1693:DC:C6	11:AB:1694:DT:H72	2.54	0.43
11:AB:1707:DC:C6	11:AB:1708:DT:H72	2.54	0.43
11:AB:1860:DA:H2'	11:AB:1861:DT:H72	2.00	0.43
11:AB:2100:DC:C6	11:AB:2101:DT:H72	2.54	0.43
11:AB:2157:DG:H1'	11:AB:2158:DT:H5'	2.00	0.43
11:AB:2203:DG:H1'	11:AB:2204:DT:H5'	2.00	0.43
11:AB:2211:DC:C6	11:AB:2212:DT:H72	2.54	0.43
11:AB:2264:DC:C6	11:AB:2265:DT:H72	2.54	0.43
11:AB:2329:DC:C6	11:AB:2330:DT:H72	2.54	0.43
11:AB:2363:DT:C2'	11:AB:2364:DT:H72	2.48	0.43
11:AB:2519:DT:C2'	11:AB:2520:DT:H72	2.48	0.43
11:AB:2521:DC:C6	11:AB:2522:DT:H72	2.54	0.43
11:AB:2656:DG:H1'	11:AB:2657:DT:H5'	2.00	0.43
11:AB:2675:DC:C6	11:AB:2676:DT:H72	2.54	0.43
11:AB:2692:DC:C6	11:AB:2693:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2734:DG:H1'	11:AB:2735:DT:H5'	2.01	0.43
11:AB:2772:DA:H2'	11:AB:2773:DT:H72	2.00	0.43
11:AB:2846:DC:C6	11:AB:2847:DT:H72	2.54	0.43
11:AB:2852:DC:C6	11:AB:2853:DT:H72	2.54	0.43
11:AB:2870:DA:H2'	11:AB:2871:DT:H72	2.00	0.43
11:AB:2922:DA:H2'	11:AB:2923:DT:H72	2.00	0.43
11:AB:3119:DA:H2'	11:AB:3120:DT:H72	2.00	0.43
11:AB:3131:DA:H2'	11:AB:3132:DT:H72	2.00	0.43
11:AB:3149:DC:C6	11:AB:3150:DT:H72	2.54	0.43
11:AB:3310:DG:H1'	11:AB:3311:DT:H5'	2.00	0.43
11:AB:3335:DA:H2'	11:AB:3336:DT:H72	2.00	0.43
11:AB:3352:DC:C6	11:AB:3353:DT:H72	2.54	0.43
11:AB:3366:DT:C2'	11:AB:3367:DT:H72	2.48	0.43
11:AB:3464:DC:C6	11:AB:3465:DT:H72	2.54	0.43
11:AB:3505:DT:C2'	11:AB:3506:DT:H72	2.48	0.43
11:AB:3512:DC:C6	11:AB:3513:DT:H72	2.54	0.43
11:AB:3531:DT:H72	11:AB:4790:DA:H2'	2.00	0.43
11:AB:3556:DC:C6	11:AB:3557:DT:H72	2.54	0.43
11:AB:3638:DG:H1'	11:AB:3639:DT:H5'	2.00	0.43
11:AB:3686:DC:C6	11:AB:3687:DT:H72	2.54	0.43
11:AB:3703:DG:H1'	11:AB:3704:DT:H5'	2.00	0.43
11:AB:3890:DG:H1'	11:AB:3891:DT:H5'	2.00	0.43
11:AB:3893:DA:H2'	11:AB:3894:DT:H72	2.00	0.43
11:AB:3964:DC:C6	11:AB:3965:DT:H72	2.54	0.43
11:AB:3978:DT:C2'	11:AB:3979:DT:H72	2.48	0.43
11:AB:4007:DC:C6	11:AB:4008:DT:H72	2.54	0.43
11:AB:4149:DC:C6	11:AB:4150:DT:H72	2.54	0.43
11:AB:4268:DC:C6	11:AB:4269:DT:H72	2.54	0.43
11:AB:4533:DC:C6	11:AB:4534:DT:H72	2.54	0.43
11:AB:4639:DT:C2'	11:AB:4640:DT:H72	2.48	0.43
11:AB:4713:DT:C2'	11:AB:4714:DT:H72	2.48	0.43
11:AB:4743:DG:H1'	11:AB:4744:DT:H5'	2.00	0.43
11:AB:4745:DG:H1'	11:AB:4746:DT:H5'	2.00	0.43
11:AB:4848:DA:H2'	11:AB:4849:DT:H72	2.00	0.43
11:AB:4922:DC:C6	11:AB:4923:DT:H72	2.54	0.43
11:AB:5075:DC:C6	11:AB:5076:DT:H72	2.54	0.43
11:AB:5099:DG:H1'	11:AB:5100:DT:H5'	2.00	0.43
11:AB:5179:DG:H1'	11:AB:5180:DT:H5'	2.00	0.43
11:AB:5696:DC:C6	11:AB:5697:DT:H72	2.54	0.43
11:AB:5816:DA:H2'	11:AB:5817:DT:H72	2.00	0.43
11:AB:5879:DA:H2'	11:AB:5880:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5918:DC:C6	11:AB:5919:DT:H72	2.54	0.43
11:AB:5921:DA:H2'	11:AB:5922:DT:H72	2.00	0.43
11:AB:6231:DC:C6	11:AB:6232:DT:H72	2.54	0.43
11:AB:6342:DA:H2'	11:AB:6343:DT:H72	2.00	0.43
11:AB:6350:DC:C6	11:AB:6351:DT:H72	2.54	0.43
11:AB:6417:DT:C2'	11:AB:6418:DT:H72	2.48	0.43
11:AB:6422:DG:H1'	11:AB:6423:DT:H5'	2.00	0.43
11:AB:6486:DC:C6	11:AB:6487:DT:H72	2.54	0.43
11:AB:6621:DG:H1'	11:AB:6622:DT:H5'	2.00	0.43
11:AB:6919:DC:C6	11:AB:6920:DT:H72	2.54	0.43
11:AB:6955:DA:H2'	11:AB:6956:DT:H72	2.00	0.43
11:AB:7086:DA:H2'	11:AB:7087:DT:H72	2.00	0.43
11:AB:7197:DG:H1'	11:AB:7198:DT:H5'	2.01	0.43
11:AB:7219:DC:C6	11:AB:7220:DT:H72	2.54	0.43
11:AB:7229:DC:C6	11:AB:7230:DT:H72	2.54	0.43
13:AD:22:DG:H1'	13:AD:23:DT:H5'	2.00	0.43
18:B5:34:DA:H2'	18:B5:35:DT:H72	2.00	0.43
19:B6:8:DT:H5'	125:L1:7:DG:H1'	2.00	0.43
22:B9:6:DC:C6	22:B9:7:DT:H72	2.54	0.43
22:B9:34:DG:H1'	22:B9:35:DT:H5'	2.00	0.43
22:B9:47:DG:H1'	22:B9:48:DT:H5'	2.00	0.43
25:BD:22:DA:H2'	25:BD:23:DT:H72	2.00	0.43
29:C5:1:DT:H5'	231:W5:35:DG:H1'	2.00	0.43
29:C5:23:DC:C6	29:C5:24:DT:H72	2.54	0.43
36:CD:14:DG:H1'	156:O2:43:DT:H5'	2.00	0.43
36:CD:15:DA:H2'	36:CD:16:DT:H72	2.00	0.43
39:D3:10:DG:H1'	39:D3:11:DT:H5'	2.00	0.43
41:D6:39:DT:C2'	41:D6:40:DT:H72	2.48	0.43
43:D8:18:DC:C6	43:D8:19:DT:H72	2.54	0.43
44:D9:7:DG:H1'	44:D9:8:DT:H5'	2.00	0.43
46:DC:21:DC:C6	46:DC:22:DT:H72	2.54	0.43
49:E2:17:DG:H1'	49:E2:18:DT:H5'	2.00	0.43
51:E5:21:DT:C2'	51:E5:22:DT:H72	2.48	0.43
54:E8:18:DC:C6	54:E8:19:DT:H72	2.54	0.43
54:E8:31:DT:C2'	54:E8:32:DT:H72	2.48	0.43
64:F7:3:DA:H2'	64:F7:4:DT:H72	2.00	0.43
74:G6:24:DA:H2'	74:G6:25:DT:H72	2.00	0.43
82:H2:15:DA:H2'	82:H2:16:DT:H72	2.00	0.43
84:H5:29:DC:C6	84:H5:30:DT:H72	2.54	0.43
85:H6:18:DC:C6	85:H6:19:DT:H72	2.54	0.43
89:HA:5:DA:H2'	89:HA:6:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
90:HC:5:DC:C6	90:HC:6:DT:H72	2.54	0.43
93:I2:43:DC:C6	93:I2:44:DT:H72	2.54	0.43
94:I3:2:DG:H1'	94:I3:3:DT:H5'	2.00	0.43
97:I7:11:DG:H1'	97:I7:12:DT:H5'	2.00	0.43
110:J9:7:DC:C6	110:J9:8:DT:H72	2.54	0.43
113:JD:29:DT:H5'	218:UA:14:DG:H1'	2.00	0.43
117:K5:13:DC:C6	117:K5:14:DT:H72	2.54	0.43
119:K7:33:DC:C6	119:K7:34:DT:H72	2.54	0.43
120:K8:1:DT:H72	146:N2:24:DC:C6	2.54	0.43
125:L1:37:DC:C6	125:L1:38:DT:H72	2.54	0.43
134:LC:10:DG:H1'	134:LC:11:DT:H5'	2.00	0.43
142:M9:9:DA:H2'	142:M9:10:DT:H72	2.00	0.43
145:MD:17:DT:H72	172:P9:16:DT:C2'	2.48	0.43
149:N6:3:DC:C6	149:N6:4:DT:H72	2.54	0.43
149:N6:15:DA:H2'	149:N6:16:DT:H72	2.00	0.43
149:N6:40:DA:H2'	149:N6:41:DT:H72	2.00	0.43
155:ND:10:DG:H1'	155:ND:11:DT:H5'	2.00	0.43
159:O6:1:DT:C2'	159:O6:2:DT:H72	2.48	0.43
160:O7:18:DA:H2'	160:O7:19:DT:H72	2.00	0.43
171:P8:7:DC:C6	171:P8:8:DT:H72	2.54	0.43
172:P9:17:DC:C6	172:P9:18:DT:H72	2.54	0.43
173:PA:31:DA:H2'	173:PA:32:DT:H72	2.00	0.43
179:Q7:13:DG:H1'	179:Q7:14:DT:H5'	2.00	0.43
179:Q7:16:DA:H2'	179:Q7:17:DT:H72	2.00	0.43
183:QC:5:DC:C6	183:QC:6:DT:H72	2.54	0.43
183:QC:8:DA:H2'	183:QC:9:DT:H72	2.00	0.43
189:R8:16:DC:C6	189:R8:17:DT:H72	2.54	0.43
189:R8:20:DA:H2'	189:R8:21:DT:H72	2.00	0.43
190:R9:5:DT:C2'	190:R9:6:DT:H72	2.48	0.43
190:R9:19:DT:C2'	190:R9:20:DT:H72	2.48	0.43
192:RC:21:DC:C6	192:RC:22:DT:H72	2.54	0.43
194:S2:7:DA:H2'	194:S2:8:DT:H72	2.00	0.43
195:S3:27:DA:H2'	195:S3:28:DT:H72	2.00	0.43
197:S7:13:DC:C6	197:S7:14:DT:H72	2.54	0.43
198:S8:6:DC:C6	198:S8:7:DT:H72	2.54	0.43
204:T3:10:DA:H2'	204:T3:11:DT:H72	2.00	0.43
205:T5:6:DC:C6	205:T5:7:DT:H72	2.54	0.43
206:T7:13:DC:C6	206:T7:14:DT:H72	2.54	0.43
207:T8:9:DG:H1'	207:T8:10:DT:H5'	2.00	0.43
208:T9:9:DC:C6	208:T9:10:DT:H72	2.54	0.43
209:TA:19:DT:C2'	209:TA:20:DT:H72	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
213:U3:16:DG:H1'	213:U3:17:DT:H5'	2.00	0.43
213:U3:20:DC:C6	213:U3:21:DT:H72	2.54	0.43
214:U5:13:DT:C2'	214:U5:14:DT:H72	2.48	0.43
223:V5:23:DC:C6	223:V5:24:DT:H72	2.54	0.43
227:VA:8:DC:C6	227:VA:9:DT:H72	2.54	0.43
233:W8:19:DC:C6	233:W8:20:DT:H72	2.54	0.43
233:W8:22:DA:H2'	233:W8:23:DT:H72	2.00	0.43
1:A1:5:DT:C2'	115:K2:31:DT:H72	2.48	0.43
2:A2:17:DT:C2'	206:T7:46:DT:H72	2.48	0.43
3:A3:17:DG:H1'	3:A3:18:DT:H5'	2.00	0.43
6:A6:23:DG:H1'	6:A6:24:DT:H5'	2.00	0.43
8:A8:17:DA:H2'	8:A8:18:DT:H72	2.00	0.43
11:AB:150:DG:H1'	11:AB:151:DT:H5'	2.00	0.43
11:AB:188:DT:C2'	11:AB:189:DT:H72	2.48	0.43
11:AB:196:DC:C6	11:AB:197:DT:H72	2.54	0.43
11:AB:256:DC:C6	11:AB:257:DT:H72	2.54	0.43
11:AB:379:DC:C6	11:AB:380:DT:H72	2.54	0.43
11:AB:517:DC:C6	11:AB:518:DT:H72	2.54	0.43
11:AB:655:DA:H2'	11:AB:656:DT:H72	1.99	0.43
11:AB:844:DC:C6	11:AB:845:DT:H72	2.54	0.43
11:AB:1157:DT:C2'	11:AB:1158:DT:H72	2.48	0.43
11:AB:1162:DC:C6	11:AB:1163:DT:H72	2.54	0.43
11:AB:1222:DA:H2'	11:AB:1223:DT:H72	2.00	0.43
11:AB:1234:DA:H2'	11:AB:1235:DT:H72	2.00	0.43
11:AB:1312:DA:H2'	11:AB:1313:DT:H72	2.00	0.43
11:AB:1355:DT:C2'	11:AB:1356:DT:H72	2.48	0.43
11:AB:1356:DT:C2'	11:AB:1357:DT:H72	2.48	0.43
11:AB:1404:DC:C6	11:AB:1405:DT:H72	2.54	0.43
11:AB:1462:DT:C2'	11:AB:1463:DT:H72	2.48	0.43
11:AB:1511:DC:C6	11:AB:1512:DT:H72	2.54	0.43
11:AB:1523:DT:C2'	11:AB:1524:DT:H72	2.48	0.43
11:AB:1532:DA:H2'	11:AB:1533:DT:H72	2.00	0.43
11:AB:1608:DT:C2'	11:AB:1609:DT:H72	2.48	0.43
11:AB:1649:DT:C2'	11:AB:1650:DT:H72	2.48	0.43
11:AB:1671:DT:C2'	11:AB:1672:DT:H72	2.48	0.43
11:AB:1771:DC:C6	11:AB:1772:DT:H72	2.54	0.43
11:AB:1812:DC:C6	11:AB:1813:DT:H72	2.54	0.43
11:AB:1845:DG:H1'	11:AB:1846:DT:H5'	2.00	0.43
11:AB:1994:DC:C6	11:AB:1995:DT:H72	2.54	0.43
11:AB:2029:DA:H2'	11:AB:2030:DT:H72	1.99	0.43
11:AB:2045:DG:H1'	11:AB:2046:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2068:DA:H2'	11:AB:2069:DT:H72	2.00	0.43
11:AB:2114:DA:H2'	11:AB:2115:DT:H72	1.99	0.43
11:AB:2181:DT:C2'	11:AB:2182:DT:H72	2.48	0.43
11:AB:2231:DT:C2'	11:AB:2232:DT:H72	2.48	0.43
11:AB:2232:DT:C2'	11:AB:2233:DT:H72	2.48	0.43
11:AB:2253:DC:C6	11:AB:2254:DT:H72	2.54	0.43
11:AB:2425:DC:C6	11:AB:2426:DT:H72	2.54	0.43
11:AB:2441:DT:C2'	11:AB:2442:DT:H72	2.48	0.43
11:AB:2536:DT:C2'	11:AB:2537:DT:H72	2.48	0.43
11:AB:2542:DT:C2'	11:AB:2543:DT:H72	2.48	0.43
11:AB:2720:DT:C2'	11:AB:2721:DT:H72	2.48	0.43
11:AB:2768:DT:C2'	11:AB:2769:DT:H72	2.48	0.43
11:AB:2879:DC:C6	11:AB:2880:DT:H72	2.54	0.43
11:AB:2901:DG:H1'	11:AB:2902:DT:H5'	2.00	0.43
11:AB:2999:DA:H2'	11:AB:3000:DT:H72	2.00	0.43
11:AB:3029:DA:H2'	11:AB:3030:DT:H72	2.00	0.43
11:AB:3126:DA:H2'	11:AB:3127:DT:H72	1.99	0.43
11:AB:3147:DT:C2'	11:AB:3148:DT:H72	2.48	0.43
11:AB:3191:DC:C6	11:AB:3192:DT:H72	2.54	0.43
11:AB:3279:DA:H2'	11:AB:3280:DT:H72	2.00	0.43
11:AB:3301:DC:C6	11:AB:3302:DT:H72	2.54	0.43
11:AB:3330:DT:C2'	11:AB:3331:DT:H72	2.48	0.43
11:AB:3367:DT:C2'	11:AB:3368:DT:H72	2.48	0.43
11:AB:3450:DC:C6	11:AB:3451:DT:H72	2.54	0.43
11:AB:3545:DA:H2'	11:AB:3546:DT:H72	2.00	0.43
11:AB:3666:DT:C2'	11:AB:3667:DT:H72	2.48	0.43
11:AB:3680:DG:H1'	11:AB:3681:DT:H5'	2.00	0.43
11:AB:4042:DG:H1'	11:AB:4043:DT:H5'	2.00	0.43
11:AB:4097:DG:H1'	11:AB:4098:DT:H5'	2.00	0.43
11:AB:4124:DC:C6	11:AB:4125:DT:H72	2.54	0.43
11:AB:4191:DT:C2'	11:AB:4192:DT:H72	2.48	0.43
11:AB:4239:DG:H1'	11:AB:4240:DT:H5'	2.00	0.43
11:AB:4315:DG:H1'	11:AB:4316:DT:H5'	2.00	0.43
11:AB:4345:DT:C2'	11:AB:4346:DT:H72	2.48	0.43
11:AB:4373:DC:C6	11:AB:4374:DT:H72	2.54	0.43
11:AB:4433:DT:C2'	11:AB:4434:DT:H72	2.48	0.43
11:AB:4690:DC:C6	11:AB:4691:DT:H72	2.54	0.43
11:AB:4719:DC:C6	11:AB:4720:DT:H72	2.54	0.43
11:AB:4810:DC:C6	11:AB:4811:DT:H72	2.54	0.43
11:AB:4888:DC:C6	11:AB:4889:DT:H72	2.54	0.43
11:AB:4914:DT:C2'	11:AB:4915:DT:H72	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5181:DT:C2'	11:AB:5182:DT:H72	2.48	0.43
11:AB:5208:DG:H1'	11:AB:5209:DT:H5'	2.00	0.43
11:AB:5232:DA:H2'	11:AB:5233:DT:H72	2.00	0.43
11:AB:5354:DT:C2'	11:AB:5355:DT:H72	2.48	0.43
11:AB:5374:DA:H2'	11:AB:5375:DT:H72	2.00	0.43
11:AB:5386:DT:C2'	11:AB:5387:DT:H72	2.48	0.43
11:AB:5461:DC:C6	11:AB:5462:DT:H72	2.54	0.43
11:AB:5529:DC:C6	11:AB:5530:DT:H72	2.54	0.43
11:AB:5540:DA:H2'	11:AB:5541:DT:H72	2.00	0.43
11:AB:5542:DT:C2'	11:AB:5543:DT:H72	2.48	0.43
11:AB:5567:DA:H2'	11:AB:5568:DT:H72	2.00	0.43
11:AB:5589:DC:C6	11:AB:5590:DT:H72	2.54	0.43
11:AB:5638:DA:H2'	11:AB:5639:DT:H72	2.00	0.43
11:AB:5650:DA:H2'	11:AB:5651:DT:H72	2.00	0.43
11:AB:5726:DA:H2'	11:AB:5727:DT:H72	2.00	0.43
11:AB:5735:DG:H1'	11:AB:5736:DT:H5'	2.00	0.43
11:AB:5861:DC:C6	11:AB:5862:DT:H72	2.54	0.43
11:AB:6006:DA:H2'	11:AB:6007:DT:H72	2.00	0.43
11:AB:6120:DG:H1'	11:AB:6121:DT:H5'	2.00	0.43
11:AB:6131:DC:C6	11:AB:6132:DT:H72	2.54	0.43
11:AB:6160:DA:H2'	11:AB:6161:DT:H72	2.00	0.43
11:AB:6311:DA:H2'	11:AB:6312:DT:H72	2.00	0.43
11:AB:6322:DA:H2'	11:AB:6323:DT:H72	2.00	0.43
11:AB:6494:DG:H1'	11:AB:6495:DT:H5'	2.00	0.43
11:AB:6527:DC:C6	11:AB:6528:DT:H72	2.54	0.43
11:AB:6583:DT:C2'	11:AB:6584:DT:H72	2.48	0.43
11:AB:6586:DA:H2'	11:AB:6587:DT:H72	2.00	0.43
11:AB:6637:DC:C6	11:AB:6638:DT:H72	2.54	0.43
11:AB:6656:DA:H2'	11:AB:6657:DT:H72	2.00	0.43
11:AB:6870:DG:H1'	11:AB:6871:DT:H5'	2.00	0.43
11:AB:6988:DC:C6	11:AB:6989:DT:H72	2.54	0.43
11:AB:7042:DA:H2'	11:AB:7043:DT:H72	2.00	0.43
11:AB:7074:DC:C6	11:AB:7075:DT:H72	2.54	0.43
11:AB:7149:DC:C6	11:AB:7150:DT:H72	2.54	0.43
11:AB:7184:DT:C2'	11:AB:7185:DT:H72	2.48	0.43
14:B1:13:DA:H2'	14:B1:14:DT:H72	2.00	0.43
17:B4:9:DA:H2'	17:B4:10:DT:H72	2.00	0.43
17:B4:20:DC:C6	17:B4:21:DT:H72	2.54	0.43
18:B5:17:DC:C6	18:B5:18:DT:H72	2.54	0.43
18:B5:38:DA:H2'	194:S2:1:DT:H72	2.00	0.43
19:B6:9:DG:H1'	19:B6:10:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:B8:18:DA:H2'	21:B8:19:DT:H72	2.00	0.43
22:B9:20:DC:C6	22:B9:21:DT:H72	2.54	0.43
27:C2:13:DT:C2'	149:N6:38:DT:H72	2.48	0.43
31:C7:5:DT:C2'	49:E2:31:DT:H72	2.48	0.43
31:C7:26:DT:C2'	31:C7:27:DT:H72	2.48	0.43
37:D1:7:DT:C2'	138:M5:29:DT:H72	2.48	0.43
44:D9:10:DC:C6	44:D9:11:DT:H72	2.54	0.43
45:DA:23:DA:H2'	45:DA:24:DT:H72	2.00	0.43
49:E2:8:DA:H2'	49:E2:9:DT:H72	2.00	0.43
49:E2:22:DT:C2'	49:E2:23:DT:H72	2.48	0.43
49:E2:24:DC:C6	49:E2:25:DT:H72	2.54	0.43
53:E7:2:DT:C2'	53:E7:3:DT:H72	2.48	0.43
56:EA:16:DT:C2'	56:EA:17:DT:H72	2.48	0.43
57:EC:16:DC:C6	57:EC:17:DT:H72	2.54	0.43
67:FA:15:DG:H1'	67:FA:16:DT:H5'	2.00	0.43
69:FD:32:DC:C6	69:FD:33:DT:H72	2.54	0.43
77:G9:6:DT:H72	156:O2:56:DC:C6	2.54	0.43
84:H5:11:DA:H2'	84:H5:12:DT:H72	2.00	0.43
92:I1:6:DA:H2'	92:I1:7:DT:H72	2.00	0.43
100:IA:6:DG:H1'	100:IA:7:DT:H5'	2.00	0.43
100:IA:19:DA:H2'	100:IA:20:DT:H72	2.00	0.43
103:J1:26:DG:H1'	103:J1:27:DT:H5'	2.00	0.43
103:J1:28:DT:C2'	211:TD:1:DT:H72	2.48	0.43
105:J3:5:DA:H2'	105:J3:6:DT:H72	2.00	0.43
106:J5:8:DC:C6	106:J5:9:DT:H72	2.54	0.43
107:J6:10:DA:H2'	107:J6:11:DT:H72	2.00	0.43
117:K5:44:DG:H1'	117:K5:45:DT:H5'	2.00	0.43
118:K6:5:DA:H2'	118:K6:6:DT:H72	2.00	0.43
120:K8:5:DT:H72	141:M8:30:DT:C2'	2.48	0.43
122:KA:42:DC:C6	122:KA:43:DT:H72	2.54	0.43
123:KC:26:DA:H2'	123:KC:27:DT:H72	2.00	0.43
124:KD:4:DC:C6	124:KD:5:DT:H72	2.54	0.43
124:KD:23:DG:H1'	132:L9:1:DT:H5'	2.01	0.43
127:L3:17:DC:C6	127:L3:18:DT:H72	2.54	0.43
130:L7:27:DA:H2'	130:L7:28:DT:H72	2.00	0.43
141:M8:29:DT:C2'	141:M8:30:DT:H72	2.48	0.43
144:MC:20:DT:C2'	144:MC:21:DT:H72	2.48	0.43
145:MD:46:DG:H1'	145:MD:47:DT:H5'	2.00	0.43
152:N9:3:DG:H1'	190:R9:5:DT:H5'	2.00	0.43
152:N9:9:DT:C2'	152:N9:10:DT:H72	2.48	0.43
152:N9:10:DT:C2'	208:T9:14:DT:H72	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
152:N9:39:DA:H2'	152:N9:40:DT:H72	2.00	0.43
152:N9:45:DG:H1'	152:N9:46:DT:H5'	2.00	0.43
152:N9:49:DA:H2'	152:N9:50:DT:H72	2.00	0.43
154:NC:32:DC:C6	154:NC:33:DT:H72	2.54	0.43
156:O2:24:DA:H2'	156:O2:25:DT:H72	2.00	0.43
157:O3:19:DG:H1'	157:O3:20:DT:H5'	2.00	0.43
158:O5:33:DA:H2'	158:O5:34:DT:H72	2.00	0.43
159:O6:11:DG:H1'	159:O6:12:DT:H5'	2.00	0.43
161:O8:21:DA:H2'	161:O8:22:DT:H72	2.00	0.43
162:O9:8:DC:C6	162:O9:9:DT:H72	2.54	0.43
162:O9:12:DA:H2'	162:O9:13:DT:H72	2.00	0.43
165:OD:52:DA:H2'	165:OD:53:DT:H72	2.00	0.43
167:P3:33:DC:C6	167:P3:34:DT:H72	2.54	0.43
170:P7:7:DC:C6	170:P7:8:DT:H72	2.54	0.43
178:Q5:34:DA:H2'	178:Q5:35:DT:H72	2.00	0.43
180:Q8:19:DA:H2'	180:Q8:20:DT:H72	2.00	0.43
182:QA:11:DG:H1'	182:QA:12:DT:H5'	2.00	0.43
185:R2:1:DT:C2'	185:R2:2:DT:H72	2.48	0.43
193:RD:16:DA:H2'	193:RD:17:DT:H72	2.00	0.43
194:S2:25:DG:H1'	194:S2:26:DT:H5'	2.00	0.43
196:S5:29:DG:H1'	196:S5:30:DT:H5'	2.00	0.43
203:T2:5:DC:C6	203:T2:6:DT:H72	2.54	0.43
206:T7:3:DC:C6	206:T7:4:DT:H72	2.54	0.43
206:T7:44:DA:H2'	206:T7:45:DT:H72	2.00	0.43
208:T9:16:DA:H2'	208:T9:17:DT:H72	2.00	0.43
215:U7:3:DA:H2'	215:U7:4:DT:H72	2.00	0.43
218:UA:8:DG:H1'	218:UA:9:DT:H5'	2.00	0.43
220:UD:10:DC:C6	220:UD:11:DT:H72	2.54	0.43
221:V2:21:DA:H2'	221:V2:22:DT:H72	2.00	0.43
223:V5:32:DG:H1'	223:V5:33:DT:H5'	2.00	0.43
224:V7:6:DC:C6	224:V7:7:DT:H72	2.54	0.43
227:VA:3:DC:C6	227:VA:4:DT:H72	2.54	0.43
227:VA:27:DC:C6	227:VA:28:DT:H72	2.54	0.43
230:W3:27:DA:H2'	230:W3:28:DT:H72	2.00	0.43
231:W5:26:DT:C2'	231:W5:27:DT:H72	2.48	0.43
235:WD:20:DT:C2'	235:WD:21:DT:H72	2.48	0.43
1:A1:29:DG:H1'	1:A1:30:DT:H5'	2.00	0.43
1:A1:53:DG:H1'	1:A1:54:DT:H5'	2.00	0.43
1:A1:55:DA:H2'	1:A1:56:DT:H72	2.00	0.43
5:A5:1:DT:C2'	5:A5:2:DT:H72	2.48	0.43
7:A7:24:DA:H2'	7:A7:25:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:27:DT:C2'	118:K6:14:DT:H72	2.48	0.43
8:A8:22:DC:C6	8:A8:23:DT:H72	2.54	0.43
9:A9:11:DA:H2'	9:A9:12:DT:H72	2.00	0.43
11:AB:30:DT:C2'	11:AB:31:DT:H72	2.48	0.43
11:AB:62:DC:C6	11:AB:63:DT:H72	2.54	0.43
11:AB:128:DC:C6	11:AB:129:DT:H72	2.54	0.43
11:AB:134:DT:C2'	11:AB:135:DT:H72	2.48	0.43
11:AB:175:DC:C6	11:AB:176:DT:H72	2.54	0.43
11:AB:233:DA:H2'	11:AB:234:DT:H72	2.00	0.43
11:AB:251:DA:H2'	11:AB:252:DT:H72	2.00	0.43
11:AB:282:DT:C2'	11:AB:283:DT:H72	2.48	0.43
11:AB:391:DC:C6	11:AB:392:DT:H72	2.54	0.43
11:AB:416:DC:C6	11:AB:417:DT:H72	2.54	0.43
11:AB:476:DG:H1'	11:AB:477:DT:H5'	2.00	0.43
11:AB:519:DC:C6	11:AB:520:DT:H72	2.54	0.43
11:AB:538:DC:C6	11:AB:539:DT:H72	2.54	0.43
11:AB:562:DA:H2'	11:AB:563:DT:H72	2.00	0.43
11:AB:595:DT:C2'	11:AB:596:DT:H72	2.48	0.43
11:AB:598:DA:H2'	11:AB:599:DT:H72	2.00	0.43
11:AB:697:DA:H2'	11:AB:698:DT:H72	1.99	0.43
11:AB:874:DG:H1'	11:AB:875:DT:H5'	2.00	0.43
11:AB:979:DA:H2'	11:AB:980:DT:H72	2.00	0.43
11:AB:1030:DA:H2'	11:AB:1031:DT:H72	2.00	0.43
11:AB:1054:DC:C6	11:AB:1055:DT:H72	2.54	0.43
11:AB:1069:DA:H2'	11:AB:1070:DT:H72	1.99	0.43
11:AB:1128:DC:C6	11:AB:1129:DT:H72	2.54	0.43
11:AB:1387:DC:C6	11:AB:1388:DT:H72	2.54	0.43
11:AB:1420:DC:C6	11:AB:1421:DT:H72	2.54	0.43
11:AB:1446:DT:C2'	11:AB:1447:DT:H72	2.48	0.43
11:AB:1481:DG:H1'	11:AB:1482:DT:H5'	2.00	0.43
11:AB:1502:DC:C6	11:AB:1503:DT:H72	2.54	0.43
11:AB:1536:DC:C6	11:AB:1537:DT:H72	2.54	0.43
11:AB:1587:DT:C2'	11:AB:1588:DT:H72	2.48	0.43
11:AB:1602:DC:C6	11:AB:1603:DT:H72	2.54	0.43
11:AB:1630:DC:C6	11:AB:1631:DT:H72	2.54	0.43
11:AB:1644:DT:C2'	11:AB:1645:DT:H72	2.48	0.43
11:AB:1662:DC:C6	11:AB:1663:DT:H72	2.54	0.43
11:AB:1743:DC:C6	11:AB:1744:DT:H72	2.54	0.43
11:AB:1782:DG:H1'	11:AB:1783:DT:H5'	2.00	0.43
11:AB:1877:DT:C2'	11:AB:1878:DT:H72	2.48	0.43
11:AB:1884:DC:C6	11:AB:1885:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1951:DC:C6	11:AB:1952:DT:H72	2.54	0.43
11:AB:1960:DC:C6	11:AB:1961:DT:H72	2.54	0.43
11:AB:1972:DC:C6	11:AB:1973:DT:H72	2.54	0.43
11:AB:2016:DT:C2'	11:AB:2017:DT:H72	2.48	0.43
11:AB:2059:DC:C6	11:AB:2060:DT:H72	2.54	0.43
11:AB:2065:DA:H2'	11:AB:2066:DT:H72	2.00	0.43
11:AB:2285:DA:H2'	11:AB:2286:DT:H72	2.00	0.43
11:AB:2315:DT:C2'	11:AB:2316:DT:H72	2.48	0.43
11:AB:2393:DT:C2'	11:AB:2394:DT:H72	2.48	0.43
11:AB:2394:DT:C2'	11:AB:2395:DT:H72	2.48	0.43
11:AB:2420:DT:C2'	11:AB:2421:DT:H72	2.48	0.43
11:AB:2531:DT:C2'	11:AB:2532:DT:H72	2.47	0.43
11:AB:2669:DC:C6	11:AB:2670:DT:H72	2.54	0.43
11:AB:2682:DT:C2'	11:AB:2683:DT:H72	2.48	0.43
11:AB:2703:DT:C2'	11:AB:2704:DT:H72	2.48	0.43
11:AB:2706:DA:H2'	11:AB:2707:DT:H72	2.00	0.43
11:AB:2815:DT:C2'	11:AB:2816:DT:H72	2.48	0.43
11:AB:2844:DT:C2'	11:AB:2845:DT:H72	2.48	0.43
11:AB:2889:DT:C2'	11:AB:2890:DT:H72	2.48	0.43
11:AB:2942:DA:H2'	11:AB:2943:DT:H72	2.00	0.43
11:AB:2962:DG:H1'	11:AB:2963:DT:H5'	2.00	0.43
11:AB:2964:DA:H2'	11:AB:2965:DT:H72	2.00	0.43
11:AB:2972:DC:C6	11:AB:2973:DT:H72	2.54	0.43
11:AB:3011:DC:C6	11:AB:3012:DT:H72	2.54	0.43
11:AB:3083:DA:H2'	11:AB:3084:DT:H72	2.00	0.43
11:AB:3296:DC:C6	11:AB:3297:DT:H72	2.54	0.43
11:AB:3307:DG:H1'	11:AB:3308:DT:H5'	2.00	0.43
11:AB:3317:DC:C6	11:AB:3318:DT:H72	2.54	0.43
11:AB:3359:DC:C6	11:AB:3360:DT:H72	2.54	0.43
11:AB:3507:DA:H2'	11:AB:3508:DT:H72	2.00	0.43
11:AB:3532:DA:H2'	11:AB:3533:DT:H72	2.00	0.43
11:AB:3588:DT:C2'	11:AB:3589:DT:H72	2.48	0.43
11:AB:3613:DA:H2'	11:AB:3614:DT:H72	2.00	0.43
11:AB:3701:DA:H2'	11:AB:3702:DT:H72	2.00	0.43
11:AB:3707:DA:H2'	11:AB:3708:DT:H72	2.00	0.43
11:AB:3776:DC:C6	11:AB:3777:DT:H72	2.54	0.43
11:AB:3820:DT:C2'	11:AB:3821:DT:H72	2.48	0.43
11:AB:3869:DT:C2'	11:AB:3870:DT:H72	2.48	0.43
11:AB:3880:DG:H1'	11:AB:3881:DT:H5'	2.00	0.43
11:AB:3910:DC:C6	11:AB:3911:DT:H72	2.54	0.43
11:AB:3947:DA:H2'	11:AB:3948:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4005:DC:C6	11:AB:4006:DT:H72	2.54	0.43
11:AB:4169:DT:C2'	11:AB:4170:DT:H72	2.48	0.43
11:AB:4316:DT:C2'	11:AB:4317:DT:H72	2.48	0.43
11:AB:4317:DT:C2'	11:AB:4318:DT:H72	2.48	0.43
11:AB:4355:DG:H1'	11:AB:4356:DT:H5'	2.00	0.43
11:AB:4366:DT:C2'	11:AB:4367:DT:H72	2.48	0.43
11:AB:4391:DC:C6	11:AB:4392:DT:H72	2.54	0.43
11:AB:4401:DC:C6	11:AB:4402:DT:H72	2.54	0.43
11:AB:4569:DC:C6	11:AB:4570:DT:H72	2.54	0.43
11:AB:4594:DC:C6	11:AB:4595:DT:H72	2.54	0.43
11:AB:4856:DT:C2'	11:AB:4857:DT:H72	2.48	0.43
11:AB:5007:DA:H2'	11:AB:5008:DT:H72	2.00	0.43
11:AB:5079:DC:C6	11:AB:5080:DT:H72	2.54	0.43
11:AB:5110:DC:C6	11:AB:5111:DT:H72	2.54	0.43
11:AB:5125:DT:C2'	11:AB:5126:DT:H72	2.48	0.43
11:AB:5180:DT:C2'	11:AB:5181:DT:H72	2.48	0.43
11:AB:5423:DT:C2'	11:AB:5424:DT:H72	2.48	0.43
11:AB:5456:DA:H2'	11:AB:5457:DT:H72	2.00	0.43
11:AB:5469:DC:C6	11:AB:5470:DT:H72	2.54	0.43
11:AB:5507:DA:H2'	11:AB:5508:DT:H72	2.00	0.43
11:AB:5509:DC:C6	11:AB:5510:DT:H72	2.54	0.43
11:AB:5527:DC:C6	11:AB:5528:DT:H72	2.54	0.43
11:AB:5683:DG:H1'	11:AB:5684:DT:H5'	2.00	0.43
11:AB:5723:DA:H2'	11:AB:5724:DT:H72	2.00	0.43
11:AB:5750:DC:C6	11:AB:5751:DT:H72	2.54	0.43
11:AB:5904:DT:C2'	11:AB:5905:DT:H72	2.48	0.43
11:AB:6008:DA:H2'	11:AB:6009:DT:H72	2.00	0.43
11:AB:6060:DA:H2'	11:AB:6061:DT:H72	2.00	0.43
11:AB:6200:DA:H2'	11:AB:6201:DT:H72	2.00	0.43
11:AB:6203:DT:C2'	11:AB:6204:DT:H72	2.48	0.43
11:AB:6224:DC:C6	11:AB:6225:DT:H72	2.54	0.43
11:AB:6461:DT:C2'	11:AB:6462:DT:H72	2.48	0.43
11:AB:6472:DA:H2'	11:AB:6473:DT:H72	2.00	0.43
11:AB:6551:DC:C6	11:AB:6552:DT:H72	2.54	0.43
11:AB:6581:DG:H1'	11:AB:6582:DT:H5'	2.00	0.43
11:AB:6672:DG:H1'	11:AB:6673:DT:H5'	2.00	0.43
11:AB:6736:DC:C6	11:AB:6737:DT:H72	2.54	0.43
11:AB:6744:DC:C6	11:AB:6745:DT:H72	2.54	0.43
11:AB:6793:DT:C2'	11:AB:6794:DT:H72	2.48	0.43
11:AB:6863:DT:C2'	11:AB:6864:DT:H72	2.48	0.43
11:AB:6871:DT:C2'	11:AB:6872:DT:H72	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6894:DA:H2'	11:AB:6895:DT:H72	2.00	0.43
11:AB:6967:DA:H2'	11:AB:6968:DT:H72	2.00	0.43
11:AB:7052:DC:C6	11:AB:7053:DT:H72	2.54	0.43
11:AB:7070:DG:H1'	11:AB:7071:DT:H5'	2.00	0.43
13:AD:19:DA:H2'	13:AD:20:DT:H72	2.00	0.43
14:B1:10:DA:H2'	14:B1:11:DT:H72	2.00	0.43
15:B2:11:DA:H2'	15:B2:12:DT:H72	1.99	0.43
16:B3:14:DT:H5'	152:N9:24:DG:H1'	2.00	0.43
17:B4:6:DT:C2'	17:B4:7:DT:H72	2.48	0.43
20:B7:14:DT:H72	97:I7:27:DT:C2'	2.48	0.43
22:B9:1:DA:H2'	22:B9:2:DT:H72	2.00	0.43
24:BC:41:DC:C6	57:EC:8:DT:H72	2.54	0.43
30:C6:12:DC:C6	30:C6:13:DT:H72	2.54	0.43
30:C6:26:DC:C6	30:C6:27:DT:H72	2.54	0.43
31:C7:3:DG:H1'	31:C7:4:DT:H5'	2.00	0.43
31:C7:6:DC:C6	31:C7:7:DT:H72	2.54	0.43
36:CD:24:DA:H2'	36:CD:25:DT:H72	2.00	0.43
39:D3:6:DC:C6	39:D3:7:DT:H72	2.54	0.43
39:D3:21:DA:H2'	39:D3:22:DT:H72	2.00	0.43
41:D6:16:DC:C6	41:D6:17:DT:H72	2.54	0.43
45:DA:9:DG:H1'	45:DA:10:DT:H5'	2.00	0.43
46:DC:13:DC:C6	57:EC:1:DT:H72	2.54	0.43
51:E5:26:DC:C6	51:E5:27:DT:H72	2.54	0.43
52:E6:1:DT:C2'	52:E6:2:DT:H72	2.48	0.43
53:E7:4:DA:H2'	53:E7:5:DT:H72	2.00	0.43
56:EA:10:DG:H1'	56:EA:11:DT:H5'	2.00	0.43
62:F5:44:DT:C2'	62:F5:45:DT:H72	2.48	0.43
62:F5:45:DT:C2'	62:F5:46:DT:H72	2.48	0.43
66:F9:16:DG:H1'	66:F9:17:DT:H5'	2.00	0.43
69:FD:9:DG:H1'	69:FD:10:DT:H5'	2.00	0.43
72:G3:8:DA:H2'	72:G3:9:DT:H72	2.00	0.43
72:G3:17:DA:H2'	72:G3:18:DT:H72	2.00	0.43
74:G6:13:DC:C6	74:G6:14:DT:H72	2.54	0.43
74:G6:33:DG:H1'	74:G6:34:DT:H5'	2.00	0.43
82:H2:6:DC:C6	82:H2:7:DT:H72	2.54	0.43
83:H3:2:DC:C6	83:H3:3:DT:H72	2.54	0.43
83:H3:8:DT:H72	181:Q9:39:DC:C6	2.54	0.43
88:H9:6:DA:H2'	88:H9:7:DT:H72	2.00	0.43
89:HA:33:DC:C6	89:HA:34:DT:H72	2.54	0.43
94:I3:6:DA:H2'	94:I3:7:DT:H72	2.00	0.43
98:I8:39:DG:H1'	98:I8:40:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
98:I8:41:DA:H2'	98:I8:42:DT:H72	2.00	0.43
99:I9:1:DT:H72	133:LA:22:DA:H2'	1.99	0.43
99:I9:7:DC:C6	99:I9:8:DT:H72	2.54	0.43
99:I9:12:DA:H2'	99:I9:13:DT:H72	2.00	0.43
100:IA:14:DT:C2'	100:IA:15:DT:H72	2.48	0.43
103:J1:10:DA:H2'	103:J1:11:DT:H72	2.00	0.43
105:J3:11:DA:H2'	105:J3:12:DT:H72	1.99	0.43
106:J5:15:DT:H72	196:S5:21:DC:C6	2.54	0.43
108:J7:16:DC:C6	108:J7:17:DT:H72	2.54	0.43
112:JC:21:DT:C2'	112:JC:22:DT:H72	2.48	0.43
114:K1:12:DA:H2'	114:K1:13:DT:H72	2.00	0.43
114:K1:35:DT:C2'	119:K7:26:DT:H72	2.48	0.43
115:K2:5:DA:H2'	115:K2:6:DT:H72	2.00	0.43
122:KA:36:DT:H72	226:V9:18:DC:C6	2.54	0.43
123:KC:5:DA:H2'	123:KC:6:DT:H72	2.00	0.43
126:L2:52:DA:H2'	126:L2:53:DT:H72	2.00	0.43
128:L5:7:DT:C2'	128:L5:8:DT:H72	2.48	0.43
129:L6:13:DA:H2'	129:L6:14:DT:H72	2.00	0.43
133:LA:13:DG:H1'	133:LA:14:DT:H5'	2.00	0.43
136:M2:21:DT:C2'	166:P2:17:DT:H72	2.48	0.43
140:M7:4:DA:H2'	140:M7:5:DT:H72	2.00	0.43
140:M7:9:DC:C6	140:M7:10:DT:H72	2.54	0.43
141:M8:21:DG:H1'	141:M8:22:DT:H5'	2.00	0.43
144:MC:15:DT:C2'	144:MC:16:DT:H72	2.48	0.43
144:MC:19:DC:C6	144:MC:20:DT:H72	2.54	0.43
146:N2:17:DA:H2'	146:N2:18:DT:H72	2.00	0.43
147:N3:26:DC:C6	147:N3:27:DT:H72	2.54	0.43
149:N6:13:DA:H2'	149:N6:14:DT:H72	2.00	0.43
153:NA:7:DG:H1'	153:NA:8:DT:H5'	2.00	0.43
154:NC:2:DC:C6	154:NC:3:DT:H72	2.54	0.43
155:ND:11:DT:C2'	155:ND:12:DT:H72	2.48	0.43
155:ND:12:DT:C2'	184:QD:8:DT:H72	2.48	0.43
159:O6:14:DT:C2'	159:O6:15:DT:H72	2.48	0.43
160:O7:14:DC:C6	160:O7:15:DT:H72	2.54	0.43
161:O8:46:DT:C2'	161:O8:47:DT:H72	2.48	0.43
165:OD:48:DA:H2'	165:OD:49:DT:H72	2.00	0.43
167:P3:23:DC:C6	167:P3:24:DT:H72	2.54	0.43
169:P6:12:DG:H1'	169:P6:13:DT:H5'	2.00	0.43
170:P7:5:DA:H2'	170:P7:6:DT:H72	2.00	0.43
171:P8:18:DT:H72	185:R2:14:DT:C2'	2.48	0.43
172:P9:26:DC:C6	172:P9:27:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
174:PC:12:DC:C6	174:PC:13:DT:H72	2.54	0.43
175:PD:14:DT:C2'	175:PD:15:DT:H72	2.48	0.43
177:Q3:16:DA:H2'	177:Q3:17:DT:H72	1.99	0.43
177:Q3:24:DA:H2'	177:Q3:25:DT:H72	2.00	0.43
178:Q5:20:DT:C2'	178:Q5:21:DT:H72	2.48	0.43
181:Q9:11:DT:C2'	184:QD:22:DT:H72	2.48	0.43
185:R2:13:DC:C6	185:R2:14:DT:H72	2.54	0.43
186:R3:14:DT:H72	204:T3:7:DC:C6	2.54	0.43
188:R7:25:DG:H1'	188:R7:26:DT:H5'	2.00	0.43
189:R8:11:DA:H2'	189:R8:12:DT:H72	2.00	0.43
190:R9:33:DA:H2'	190:R9:34:DT:H72	2.00	0.43
190:R9:35:DA:H2'	190:R9:36:DT:H72	2.00	0.43
198:S8:10:DT:C2'	198:S8:11:DT:H72	2.48	0.43
208:T9:5:DA:H2'	208:T9:6:DT:H72	2.00	0.43
216:U8:5:DG:H1'	216:U8:6:DT:H5'	2.00	0.43
220:UD:1:DC:C6	220:UD:2:DT:H72	2.54	0.43
221:V2:7:DG:H1'	221:V2:8:DT:H5'	2.00	0.43
226:V9:16:DG:H1'	226:V9:17:DT:H5'	2.00	0.43
228:VC:36:DA:H2'	228:VC:37:DT:H72	2.00	0.43
230:W3:10:DA:H2'	230:W3:11:DT:H72	2.00	0.43
232:W7:13:DT:C2'	232:W7:14:DT:H72	2.48	0.43
235:WD:19:DT:C2'	235:WD:20:DT:H72	2.48	0.43
236:X5:24:DA:H2'	236:X5:25:DT:H72	2.00	0.43
2:A2:16:DT:C2'	2:A2:17:DT:H72	2.48	0.43
2:A2:18:DT:H72	206:T7:45:DT:C2'	2.48	0.43
9:A9:14:DT:C2'	9:A9:15:DT:H72	2.48	0.43
11:AB:65:DT:C2'	11:AB:66:DT:H72	2.48	0.43
11:AB:135:DT:C2'	11:AB:136:DT:H72	2.48	0.43
11:AB:165:DT:C2'	11:AB:166:DT:H72	2.48	0.43
11:AB:331:DT:C2'	11:AB:332:DT:H72	2.48	0.43
11:AB:397:DC:C6	11:AB:398:DT:H72	2.54	0.43
11:AB:403:DA:H2'	11:AB:404:DT:H72	2.00	0.43
11:AB:418:DC:C6	11:AB:419:DT:H72	2.54	0.43
11:AB:446:DT:C2'	11:AB:447:DT:H72	2.48	0.43
11:AB:469:DC:C6	11:AB:470:DT:H72	2.54	0.43
11:AB:490:DC:C6	11:AB:491:DT:H72	2.54	0.43
11:AB:506:DT:C2'	11:AB:507:DT:H72	2.48	0.43
11:AB:574:DC:C6	11:AB:575:DT:H72	2.54	0.43
11:AB:616:DA:H2'	11:AB:617:DT:H72	2.00	0.43
11:AB:679:DC:C6	11:AB:680:DT:H72	2.54	0.43
11:AB:687:DG:H1'	11:AB:688:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:733:DA:H2'	11:AB:734:DT:H72	2.00	0.43
11:AB:764:DC:C6	11:AB:765:DT:H72	2.54	0.43
11:AB:795:DT:C2'	11:AB:796:DT:H72	2.48	0.43
11:AB:802:DT:C2'	11:AB:803:DT:H72	2.48	0.43
11:AB:835:DC:C6	11:AB:836:DT:H72	2.54	0.43
11:AB:871:DG:H1'	11:AB:872:DT:H5'	2.00	0.43
11:AB:889:DC:C6	11:AB:890:DT:H72	2.54	0.43
11:AB:934:DC:C6	11:AB:935:DT:H72	2.54	0.43
11:AB:947:DT:C2'	11:AB:948:DT:H72	2.48	0.43
11:AB:959:DC:C6	11:AB:960:DT:H72	2.54	0.43
11:AB:961:DC:C6	11:AB:962:DT:H72	2.54	0.43
11:AB:982:DA:H2'	11:AB:983:DT:H72	2.00	0.43
11:AB:1024:DA:H2'	11:AB:1025:DT:H72	2.00	0.43
11:AB:1072:DC:C6	11:AB:1073:DT:H72	2.54	0.43
11:AB:1101:DG:H1'	11:AB:6398:DT:H5'	2.00	0.43
11:AB:1198:DG:H1'	11:AB:1199:DT:H5'	2.00	0.43
11:AB:1210:DC:C6	11:AB:1211:DT:H72	2.54	0.43
11:AB:1258:DT:C2'	11:AB:1259:DT:H72	2.48	0.43
11:AB:1279:DT:C2'	11:AB:1280:DT:H72	2.48	0.43
11:AB:1304:DT:C2'	11:AB:1305:DT:H72	2.48	0.43
11:AB:1382:DA:H2'	11:AB:1383:DT:H72	2.00	0.43
11:AB:1384:DT:C2'	11:AB:1385:DT:H72	2.48	0.43
11:AB:1478:DC:C6	11:AB:1479:DT:H72	2.54	0.43
11:AB:1490:DT:C2'	11:AB:1491:DT:H72	2.48	0.43
11:AB:1506:DC:C6	11:AB:1507:DT:H72	2.54	0.43
11:AB:1544:DA:H2'	11:AB:1545:DT:H72	2.00	0.43
11:AB:1565:DA:H2'	11:AB:1566:DT:H72	2.00	0.43
11:AB:1614:DC:C6	11:AB:1615:DT:H72	2.54	0.43
11:AB:1641:DG:H1'	11:AB:1642:DT:H5'	2.00	0.43
11:AB:1685:DG:H1'	11:AB:1686:DT:H5'	2.00	0.43
11:AB:1718:DT:C2'	11:AB:1719:DT:H72	2.48	0.43
11:AB:1930:DT:C2'	11:AB:1931:DT:H72	2.48	0.43
11:AB:1938:DA:H2'	11:AB:1939:DT:H72	2.00	0.43
11:AB:2140:DT:C2'	11:AB:2141:DT:H72	2.48	0.43
11:AB:2147:DC:C6	11:AB:2148:DT:H72	2.54	0.43
11:AB:2185:DC:C6	11:AB:2186:DT:H72	2.54	0.43
11:AB:2194:DT:C2'	11:AB:2195:DT:H72	2.48	0.43
11:AB:2224:DC:C6	11:AB:2225:DT:H72	2.54	0.43
11:AB:2271:DA:H2'	11:AB:2272:DT:H72	2.00	0.43
11:AB:2306:DA:H2'	11:AB:2307:DT:H72	2.00	0.43
11:AB:2346:DC:C6	11:AB:2347:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2422:DA:H2'	11:AB:2423:DT:H72	2.00	0.43
11:AB:2528:DT:H72	11:AB:5283:DC:C6	2.54	0.43
11:AB:2533:DG:H1'	11:AB:2534:DT:H5'	2.00	0.43
11:AB:2535:DC:C6	11:AB:2536:DT:H72	2.54	0.43
11:AB:2611:DC:C6	11:AB:2612:DT:H72	2.54	0.43
11:AB:2634:DT:C2'	11:AB:2635:DT:H72	2.48	0.43
11:AB:2658:DC:C6	11:AB:2659:DT:H72	2.54	0.43
11:AB:2759:DA:H2'	11:AB:2760:DT:H72	2.00	0.43
11:AB:2823:DC:C6	11:AB:2824:DT:H72	2.54	0.43
11:AB:2881:DC:C6	11:AB:2882:DT:H72	2.54	0.43
11:AB:2930:DT:C2'	11:AB:2931:DT:H72	2.48	0.43
11:AB:2936:DC:C6	11:AB:2937:DT:H72	2.54	0.43
11:AB:2966:DA:H2'	11:AB:2967:DT:H72	2.00	0.43
11:AB:3128:DA:H2'	11:AB:3129:DT:H72	2.00	0.43
11:AB:3160:DT:C2'	11:AB:3161:DT:H72	2.48	0.43
11:AB:3203:DA:H2'	11:AB:3204:DT:H72	2.00	0.43
11:AB:3233:DT:C2'	11:AB:3234:DT:H72	2.48	0.43
11:AB:3280:DT:C2'	11:AB:3281:DT:H72	2.48	0.43
11:AB:3361:DG:H1'	11:AB:3362:DT:H5'	2.00	0.43
11:AB:3434:DT:C2'	11:AB:3435:DT:H72	2.48	0.43
11:AB:3535:DT:C2'	11:AB:3536:DT:H72	2.48	0.43
11:AB:3614:DT:C2'	11:AB:3615:DT:H72	2.48	0.43
11:AB:3622:DC:C6	11:AB:3623:DT:H72	2.54	0.43
11:AB:3791:DT:H5'	11:AB:4462:DG:H1'	2.00	0.43
11:AB:3830:DC:C6	11:AB:3831:DT:H72	2.54	0.43
11:AB:3847:DG:H1'	11:AB:3848:DT:H5'	2.00	0.43
11:AB:3851:DT:C2'	11:AB:3852:DT:H72	2.48	0.43
11:AB:3950:DC:C6	11:AB:3951:DT:H72	2.54	0.43
11:AB:4039:DC:C6	11:AB:4040:DT:H72	2.54	0.43
11:AB:4068:DG:H1'	11:AB:4069:DT:H5'	2.00	0.43
11:AB:4119:DC:C6	11:AB:4120:DT:H72	2.54	0.43
11:AB:4205:DC:C6	11:AB:4206:DT:H72	2.54	0.43
11:AB:4242:DC:C6	11:AB:4243:DT:H72	2.54	0.43
11:AB:4349:DT:C2'	11:AB:4350:DT:H72	2.48	0.43
11:AB:4406:DC:C6	11:AB:4407:DT:H72	2.54	0.43
11:AB:4412:DA:H2'	11:AB:4413:DT:H72	2.00	0.43
11:AB:4425:DT:C2'	11:AB:4426:DT:H72	2.48	0.43
11:AB:4504:DC:C6	11:AB:4505:DT:H72	2.54	0.43
11:AB:4612:DA:H2'	11:AB:4613:DT:H72	2.00	0.43
11:AB:4723:DA:H2'	11:AB:4724:DT:H72	2.00	0.43
11:AB:4953:DG:H1'	11:AB:4954:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5212:DC:C6	11:AB:5213:DT:H72	2.54	0.43
11:AB:5222:DT:C2'	11:AB:5223:DT:H72	2.48	0.43
11:AB:5305:DA:H2'	11:AB:5306:DT:H72	2.00	0.43
11:AB:5347:DT:C2'	11:AB:5348:DT:H72	2.48	0.43
11:AB:5478:DC:C6	11:AB:5479:DT:H72	2.54	0.43
11:AB:5596:DC:C6	11:AB:5597:DT:H72	2.54	0.43
11:AB:5598:DT:C2'	11:AB:5599:DT:H72	2.48	0.43
11:AB:5600:DC:C6	11:AB:5601:DT:H72	2.54	0.43
11:AB:5609:DT:C2'	11:AB:5610:DT:H72	2.48	0.43
11:AB:5617:DT:C2'	11:AB:5618:DT:H72	2.48	0.43
11:AB:5645:DT:C2'	11:AB:5646:DT:H72	2.48	0.43
11:AB:5751:DT:C2'	11:AB:5752:DT:H72	2.48	0.43
11:AB:5783:DC:C6	11:AB:5784:DT:H72	2.54	0.43
11:AB:5786:DA:H2'	11:AB:5787:DT:H72	2.00	0.43
11:AB:5804:DA:H2'	11:AB:5805:DT:H72	2.00	0.43
11:AB:5807:DA:H2'	11:AB:5808:DT:H72	2.00	0.43
11:AB:5897:DT:C2'	11:AB:5898:DT:H72	2.48	0.43
11:AB:5916:DA:H2'	11:AB:5917:DT:H72	2.00	0.43
11:AB:5930:DC:C6	11:AB:5931:DT:H72	2.54	0.43
11:AB:5998:DT:C2'	11:AB:5999:DT:H72	2.48	0.43
11:AB:6075:DC:C6	11:AB:6076:DT:H72	2.54	0.43
11:AB:6093:DA:H2'	11:AB:6094:DT:H72	2.00	0.43
11:AB:6118:DC:C6	11:AB:6119:DT:H72	2.54	0.43
11:AB:6147:DC:C6	11:AB:6148:DT:H72	2.54	0.43
11:AB:6202:DC:C6	11:AB:6203:DT:H72	2.54	0.43
11:AB:6281:DT:C2'	11:AB:6282:DT:H72	2.48	0.43
11:AB:6312:DT:C2'	11:AB:6313:DT:H72	2.48	0.43
11:AB:6320:DA:H2'	11:AB:6321:DT:H72	2.00	0.43
11:AB:6466:DC:C6	11:AB:6467:DT:H72	2.54	0.43
11:AB:6476:DC:C6	11:AB:6477:DT:H72	2.54	0.43
11:AB:6805:DC:C6	11:AB:6806:DT:H72	2.54	0.43
11:AB:6884:DT:C2'	11:AB:6885:DT:H72	2.48	0.43
11:AB:7009:DA:H2'	11:AB:7010:DT:H72	2.00	0.43
11:AB:7038:DG:H1'	11:AB:7039:DT:H5'	2.00	0.43
11:AB:7091:DG:H1'	11:AB:7092:DT:H5'	2.00	0.43
11:AB:7129:DG:H1'	11:AB:7130:DT:H5'	2.00	0.43
11:AB:7131:DC:C6	11:AB:7132:DT:H72	2.54	0.43
11:AB:7147:DC:C6	11:AB:7148:DT:H72	2.54	0.43
11:AB:7158:DT:C2'	11:AB:7159:DT:H72	2.48	0.43
11:AB:7188:DC:C6	11:AB:7189:DT:H72	2.54	0.43
23:BA:31:DA:H2'	23:BA:32:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:C1:14:DC:C6	26:C1:15:DT:H72	2.54	0.43
26:C1:23:DT:C2'	26:C1:24:DT:H72	2.48	0.43
44:D9:5:DA:H2'	44:D9:6:DT:H72	2.00	0.43
47:DD:21:DA:H2'	47:DD:22:DT:H72	2.00	0.43
49:E2:21:DT:C2'	49:E2:22:DT:H72	2.48	0.43
49:E2:23:DT:C2'	96:I6:1:DT:H72	2.48	0.43
54:E8:6:DC:C6	54:E8:7:DT:H72	2.54	0.43
54:E8:21:DC:C6	54:E8:22:DT:H72	2.54	0.43
54:E8:29:DC:C6	54:E8:30:DT:H72	2.54	0.43
55:E9:35:DA:H2'	55:E9:36:DT:H72	2.00	0.43
56:EA:12:DG:H1'	56:EA:13:DT:H5'	2.00	0.43
62:F5:30:DT:C2'	62:F5:31:DT:H72	2.48	0.43
64:F7:12:DC:C6	64:F7:13:DT:H72	2.54	0.43
67:FA:29:DC:C6	67:FA:30:DT:H72	2.54	0.43
68:FC:8:DA:H2'	68:FC:9:DT:H72	1.99	0.43
71:G2:6:DC:C6	71:G2:7:DT:H72	2.54	0.43
78:GA:3:DG:H1'	78:GA:4:DT:H5'	2.00	0.43
84:H5:25:DC:C6	84:H5:26:DT:H72	2.54	0.43
91:HD:6:DA:H2'	91:HD:7:DT:H72	2.00	0.43
91:HD:9:DT:C2'	91:HD:10:DT:H72	2.48	0.43
92:I1:24:DC:C6	92:I1:25:DT:H72	2.54	0.43
93:I2:10:DA:H2'	93:I2:11:DT:H72	2.00	0.43
93:I2:26:DC:C6	93:I2:27:DT:H72	2.54	0.43
109:J8:36:DT:H72	232:W7:27:DT:C2'	2.48	0.43
109:J8:47:DC:C6	109:J8:48:DT:H72	2.54	0.43
111:JA:15:DC:C6	111:JA:16:DT:H72	2.54	0.43
113:JD:15:DT:H5'	132:L9:14:DG:H1'	2.00	0.43
115:K2:21:DC:C6	115:K2:22:DT:H72	2.54	0.43
118:K6:6:DT:C2'	118:K6:7:DT:H72	2.48	0.43
119:K7:5:DA:H2'	119:K7:6:DT:H72	1.99	0.43
127:L3:5:DC:C6	127:L3:6:DT:H72	2.54	0.43
127:L3:14:DT:C2'	211:TD:29:DT:H72	2.48	0.43
128:L5:12:DA:H2'	128:L5:13:DT:H72	2.00	0.43
129:L6:19:DT:C2'	129:L6:20:DT:H72	2.48	0.43
129:L6:21:DC:C6	129:L6:22:DT:H72	2.54	0.43
138:M5:17:DA:H2'	138:M5:18:DT:H72	2.00	0.43
141:M8:28:DT:C2'	141:M8:29:DT:H72	2.48	0.43
145:MD:30:DT:C2'	173:PA:22:DT:H72	2.48	0.43
147:N3:14:DT:C2'	147:N3:15:DT:H72	2.48	0.43
155:ND:3:DG:H1'	155:ND:4:DT:H5'	2.00	0.43
156:O2:3:DA:H2'	156:O2:4:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
156:O2:33:DC:C6	156:O2:34:DT:H72	2.54	0.43
161:O8:4:DT:C2'	183:QC:24:DT:H72	2.48	0.43
161:O8:14:DG:H1'	161:O8:15:DT:H5'	2.00	0.43
162:O9:13:DT:C2'	191:RA:28:DT:H72	2.48	0.43
162:O9:18:DC:C6	162:O9:19:DT:H72	2.54	0.43
169:P6:20:DC:C6	169:P6:21:DT:H72	2.54	0.43
171:P8:23:DT:C2'	171:P8:24:DT:H72	2.48	0.43
174:PC:17:DA:H2'	174:PC:18:DT:H72	2.00	0.43
178:Q5:36:DT:H72	214:U5:14:DT:C2'	2.48	0.43
181:Q9:10:DT:C2'	181:Q9:11:DT:H72	2.48	0.43
187:R5:15:DT:H72	223:V5:34:DT:C2'	2.48	0.43
189:R8:33:DT:C2'	189:R8:34:DT:H72	2.48	0.43
195:S3:18:DA:H2'	195:S3:19:DT:H72	2.00	0.43
204:T3:26:DC:C6	204:T3:27:DT:H72	2.54	0.43
214:U5:22:DC:C6	214:U5:23:DT:H72	2.54	0.43
217:U9:14:DT:C2'	217:U9:15:DT:H72	2.48	0.43
217:U9:26:DT:C2'	217:U9:27:DT:H72	2.48	0.43
222:V3:1:DA:H2'	222:V3:2:DT:H72	2.00	0.43
226:V9:8:DA:H2'	226:V9:9:DT:H72	2.00	0.43
228:VC:9:DG:H1'	228:VC:10:DT:H5'	2.00	0.43
235:WD:12:DG:H1'	235:WD:13:DT:H5'	2.00	0.43
236:X5:15:DT:C2'	236:X5:16:DT:H72	2.48	0.43
1:A1:18:DT:C2'	1:A1:19:DT:H72	2.48	0.43
2:A2:15:DT:C2'	2:A2:16:DT:H72	2.48	0.43
7:A7:37:DC:C6	7:A7:38:DT:H72	2.54	0.43
11:AB:26:DG:H1'	11:AB:27:DT:H5'	2.00	0.43
11:AB:118:DC:C6	11:AB:119:DT:H72	2.54	0.43
11:AB:253:DT:C2'	11:AB:254:DT:H72	2.48	0.43
11:AB:312:DC:C6	11:AB:313:DT:H72	2.54	0.43
11:AB:362:DT:C2'	11:AB:363:DT:H72	2.48	0.43
11:AB:393:DA:H2'	11:AB:394:DT:H72	2.00	0.43
11:AB:433:DC:C6	11:AB:434:DT:H72	2.54	0.43
11:AB:559:DC:C6	11:AB:560:DT:H72	2.54	0.43
11:AB:619:DA:H2'	11:AB:620:DT:H72	2.00	0.43
11:AB:712:DC:C6	11:AB:713:DT:H72	2.54	0.43
11:AB:769:DC:C6	11:AB:770:DT:H72	2.54	0.43
11:AB:811:DA:H2'	11:AB:812:DT:H72	2.00	0.43
11:AB:964:DG:H1'	11:AB:965:DT:H5'	2.00	0.43
11:AB:1144:DG:H1'	11:AB:1145:DT:H5'	2.00	0.43
11:AB:1159:DT:C2'	11:AB:1160:DT:H72	2.48	0.43
11:AB:1169:DT:H72	11:AB:6338:DC:C6	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1240:DC:C6	11:AB:1241:DT:H72	2.54	0.43
11:AB:1270:DC:C6	11:AB:1271:DT:H72	2.54	0.43
11:AB:1380:DG:H1'	11:AB:1381:DT:H5'	2.00	0.43
11:AB:1424:DA:H2'	11:AB:1425:DT:H72	2.00	0.43
11:AB:1557:DT:C2'	11:AB:1558:DT:H72	2.48	0.43
11:AB:1583:DA:H2'	11:AB:6122:DT:H72	2.00	0.43
11:AB:1598:DC:C6	11:AB:1599:DT:H72	2.54	0.43
11:AB:1695:DC:C6	11:AB:1696:DT:H72	2.54	0.43
11:AB:1724:DG:H1'	11:AB:1725:DT:H5'	2.00	0.43
11:AB:1765:DA:H2'	11:AB:1766:DT:H72	2.00	0.43
11:AB:1872:DC:C6	11:AB:1873:DT:H72	2.54	0.43
11:AB:1893:DC:C6	11:AB:1894:DT:H72	2.54	0.43
11:AB:1915:DC:C6	11:AB:1916:DT:H72	2.54	0.43
11:AB:1954:DC:C6	11:AB:1955:DT:H72	2.54	0.43
11:AB:1956:DA:H2'	11:AB:1957:DT:H72	2.00	0.43
11:AB:2088:DA:H2'	11:AB:2089:DT:H72	2.00	0.43
11:AB:2110:DG:H1'	11:AB:2111:DT:H5'	2.00	0.43
11:AB:2225:DT:C2'	11:AB:2226:DT:H72	2.48	0.43
11:AB:2242:DC:C6	11:AB:2243:DT:H72	2.54	0.43
11:AB:2366:DG:H1'	11:AB:2367:DT:H5'	2.00	0.43
11:AB:2383:DC:C6	11:AB:2384:DT:H72	2.54	0.43
11:AB:2418:DG:H1'	11:AB:2419:DT:H5'	2.00	0.43
11:AB:2767:DT:C2'	11:AB:2768:DT:H72	2.48	0.43
11:AB:2804:DA:H2'	11:AB:2805:DT:H72	2.00	0.43
11:AB:3008:DT:C2'	11:AB:3009:DT:H72	2.48	0.43
11:AB:3036:DT:H72	11:AB:4991:DC:C6	2.54	0.43
11:AB:3053:DC:C6	11:AB:3054:DT:H72	2.54	0.43
11:AB:3108:DA:H2'	11:AB:3109:DT:H72	2.00	0.43
11:AB:3155:DG:H1'	11:AB:3156:DT:H5'	2.00	0.43
11:AB:3260:DC:C6	11:AB:3261:DT:H72	2.54	0.43
11:AB:3277:DG:H1'	11:AB:3278:DT:H5'	2.00	0.43
11:AB:3294:DC:C6	11:AB:3295:DT:H72	2.54	0.43
11:AB:3311:DT:C2'	11:AB:3312:DT:H72	2.48	0.43
11:AB:3320:DC:C6	11:AB:3321:DT:H72	2.54	0.43
11:AB:3348:DA:H2'	11:AB:3349:DT:H72	2.00	0.43
11:AB:3353:DT:C2'	11:AB:3354:DT:H72	2.48	0.43
11:AB:3446:DC:C6	11:AB:3447:DT:H72	2.54	0.43
11:AB:3509:DC:C6	11:AB:3510:DT:H72	2.54	0.43
11:AB:3624:DT:C2'	11:AB:3625:DT:H72	2.48	0.43
11:AB:3760:DT:C2'	11:AB:3761:DT:H72	2.48	0.43
11:AB:3766:DG:H1'	11:AB:3767:DT:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3819:DT:C2'	11:AB:3820:DT:H72	2.48	0.43
11:AB:3833:DC:C6	11:AB:3834:DT:H72	2.54	0.43
11:AB:3923:DC:C6	11:AB:3924:DT:H72	2.54	0.43
11:AB:4012:DT:H72	11:AB:4347:DC:C6	2.54	0.43
11:AB:4013:DC:C6	11:AB:4014:DT:H72	2.54	0.43
11:AB:4146:DC:C6	11:AB:4147:DT:H72	2.54	0.43
11:AB:4159:DC:C6	11:AB:4160:DT:H72	2.54	0.43
11:AB:4190:DT:C2'	11:AB:4191:DT:H72	2.48	0.43
11:AB:4217:DC:C6	11:AB:4218:DT:H72	2.54	0.43
11:AB:4278:DG:H1'	11:AB:4279:DT:H5'	2.00	0.43
11:AB:4362:DC:C6	11:AB:4363:DT:H72	2.54	0.43
11:AB:4414:DT:C2'	11:AB:4415:DT:H72	2.48	0.43
11:AB:4467:DC:C6	11:AB:4468:DT:H72	2.54	0.43
11:AB:4617:DT:C2'	11:AB:4618:DT:H72	2.48	0.43
11:AB:4727:DT:C2'	11:AB:4728:DT:H72	2.48	0.43
11:AB:4793:DA:H2'	11:AB:4794:DT:H72	2.00	0.43
11:AB:4827:DC:C6	11:AB:4828:DT:H72	2.54	0.43
11:AB:4834:DG:H1'	11:AB:4835:DT:H5'	2.00	0.43
11:AB:4840:DC:C6	11:AB:4841:DT:H72	2.54	0.43
11:AB:4938:DC:C6	11:AB:4939:DT:H72	2.54	0.43
11:AB:4984:DT:C2'	11:AB:4985:DT:H72	2.48	0.43
11:AB:5076:DT:C2'	11:AB:5077:DT:H72	2.48	0.43
11:AB:5093:DG:H1'	11:AB:5094:DT:H5'	2.00	0.43
11:AB:5155:DC:C6	11:AB:5156:DT:H72	2.54	0.43
11:AB:5162:DA:H2'	11:AB:5163:DT:H72	2.00	0.43
11:AB:5196:DA:H2'	11:AB:5197:DT:H72	2.00	0.43
11:AB:5228:DG:H1'	11:AB:5229:DT:H5'	2.00	0.43
11:AB:5271:DT:C2'	11:AB:5272:DT:H72	2.48	0.43
11:AB:5302:DC:C6	11:AB:5303:DT:H72	2.54	0.43
11:AB:5392:DC:C6	11:AB:5393:DT:H72	2.54	0.43
11:AB:5397:DC:C6	11:AB:5398:DT:H72	2.54	0.43
11:AB:5464:DG:H1'	11:AB:5465:DT:H5'	2.00	0.43
11:AB:5511:DC:C6	11:AB:5512:DT:H72	2.54	0.43
11:AB:5557:DG:H1'	11:AB:5558:DT:H5'	2.00	0.43
11:AB:5661:DT:C2'	11:AB:5662:DT:H72	2.48	0.43
11:AB:5678:DC:C6	11:AB:5679:DT:H72	2.54	0.43
11:AB:5699:DC:C6	11:AB:5700:DT:H72	2.54	0.43
11:AB:5769:DA:H2'	11:AB:5770:DT:H72	2.00	0.43
11:AB:5796:DT:C2'	11:AB:5797:DT:H72	2.48	0.43
11:AB:5802:DG:H1'	11:AB:5803:DT:H5'	2.00	0.43
11:AB:5831:DC:C6	11:AB:5832:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5853:DC:C6	11:AB:5854:DT:H72	2.54	0.43
11:AB:5936:DC:C6	11:AB:5937:DT:H72	2.54	0.43
11:AB:6025:DC:C6	11:AB:6026:DT:H72	2.54	0.43
11:AB:6194:DC:C6	11:AB:6195:DT:H72	2.54	0.43
11:AB:6276:DC:C6	11:AB:6277:DT:H72	2.54	0.43
11:AB:6301:DT:C2'	11:AB:6302:DT:H72	2.48	0.43
11:AB:6326:DA:H2'	11:AB:6327:DT:H72	2.00	0.43
11:AB:6398:DT:C2'	11:AB:6399:DT:H72	2.48	0.43
11:AB:6419:DT:C2'	11:AB:6420:DT:H72	2.48	0.43
11:AB:6470:DC:C6	11:AB:6471:DT:H72	2.54	0.43
11:AB:6678:DA:H2'	11:AB:6679:DT:H72	2.00	0.43
11:AB:6688:DC:C6	11:AB:6689:DT:H72	2.54	0.43
11:AB:6761:DT:C2'	11:AB:6762:DT:H72	2.48	0.43
11:AB:6801:DA:H2'	11:AB:6802:DT:H72	2.00	0.43
11:AB:6807:DC:C6	11:AB:6808:DT:H72	2.54	0.43
11:AB:6849:DG:H1'	11:AB:6850:DT:H5'	2.00	0.43
11:AB:6855:DC:C6	11:AB:6856:DT:H72	2.54	0.43
11:AB:7000:DC:C6	11:AB:7001:DT:H72	2.54	0.43
11:AB:7030:DG:H1'	11:AB:7031:DT:H5'	2.00	0.43
11:AB:7043:DT:C2'	11:AB:7044:DT:H72	2.48	0.43
11:AB:7059:DG:H1'	11:AB:7060:DT:H5'	2.00	0.43
11:AB:7081:DG:H1'	11:AB:7082:DT:H5'	2.00	0.43
11:AB:7093:DA:H2'	11:AB:7094:DT:H72	2.00	0.43
11:AB:7107:DA:H2'	11:AB:7108:DT:H72	2.00	0.43
11:AB:7115:DT:C2'	11:AB:7116:DT:H72	2.48	0.43
11:AB:7161:DC:C6	11:AB:7162:DT:H72	2.54	0.43
13:AD:34:DC:C6	13:AD:35:DT:H72	2.54	0.43
14:B1:7:DG:H1'	117:K5:26:DT:H5'	2.00	0.43
21:B8:3:DC:C6	21:B8:4:DT:H72	2.54	0.43
22:B9:38:DC:C6	22:B9:39:DT:H72	2.54	0.43
26:C1:4:DG:H1'	26:C1:5:DT:H5'	2.00	0.43
26:C1:12:DT:H72	84:H5:12:DT:C2'	2.48	0.43
27:C2:21:DC:C6	27:C2:22:DT:H72	2.54	0.43
40:D5:16:DT:C2'	231:W5:28:DT:H72	2.48	0.43
41:D6:45:DC:C6	41:D6:46:DT:H72	2.54	0.43
42:D7:9:DG:H1'	42:D7:10:DT:H5'	2.00	0.43
49:E2:14:DA:H2'	49:E2:15:DT:H72	2.00	0.43
49:E2:20:DA:H2'	49:E2:21:DT:H72	2.00	0.43
57:EC:6:DT:C2'	57:EC:7:DT:H72	2.48	0.43
58:ED:40:DA:H2'	58:ED:41:DT:H72	2.00	0.43
60:F2:9:DT:C2'	60:F2:10:DT:H72	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:F5:20:DC:C6	62:F5:21:DT:H72	2.54	0.43
72:G3:1:DT:H72	83:H3:7:DT:C2'	2.48	0.43
75:G7:6:DC:C6	75:G7:7:DT:H72	2.54	0.43
77:G9:13:DA:H2'	77:G9:14:DT:H72	2.00	0.43
77:G9:15:DT:C2'	77:G9:16:DT:H72	2.48	0.43
83:H3:16:DC:C6	83:H3:17:DT:H72	2.54	0.43
84:H5:7:DG:H1'	84:H5:8:DT:H5'	2.00	0.43
86:H7:24:DG:H1'	140:M7:1:DT:H5'	2.00	0.43
97:I7:12:DT:C2'	97:I7:13:DT:H72	2.48	0.43
99:I9:18:DC:C6	99:I9:19:DT:H72	2.54	0.43
101:IC:23:DC:C6	101:IC:24:DT:H72	2.54	0.43
103:J1:27:DT:C2'	103:J1:28:DT:H72	2.48	0.43
105:J3:6:DT:C2'	105:J3:7:DT:H72	2.48	0.43
105:J3:24:DA:H2'	105:J3:25:DT:H72	2.00	0.43
108:J7:51:DC:C6	108:J7:52:DT:H72	2.54	0.43
115:K2:11:DG:H1'	115:K2:12:DT:H5'	2.00	0.43
117:K5:30:DT:C2'	117:K5:31:DT:H72	2.48	0.43
118:K6:20:DT:C2'	118:K6:21:DT:H72	2.48	0.43
122:KA:19:DA:H2'	122:KA:20:DT:H72	2.00	0.43
124:KD:7:DC:C6	124:KD:8:DT:H72	2.54	0.43
125:L1:45:DG:H1'	125:L1:46:DT:H5'	2.00	0.43
136:M2:4:DA:H2'	136:M2:5:DT:H72	2.00	0.43
139:M6:8:DA:H2'	139:M6:9:DT:H72	2.00	0.43
141:M8:19:DC:C6	141:M8:20:DT:H72	2.54	0.43
144:MC:13:DG:H1'	144:MC:14:DT:H5'	2.00	0.43
145:MD:25:DC:C6	145:MD:26:DT:H72	2.54	0.43
148:N5:9:DT:C2'	148:N5:10:DT:H72	2.48	0.43
152:N9:35:DA:H2'	152:N9:36:DT:H72	2.00	0.43
160:O7:21:DC:C6	160:O7:22:DT:H72	2.54	0.43
167:P3:6:DT:C2'	167:P3:7:DT:H72	2.48	0.43
171:P8:22:DT:C2'	171:P8:23:DT:H72	2.48	0.43
174:PC:8:DC:C6	174:PC:9:DT:H72	2.54	0.43
177:Q3:5:DG:H1'	177:Q3:6:DT:H5'	2.00	0.43
178:Q5:30:DG:H1'	178:Q5:31:DT:H5'	2.00	0.43
181:Q9:9:DT:C2'	181:Q9:10:DT:H72	2.48	0.43
188:R7:26:DT:C2'	188:R7:27:DT:H72	2.48	0.43
190:R9:15:DA:H2'	190:R9:16:DT:H72	2.00	0.43
192:RC:14:DA:H2'	192:RC:15:DT:H72	2.00	0.43
192:RC:25:DA:H2'	192:RC:26:DT:H72	2.00	0.43
193:RD:9:DA:H2'	193:RD:10:DT:H72	2.00	0.43
195:S3:11:DC:C6	195:S3:12:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
196:S5:24:DC:C6	196:S5:25:DT:H72	2.54	0.43
199:S9:17:DT:H5'	226:V9:4:DG:H1'	2.00	0.43
202:SD:12:DC:C6	202:SD:13:DT:H72	2.54	0.43
207:T8:19:DG:H1'	207:T8:20:DT:H5'	2.00	0.43
208:T9:18:DC:C6	208:T9:19:DT:H72	2.54	0.43
211:TD:17:DG:H1'	211:TD:18:DT:H5'	2.00	0.43
211:TD:32:DA:H2'	211:TD:33:DT:H72	2.00	0.43
225:V8:15:DA:H2'	225:V8:16:DT:H72	2.00	0.43
226:V9:26:DA:H2'	226:V9:27:DT:H72	2.00	0.43
230:W3:24:DT:C2'	230:W3:25:DT:H72	2.48	0.43
230:W3:31:DC:C6	230:W3:32:DT:H72	2.54	0.43
231:W5:8:DG:H1'	231:W5:9:DT:H5'	2.00	0.43
232:W7:23:DG:H1'	232:W7:24:DT:H5'	2.00	0.43
237:X7:3:DT:C2'	237:X7:4:DT:H72	2.48	0.43
2:A2:14:DC:C6	2:A2:15:DT:H72	2.54	0.43
4:A4:25:DG:H1'	4:A4:26:DT:H5'	2.00	0.43
5:A5:32:DC:C6	5:A5:33:DT:H72	2.54	0.43
11:AB:133:DT:C2'	11:AB:134:DT:H72	2.48	0.43
11:AB:144:DT:C2'	11:AB:145:DT:H72	2.48	0.43
11:AB:460:DG:H1'	11:AB:461:DT:H5'	2.00	0.43
11:AB:481:DG:H1'	11:AB:482:DT:H5'	2.00	0.43
11:AB:500:DC:C6	11:AB:501:DT:H72	2.54	0.43
11:AB:601:DC:C6	11:AB:602:DT:H72	2.54	0.43
11:AB:644:DA:H2'	11:AB:645:DT:H72	2.00	0.43
11:AB:664:DC:C6	11:AB:665:DT:H72	2.54	0.43
11:AB:666:DG:H1'	11:AB:667:DT:H5'	2.00	0.43
11:AB:778:DC:C6	11:AB:779:DT:H72	2.54	0.43
11:AB:841:DC:C6	11:AB:842:DT:H72	2.54	0.43
11:AB:902:DC:C6	11:AB:903:DT:H72	2.54	0.43
11:AB:925:DG:H1'	11:AB:926:DT:H5'	2.00	0.43
11:AB:973:DA:H2'	11:AB:974:DT:H72	2.00	0.43
11:AB:1003:DA:H2'	11:AB:1004:DT:H72	2.00	0.43
11:AB:1046:DG:H1'	11:AB:1047:DT:H5'	2.00	0.43
11:AB:1048:DC:C6	11:AB:1049:DT:H72	2.54	0.43
11:AB:1147:DC:C6	11:AB:1148:DT:H72	2.54	0.43
11:AB:1236:DT:C2'	11:AB:1237:DT:H72	2.48	0.43
11:AB:1245:DC:C6	11:AB:1246:DT:H72	2.54	0.43
11:AB:1275:DG:H1'	11:AB:1276:DT:H5'	2.00	0.43
11:AB:1331:DA:H2'	11:AB:1332:DT:H72	2.00	0.43
11:AB:1336:DG:H1'	11:AB:1337:DT:H5'	2.00	0.43
11:AB:1354:DT:C2'	11:AB:1355:DT:H72	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1391:DG:H1'	11:AB:1392:DT:H5'	2.00	0.43
11:AB:1436:DC:C6	11:AB:1437:DT:H72	2.54	0.43
11:AB:1470:DG:H1'	11:AB:1471:DT:H5'	2.00	0.43
11:AB:1475:DC:C6	11:AB:1476:DT:H72	2.54	0.43
11:AB:1546:DT:C2'	11:AB:1547:DT:H72	2.48	0.43
11:AB:1552:DG:H1'	11:AB:1553:DT:H5'	2.00	0.43
11:AB:1560:DC:C6	11:AB:1561:DT:H72	2.54	0.43
11:AB:1589:DG:H1'	11:AB:1590:DT:H5'	2.00	0.43
11:AB:1593:DG:H1'	11:AB:1594:DT:H5'	2.00	0.43
11:AB:1655:DC:C6	11:AB:1656:DT:H72	2.54	0.43
11:AB:1670:DC:C6	11:AB:1671:DT:H72	2.54	0.43
11:AB:1686:DT:C2'	11:AB:1687:DT:H72	2.48	0.43
11:AB:1748:DT:C2'	11:AB:1749:DT:H72	2.48	0.43
11:AB:1786:DC:C6	11:AB:1787:DT:H72	2.54	0.43
11:AB:1799:DC:C6	11:AB:1800:DT:H72	2.54	0.43
11:AB:1867:DC:C6	11:AB:1868:DT:H72	2.54	0.43
11:AB:1929:DG:H1'	11:AB:1930:DT:H5'	2.00	0.43
11:AB:2038:DG:H1'	11:AB:2039:DT:H5'	2.00	0.43
11:AB:2093:DT:C2'	11:AB:2094:DT:H72	2.48	0.43
11:AB:2107:DC:C6	11:AB:2108:DT:H72	2.54	0.43
11:AB:2136:DC:C6	11:AB:2137:DT:H72	2.54	0.43
11:AB:2152:DC:C6	11:AB:2153:DT:H72	2.54	0.43
11:AB:2176:DC:C6	11:AB:2177:DT:H72	2.54	0.43
11:AB:2293:DT:C2'	11:AB:2294:DT:H72	2.48	0.43
11:AB:2332:DC:C6	11:AB:2333:DT:H72	2.54	0.43
11:AB:2398:DC:C6	11:AB:2399:DT:H72	2.54	0.43
11:AB:2452:DG:H1'	11:AB:2453:DT:H5'	2.00	0.43
11:AB:2629:DA:H2'	11:AB:2630:DT:H72	2.00	0.43
11:AB:2841:DA:H2'	11:AB:2842:DT:H72	2.00	0.43
11:AB:3044:DG:H1'	11:AB:3045:DT:H5'	2.00	0.43
11:AB:3235:DG:H1'	11:AB:3236:DT:H5'	2.00	0.43
11:AB:3270:DC:C6	11:AB:3271:DT:H72	2.54	0.43
11:AB:3419:DG:H1'	11:AB:3420:DT:H5'	2.00	0.43
11:AB:3539:DA:H2'	11:AB:3540:DT:H72	2.00	0.43
11:AB:3562:DG:H1'	11:AB:3563:DT:H5'	2.00	0.43
11:AB:3629:DG:H1'	11:AB:3630:DT:H5'	2.00	0.43
11:AB:3854:DC:C6	11:AB:3855:DT:H72	2.54	0.43
11:AB:3914:DG:H1'	11:AB:3915:DT:H5'	2.00	0.43
11:AB:4164:DC:C6	11:AB:4165:DT:H72	2.54	0.43
11:AB:4338:DG:H1'	11:AB:4339:DT:H5'	2.00	0.43
11:AB:4500:DC:C6	11:AB:4501:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4694:DC:C6	11:AB:4695:DT:H72	2.54	0.43
11:AB:4785:DC:C6	11:AB:4786:DT:H72	2.54	0.43
11:AB:4899:DC:C6	11:AB:4900:DT:H72	2.54	0.43
11:AB:5020:DC:C6	11:AB:5021:DT:H72	2.54	0.43
11:AB:5279:DG:H1'	11:AB:5280:DT:H5'	2.00	0.43
11:AB:5327:DA:H2'	11:AB:5328:DT:H72	2.00	0.43
11:AB:5367:DT:C2'	11:AB:5368:DT:H72	2.48	0.43
11:AB:5376:DC:C6	11:AB:5377:DT:H72	2.54	0.43
11:AB:5437:DT:C2'	11:AB:5438:DT:H72	2.48	0.43
11:AB:5442:DA:H2'	11:AB:5443:DT:H72	2.00	0.43
11:AB:5499:DC:C6	11:AB:5500:DT:H72	2.54	0.43
11:AB:5754:DA:H2'	11:AB:5755:DT:H72	2.00	0.43
11:AB:5789:DC:C6	11:AB:5790:DT:H72	2.54	0.43
11:AB:5811:DA:H2'	11:AB:5812:DT:H72	2.00	0.43
11:AB:5893:DG:H1'	11:AB:5894:DT:H5'	2.00	0.43
11:AB:5993:DG:H1'	11:AB:5994:DT:H5'	2.00	0.43
11:AB:6174:DT:C2'	11:AB:6175:DT:H72	2.48	0.43
11:AB:6190:DC:C6	11:AB:6191:DT:H72	2.54	0.43
11:AB:6219:DC:C6	11:AB:6220:DT:H72	2.54	0.43
11:AB:6233:DA:H2'	11:AB:6234:DT:H72	1.99	0.43
11:AB:6236:DA:H2'	11:AB:6237:DT:H72	2.00	0.43
11:AB:6279:DG:H1'	11:AB:6280:DT:H5'	2.00	0.43
11:AB:6357:DG:H1'	11:AB:6358:DT:H5'	2.00	0.43
11:AB:6395:DC:C6	11:AB:6396:DT:H72	2.54	0.43
11:AB:6495:DT:C2'	11:AB:6496:DT:H72	2.48	0.43
11:AB:6547:DC:C6	11:AB:6548:DT:H72	2.54	0.43
11:AB:6721:DC:C6	11:AB:6722:DT:H72	2.54	0.43
11:AB:6789:DG:H1'	11:AB:6790:DT:H5'	2.00	0.43
11:AB:6901:DG:H1'	11:AB:6902:DT:H5'	2.00	0.43
11:AB:7095:DT:C2'	11:AB:7096:DT:H72	2.48	0.43
11:AB:7237:DC:C6	11:AB:7238:DT:H72	2.54	0.43
14:B1:36:DA:H2'	14:B1:37:DT:H72	2.00	0.43
16:B3:7:DA:H2'	16:B3:8:DT:H72	2.00	0.43
27:C2:7:DC:C6	27:C2:8:DT:H72	2.54	0.43
29:C5:40:DG:H1'	29:C5:41:DT:H5'	2.00	0.43
35:CC:12:DC:C6	35:CC:13:DT:H72	2.54	0.43
37:D1:26:DC:C6	37:D1:27:DT:H72	2.54	0.43
41:D6:36:DC:C6	41:D6:37:DT:H72	2.54	0.43
42:D7:1:DT:H72	53:E7:15:DT:C2'	2.48	0.43
46:DC:9:DC:C6	46:DC:10:DT:H72	2.54	0.43
47:DD:35:DA:H2'	47:DD:36:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:E1:32:DC:C6	48:E1:33:DT:H72	2.54	0.43
52:E6:24:DC:C6	52:E6:25:DT:H72	2.54	0.43
53:E7:20:DG:H1'	53:E7:21:DT:H5'	2.00	0.43
56:EA:5:DG:H1'	56:EA:6:DT:H5'	2.00	0.43
58:ED:9:DG:H1'	58:ED:10:DT:H5'	2.00	0.43
58:ED:17:DC:C6	58:ED:18:DT:H72	2.54	0.43
62:F5:29:DT:C2'	62:F5:30:DT:H72	2.48	0.43
64:F7:7:DC:C6	64:F7:8:DT:H72	2.54	0.43
65:F8:4:DC:C6	65:F8:5:DT:H72	2.54	0.43
81:H1:7:DA:H2'	81:H1:8:DT:H72	2.00	0.43
86:H7:16:DT:C2'	86:H7:17:DT:H72	2.48	0.43
88:H9:12:DC:C6	88:H9:13:DT:H72	2.54	0.43
93:I2:36:DG:H1'	93:I2:37:DT:H5'	2.00	0.43
95:I5:39:DA:H2'	95:I5:40:DT:H72	2.00	0.43
97:I7:14:DG:H1'	97:I7:15:DT:H5'	2.00	0.43
100:IA:13:DA:H2'	100:IA:14:DT:H72	2.00	0.43
117:K5:29:DC:C6	117:K5:30:DT:H72	2.54	0.43
122:KA:46:DC:C6	122:KA:47:DT:H72	2.54	0.43
130:L7:10:DG:H1'	130:L7:11:DT:H5'	2.00	0.43
136:M2:1:DC:C6	136:M2:2:DT:H72	2.54	0.43
141:M8:27:DC:C6	141:M8:28:DT:H72	2.54	0.43
144:MC:17:DT:C2'	144:MC:18:DT:H72	2.48	0.43
149:N6:24:DG:H1'	149:N6:25:DT:H5'	2.00	0.43
152:N9:27:DC:C6	152:N9:28:DT:H72	2.54	0.43
166:P2:33:DC:C6	166:P2:34:DT:H72	2.54	0.43
167:P3:12:DT:C2'	167:P3:13:DT:H72	2.48	0.43
170:P7:14:DA:H2'	170:P7:15:DT:H72	2.00	0.43
176:Q2:11:DC:C6	176:Q2:12:DT:H72	2.54	0.43
178:Q5:19:DT:C2'	178:Q5:20:DT:H72	2.48	0.43
180:Q8:17:DA:H2'	180:Q8:18:DT:H72	2.00	0.43
183:QC:14:DA:H2'	183:QC:15:DT:H72	2.00	0.43
187:R5:39:DC:C6	187:R5:40:DT:H72	2.54	0.43
191:RA:23:DA:H2'	191:RA:24:DT:H72	2.00	0.43
192:RC:30:DT:C2'	192:RC:31:DT:H72	2.48	0.43
197:S7:8:DC:C6	197:S7:9:DT:H72	2.54	0.43
197:S7:21:DC:C6	197:S7:22:DT:H72	2.54	0.43
204:T3:31:DG:H1'	204:T3:32:DT:H5'	2.00	0.43
206:T7:25:DA:H2'	206:T7:26:DT:H72	2.00	0.43
210:TC:12:DC:C6	210:TC:13:DT:H72	2.54	0.43
210:TC:14:DA:H2'	210:TC:15:DT:H72	2.00	0.43
211:TD:15:DA:H2'	211:TD:16:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
211:TD:33:DT:C2'	211:TD:34:DT:H72	2.48	0.43
214:U5:24:DT:C2'	214:U5:25:DT:H72	2.48	0.43
215:U7:8:DA:H2'	215:U7:9:DT:H72	2.00	0.43
215:U7:12:DC:C6	215:U7:13:DT:H72	2.54	0.43
219:UC:14:DA:H2'	219:UC:15:DT:H72	2.00	0.43
219:UC:35:DA:H2'	219:UC:36:DT:H72	2.00	0.43
234:W9:10:DC:C6	234:W9:11:DT:H72	2.54	0.43
1:A1:50:DC:C6	1:A1:51:DT:H72	2.54	0.43
3:A3:3:DA:H2'	3:A3:4:DT:H72	2.00	0.43
5:A5:41:DG:H1'	5:A5:42:DT:H5'	2.00	0.43
11:AB:3:DA:H2'	11:AB:4:DT:H72	2.00	0.43
11:AB:48:DC:C6	11:AB:49:DT:H72	2.54	0.43
11:AB:91:DC:C6	11:AB:92:DT:H72	2.54	0.43
11:AB:220:DG:H1'	11:AB:221:DT:H5'	2.00	0.43
11:AB:295:DC:C6	11:AB:296:DT:H72	2.54	0.43
11:AB:299:DC:C6	11:AB:300:DT:H72	2.54	0.43
11:AB:424:DG:H1'	11:AB:425:DT:H5'	2.00	0.43
11:AB:529:DC:C6	11:AB:530:DT:H72	2.54	0.43
11:AB:775:DA:H2'	11:AB:776:DT:H72	2.00	0.43
11:AB:782:DC:C6	11:AB:783:DT:H72	2.54	0.43
11:AB:805:DG:H1'	11:AB:806:DT:H5'	2.00	0.43
11:AB:821:DA:H2'	11:AB:822:DT:H72	2.00	0.43
11:AB:865:DC:C6	11:AB:866:DT:H72	2.54	0.43
11:AB:919:DC:C6	11:AB:920:DT:H72	2.54	0.43
11:AB:946:DG:H1'	11:AB:947:DT:H5'	2.00	0.43
11:AB:1041:DC:C6	11:AB:1042:DT:H72	2.54	0.43
11:AB:1262:DA:H2'	11:AB:1263:DT:H72	2.00	0.43
11:AB:1328:DC:C6	11:AB:1329:DT:H72	2.54	0.43
11:AB:1344:DT:C2'	11:AB:1345:DT:H72	2.48	0.43
11:AB:1349:DG:H1'	11:AB:1350:DT:H5'	2.00	0.43
11:AB:1353:DC:C6	11:AB:1354:DT:H72	2.54	0.43
11:AB:1457:DT:C2'	11:AB:1458:DT:H72	2.48	0.43
11:AB:1466:DC:C6	11:AB:1467:DT:H72	2.54	0.43
11:AB:1624:DC:C6	11:AB:1625:DT:H72	2.54	0.43
11:AB:1767:DA:H2'	11:AB:1768:DT:H72	2.00	0.43
11:AB:1780:DT:C2'	11:AB:1781:DT:H72	2.48	0.43
11:AB:1924:DC:C6	11:AB:1925:DT:H72	2.54	0.43
11:AB:1945:DA:H2'	11:AB:1946:DT:H72	2.00	0.43
11:AB:1987:DA:H2'	11:AB:1988:DT:H72	2.00	0.43
11:AB:2015:DC:C6	11:AB:2016:DT:H72	2.54	0.43
11:AB:2251:DC:C6	11:AB:2252:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2275:DC:C6	11:AB:2276:DT:H72	2.54	0.43
11:AB:2287:DT:H5'	11:AB:5506:DG:H1'	2.00	0.43
11:AB:2317:DC:C6	11:AB:2318:DT:H72	2.54	0.43
11:AB:2392:DC:C6	11:AB:2393:DT:H72	2.54	0.43
11:AB:2460:DT:C2'	11:AB:2461:DT:H72	2.48	0.43
11:AB:2558:DA:H2'	11:AB:2559:DT:H72	2.00	0.43
11:AB:2645:DC:C6	11:AB:2646:DT:H72	2.54	0.43
11:AB:2650:DC:C6	11:AB:2651:DT:H72	2.54	0.43
11:AB:2689:DA:H2'	11:AB:2690:DT:H72	2.00	0.43
11:AB:2710:DA:H2'	11:AB:2711:DT:H72	2.00	0.43
11:AB:2742:DC:C6	11:AB:2743:DT:H72	2.54	0.43
11:AB:2757:DT:C2'	11:AB:2758:DT:H72	2.48	0.43
11:AB:2809:DA:H2'	11:AB:2810:DT:H72	2.00	0.43
11:AB:2932:DG:H1'	11:AB:2933:DT:H5'	2.00	0.43
11:AB:3007:DA:H2'	11:AB:3008:DT:H72	1.99	0.43
11:AB:3040:DG:H1'	11:AB:3041:DT:H5'	2.00	0.43
11:AB:3222:DT:C2'	11:AB:3223:DT:H72	2.48	0.43
11:AB:3397:DT:C2'	11:AB:3398:DT:H72	2.48	0.43
11:AB:3500:DC:C6	11:AB:3501:DT:H72	2.54	0.43
11:AB:3587:DA:H2'	11:AB:3588:DT:H72	2.00	0.43
11:AB:3674:DC:C6	11:AB:3675:DT:H72	2.54	0.43
11:AB:3739:DG:H1'	11:AB:3740:DT:H5'	2.00	0.43
11:AB:3743:DG:H1'	11:AB:3744:DT:H5'	2.00	0.43
11:AB:3793:DC:C6	11:AB:3794:DT:H72	2.54	0.43
11:AB:3845:DA:H2'	11:AB:3846:DT:H72	2.00	0.43
11:AB:3866:DG:H1'	11:AB:3867:DT:H5'	2.00	0.43
11:AB:3919:DC:C6	11:AB:3920:DT:H72	2.54	0.43
11:AB:4066:DC:C6	11:AB:4067:DT:H72	2.54	0.43
11:AB:4155:DC:C6	11:AB:4156:DT:H72	2.54	0.43
11:AB:4172:DC:C6	11:AB:4173:DT:H72	2.54	0.43
11:AB:4180:DG:H1'	11:AB:4181:DT:H5'	2.00	0.43
11:AB:4189:DC:C6	11:AB:4190:DT:H72	2.54	0.43
11:AB:4209:DA:H2'	11:AB:4210:DT:H72	2.00	0.43
11:AB:4332:DG:H1'	11:AB:4333:DT:H5'	2.00	0.43
11:AB:4395:DC:C6	11:AB:4396:DT:H72	2.54	0.43
11:AB:4983:DC:C6	11:AB:4984:DT:H72	2.54	0.43
11:AB:5168:DG:H1'	11:AB:5169:DT:H5'	2.00	0.43
11:AB:5363:DT:C2'	11:AB:5364:DT:H72	2.48	0.43
11:AB:5434:DG:H1'	11:AB:5435:DT:H5'	2.00	0.43
11:AB:5491:DC:C6	11:AB:5492:DT:H72	2.54	0.43
11:AB:5549:DC:C6	11:AB:5550:DT:H72	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5773:DC:C6	11:AB:5774:DT:H72	2.54	0.43
11:AB:5828:DC:C6	11:AB:5829:DT:H72	2.54	0.43
11:AB:5837:DG:H1'	11:AB:5838:DT:H5'	2.00	0.43
11:AB:5842:DA:H2'	11:AB:5843:DT:H72	2.00	0.43
11:AB:5846:DA:H2'	11:AB:5847:DT:H72	2.00	0.43
11:AB:5881:DA:H2'	11:AB:5882:DT:H72	2.00	0.43
11:AB:5975:DA:H2'	11:AB:5976:DT:H72	2.00	0.43
11:AB:5996:DC:C6	11:AB:5997:DT:H72	2.54	0.43
11:AB:6051:DC:C6	11:AB:6052:DT:H72	2.54	0.43
11:AB:6139:DC:C6	11:AB:6140:DT:H72	2.54	0.43
11:AB:6155:DC:C6	11:AB:6156:DT:H72	2.54	0.43
11:AB:6180:DG:H1'	11:AB:6181:DT:H5'	2.00	0.43
11:AB:6289:DC:C6	11:AB:6290:DT:H72	2.54	0.43
11:AB:6383:DC:C6	11:AB:6384:DT:H72	2.54	0.43
11:AB:6455:DA:H2'	11:AB:6456:DT:H72	2.00	0.43
11:AB:6531:DA:H2'	11:AB:6532:DT:H72	2.00	0.43
11:AB:6555:DC:C6	11:AB:6556:DT:H72	2.54	0.43
11:AB:6592:DG:H1'	11:AB:6593:DT:H5'	2.00	0.43
11:AB:6611:DG:H1'	11:AB:6612:DT:H5'	2.00	0.43
11:AB:6623:DA:H2'	11:AB:6624:DT:H72	2.00	0.43
11:AB:6706:DC:C6	11:AB:6707:DT:H72	2.54	0.43
11:AB:6711:DT:H1'	11:AB:6712:DC:H5'	2.01	0.43
11:AB:6756:DC:C6	11:AB:6757:DT:H72	2.54	0.43
11:AB:6829:DA:H2'	11:AB:6830:DT:H72	2.00	0.43
11:AB:6909:DC:C6	11:AB:6910:DT:H72	2.54	0.43
11:AB:6982:DG:H1'	11:AB:6983:DT:H5'	2.00	0.43
11:AB:7013:DC:C6	11:AB:7014:DT:H72	2.54	0.43
11:AB:7114:DC:C6	11:AB:7115:DT:H72	2.54	0.43
11:AB:7118:DC:C6	11:AB:7119:DT:H72	2.54	0.43
11:AB:7139:DC:C6	11:AB:7140:DT:H72	2.54	0.43
14:B1:3:DG:H1'	14:B1:4:DT:H5'	2.00	0.43
16:B3:18:DG:H1'	16:B3:19:DT:H5'	2.00	0.43
19:B6:22:DC:C6	19:B6:23:DT:H72	2.54	0.43
21:B8:9:DA:H2'	21:B8:10:DT:H72	2.00	0.43
22:B9:43:DC:C6	22:B9:44:DT:H72	2.54	0.43
31:C7:13:DG:H1'	31:C7:14:DT:H5'	2.00	0.43
31:C7:15:DG:H1'	31:C7:16:DT:H5'	2.00	0.43
34:CA:15:DC:C6	34:CA:16:DT:H72	2.54	0.43
35:CC:28:DG:H1'	35:CC:29:DT:H5'	2.00	0.43
43:D8:27:DC:C6	43:D8:28:DT:H72	2.54	0.43
43:D8:43:DA:H2'	43:D8:44:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:D9:19:DC:C6	44:D9:20:DT:H72	2.54	0.43
49:E2:34:DG:H1'	49:E2:35:DT:H5'	2.00	0.43
59:F1:19:DA:H2'	59:F1:20:DT:H72	2.00	0.43
62:F5:39:DA:H2'	62:F5:40:DT:H72	2.00	0.43
62:F5:41:DA:H2'	62:F5:42:DT:H72	2.00	0.43
62:F5:43:DC:C6	62:F5:44:DT:H72	2.54	0.43
64:F7:26:DA:H2'	64:F7:27:DT:H72	2.00	0.43
73:G5:3:DC:C6	73:G5:4:DT:H72	2.54	0.43
74:G6:31:DA:H2'	74:G6:32:DT:H72	2.00	0.43
80:GD:16:DG:H1'	80:GD:17:DT:H5'	2.00	0.43
82:H2:9:DA:H2'	82:H2:10:DT:H72	2.00	0.43
84:H5:3:DG:H1'	84:H5:4:DT:H5'	2.00	0.43
84:H5:36:DC:C6	84:H5:37:DT:H72	2.54	0.43
97:I7:28:DC:C6	97:I7:29:DT:H72	2.54	0.43
102:ID:13:DC:C6	102:ID:14:DT:H72	2.54	0.43
104:J2:40:DA:H2'	104:J2:41:DT:H72	2.00	0.43
107:J6:23:DC:C6	107:J6:24:DT:H72	2.54	0.43
107:J6:27:DC:C6	107:J6:28:DT:H72	2.54	0.43
112:JC:13:DC:C6	112:JC:14:DT:H72	2.54	0.43
116:K3:10:DG:H1'	116:K3:11:DT:H5'	2.00	0.43
117:K5:10:DC:C6	117:K5:11:DT:H72	2.54	0.43
121:K9:21:DC:C6	121:K9:22:DT:H72	2.54	0.43
121:K9:25:DG:H1'	121:K9:26:DT:H5'	2.00	0.43
122:KA:8:DC:C6	122:KA:9:DT:H72	2.54	0.43
141:M8:24:DA:H2'	141:M8:25:DT:H72	2.00	0.43
156:O2:12:DC:C6	156:O2:13:DT:H72	2.54	0.43
164:OC:17:DC:C6	164:OC:18:DT:H72	2.54	0.43
177:Q3:9:DC:C6	177:Q3:10:DT:H72	2.54	0.43
178:Q5:22:DC:C6	178:Q5:23:DT:H72	2.54	0.43
179:Q7:9:DA:H2'	179:Q7:10:DT:H72	2.00	0.43
181:Q9:22:DC:C6	181:Q9:23:DT:H72	2.54	0.43
182:QA:24:DG:H1'	182:QA:25:DT:H5'	2.00	0.43
187:R5:29:DA:H2'	187:R5:30:DT:H72	2.00	0.43
189:R8:32:DA:H2'	189:R8:33:DT:H72	2.00	0.43
192:RC:16:DA:H2'	192:RC:17:DT:H72	2.00	0.43
203:T2:17:DA:H2'	203:T2:18:DT:H72	2.00	0.43
210:TC:17:DA:H2'	210:TC:18:DT:H72	2.00	0.43
218:UA:2:DT:C2'	218:UA:3:DT:H72	2.48	0.43
222:V3:6:DT:C2'	222:V3:7:DT:H72	2.48	0.43
228:VC:20:DC:C6	228:VC:21:DT:H72	2.54	0.43
232:W7:9:DA:H2'	232:W7:10:DT:H72	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
234:W9:1:DG:H1'	234:W9:2:DT:H5'	2.00	0.43
236:X5:10:DA:H2'	236:X5:11:DT:H72	2.00	0.43
8:A8:16:DG:H1'	126:L2:21:DT:H5'	2.00	0.42
11:AB:115:DC:C6	11:AB:116:DT:H72	2.54	0.42
11:AB:308:DC:C6	11:AB:309:DT:H72	2.54	0.42
11:AB:336:DG:H1'	11:AB:337:DT:H5'	2.00	0.42
11:AB:361:DG:H1'	11:AB:362:DT:H5'	2.00	0.42
11:AB:541:DG:H1'	11:AB:542:DT:H5'	2.00	0.42
11:AB:846:DG:H1'	11:AB:847:DT:H5'	2.00	0.42
11:AB:877:DC:C6	11:AB:878:DT:H72	2.54	0.42
11:AB:990:DA:H2'	11:AB:991:DT:H72	2.00	0.42
11:AB:1188:DG:H1'	11:AB:1189:DT:H5'	2.00	0.42
11:AB:1586:DC:C6	11:AB:1587:DT:H72	2.54	0.42
11:AB:1739:DG:H1'	11:AB:1740:DT:H5'	2.00	0.42
11:AB:1746:DA:H2'	11:AB:1747:DT:H72	2.00	0.42
11:AB:1902:DG:H1'	11:AB:1903:DT:H5'	2.00	0.42
11:AB:1910:DG:H1'	11:AB:1911:DT:H5'	2.00	0.42
11:AB:2058:DT:H72	11:AB:5777:DA:H2'	2.00	0.42
11:AB:2092:DA:H2'	11:AB:2093:DT:H72	1.99	0.42
11:AB:2161:DA:H2'	11:AB:2162:DT:H72	2.00	0.42
11:AB:2193:DG:H1'	11:AB:2194:DT:H5'	2.00	0.42
11:AB:2230:DC:C6	11:AB:2231:DT:H72	2.54	0.42
11:AB:2292:DG:H1'	11:AB:2293:DT:H5'	2.00	0.42
11:AB:2314:DA:H2'	11:AB:2315:DT:H72	2.00	0.42
11:AB:2353:DC:C6	11:AB:2354:DT:H72	2.54	0.42
11:AB:2468:DA:H2'	11:AB:2469:DT:H72	2.00	0.42
11:AB:2541:DA:H2'	11:AB:2542:DT:H72	2.00	0.42
11:AB:2569:DG:H1'	11:AB:2570:DT:H5'	2.00	0.42
11:AB:2638:DC:C6	11:AB:2639:DT:H72	2.54	0.42
11:AB:2831:DT:H2'	11:AB:2832:DT:H72	2.02	0.42
11:AB:2874:DT:H5'	11:AB:5061:DG:H1'	2.00	0.42
11:AB:3069:DG:H1'	11:AB:3070:DT:H5'	2.00	0.42
11:AB:3252:DG:H1'	11:AB:3253:DT:H5'	2.00	0.42
11:AB:3382:DA:H2'	11:AB:3383:DT:H72	2.00	0.42
11:AB:3384:DA:H2'	11:AB:3385:DT:H72	2.00	0.42
11:AB:3547:DG:H1'	11:AB:3548:DT:H5'	2.00	0.42
11:AB:3600:DG:H1'	11:AB:3601:DT:H5'	2.00	0.42
11:AB:3682:DG:H1'	11:AB:3683:DT:H5'	2.00	0.42
11:AB:3884:DA:H2'	11:AB:3885:DT:H72	2.00	0.42
11:AB:3968:DC:C6	11:AB:3969:DT:H72	2.54	0.42
11:AB:4038:DG:H2''	11:AB:4039:DC:OP2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4502:DC:C6	11:AB:4503:DT:H72	2.54	0.42
11:AB:4505:DT:H1'	11:AB:4506:DC:H5'	2.01	0.42
11:AB:4814:DG:H1'	11:AB:4815:DT:H5'	2.00	0.42
11:AB:4913:DC:C6	11:AB:4914:DT:H72	2.54	0.42
11:AB:5150:DG:H1'	11:AB:5151:DT:H5'	2.00	0.42
11:AB:5221:DA:H2'	11:AB:5222:DT:H72	1.99	0.42
11:AB:5274:DA:H2'	11:AB:5275:DT:H72	2.00	0.42
11:AB:5394:DT:H2'	11:AB:5395:DT:H72	2.02	0.42
11:AB:5413:DG:H1'	11:AB:5414:DT:H5'	2.00	0.42
11:AB:5443:DT:H2'	11:AB:5444:DT:H72	2.01	0.42
11:AB:5631:DC:C6	11:AB:5632:DT:H72	2.54	0.42
11:AB:5643:DA:H2'	11:AB:5644:DT:H72	2.00	0.42
11:AB:5652:DA:H2'	11:AB:5653:DT:H72	2.00	0.42
11:AB:5663:DC:C6	11:AB:5664:DT:H72	2.54	0.42
11:AB:5720:DG:H1'	11:AB:5721:DT:H5'	2.00	0.42
11:AB:5759:DC:C6	11:AB:5760:DT:H72	2.54	0.42
11:AB:5812:DT:H2'	11:AB:5813:DT:H72	2.01	0.42
11:AB:5825:DC:C6	11:AB:5826:DT:H72	2.54	0.42
11:AB:5958:DA:H2'	11:AB:5959:DT:H72	2.00	0.42
11:AB:6291:DG:H1'	11:AB:6292:DT:H5'	2.00	0.42
11:AB:6332:DA:H2'	11:AB:6333:DT:H72	2.00	0.42
11:AB:6538:DC:C6	11:AB:6539:DT:H72	2.54	0.42
11:AB:6565:DG:H1'	11:AB:6566:DT:H5'	2.00	0.42
11:AB:6703:DC:C6	11:AB:6704:DT:H72	2.54	0.42
11:AB:6718:DT:H2'	11:AB:6719:DT:H72	2.02	0.42
11:AB:6842:DG:H1'	11:AB:6843:DT:H5'	2.00	0.42
11:AB:6978:DC:C6	11:AB:6979:DT:H72	2.54	0.42
11:AB:7169:DG:H1'	11:AB:7170:DT:H5'	2.00	0.42
13:AD:39:DT:H2'	13:AD:40:DT:H72	2.01	0.42
14:B1:39:DG:H1'	14:B1:40:DT:H5'	2.00	0.42
21:B8:1:DT:H72	224:V7:22:DA:H2'	2.00	0.42
23:BA:34:DG:H1'	23:BA:35:DT:H5'	2.00	0.42
30:C6:3:DG:H1'	30:C6:4:DT:H5'	2.00	0.42
30:C6:9:DA:H2'	30:C6:10:DT:H72	1.99	0.42
31:C7:23:DG:H1'	31:C7:24:DT:H5'	2.00	0.42
32:C8:1:DA:H2'	32:C8:2:DT:H72	2.00	0.42
33:C9:7:DA:H2'	33:C9:8:DT:H72	2.00	0.42
34:CA:17:DG:H1'	34:CA:18:DT:H5'	2.00	0.42
48:E1:21:DG:H1'	48:E1:22:DT:H5'	2.00	0.42
57:EC:5:DA:H2'	57:EC:6:DT:H72	2.00	0.42
58:ED:14:DA:H2'	58:ED:15:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:F5:27:DA:H2'	62:F5:28:DT:H72	2.00	0.42
63:F6:17:DG:H1'	63:F6:18:DT:H5'	2.00	0.42
64:F7:15:DG:H1'	64:F7:16:DT:H5'	2.00	0.42
67:FA:19:DC:C6	67:FA:20:DT:H72	2.54	0.42
72:G3:20:DG:H1'	72:G3:21:DT:H5'	2.00	0.42
79:GC:18:DG:H1'	79:GC:19:DT:H5'	2.00	0.42
82:H2:25:DC:C6	82:H2:26:DT:H72	2.54	0.42
82:H2:44:DC:C6	82:H2:45:DT:H72	2.54	0.42
84:H5:20:DG:H2''	84:H5:21:DC:OP2	2.19	0.42
86:H7:15:DA:H2'	86:H7:16:DT:H72	1.99	0.42
91:HD:12:DA:H2'	91:HD:13:DT:H72	2.00	0.42
95:I5:3:DC:C6	95:I5:4:DT:H72	2.54	0.42
95:I5:22:DG:H1'	95:I5:23:DT:H5'	2.00	0.42
96:I6:5:DG:H1'	96:I6:6:DT:H5'	2.00	0.42
97:I7:26:DG:H1'	97:I7:27:DT:H5'	2.00	0.42
108:J7:36:DG:H1'	108:J7:37:DT:H5'	2.00	0.42
108:J7:43:DT:H5'	157:O3:10:DG:H1'	2.00	0.42
111:JA:1:DT:H5'	209:TA:25:DG:H1'	2.00	0.42
130:L7:19:DA:H2'	130:L7:20:DT:H72	2.00	0.42
140:M7:20:DA:H2'	140:M7:21:DT:H72	2.00	0.42
142:M9:21:DG:H1'	142:M9:22:DT:H5'	2.00	0.42
143:MA:7:DA:H2'	143:MA:8:DT:H72	2.00	0.42
148:N5:7:DG:H1'	148:N5:8:DT:H5'	2.00	0.42
148:N5:24:DC:C6	148:N5:25:DT:H72	2.54	0.42
158:O5:29:DA:H2'	158:O5:30:DT:H72	1.99	0.42
158:O5:46:DA:H2'	158:O5:47:DT:H72	2.00	0.42
158:O5:51:DC:C6	158:O5:52:DT:H72	2.54	0.42
161:O8:23:DG:H1'	161:O8:24:DT:H5'	2.00	0.42
165:OD:3:DA:H2'	165:OD:4:DT:H72	2.00	0.42
165:OD:17:DA:H2'	165:OD:18:DT:H72	2.00	0.42
178:Q5:17:DA:H2'	178:Q5:18:DT:H72	2.00	0.42
188:R7:3:DG:H1'	188:R7:4:DT:H5'	2.00	0.42
207:T8:5:DA:H2'	207:T8:6:DT:H72	2.00	0.42
209:TA:34:DC:C6	209:TA:35:DT:H72	2.54	0.42
217:U9:25:DA:H2'	217:U9:26:DT:H72	1.99	0.42
223:V5:11:DC:C6	223:V5:12:DT:H72	2.54	0.42
233:W8:5:DA:H2'	233:W8:6:DT:H72	2.00	0.42
234:W9:8:DG:H1'	234:W9:9:DT:H5'	2.00	0.42
3:A3:1:DT:H72	50:E3:19:DA:H2'	1.99	0.42
7:A7:18:DA:H2'	7:A7:19:DT:H72	2.00	0.42
8:A8:7:DG:H1'	8:A8:8:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A8:25:DT:H2'	8:A8:26:DT:H72	2.02	0.42
11:AB:57:DT:H1'	11:AB:58:DC:H5'	2.02	0.42
11:AB:187:DC:C6	11:AB:188:DT:H72	2.54	0.42
11:AB:263:DC:C6	11:AB:264:DT:H72	2.54	0.42
11:AB:371:DA:H2'	11:AB:372:DT:H72	2.00	0.42
11:AB:439:DG:H1'	11:AB:440:DT:H5'	2.00	0.42
11:AB:470:DT:H1'	11:AB:471:DC:H5'	2.02	0.42
11:AB:533:DT:H1'	11:AB:534:DC:H5'	2.02	0.42
11:AB:594:DC:C6	11:AB:595:DT:H72	2.54	0.42
11:AB:603:DT:H2'	11:AB:604:DT:H72	2.02	0.42
11:AB:624:DT:H2'	11:AB:625:DT:H72	2.02	0.42
11:AB:645:DT:H2'	11:AB:646:DT:H72	2.02	0.42
11:AB:768:DG:H2''	11:AB:769:DC:OP2	2.19	0.42
11:AB:932:DC:C6	11:AB:933:DT:H72	2.54	0.42
11:AB:970:DG:H1'	11:AB:971:DT:H5'	2.00	0.42
11:AB:1078:DC:C6	11:AB:1079:DT:H72	2.54	0.42
11:AB:1192:DG:H1'	11:AB:1193:DT:H5'	2.00	0.42
11:AB:1204:DA:H2'	11:AB:1205:DT:H72	2.00	0.42
11:AB:1315:DG:H1'	11:AB:1316:DT:H5'	2.00	0.42
11:AB:1412:DT:H72	11:AB:6159:DA:H2'	2.00	0.42
11:AB:1453:DA:H2'	11:AB:1454:DT:H72	2.00	0.42
11:AB:1522:DC:C6	11:AB:1523:DT:H72	2.54	0.42
11:AB:1542:DC:C6	11:AB:1543:DT:H72	2.54	0.42
11:AB:1601:DT:H1'	11:AB:1602:DC:H5'	2.02	0.42
11:AB:1605:DA:H2'	11:AB:1606:DT:H72	2.00	0.42
11:AB:1615:DT:H1'	11:AB:1616:DC:H5'	2.02	0.42
11:AB:1648:DG:H1'	11:AB:1649:DT:H5'	2.00	0.42
11:AB:1704:DC:C6	11:AB:1705:DT:H72	2.54	0.42
11:AB:1963:DA:H2'	11:AB:1964:DT:H72	1.99	0.42
11:AB:2006:DT:H72	11:AB:5913:DT:C2'	2.48	0.42
11:AB:2034:DT:H72	11:AB:5857:DT:C2'	2.48	0.42
11:AB:2139:DG:H1'	11:AB:2140:DT:H5'	2.00	0.42
11:AB:2298:DG:H1'	11:AB:2299:DT:H5'	2.00	0.42
11:AB:2321:DA:H2'	11:AB:2322:DT:H72	2.00	0.42
11:AB:2456:DG:H1'	11:AB:2457:DT:H5'	2.00	0.42
11:AB:2497:DC:C6	11:AB:2498:DT:H72	2.54	0.42
11:AB:2609:DC:C6	11:AB:2610:DT:H72	2.54	0.42
11:AB:2633:DA:H2'	11:AB:2634:DT:H72	2.00	0.42
11:AB:2764:DC:C6	11:AB:2765:DT:H72	2.54	0.42
11:AB:2766:DG:H1'	11:AB:2767:DT:H5'	2.00	0.42
11:AB:2819:DT:H2'	11:AB:2820:DT:H72	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2843:DC:C6	11:AB:2844:DT:H72	2.54	0.42
11:AB:2898:DT:C2'	11:AB:2899:DT:H72	2.48	0.42
11:AB:2918:DG:H2''	11:AB:2919:DC:OP2	2.19	0.42
11:AB:2929:DA:H2'	11:AB:2930:DT:H72	2.00	0.42
11:AB:3014:DT:H2'	11:AB:3015:DT:H72	2.02	0.42
11:AB:3062:DT:C2'	11:AB:3063:DT:H72	2.48	0.42
11:AB:3425:DC:C6	11:AB:3426:DT:H72	2.54	0.42
11:AB:3466:DG:H1'	11:AB:3467:DT:H5'	2.00	0.42
11:AB:3478:DG:H1'	11:AB:3479:DT:H5'	2.00	0.42
11:AB:3579:DT:H72	11:AB:4754:DT:C2'	2.48	0.42
11:AB:3604:DG:H1'	11:AB:3605:DT:H5'	2.00	0.42
11:AB:3641:DC:C6	11:AB:3642:DT:H72	2.54	0.42
11:AB:3661:DG:H1'	11:AB:3662:DT:H5'	2.00	0.42
11:AB:3689:DG:H1'	11:AB:3690:DT:H5'	2.00	0.42
11:AB:3772:DA:H2'	11:AB:3773:DT:H72	1.99	0.42
11:AB:3872:DC:C6	11:AB:3873:DT:H72	2.54	0.42
11:AB:3909:DA:H2'	11:AB:4414:DT:H72	2.00	0.42
11:AB:3977:DC:C6	11:AB:3978:DT:H72	2.54	0.42
11:AB:4092:DG:H1'	11:AB:4093:DT:H5'	2.00	0.42
11:AB:4168:DC:C6	11:AB:4169:DT:H72	2.54	0.42
11:AB:4218:DT:H1'	11:AB:4219:DC:H5'	2.02	0.42
11:AB:4459:DT:C2'	11:AB:4460:DT:H72	2.48	0.42
11:AB:4472:DG:H2''	11:AB:4473:DC:OP2	2.19	0.42
11:AB:4616:DA:H2'	11:AB:4617:DT:H72	2.00	0.42
11:AB:4712:DC:C6	11:AB:4713:DT:H72	2.54	0.42
11:AB:4753:DG:H1'	11:AB:4754:DT:H5'	2.00	0.42
11:AB:4846:DG:H2''	11:AB:4847:DC:OP2	2.19	0.42
11:AB:4862:DC:C6	11:AB:4863:DT:H72	2.54	0.42
11:AB:4978:DT:H1'	11:AB:4979:DC:H5'	2.01	0.42
11:AB:5059:DC:C6	11:AB:5060:DT:H72	2.54	0.42
11:AB:5068:DG:H1'	11:AB:5069:DT:H5'	2.00	0.42
11:AB:5158:DT:H1'	11:AB:5159:DC:H5'	2.02	0.42
11:AB:5205:DG:H1'	11:AB:5206:DT:H5'	2.00	0.42
11:AB:5359:DA:H2'	11:AB:5360:DT:H72	2.00	0.42
11:AB:5476:DC:C6	11:AB:5477:DT:H72	2.54	0.42
11:AB:5746:DT:C2'	11:AB:5747:DT:H72	2.48	0.42
11:AB:5767:DT:C2'	11:AB:5768:DT:H72	2.48	0.42
11:AB:5791:DT:H2'	11:AB:5792:DT:H72	2.02	0.42
11:AB:5963:DC:C6	11:AB:5964:DT:H72	2.54	0.42
11:AB:5965:DG:H1'	11:AB:5966:DT:H5'	2.00	0.42
11:AB:6110:DA:H2'	11:AB:6111:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6111:DT:H1'	11:AB:6112:DC:H5'	2.02	0.42
11:AB:6258:DT:H2'	11:AB:6259:DT:H72	2.02	0.42
11:AB:6270:DG:H1'	11:AB:6271:DT:H5'	2.00	0.42
11:AB:6521:DG:H1'	11:AB:6522:DT:H5'	2.00	0.42
11:AB:6563:DA:H2'	11:AB:6564:DT:H72	2.00	0.42
11:AB:6612:DT:H1'	11:AB:6613:DC:H5'	2.02	0.42
11:AB:6771:DT:C2'	11:AB:6772:DT:H72	2.48	0.42
11:AB:6835:DC:C6	11:AB:6836:DT:H72	2.54	0.42
11:AB:6914:DT:H1'	11:AB:6915:DC:H5'	2.02	0.42
14:B1:34:DC:C6	14:B1:35:DT:H72	2.54	0.42
16:B3:8:DT:H2'	16:B3:9:DT:H72	2.02	0.42
19:B6:17:DG:H1'	19:B6:18:DT:H5'	2.00	0.42
21:B8:12:DG:H1'	21:B8:13:DT:H5'	2.00	0.42
30:C6:45:DG:H1'	117:K5:1:DT:H5'	2.01	0.42
32:C8:12:DT:H2'	32:C8:13:DT:H72	2.02	0.42
32:C8:48:DC:C6	32:C8:49:DT:H72	2.54	0.42
43:D8:10:DC:C6	43:D8:11:DT:H72	2.54	0.42
47:DD:6:DG:H1'	47:DD:7:DT:H5'	2.00	0.42
54:E8:11:DT:C2'	54:E8:12:DT:H72	2.48	0.42
73:G5:22:DG:H1'	73:G5:23:DT:H5'	2.00	0.42
74:G6:30:DC:C6	213:U3:15:DT:H72	2.54	0.42
80:GD:21:DG:H2''	80:GD:22:DC:OP2	2.19	0.42
86:H7:21:DG:H2''	86:H7:22:DC:OP2	2.19	0.42
88:H9:1:DA:H2'	88:H9:2:DT:H72	2.00	0.42
93:I2:38:DG:H1'	93:I2:39:DT:H5'	2.00	0.42
95:I5:6:DT:H1'	95:I5:7:DC:H5'	2.02	0.42
95:I5:25:DT:C2'	95:I5:26:DT:H72	2.48	0.42
96:I6:10:DG:H1'	96:I6:11:DT:H5'	2.00	0.42
101:IC:8:DT:C2'	101:IC:9:DT:H72	2.48	0.42
102:ID:12:DC:C6	175:PD:14:DT:H72	2.54	0.42
106:J5:9:DT:H2'	106:J5:10:DT:H72	2.02	0.42
108:J7:12:DG:H1'	108:J7:13:DT:H5'	2.00	0.42
108:J7:27:DT:H1'	108:J7:28:DC:H5'	2.02	0.42
109:J8:35:DC:C6	237:X7:1:DT:H72	2.54	0.42
113:JD:33:DG:H1'	113:JD:34:DT:H5'	2.00	0.42
127:L3:9:DT:C2'	127:L3:10:DT:H72	2.48	0.42
129:L6:18:DA:H2'	129:L6:19:DT:H72	2.00	0.42
133:LA:19:DG:H1'	133:LA:20:DT:H5'	2.00	0.42
145:MD:24:DG:H2''	145:MD:25:DC:OP2	2.19	0.42
145:MD:33:DG:H1'	145:MD:34:DT:H5'	2.00	0.42
145:MD:38:DG:H2''	145:MD:39:DC:OP2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
152:N9:12:DG:H1'	152:N9:13:DT:H5'	2.00	0.42
165:OD:33:DA:H2'	165:OD:34:DT:H72	2.00	0.42
167:P3:5:DA:H2'	167:P3:6:DT:H72	2.00	0.42
173:PA:36:DG:H2''	173:PA:37:DC:OP2	2.19	0.42
178:Q5:26:DA:H2'	178:Q5:27:DT:H72	2.00	0.42
180:Q8:14:DA:H2'	180:Q8:15:DT:H72	2.00	0.42
186:R3:20:DC:C6	186:R3:21:DT:H72	2.54	0.42
196:S5:4:DG:H1'	196:S5:5:DT:H5'	2.00	0.42
212:U2:14:DA:H2'	212:U2:15:DT:H72	2.00	0.42
214:U5:12:DA:H2'	214:U5:13:DT:H72	2.00	0.42
230:W3:23:DA:H2'	230:W3:24:DT:H72	2.00	0.42
238:X9:40:DT:C2'	238:X9:41:DT:H72	2.48	0.42
1:A1:17:DA:H2'	1:A1:18:DT:H72	2.00	0.42
3:A3:21:DA:H2'	3:A3:22:DT:H72	2.00	0.42
5:A5:3:DG:H1'	5:A5:4:DT:H5'	2.00	0.42
5:A5:5:DA:H2'	5:A5:6:DT:H72	2.00	0.42
5:A5:16:DA:H2'	5:A5:17:DT:H72	2.00	0.42
7:A7:35:DG:H1'	7:A7:36:DT:H5'	2.00	0.42
7:A7:40:DT:H1'	7:A7:41:DC:H5'	2.02	0.42
11:AB:5:DA:H2'	11:AB:6:DT:H72	2.00	0.42
11:AB:35:DA:H2'	11:AB:36:DT:H72	2.00	0.42
11:AB:54:DG:H1'	11:AB:55:DT:H5'	2.00	0.42
11:AB:79:DC:C6	11:AB:80:DT:H72	2.54	0.42
11:AB:141:DA:H2'	11:AB:142:DT:H72	2.00	0.42
11:AB:171:DA:H2'	11:AB:172:DT:H72	2.00	0.42
11:AB:184:DT:H2'	11:AB:185:DT:H72	2.02	0.42
11:AB:200:DC:C6	11:AB:201:DT:H72	2.54	0.42
11:AB:261:DG:H1'	11:AB:262:DT:H5'	2.00	0.42
11:AB:266:DG:H1'	11:AB:7179:DT:H5'	2.00	0.42
11:AB:355:DC:C6	11:AB:356:DT:H72	2.54	0.42
11:AB:502:DA:H2'	11:AB:503:DT:H72	2.00	0.42
11:AB:544:DC:C6	11:AB:545:DT:H72	2.54	0.42
11:AB:586:DC:C6	11:AB:587:DT:H72	2.54	0.42
11:AB:886:DG:H2''	11:AB:887:DC:OP2	2.19	0.42
11:AB:887:DC:C6	11:AB:888:DT:H72	2.54	0.42
11:AB:904:DC:C6	11:AB:905:DT:H72	2.54	0.42
11:AB:1090:DG:H1'	11:AB:1091:DT:H5'	2.00	0.42
11:AB:1171:DA:H2'	11:AB:1172:DT:H72	2.00	0.42
11:AB:1183:DC:C6	11:AB:1184:DT:H72	2.54	0.42
11:AB:1228:DG:H1'	11:AB:1229:DT:H5'	2.00	0.42
11:AB:1288:DG:H1'	11:AB:1289:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1329:DT:H2'	11:AB:1330:DT:H72	2.02	0.42
11:AB:1419:DT:H1'	11:AB:1420:DC:H5'	2.02	0.42
11:AB:1485:DC:C6	11:AB:1486:DT:H72	2.54	0.42
11:AB:1607:DA:H2'	11:AB:1608:DT:H72	2.00	0.42
11:AB:1675:DC:C6	11:AB:1676:DT:H72	2.54	0.42
11:AB:1742:DT:H1'	11:AB:1743:DC:H5'	2.02	0.42
11:AB:1815:DG:H1'	11:AB:1816:DT:H5'	2.00	0.42
11:AB:2041:DC:C6	11:AB:2042:DT:H72	2.54	0.42
11:AB:2196:DG:H1'	11:AB:2197:DT:H5'	2.00	0.42
11:AB:2213:DG:H1'	11:AB:5622:DT:H5'	2.00	0.42
11:AB:2235:DG:H1'	11:AB:2236:DT:H5'	2.00	0.42
11:AB:2277:DC:C6	11:AB:2278:DT:H72	2.54	0.42
11:AB:2380:DA:H2'	11:AB:2381:DT:H72	2.00	0.42
11:AB:2416:DG:H1'	11:AB:2417:DT:H5'	2.00	0.42
11:AB:2502:DA:H2'	11:AB:2503:DT:H72	2.00	0.42
11:AB:2529:DC:C6	11:AB:2530:DT:H72	2.54	0.42
11:AB:2810:DT:H2'	11:AB:2811:DT:H72	2.02	0.42
11:AB:2827:DA:H2'	11:AB:2828:DT:H72	2.00	0.42
11:AB:2833:DG:H1'	11:AB:2834:DT:H5'	2.00	0.42
11:AB:2866:DA:H2'	11:AB:2867:DT:H72	2.00	0.42
11:AB:2923:DT:H1'	11:AB:2924:DC:H5'	2.02	0.42
11:AB:2984:DC:C6	11:AB:2985:DT:H72	2.54	0.42
11:AB:3047:DC:C6	11:AB:3048:DT:H72	2.54	0.42
11:AB:3089:DA:H2'	11:AB:3090:DT:H72	2.00	0.42
11:AB:3098:DA:H2'	11:AB:3099:DT:H72	2.00	0.42
11:AB:3146:DC:C6	11:AB:3147:DT:H72	2.54	0.42
11:AB:3240:DA:H2'	11:AB:3241:DT:H72	2.00	0.42
11:AB:3295:DT:H1'	11:AB:3296:DC:H5'	2.02	0.42
11:AB:3365:DA:H2'	11:AB:3366:DT:H72	2.00	0.42
11:AB:3522:DT:H2'	11:AB:3523:DT:H72	2.02	0.42
11:AB:3595:DA:H2'	11:AB:3596:DT:H72	2.00	0.42
11:AB:3611:DG:H1'	11:AB:3612:DT:H5'	2.00	0.42
11:AB:3797:DA:H2'	11:AB:3798:DT:H72	2.00	0.42
11:AB:3956:DT:H5'	11:AB:4375:DG:H1'	2.00	0.42
11:AB:3999:DC:C6	11:AB:4000:DT:H72	2.54	0.42
11:AB:4147:DT:H1'	11:AB:4148:DC:H5'	2.02	0.42
11:AB:4228:DG:H1'	11:AB:4229:DT:H5'	2.00	0.42
11:AB:4384:DC:C6	11:AB:4385:DT:H72	2.54	0.42
11:AB:4544:DC:C6	11:AB:4545:DT:H72	2.54	0.42
11:AB:4592:DC:C6	11:AB:4593:DT:H72	2.54	0.42
11:AB:4681:DG:H1'	11:AB:4682:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4726:DC:C6	11:AB:4727:DT:H72	2.54	0.42
11:AB:4733:DC:C6	11:AB:4734:DT:H72	2.54	0.42
11:AB:4750:DA:H2'	11:AB:4751:DT:H72	2.00	0.42
11:AB:4872:DT:H2'	11:AB:4873:DT:H72	2.02	0.42
11:AB:5003:DC:C6	11:AB:5004:DT:H72	2.54	0.42
11:AB:5173:DT:H1'	11:AB:5174:DC:H5'	2.02	0.42
11:AB:5239:DC:C6	11:AB:5240:DT:H72	2.54	0.42
11:AB:5338:DA:H2'	11:AB:5339:DT:H72	2.00	0.42
11:AB:5369:DA:H2'	11:AB:5370:DT:H72	2.00	0.42
11:AB:5422:DA:H2'	11:AB:5423:DT:H72	2.00	0.42
11:AB:5431:DC:C6	11:AB:5432:DT:H72	2.54	0.42
11:AB:5479:DT:H1'	11:AB:5480:DC:H5'	2.02	0.42
11:AB:5562:DA:H2'	11:AB:5563:DT:H72	2.00	0.42
11:AB:5569:DA:H2'	11:AB:5570:DT:H72	2.00	0.42
11:AB:5587:DG:H1'	11:AB:5588:DT:H5'	2.00	0.42
11:AB:5710:DG:H1'	11:AB:5711:DT:H5'	2.00	0.42
11:AB:5731:DT:H2'	11:AB:5732:DT:H72	2.02	0.42
11:AB:5779:DT:H2'	11:AB:5780:DT:H72	2.02	0.42
11:AB:5934:DA:H2'	11:AB:5935:DT:H72	2.00	0.42
11:AB:5942:DG:H1'	11:AB:5943:DT:H5'	2.00	0.42
11:AB:6032:DA:H2'	11:AB:6033:DT:H72	2.00	0.42
11:AB:6053:DC:C6	11:AB:6054:DT:H72	2.54	0.42
11:AB:6132:DT:H2'	11:AB:6133:DT:H72	2.02	0.42
11:AB:6173:DA:H2'	11:AB:6174:DT:H72	2.00	0.42
11:AB:6195:DT:H1'	11:AB:6196:DC:H5'	2.02	0.42
11:AB:6196:DC:C6	11:AB:6197:DT:H72	2.54	0.42
11:AB:6227:DC:C6	11:AB:6228:DT:H72	2.54	0.42
11:AB:6239:DG:H1'	11:AB:6240:DT:H5'	2.00	0.42
11:AB:6371:DC:C6	11:AB:6372:DT:H72	2.54	0.42
11:AB:6425:DT:H2'	11:AB:6426:DT:H72	2.02	0.42
11:AB:6434:DG:H1'	11:AB:6435:DT:H5'	2.00	0.42
11:AB:6436:DC:C6	11:AB:6437:DT:H72	2.54	0.42
11:AB:6458:DG:H1'	11:AB:6459:DT:H5'	2.00	0.42
11:AB:6464:DC:C6	11:AB:6465:DT:H72	2.54	0.42
11:AB:6489:DT:H2'	11:AB:6490:DT:H72	2.02	0.42
11:AB:6499:DG:H1'	11:AB:6500:DT:H5'	2.00	0.42
11:AB:6568:DG:H1'	11:AB:6569:DT:H5'	2.00	0.42
11:AB:6577:DG:H1'	11:AB:6578:DT:H5'	2.00	0.42
11:AB:6600:DT:H2'	11:AB:6601:DT:H72	2.02	0.42
11:AB:6602:DC:C6	11:AB:6603:DT:H72	2.54	0.42
11:AB:6795:DG:H1'	11:AB:6796:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6874:DG:H1'	11:AB:6875:DT:H5'	2.00	0.42
11:AB:6879:DT:H2'	11:AB:6880:DT:H72	2.02	0.42
11:AB:6883:DG:H1'	11:AB:6884:DT:H5'	2.00	0.42
11:AB:6903:DC:C6	11:AB:6904:DT:H72	2.54	0.42
11:AB:6937:DG:H1'	11:AB:6938:DT:H5'	2.00	0.42
11:AB:6957:DT:H2'	11:AB:6958:DT:H72	2.02	0.42
11:AB:6985:DG:H1'	11:AB:6986:DT:H5'	2.00	0.42
11:AB:7078:DG:H1'	11:AB:7079:DT:H5'	2.00	0.42
11:AB:7130:DT:H1'	11:AB:7131:DC:H5'	2.02	0.42
11:AB:7166:DC:C6	11:AB:7167:DT:H72	2.54	0.42
11:AB:7182:DC:C6	11:AB:7183:DT:H72	2.54	0.42
11:AB:7225:DC:C6	11:AB:7226:DT:H72	2.54	0.42
13:AD:11:DG:H1'	13:AD:12:DT:H5'	2.00	0.42
18:B5:8:DG:H2''	18:B5:9:DC:OP2	2.19	0.42
23:BA:27:DC:C6	23:BA:28:DT:H72	2.54	0.42
24:BC:34:DG:H1'	24:BC:35:DT:H5'	2.00	0.42
32:C8:42:DG:H1'	32:C8:43:DT:H5'	2.00	0.42
35:CC:13:DT:H2'	35:CC:14:DT:H72	2.02	0.42
35:CC:15:DC:C6	35:CC:16:DT:H72	2.54	0.42
35:CC:31:DG:H2''	35:CC:32:DC:OP2	2.19	0.42
37:D1:34:DC:C6	37:D1:35:DT:H72	2.54	0.42
43:D8:14:DT:H1'	159:O6:8:DC:H5'	2.01	0.42
43:D8:44:DT:H2'	43:D8:45:DT:H72	2.02	0.42
47:DD:7:DT:H1'	47:DD:8:DC:H5'	2.02	0.42
51:E5:5:DT:H1'	51:E5:6:DC:H5'	2.02	0.42
55:E9:23:DC:C6	55:E9:24:DT:H72	2.54	0.42
55:E9:43:DG:H1'	55:E9:44:DT:H5'	2.00	0.42
59:F1:11:DC:C6	59:F1:12:DT:H72	2.54	0.42
62:F5:21:DT:H2'	62:F5:22:DT:H72	2.02	0.42
68:FC:11:DG:H1'	68:FC:12:DT:H5'	2.00	0.42
69:FD:12:DA:H2'	69:FD:13:DT:H72	2.00	0.42
70:G1:3:DC:C6	70:G1:4:DT:H72	2.54	0.42
72:G3:4:DG:H1'	72:G3:5:DT:H5'	2.00	0.42
82:H2:28:DT:H1'	82:H2:29:DC:H5'	2.02	0.42
82:H2:34:DC:C6	150:N7:1:DT:H72	2.54	0.42
88:H9:4:DT:H1'	88:H9:5:DC:H5'	2.02	0.42
89:HA:17:DT:H2'	89:HA:18:DT:H72	2.02	0.42
90:HC:19:DC:C6	90:HC:20:DT:H72	2.54	0.42
91:HD:26:DG:H1'	91:HD:27:DT:H5'	2.00	0.42
100:IA:11:DC:C6	100:IA:12:DT:H72	2.54	0.42
104:J2:37:DC:C6	104:J2:38:DT:H72	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
108:J7:26:DA:H2'	108:J7:27:DT:H72	2.00	0.42
109:J8:38:DA:H2'	109:J8:39:DT:H72	2.00	0.42
113:JD:19:DA:H2'	113:JD:20:DT:H72	2.00	0.42
114:K1:19:DA:H2'	114:K1:20:DT:H72	2.00	0.42
114:K1:42:DC:C6	114:K1:43:DT:H72	2.54	0.42
118:K6:16:DC:C6	118:K6:17:DT:H72	2.54	0.42
119:K7:6:DT:H2'	119:K7:7:DT:H72	2.02	0.42
122:KA:6:DC:C6	122:KA:7:DT:H72	2.54	0.42
123:KC:13:DT:H2'	123:KC:14:DT:H72	2.02	0.42
126:L2:31:DT:H2'	126:L2:32:DT:H72	2.02	0.42
130:L7:20:DT:H1'	130:L7:21:DC:H5'	2.02	0.42
130:L7:48:DA:H2'	130:L7:49:DT:H72	2.00	0.42
131:L8:27:DG:H1'	131:L8:28:DT:H5'	2.00	0.42
132:L9:18:DT:H2'	132:L9:19:DT:H72	2.02	0.42
135:LD:8:DT:H2'	135:LD:9:DT:H72	2.02	0.42
135:LD:18:DA:H2'	135:LD:19:DT:H72	2.00	0.42
136:M2:18:DG:H2''	136:M2:19:DC:OP2	2.19	0.42
138:M5:23:DG:H1'	138:M5:24:DT:H5'	2.00	0.42
138:M5:30:DC:C6	138:M5:31:DT:H72	2.54	0.42
145:MD:15:DG:H1'	145:MD:16:DT:H5'	2.00	0.42
149:N6:28:DA:H2'	149:N6:29:DT:H72	2.00	0.42
149:N6:36:DG:H1'	149:N6:37:DT:H5'	2.00	0.42
152:N9:8:DA:H2'	152:N9:9:DT:H72	2.00	0.42
152:N9:19:DC:C6	152:N9:20:DT:H72	2.54	0.42
154:NC:19:DT:H2'	154:NC:20:DT:H72	2.02	0.42
155:ND:4:DT:H1'	155:ND:5:DC:H5'	2.02	0.42
156:O2:59:DG:H1'	156:O2:60:DT:H5'	2.00	0.42
158:O5:7:DG:H1'	158:O5:8:DT:H5'	2.00	0.42
159:O6:16:DC:C6	159:O6:17:DT:H72	2.54	0.42
163:OA:14:DC:C6	163:OA:15:DT:H72	2.54	0.42
168:P5:15:DG:H1'	168:P5:16:DT:H5'	2.00	0.42
170:P7:18:DA:H2'	170:P7:19:DT:H72	2.00	0.42
171:P8:20:DA:H2'	171:P8:21:DT:H72	2.00	0.42
172:P9:22:DC:C6	172:P9:23:DT:H72	2.54	0.42
173:PA:18:DG:H1'	173:PA:19:DT:H5'	2.00	0.42
174:PC:7:DG:H2''	174:PC:8:DC:OP2	2.19	0.42
178:Q5:35:DT:H1'	214:U5:15:DC:H5'	2.02	0.42
180:Q8:15:DT:H1'	180:Q8:16:DC:H5'	2.02	0.42
181:Q9:7:DC:C6	181:Q9:8:DT:H72	2.54	0.42
184:QD:26:DA:H2'	184:QD:27:DT:H72	2.00	0.42
188:R7:11:DT:H2'	188:R7:12:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
204:T3:27:DT:H1'	204:T3:28:DC:H5'	2.02	0.42
209:TA:3:DT:H1'	209:TA:4:DC:H5'	2.02	0.42
209:TA:12:DG:H2''	209:TA:13:DC:OP2	2.19	0.42
212:U2:5:DC:C6	212:U2:6:DT:H72	2.54	0.42
218:UA:16:DG:H1'	218:UA:17:DT:H5'	2.00	0.42
223:V5:39:DA:H2'	223:V5:40:DT:H72	2.00	0.42
227:VA:12:DG:H1'	227:VA:13:DT:H5'	2.00	0.42
231:W5:25:DA:H2'	231:W5:26:DT:H72	2.00	0.42
236:X5:14:DA:H2'	236:X5:15:DT:H72	2.00	0.42
237:X7:2:DA:H2'	237:X7:3:DT:H72	2.00	0.42
238:X9:8:DA:H2'	238:X9:9:DT:H72	2.00	0.42
4:A4:15:DA:H2'	4:A4:16:DT:H72	2.00	0.42
5:A5:11:DT:C2'	5:A5:12:DT:H72	2.48	0.42
6:A6:15:DT:H1'	6:A6:16:DC:H5'	2.02	0.42
7:A7:38:DT:C2'	7:A7:39:DT:H72	2.48	0.42
11:AB:38:DG:H1'	11:AB:39:DT:H5'	2.00	0.42
11:AB:56:DA:H2'	11:AB:57:DT:H72	2.00	0.42
11:AB:161:DA:H2'	11:AB:162:DT:H72	2.00	0.42
11:AB:195:DT:H1'	11:AB:196:DC:H5'	2.02	0.42
11:AB:201:DT:H1'	11:AB:202:DC:H5'	2.02	0.42
11:AB:445:DG:H1'	11:AB:446:DT:H5'	2.01	0.42
11:AB:447:DT:H1'	11:AB:448:DC:H5'	2.02	0.42
11:AB:532:DA:H2'	11:AB:533:DT:H72	2.00	0.42
11:AB:565:DC:C6	11:AB:566:DT:H72	2.54	0.42
11:AB:649:DC:C6	11:AB:650:DT:H72	2.54	0.42
11:AB:716:DA:H2'	11:AB:717:DT:H72	2.00	0.42
11:AB:717:DT:H1'	11:AB:718:DC:H5'	2.02	0.42
11:AB:787:DA:H2'	11:AB:788:DT:H72	2.00	0.42
11:AB:824:DG:H1'	11:AB:825:DT:H5'	2.00	0.42
11:AB:826:DC:C6	11:AB:827:DT:H72	2.54	0.42
11:AB:1497:DA:H2'	11:AB:1498:DT:H72	2.00	0.42
11:AB:1556:DC:C6	11:AB:1557:DT:H72	2.54	0.42
11:AB:1626:DC:C6	11:AB:1627:DT:H72	2.54	0.42
11:AB:1636:DT:H1'	11:AB:1637:DC:H5'	2.02	0.42
11:AB:1688:DA:H2'	11:AB:1689:DT:H72	2.00	0.42
11:AB:1709:DA:H2'	11:AB:1710:DT:H72	2.00	0.42
11:AB:1777:DA:H2'	11:AB:1778:DT:H72	2.00	0.42
11:AB:1821:DG:H1'	11:AB:1822:DT:H5'	2.00	0.42
11:AB:1832:DT:H1'	11:AB:1833:DC:H5'	2.02	0.42
11:AB:1870:DA:H2'	11:AB:1871:DT:H72	2.00	0.42
11:AB:1932:DC:C6	11:AB:1933:DT:H72	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2127:DA:H2'	11:AB:2128:DT:H72	2.00	0.42
11:AB:2243:DT:C2'	11:AB:2244:DT:H72	2.48	0.42
11:AB:2528:DT:H1'	11:AB:2529:DC:H5'	2.02	0.42
11:AB:2607:DG:H1'	11:AB:2608:DT:H5'	2.00	0.42
11:AB:2640:DA:H2'	11:AB:2641:DT:H72	2.00	0.42
11:AB:2861:DT:H2'	11:AB:2862:DT:H72	2.02	0.42
11:AB:2875:DT:H1'	11:AB:2876:DC:H5'	2.01	0.42
11:AB:3037:DA:H2'	11:AB:3038:DT:H72	2.00	0.42
11:AB:3058:DA:H2'	11:AB:3059:DT:H72	2.00	0.42
11:AB:3164:DT:H2'	11:AB:3165:DT:H72	2.02	0.42
11:AB:3245:DT:C2'	11:AB:3246:DT:H72	2.48	0.42
11:AB:3268:DT:H1'	11:AB:3269:DC:H5'	2.02	0.42
11:AB:3374:DC:C6	11:AB:3375:DT:H72	2.54	0.42
11:AB:3615:DT:H1'	11:AB:3616:DC:H5'	2.02	0.42
11:AB:3715:DT:H2'	11:AB:3716:DT:H72	2.02	0.42
11:AB:3731:DG:H1'	11:AB:3732:DT:H5'	2.00	0.42
11:AB:3991:DC:C6	11:AB:3992:DT:H72	2.54	0.42
11:AB:4094:DG:H1'	11:AB:4095:DT:H5'	2.00	0.42
11:AB:4100:DG:H1'	11:AB:4101:DT:H5'	2.00	0.42
11:AB:4202:DG:H2''	11:AB:4203:DC:OP2	2.19	0.42
11:AB:4281:DA:H2'	11:AB:4282:DT:H72	2.00	0.42
11:AB:4290:DG:H1'	11:AB:4291:DT:H5'	2.00	0.42
11:AB:4325:DC:C6	11:AB:4326:DT:H72	2.54	0.42
11:AB:4352:DA:H2'	11:AB:4353:DT:H72	1.99	0.42
11:AB:4363:DT:C2'	11:AB:4364:DT:H72	2.48	0.42
11:AB:4494:DC:C6	11:AB:4495:DT:H72	2.54	0.42
11:AB:4528:DA:H2'	11:AB:4529:DT:H72	2.00	0.42
11:AB:4551:DG:H1'	11:AB:4552:DT:H5'	2.00	0.42
11:AB:4881:DG:H1'	11:AB:4882:DT:H5'	2.00	0.42
11:AB:5021:DT:H2'	11:AB:5022:DT:H72	2.02	0.42
11:AB:5097:DT:H1'	11:AB:5098:DC:H5'	2.02	0.42
11:AB:5113:DG:H2''	11:AB:5114:DC:OP2	2.19	0.42
11:AB:5268:DT:C2'	11:AB:5269:DT:H72	2.48	0.42
11:AB:5297:DA:H2'	11:AB:5298:DT:H72	2.00	0.42
11:AB:5340:DA:H2'	11:AB:5341:DT:H72	2.00	0.42
11:AB:5700:DT:H1'	11:AB:5701:DC:H5'	2.02	0.42
11:AB:5765:DC:C6	11:AB:5766:DT:H72	2.54	0.42
11:AB:5795:DC:C6	11:AB:5796:DT:H72	2.54	0.42
11:AB:5833:DA:H2'	11:AB:5834:DT:H72	2.00	0.42
11:AB:5924:DG:H1'	11:AB:5925:DT:H5'	2.00	0.42
11:AB:6070:DA:H2'	11:AB:6071:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6126:DG:H1'	11:AB:6127:DT:H5'	2.00	0.42
11:AB:6218:DG:H2''	11:AB:6219:DC:OP2	2.20	0.42
11:AB:6284:DC:C6	11:AB:6285:DT:H72	2.54	0.42
11:AB:6313:DT:H1'	11:AB:6314:DC:H5'	2.02	0.42
11:AB:6359:DC:C6	11:AB:6360:DT:H72	2.54	0.42
11:AB:6381:DC:C6	11:AB:6382:DT:H72	2.54	0.42
11:AB:6518:DG:H1'	11:AB:6519:DT:H5'	2.00	0.42
11:AB:6523:DA:H2'	11:AB:6524:DT:H72	2.00	0.42
11:AB:6533:DC:C6	11:AB:6534:DT:H72	2.54	0.42
11:AB:6550:DT:H1'	11:AB:6551:DC:H5'	2.02	0.42
11:AB:6712:DC:C6	11:AB:6713:DT:H72	2.54	0.42
11:AB:6765:DG:H1'	11:AB:6766:DT:H5'	2.00	0.42
11:AB:6827:DC:C6	11:AB:6828:DT:H72	2.54	0.42
11:AB:6862:DC:C6	11:AB:6863:DT:H72	2.54	0.42
11:AB:6944:DA:H2'	11:AB:6945:DT:H72	2.00	0.42
11:AB:6947:DT:H1'	11:AB:6948:DC:H5'	2.02	0.42
11:AB:7032:DG:H1'	11:AB:7033:DT:H5'	2.00	0.42
11:AB:7047:DT:H2'	11:AB:7048:DT:H72	2.02	0.42
11:AB:7180:DG:H1'	11:AB:7181:DT:H5'	2.00	0.42
12:AC:22:DG:H2''	65:F8:1:DC:OP1	2.19	0.42
17:B4:18:DG:H1'	17:B4:19:DT:H5'	2.00	0.42
21:B8:26:DG:H1'	21:B8:27:DT:H5'	2.00	0.42
22:B9:17:DG:H1'	22:B9:18:DT:H5'	2.00	0.42
22:B9:39:DT:C2'	22:B9:40:DT:H72	2.48	0.42
26:C1:15:DT:H2'	26:C1:16:DT:H72	2.02	0.42
32:C8:11:DT:H5'	230:W3:42:DG:H1'	2.00	0.42
32:C8:44:DC:C6	32:C8:45:DT:H72	2.54	0.42
37:D1:4:DT:C2'	37:D1:5:DT:H72	2.48	0.42
37:D1:37:DC:C6	37:D1:38:DT:H72	2.54	0.42
41:D6:33:DG:H1'	41:D6:34:DT:H5'	2.00	0.42
43:D8:13:DA:H2'	43:D8:14:DT:H72	2.00	0.42
48:E1:1:DT:H72	187:R5:42:DC:C6	2.54	0.42
51:E5:31:DT:C2'	51:E5:32:DT:H72	2.48	0.42
54:E8:31:DT:H72	90:HC:16:DC:C6	2.54	0.42
54:E8:37:DG:H1'	79:GC:1:DT:H5'	2.00	0.42
60:F2:7:DC:C6	60:F2:8:DT:H72	2.54	0.42
61:F3:2:DA:H2'	61:F3:3:DT:H72	2.00	0.42
62:F5:32:DT:H1'	62:F5:33:DC:H5'	2.02	0.42
65:F8:1:DC:C6	65:F8:2:DT:H72	2.54	0.42
72:G3:11:DG:H1'	72:G3:12:DT:H5'	2.00	0.42
73:G5:16:DG:H1'	73:G5:17:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:G7:13:DA:H2'	75:G7:14:DT:H72	2.00	0.42
76:G8:1:DG:H1'	76:G8:2:DT:H5'	2.00	0.42
76:G8:15:DG:H1'	76:G8:16:DT:H5'	2.00	0.42
77:G9:1:DC:C6	77:G9:2:DT:H72	2.54	0.42
84:H5:18:DA:H2'	84:H5:19:DT:H72	2.00	0.42
85:H6:24:DC:C6	85:H6:25:DT:H72	2.54	0.42
94:I3:40:DG:H1'	94:I3:41:DT:H5'	2.00	0.42
99:I9:14:DG:H1'	99:I9:15:DT:H5'	2.00	0.42
102:ID:30:DG:H2''	102:ID:31:DC:OP2	2.19	0.42
103:J1:7:DC:C6	175:PD:7:DT:H72	2.54	0.42
109:J8:31:DA:H2'	109:J8:32:DT:H72	1.99	0.42
117:K5:12:DT:H1'	117:K5:13:DC:H5'	2.02	0.42
117:K5:36:DG:H1'	117:K5:37:DT:H5'	2.00	0.42
126:L2:8:DC:C6	126:L2:9:DT:H72	2.54	0.42
128:L5:6:DC:C6	128:L5:7:DT:H72	2.54	0.42
138:M5:9:DT:H2'	138:M5:10:DT:H72	2.02	0.42
138:M5:39:DT:H2'	138:M5:40:DT:H72	2.02	0.42
143:MA:15:DC:C6	143:MA:16:DT:H72	2.54	0.42
147:N3:13:DC:C6	147:N3:14:DT:H72	2.54	0.42
149:N6:21:DG:H1'	149:N6:22:DT:H5'	2.00	0.42
151:N8:18:DT:H72	164:OC:16:DC:C6	2.54	0.42
153:NA:8:DT:H1'	153:NA:9:DC:H5'	2.02	0.42
154:NC:12:DT:H2'	154:NC:13:DT:H72	2.02	0.42
157:O3:22:DA:H2'	157:O3:23:DT:H72	2.00	0.42
158:O5:15:DA:H2'	158:O5:16:DT:H72	2.00	0.42
158:O5:40:DT:H1'	158:O5:41:DC:H5'	2.02	0.42
160:O7:8:DG:H1'	160:O7:9:DT:H5'	2.00	0.42
161:O8:6:DG:H1'	161:O8:7:DT:H5'	2.00	0.42
163:OA:16:DA:H2'	163:OA:17:DT:H72	2.00	0.42
164:OC:26:DG:H1'	164:OC:27:DT:H5'	2.00	0.42
165:OD:56:DC:C6	165:OD:57:DT:H72	2.54	0.42
166:P2:13:DG:H1'	166:P2:14:DT:H5'	2.00	0.42
167:P3:14:DT:C2'	167:P3:15:DT:H72	2.48	0.42
171:P8:12:DC:C6	171:P8:13:DT:H72	2.54	0.42
177:Q3:10:DT:H2'	177:Q3:11:DT:H72	2.02	0.42
178:Q5:24:DG:H1'	178:Q5:25:DT:H5'	2.00	0.42
179:Q7:5:DT:H1'	179:Q7:6:DC:H5'	2.02	0.42
179:Q7:19:DA:H2'	179:Q7:20:DT:H72	2.00	0.42
189:R8:5:DA:H2'	189:R8:6:DT:H72	2.00	0.42
192:RC:7:DG:H2''	192:RC:8:DC:OP2	2.19	0.42
195:S3:13:DT:H1'	195:S3:14:DC:H5'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
204:T3:18:DG:H1'	204:T3:19:DT:H5'	2.00	0.42
205:T5:18:DC:C6	205:T5:19:DT:H72	2.54	0.42
213:U3:2:DA:H2'	213:U3:3:DT:H72	2.00	0.42
214:U5:10:DC:C6	214:U5:11:DT:H72	2.54	0.42
215:U7:5:DA:H2'	215:U7:6:DT:H72	2.00	0.42
217:U9:12:DC:C6	217:U9:13:DT:H72	2.54	0.42
219:UC:6:DC:C6	219:UC:7:DT:H72	2.54	0.42
221:V2:15:DG:H1'	221:V2:16:DT:H5'	2.00	0.42
230:W3:7:DC:C6	230:W3:8:DT:H72	2.54	0.42
230:W3:32:DT:C2'	230:W3:33:DT:H72	2.48	0.42
232:W7:20:DC:C6	232:W7:21:DT:H72	2.54	0.42
235:WD:18:DA:H2'	235:WD:19:DT:H72	2.00	0.42
2:A2:21:DC:C6	2:A2:22:DT:H72	2.54	0.42
4:A4:26:DT:H2'	4:A4:27:DT:H72	2.02	0.42
5:A5:25:DG:H1'	5:A5:26:DT:H5'	2.00	0.42
8:A8:13:DT:C2'	8:A8:14:DT:H72	2.48	0.42
11:AB:20:DG:H2''	11:AB:21:DC:OP2	2.19	0.42
11:AB:340:DG:H1'	11:AB:341:DT:H5'	2.00	0.42
11:AB:377:DT:H1'	11:AB:378:DC:H5'	2.02	0.42
11:AB:448:DC:C6	11:AB:449:DT:H72	2.54	0.42
11:AB:499:DG:H2''	11:AB:500:DC:OP2	2.19	0.42
11:AB:505:DC:C6	11:AB:506:DT:H72	2.54	0.42
11:AB:571:DC:C6	11:AB:572:DT:H72	2.54	0.42
11:AB:587:DT:H1'	11:AB:588:DC:H5'	2.02	0.42
11:AB:592:DC:C6	11:AB:593:DT:H72	2.54	0.42
11:AB:670:DC:C6	11:AB:671:DT:H72	2.54	0.42
11:AB:766:DG:H2''	11:AB:767:DC:OP2	2.19	0.42
11:AB:831:DC:C6	11:AB:832:DT:H72	2.54	0.42
11:AB:898:DG:H1'	11:AB:899:DT:H5'	2.00	0.42
11:AB:910:DG:H1'	11:AB:911:DT:H5'	2.00	0.42
11:AB:981:DT:H5'	11:AB:6714:DG:H1'	2.00	0.42
11:AB:1000:DC:C6	11:AB:1001:DT:H72	2.54	0.42
11:AB:1096:DC:C6	11:AB:1097:DT:H72	2.54	0.42
11:AB:1132:DC:C6	11:AB:1133:DT:H72	2.54	0.42
11:AB:1138:DG:H1'	11:AB:1139:DT:H5'	2.00	0.42
11:AB:1173:DT:H1'	11:AB:1174:DC:H5'	2.02	0.42
11:AB:1215:DA:H2'	11:AB:1216:DT:H72	2.00	0.42
11:AB:1249:DC:C6	11:AB:1250:DT:H72	2.54	0.42
11:AB:1305:DT:H1'	11:AB:1306:DC:H5'	2.02	0.42
11:AB:1343:DC:C6	11:AB:1344:DT:H72	2.54	0.42
11:AB:1376:DG:H1'	11:AB:1377:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1438:DT:C2'	11:AB:1439:DT:H72	2.48	0.42
11:AB:1450:DG:H1'	11:AB:1451:DT:H5'	2.00	0.42
11:AB:1459:DG:H2''	11:AB:1460:DC:OP2	2.19	0.42
11:AB:1680:DT:H2'	11:AB:1681:DT:H72	2.02	0.42
11:AB:1736:DA:H2'	11:AB:1737:DT:H72	2.00	0.42
11:AB:1773:DG:H1'	11:AB:1774:DT:H5'	2.00	0.42
11:AB:2025:DC:C6	11:AB:2026:DT:H72	2.54	0.42
11:AB:2132:DT:C2'	11:AB:2133:DT:H72	2.48	0.42
11:AB:2141:DT:H1'	11:AB:2142:DC:H5'	2.02	0.42
11:AB:2198:DT:H2'	11:AB:2199:DT:H72	2.02	0.42
11:AB:2527:DT:H2'	11:AB:5284:DT:H72	2.02	0.42
11:AB:2584:DC:C6	11:AB:2585:DT:H72	2.54	0.42
11:AB:2620:DA:H2'	11:AB:2621:DT:H72	2.00	0.42
11:AB:2662:DA:H2'	11:AB:2663:DT:H72	2.00	0.42
11:AB:2677:DA:H2'	11:AB:2678:DT:H72	2.00	0.42
11:AB:2690:DT:H2'	11:AB:2691:DT:H72	2.02	0.42
11:AB:2738:DT:C2'	11:AB:2739:DT:H72	2.48	0.42
11:AB:2829:DG:H1'	11:AB:2830:DT:H5'	2.00	0.42
11:AB:2860:DA:H2'	11:AB:2861:DT:H72	2.00	0.42
11:AB:2937:DT:H1'	11:AB:2938:DC:H5'	2.02	0.42
11:AB:2971:DT:H1'	11:AB:2972:DC:H5'	2.02	0.42
11:AB:3113:DC:C6	11:AB:3114:DT:H72	2.54	0.42
11:AB:3159:DC:C6	11:AB:3160:DT:H72	2.54	0.42
11:AB:3185:DC:C6	11:AB:3186:DT:H72	2.54	0.42
11:AB:3199:DA:H2'	11:AB:3200:DT:H72	2.00	0.42
11:AB:3262:DT:H1'	11:AB:3263:DC:H5'	2.02	0.42
11:AB:3263:DC:C6	11:AB:3264:DT:H72	2.54	0.42
11:AB:3597:DA:H2'	11:AB:3598:DT:H72	2.00	0.42
11:AB:3630:DT:H1'	11:AB:3631:DC:H5'	2.02	0.42
11:AB:3647:DC:C6	11:AB:3648:DT:H72	2.54	0.42
11:AB:3693:DA:H2'	11:AB:3694:DT:H72	2.00	0.42
11:AB:3695:DC:C6	11:AB:3696:DT:H72	2.54	0.42
11:AB:3757:DG:H1'	11:AB:3758:DT:H5'	2.00	0.42
11:AB:3764:DC:C6	11:AB:3765:DT:H72	2.54	0.42
11:AB:3902:DC:C6	11:AB:3903:DT:H72	2.54	0.42
11:AB:3904:DC:C6	11:AB:3905:DT:H72	2.54	0.42
11:AB:4043:DT:H1'	11:AB:4044:DC:H5'	2.02	0.42
11:AB:4078:DA:H2'	11:AB:4079:DT:H72	2.00	0.42
11:AB:4152:DT:H72	11:AB:4319:DT:H2'	2.02	0.42
11:AB:4160:DT:C2'	11:AB:4161:DT:H72	2.48	0.42
11:AB:4204:DT:H1'	11:AB:4205:DC:H5'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4253:DC:C6	11:AB:4254:DT:H72	2.54	0.42
11:AB:4416:DA:H2'	11:AB:4417:DT:H72	2.00	0.42
11:AB:4456:DA:H2'	11:AB:4457:DT:H72	2.00	0.42
11:AB:4510:DG:H2''	11:AB:4511:DC:OP2	2.19	0.42
11:AB:4535:DG:H1'	11:AB:4536:DT:H5'	2.00	0.42
11:AB:4604:DG:H1'	11:AB:4605:DT:H5'	2.00	0.42
11:AB:4614:DT:H1'	11:AB:4615:DC:H5'	2.01	0.42
11:AB:4626:DC:C6	11:AB:4627:DT:H72	2.54	0.42
11:AB:4728:DT:H1'	11:AB:4729:DC:H5'	2.02	0.42
11:AB:4787:DA:H2'	11:AB:4788:DT:H72	2.00	0.42
11:AB:4855:DC:C6	11:AB:4856:DT:H72	2.54	0.42
11:AB:4941:DT:H1'	11:AB:4942:DC:H5'	2.02	0.42
11:AB:5091:DC:C6	11:AB:5092:DT:H72	2.54	0.42
11:AB:5104:DC:C6	11:AB:5105:DT:H72	2.54	0.42
11:AB:5140:DC:C6	11:AB:5141:DT:H72	2.54	0.42
11:AB:5183:DG:H1'	11:AB:5184:DT:H5'	2.00	0.42
11:AB:5213:DT:H1'	11:AB:5214:DC:H5'	2.02	0.42
11:AB:5264:DA:H2'	11:AB:5265:DT:H72	2.00	0.42
11:AB:5323:DG:H2''	11:AB:5324:DC:OP2	2.19	0.42
11:AB:5361:DA:H2'	11:AB:5362:DT:H72	2.00	0.42
11:AB:5380:DC:C6	11:AB:5381:DT:H72	2.54	0.42
11:AB:5382:DG:H1'	11:AB:5383:DT:H5'	2.00	0.42
11:AB:5435:DT:C2'	11:AB:5436:DT:H72	2.48	0.42
11:AB:5470:DT:H1'	11:AB:5471:DC:H5'	2.02	0.42
11:AB:5512:DT:H1'	11:AB:5513:DC:H5'	2.02	0.42
11:AB:5579:DA:H2'	11:AB:5580:DT:H72	2.00	0.42
11:AB:5615:DC:C6	11:AB:5616:DT:H72	2.54	0.42
11:AB:5672:DT:H2'	11:AB:5673:DT:H72	2.02	0.42
11:AB:5721:DT:H1'	11:AB:5722:DC:H5'	2.02	0.42
11:AB:5981:DC:C6	11:AB:5982:DT:H72	2.54	0.42
11:AB:6002:DT:H2'	11:AB:6003:DT:H72	2.02	0.42
11:AB:6113:DC:C6	11:AB:6114:DT:H72	2.54	0.42
11:AB:6191:DT:H2'	11:AB:6192:DT:H72	2.02	0.42
11:AB:6273:DA:H2'	11:AB:6274:DT:H72	2.00	0.42
11:AB:6392:DC:C6	11:AB:6393:DT:H72	2.54	0.42
11:AB:6396:DT:C2'	11:AB:6397:DT:H72	2.48	0.42
11:AB:6548:DT:C2'	11:AB:6549:DT:H72	2.48	0.42
11:AB:6573:DG:H1'	11:AB:6574:DT:H5'	2.00	0.42
11:AB:6614:DC:C6	11:AB:6615:DT:H72	2.54	0.42
11:AB:6648:DA:H2'	11:AB:6649:DT:H72	2.00	0.42
11:AB:6769:DA:H2'	11:AB:6770:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6792:DC:C6	11:AB:6793:DT:H72	2.54	0.42
11:AB:6840:DC:C6	11:AB:6841:DT:H72	2.54	0.42
11:AB:6888:DC:C6	11:AB:6889:DT:H72	2.54	0.42
11:AB:6940:DG:H2'	11:AB:6941:DC:OP2	2.19	0.42
11:AB:7026:DA:H2'	11:AB:7027:DT:H72	2.00	0.42
11:AB:7040:DG:H1'	11:AB:7041:DT:H5'	2.00	0.42
11:AB:7044:DT:H1'	11:AB:7045:DC:H5'	2.02	0.42
11:AB:7066:DG:H1'	11:AB:7067:DT:H5'	2.00	0.42
11:AB:7170:DT:C2'	11:AB:7171:DT:H72	2.48	0.42
18:B5:36:DT:H1'	18:B5:37:DC:H5'	2.02	0.42
21:B8:5:DT:C2'	21:B8:6:DT:H72	2.48	0.42
21:B8:7:DT:H1'	21:B8:8:DC:H5'	2.02	0.42
21:B8:21:DA:H2'	21:B8:22:DT:H72	2.00	0.42
22:B9:36:DC:H5'	228:VC:7:DT:H1'	2.02	0.42
23:BA:24:DC:C6	23:BA:25:DT:H72	2.54	0.42
31:C7:10:DA:H2'	31:C7:11:DT:H72	2.00	0.42
33:C9:14:DG:H1'	33:C9:15:DT:H5'	2.00	0.42
33:C9:17:DA:H2'	33:C9:18:DT:H72	2.00	0.42
41:D6:6:DC:C6	41:D6:7:DT:H72	2.54	0.42
42:D7:4:DG:H1'	42:D7:5:DT:H5'	2.00	0.42
43:D8:28:DT:H1'	52:E6:22:DC:H5'	2.02	0.42
43:D8:41:DA:H2'	43:D8:42:DT:H72	2.00	0.42
50:E3:6:DA:H2'	50:E3:7:DT:H72	2.00	0.42
50:E3:11:DT:C2'	50:E3:12:DT:H72	2.48	0.42
54:E8:13:DT:C2'	54:E8:14:DT:H72	2.48	0.42
57:EC:19:DA:H2'	57:EC:20:DT:H72	2.00	0.42
60:F2:29:DC:C6	60:F2:30:DT:H72	2.54	0.42
62:F5:7:DC:C6	62:F5:8:DT:H72	2.54	0.42
71:G2:7:DT:H1'	71:G2:8:DC:H5'	2.02	0.42
72:G3:2:DC:C6	72:G3:3:DT:H72	2.54	0.42
79:GC:1:DT:H1'	79:GC:2:DC:H5'	2.02	0.42
79:GC:15:DT:H1'	79:GC:16:DC:H5'	2.02	0.42
81:H1:20:DA:H2'	81:H1:21:DT:H72	2.00	0.42
82:H2:47:DG:H2''	82:H2:48:DC:OP2	2.19	0.42
83:H3:6:DC:C6	83:H3:7:DT:H72	2.54	0.42
83:H3:13:DA:H2'	83:H3:14:DT:H72	2.00	0.42
84:H5:14:DG:H1'	84:H5:15:DT:H5'	2.00	0.42
95:I5:4:DT:H2'	95:I5:5:DT:H72	2.02	0.42
96:I6:11:DT:C2'	96:I6:12:DT:H72	2.48	0.42
109:J8:53:DG:H2''	109:J8:54:DC:OP2	2.19	0.42
110:J9:21:DC:C6	110:J9:22:DT:H72	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
114:K1:39:DC:C6	114:K1:40:DT:H72	2.54	0.42
119:K7:3:DG:H2''	119:K7:4:DC:OP2	2.19	0.42
126:L2:17:DG:H1'	126:L2:18:DT:H5'	2.00	0.42
128:L5:4:DG:H1'	128:L5:5:DT:H5'	2.00	0.42
130:L7:30:DG:H1'	130:L7:31:DT:H5'	2.00	0.42
130:L7:35:DA:H2'	177:Q3:21:DT:H72	2.00	0.42
133:LA:7:DC:C6	133:LA:8:DT:H72	2.54	0.42
138:M5:37:DC:C6	138:M5:38:DT:H72	2.54	0.42
145:MD:9:DA:H2'	226:V9:12:DT:H72	2.00	0.42
146:N2:3:DG:H1'	146:N2:4:DT:H5'	2.00	0.42
146:N2:11:DT:C2'	146:N2:12:DT:H72	2.48	0.42
147:N3:32:DT:C2'	147:N3:33:DT:H72	2.48	0.42
148:N5:10:DT:H1'	148:N5:11:DC:H5'	2.02	0.42
149:N6:31:DT:H1'	149:N6:32:DC:H5'	2.02	0.42
160:O7:43:DG:H1'	160:O7:44:DT:H5'	2.00	0.42
161:O8:17:DC:C6	161:O8:18:DT:H72	2.54	0.42
165:OD:24:DA:H2'	165:OD:25:DT:H72	2.00	0.42
166:P2:6:DG:H1'	166:P2:7:DT:H5'	2.00	0.42
178:Q5:10:DA:H2'	178:Q5:11:DT:H72	2.00	0.42
178:Q5:12:DC:C6	178:Q5:13:DT:H72	2.54	0.42
180:Q8:22:DC:C6	180:Q8:23:DT:H72	2.54	0.42
181:Q9:29:DT:H2'	181:Q9:30:DT:H72	2.02	0.42
184:QD:11:DT:H2'	184:QD:12:DT:H72	2.02	0.42
185:R2:11:DG:H2''	185:R2:12:DC:OP2	2.19	0.42
186:R3:14:DT:H1'	186:R3:15:DC:H5'	2.02	0.42
186:R3:15:DC:C6	186:R3:16:DT:H72	2.54	0.42
187:R5:12:DC:C6	187:R5:13:DT:H72	2.54	0.42
188:R7:8:DG:H2''	188:R7:9:DC:OP2	2.19	0.42
189:R8:8:DC:C6	189:R8:9:DT:H72	2.54	0.42
189:R8:34:DT:H1'	189:R8:35:DC:H5'	2.01	0.42
190:R9:1:DT:C2'	190:R9:2:DT:H72	2.48	0.42
191:RA:16:DA:H2'	191:RA:17:DT:H72	2.00	0.42
191:RA:17:DT:H2'	191:RA:18:DT:H72	2.02	0.42
193:RD:20:DA:H2'	193:RD:21:DT:H72	2.00	0.42
195:S3:3:DC:C6	195:S3:4:DT:H72	2.54	0.42
209:TA:40:DT:H1'	209:TA:41:DC:H5'	2.02	0.42
211:TD:24:DA:H2'	211:TD:25:DT:H72	2.00	0.42
211:TD:25:DT:H2'	211:TD:26:DT:H72	2.02	0.42
212:U2:20:DG:H1'	212:U2:21:DT:H5'	2.00	0.42
214:U5:30:DG:H1'	214:U5:31:DT:H5'	2.00	0.42
216:U8:8:DA:H2'	216:U8:9:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
218:UA:18:DG:H1'	218:UA:19:DT:H5'	2.00	0.42
221:V2:1:DC:C6	221:V2:2:DT:H72	2.54	0.42
222:V3:8:DT:C2'	222:V3:9:DT:H72	2.48	0.42
223:V5:3:DG:H1'	223:V5:4:DT:H5'	2.00	0.42
226:V9:17:DT:H1'	226:V9:18:DC:H5'	2.02	0.42
228:VC:6:DA:H2'	228:VC:7:DT:H72	2.00	0.42
4:A4:31:DA:H2'	4:A4:32:DT:H72	2.00	0.42
5:A5:6:DT:H1'	5:A5:7:DC:H5'	2.02	0.42
6:A6:14:DC:C6	6:A6:15:DT:H72	2.54	0.42
7:A7:9:DA:H2'	7:A7:10:DT:H72	2.00	0.42
11:AB:32:DG:H1'	11:AB:33:DT:H5'	2.00	0.42
11:AB:44:DG:H2''	11:AB:45:DC:OP2	2.19	0.42
11:AB:359:DG:H1'	11:AB:360:DT:H5'	2.00	0.42
11:AB:361:DG:C8	11:AB:362:DT:H72	2.55	0.42
11:AB:387:DC:C6	11:AB:388:DT:H72	2.54	0.42
11:AB:457:DG:H2''	11:AB:458:DC:OP2	2.19	0.42
11:AB:463:DC:C6	11:AB:464:DT:H72	2.54	0.42
11:AB:472:DC:C6	11:AB:473:DT:H72	2.54	0.42
11:AB:584:DG:H1'	11:AB:585:DT:H5'	2.00	0.42
11:AB:671:DT:H1'	11:AB:672:DC:H5'	2.02	0.42
11:AB:694:DC:C6	11:AB:695:DT:H72	2.54	0.42
11:AB:771:DT:C2'	11:AB:772:DT:H72	2.48	0.42
11:AB:809:DA:H2'	11:AB:810:DT:H72	2.00	0.42
11:AB:842:DT:H1'	11:AB:843:DC:H5'	2.02	0.42
11:AB:853:DC:C6	11:AB:854:DT:H72	2.54	0.42
11:AB:948:DT:H1'	11:AB:949:DC:H5'	2.02	0.42
11:AB:1081:DC:C6	11:AB:1082:DT:H72	2.54	0.42
11:AB:1153:DG:H1'	11:AB:1154:DT:H5'	2.00	0.42
11:AB:1471:DT:H2'	11:AB:1472:DT:H72	2.02	0.42
11:AB:1499:DC:C6	11:AB:1500:DT:H72	2.54	0.42
11:AB:1562:DC:C6	11:AB:1563:DT:H72	2.54	0.42
11:AB:1608:DT:H2'	11:AB:1609:DT:H72	2.02	0.42
11:AB:1660:DG:H1'	11:AB:1661:DT:H5'	2.00	0.42
11:AB:1740:DT:C2'	11:AB:1741:DT:H72	2.48	0.42
11:AB:1801:DC:C6	11:AB:1802:DT:H72	2.54	0.42
11:AB:1845:DG:C8	11:AB:1846:DT:H72	2.55	0.42
11:AB:1925:DT:H1'	11:AB:1926:DC:H5'	2.02	0.42
11:AB:1931:DT:H1'	11:AB:1932:DC:H5'	2.02	0.42
11:AB:2035:DG:H2''	11:AB:2036:DC:OP2	2.20	0.42
11:AB:2231:DT:H2'	11:AB:2232:DT:H72	2.02	0.42
11:AB:2257:DT:H2'	11:AB:2258:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2281:DC:C6	11:AB:2282:DT:H72	2.54	0.42
11:AB:2412:DT:H1'	11:AB:2413:DC:H5'	2.02	0.42
11:AB:2437:DC:C6	11:AB:2438:DT:H72	2.54	0.42
11:AB:2458:DA:H2'	11:AB:2459:DT:H72	2.00	0.42
11:AB:2625:DT:C2'	11:AB:2626:DT:H72	2.48	0.42
11:AB:2648:DT:H2'	11:AB:2649:DT:H72	2.02	0.42
11:AB:2664:DC:C6	11:AB:2665:DT:H72	2.54	0.42
11:AB:2752:DT:H2'	11:AB:2753:DT:H72	2.02	0.42
11:AB:2891:DT:H2'	11:AB:2892:DT:H72	2.02	0.42
11:AB:2897:DC:C6	11:AB:2898:DT:H72	2.54	0.42
11:AB:2960:DC:C6	11:AB:2961:DT:H72	2.54	0.42
11:AB:3003:DC:C6	11:AB:3004:DT:H72	2.54	0.42
11:AB:3143:DC:C6	11:AB:3144:DT:H72	2.54	0.42
11:AB:3243:DG:H1'	11:AB:3244:DT:H5'	2.00	0.42
11:AB:3254:DC:C6	11:AB:3255:DT:H72	2.54	0.42
11:AB:3284:DC:C6	11:AB:3285:DT:H72	2.54	0.42
11:AB:3589:DT:H1'	11:AB:3590:DC:H5'	2.02	0.42
11:AB:3616:DC:C6	11:AB:3617:DT:H72	2.54	0.42
11:AB:3665:DC:C6	11:AB:3666:DT:H72	2.54	0.42
11:AB:3711:DT:H1'	11:AB:3712:DC:H5'	2.02	0.42
11:AB:3941:DC:C6	11:AB:3942:DT:H72	2.54	0.42
11:AB:4000:DT:H1'	11:AB:4001:DC:H5'	2.02	0.42
11:AB:4136:DC:C6	11:AB:4137:DT:H72	2.54	0.42
11:AB:4184:DG:H2''	11:AB:4185:DC:OP2	2.19	0.42
11:AB:4198:DT:H1'	11:AB:4199:DC:H5'	2.02	0.42
11:AB:4203:DC:C6	11:AB:4204:DT:H72	2.54	0.42
11:AB:4230:DT:H1'	11:AB:4231:DC:H5'	2.02	0.42
11:AB:4489:DG:H2''	11:AB:4490:DC:OP2	2.19	0.42
11:AB:4629:DG:H2''	11:AB:4630:DC:OP2	2.19	0.42
11:AB:4647:DC:C6	11:AB:4648:DT:H72	2.54	0.42
11:AB:4824:DA:H2'	11:AB:4825:DT:H72	2.00	0.42
11:AB:4985:DT:H1'	11:AB:4986:DC:H5'	2.02	0.42
11:AB:4993:DG:H1'	11:AB:4994:DT:H5'	2.00	0.42
11:AB:5068:DG:C8	11:AB:5069:DT:H72	2.55	0.42
11:AB:5119:DG:H2''	11:AB:5120:DC:OP2	2.19	0.42
11:AB:5180:DT:H2'	11:AB:5181:DT:H72	2.02	0.42
11:AB:5216:DC:C6	11:AB:5217:DT:H72	2.54	0.42
11:AB:5280:DT:H2'	11:AB:5281:DT:H72	2.02	0.42
11:AB:5365:DG:H2''	11:AB:5366:DC:OP2	2.19	0.42
11:AB:5522:DC:C6	11:AB:5523:DT:H72	2.54	0.42
11:AB:5675:DA:H2'	11:AB:5676:DT:H72	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5757:DC:C6	11:AB:5758:DT:H72	2.54	0.42
11:AB:5800:DC:C6	11:AB:5801:DT:H72	2.54	0.42
11:AB:6185:DT:H1'	11:AB:6186:DC:H5'	2.02	0.42
11:AB:6221:DT:C2'	11:AB:6222:DT:H72	2.48	0.42
11:AB:6408:DC:C6	11:AB:6409:DT:H72	2.54	0.42
11:AB:6409:DT:H1'	11:AB:6410:DC:H5'	2.02	0.42
11:AB:6414:DC:C6	11:AB:6415:DT:H72	2.54	0.42
11:AB:6497:DA:H2'	11:AB:6498:DT:H72	2.00	0.42
11:AB:6568:DG:C8	11:AB:6569:DT:H72	2.55	0.42
11:AB:6766:DT:H2'	11:AB:6767:DT:H72	2.02	0.42
11:AB:6870:DG:C8	11:AB:6871:DT:H72	2.55	0.42
11:AB:6885:DT:H1'	11:AB:6886:DC:H5'	2.02	0.42
11:AB:7045:DC:C6	11:AB:7046:DT:H72	2.54	0.42
11:AB:7116:DT:H1'	11:AB:7117:DC:H5'	2.02	0.42
14:B1:21:DG:H2''	14:B1:22:DC:OP2	2.19	0.42
15:B2:14:DC:OP1	30:C6:7:DG:H2''	2.19	0.42
15:B2:17:DA:H2'	15:B2:18:DT:H72	2.00	0.42
26:C1:22:DA:H2'	26:C1:23:DT:H72	2.00	0.42
29:C5:40:DG:C8	29:C5:41:DT:H72	2.55	0.42
33:C9:18:DT:H1'	33:C9:19:DC:H5'	2.02	0.42
37:D1:1:DC:C6	37:D1:2:DT:H72	2.54	0.42
44:D9:27:DG:H2''	44:D9:28:DC:OP2	2.19	0.42
47:DD:6:DG:C8	47:DD:7:DT:H72	2.55	0.42
51:E5:12:DC:C6	51:E5:13:DT:H72	2.54	0.42
54:E8:8:DA:H2'	54:E8:9:DT:H72	2.00	0.42
55:E9:45:DG:H1'	70:G1:1:DT:H5'	2.00	0.42
56:EA:6:DT:C2'	56:EA:7:DT:H72	2.48	0.42
59:F1:20:DT:H2'	102:ID:1:DT:H72	2.02	0.42
69:FD:29:DC:H5'	161:O8:25:DT:H1'	2.02	0.42
72:G3:1:DT:H1'	72:G3:2:DC:H5'	2.02	0.42
74:G6:22:DC:C6	74:G6:23:DT:H72	2.54	0.42
74:G6:36:DC:C6	74:G6:37:DT:H72	2.54	0.42
82:H2:36:DG:H1'	82:H2:37:DT:H5'	2.00	0.42
83:H3:14:DT:H1'	83:H3:15:DC:H5'	2.02	0.42
88:H9:16:DG:H2''	88:H9:17:DC:OP2	2.19	0.42
95:I5:42:DG:H2''	187:R5:1:DC:OP1	2.19	0.42
101:IC:5:DG:H2''	101:IC:6:DC:OP2	2.19	0.42
102:ID:9:DT:H2'	102:ID:10:DT:H72	2.02	0.42
104:J2:18:DC:C6	104:J2:19:DT:H72	2.54	0.42
104:J2:27:DC:C6	104:J2:28:DT:H72	2.54	0.42
104:J2:30:DC:C6	104:J2:31:DT:H72	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
108:J7:55:DG:H2''	108:J7:56:DC:OP2	2.19	0.42
122:KA:48:DA:H2'	122:KA:49:DT:H72	2.00	0.42
132:L9:17:DA:H2'	132:L9:18:DT:H72	2.00	0.42
139:M6:4:DG:H2''	139:M6:5:DC:OP2	2.19	0.42
139:M6:21:DG:H2''	139:M6:22:DC:OP2	2.19	0.42
141:M8:11:DT:H2'	141:M8:12:DT:H72	2.02	0.42
141:M8:29:DT:H2'	141:M8:30:DT:H72	2.02	0.42
143:MA:32:DC:C6	143:MA:33:DT:H72	2.54	0.42
143:MA:34:DG:C8	190:R9:19:DT:H72	2.55	0.42
150:N7:8:DT:H1'	150:N7:9:DC:H5'	2.02	0.42
152:N9:45:DG:C8	152:N9:46:DT:H72	2.55	0.42
154:NC:30:DG:H2''	154:NC:31:DC:OP2	2.19	0.42
154:NC:35:DG:H1'	154:NC:36:DT:H5'	2.00	0.42
156:O2:22:DT:H1'	156:O2:23:DC:H5'	2.02	0.42
158:O5:47:DT:H1'	158:O5:48:DC:H5'	2.02	0.42
165:OD:55:DG:H2''	165:OD:56:DC:OP2	2.19	0.42
170:P7:6:DT:H1'	170:P7:7:DC:H5'	2.02	0.42
184:QD:28:DA:H2'	184:QD:29:DT:H72	2.00	0.42
187:R5:14:DG:C8	223:V5:35:DT:H72	2.55	0.42
189:R8:25:DT:C2'	189:R8:26:DT:H72	2.48	0.42
194:S2:27:DT:H2'	194:S2:28:DT:H72	2.02	0.42
198:S8:8:DG:H1'	198:S8:9:DT:H5'	2.00	0.42
202:SD:27:DA:H2'	202:SD:28:DT:H72	2.00	0.42
204:T3:11:DT:H2'	204:T3:12:DT:H72	2.02	0.42
204:T3:44:DG:H1'	204:T3:45:DT:H5'	2.00	0.42
206:T7:9:DG:H2''	206:T7:10:DC:OP2	2.19	0.42
206:T7:23:DG:H2''	206:T7:24:DC:OP2	2.19	0.42
214:U5:13:DT:H2'	214:U5:14:DT:H72	2.02	0.42
214:U5:18:DC:C6	214:U5:19:DT:H72	2.54	0.42
214:U5:38:DG:H1'	214:U5:39:DT:H5'	2.00	0.42
215:U7:21:DG:C8	215:U7:22:DT:H72	2.55	0.42
219:UC:10:DT:C2'	219:UC:11:DT:H72	2.48	0.42
220:UD:22:DC:C6	220:UD:23:DT:H72	2.54	0.42
232:W7:19:DG:H2''	232:W7:20:DC:OP2	2.19	0.42
238:X9:26:DG:H1'	238:X9:27:DT:H5'	2.00	0.42
5:A5:39:DG:H1'	5:A5:40:DT:H5'	2.00	0.42
7:A7:28:DT:H72	118:K6:13:DG:C8	2.55	0.42
9:A9:2:DT:H2'	9:A9:3:DT:H72	2.02	0.42
10:AA:27:DG:H1'	216:U8:1:DT:H5'	2.01	0.42
11:AB:74:DT:H2'	11:AB:75:DT:H72	2.02	0.42
11:AB:205:DC:C6	11:AB:206:DT:H72	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:280:DC:C6	11:AB:281:DT:H72	2.54	0.42
11:AB:286:DA:H2'	11:AB:287:DT:H72	2.00	0.42
11:AB:322:DC:C6	11:AB:323:DT:H72	2.54	0.42
11:AB:343:DC:C6	11:AB:344:DT:H72	2.54	0.42
11:AB:417:DT:H1'	11:AB:418:DC:H5'	2.02	0.42
11:AB:424:DG:C8	11:AB:425:DT:H72	2.55	0.42
11:AB:439:DG:C8	11:AB:440:DT:H72	2.55	0.42
11:AB:445:DG:C8	11:AB:446:DT:H72	2.55	0.42
11:AB:492:DA:H2'	11:AB:493:DT:H72	2.00	0.42
11:AB:709:DC:C6	11:AB:710:DT:H72	2.54	0.42
11:AB:783:DT:H2'	11:AB:784:DT:H72	2.02	0.42
11:AB:805:DG:C8	11:AB:806:DT:H72	2.55	0.42
11:AB:925:DG:C8	11:AB:926:DT:H72	2.55	0.42
11:AB:1122:DT:H1'	11:AB:1123:DC:H5'	2.02	0.42
11:AB:1146:DG:H2''	11:AB:1147:DC:OP2	2.20	0.42
11:AB:1212:DT:H2'	11:AB:1213:DT:H72	2.02	0.42
11:AB:1228:DG:C8	11:AB:1229:DT:H72	2.55	0.42
11:AB:1254:DT:H1'	11:AB:1255:DC:H5'	2.02	0.42
11:AB:1256:DG:C8	11:AB:6301:DT:H72	2.55	0.42
11:AB:1277:DC:C6	11:AB:1278:DT:H72	2.54	0.42
11:AB:1278:DT:H2'	11:AB:1279:DT:H72	2.02	0.42
11:AB:1285:DC:C6	11:AB:1286:DT:H72	2.54	0.42
11:AB:1306:DC:C6	11:AB:1307:DT:H72	2.54	0.42
11:AB:1333:DT:H1'	11:AB:1334:DC:H5'	2.01	0.42
11:AB:1355:DT:H2'	11:AB:1356:DT:H72	2.02	0.42
11:AB:1376:DG:C8	11:AB:1377:DT:H72	2.55	0.42
11:AB:1575:DT:H2'	11:AB:1576:DT:H72	2.02	0.42
11:AB:1632:DT:H2'	11:AB:1633:DT:H72	2.02	0.42
11:AB:1653:DT:H2'	11:AB:1654:DT:H72	2.02	0.42
11:AB:1671:DT:H2'	11:AB:1672:DT:H72	2.02	0.42
11:AB:1775:DT:H2'	11:AB:1776:DT:H72	2.02	0.42
11:AB:1898:DG:H2''	11:AB:1899:DC:OP2	2.19	0.42
11:AB:1912:DT:H1'	11:AB:1913:DC:H5'	2.02	0.42
11:AB:1929:DG:C8	11:AB:1930:DT:H72	2.55	0.42
11:AB:1959:DT:H1'	11:AB:1960:DC:H5'	2.02	0.42
11:AB:2047:DT:H2'	11:AB:2048:DT:H72	2.02	0.42
11:AB:2058:DT:H1'	11:AB:2059:DC:H5'	2.02	0.42
11:AB:2252:DT:H1'	11:AB:2253:DC:H5'	2.02	0.42
11:AB:2299:DT:H2'	11:AB:2300:DT:H72	2.02	0.42
11:AB:2315:DT:H2'	11:AB:2316:DT:H72	2.02	0.42
11:AB:2341:DG:C8	11:AB:2342:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2396:DT:H2'	11:AB:2397:DT:H72	2.02	0.42
11:AB:2443:DT:H72	11:AB:5366:DC:C6	2.54	0.42
11:AB:2536:DT:H2'	11:AB:2537:DT:H72	2.02	0.42
11:AB:2542:DT:H2'	11:AB:2543:DT:H72	2.02	0.42
11:AB:2559:DT:H2'	11:AB:2560:DT:H72	2.02	0.42
11:AB:2647:DC:C6	11:AB:2648:DT:H72	2.54	0.42
11:AB:2755:DA:H2'	11:AB:2756:DT:H72	2.00	0.42
11:AB:2768:DT:H2'	11:AB:2769:DT:H72	2.02	0.42
11:AB:2769:DT:H1'	11:AB:2770:DC:H5'	2.02	0.42
11:AB:2773:DT:H2'	11:AB:2774:DT:H72	2.02	0.42
11:AB:2836:DT:H1'	11:AB:2837:DC:H5'	2.02	0.42
11:AB:2933:DT:H2'	11:AB:2934:DT:H72	2.02	0.42
11:AB:3111:DA:H2'	11:AB:3112:DT:H72	2.00	0.42
11:AB:3139:DT:H1'	11:AB:3140:DC:H5'	2.02	0.42
11:AB:3157:DT:H2'	11:AB:3158:DT:H72	2.01	0.42
11:AB:3208:DG:H1'	11:AB:3209:DT:H5'	2.00	0.42
11:AB:3253:DT:H1'	11:AB:3254:DC:H5'	2.01	0.42
11:AB:3366:DT:H2'	11:AB:3367:DT:H72	2.02	0.42
11:AB:3404:DT:H2'	11:AB:3405:DT:H72	2.02	0.42
11:AB:3478:DG:C8	11:AB:3479:DT:H72	2.55	0.42
11:AB:3525:DG:C8	11:AB:3526:DT:H72	2.55	0.42
11:AB:3661:DG:C8	11:AB:3662:DT:H72	2.55	0.42
11:AB:3662:DT:H1'	11:AB:3663:DC:H5'	2.02	0.42
11:AB:3668:DT:H2'	11:AB:3669:DT:H72	2.02	0.42
11:AB:3714:DA:H2'	11:AB:3715:DT:H72	2.00	0.42
11:AB:3885:DT:H2'	11:AB:3886:DT:H72	2.02	0.42
11:AB:3938:DC:C6	11:AB:3939:DT:H72	2.54	0.42
11:AB:4097:DG:C8	11:AB:4098:DT:H72	2.55	0.42
11:AB:4150:DT:H2'	11:AB:4151:DT:H72	2.02	0.42
11:AB:4181:DT:C2'	11:AB:4182:DT:H72	2.48	0.42
11:AB:4316:DT:H2'	11:AB:4317:DT:H72	2.02	0.42
11:AB:4366:DT:H2'	11:AB:4367:DT:H72	2.02	0.42
11:AB:4385:DT:H1'	11:AB:4386:DC:H5'	2.02	0.42
11:AB:4490:DC:C6	11:AB:4491:DT:H72	2.54	0.42
11:AB:4545:DT:H1'	11:AB:4546:DC:H5'	2.02	0.42
11:AB:4583:DG:H2''	11:AB:4584:DC:OP2	2.19	0.42
11:AB:4661:DG:H1'	11:AB:4662:DT:H5'	2.00	0.42
11:AB:4695:DT:H1'	11:AB:4696:DC:H5'	2.02	0.42
11:AB:4740:DG:H1'	11:AB:4741:DT:H5'	2.00	0.42
11:AB:4829:DC:C6	11:AB:4830:DT:H72	2.54	0.42
11:AB:4884:DG:C8	11:AB:4885:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4971:DG:H2''	11:AB:4972:DC:OP2	2.19	0.42
11:AB:5074:DT:H1'	11:AB:5075:DC:H5'	2.02	0.42
11:AB:5125:DT:H2'	11:AB:5126:DT:H72	2.02	0.42
11:AB:5378:DT:H1'	11:AB:5379:DC:H5'	2.02	0.42
11:AB:5423:DT:H2'	11:AB:5424:DT:H72	2.02	0.42
11:AB:5430:DG:H2''	11:AB:5431:DC:OP2	2.19	0.42
11:AB:5503:DG:H1'	11:AB:5504:DT:H5'	2.00	0.42
11:AB:5542:DT:H2'	11:AB:5543:DT:H72	2.02	0.42
11:AB:5588:DT:H1'	11:AB:5589:DC:H5'	2.02	0.42
11:AB:5632:DT:H1'	11:AB:5633:DC:H5'	2.02	0.42
11:AB:5654:DA:H2'	11:AB:5655:DT:H72	2.00	0.42
11:AB:5679:DT:C2'	11:AB:5680:DT:H72	2.48	0.42
11:AB:5720:DG:C8	11:AB:5721:DT:H72	2.55	0.42
11:AB:5744:DA:H2'	11:AB:5745:DT:H72	2.00	0.42
11:AB:5764:DG:H2''	11:AB:5765:DC:OP2	2.19	0.42
11:AB:5788:DT:H1'	11:AB:5789:DC:H5'	2.02	0.42
11:AB:5894:DT:C2'	11:AB:5895:DT:H72	2.48	0.42
11:AB:5924:DG:C8	11:AB:5925:DT:H72	2.55	0.42
11:AB:5943:DT:H2'	11:AB:5944:DT:H72	2.02	0.42
11:AB:5959:DT:H1'	11:AB:5960:DC:H5'	2.02	0.42
11:AB:6019:DG:C8	11:AB:6020:DT:H72	2.55	0.42
11:AB:6038:DT:H2'	11:AB:6039:DT:H72	2.02	0.42
11:AB:6042:DG:H2''	11:AB:6043:DC:OP2	2.19	0.42
11:AB:6050:DG:H2''	11:AB:6051:DC:OP2	2.19	0.42
11:AB:6064:DG:H2''	11:AB:6065:DC:OP2	2.20	0.42
11:AB:6292:DT:H2'	11:AB:6293:DT:H72	2.02	0.42
11:AB:6366:DT:H2'	11:AB:6367:DT:H72	2.02	0.42
11:AB:6368:DT:H2'	11:AB:6369:DT:H72	2.02	0.42
11:AB:6449:DG:H1'	11:AB:6450:DT:H5'	2.00	0.42
11:AB:6499:DG:C8	11:AB:6500:DT:H72	2.55	0.42
11:AB:6618:DC:C6	11:AB:6619:DT:H72	2.54	0.42
11:AB:6700:DT:H2'	11:AB:6701:DT:H72	2.02	0.42
11:AB:6755:DG:H2''	11:AB:6756:DC:OP2	2.19	0.42
11:AB:6825:DG:H2''	11:AB:6826:DC:OP2	2.19	0.42
11:AB:6851:DT:H1'	11:AB:6852:DC:H5'	2.01	0.42
11:AB:6863:DT:H2'	11:AB:6864:DT:H72	2.01	0.42
11:AB:7012:DG:H2''	11:AB:7013:DC:OP2	2.19	0.42
11:AB:7204:DT:H1'	11:AB:7205:DC:H5'	2.02	0.42
11:AB:7226:DT:H1'	11:AB:7227:DC:H5'	2.02	0.42
14:B1:40:DT:H1'	14:B1:41:DC:H5'	2.01	0.42
23:BA:14:DT:H1'	23:BA:15:DC:H5'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BA:34:DG:C8	23:BA:35:DT:H72	2.55	0.42
24:BC:34:DG:C8	24:BC:35:DT:H72	2.55	0.42
26:C1:24:DT:H1'	26:C1:25:DC:H5'	2.02	0.42
27:C2:6:DG:H2''	27:C2:7:DC:OP2	2.19	0.42
27:C2:12:DC:C6	27:C2:13:DT:H72	2.54	0.42
30:C6:19:DC:C6	30:C6:20:DT:H72	2.54	0.42
31:C7:5:DT:H2'	49:E2:31:DT:H72	2.02	0.42
31:C7:17:DC:C6	31:C7:18:DT:H72	2.54	0.42
31:C7:28:DT:H2'	31:C7:29:DT:H72	2.02	0.42
32:C8:49:DT:H2'	32:C8:50:DT:H72	2.02	0.42
33:C9:20:DG:H1'	33:C9:21:DT:H5'	2.00	0.42
37:D1:27:DT:H1'	37:D1:28:DC:H5'	2.02	0.42
44:D9:7:DG:C8	44:D9:8:DT:H72	2.55	0.42
51:E5:8:DG:H1'	51:E5:9:DT:H5'	2.00	0.42
53:E7:1:DG:C8	53:E7:2:DT:H72	2.55	0.42
55:E9:43:DG:C8	55:E9:44:DT:H72	2.55	0.42
58:ED:37:DG:C8	58:ED:38:DT:H72	2.55	0.42
69:FD:31:DG:H2''	69:FD:32:DC:OP2	2.19	0.42
82:H2:32:DC:C6	82:H2:33:DT:H72	2.54	0.42
85:H6:21:DG:H2''	85:H6:22:DC:OP2	2.19	0.42
97:I7:26:DG:C8	97:I7:27:DT:H72	2.55	0.42
98:I8:15:DA:H2'	98:I8:16:DT:H72	2.00	0.42
101:IC:25:DG:H1'	101:IC:26:DT:H5'	2.00	0.42
102:ID:14:DT:H2'	102:ID:15:DT:H72	2.02	0.42
103:J1:11:DT:H2'	103:J1:12:DT:H72	2.02	0.42
121:K9:17:DT:H2'	121:K9:18:DT:H72	2.01	0.42
122:KA:8:DC:OP1	209:TA:18:DG:H2''	2.19	0.42
123:KC:27:DT:H2'	123:KC:28:DT:H72	2.02	0.42
126:L2:30:DA:H2'	126:L2:31:DT:H72	2.00	0.42
133:LA:11:DC:OP1	182:QA:14:DG:H2''	2.19	0.42
133:LA:19:DG:C8	133:LA:20:DT:H72	2.55	0.42
136:M2:2:DT:H2'	136:M2:3:DT:H72	2.02	0.42
136:M2:11:DT:H2'	136:M2:12:DT:H72	2.02	0.42
138:M5:11:DT:H2'	138:M5:12:DT:H72	2.02	0.42
138:M5:23:DG:C8	138:M5:24:DT:H72	2.55	0.42
139:M6:5:DC:C6	139:M6:6:DT:H72	2.54	0.42
145:MD:16:DT:H1'	172:P9:17:DC:H5'	2.02	0.42
152:N9:3:DG:C8	190:R9:5:DT:H72	2.55	0.42
152:N9:9:DT:H2'	152:N9:10:DT:H72	2.02	0.42
152:N9:12:DG:C8	152:N9:13:DT:H72	2.55	0.42
156:O2:11:DG:H2''	156:O2:12:DC:OP2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
157:O3:19:DG:C8	157:O3:20:DT:H72	2.55	0.42
158:O5:27:DG:H2''	198:S8:18:DC:OP1	2.19	0.42
160:O7:23:DT:H2'	160:O7:24:DT:H72	2.02	0.42
165:OD:43:DT:H1'	165:OD:44:DC:H5'	2.02	0.42
166:P2:34:DT:C2'	166:P2:35:DT:H72	2.48	0.42
168:P5:10:DG:H1'	168:P5:11:DT:H5'	2.00	0.42
171:P8:10:DT:H1'	171:P8:11:DC:H5'	2.02	0.42
173:PA:23:DT:H2'	173:PA:24:DT:H72	2.02	0.42
177:Q3:5:DG:C8	177:Q3:6:DT:H72	2.55	0.42
186:R3:6:DG:H2''	186:R3:7:DC:OP2	2.19	0.42
187:R5:23:DG:H1'	187:R5:24:DT:H5'	2.00	0.42
188:R7:25:DG:C8	188:R7:26:DT:H72	2.55	0.42
189:R8:13:DT:H2'	189:R8:14:DT:H72	2.02	0.42
194:S2:8:DT:H2'	194:S2:9:DT:H72	2.02	0.42
194:S2:15:DG:H2''	194:S2:16:DC:OP2	2.20	0.42
198:S8:37:DC:C6	198:S8:38:DT:H72	2.54	0.42
200:SA:6:DG:H2''	200:SA:7:DC:OP2	2.20	0.42
204:T3:32:DT:H2'	204:T3:33:DT:H72	2.01	0.42
208:T9:21:DC:C6	208:T9:22:DT:H72	2.54	0.42
215:U7:19:DC:C6	215:U7:20:DT:H72	2.54	0.42
217:U9:15:DT:H1'	217:U9:16:DC:H5'	2.02	0.42
218:UA:16:DG:C8	218:UA:17:DT:H72	2.55	0.42
219:UC:8:DG:H1'	219:UC:9:DT:H5'	2.00	0.42
219:UC:15:DT:H2'	219:UC:16:DT:H72	2.02	0.42
221:V2:18:DT:H1'	221:V2:19:DC:H5'	2.02	0.42
232:W7:25:DC:C6	232:W7:26:DT:H72	2.54	0.42
236:X5:7:DC:C6	236:X5:8:DT:H72	2.54	0.42
2:A2:16:DT:H2'	2:A2:17:DT:H72	2.02	0.42
2:A2:26:DG:H1'	2:A2:27:DT:H5'	2.00	0.42
4:A4:28:DT:H2'	4:A4:29:DT:H72	2.02	0.42
5:A5:41:DG:C8	5:A5:42:DT:H72	2.55	0.42
6:A6:24:DT:H2'	6:A6:25:DT:H72	2.02	0.42
11:AB:86:DG:H2''	11:AB:87:DC:OP2	2.20	0.42
11:AB:134:DT:H2'	11:AB:135:DT:H72	2.02	0.42
11:AB:213:DG:H1'	11:AB:214:DT:H5'	2.00	0.42
11:AB:220:DG:C8	11:AB:221:DT:H72	2.55	0.42
11:AB:281:DT:H2'	11:AB:282:DT:H72	2.02	0.42
11:AB:287:DT:H1'	11:AB:288:DC:H5'	2.02	0.42
11:AB:333:DG:H1'	11:AB:334:DT:H5'	2.00	0.42
11:AB:340:DG:C8	11:AB:341:DT:H72	2.55	0.42
11:AB:412:DG:C8	11:AB:413:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:710:DT:H1'	11:AB:711:DC:H5'	2.02	0.42
11:AB:720:DT:H1'	11:AB:721:DC:H5'	2.02	0.42
11:AB:794:DT:H2'	11:AB:795:DT:H72	2.02	0.42
11:AB:846:DG:C8	11:AB:847:DT:H72	2.55	0.42
11:AB:868:DG:H1'	11:AB:869:DT:H5'	2.00	0.42
11:AB:910:DG:C8	11:AB:911:DT:H72	2.55	0.42
11:AB:917:DT:H2'	11:AB:918:DT:H72	2.02	0.42
11:AB:946:DG:C8	11:AB:947:DT:H72	2.55	0.42
11:AB:970:DG:C8	11:AB:971:DT:H72	2.55	0.42
11:AB:981:DT:H72	11:AB:6714:DG:C8	2.55	0.42
11:AB:1071:DT:H1'	11:AB:1072:DC:H5'	2.02	0.42
11:AB:1090:DG:C8	11:AB:1091:DT:H72	2.55	0.42
11:AB:1101:DG:C8	11:AB:6398:DT:H72	2.55	0.42
11:AB:1108:DT:H1'	11:AB:1109:DC:H5'	2.02	0.42
11:AB:1276:DT:H1'	11:AB:1277:DC:H5'	2.01	0.42
11:AB:1339:DG:C8	11:AB:1340:DT:H72	2.55	0.42
11:AB:1351:DT:H2'	11:AB:1352:DT:H72	2.02	0.42
11:AB:1443:DG:H1'	11:AB:1444:DT:H5'	2.00	0.42
11:AB:1447:DT:H1'	11:AB:1448:DC:H5'	2.02	0.42
11:AB:1512:DT:H2'	11:AB:1513:DT:H72	2.01	0.42
11:AB:1587:DT:H2'	11:AB:1588:DT:H72	2.02	0.42
11:AB:1600:DC:C6	11:AB:1601:DT:H72	2.54	0.42
11:AB:1672:DT:H1'	11:AB:1673:DC:H5'	2.02	0.42
11:AB:1825:DG:C8	11:AB:1826:DT:H72	2.55	0.42
11:AB:2016:DT:H2'	11:AB:2017:DT:H72	2.02	0.42
11:AB:2134:DT:H2'	11:AB:2135:DT:H72	2.02	0.42
11:AB:2193:DG:C8	11:AB:2194:DT:H72	2.55	0.42
11:AB:2203:DG:C8	11:AB:2204:DT:H72	2.55	0.42
11:AB:2207:DT:H1'	11:AB:2208:DC:H5'	2.02	0.42
11:AB:2213:DG:C8	11:AB:5622:DT:H72	2.55	0.42
11:AB:2393:DT:H2'	11:AB:2394:DT:H72	2.02	0.42
11:AB:2547:DT:H2'	11:AB:2548:DT:H72	2.02	0.42
11:AB:2634:DT:H2'	11:AB:2635:DT:H72	2.02	0.42
11:AB:2663:DT:H1'	11:AB:2664:DC:H5'	2.02	0.42
11:AB:2720:DT:H2'	11:AB:2721:DT:H72	2.02	0.42
11:AB:2829:DG:C8	11:AB:2830:DT:H72	2.55	0.42
11:AB:2926:DG:H1'	11:AB:2927:DT:H5'	2.00	0.42
11:AB:3095:DT:H2'	11:AB:3096:DT:H72	2.02	0.42
11:AB:3233:DT:H2'	11:AB:3234:DT:H72	2.02	0.42
11:AB:3243:DG:C8	11:AB:3244:DT:H72	2.55	0.42
11:AB:3362:DT:H2'	11:AB:3363:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3466:DG:C8	11:AB:3467:DT:H72	2.55	0.42
11:AB:3473:DG:H2'	11:AB:3474:DC:OP2	2.20	0.42
11:AB:3601:DT:H1'	11:AB:3602:DC:H5'	2.01	0.42
11:AB:3689:DG:C8	11:AB:3690:DT:H72	2.55	0.42
11:AB:3791:DT:H2'	11:AB:3792:DT:H72	2.02	0.42
11:AB:3819:DT:H2'	11:AB:3820:DT:H72	2.02	0.42
11:AB:3949:DT:H1'	11:AB:3950:DC:H5'	2.02	0.42
11:AB:3974:DT:H1'	11:AB:3975:DC:H5'	2.02	0.42
11:AB:3978:DT:H2'	11:AB:3979:DT:H72	2.02	0.42
11:AB:4092:DG:C8	11:AB:4093:DT:H72	2.55	0.42
11:AB:4169:DT:H2'	11:AB:4170:DT:H72	2.02	0.42
11:AB:4239:DG:C8	11:AB:4240:DT:H72	2.55	0.42
11:AB:4491:DT:H2'	11:AB:4492:DT:H72	2.02	0.42
11:AB:4542:DG:H1'	11:AB:4543:DT:H5'	2.00	0.42
11:AB:4551:DG:C8	11:AB:4552:DT:H72	2.55	0.42
11:AB:4702:DG:H2'	11:AB:4703:DC:OP2	2.19	0.42
11:AB:4904:DG:H1'	11:AB:4905:DT:H5'	2.00	0.42
11:AB:4923:DT:H2'	11:AB:4924:DT:H72	2.02	0.42
11:AB:5030:DT:H2'	11:AB:5031:DT:H72	2.02	0.42
11:AB:5209:DT:H2'	11:AB:5210:DT:H72	2.02	0.42
11:AB:5286:DT:H2'	11:AB:5287:DT:H72	2.02	0.42
11:AB:5306:DT:H2'	11:AB:5307:DT:H72	2.02	0.42
11:AB:5328:DT:H2'	11:AB:5329:DT:H72	2.02	0.42
11:AB:5483:DG:H2'	11:AB:5484:DC:OP2	2.19	0.42
11:AB:5503:DG:C8	11:AB:5504:DT:H72	2.55	0.42
11:AB:5587:DG:C8	11:AB:5588:DT:H72	2.55	0.42
11:AB:5607:DT:H2'	11:AB:5608:DT:H72	2.02	0.42
11:AB:5670:DT:H2'	11:AB:5671:DT:H72	2.02	0.42
11:AB:5684:DT:H2'	11:AB:5685:DT:H72	2.02	0.42
11:AB:5774:DT:H2'	11:AB:5775:DT:H72	2.02	0.42
11:AB:5843:DT:H2'	11:AB:5844:DT:H72	2.02	0.42
11:AB:5897:DT:H2'	11:AB:5898:DT:H72	2.02	0.42
11:AB:5952:DT:H2'	11:AB:5953:DT:H72	2.02	0.42
11:AB:6137:DG:C8	11:AB:6138:DT:H72	2.55	0.42
11:AB:6142:DG:H1'	11:AB:6143:DT:H5'	2.00	0.42
11:AB:6203:DT:H2'	11:AB:6204:DT:H72	2.02	0.42
11:AB:6205:DT:H2'	11:AB:6206:DT:H72	2.02	0.42
11:AB:6260:DT:H2'	11:AB:6261:DT:H72	2.02	0.42
11:AB:6298:DG:H2'	11:AB:6299:DC:OP2	2.19	0.42
11:AB:6334:DT:H1'	11:AB:6335:DC:H5'	2.01	0.42
11:AB:6358:DT:H1'	11:AB:6359:DC:H5'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6406:DG:H2''	11:AB:6407:DC:OP2	2.20	0.42
11:AB:6494:DG:C8	11:AB:6495:DT:H72	2.55	0.42
11:AB:6573:DG:C8	11:AB:6574:DT:H72	2.55	0.42
11:AB:6577:DG:C8	11:AB:6578:DT:H72	2.55	0.42
11:AB:6658:DT:H1'	11:AB:6659:DC:H5'	2.02	0.42
11:AB:6679:DT:H2'	11:AB:6680:DT:H72	2.02	0.42
11:AB:6709:DG:C8	11:AB:6710:DT:H72	2.55	0.42
11:AB:6757:DT:H2'	11:AB:6758:DT:H72	2.02	0.42
11:AB:6761:DT:H2'	11:AB:6762:DT:H72	2.02	0.42
11:AB:6795:DG:C8	11:AB:6796:DT:H72	2.55	0.42
11:AB:6806:DT:H1'	11:AB:6807:DC:H5'	2.02	0.42
11:AB:6839:DT:H1'	11:AB:6840:DC:H5'	2.02	0.42
11:AB:6883:DG:C8	11:AB:6884:DT:H72	2.55	0.42
11:AB:6990:DT:H2'	11:AB:6991:DT:H72	2.02	0.42
11:AB:7061:DT:H2'	11:AB:7062:DT:H72	2.02	0.42
11:AB:7078:DG:C8	11:AB:7079:DT:H72	2.55	0.42
11:AB:7158:DT:H2'	11:AB:7159:DT:H72	2.02	0.42
13:AD:11:DG:C8	13:AD:12:DT:H72	2.55	0.42
18:B5:27:DT:H2'	18:B5:28:DT:H72	2.02	0.42
19:B6:8:DT:H72	125:L1:7:DG:C8	2.55	0.42
19:B6:9:DG:C8	19:B6:10:DT:H72	2.55	0.42
19:B6:23:DT:H2'	19:B6:24:DT:H72	2.02	0.42
20:B7:5:DT:H2'	20:B7:6:DT:H72	2.02	0.42
21:B8:27:DT:H2'	149:N6:1:DT:H72	2.01	0.42
24:BC:27:DG:H2''	35:CC:17:DC:OP1	2.19	0.42
29:C5:16:DG:H1'	29:C5:17:DT:H5'	2.00	0.42
31:C7:4:DT:H2'	31:C7:5:DT:H72	2.02	0.42
32:C8:11:DT:H72	230:W3:42:DG:C8	2.55	0.42
32:C8:28:DG:H2''	32:C8:29:DC:OP2	2.20	0.42
32:C8:45:DT:H1'	114:K1:8:DC:H5'	2.02	0.42
36:CD:19:DG:H1'	36:CD:20:DT:H5'	2.00	0.42
38:D2:14:DG:H2''	38:D2:15:DC:OP2	2.19	0.42
41:D6:37:DT:H2'	41:D6:38:DT:H72	2.02	0.42
41:D6:39:DT:H2'	41:D6:40:DT:H72	2.02	0.42
43:D8:11:DT:H2'	43:D8:12:DT:H72	2.02	0.42
49:E2:22:DT:H2'	49:E2:23:DT:H72	2.02	0.42
54:E8:26:DG:H2''	54:E8:27:DC:OP2	2.19	0.42
57:EC:6:DT:H2'	57:EC:7:DT:H72	2.02	0.42
62:F5:30:DT:H2'	62:F5:31:DT:H72	2.02	0.42
62:F5:44:DT:H2'	62:F5:45:DT:H72	2.02	0.42
64:F7:20:DG:C8	64:F7:21:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:F7:27:DT:H2'	64:F7:28:DT:H72	2.02	0.42
66:F9:17:DT:H2'	66:F9:18:DT:H72	2.02	0.42
72:G3:20:DG:C8	72:G3:21:DT:H72	2.55	0.42
74:G6:15:DT:H2'	74:G6:16:DT:H72	2.02	0.42
74:G6:23:DT:H1'	160:O7:20:DC:H5'	2.02	0.42
79:GC:19:DT:H2'	79:GC:20:DT:H72	2.02	0.42
82:H2:11:DT:H1'	82:H2:12:DC:H5'	2.02	0.42
82:H2:45:DT:H2'	82:H2:46:DT:H72	2.02	0.42
83:H3:27:DT:H1'	83:H3:28:DC:H5'	2.02	0.42
84:H5:27:DT:H72	214:U5:7:DG:C8	2.55	0.42
92:I1:19:DA:H2'	92:I1:20:DT:H72	2.00	0.42
93:I2:4:DT:H1'	93:I2:5:DC:H5'	2.01	0.42
93:I2:8:DT:H1'	93:I2:9:DC:H5'	2.02	0.42
96:I6:1:DT:H2'	96:I6:2:DT:H72	2.02	0.42
103:J1:27:DT:H2'	103:J1:28:DT:H72	2.02	0.42
104:J2:3:DG:H2''	104:J2:4:DC:OP2	2.19	0.42
105:J3:26:DT:H2'	105:J3:27:DT:H72	2.02	0.42
108:J7:12:DG:C8	108:J7:13:DT:H72	2.55	0.42
108:J7:43:DT:H72	157:O3:10:DG:C8	2.55	0.42
109:J8:23:DT:H2'	109:J8:24:DT:H72	2.02	0.42
111:JA:1:DT:H72	209:TA:25:DG:C8	2.55	0.42
113:JD:15:DT:H2'	113:JD:16:DT:H72	2.02	0.42
115:K2:13:DT:H2'	115:K2:14:DT:H72	2.02	0.42
117:K5:15:DT:H2'	117:K5:16:DT:H72	2.02	0.42
117:K5:45:DT:H1'	117:K5:46:DC:H5'	2.02	0.42
122:KA:37:DT:H2'	122:KA:38:DT:H72	2.02	0.42
131:L8:18:DC:OP1	146:N2:14:DG:H2''	2.20	0.42
138:M5:29:DT:H1'	138:M5:30:DC:H5'	2.02	0.42
145:MD:15:DG:C8	145:MD:16:DT:H72	2.55	0.42
148:N5:7:DG:C8	148:N5:8:DT:H72	2.55	0.42
149:N6:36:DG:C8	149:N6:37:DT:H72	2.55	0.42
152:N9:5:DT:H2'	152:N9:6:DT:H72	2.02	0.42
155:ND:11:DT:H2'	155:ND:12:DT:H72	2.02	0.42
156:O2:1:DT:H1'	156:O2:2:DC:H5'	2.02	0.42
159:O6:15:DT:H1'	159:O6:16:DC:H5'	2.02	0.42
161:O8:48:DT:H2'	161:O8:49:DT:H72	2.02	0.42
163:OA:12:DG:H1'	163:OA:13:DT:H5'	2.00	0.42
168:P5:15:DG:C8	168:P5:16:DT:H72	2.55	0.42
171:P8:18:DT:H72	185:R2:14:DT:H2'	2.02	0.42
171:P8:23:DT:H2'	171:P8:24:DT:H72	2.02	0.42
172:P9:11:DT:H2'	172:P9:12:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
178:Q5:20:DT:H2'	178:Q5:21:DT:H72	2.02	0.42
178:Q5:32:DT:H2'	178:Q5:33:DT:H72	2.02	0.42
181:Q9:10:DT:H2'	181:Q9:11:DT:H72	2.02	0.42
181:Q9:34:DT:H2'	181:Q9:35:DT:H72	2.02	0.42
182:QA:9:DG:H1'	182:QA:10:DT:H5'	2.00	0.42
182:QA:9:DG:C8	182:QA:10:DT:H72	2.55	0.42
189:R8:28:DG:H2''	189:R8:29:DC:OP2	2.19	0.42
192:RC:28:DG:C8	192:RC:29:DT:H72	2.55	0.42
193:RD:17:DT:H2'	193:RD:18:DT:H72	2.02	0.42
198:S8:8:DG:C8	198:S8:9:DT:H72	2.55	0.42
198:S8:10:DT:H2'	198:S8:11:DT:H72	2.01	0.42
203:T2:18:DT:H2'	203:T2:19:DT:H72	2.02	0.42
204:T3:33:DT:H2'	204:T3:34:DT:H72	2.02	0.42
208:T9:20:DT:H1'	208:T9:21:DC:H5'	2.02	0.42
211:TD:10:DG:H2''	211:TD:11:DC:OP2	2.19	0.42
214:U5:30:DG:C8	214:U5:31:DT:H72	2.55	0.42
223:V5:33:DT:H2'	223:V5:34:DT:H72	2.02	0.42
224:V7:18:DT:H2'	224:V7:19:DT:H72	2.02	0.42
232:W7:26:DT:H2'	232:W7:27:DT:H72	2.02	0.42
235:WD:19:DT:H2'	235:WD:20:DT:H72	2.02	0.42
236:X5:15:DT:H2'	236:X5:16:DT:H72	2.02	0.42
1:A1:4:DG:C8	1:A1:5:DT:H72	2.55	0.42
1:A1:18:DT:H2'	1:A1:19:DT:H72	2.02	0.42
5:A5:19:DG:H1'	5:A5:20:DT:H5'	2.00	0.42
8:A8:7:DG:C8	8:A8:8:DT:H72	2.55	0.42
9:A9:1:DT:H2'	9:A9:2:DT:H72	2.02	0.42
9:A9:4:DT:H2'	9:A9:5:DT:H72	2.02	0.42
11:AB:10:DT:H2'	11:AB:11:DT:H72	2.02	0.42
11:AB:51:DT:H1'	11:AB:52:DC:H5'	2.02	0.42
11:AB:130:DT:H2'	11:AB:131:DT:H72	2.02	0.42
11:AB:183:DG:C8	11:AB:184:DT:H72	2.55	0.42
11:AB:266:DG:C8	11:AB:7179:DT:H72	2.55	0.42
11:AB:290:DT:H2'	11:AB:291:DT:H72	2.02	0.42
11:AB:330:DG:C8	11:AB:331:DT:H72	2.55	0.42
11:AB:430:DG:H1'	11:AB:431:DT:H5'	2.00	0.42
11:AB:454:DG:C8	11:AB:455:DT:H72	2.55	0.42
11:AB:573:DT:H1'	11:AB:574:DC:H5'	2.02	0.42
11:AB:714:DG:C8	11:AB:715:DT:H72	2.55	0.42
11:AB:731:DG:C8	11:AB:732:DT:H72	2.55	0.42
11:AB:776:DT:H2'	11:AB:777:DT:H72	2.02	0.42
11:AB:803:DT:H2'	11:AB:804:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:875:DT:H2'	11:AB:876:DT:H72	2.02	0.42
11:AB:933:DT:H1'	11:AB:934:DC:H5'	2.02	0.42
11:AB:955:DG:C8	11:AB:956:DT:H72	2.55	0.42
11:AB:960:DT:H1'	11:AB:961:DC:H5'	2.02	0.42
11:AB:965:DT:H2'	11:AB:966:DT:H72	2.02	0.42
11:AB:1105:DG:H1'	11:AB:1106:DT:H5'	2.00	0.42
11:AB:1114:DG:C8	11:AB:1115:DT:H72	2.55	0.42
11:AB:1224:DT:H2'	11:AB:1225:DT:H72	2.02	0.42
11:AB:1258:DT:H2'	11:AB:1259:DT:H72	2.02	0.42
11:AB:1265:DT:H1'	11:AB:1266:DC:H5'	2.02	0.42
11:AB:1304:DT:H2'	11:AB:1305:DT:H72	2.02	0.42
11:AB:1315:DG:C8	11:AB:1316:DT:H72	2.55	0.42
11:AB:1342:DT:H1'	11:AB:1343:DC:H5'	2.02	0.42
11:AB:1371:DT:H2'	11:AB:1372:DT:H72	2.02	0.42
11:AB:1392:DT:H2'	11:AB:1393:DT:H72	2.02	0.42
11:AB:1425:DT:H1'	11:AB:1426:DC:H5'	2.02	0.42
11:AB:1445:DA:H2'	11:AB:1446:DT:H72	2.00	0.42
11:AB:1462:DT:H2'	11:AB:1463:DT:H72	2.02	0.42
11:AB:1489:DG:C8	11:AB:1490:DT:H72	2.55	0.42
11:AB:1584:DT:H72	11:AB:6121:DT:H2'	2.02	0.42
11:AB:1634:DG:C8	11:AB:1635:DT:H72	2.55	0.42
11:AB:1644:DT:H2'	11:AB:1645:DT:H72	2.02	0.42
11:AB:1660:DG:C8	11:AB:1661:DT:H72	2.55	0.42
11:AB:1685:DG:C8	11:AB:1686:DT:H72	2.55	0.42
11:AB:1773:DG:C8	11:AB:1774:DT:H72	2.55	0.42
11:AB:1815:DG:C8	11:AB:1816:DT:H72	2.55	0.42
11:AB:1885:DT:H2'	11:AB:1886:DT:H72	2.02	0.42
11:AB:1910:DG:C8	11:AB:1911:DT:H72	2.55	0.42
11:AB:1969:DT:H2'	11:AB:1970:DT:H72	2.02	0.42
11:AB:1991:DT:H2'	11:AB:1992:DT:H72	2.02	0.42
11:AB:2155:DT:H2'	11:AB:2156:DT:H72	2.02	0.42
11:AB:2158:DT:H2'	11:AB:2159:DT:H72	2.02	0.42
11:AB:2196:DG:C8	11:AB:2197:DT:H72	2.55	0.42
11:AB:2206:DG:H1'	11:AB:2207:DT:H5'	2.00	0.42
11:AB:2233:DT:H2'	11:AB:2234:DT:H72	2.02	0.42
11:AB:2316:DT:H1'	11:AB:2317:DC:H5'	2.02	0.42
11:AB:2474:DT:H2'	11:AB:2475:DT:H72	2.02	0.42
11:AB:2516:DG:H1'	11:AB:2517:DT:H5'	2.00	0.42
11:AB:2569:DG:C8	11:AB:2570:DT:H72	2.55	0.42
11:AB:2646:DT:H1'	11:AB:2647:DC:H5'	2.01	0.42
11:AB:2679:DG:H1'	11:AB:2680:DT:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2818:DG:C8	11:AB:2819:DT:H72	2.55	0.42
11:AB:2834:DT:H2'	11:AB:2835:DT:H72	2.02	0.42
11:AB:2951:DG:C8	11:AB:2952:DT:H72	2.55	0.42
11:AB:3310:DG:C8	11:AB:3311:DT:H72	2.55	0.42
11:AB:3389:DT:H2'	11:AB:3390:DT:H72	2.02	0.42
11:AB:3502:DG:H1'	11:AB:3503:DT:H5'	2.00	0.42
11:AB:3534:DT:H2'	11:AB:3535:DT:H72	2.02	0.42
11:AB:3535:DT:H2'	11:AB:3536:DT:H72	2.02	0.42
11:AB:3563:DT:H2'	11:AB:3564:DT:H72	2.02	0.42
11:AB:3758:DT:H2'	11:AB:3759:DT:H72	2.02	0.42
11:AB:3828:DT:H2'	11:AB:3829:DT:H72	2.02	0.42
11:AB:3842:DG:H1'	11:AB:3843:DT:H5'	2.00	0.42
11:AB:3848:DT:H2'	11:AB:3849:DT:H72	2.02	0.42
11:AB:3851:DT:H2'	11:AB:3852:DT:H72	2.02	0.42
11:AB:4030:DT:H2'	11:AB:4031:DT:H72	2.02	0.42
11:AB:4151:DT:H2'	11:AB:4320:DT:H72	2.02	0.42
11:AB:4165:DT:H2'	11:AB:4166:DT:H72	2.02	0.42
11:AB:4170:DT:H2'	11:AB:4171:DT:H72	2.02	0.42
11:AB:4190:DT:H2'	11:AB:4191:DT:H72	2.02	0.42
11:AB:4210:DT:H1'	11:AB:4211:DC:H5'	2.02	0.42
11:AB:4228:DG:C8	11:AB:4229:DT:H72	2.55	0.42
11:AB:4269:DT:H2'	11:AB:4270:DT:H72	2.02	0.42
11:AB:4301:DT:H1'	11:AB:4302:DC:H5'	2.02	0.42
11:AB:4332:DG:C8	11:AB:4333:DT:H72	2.55	0.42
11:AB:4367:DT:H1'	11:AB:4368:DC:H5'	2.02	0.42
11:AB:4535:DG:C8	11:AB:4536:DT:H72	2.55	0.42
11:AB:4605:DT:H2'	11:AB:4606:DT:H72	2.02	0.42
11:AB:4640:DT:H2'	11:AB:4641:DT:H72	2.02	0.42
11:AB:4713:DT:H2'	11:AB:4714:DT:H72	2.02	0.42
11:AB:4734:DT:H1'	11:AB:4735:DC:H5'	2.02	0.42
11:AB:4811:DT:H1'	11:AB:4812:DC:H5'	2.02	0.42
11:AB:4869:DT:H1'	11:AB:4870:DC:H5'	2.02	0.42
11:AB:4947:DG:H2''	11:AB:4948:DC:OP2	2.20	0.42
11:AB:4994:DT:H2'	11:AB:4995:DT:H72	2.02	0.42
11:AB:5094:DT:H1'	11:AB:5095:DC:H5'	2.02	0.42
11:AB:5150:DG:C8	11:AB:5151:DT:H72	2.55	0.42
11:AB:5206:DT:H2'	11:AB:5207:DT:H72	2.02	0.42
11:AB:5270:DT:H2'	11:AB:5271:DT:H72	2.02	0.42
11:AB:5307:DT:H2'	11:AB:5308:DT:H72	2.02	0.42
11:AB:5347:DT:H2'	11:AB:5348:DT:H72	2.02	0.42
11:AB:5355:DT:H2'	11:AB:5356:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5466:DT:H2'	11:AB:5467:DT:H72	2.02	0.42
11:AB:5537:DT:H2'	11:AB:5538:DT:H72	2.02	0.42
11:AB:5609:DT:H2'	11:AB:5610:DT:H72	2.02	0.42
11:AB:5661:DT:H2'	11:AB:5662:DT:H72	2.02	0.42
11:AB:5698:DT:H1'	11:AB:5699:DC:H5'	2.02	0.42
11:AB:5713:DT:H2'	11:AB:5714:DT:H72	2.01	0.42
11:AB:5751:DT:H2'	11:AB:5752:DT:H72	2.02	0.42
11:AB:5772:DG:H2'	11:AB:5773:DC:OP2	2.20	0.42
11:AB:6149:DT:H2'	11:AB:6150:DT:H72	2.02	0.42
11:AB:6161:DT:H2'	11:AB:6162:DT:H72	2.02	0.42
11:AB:6183:DT:H2'	11:AB:6184:DT:H72	2.02	0.42
11:AB:6280:DT:H2'	11:AB:6281:DT:H72	2.02	0.42
11:AB:6281:DT:H2'	11:AB:6282:DT:H72	2.02	0.42
11:AB:6312:DT:H2'	11:AB:6313:DT:H72	2.02	0.42
11:AB:6439:DG:C8	11:AB:6440:DT:H72	2.55	0.42
11:AB:6449:DG:C8	11:AB:6450:DT:H72	2.55	0.42
11:AB:6460:DG:C8	11:AB:6461:DT:H72	2.55	0.42
11:AB:6483:DT:H2'	11:AB:6484:DT:H72	2.02	0.42
11:AB:6518:DG:C8	11:AB:6519:DT:H72	2.55	0.42
11:AB:6521:DG:C8	11:AB:6522:DT:H72	2.55	0.42
11:AB:6604:DT:H1'	11:AB:6605:DC:H5'	2.02	0.42
11:AB:6611:DG:C8	11:AB:6612:DT:H72	2.55	0.42
11:AB:6790:DT:H2'	11:AB:6791:DT:H72	2.02	0.42
11:AB:6793:DT:H2'	11:AB:6794:DT:H72	2.02	0.42
11:AB:6817:DG:C8	11:AB:6818:DT:H72	2.55	0.42
11:AB:6857:DG:C8	11:AB:6858:DT:H72	2.55	0.42
11:AB:6902:DT:H1'	11:AB:6903:DC:H5'	2.02	0.42
11:AB:6912:DG:C8	11:AB:6913:DT:H72	2.55	0.42
11:AB:6918:DG:H2'	11:AB:6919:DC:OP2	2.19	0.42
11:AB:6960:DT:H1'	11:AB:6961:DC:H5'	2.02	0.42
11:AB:6977:DT:H1'	11:AB:6978:DC:H5'	2.02	0.42
11:AB:6993:DT:H2'	11:AB:6994:DT:H72	2.02	0.42
11:AB:7133:DT:H2'	11:AB:7134:DT:H72	2.02	0.42
11:AB:7137:DT:H1'	11:AB:7138:DC:H5'	2.02	0.42
12:AC:13:DT:H2'	12:AC:14:DT:H72	2.02	0.42
16:B3:18:DG:C8	16:B3:19:DT:H72	2.55	0.42
18:B5:1:DT:H1'	18:B5:2:DC:H5'	2.02	0.42
20:B7:14:DT:H72	97:I7:27:DT:H2'	2.02	0.42
20:B7:21:DG:C8	20:B7:22:DT:H72	2.55	0.42
30:C6:20:DT:H2'	30:C6:21:DT:H72	2.02	0.42
31:C7:27:DT:H2'	31:C7:28:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:C9:2:DG:H1'	33:C9:3:DT:H5'	2.00	0.42
35:CC:18:DG:H1'	35:CC:19:DT:H5'	2.00	0.42
36:CD:22:DT:H1'	36:CD:23:DC:H5'	2.02	0.42
37:D1:7:DT:H2'	138:M5:29:DT:H72	2.02	0.42
39:D3:1:DT:H72	204:T3:45:DT:H2'	2.02	0.42
39:D3:5:DT:H1'	39:D3:6:DC:H5'	2.02	0.42
41:D6:33:DG:C8	41:D6:34:DT:H72	2.55	0.42
42:D7:9:DG:C8	42:D7:10:DT:H72	2.55	0.42
43:D8:9:DG:H2''	43:D8:10:DC:OP2	2.19	0.42
53:E7:20:DG:C8	53:E7:21:DT:H72	2.55	0.42
54:E8:17:DT:H1'	54:E8:18:DC:H5'	2.02	0.42
55:E9:36:DT:H2'	55:E9:37:DT:H72	2.02	0.42
56:EA:15:DG:C8	56:EA:16:DT:H72	2.55	0.42
57:EC:12:DG:H1'	57:EC:13:DT:H5'	2.00	0.42
58:ED:10:DT:H1'	58:ED:11:DC:H5'	2.02	0.42
64:F7:20:DG:H1'	64:F7:21:DT:H5'	2.00	0.42
69:FD:9:DG:C8	69:FD:10:DT:H72	2.55	0.42
72:G3:26:DG:H1'	72:G3:27:DT:H5'	2.00	0.42
76:G8:1:DG:C8	76:G8:2:DT:H72	2.55	0.42
82:H2:7:DT:H1'	82:H2:8:DC:H5'	2.02	0.42
83:H3:8:DT:H2'	83:H3:9:DT:H72	2.02	0.42
84:H5:3:DG:C8	84:H5:4:DT:H72	2.55	0.42
85:H6:17:DG:H2''	85:H6:18:DC:OP2	2.19	0.42
87:H8:15:DG:H1'	87:H8:16:DT:H5'	2.00	0.42
91:HD:9:DT:H2'	91:HD:10:DT:H72	2.02	0.42
94:I3:40:DG:C8	94:I3:41:DT:H72	2.55	0.42
98:I8:39:DG:C8	98:I8:40:DT:H72	2.55	0.42
99:I9:14:DG:C8	99:I9:15:DT:H72	2.55	0.42
101:IC:16:DT:H1'	101:IC:17:DC:H5'	2.01	0.42
108:J7:18:DT:H2'	108:J7:19:DT:H72	2.02	0.42
109:J8:36:DT:H72	232:W7:27:DT:H2'	2.02	0.42
110:J9:15:DG:H2''	110:J9:16:DC:OP2	2.19	0.42
111:JA:10:DG:C8	111:JA:11:DT:H72	2.55	0.42
112:JC:21:DT:H2'	112:JC:22:DT:H72	2.02	0.42
113:JD:33:DG:C8	113:JD:34:DT:H72	2.55	0.42
115:K2:31:DT:H2'	115:K2:32:DT:H72	2.02	0.42
115:K2:32:DT:H2'	115:K2:33:DT:H72	2.02	0.42
118:K6:14:DT:H1'	118:K6:15:DC:H5'	2.02	0.42
120:K8:6:DG:H2''	120:K8:7:DC:OP2	2.19	0.42
121:K9:6:DT:H1'	121:K9:7:DC:H5'	2.02	0.42
121:K9:18:DT:H2'	121:K9:19:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
121:K9:25:DG:C8	121:K9:26:DT:H72	2.55	0.42
122:KA:3:DG:C8	122:KA:4:DT:H72	2.55	0.42
125:L1:23:DT:H2'	125:L1:24:DT:H72	2.02	0.42
125:L1:46:DT:H2'	125:L1:47:DT:H72	2.02	0.42
126:L2:22:DT:H2'	126:L2:23:DT:H72	2.02	0.42
127:L3:13:DT:H2'	127:L3:14:DT:H72	2.02	0.42
127:L3:14:DT:H2'	211:TD:29:DT:H72	2.02	0.42
136:M2:21:DT:H2'	166:P2:17:DT:H72	2.02	0.42
142:M9:13:DT:H2'	142:M9:14:DT:H72	2.02	0.42
144:MC:10:DG:C8	144:MC:11:DT:H72	2.55	0.42
145:MD:29:DT:H2'	145:MD:30:DT:H72	2.02	0.42
145:MD:30:DT:H2'	173:PA:22:DT:H72	2.02	0.42
145:MD:46:DG:C8	145:MD:47:DT:H72	2.55	0.42
147:N3:14:DT:H2'	147:N3:15:DT:H72	2.02	0.42
148:N5:12:DG:C8	148:N5:13:DT:H72	2.55	0.42
149:N6:10:DT:H1'	149:N6:11:DC:H5'	2.02	0.42
149:N6:21:DG:C8	149:N6:22:DT:H72	2.55	0.42
158:O5:14:DC:H5'	221:V2:4:DT:H1'	2.02	0.42
161:O8:6:DG:C8	161:O8:7:DT:H72	2.55	0.42
161:O8:23:DG:C8	161:O8:24:DT:H72	2.55	0.42
161:O8:36:DG:C8	161:O8:37:DT:H72	2.55	0.42
161:O8:46:DT:H2'	161:O8:47:DT:H72	2.02	0.42
161:O8:57:DG:C8	161:O8:58:DT:H72	2.55	0.42
164:OC:18:DT:H2'	164:OC:19:DT:H72	2.02	0.42
166:P2:18:DT:H2'	166:P2:19:DT:H72	2.02	0.42
166:P2:19:DT:H1'	166:P2:20:DC:H5'	2.01	0.42
172:P9:15:DG:C8	172:P9:16:DT:H72	2.55	0.42
172:P9:24:DT:H1'	172:P9:25:DC:H5'	2.02	0.42
184:QD:31:DT:H2'	190:R9:1:DT:H72	2.02	0.42
187:R5:15:DT:H1'	187:R5:16:DC:H5'	2.02	0.42
190:R9:23:DG:H1'	190:R9:24:DT:H5'	2.00	0.42
190:R9:28:DG:H2''	190:R9:29:DC:OP2	2.19	0.42
196:S5:30:DT:H2'	196:S5:31:DT:H72	2.02	0.42
203:T2:6:DT:H2'	203:T2:7:DT:H72	2.02	0.42
203:T2:14:DG:H1'	203:T2:15:DT:H5'	2.00	0.42
203:T2:22:DG:C8	203:T2:23:DT:H72	2.55	0.42
204:T3:39:DG:C8	204:T3:40:DT:H72	2.55	0.42
211:TD:1:DT:H2'	211:TD:2:DT:H72	2.02	0.42
211:TD:29:DT:H1'	211:TD:30:DC:H5'	2.02	0.42
212:U2:21:DT:H2'	212:U2:22:DT:H72	2.02	0.42
213:U3:16:DG:C8	213:U3:17:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
216:U8:5:DG:C8	216:U8:6:DT:H72	2.55	0.42
228:VC:9:DG:C8	228:VC:10:DT:H72	2.55	0.42
231:W5:26:DT:H2'	231:W5:27:DT:H72	2.02	0.42
232:W7:12:DG:C8	232:W7:13:DT:H72	2.55	0.42
236:X5:5:DG:H2''	236:X5:6:DC:OP2	2.19	0.42
1:A1:5:DT:H2'	115:K2:31:DT:H72	2.02	0.42
2:A2:17:DT:H2'	206:T7:46:DT:H72	2.02	0.42
3:A3:1:DT:H1'	3:A3:2:DC:H5'	2.02	0.42
5:A5:13:DT:H2'	5:A5:14:DT:H72	2.02	0.42
5:A5:15:DC:H5'	37:D1:35:DT:H1'	2.02	0.42
7:A7:27:DT:H2'	118:K6:14:DT:H72	2.02	0.42
7:A7:35:DG:C8	7:A7:36:DT:H72	2.55	0.42
9:A9:14:DT:H2'	9:A9:15:DT:H72	2.02	0.42
11:AB:29:DG:C8	11:AB:30:DT:H72	2.55	0.42
11:AB:32:DG:C8	11:AB:33:DT:H72	2.55	0.42
11:AB:38:DG:C8	11:AB:39:DT:H72	2.55	0.42
11:AB:177:DT:H2'	11:AB:178:DT:H72	2.02	0.42
11:AB:183:DG:H1'	11:AB:184:DT:H5'	2.00	0.42
11:AB:282:DT:H2'	11:AB:283:DT:H72	2.02	0.42
11:AB:294:DG:H2''	11:AB:295:DC:OP2	2.19	0.42
11:AB:333:DG:C8	11:AB:334:DT:H72	2.55	0.42
11:AB:336:DG:C8	11:AB:337:DT:H72	2.55	0.42
11:AB:359:DG:C8	11:AB:360:DT:H72	2.55	0.42
11:AB:446:DT:H2'	11:AB:447:DT:H72	2.02	0.42
11:AB:593:DT:H1'	11:AB:594:DC:H5'	2.02	0.42
11:AB:666:DG:C8	11:AB:667:DT:H72	2.55	0.42
11:AB:687:DG:C8	11:AB:688:DT:H72	2.55	0.42
11:AB:795:DT:H2'	11:AB:796:DT:H72	2.02	0.42
11:AB:801:DG:C8	11:AB:802:DT:H72	2.55	0.42
11:AB:868:DG:C8	11:AB:869:DT:H72	2.55	0.42
11:AB:947:DT:H2'	11:AB:948:DT:H72	2.02	0.42
11:AB:975:DT:H2'	11:AB:976:DT:H72	2.02	0.42
11:AB:1092:DG:H2''	11:AB:1093:DC:OP2	2.20	0.42
11:AB:1099:DT:H1'	11:AB:1100:DC:H5'	2.02	0.42
11:AB:1144:DG:C8	11:AB:1145:DT:H72	2.55	0.42
11:AB:1192:DG:C8	11:AB:1193:DT:H72	2.55	0.42
11:AB:1198:DG:C8	11:AB:1199:DT:H72	2.55	0.42
11:AB:1206:DT:H1'	11:AB:1207:DC:H5'	2.02	0.42
11:AB:1223:DT:H2'	11:AB:1224:DT:H72	2.02	0.42
11:AB:1264:DG:C8	11:AB:1265:DT:H72	2.55	0.42
11:AB:1279:DT:H2'	11:AB:1280:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1288:DG:C8	11:AB:1289:DT:H72	2.55	0.42
11:AB:1341:DG:C8	11:AB:1342:DT:H72	2.55	0.42
11:AB:1372:DT:H2'	11:AB:1373:DT:H72	2.02	0.42
11:AB:1393:DT:H2'	11:AB:1394:DT:H72	2.02	0.42
11:AB:1395:DG:H2''	11:AB:1396:DC:OP2	2.20	0.42
11:AB:1429:DG:H2''	11:AB:1430:DC:OP2	2.19	0.42
11:AB:1450:DG:C8	11:AB:1451:DT:H72	2.55	0.42
11:AB:1467:DT:H1'	11:AB:1468:DC:H5'	2.02	0.42
11:AB:1508:DT:H2'	11:AB:1509:DT:H72	2.02	0.42
11:AB:1554:DT:H2'	11:AB:1555:DT:H72	2.02	0.42
11:AB:1593:DG:C8	11:AB:1594:DT:H72	2.55	0.42
11:AB:1599:DT:H1'	11:AB:1600:DC:H5'	2.02	0.42
11:AB:1631:DT:H2'	11:AB:1632:DT:H72	2.02	0.42
11:AB:1645:DT:H1'	11:AB:1646:DC:H5'	2.02	0.42
11:AB:1716:DT:H2'	11:AB:1717:DT:H72	2.02	0.42
11:AB:1877:DT:H2'	11:AB:1878:DT:H72	2.02	0.42
11:AB:1903:DT:H1'	11:AB:1904:DC:H5'	2.02	0.42
11:AB:2046:DT:H2'	11:AB:2047:DT:H72	2.02	0.42
11:AB:2060:DT:H2'	11:AB:2061:DT:H72	2.02	0.42
11:AB:2137:DT:H2'	11:AB:2138:DT:H72	2.02	0.42
11:AB:2194:DT:H2'	11:AB:2195:DT:H72	2.02	0.42
11:AB:2201:DT:H2'	11:AB:2202:DT:H72	2.02	0.42
11:AB:2225:DT:H2'	11:AB:2226:DT:H72	2.02	0.42
11:AB:2244:DT:H2'	11:AB:2245:DT:H72	2.02	0.42
11:AB:2254:DT:H2'	11:AB:2255:DT:H72	2.02	0.42
11:AB:2394:DT:H2'	11:AB:2395:DT:H72	2.02	0.42
11:AB:2395:DT:H2'	11:AB:2396:DT:H72	2.02	0.42
11:AB:2416:DG:C8	11:AB:2417:DT:H72	2.55	0.42
11:AB:2430:DT:H2'	11:AB:2431:DT:H72	2.02	0.42
11:AB:2445:DT:H1'	11:AB:2446:DC:H5'	2.02	0.42
11:AB:2456:DG:C8	11:AB:2457:DT:H72	2.55	0.42
11:AB:2508:DT:H2'	11:AB:2509:DT:H72	2.02	0.42
11:AB:2534:DT:H1'	11:AB:2535:DC:H5'	2.02	0.42
11:AB:2604:DG:C8	11:AB:2605:DT:H72	2.55	0.42
11:AB:2607:DG:C8	11:AB:2608:DT:H72	2.55	0.42
11:AB:2610:DT:H1'	11:AB:2611:DC:H5'	2.02	0.42
11:AB:2635:DT:H1'	11:AB:2636:DC:H5'	2.02	0.42
11:AB:2739:DT:H1'	11:AB:2740:DC:H5'	2.01	0.42
11:AB:2799:DG:H1'	11:AB:2800:DT:H5'	2.00	0.42
11:AB:2806:DG:H1'	11:AB:2807:DT:H5'	2.00	0.42
11:AB:2815:DT:H2'	11:AB:2816:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2822:DT:H1'	11:AB:2823:DC:H5'	2.02	0.42
11:AB:2842:DT:H1'	11:AB:2843:DC:H5'	2.02	0.42
11:AB:2874:DT:H72	11:AB:5061:DG:C8	2.55	0.42
11:AB:2880:DT:H1'	11:AB:2881:DC:H5'	2.01	0.42
11:AB:2890:DT:H2'	11:AB:2891:DT:H72	2.02	0.42
11:AB:2893:DG:C8	11:AB:2894:DT:H72	2.55	0.42
11:AB:2930:DT:H2'	11:AB:2931:DT:H72	2.02	0.42
11:AB:3016:DT:H2'	11:AB:3017:DT:H72	2.02	0.42
11:AB:3112:DT:H1'	11:AB:3113:DC:H5'	2.02	0.42
11:AB:3155:DG:C8	11:AB:3156:DT:H72	2.55	0.42
11:AB:3160:DT:H2'	11:AB:3161:DT:H72	2.02	0.42
11:AB:3163:DG:C8	11:AB:3164:DT:H72	2.55	0.42
11:AB:3280:DT:H2'	11:AB:3281:DT:H72	2.02	0.42
11:AB:3341:DT:H2'	11:AB:3342:DT:H72	2.02	0.42
11:AB:3369:DG:H2''	11:AB:3370:DC:OP2	2.19	0.42
11:AB:3410:DT:H2'	11:AB:3411:DT:H72	2.02	0.42
11:AB:3419:DG:C8	11:AB:3420:DT:H72	2.55	0.42
11:AB:3434:DT:H2'	11:AB:3435:DT:H72	2.02	0.42
11:AB:3458:DG:C8	11:AB:3459:DT:H72	2.55	0.42
11:AB:3504:DT:H2'	11:AB:3505:DT:H72	2.02	0.42
11:AB:3521:DG:C8	11:AB:3522:DT:H72	2.55	0.42
11:AB:3547:DG:C8	11:AB:3548:DT:H72	2.55	0.42
11:AB:3604:DG:C8	11:AB:3605:DT:H72	2.55	0.42
11:AB:3639:DT:H2'	11:AB:3640:DT:H72	2.02	0.42
11:AB:3666:DT:H2'	11:AB:3667:DT:H72	2.02	0.42
11:AB:3748:DT:H1'	11:AB:3749:DC:H5'	2.02	0.42
11:AB:3800:DT:H2'	11:AB:3801:DT:H72	2.02	0.42
11:AB:3824:DG:C8	11:AB:3825:DT:H72	2.55	0.42
11:AB:3858:DT:H1'	11:AB:3859:DC:H5'	2.02	0.42
11:AB:3871:DG:H2''	11:AB:3872:DC:OP2	2.19	0.42
11:AB:3956:DT:H72	11:AB:4375:DG:C8	2.55	0.42
11:AB:4011:DT:H2'	11:AB:4348:DT:H72	2.02	0.42
11:AB:4036:DG:C8	11:AB:4037:DT:H72	2.55	0.42
11:AB:4061:DG:H2''	11:AB:4062:DC:OP2	2.20	0.42
11:AB:4166:DT:H1'	11:AB:4167:DC:H5'	2.02	0.42
11:AB:4182:DT:H1'	11:AB:4183:DC:H5'	2.01	0.42
11:AB:4191:DT:H2'	11:AB:4192:DT:H72	2.02	0.42
11:AB:4290:DG:C8	11:AB:4291:DT:H72	2.55	0.42
11:AB:4318:DT:H2'	11:AB:4319:DT:H72	2.02	0.42
11:AB:4344:DG:C8	11:AB:4345:DT:H72	2.55	0.42
11:AB:4345:DT:H2'	11:AB:4346:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4349:DT:H2'	11:AB:4350:DT:H72	2.02	0.42
11:AB:4425:DT:H2'	11:AB:4426:DT:H72	2.02	0.42
11:AB:4482:DG:C8	11:AB:4483:DT:H72	2.55	0.42
11:AB:4529:DT:H1'	11:AB:4530:DC:H5'	2.02	0.42
11:AB:4542:DG:C8	11:AB:4543:DT:H72	2.55	0.42
11:AB:4593:DT:H1'	11:AB:4594:DC:H5'	2.02	0.42
11:AB:4604:DG:C8	11:AB:4605:DT:H72	2.55	0.42
11:AB:4638:DG:C8	11:AB:4639:DT:H72	2.55	0.42
11:AB:4685:DG:C8	11:AB:4686:DT:H72	2.55	0.42
11:AB:4711:DG:H2''	11:AB:4712:DC:OP2	2.19	0.42
11:AB:4727:DT:H2'	11:AB:4728:DT:H72	2.02	0.42
11:AB:4753:DG:C8	11:AB:4754:DT:H72	2.55	0.42
11:AB:4797:DT:H2'	11:AB:4798:DT:H72	2.02	0.42
11:AB:4856:DT:H2'	11:AB:4857:DT:H72	2.02	0.42
11:AB:4871:DG:C8	11:AB:4872:DT:H72	2.55	0.42
11:AB:4874:DT:H2'	11:AB:4875:DT:H72	2.02	0.42
11:AB:4904:DG:C8	11:AB:4905:DT:H72	2.55	0.42
11:AB:4933:DT:H1'	11:AB:4934:DC:H5'	2.02	0.42
11:AB:4993:DG:C8	11:AB:4994:DT:H72	2.55	0.42
11:AB:5017:DG:H2''	11:AB:5018:DC:OP2	2.20	0.42
11:AB:5045:DG:H2''	11:AB:5046:DC:OP2	2.20	0.42
11:AB:5168:DG:C8	11:AB:5169:DT:H72	2.55	0.42
11:AB:5181:DT:H2'	11:AB:5182:DT:H72	2.02	0.42
11:AB:5183:DG:C8	11:AB:5184:DT:H72	2.55	0.42
11:AB:5228:DG:C8	11:AB:5229:DT:H72	2.55	0.42
11:AB:5271:DT:H2'	11:AB:5272:DT:H72	2.02	0.42
11:AB:5385:DT:H2'	11:AB:5386:DT:H72	2.02	0.42
11:AB:5464:DG:C8	11:AB:5465:DT:H72	2.55	0.42
11:AB:5601:DT:H1'	11:AB:5602:DC:H5'	2.02	0.42
11:AB:5758:DT:H1'	11:AB:5759:DC:H5'	2.02	0.42
11:AB:5965:DG:C8	11:AB:5966:DT:H72	2.55	0.42
11:AB:6001:DG:C8	11:AB:6002:DT:H72	2.55	0.42
11:AB:6100:DG:H1'	11:AB:6101:DT:H5'	2.00	0.42
11:AB:6142:DG:C8	11:AB:6143:DT:H72	2.55	0.42
11:AB:6144:DT:H1'	11:AB:6145:DC:H5'	2.02	0.42
11:AB:6245:DG:C8	11:AB:6246:DT:H72	2.55	0.42
11:AB:6431:DG:C8	11:AB:6432:DT:H72	2.55	0.42
11:AB:6434:DG:C8	11:AB:6435:DT:H72	2.55	0.42
11:AB:6477:DT:H1'	11:AB:6478:DC:H5'	2.02	0.42
11:AB:6557:DG:C8	11:AB:6558:DT:H72	2.55	0.42
11:AB:6582:DT:H2'	11:AB:6583:DT:H72	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6653:DG:C8	11:AB:6654:DT:H72	2.55	0.42
11:AB:6878:DG:C8	11:AB:6879:DT:H72	2.55	0.42
11:AB:6884:DT:H2'	11:AB:6885:DT:H72	2.02	0.42
11:AB:6937:DG:C8	11:AB:6938:DT:H72	2.55	0.42
11:AB:6946:DT:H2'	11:AB:6947:DT:H72	2.01	0.42
11:AB:6982:DG:C8	11:AB:6983:DT:H72	2.55	0.42
11:AB:6985:DG:C8	11:AB:6986:DT:H72	2.55	0.42
11:AB:7030:DG:C8	11:AB:7031:DT:H72	2.55	0.42
11:AB:7038:DG:C8	11:AB:7039:DT:H72	2.55	0.42
11:AB:7043:DT:H2'	11:AB:7044:DT:H72	2.02	0.42
11:AB:7059:DG:C8	11:AB:7060:DT:H72	2.55	0.42
11:AB:7062:DT:H2'	11:AB:7063:DT:H72	2.02	0.42
11:AB:7066:DG:C8	11:AB:7067:DT:H72	2.55	0.42
12:AC:18:DG:H2''	12:AC:19:DC:OP2	2.19	0.42
13:AD:41:DT:H2'	13:AD:42:DT:H72	2.02	0.42
14:B1:4:DT:H1'	14:B1:5:DC:H5'	2.02	0.42
16:B3:14:DT:H2'	16:B3:15:DT:H72	2.02	0.42
17:B4:18:DG:C8	17:B4:19:DT:H72	2.55	0.42
23:BA:5:DG:C8	23:BA:6:DT:H72	2.55	0.42
29:C5:1:DT:H72	231:W5:35:DG:C8	2.55	0.42
30:C6:3:DG:C8	30:C6:4:DT:H72	2.55	0.42
30:C6:13:DT:H1'	30:C6:14:DC:H5'	2.02	0.42
31:C7:13:DG:C8	31:C7:14:DT:H72	2.55	0.42
31:C7:26:DT:H2'	31:C7:27:DT:H72	2.02	0.42
32:C8:47:DG:H2''	32:C8:48:DC:OP2	2.19	0.42
33:C9:20:DG:C8	33:C9:21:DT:H72	2.55	0.42
34:CA:13:DG:C8	34:CA:14:DT:H72	2.55	0.42
34:CA:14:DT:H1'	34:CA:15:DC:H5'	2.02	0.42
35:CC:28:DG:C8	35:CC:29:DT:H72	2.55	0.42
49:E2:24:DC:OP1	222:V3:25:DG:H2''	2.20	0.42
50:E3:15:DC:H5'	181:Q9:32:DT:H1'	2.02	0.42
51:E5:16:DG:C8	51:E5:17:DT:H72	2.55	0.42
52:E6:25:DT:H1'	52:E6:26:DC:H5'	2.02	0.42
54:E8:37:DG:C8	79:GC:1:DT:H72	2.55	0.42
55:E9:45:DG:C8	70:G1:1:DT:H72	2.55	0.42
57:EC:1:DT:H1'	57:EC:2:DC:H5'	2.02	0.42
58:ED:38:DT:H1'	58:ED:39:DC:H5'	2.02	0.42
62:F5:38:DT:H1'	64:F7:12:DC:H5'	2.02	0.42
64:F7:15:DG:C8	64:F7:16:DT:H72	2.55	0.42
72:G3:1:DT:H72	83:H3:7:DT:H2'	2.02	0.42
72:G3:11:DG:C8	72:G3:12:DT:H72	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:G3:26:DG:C8	72:G3:27:DT:H72	2.55	0.42
73:G5:16:DG:C8	73:G5:17:DT:H72	2.55	0.42
73:G5:22:DG:C8	73:G5:23:DT:H72	2.55	0.42
76:G8:15:DG:C8	76:G8:16:DT:H72	2.55	0.42
76:G8:16:DT:H2'	76:G8:17:DT:H72	2.02	0.42
83:H3:26:DG:H1'	83:H3:27:DT:H5'	2.00	0.42
84:H5:7:DG:C8	84:H5:8:DT:H72	2.55	0.42
84:H5:37:DT:H1'	84:H5:38:DC:H5'	2.02	0.42
86:H7:24:DG:C8	140:M7:1:DT:H72	2.55	0.42
89:HA:31:DT:H1'	89:HA:32:DC:H5'	2.02	0.42
91:HD:10:DT:H1'	91:HD:11:DC:H5'	2.02	0.42
96:I6:5:DG:C8	96:I6:6:DT:H72	2.55	0.42
97:I7:12:DT:H2'	97:I7:13:DT:H72	2.02	0.42
102:ID:8:DG:C8	102:ID:9:DT:H72	2.55	0.42
106:J5:30:DG:H2''	106:J5:31:DC:OP2	2.19	0.42
112:JC:19:DT:H2'	112:JC:20:DT:H72	2.02	0.42
113:JD:30:DG:H2''	113:JD:31:DC:OP2	2.19	0.42
114:K1:35:DT:H2'	119:K7:26:DT:H72	2.02	0.42
115:K2:11:DG:C8	115:K2:12:DT:H72	2.55	0.42
116:K3:13:DT:H1'	204:T3:22:DC:H5'	2.02	0.42
119:K7:37:DT:H2'	119:K7:38:DT:H72	2.02	0.42
123:KC:12:DG:C8	123:KC:13:DT:H72	2.55	0.42
126:L2:28:DC:OP1	224:V7:16:DG:H2''	2.20	0.42
128:L5:7:DT:H2'	128:L5:8:DT:H72	2.02	0.42
128:L5:13:DT:H1'	128:L5:14:DC:H5'	2.02	0.42
129:L6:6:DG:C8	129:L6:7:DT:H72	2.55	0.42
130:L7:30:DG:C8	130:L7:31:DT:H72	2.55	0.42
137:M3:26:DG:H1'	137:M3:27:DT:H5'	2.00	0.42
140:M7:13:DG:H2''	140:M7:14:DC:OP2	2.20	0.42
142:M9:21:DG:C8	142:M9:22:DT:H72	2.55	0.42
144:MC:14:DT:H2'	144:MC:15:DT:H72	2.02	0.42
145:MD:17:DT:H72	172:P9:16:DT:H2'	2.02	0.42
147:N3:33:DT:H1'	147:N3:34:DC:H5'	2.01	0.42
148:N5:12:DG:H1'	148:N5:13:DT:H5'	2.00	0.42
152:N9:41:DG:C8	152:N9:42:DT:H72	2.55	0.42
154:NC:35:DG:C8	154:NC:36:DT:H72	2.55	0.42
158:O5:7:DG:C8	158:O5:8:DT:H72	2.55	0.42
166:P2:13:DG:C8	166:P2:14:DT:H72	2.55	0.42
166:P2:22:DG:C8	166:P2:23:DT:H72	2.55	0.42
168:P5:10:DG:C8	168:P5:11:DT:H72	2.55	0.42
168:P5:11:DT:H2'	168:P5:12:DT:H72	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
179:Q7:11:DT:H1'	179:Q7:12:DC:H5'	2.02	0.42
180:Q8:26:DG:C8	180:Q8:27:DT:H72	2.55	0.42
187:R5:15:DT:H72	223:V5:34:DT:H2'	2.02	0.42
187:R5:23:DG:C8	187:R5:24:DT:H72	2.55	0.42
194:S2:26:DT:H2'	194:S2:27:DT:H72	2.02	0.42
196:S5:4:DG:C8	196:S5:5:DT:H72	2.55	0.42
200:SA:24:DT:H1'	200:SA:25:DC:H5'	2.02	0.42
203:T2:7:DT:H2'	203:T2:8:DT:H72	2.02	0.42
204:T3:44:DG:C8	204:T3:45:DT:H72	2.55	0.42
206:T7:46:DT:H2'	206:T7:47:DT:H72	2.02	0.42
215:U7:6:DT:H1'	215:U7:7:DC:H5'	2.02	0.42
219:UC:8:DG:C8	219:UC:9:DT:H72	2.55	0.42
219:UC:9:DT:H2'	219:UC:10:DT:H72	2.02	0.42
221:V2:15:DG:C8	221:V2:16:DT:H72	2.55	0.42
223:V5:3:DG:C8	223:V5:4:DT:H72	2.55	0.42
227:VA:12:DG:C8	227:VA:13:DT:H72	2.55	0.42
231:W5:8:DG:C8	231:W5:9:DT:H72	2.55	0.42
231:W5:10:DT:H2'	231:W5:11:DT:H72	2.02	0.42
231:W5:11:DT:H2'	231:W5:12:DT:H72	2.02	0.42
233:W8:7:DT:H1'	233:W8:8:DC:H5'	2.02	0.42
234:W9:8:DG:C8	234:W9:9:DT:H72	2.55	0.42
235:WD:20:DT:H2'	235:WD:21:DT:H72	2.02	0.42
238:X9:26:DG:C8	238:X9:27:DT:H72	2.55	0.42
238:X9:32:DT:H1'	238:X9:33:DC:H5'	2.02	0.42
2:A2:3:DG:H2''	2:A2:4:DC:OP2	2.20	0.41
2:A2:18:DT:H72	206:T7:45:DT:H2'	2.02	0.41
3:A3:10:DG:C8	3:A3:11:DT:H72	2.55	0.41
3:A3:16:DT:H2'	39:D3:5:DT:H72	2.02	0.41
4:A4:16:DT:H1'	4:A4:17:DC:H5'	2.02	0.41
5:A5:25:DG:C8	5:A5:26:DT:H72	2.55	0.41
5:A5:39:DG:C8	5:A5:40:DT:H72	2.55	0.41
8:A8:24:DG:C8	8:A8:25:DT:H72	2.55	0.41
10:AA:16:DT:H2'	22:B9:29:DT:H72	2.02	0.41
11:AB:14:DG:H2''	11:AB:15:DC:OP2	2.19	0.41
11:AB:30:DT:H2'	11:AB:31:DT:H72	2.02	0.41
11:AB:65:DT:H2'	11:AB:66:DT:H72	2.02	0.41
11:AB:194:DT:H2'	11:AB:195:DT:H72	2.02	0.41
11:AB:223:DG:C8	11:AB:224:DT:H72	2.55	0.41
11:AB:314:DG:C8	11:AB:315:DT:H72	2.55	0.41
11:AB:367:DG:C8	11:AB:368:DT:H72	2.55	0.41
11:AB:367:DG:H1'	11:AB:368:DT:H5'	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:376:DT:H2'	11:AB:377:DT:H72	2.02	0.41
11:AB:409:DG:C8	11:AB:410:DT:H72	2.55	0.41
11:AB:430:DG:C8	11:AB:431:DT:H72	2.55	0.41
11:AB:432:DT:H1'	11:AB:433:DC:H5'	2.02	0.41
11:AB:609:DT:H2'	11:AB:610:DT:H72	2.02	0.41
11:AB:651:DG:C8	11:AB:652:DT:H72	2.55	0.41
11:AB:812:DT:H1'	11:AB:813:DC:H5'	2.02	0.41
11:AB:824:DG:C8	11:AB:825:DT:H72	2.55	0.41
11:AB:918:DT:H1'	11:AB:919:DC:H5'	2.01	0.41
11:AB:952:DG:C8	11:AB:953:DT:H72	2.55	0.41
11:AB:1111:DT:H2'	11:AB:1112:DT:H72	2.02	0.41
11:AB:1267:DG:H2''	11:AB:1268:DC:OP2	2.19	0.41
11:AB:1275:DG:C8	11:AB:1276:DT:H72	2.55	0.41
11:AB:1356:DT:H2'	11:AB:1357:DT:H72	2.02	0.41
11:AB:1362:DG:C8	11:AB:1363:DT:H72	2.55	0.41
11:AB:1433:DG:C8	11:AB:1434:DT:H72	2.55	0.41
11:AB:1494:DG:H2''	11:AB:1495:DC:OP2	2.20	0.41
11:AB:1550:DT:H2'	11:AB:1551:DT:H72	2.02	0.41
11:AB:1552:DG:C8	11:AB:1553:DT:H72	2.55	0.41
11:AB:1557:DT:H2'	11:AB:1558:DT:H72	2.02	0.41
11:AB:1611:DG:H2''	11:AB:1612:DC:OP2	2.20	0.41
11:AB:1641:DG:C8	11:AB:1642:DT:H72	2.55	0.41
11:AB:1677:DG:C8	11:AB:1678:DT:H72	2.55	0.41
11:AB:1718:DT:H2'	11:AB:1719:DT:H72	2.02	0.41
11:AB:1725:DT:H2'	11:AB:1726:DT:H72	2.02	0.41
11:AB:1782:DG:C8	11:AB:1783:DT:H72	2.55	0.41
11:AB:1821:DG:C8	11:AB:1822:DT:H72	2.55	0.41
11:AB:1930:DT:H2'	11:AB:1931:DT:H72	2.02	0.41
11:AB:2022:DG:C8	11:AB:2023:DT:H72	2.55	0.41
11:AB:2232:DT:H2'	11:AB:2233:DT:H72	2.02	0.41
11:AB:2263:DG:H2''	11:AB:2264:DC:OP2	2.20	0.41
11:AB:2301:DG:C8	11:AB:2302:DT:H72	2.55	0.41
11:AB:2401:DG:C8	11:AB:2402:DT:H72	2.55	0.41
11:AB:2419:DT:H2'	11:AB:2420:DT:H72	2.02	0.41
11:AB:2479:DG:C8	11:AB:2480:DT:H72	2.55	0.41
11:AB:2516:DG:C8	11:AB:2517:DT:H72	2.55	0.41
11:AB:2531:DT:H2'	11:AB:2532:DT:H72	2.02	0.41
11:AB:2533:DG:C8	11:AB:2534:DT:H72	2.55	0.41
11:AB:2596:DT:H2'	11:AB:2597:DT:H72	2.02	0.41
11:AB:2624:DT:H2'	11:AB:2625:DT:H72	2.02	0.41
11:AB:2674:DG:H2''	11:AB:2675:DC:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2679:DG:C8	11:AB:2680:DT:H72	2.55	0.41
11:AB:2729:DG:H2'	11:AB:2730:DC:OP2	2.19	0.41
11:AB:2816:DT:H2'	11:AB:2817:DT:H72	2.02	0.41
11:AB:2889:DT:H2'	11:AB:2890:DT:H72	2.02	0.41
11:AB:2957:DT:H2'	11:AB:2958:DT:H72	2.02	0.41
11:AB:3013:DG:C8	11:AB:3014:DT:H72	2.55	0.41
11:AB:3020:DG:C8	11:AB:3021:DT:H72	2.55	0.41
11:AB:3161:DT:H2'	11:AB:3162:DT:H72	2.02	0.41
11:AB:3367:DT:H2'	11:AB:3368:DT:H72	2.02	0.41
11:AB:3414:DG:H2'	11:AB:3415:DC:OP2	2.19	0.41
11:AB:3600:DG:C8	11:AB:3601:DT:H72	2.55	0.41
11:AB:3614:DT:H2'	11:AB:3615:DT:H72	2.02	0.41
11:AB:3649:DG:C8	11:AB:3650:DT:H72	2.55	0.41
11:AB:3651:DT:H72	11:AB:4658:DG:C8	2.55	0.41
11:AB:3667:DT:H2'	11:AB:3668:DT:H72	2.02	0.41
11:AB:3677:DG:C8	11:AB:3678:DT:H72	2.55	0.41
11:AB:3682:DG:C8	11:AB:3683:DT:H72	2.55	0.41
11:AB:3731:DG:C8	11:AB:3732:DT:H72	2.55	0.41
11:AB:3757:DG:C8	11:AB:3758:DT:H72	2.55	0.41
11:AB:3760:DT:H2'	11:AB:3761:DT:H72	2.02	0.41
11:AB:3782:DG:C8	11:AB:3783:DT:H72	2.55	0.41
11:AB:3788:DT:H2'	11:AB:3789:DT:H72	2.02	0.41
11:AB:3820:DT:H2'	11:AB:3821:DT:H72	2.02	0.41
11:AB:3880:DG:C8	11:AB:3881:DT:H72	2.55	0.41
11:AB:3910:DC:H5'	11:AB:4413:DT:H1'	2.02	0.41
11:AB:3960:DG:C8	11:AB:3961:DT:H72	2.55	0.41
11:AB:3993:DG:C8	11:AB:3994:DT:H72	2.55	0.41
11:AB:4029:DG:C8	11:AB:4030:DT:H72	2.55	0.41
11:AB:4057:DG:C8	11:AB:4058:DT:H72	2.55	0.41
11:AB:4074:DG:H2'	11:AB:4075:DC:OP2	2.19	0.41
11:AB:4100:DG:C8	11:AB:4101:DT:H72	2.55	0.41
11:AB:4112:DG:C8	11:AB:4113:DT:H72	2.55	0.41
11:AB:4180:DG:C8	11:AB:4181:DT:H72	2.55	0.41
11:AB:4197:DG:C8	11:AB:4198:DT:H72	2.55	0.41
11:AB:4327:DT:H2'	11:AB:4328:DT:H72	2.02	0.41
11:AB:4339:DT:H1'	11:AB:4340:DC:H5'	2.02	0.41
11:AB:4447:DT:H1'	11:AB:4448:DC:H5'	2.02	0.41
11:AB:4543:DT:H1'	11:AB:4544:DC:H5'	2.02	0.41
11:AB:4595:DT:H1'	11:AB:4596:DC:H5'	2.02	0.41
11:AB:4639:DT:H2'	11:AB:4640:DT:H72	2.02	0.41
11:AB:4661:DG:C8	11:AB:4662:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4698:DT:H2'	11:AB:4699:DT:H72	2.02	0.41
11:AB:4805:DT:H1'	11:AB:4806:DC:H5'	2.02	0.41
11:AB:4868:DG:H1'	11:AB:4869:DT:H5'	2.00	0.41
11:AB:4881:DG:C8	11:AB:4882:DT:H72	2.55	0.41
11:AB:5058:DG:H2''	11:AB:5059:DC:OP2	2.19	0.41
11:AB:5105:DT:H1'	11:AB:5106:DC:H5'	2.02	0.41
11:AB:5289:DG:C8	11:AB:5290:DT:H72	2.55	0.41
11:AB:5354:DT:H2'	11:AB:5355:DT:H72	2.02	0.41
11:AB:5382:DG:C8	11:AB:5383:DT:H72	2.55	0.41
11:AB:5434:DG:C8	11:AB:5435:DT:H72	2.55	0.41
11:AB:5510:DT:H1'	11:AB:5511:DC:H5'	2.02	0.41
11:AB:5662:DT:H1'	11:AB:5663:DC:H5'	2.02	0.41
11:AB:5710:DG:C8	11:AB:5711:DT:H72	2.55	0.41
11:AB:5796:DT:H2'	11:AB:5797:DT:H72	2.02	0.41
11:AB:5818:DG:C8	11:AB:5819:DT:H72	2.55	0.41
11:AB:5866:DG:H2''	11:AB:5867:DC:OP2	2.20	0.41
11:AB:5905:DT:H2'	11:AB:5906:DT:H72	2.02	0.41
11:AB:5935:DT:H1'	11:AB:5936:DC:H5'	2.02	0.41
11:AB:5993:DG:C8	11:AB:5994:DT:H72	2.55	0.41
11:AB:5998:DT:H2'	11:AB:5999:DT:H72	2.02	0.41
11:AB:6180:DG:C8	11:AB:6181:DT:H72	2.55	0.41
11:AB:6239:DG:C8	11:AB:6240:DT:H72	2.55	0.41
11:AB:6374:DT:H2'	11:AB:6375:DT:H72	2.02	0.41
11:AB:6463:DG:H2''	11:AB:6464:DC:OP2	2.19	0.41
11:AB:6479:DG:C8	11:AB:6480:DT:H72	2.55	0.41
11:AB:6565:DG:C8	11:AB:6566:DT:H72	2.55	0.41
11:AB:6634:DG:C8	11:AB:6635:DT:H72	2.55	0.41
11:AB:6638:DT:H2'	11:AB:6639:DT:H72	2.02	0.41
11:AB:6673:DT:H2'	11:AB:6674:DT:H72	2.02	0.41
11:AB:6717:DG:C8	11:AB:6718:DT:H72	2.55	0.41
11:AB:6724:DG:C8	11:AB:6725:DT:H72	2.55	0.41
11:AB:6838:DG:C8	11:AB:6839:DT:H72	2.55	0.41
11:AB:6874:DG:C8	11:AB:6875:DT:H72	2.55	0.41
11:AB:7004:DG:C8	11:AB:7005:DT:H72	2.55	0.41
11:AB:7010:DT:H1'	11:AB:7011:DC:H5'	2.02	0.41
11:AB:7032:DG:C8	11:AB:7033:DT:H72	2.55	0.41
11:AB:7102:DG:C8	11:AB:7103:DT:H72	2.55	0.41
11:AB:7180:DG:C8	11:AB:7181:DT:H72	2.55	0.41
13:AD:38:DG:C8	13:AD:39:DT:H72	2.55	0.41
14:B1:3:DG:C8	14:B1:4:DT:H72	2.55	0.41
17:B4:6:DT:H2'	17:B4:7:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B5:21:DT:H2'	156:O2:22:DT:H72	2.02	0.41
19:B6:17:DG:C8	19:B6:18:DT:H72	2.55	0.41
20:B7:14:DT:H2'	20:B7:15:DT:H72	2.01	0.41
21:B8:4:DT:H2'	21:B8:5:DT:H72	2.02	0.41
22:B9:17:DG:C8	22:B9:18:DT:H72	2.55	0.41
24:BC:15:DG:H2''	24:BC:16:DC:OP2	2.19	0.41
25:BD:17:DG:C8	25:BD:18:DT:H72	2.55	0.41
26:C1:12:DT:H72	84:H5:12:DT:H2'	2.02	0.41
27:C2:13:DT:H2'	149:N6:38:DT:H72	2.02	0.41
30:C6:45:DG:C8	117:K5:1:DT:H72	2.55	0.41
31:C7:15:DG:C8	31:C7:16:DT:H72	2.55	0.41
32:C8:42:DG:C8	32:C8:43:DT:H72	2.55	0.41
36:CD:8:DT:H1'	36:CD:9:DC:H5'	2.02	0.41
39:D3:32:DG:H2''	39:D3:33:DC:OP2	2.20	0.41
40:D5:16:DT:H2'	231:W5:28:DT:H72	2.02	0.41
42:D7:1:DT:H72	53:E7:15:DT:H2'	2.02	0.41
42:D7:4:DG:C8	42:D7:5:DT:H72	2.55	0.41
43:D8:35:DG:H2''	117:K5:47:DC:OP1	2.20	0.41
46:DC:14:DG:C8	46:DC:15:DT:H72	2.55	0.41
50:E3:2:DG:H2''	50:E3:3:DC:OP2	2.19	0.41
51:E5:9:DT:H1'	51:E5:10:DC:H5'	2.02	0.41
54:E8:17:DT:H72	109:J8:21:DT:H2'	2.02	0.41
54:E8:24:DT:H72	68:FC:7:DG:C8	2.55	0.41
56:EA:5:DG:C8	56:EA:6:DT:H72	2.55	0.41
57:EC:12:DG:C8	57:EC:13:DT:H72	2.55	0.41
58:ED:21:DG:H2''	58:ED:22:DC:OP2	2.19	0.41
60:F2:18:DT:H2'	230:W3:22:DT:H72	2.02	0.41
62:F5:10:DT:H2'	93:I2:8:DT:H72	2.02	0.41
67:FA:6:DG:C8	67:FA:7:DT:H72	2.55	0.41
69:FD:26:DG:H1'	69:FD:27:DT:H5'	2.00	0.41
69:FD:44:DG:H2''	69:FD:45:DC:OP2	2.19	0.41
72:G3:4:DG:C8	72:G3:5:DT:H72	2.55	0.41
76:G8:4:DG:H2''	109:J8:15:DC:OP1	2.20	0.41
78:GA:8:DG:C8	78:GA:9:DT:H72	2.55	0.41
79:GC:18:DG:C8	79:GC:19:DT:H72	2.55	0.41
82:H2:33:DT:H1'	82:H2:34:DC:H5'	2.02	0.41
82:H2:43:DG:H2''	82:H2:44:DC:OP2	2.20	0.41
84:H5:14:DG:C8	84:H5:15:DT:H72	2.55	0.41
87:H8:15:DG:C8	87:H8:16:DT:H72	2.55	0.41
88:H9:10:DG:H2''	133:LA:18:DC:OP1	2.20	0.41
94:I3:41:DT:H2'	94:I3:42:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
95:I5:35:DT:H2'	138:M5:15:DT:H72	2.02	0.41
98:I8:20:DT:H1'	98:I8:21:DC:H5'	2.02	0.41
100:IA:6:DG:C8	100:IA:7:DT:H72	2.55	0.41
101:IC:25:DG:C8	101:IC:26:DT:H72	2.55	0.41
102:ID:26:DG:C8	102:ID:27:DT:H72	2.55	0.41
103:J1:22:DT:H1'	103:J1:23:DC:H5'	2.02	0.41
103:J1:28:DT:H2'	211:TD:1:DT:H72	2.02	0.41
105:J3:6:DT:H2'	105:J3:7:DT:H72	2.02	0.41
105:J3:28:DT:H72	235:WD:13:DT:H2'	2.02	0.41
107:J6:41:DG:C8	107:J6:42:DT:H72	2.55	0.41
111:JA:16:DT:H1'	111:JA:17:DC:H5'	2.02	0.41
114:K1:22:DG:C8	114:K1:23:DT:H72	2.55	0.41
114:K1:41:DT:H1'	114:K1:42:DC:H5'	2.02	0.41
117:K5:36:DG:C8	117:K5:37:DT:H72	2.55	0.41
118:K6:6:DT:H2'	118:K6:7:DT:H72	2.02	0.41
119:K7:27:DG:H2''	119:K7:28:DC:OP2	2.19	0.41
119:K7:29:DG:C8	119:K7:30:DT:H72	2.55	0.41
119:K7:39:DG:H2''	119:K7:40:DC:OP2	2.20	0.41
120:K8:5:DT:H72	141:M8:30:DT:H2'	2.02	0.41
122:KA:7:DT:H2'	209:TA:19:DT:H72	2.02	0.41
125:L1:29:DG:C8	125:L1:30:DT:H72	2.55	0.41
128:L5:1:DG:C8	128:L5:2:DT:H72	2.55	0.41
128:L5:4:DG:C8	128:L5:5:DT:H72	2.55	0.41
134:LC:10:DG:C8	134:LC:11:DT:H72	2.55	0.41
135:LD:7:DG:C8	135:LD:8:DT:H72	2.55	0.41
145:MD:33:DG:C8	145:MD:34:DT:H72	2.55	0.41
148:N5:9:DT:H2'	148:N5:10:DT:H72	2.02	0.41
149:N6:2:DG:H2''	149:N6:3:DC:OP2	2.20	0.41
149:N6:9:DT:H2'	149:N6:10:DT:H72	2.02	0.41
150:N7:15:DG:C8	150:N7:16:DT:H72	2.55	0.41
152:N9:10:DT:H2'	208:T9:14:DT:H72	2.02	0.41
154:NC:26:DG:H2''	154:NC:27:DC:OP2	2.19	0.41
155:ND:12:DT:H2'	184:QD:8:DT:H72	2.02	0.41
158:O5:50:DG:H2''	158:O5:51:DC:OP2	2.19	0.41
159:O6:1:DT:H72	169:P6:13:DT:H2'	2.02	0.41
159:O6:14:DT:H2'	159:O6:15:DT:H72	2.02	0.41
160:O7:43:DG:C8	160:O7:44:DT:H72	2.55	0.41
161:O8:4:DT:H2'	183:QC:24:DT:H72	2.02	0.41
162:O9:13:DT:H2'	191:RA:28:DT:H72	2.02	0.41
163:OA:12:DG:C8	163:OA:13:DT:H72	2.55	0.41
166:P2:23:DT:H1'	166:P2:24:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
166:P2:28:DG:H2''	166:P2:29:DC:OP2	2.19	0.41
171:P8:8:DT:H2'	171:P8:9:DT:H72	2.02	0.41
176:Q2:15:DG:C8	176:Q2:16:DT:H72	2.55	0.41
178:Q5:21:DT:H1'	178:Q5:22:DC:H5'	2.02	0.41
178:Q5:30:DG:C8	178:Q5:31:DT:H72	2.55	0.41
178:Q5:36:DT:H72	214:U5:14:DT:H2'	2.02	0.41
181:Q9:11:DT:H2'	184:QD:22:DT:H72	2.02	0.41
182:QA:11:DG:C8	182:QA:12:DT:H72	2.55	0.41
184:QD:14:DG:C8	238:X9:11:DT:H72	2.55	0.41
185:R2:1:DT:H72	198:S8:31:DT:H2'	2.02	0.41
188:R7:10:DG:C8	188:R7:11:DT:H72	2.55	0.41
191:RA:28:DT:H2'	191:RA:29:DT:H72	2.01	0.41
200:SA:23:DT:H2'	200:SA:24:DT:H72	2.02	0.41
203:T2:14:DG:C8	203:T2:15:DT:H72	2.55	0.41
203:T2:23:DT:H1'	203:T2:24:DC:H5'	2.02	0.41
204:T3:18:DG:C8	204:T3:19:DT:H72	2.55	0.41
212:U2:20:DG:C8	212:U2:21:DT:H72	2.55	0.41
218:UA:18:DG:C8	218:UA:19:DT:H72	2.55	0.41
220:UD:17:DT:H1'	220:UD:18:DC:H5'	2.02	0.41
231:W5:18:DG:C8	231:W5:19:DT:H72	2.55	0.41
231:W5:18:DG:H1'	231:W5:19:DT:H5'	2.00	0.41
231:W5:28:DT:H2'	231:W5:29:DT:H72	2.02	0.41
232:W7:13:DT:H2'	232:W7:14:DT:H72	2.02	0.41
232:W7:24:DT:H1'	232:W7:25:DC:H5'	2.02	0.41
233:W8:15:DG:C8	233:W8:16:DT:H72	2.55	0.41
5:A5:3:DG:C8	5:A5:4:DT:H72	2.55	0.41
6:A6:28:DG:H2''	6:A6:29:DC:OP2	2.19	0.41
7:A7:39:DT:H2'	7:A7:40:DT:H72	2.02	0.41
10:AA:27:DG:C8	216:U8:1:DT:H72	2.55	0.41
11:AB:16:DG:C8	11:AB:17:DT:H72	2.55	0.41
11:AB:181:DT:H2'	11:AB:182:DT:H72	2.02	0.41
11:AB:249:DT:H1'	11:AB:250:DC:H5'	2.02	0.41
11:AB:261:DG:C8	11:AB:262:DT:H72	2.55	0.41
11:AB:331:DT:H2'	11:AB:332:DT:H72	2.02	0.41
11:AB:362:DT:H2'	11:AB:363:DT:H72	2.02	0.41
11:AB:409:DG:H1'	11:AB:410:DT:H5'	2.00	0.41
11:AB:431:DT:H2'	11:AB:432:DT:H72	2.02	0.41
11:AB:506:DT:H2'	11:AB:507:DT:H72	2.02	0.41
11:AB:518:DT:H1'	11:AB:519:DC:H5'	2.02	0.41
11:AB:584:DG:C8	11:AB:585:DT:H72	2.55	0.41
11:AB:610:DT:H2'	11:AB:611:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:623:DG:C8	11:AB:624:DT:H72	2.55	0.41
11:AB:731:DG:H1'	11:AB:732:DT:H5'	2.00	0.41
11:AB:865:DC:OP1	11:AB:6788:DG:H2''	2.20	0.41
11:AB:952:DG:H1'	11:AB:953:DT:H5'	2.00	0.41
11:AB:964:DG:C8	11:AB:965:DT:H72	2.55	0.41
11:AB:1066:DT:H2'	11:AB:1067:DT:H72	2.02	0.41
11:AB:1070:DT:H2'	11:AB:1071:DT:H72	2.01	0.41
11:AB:1075:DT:H1'	11:AB:1076:DC:H5'	2.01	0.41
11:AB:1114:DG:H1'	11:AB:1115:DT:H5'	2.00	0.41
11:AB:1121:DT:H2'	11:AB:1122:DT:H72	2.02	0.41
11:AB:1153:DG:C8	11:AB:1154:DT:H72	2.55	0.41
11:AB:1302:DT:H2'	11:AB:1303:DT:H72	2.02	0.41
11:AB:1345:DT:H2'	11:AB:1346:DT:H72	2.02	0.41
11:AB:1437:DT:H2'	11:AB:1438:DT:H72	2.02	0.41
11:AB:1490:DT:H2'	11:AB:1491:DT:H72	2.02	0.41
11:AB:1563:DT:H2'	11:AB:1564:DT:H72	2.02	0.41
11:AB:1678:DT:H2'	11:AB:1679:DT:H72	2.02	0.41
11:AB:1711:DT:H2'	11:AB:1712:DT:H72	2.02	0.41
11:AB:1724:DG:C8	11:AB:1725:DT:H72	2.55	0.41
11:AB:1739:DG:C8	11:AB:1740:DT:H72	2.55	0.41
11:AB:1965:DT:H2'	11:AB:1966:DT:H72	2.02	0.41
11:AB:1984:DG:H1'	11:AB:1985:DT:H5'	2.00	0.41
11:AB:2056:DG:C8	11:AB:2057:DT:H72	2.55	0.41
11:AB:2057:DT:H2'	11:AB:5778:DT:H72	2.02	0.41
11:AB:2096:DG:C8	11:AB:2097:DT:H72	2.55	0.41
11:AB:2110:DG:C8	11:AB:2111:DT:H72	2.55	0.41
11:AB:2209:DG:C8	11:AB:2210:DT:H72	2.55	0.41
11:AB:2239:DG:C8	11:AB:2240:DT:H72	2.55	0.41
11:AB:2347:DT:H2'	11:AB:2348:DT:H72	2.01	0.41
11:AB:2348:DT:H2'	11:AB:2349:DT:H72	2.02	0.41
11:AB:2356:DG:C8	11:AB:2357:DT:H72	2.55	0.41
11:AB:2405:DT:H2'	11:AB:2406:DT:H72	2.02	0.41
11:AB:2517:DT:H2'	11:AB:2518:DT:H72	2.02	0.41
11:AB:2518:DT:H2'	11:AB:2519:DT:H72	2.02	0.41
11:AB:2520:DT:H1'	11:AB:2521:DC:H5'	2.02	0.41
11:AB:2681:DT:H2'	11:AB:2682:DT:H72	2.02	0.41
11:AB:2734:DG:C8	11:AB:2735:DT:H72	2.55	0.41
11:AB:2799:DG:C8	11:AB:2800:DT:H72	2.55	0.41
11:AB:2833:DG:C8	11:AB:2834:DT:H72	2.55	0.41
11:AB:3005:DT:H2'	11:AB:3006:DT:H72	2.02	0.41
11:AB:3040:DG:C8	11:AB:3041:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3084:DT:H1'	11:AB:3085:DC:H5'	2.02	0.41
11:AB:3182:DT:H2'	11:AB:3183:DT:H72	2.02	0.41
11:AB:3222:DT:H2'	11:AB:3223:DT:H72	2.02	0.41
11:AB:3223:DT:H2'	11:AB:3224:DT:H72	2.02	0.41
11:AB:3244:DT:H2'	11:AB:3245:DT:H72	2.02	0.41
11:AB:3329:DT:H2'	11:AB:3330:DT:H72	2.02	0.41
11:AB:3350:DT:H1'	11:AB:3351:DC:H5'	2.02	0.41
11:AB:3395:DG:C8	11:AB:3396:DT:H72	2.55	0.41
11:AB:3502:DG:C8	11:AB:3503:DT:H72	2.55	0.41
11:AB:3527:DT:H1'	11:AB:3528:DC:H5'	2.02	0.41
11:AB:3566:DG:H2''	11:AB:3567:DC:OP2	2.20	0.41
11:AB:3611:DG:C8	11:AB:3612:DT:H72	2.55	0.41
11:AB:3703:DG:C8	11:AB:3704:DT:H72	2.55	0.41
11:AB:3739:DG:C8	11:AB:3740:DT:H72	2.55	0.41
11:AB:3767:DT:H2'	11:AB:3768:DT:H72	2.02	0.41
11:AB:3818:DG:C8	11:AB:3819:DT:H72	2.55	0.41
11:AB:3824:DG:H1'	11:AB:3825:DT:H5'	2.00	0.41
11:AB:3847:DG:C8	11:AB:3848:DT:H72	2.55	0.41
11:AB:3869:DT:H2'	11:AB:3870:DT:H72	2.02	0.41
11:AB:3881:DT:H2'	11:AB:3882:DT:H72	2.02	0.41
11:AB:3906:DT:H2'	11:AB:3907:DT:H72	2.02	0.41
11:AB:3907:DT:H2'	11:AB:3908:DT:H72	2.02	0.41
11:AB:3911:DT:H1'	11:AB:3912:DC:H5'	2.02	0.41
11:AB:3942:DT:H1'	11:AB:3943:DC:H5'	2.02	0.41
11:AB:3967:DT:H1'	11:AB:3968:DC:H5'	2.02	0.41
11:AB:4094:DG:C8	11:AB:4095:DT:H72	2.55	0.41
11:AB:4125:DT:H2'	11:AB:4126:DT:H72	2.02	0.41
11:AB:4154:DG:H2''	11:AB:4155:DC:OP2	2.19	0.41
11:AB:4161:DT:H1'	11:AB:4162:DC:H5'	2.02	0.41
11:AB:4171:DT:H1'	11:AB:4172:DC:H5'	2.01	0.41
11:AB:4175:DG:H2''	11:AB:4176:DC:OP2	2.19	0.41
11:AB:4223:DT:H2'	11:AB:4224:DT:H72	2.02	0.41
11:AB:4236:DT:H2'	11:AB:4237:DT:H72	2.02	0.41
11:AB:4284:DG:H1'	11:AB:4285:DT:H5'	2.00	0.41
11:AB:4315:DG:C8	11:AB:4316:DT:H72	2.55	0.41
11:AB:4317:DT:H2'	11:AB:4318:DT:H72	2.02	0.41
11:AB:4394:DT:H1'	11:AB:4395:DC:H5'	2.02	0.41
11:AB:4681:DG:C8	11:AB:4682:DT:H72	2.55	0.41
11:AB:4769:DT:H2'	11:AB:4770:DT:H72	2.02	0.41
11:AB:4770:DT:H1'	11:AB:4771:DC:H5'	2.02	0.41
11:AB:4828:DT:H1'	11:AB:4829:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4905:DT:H2'	11:AB:4906:DT:H72	2.02	0.41
11:AB:4940:DT:H2'	11:AB:4941:DT:H72	2.02	0.41
11:AB:4953:DG:C8	11:AB:4954:DT:H72	2.55	0.41
11:AB:4967:DG:H2''	11:AB:4968:DC:OP2	2.20	0.41
11:AB:4996:DG:H2''	11:AB:4997:DC:OP2	2.20	0.41
11:AB:5124:DG:C8	11:AB:5125:DT:H72	2.55	0.41
11:AB:5290:DT:H2'	11:AB:5291:DT:H72	2.02	0.41
11:AB:5548:DG:H2''	11:AB:5549:DC:OP2	2.19	0.41
11:AB:5728:DG:C8	11:AB:5729:DT:H72	2.55	0.41
11:AB:5729:DT:H2'	11:AB:5730:DT:H72	2.02	0.41
11:AB:5770:DT:H2'	11:AB:5771:DT:H72	2.02	0.41
11:AB:5802:DG:C8	11:AB:5803:DT:H72	2.55	0.41
11:AB:5837:DG:C8	11:AB:5838:DT:H72	2.55	0.41
11:AB:5893:DG:C8	11:AB:5894:DT:H72	2.55	0.41
11:AB:5904:DT:H2'	11:AB:5905:DT:H72	2.02	0.41
11:AB:6001:DG:H1'	11:AB:6002:DT:H5'	2.00	0.41
11:AB:6019:DG:H1'	11:AB:6020:DT:H5'	2.00	0.41
11:AB:6046:DT:H2'	11:AB:6047:DT:H72	2.02	0.41
11:AB:6126:DG:C8	11:AB:6127:DT:H72	2.55	0.41
11:AB:6201:DT:H1'	11:AB:6202:DC:H5'	2.02	0.41
11:AB:6264:DT:H2'	11:AB:6265:DT:H72	2.02	0.41
11:AB:6277:DT:H1'	11:AB:6278:DC:H5'	2.01	0.41
11:AB:6353:DT:H1'	11:AB:6354:DC:H5'	2.01	0.41
11:AB:6422:DG:C8	11:AB:6423:DT:H72	2.55	0.41
11:AB:6423:DT:H2'	11:AB:6424:DT:H72	2.02	0.41
11:AB:6461:DT:H2'	11:AB:6462:DT:H72	2.02	0.41
11:AB:6557:DG:H1'	11:AB:6558:DT:H5'	2.00	0.41
11:AB:6592:DG:C8	11:AB:6593:DT:H72	2.55	0.41
11:AB:6597:DT:H2'	11:AB:6598:DT:H72	2.02	0.41
11:AB:6760:DG:C8	11:AB:6761:DT:H72	2.55	0.41
11:AB:6789:DG:C8	11:AB:6790:DT:H72	2.55	0.41
11:AB:6842:DG:C8	11:AB:6843:DT:H72	2.55	0.41
11:AB:6854:DT:H1'	11:AB:6855:DC:H5'	2.01	0.41
11:AB:6857:DG:H1'	11:AB:6858:DT:H5'	2.00	0.41
11:AB:7040:DG:C8	11:AB:7041:DT:H72	2.55	0.41
11:AB:7056:DT:H2'	11:AB:7057:DT:H72	2.01	0.41
11:AB:7091:DG:C8	11:AB:7092:DT:H72	2.55	0.41
11:AB:7169:DG:C8	11:AB:7170:DT:H72	2.55	0.41
11:AB:7171:DT:H1'	11:AB:7172:DC:H5'	2.02	0.41
12:AC:14:DT:H2'	12:AC:15:DT:H72	2.02	0.41
13:AD:22:DG:C8	13:AD:23:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B6:21:DT:H1'	19:B6:22:DC:H5'	2.02	0.41
21:B8:26:DG:C8	21:B8:27:DT:H72	2.55	0.41
22:B9:35:DT:H2'	228:VC:8:DT:H72	2.02	0.41
22:B9:47:DG:C8	22:B9:48:DT:H72	2.55	0.41
29:C5:16:DG:C8	29:C5:17:DT:H72	2.55	0.41
31:C7:16:DT:H1'	31:C7:17:DC:H5'	2.02	0.41
32:C8:8:DG:H2''	32:C8:9:DC:OP2	2.20	0.41
36:CD:19:DG:C8	36:CD:20:DT:H72	2.55	0.41
41:D6:27:DG:C8	41:D6:28:DT:H72	2.55	0.41
41:D6:46:DT:H1'	238:X9:1:DC:H5'	2.02	0.41
49:E2:15:DT:H2'	49:E2:16:DT:H72	2.02	0.41
49:E2:25:DT:H2'	49:E2:26:DT:H72	2.02	0.41
54:E8:14:DT:H1'	54:E8:15:DC:H5'	2.02	0.41
54:E8:30:DT:H1'	90:HC:17:DC:H5'	2.02	0.41
56:EA:16:DT:H2'	56:EA:17:DT:H72	2.02	0.41
62:F5:45:DT:H2'	62:F5:46:DT:H72	2.02	0.41
65:F8:5:DT:H1'	65:F8:6:DC:H5'	2.02	0.41
67:FA:22:DG:C8	67:FA:23:DT:H72	2.55	0.41
68:FC:5:DG:H2''	68:FC:6:DC:OP2	2.19	0.41
68:FC:11:DG:C8	68:FC:12:DT:H72	2.55	0.41
74:G6:9:DG:C8	74:G6:10:DT:H72	2.55	0.41
74:G6:14:DT:H2'	74:G6:15:DT:H72	2.02	0.41
77:G9:6:DT:H2'	77:G9:7:DT:H72	2.02	0.41
78:GA:3:DG:C8	78:GA:4:DT:H72	2.55	0.41
79:GC:12:DG:H2''	79:GC:13:DC:OP2	2.19	0.41
83:H3:17:DT:H2'	83:H3:18:DT:H72	2.02	0.41
86:H7:8:DT:H2'	86:H7:9:DT:H72	2.02	0.41
89:HA:15:DT:H2'	89:HA:16:DT:H72	2.01	0.41
91:HD:19:DG:H2''	91:HD:20:DC:OP2	2.20	0.41
91:HD:26:DG:C8	91:HD:27:DT:H72	2.55	0.41
92:I1:7:DT:H1'	92:I1:8:DC:H5'	2.02	0.41
94:I3:2:DG:C8	94:I3:3:DT:H72	2.55	0.41
95:I5:14:DG:H2''	138:M5:36:DC:OP1	2.20	0.41
95:I5:22:DG:C8	95:I5:23:DT:H72	2.55	0.41
96:I6:10:DG:C8	96:I6:11:DT:H72	2.55	0.41
96:I6:12:DT:H2'	96:I6:13:DT:H72	2.02	0.41
97:I7:11:DG:C8	97:I7:12:DT:H72	2.55	0.41
100:IA:7:DT:H1'	100:IA:8:DC:H5'	2.02	0.41
102:ID:8:DG:H1'	102:ID:9:DT:H5'	2.00	0.41
103:J1:26:DG:C8	103:J1:27:DT:H72	2.55	0.41
105:J3:7:DT:H2'	105:J3:8:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
114:K1:13:DT:H2'	114:K1:14:DT:H72	2.02	0.41
114:K1:14:DT:H2'	137:M3:22:DT:H72	2.02	0.41
117:K5:44:DG:C8	117:K5:45:DT:H72	2.55	0.41
119:K7:19:DT:H72	230:W3:14:DT:H2'	2.02	0.41
119:K7:29:DG:H1'	119:K7:30:DT:H5'	2.00	0.41
122:KA:29:DT:H2'	122:KA:30:DT:H72	2.02	0.41
124:KD:9:DT:H2'	124:KD:10:DT:H72	2.02	0.41
124:KD:23:DG:C8	132:L9:1:DT:H72	2.55	0.41
126:L2:17:DG:C8	126:L2:18:DT:H72	2.55	0.41
133:LA:6:DG:H2''	133:LA:7:DC:OP2	2.20	0.41
134:LC:19:DG:C8	134:LC:20:DT:H72	2.55	0.41
143:MA:30:DG:H2''	143:MA:31:DC:OP2	2.20	0.41
145:MD:26:DT:H1'	145:MD:27:DC:H5'	2.01	0.41
146:N2:3:DG:C8	146:N2:4:DT:H72	2.55	0.41
154:NC:18:DT:H72	189:R8:21:DT:H2'	2.02	0.41
154:NC:24:DG:H2''	192:RC:21:DC:OP1	2.20	0.41
155:ND:10:DG:C8	155:ND:11:DT:H72	2.55	0.41
156:O2:1:DT:H72	166:P2:16:DT:H2'	2.02	0.41
159:O6:11:DG:C8	159:O6:12:DT:H72	2.55	0.41
161:O8:49:DT:H1'	161:O8:50:DC:H5'	2.02	0.41
163:OA:13:DT:H1'	163:OA:14:DC:H5'	2.02	0.41
166:P2:6:DG:C8	166:P2:7:DT:H72	2.55	0.41
166:P2:9:DG:H2''	166:P2:10:DC:OP2	2.20	0.41
167:P3:13:DT:H2'	167:P3:14:DT:H72	2.02	0.41
167:P3:15:DT:H1'	167:P3:16:DC:H5'	2.02	0.41
169:P6:12:DG:C8	169:P6:13:DT:H72	2.55	0.41
172:P9:23:DT:H2'	172:P9:24:DT:H72	2.02	0.41
173:PA:18:DG:C8	173:PA:19:DT:H72	2.55	0.41
174:PC:23:DG:H2''	174:PC:24:DC:OP2	2.20	0.41
178:Q5:36:DT:H1'	178:Q5:37:DC:H5'	2.02	0.41
189:R8:12:DT:H2'	189:R8:13:DT:H72	2.02	0.41
190:R9:2:DT:H2'	190:R9:3:DT:H72	2.02	0.41
192:RC:26:DT:H1'	192:RC:27:DC:H5'	2.02	0.41
194:S2:21:DT:H1'	194:S2:22:DC:H5'	2.02	0.41
204:T3:31:DG:C8	204:T3:32:DT:H72	2.55	0.41
207:T8:7:DG:C8	207:T8:8:DT:H72	2.55	0.41
207:T8:19:DG:C8	207:T8:20:DT:H72	2.55	0.41
213:U3:6:DG:C8	213:U3:7:DT:H72	2.55	0.41
214:U5:38:DG:C8	214:U5:39:DT:H72	2.55	0.41
218:UA:2:DT:H2'	218:UA:3:DT:H72	2.02	0.41
219:UC:11:DT:H2'	219:UC:12:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
219:UC:18:DG:C8	219:UC:19:DT:H72	2.55	0.41
220:UD:2:DT:H2'	220:UD:3:DT:H72	2.02	0.41
223:V5:40:DT:H2'	223:V5:41:DT:H72	2.02	0.41
231:W5:29:DT:H2'	231:W5:30:DT:H72	2.02	0.41
232:W7:23:DG:C8	232:W7:24:DT:H72	2.55	0.41
1:A1:53:DG:C8	1:A1:54:DT:H72	2.55	0.41
5:A5:12:DT:H2'	5:A5:13:DT:H72	2.02	0.41
7:A7:19:DT:H2'	7:A7:20:DT:H72	2.02	0.41
8:A8:12:DT:H2'	8:A8:13:DT:H72	2.02	0.41
8:A8:16:DG:C8	126:L2:21:DT:H72	2.55	0.41
11:AB:6:DT:H1'	11:AB:7:DC:H5'	2.01	0.41
11:AB:135:DT:H2'	11:AB:136:DT:H72	2.02	0.41
11:AB:165:DT:H2'	11:AB:166:DT:H72	2.02	0.41
11:AB:172:DT:H2'	11:AB:173:DT:H72	2.02	0.41
11:AB:214:DT:H2'	11:AB:215:DT:H72	2.02	0.41
11:AB:224:DT:H2'	11:AB:225:DT:H72	2.02	0.41
11:AB:311:DT:H1'	11:AB:312:DC:H5'	2.02	0.41
11:AB:541:DG:C8	11:AB:542:DT:H72	2.55	0.41
11:AB:575:DT:H1'	11:AB:576:DC:H5'	2.02	0.41
11:AB:698:DT:H2'	11:AB:699:DT:H72	2.02	0.41
11:AB:770:DT:H2'	11:AB:771:DT:H72	2.02	0.41
11:AB:772:DT:H1'	11:AB:773:DC:H5'	2.02	0.41
11:AB:777:DT:H1'	11:AB:778:DC:H5'	2.02	0.41
11:AB:876:DT:H1'	11:AB:877:DC:H5'	2.02	0.41
11:AB:1095:DG:H2''	11:AB:1096:DC:OP2	2.20	0.41
11:AB:1129:DT:H2'	11:AB:1130:DT:H72	2.02	0.41
11:AB:1138:DG:C8	11:AB:1139:DT:H72	2.55	0.41
11:AB:1336:DG:C8	11:AB:1337:DT:H72	2.55	0.41
11:AB:1339:DG:H1'	11:AB:1340:DT:H5'	2.00	0.41
11:AB:1349:DG:C8	11:AB:1350:DT:H72	2.55	0.41
11:AB:1352:DT:H1'	11:AB:1353:DC:H5'	2.02	0.41
11:AB:1380:DG:C8	11:AB:1381:DT:H72	2.55	0.41
11:AB:1391:DG:C8	11:AB:1392:DT:H72	2.55	0.41
11:AB:1408:DG:C8	11:AB:1409:DT:H72	2.55	0.41
11:AB:1470:DG:C8	11:AB:1471:DT:H72	2.55	0.41
11:AB:1491:DT:H1'	11:AB:1492:DC:H5'	2.02	0.41
11:AB:1507:DT:H2'	11:AB:1508:DT:H72	2.02	0.41
11:AB:1524:DT:H1'	11:AB:1525:DC:H5'	2.02	0.41
11:AB:1527:DG:H1'	11:AB:1528:DT:H5'	2.01	0.41
11:AB:1706:DG:H2''	11:AB:1707:DC:OP2	2.20	0.41
11:AB:1710:DT:H2'	11:AB:1711:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1741:DT:H2'	11:AB:1742:DT:H72	2.02	0.41
11:AB:1831:DT:H2'	11:AB:1832:DT:H72	2.02	0.41
11:AB:1853:DG:C8	11:AB:1854:DT:H72	2.55	0.41
11:AB:1873:DT:H2'	11:AB:1874:DT:H72	2.02	0.41
11:AB:1952:DT:H2'	11:AB:1953:DT:H72	2.02	0.41
11:AB:1964:DT:H2'	11:AB:1965:DT:H72	2.02	0.41
11:AB:2034:DT:H72	11:AB:5857:DT:H2'	2.02	0.41
11:AB:2089:DT:H2'	11:AB:2090:DT:H72	2.02	0.41
11:AB:2131:DT:H2'	11:AB:2132:DT:H72	2.02	0.41
11:AB:2133:DT:H2'	11:AB:2134:DT:H72	2.02	0.41
11:AB:2150:DA:H2'	11:AB:2151:DT:H72	2.00	0.41
11:AB:2221:DT:H2'	11:AB:2222:DT:H72	2.02	0.41
11:AB:2298:DG:C8	11:AB:2299:DT:H72	2.55	0.41
11:AB:2418:DG:C8	11:AB:2419:DT:H72	2.55	0.41
11:AB:2426:DT:H2'	11:AB:2427:DT:H72	2.02	0.41
11:AB:2452:DG:C8	11:AB:2453:DT:H72	2.55	0.41
11:AB:2460:DT:H2'	11:AB:2461:DT:H72	2.02	0.41
11:AB:2526:DG:C8	11:AB:2527:DT:H72	2.55	0.41
11:AB:2595:DG:C8	11:AB:2596:DT:H72	2.55	0.41
11:AB:2626:DT:H2'	11:AB:2627:DT:H72	2.02	0.41
11:AB:2649:DT:H1'	11:AB:2650:DC:H5'	2.02	0.41
11:AB:2757:DT:H2'	11:AB:2758:DT:H72	2.02	0.41
11:AB:2800:DT:H2'	11:AB:2801:DT:H72	2.02	0.41
11:AB:2818:DG:H1'	11:AB:2819:DT:H5'	2.00	0.41
11:AB:2821:DT:H2'	11:AB:2822:DT:H72	2.02	0.41
11:AB:2845:DT:H1'	11:AB:2846:DC:H5'	2.02	0.41
11:AB:2962:DG:C8	11:AB:2963:DT:H72	2.55	0.41
11:AB:2978:DT:H2'	11:AB:2979:DT:H72	2.02	0.41
11:AB:3000:DT:H2'	11:AB:3001:DT:H72	2.02	0.41
11:AB:3004:DT:H2'	11:AB:3005:DT:H72	2.02	0.41
11:AB:3044:DG:C8	11:AB:3045:DT:H72	2.55	0.41
11:AB:3063:DT:H1'	11:AB:3064:DC:H5'	2.02	0.41
11:AB:3103:DT:H2'	11:AB:3104:DT:H72	2.02	0.41
11:AB:3152:DG:C8	11:AB:3153:DT:H72	2.55	0.41
11:AB:3232:DG:C8	11:AB:3233:DT:H72	2.55	0.41
11:AB:3235:DG:C8	11:AB:3236:DT:H72	2.55	0.41
11:AB:3277:DG:C8	11:AB:3278:DT:H72	2.55	0.41
11:AB:3287:DT:H2'	11:AB:3288:DT:H72	2.02	0.41
11:AB:3307:DG:C8	11:AB:3308:DT:H72	2.55	0.41
11:AB:3308:DT:H2'	11:AB:3309:DT:H72	2.02	0.41
11:AB:3314:DG:C8	11:AB:3315:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3397:DT:H2'	11:AB:3398:DT:H72	2.02	0.41
11:AB:3435:DT:H2'	11:AB:3436:DT:H72	2.02	0.41
11:AB:3440:DT:H2'	11:AB:3441:DT:H72	2.02	0.41
11:AB:3503:DT:H2'	11:AB:3504:DT:H72	2.02	0.41
11:AB:3533:DT:H2'	11:AB:3534:DT:H72	2.02	0.41
11:AB:3717:DT:H1'	11:AB:3718:DC:H5'	2.02	0.41
11:AB:3720:DG:H2''	11:AB:4477:DC:OP1	2.20	0.41
11:AB:3737:DA:H2'	11:AB:3738:DT:H72	2.00	0.41
11:AB:3761:DT:H2'	11:AB:3762:DT:H72	2.02	0.41
11:AB:3766:DG:C8	11:AB:3767:DT:H72	2.55	0.41
11:AB:3994:DT:H2'	11:AB:3995:DT:H72	2.02	0.41
11:AB:4040:DT:H1'	11:AB:4041:DC:H5'	2.02	0.41
11:AB:4244:DT:H2'	11:AB:4245:DT:H72	2.02	0.41
11:AB:4274:DT:H2'	11:AB:4275:DT:H72	2.02	0.41
11:AB:4278:DG:C8	11:AB:4279:DT:H72	2.55	0.41
11:AB:4355:DG:C8	11:AB:4356:DT:H72	2.55	0.41
11:AB:4426:DT:H2'	11:AB:4427:DT:H72	2.02	0.41
11:AB:4459:DT:H2'	11:AB:4460:DT:H72	2.02	0.41
11:AB:4574:DG:H2''	11:AB:4575:DC:OP2	2.19	0.41
11:AB:4613:DT:H2'	11:AB:4614:DT:H72	2.02	0.41
11:AB:4665:DG:H2''	11:AB:4666:DC:OP2	2.20	0.41
11:AB:4720:DT:H2'	11:AB:4721:DT:H72	2.02	0.41
11:AB:4743:DG:C8	11:AB:4744:DT:H72	2.55	0.41
11:AB:5093:DG:C8	11:AB:5094:DT:H72	2.55	0.41
11:AB:5163:DT:H2'	11:AB:5164:DT:H72	2.02	0.41
11:AB:5179:DG:C8	11:AB:5180:DT:H72	2.55	0.41
11:AB:5208:DG:C8	11:AB:5209:DT:H72	2.55	0.41
11:AB:5215:DG:H2''	11:AB:5216:DC:OP2	2.20	0.41
11:AB:5242:DG:H2''	11:AB:5243:DC:OP2	2.20	0.41
11:AB:5269:DT:H2'	11:AB:5270:DT:H72	2.02	0.41
11:AB:5279:DG:C8	11:AB:5280:DT:H72	2.55	0.41
11:AB:5363:DT:H2'	11:AB:5364:DT:H72	2.02	0.41
11:AB:5404:DT:H1'	11:AB:5405:DC:H5'	2.02	0.41
11:AB:5413:DG:C8	11:AB:5414:DT:H72	2.55	0.41
11:AB:5449:DT:H2'	11:AB:5450:DT:H72	2.02	0.41
11:AB:5521:DG:H2''	11:AB:5522:DC:OP2	2.20	0.41
11:AB:5557:DG:C8	11:AB:5558:DT:H72	2.55	0.41
11:AB:5581:DT:H2'	11:AB:5582:DT:H72	2.02	0.41
11:AB:5639:DT:H2'	11:AB:5640:DT:H72	2.02	0.41
11:AB:5735:DG:C8	11:AB:5736:DT:H72	2.55	0.41
11:AB:5914:DG:C8	11:AB:5915:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5968:DA:H2'	11:AB:5969:DT:H72	2.00	0.41
11:AB:5983:DT:H1'	11:AB:5984:DC:H5'	2.02	0.41
11:AB:6137:DG:H1'	11:AB:6138:DT:H5'	2.00	0.41
11:AB:6143:DT:H2'	11:AB:6144:DT:H72	2.02	0.41
11:AB:6245:DG:H1'	11:AB:6246:DT:H5'	2.00	0.41
11:AB:6357:DG:C8	11:AB:6358:DT:H72	2.55	0.41
11:AB:6581:DG:C8	11:AB:6582:DT:H72	2.55	0.41
11:AB:6598:DT:H2'	11:AB:6599:DT:H72	2.02	0.41
11:AB:6667:DT:H2'	11:AB:6668:DT:H72	2.02	0.41
11:AB:6672:DG:C8	11:AB:6673:DT:H72	2.55	0.41
11:AB:6817:DG:H1'	11:AB:6818:DT:H5'	2.00	0.41
11:AB:6864:DT:H2'	11:AB:6865:DT:H72	2.02	0.41
11:AB:6989:DT:H2'	11:AB:6990:DT:H72	2.02	0.41
11:AB:7070:DG:C8	11:AB:7071:DT:H72	2.55	0.41
11:AB:7087:DT:H2'	11:AB:7088:DT:H72	2.02	0.41
11:AB:7136:DG:C8	11:AB:7137:DT:H72	2.55	0.41
11:AB:7157:DG:C8	11:AB:7158:DT:H72	2.55	0.41
11:AB:7183:DT:H2'	11:AB:7184:DT:H72	2.02	0.41
11:AB:7185:DT:H1'	11:AB:7186:DC:H5'	2.02	0.41
17:B4:11:DG:H2'	17:B4:12:DC:OP2	2.19	0.41
18:B5:35:DT:H2'	18:B5:36:DT:H72	2.02	0.41
21:B8:6:DT:H2'	21:B8:7:DT:H72	2.02	0.41
22:B9:34:DG:C8	22:B9:35:DT:H72	2.55	0.41
23:BA:26:DT:H1'	23:BA:27:DC:H5'	2.02	0.41
26:C1:4:DG:C8	26:C1:5:DT:H72	2.55	0.41
26:C1:12:DT:H2'	26:C1:13:DT:H72	2.02	0.41
29:C5:7:DA:H2'	29:C5:8:DT:H72	2.00	0.41
30:C6:27:DT:H2'	30:C6:28:DT:H72	2.02	0.41
33:C9:2:DG:C8	33:C9:3:DT:H72	2.55	0.41
33:C9:3:DT:H1'	33:C9:4:DC:H5'	2.02	0.41
33:C9:5:DC:H5'	145:MD:58:DT:H1'	2.02	0.41
36:CD:16:DT:H2'	36:CD:17:DT:H72	2.02	0.41
39:D3:10:DG:C8	39:D3:11:DT:H72	2.55	0.41
48:E1:21:DG:C8	48:E1:22:DT:H72	2.55	0.41
48:E1:26:DG:C8	48:E1:27:DT:H72	2.55	0.41
49:E2:23:DT:H2'	96:I6:1:DT:H72	2.02	0.41
51:E5:16:DG:H1'	51:E5:17:DT:H5'	2.00	0.41
58:ED:9:DG:C8	58:ED:10:DT:H72	2.55	0.41
62:F5:9:DT:H2'	62:F5:10:DT:H72	2.02	0.41
62:F5:13:DT:H1'	62:F5:14:DC:H5'	2.02	0.41
64:F7:21:DT:H1'	64:F7:22:DC:H5'	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:F9:16:DG:C8	66:F9:17:DT:H72	2.55	0.41
67:FA:23:DT:H2'	67:FA:24:DT:H72	2.02	0.41
68:FC:17:DG:H2''	68:FC:18:DC:OP2	2.20	0.41
70:G1:13:DT:H1'	70:G1:14:DC:H5'	2.02	0.41
72:G3:9:DT:H1'	72:G3:10:DC:H5'	2.02	0.41
85:H6:19:DT:H2'	85:H6:20:DT:H72	2.02	0.41
89:HA:6:DT:H2'	89:HA:7:DT:H72	2.02	0.41
95:I5:34:DG:C8	95:I5:35:DT:H72	2.55	0.41
97:I7:14:DG:C8	97:I7:15:DT:H72	2.55	0.41
99:I9:21:DG:H2''	99:I9:22:DC:OP2	2.19	0.41
105:J3:20:DT:H2'	130:L7:50:DT:H72	2.02	0.41
105:J3:25:DT:H2'	105:J3:26:DT:H72	2.02	0.41
107:J6:26:DT:H1'	107:J6:27:DC:H5'	2.01	0.41
108:J7:36:DG:C8	108:J7:37:DT:H72	2.55	0.41
110:J9:18:DG:H2''	110:J9:19:DC:OP2	2.20	0.41
112:JC:12:DG:H2''	112:JC:13:DC:OP2	2.19	0.41
112:JC:20:DT:H2'	112:JC:21:DT:H72	2.01	0.41
118:K6:20:DT:H2'	118:K6:21:DT:H72	2.02	0.41
119:K7:41:DT:H2'	119:K7:42:DT:H72	2.02	0.41
125:L1:45:DG:C8	125:L1:46:DT:H72	2.55	0.41
127:L3:8:DA:H2'	127:L3:9:DT:H72	2.00	0.41
128:L5:8:DT:H2'	128:L5:9:DT:H72	2.02	0.41
130:L7:10:DG:C8	130:L7:11:DT:H72	2.55	0.41
133:LA:4:DT:H2'	133:LA:5:DT:H72	2.02	0.41
135:LD:21:DA:H2'	135:LD:22:DT:H72	2.00	0.41
139:M6:9:DT:H1'	139:M6:10:DC:H5'	2.02	0.41
140:M7:5:DT:H1'	140:M7:6:DC:H5'	2.02	0.41
140:M7:10:DT:H2'	206:T7:11:DT:H72	2.02	0.41
144:MC:13:DG:C8	144:MC:14:DT:H72	2.55	0.41
144:MC:21:DT:H2'	144:MC:22:DT:H72	2.02	0.41
147:N3:15:DT:H2'	147:N3:16:DT:H72	2.02	0.41
148:N5:33:DT:H2'	148:N5:34:DT:H72	2.02	0.41
149:N6:4:DT:H2'	149:N6:5:DT:H72	2.02	0.41
149:N6:24:DG:C8	149:N6:25:DT:H72	2.55	0.41
151:N8:13:DT:H2'	151:N8:14:DT:H72	2.02	0.41
156:O2:59:DG:C8	156:O2:60:DT:H72	2.55	0.41
161:O8:14:DG:C8	161:O8:15:DT:H72	2.55	0.41
164:OC:19:DT:H1'	164:OC:20:DC:H5'	2.02	0.41
164:OC:26:DG:C8	164:OC:27:DT:H72	2.55	0.41
167:P3:12:DT:H2'	167:P3:13:DT:H72	2.02	0.41
172:P9:5:DT:H2'	172:P9:6:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
173:PA:16:DT:H2'	173:PA:17:DT:H72	2.02	0.41
177:Q3:12:DT:H2'	177:Q3:13:DT:H72	2.02	0.41
178:Q5:24:DG:C8	178:Q5:25:DT:H72	2.55	0.41
182:QA:24:DG:C8	182:QA:25:DT:H72	2.55	0.41
183:QC:25:DT:H2'	183:QC:26:DT:H72	2.02	0.41
195:S3:19:DT:H2'	195:S3:20:DT:H72	2.02	0.41
200:SA:17:DT:H2'	200:SA:18:DT:H72	2.02	0.41
201:SC:3:DT:H2'	201:SC:4:DT:H72	2.02	0.41
205:T5:19:DT:H1'	205:T5:20:DC:H5'	2.02	0.41
210:TC:15:DT:H1'	210:TC:16:DC:H5'	2.02	0.41
218:UA:3:DT:H2'	218:UA:4:DT:H72	2.02	0.41
220:UD:9:DG:H2''	220:UD:10:DC:OP2	2.20	0.41
220:UD:11:DT:H2'	220:UD:12:DT:H72	2.02	0.41
222:V3:6:DT:H2'	222:V3:7:DT:H72	2.02	0.41
227:VA:24:DG:C8	227:VA:25:DT:H72	2.55	0.41
230:W3:13:DG:C8	230:W3:14:DT:H72	2.55	0.41
230:W3:29:DA:H2'	230:W3:30:DT:H72	2.00	0.41
231:W5:13:DG:H2''	231:W5:14:DC:OP2	2.20	0.41
235:WD:12:DG:C8	235:WD:13:DT:H72	2.55	0.41
238:X9:39:DA:H2'	238:X9:40:DT:H72	2.00	0.41
4:A4:25:DG:C8	4:A4:26:DT:H72	2.55	0.41
11:AB:144:DT:H2'	11:AB:145:DT:H72	2.02	0.41
11:AB:164:DA:H2'	11:AB:165:DT:H72	2.00	0.41
11:AB:314:DG:H1'	11:AB:315:DT:H5'	2.00	0.41
11:AB:375:DG:C8	11:AB:376:DT:H72	2.55	0.41
11:AB:572:DT:H2'	11:AB:573:DT:H72	2.02	0.41
11:AB:652:DT:H2'	11:AB:653:DT:H72	2.02	0.41
11:AB:802:DT:H2'	11:AB:803:DT:H72	2.02	0.41
11:AB:974:DT:H2'	11:AB:975:DT:H72	2.02	0.41
11:AB:1046:DG:C8	11:AB:1047:DT:H72	2.55	0.41
11:AB:1188:DG:C8	11:AB:1189:DT:H72	2.55	0.41
11:AB:1344:DT:H2'	11:AB:1345:DT:H72	2.02	0.41
11:AB:1457:DT:H2'	11:AB:1458:DT:H72	2.02	0.41
11:AB:1472:DT:H2'	11:AB:1473:DT:H72	2.02	0.41
11:AB:1589:DG:C8	11:AB:1590:DT:H72	2.55	0.41
11:AB:1596:DA:H2'	11:AB:1597:DT:H72	2.00	0.41
11:AB:1619:DT:H2'	11:AB:1620:DT:H72	2.02	0.41
11:AB:1656:DT:H1'	11:AB:1657:DC:H5'	2.02	0.41
11:AB:1689:DT:H2'	11:AB:1690:DT:H72	2.02	0.41
11:AB:1780:DT:H2'	11:AB:1781:DT:H72	2.02	0.41
11:AB:1981:DG:H2''	11:AB:1982:DC:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2006:DT:H72	11:AB:5913:DT:H2'	2.02	0.41
11:AB:2023:DT:H2'	11:AB:2024:DT:H72	2.02	0.41
11:AB:2038:DG:C8	11:AB:2039:DT:H72	2.55	0.41
11:AB:2097:DT:H2'	11:AB:2098:DT:H72	2.02	0.41
11:AB:2210:DT:H1'	11:AB:2211:DC:H5'	2.02	0.41
11:AB:2235:DG:C8	11:AB:2236:DT:H72	2.55	0.41
11:AB:2335:DT:H2'	11:AB:2336:DT:H72	2.02	0.41
11:AB:2365:DT:H72	11:AB:5436:DT:H2'	2.02	0.41
11:AB:2366:DG:C8	11:AB:2367:DT:H72	2.55	0.41
11:AB:2461:DT:H1'	11:AB:2462:DC:H5'	2.02	0.41
11:AB:2657:DT:H1'	11:AB:2658:DC:H5'	2.02	0.41
11:AB:2849:DT:H2'	11:AB:2850:DT:H72	2.02	0.41
11:AB:2893:DG:H1'	11:AB:2894:DT:H5'	2.00	0.41
11:AB:2898:DT:H2'	11:AB:2899:DT:H72	2.02	0.41
11:AB:2932:DG:C8	11:AB:2933:DT:H72	2.55	0.41
11:AB:3022:DG:H2''	11:AB:3023:DC:OP2	2.20	0.41
11:AB:3142:DG:H2''	11:AB:3143:DC:OP2	2.20	0.41
11:AB:3148:DT:H1'	11:AB:3149:DC:H5'	2.02	0.41
11:AB:3163:DG:H1'	11:AB:3164:DT:H5'	2.00	0.41
11:AB:3221:DA:H2'	11:AB:3222:DT:H72	2.00	0.41
11:AB:3510:DT:H2'	11:AB:3511:DT:H72	2.02	0.41
11:AB:3521:DG:H1'	11:AB:3522:DT:H5'	2.00	0.41
11:AB:3562:DG:C8	11:AB:3563:DT:H72	2.55	0.41
11:AB:3579:DT:H72	11:AB:4754:DT:H2'	2.02	0.41
11:AB:3678:DT:H2'	11:AB:4519:DT:H72	2.02	0.41
11:AB:3743:DG:C8	11:AB:3744:DT:H72	2.55	0.41
11:AB:3769:DG:H2''	11:AB:3770:DC:OP2	2.20	0.41
11:AB:3792:DT:H1'	11:AB:3793:DC:H5'	2.02	0.41
11:AB:3926:DA:H2'	11:AB:3927:DT:H72	2.00	0.41
11:AB:4141:DG:H2''	11:AB:4142:DC:OP2	2.20	0.41
11:AB:4222:DT:H2'	11:AB:4223:DT:H72	2.02	0.41
11:AB:4273:DT:H2'	11:AB:4274:DT:H72	2.02	0.41
11:AB:4338:DG:C8	11:AB:4339:DT:H72	2.55	0.41
11:AB:4348:DT:H2'	11:AB:4349:DT:H72	2.02	0.41
11:AB:4363:DT:H2'	11:AB:4364:DT:H72	2.02	0.41
11:AB:4424:DT:H2'	11:AB:4425:DT:H72	2.02	0.41
11:AB:4428:DG:H2''	11:AB:4429:DC:OP2	2.20	0.41
11:AB:4501:DT:H1'	11:AB:4502:DC:H5'	2.01	0.41
11:AB:4525:DG:H2''	11:AB:4526:DC:OP2	2.20	0.41
11:AB:4859:DG:H2''	11:AB:4860:DC:OP2	2.20	0.41
11:AB:4865:DG:H2''	11:AB:4866:DC:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5032:DT:H1'	11:AB:5033:DC:H5'	2.02	0.41
11:AB:5205:DG:C8	11:AB:5206:DT:H72	2.55	0.41
11:AB:5384:DT:H2'	11:AB:5385:DT:H72	2.02	0.41
11:AB:5462:DT:H2'	11:AB:5463:DT:H72	2.02	0.41
11:AB:5565:DT:H1'	11:AB:5566:DC:H5'	2.02	0.41
11:AB:5746:DT:H2'	11:AB:5747:DT:H72	2.02	0.41
11:AB:5767:DT:H2'	11:AB:5768:DT:H72	2.02	0.41
11:AB:5819:DT:H2'	11:AB:5820:DT:H72	2.02	0.41
11:AB:5889:DA:H1'	11:AB:5890:DC:H5'	2.03	0.41
11:AB:5917:DT:H1'	11:AB:5918:DC:H5'	2.02	0.41
11:AB:5944:DT:H1'	11:AB:5945:DC:H5'	2.02	0.41
11:AB:5997:DT:H2'	11:AB:5998:DT:H72	2.02	0.41
11:AB:6076:DT:H1'	11:AB:6077:DC:H5'	2.02	0.41
11:AB:6094:DT:H2'	11:AB:6095:DT:H72	2.02	0.41
11:AB:6184:DT:H2'	11:AB:6185:DT:H72	2.02	0.41
11:AB:6215:DT:H1'	11:AB:6216:DC:H5'	2.02	0.41
11:AB:6220:DT:H2'	11:AB:6221:DT:H72	2.02	0.41
11:AB:6270:DG:C8	11:AB:6271:DT:H72	2.55	0.41
11:AB:6291:DG:C8	11:AB:6292:DT:H72	2.55	0.41
11:AB:6349:DG:H2'	11:AB:6350:DC:OP2	2.20	0.41
11:AB:6450:DT:H2'	11:AB:6451:DT:H72	2.02	0.41
11:AB:6487:DT:H2'	11:AB:6488:DT:H72	2.02	0.41
11:AB:6502:DT:H1'	11:AB:6503:DC:H5'	2.02	0.41
11:AB:6709:DG:H1'	11:AB:6710:DT:H5'	2.00	0.41
11:AB:6715:DG:C8	11:AB:6716:DT:H72	2.55	0.41
11:AB:6737:DT:H2'	11:AB:6738:DT:H72	2.02	0.41
11:AB:6765:DG:C8	11:AB:6766:DT:H72	2.55	0.41
11:AB:6771:DT:H2'	11:AB:6772:DT:H72	2.02	0.41
11:AB:6901:DG:C8	11:AB:6902:DT:H72	2.55	0.41
11:AB:6945:DT:H2'	11:AB:6946:DT:H72	2.02	0.41
11:AB:7001:DT:H2'	11:AB:7002:DT:H72	2.02	0.41
11:AB:7006:DA:H2'	11:AB:7007:DT:H72	2.00	0.41
11:AB:7020:DT:H1'	11:AB:7021:DC:H5'	2.02	0.41
11:AB:7035:DT:H2'	11:AB:7036:DT:H72	2.02	0.41
11:AB:7148:DT:H1'	11:AB:7149:DC:H5'	2.02	0.41
12:AC:15:DT:H2'	12:AC:16:DT:H72	2.02	0.41
14:B1:7:DG:C8	117:K5:26:DT:H72	2.55	0.41
16:B3:21:DA:H2'	16:B3:22:DT:H72	2.00	0.41
18:B5:20:DT:H2'	18:B5:21:DT:H72	2.02	0.41
20:B7:15:DT:H2'	20:B7:16:DT:H72	2.02	0.41
31:C7:11:DT:H2'	31:C7:12:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:C9:14:DG:C8	33:C9:15:DT:H72	2.55	0.41
34:CA:17:DG:C8	34:CA:18:DT:H72	2.55	0.41
37:D1:31:DG:H2''	37:D1:32:DC:OP2	2.20	0.41
45:DA:9:DG:C8	45:DA:10:DT:H72	2.55	0.41
49:E2:11:DT:H2'	49:E2:12:DT:H72	2.02	0.41
51:E5:31:DT:H2'	51:E5:32:DT:H72	2.02	0.41
52:E6:16:DG:H2''	52:E6:17:DC:OP2	2.20	0.41
54:E8:10:DA:H2'	54:E8:11:DT:H72	2.00	0.41
54:E8:11:DT:H2'	54:E8:12:DT:H72	2.02	0.41
54:E8:12:DT:H2'	54:E8:13:DT:H72	2.02	0.41
60:F2:31:DT:H2'	60:F2:32:DT:H72	2.02	0.41
63:F6:9:DG:H2''	63:F6:10:DC:OP2	2.20	0.41
64:F7:5:DA:H2'	64:F7:6:DT:H72	2.00	0.41
65:F8:8:DT:H1'	87:H8:18:DC:H5'	2.02	0.41
78:GA:9:DT:H2'	78:GA:10:DT:H72	2.02	0.41
80:GD:16:DG:C8	80:GD:17:DT:H72	2.55	0.41
82:H2:49:DA:H2'	82:H2:50:DT:H72	2.00	0.41
83:H3:37:DG:H2''	83:H3:38:DC:OP2	2.20	0.41
85:H6:1:DA:H2'	85:H6:2:DT:H72	2.00	0.41
88:H9:27:DG:H2''	88:H9:28:DC:OP2	2.20	0.41
93:I2:36:DG:C8	93:I2:37:DT:H72	2.55	0.41
93:I2:38:DG:C8	93:I2:39:DT:H72	2.55	0.41
101:IC:7:DA:H2'	101:IC:8:DT:H72	2.00	0.41
101:IC:8:DT:H2'	101:IC:9:DT:H72	2.02	0.41
101:IC:26:DT:H1'	101:IC:27:DC:H5'	2.02	0.41
105:J3:19:DT:H2'	105:J3:20:DT:H72	2.02	0.41
109:J8:50:DA:H2'	109:J8:51:DT:H72	2.00	0.41
118:K6:9:DG:H2''	118:K6:10:DC:OP2	2.20	0.41
120:K8:19:DT:H2'	120:K8:20:DT:H72	2.02	0.41
125:L1:30:DT:H2'	125:L1:31:DT:H72	2.02	0.41
127:L3:1:DC:H5'	220:UD:23:DT:H1'	2.02	0.41
127:L3:9:DT:H2'	127:L3:10:DT:H72	2.02	0.41
133:LA:9:DT:H2'	133:LA:10:DT:H72	2.02	0.41
137:M3:27:DT:H2'	137:M3:28:DT:H72	2.02	0.41
140:M7:1:DT:H1'	140:M7:2:DC:H5'	2.02	0.41
145:MD:11:DT:H1'	145:MD:12:DC:H5'	2.02	0.41
145:MD:21:DT:H1'	145:MD:22:DC:H5'	2.02	0.41
152:N9:41:DG:H1'	152:N9:42:DT:H5'	2.00	0.41
157:O3:23:DT:H2'	157:O3:24:DT:H72	2.02	0.41
160:O7:8:DG:C8	160:O7:9:DT:H72	2.55	0.41
161:O8:37:DT:H1'	161:O8:38:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
161:O8:57:DG:H1'	161:O8:58:DT:H5'	2.00	0.41
165:OD:1:DC:H5'	238:X9:17:DT:H1'	2.02	0.41
166:P2:15:DT:H2'	166:P2:16:DT:H72	2.02	0.41
171:P8:9:DT:H2'	171:P8:10:DT:H72	2.01	0.41
180:Q8:26:DG:H1'	180:Q8:27:DT:H5'	2.00	0.41
182:QA:6:DG:C8	182:QA:7:DT:H72	2.55	0.41
183:QC:24:DT:H2'	183:QC:25:DT:H72	2.02	0.41
187:R5:40:DT:H1'	187:R5:41:DC:H5'	2.02	0.41
188:R7:3:DG:C8	188:R7:4:DT:H72	2.55	0.41
198:S8:9:DT:H2'	198:S8:10:DT:H72	2.02	0.41
198:S8:25:DT:H2'	198:S8:26:DT:H72	2.02	0.41
199:S9:17:DT:H72	226:V9:4:DG:C8	2.55	0.41
204:T3:12:DT:H1'	204:T3:13:DC:H5'	2.02	0.41
204:T3:39:DG:H1'	204:T3:40:DT:H5'	2.00	0.41
209:TA:20:DT:H1'	209:TA:21:DC:H5'	2.02	0.41
214:U5:17:DG:H2''	214:U5:18:DC:OP2	2.20	0.41
215:U7:16:DT:H2'	215:U7:17:DT:H72	2.02	0.41
216:U8:9:DT:H2'	216:U8:10:DT:H72	2.02	0.41
216:U8:19:DG:H2''	216:U8:20:DC:OP2	2.20	0.41
222:V3:7:DT:H2'	222:V3:8:DT:H72	2.02	0.41
223:V5:22:DG:H2''	223:V5:23:DC:OP2	2.20	0.41
227:VA:20:DG:H2''	227:VA:21:DC:OP2	2.20	0.41
230:W3:45:DT:H1'	230:W3:46:DC:H5'	2.02	0.41
234:W9:1:DG:C8	234:W9:2:DT:H72	2.55	0.41
238:X9:37:DG:C8	238:X9:38:DT:H72	2.55	0.41
238:X9:40:DT:H2'	238:X9:41:DT:H72	2.02	0.41
5:A5:20:DT:H2'	5:A5:21:DT:H72	2.02	0.41
5:A5:33:DT:H1'	5:A5:34:DC:H5'	2.02	0.41
7:A7:15:DG:H2''	7:A7:16:DC:OP2	2.20	0.41
7:A7:21:DA:H2'	7:A7:22:DT:H72	2.00	0.41
7:A7:28:DT:H2'	7:A7:29:DT:H72	2.01	0.41
9:A9:3:DT:H2'	9:A9:4:DT:H72	2.02	0.41
11:AB:54:DG:C8	11:AB:55:DT:H72	2.55	0.41
11:AB:75:DT:H1'	11:AB:76:DC:H5'	2.02	0.41
11:AB:145:DT:H1'	11:AB:146:DC:H5'	2.02	0.41
11:AB:213:DG:C8	11:AB:214:DT:H72	2.55	0.41
11:AB:274:DA:H1'	11:AB:275:DC:H5'	2.03	0.41
11:AB:386:DG:H2''	11:AB:387:DC:OP2	2.20	0.41
11:AB:511:DT:H1'	11:AB:512:DC:H5'	2.02	0.41
11:AB:520:DT:H1'	11:AB:521:DC:H5'	2.02	0.41
11:AB:530:DT:H2'	11:AB:531:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:590:DG:H2''	11:AB:591:DC:OP2	2.20	0.41
11:AB:714:DG:H1'	11:AB:715:DT:H5'	2.00	0.41
11:AB:784:DT:H2'	11:AB:785:DT:H72	2.02	0.41
11:AB:1120:DT:H2'	11:AB:1121:DT:H72	2.02	0.41
11:AB:1131:DG:H2''	11:AB:1132:DC:OP2	2.20	0.41
11:AB:1303:DT:H2'	11:AB:1304:DT:H72	2.02	0.41
11:AB:1439:DT:H2'	11:AB:1440:DT:H72	2.02	0.41
11:AB:1456:DA:H2'	11:AB:1457:DT:H72	2.00	0.41
11:AB:1553:DT:H2'	11:AB:1554:DT:H72	2.01	0.41
11:AB:1661:DT:H1'	11:AB:1662:DC:H5'	2.02	0.41
11:AB:1713:DT:H1'	11:AB:1714:DC:H5'	2.02	0.41
11:AB:1719:DT:H2'	11:AB:1720:DT:H72	2.02	0.41
11:AB:1753:DT:H2'	11:AB:1754:DT:H72	2.02	0.41
11:AB:1758:DA:H2'	11:AB:1759:DT:H72	2.00	0.41
11:AB:1816:DT:H2'	11:AB:1817:DT:H72	2.02	0.41
11:AB:2132:DT:H2'	11:AB:2133:DT:H72	2.02	0.41
11:AB:2174:DT:H2'	11:AB:2175:DT:H72	2.02	0.41
11:AB:2243:DT:H2'	11:AB:2244:DT:H72	2.02	0.41
11:AB:2363:DT:H2'	11:AB:2364:DT:H72	2.02	0.41
11:AB:2397:DT:H1'	11:AB:2398:DC:H5'	2.02	0.41
11:AB:2553:DT:H1'	11:AB:2554:DC:H5'	2.02	0.41
11:AB:2572:DA:H2'	11:AB:2573:DT:H72	2.00	0.41
11:AB:2612:DT:H1'	11:AB:2613:DC:H5'	2.02	0.41
11:AB:2659:DT:H2'	11:AB:2660:DT:H72	2.02	0.41
11:AB:2680:DT:H2'	11:AB:2681:DT:H72	2.02	0.41
11:AB:2683:DT:H1'	11:AB:2684:DC:H5'	2.02	0.41
11:AB:2738:DT:H2'	11:AB:2739:DT:H72	2.02	0.41
11:AB:2835:DT:H2'	11:AB:2836:DT:H72	2.02	0.41
11:AB:3032:DT:H2'	11:AB:3033:DT:H72	2.02	0.41
11:AB:3062:DT:H2'	11:AB:3063:DT:H72	2.02	0.41
11:AB:3194:DT:H2'	11:AB:3195:DT:H72	2.02	0.41
11:AB:3349:DT:H2'	11:AB:3350:DT:H72	2.02	0.41
11:AB:3451:DT:H1'	11:AB:3452:DC:H5'	2.02	0.41
11:AB:3526:DT:H2'	11:AB:3527:DT:H72	2.01	0.41
11:AB:3759:DT:H2'	11:AB:3760:DT:H72	2.02	0.41
11:AB:3790:DG:H2''	11:AB:4463:DC:OP1	2.20	0.41
11:AB:3842:DG:C8	11:AB:3843:DT:H72	2.55	0.41
11:AB:3982:DA:H2'	11:AB:3983:DT:H72	2.00	0.41
11:AB:4160:DT:H2'	11:AB:4161:DT:H72	2.02	0.41
11:AB:4192:DT:H1'	11:AB:4193:DC:H5'	2.02	0.41
11:AB:4243:DT:H2'	11:AB:4244:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:4285:DT:H2'	11:AB:4286:DT:H72	2.02	0.41
11:AB:4404:DT:H2'	11:AB:4405:DT:H72	2.02	0.41
11:AB:4460:DT:H1'	11:AB:4461:DC:H5'	2.02	0.41
11:AB:4536:DT:H2'	11:AB:4537:DT:H72	2.02	0.41
11:AB:4676:DT:H2'	11:AB:4677:DT:H72	2.02	0.41
11:AB:4939:DT:H2'	11:AB:4940:DT:H72	2.02	0.41
11:AB:5222:DT:H2'	11:AB:5223:DT:H72	2.01	0.41
11:AB:5281:DT:H1'	11:AB:5282:DC:H5'	2.02	0.41
11:AB:5317:DT:H2'	11:AB:5318:DT:H72	2.02	0.41
11:AB:5435:DT:H2'	11:AB:5436:DT:H72	2.02	0.41
11:AB:5580:DT:H2'	11:AB:5581:DT:H72	2.02	0.41
11:AB:5809:DT:H2'	11:AB:5810:DT:H72	2.02	0.41
11:AB:5912:DA:H2'	11:AB:5913:DT:H72	2.00	0.41
11:AB:5942:DG:C8	11:AB:5943:DT:H72	2.55	0.41
11:AB:6009:DT:H2'	11:AB:6010:DT:H72	2.02	0.41
11:AB:6039:DT:H1'	11:AB:6040:DC:H5'	2.02	0.41
11:AB:6104:DT:H1'	11:AB:6105:DC:H5'	2.02	0.41
11:AB:6138:DT:H1'	11:AB:6139:DC:H5'	2.02	0.41
11:AB:6181:DT:H1'	11:AB:6182:DC:H5'	2.02	0.41
11:AB:6382:DT:H1'	11:AB:6383:DC:H5'	2.02	0.41
11:AB:6426:DT:H2'	11:AB:6427:DT:H72	2.01	0.41
11:AB:6508:DT:H2'	11:AB:6509:DT:H72	2.02	0.41
11:AB:6545:DA:H2'	11:AB:6546:DT:H72	2.00	0.41
11:AB:6549:DT:H2'	11:AB:6550:DT:H72	2.02	0.41
11:AB:6574:DT:H2'	11:AB:6575:DT:H72	2.02	0.41
11:AB:6689:DT:H1'	11:AB:6690:DC:H5'	2.02	0.41
11:AB:6719:DT:H2'	11:AB:6720:DT:H72	2.01	0.41
11:AB:6740:DT:H2'	11:AB:6741:DT:H72	2.01	0.41
11:AB:7081:DG:C8	11:AB:7082:DT:H72	2.55	0.41
11:AB:7220:DT:H2'	11:AB:7221:DT:H72	2.02	0.41
12:AC:12:DT:H2'	12:AC:13:DT:H72	2.01	0.41
13:AD:40:DT:H2'	13:AD:41:DT:H72	2.01	0.41
22:B9:39:DT:H2'	22:B9:40:DT:H72	2.02	0.41
41:D6:38:DT:H2'	41:D6:39:DT:H72	2.02	0.41
48:E1:1:DT:H1'	48:E1:2:DC:H5'	2.01	0.41
55:E9:5:DT:H2'	55:E9:6:DT:H72	2.02	0.41
55:E9:24:DT:H1'	55:E9:25:DC:H5'	2.02	0.41
56:EA:17:DT:H1'	56:EA:18:DC:H5'	2.02	0.41
58:ED:26:DT:H2'	58:ED:27:DT:H72	2.01	0.41
94:I3:13:DT:H1'	94:I3:14:DC:H5'	2.02	0.41
94:I3:47:DG:H2''	94:I3:48:DC:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
96:I6:11:DT:H2'	96:I6:12:DT:H72	2.02	0.41
98:I8:25:DG:H2''	98:I8:26:DC:OP2	2.20	0.41
111:JA:10:DG:H1'	111:JA:11:DT:H5'	2.00	0.41
118:K6:7:DT:H2'	118:K6:8:DT:H72	2.02	0.41
119:K7:24:DT:H2'	119:K7:25:DT:H72	2.02	0.41
122:KA:3:DG:H1'	122:KA:4:DT:H5'	2.00	0.41
123:KC:12:DG:H1'	123:KC:13:DT:H5'	2.00	0.41
124:KD:8:DT:H2'	124:KD:9:DT:H72	2.02	0.41
127:L3:10:DT:H1'	127:L3:11:DC:H5'	2.02	0.41
128:L5:10:DG:H2''	128:L5:11:DC:OP2	2.20	0.41
129:L6:6:DG:H1'	129:L6:7:DT:H5'	2.00	0.41
129:L6:19:DT:H2'	129:L6:20:DT:H72	2.01	0.41
130:L7:3:DT:H2'	130:L7:4:DT:H72	2.02	0.41
130:L7:13:DT:H2'	130:L7:14:DT:H72	2.02	0.41
131:L8:6:DT:H1'	131:L8:7:DC:H5'	2.02	0.41
131:L8:27:DG:C8	131:L8:28:DT:H72	2.55	0.41
137:M3:15:DA:H2'	137:M3:16:DT:H72	2.00	0.41
138:M5:12:DT:H1'	138:M5:13:DC:H5'	2.02	0.41
142:M9:17:DT:H1'	142:M9:18:DC:H5'	2.02	0.41
144:MC:10:DG:H1'	144:MC:11:DT:H5'	2.00	0.41
145:MD:3:DT:H1'	145:MD:4:DC:H5'	2.02	0.41
149:N6:22:DT:H2'	149:N6:23:DT:H72	2.02	0.41
149:N6:38:DT:H1'	149:N6:39:DC:H5'	2.02	0.41
161:O8:36:DG:H1'	161:O8:37:DT:H5'	2.00	0.41
161:O8:42:DT:H1'	161:O8:43:DC:H5'	2.02	0.41
167:P3:11:DA:H2'	167:P3:12:DT:H72	2.00	0.41
168:P5:12:DT:H2'	168:P5:13:DT:H72	2.02	0.41
174:PC:21:DT:H2'	174:PC:22:DT:H72	2.02	0.41
176:Q2:10:DT:H1'	176:Q2:11:DC:H5'	2.02	0.41
184:QD:22:DT:H1'	184:QD:23:DC:H5'	2.02	0.41
192:RC:31:DT:H2'	192:RC:32:DT:H72	2.02	0.41
193:RD:18:DT:H1'	193:RD:19:DC:H5'	2.02	0.41
197:S7:19:DT:H1'	197:S7:20:DC:H5'	2.01	0.41
198:S8:40:DT:H2'	198:S8:41:DT:H72	2.02	0.41
212:U2:18:DT:H1'	212:U2:19:DC:H5'	2.02	0.41
212:U2:22:DT:H2'	212:U2:23:DT:H72	2.02	0.41
214:U5:41:DT:H2'	214:U5:42:DT:H72	2.02	0.41
215:U7:15:DT:H2'	215:U7:16:DT:H72	2.02	0.41
221:V2:17:DT:H2'	221:V2:18:DT:H72	2.02	0.41
222:V3:5:DA:H2'	222:V3:6:DT:H72	2.00	0.41
235:WD:21:DT:H1'	235:WD:22:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A4:27:DT:H2'	4:A4:28:DT:H72	2.02	0.41
5:A5:19:DG:C8	5:A5:20:DT:H72	2.55	0.41
7:A7:5:DT:H1'	7:A7:6:DC:H5'	2.02	0.41
8:A8:13:DT:H2'	8:A8:14:DT:H72	2.02	0.41
11:AB:33:DT:H1'	11:AB:34:DC:H5'	2.02	0.41
11:AB:114:DG:H2''	11:AB:115:DC:OP2	2.19	0.41
11:AB:166:DT:H1'	11:AB:167:DC:H5'	2.02	0.41
11:AB:204:DG:H2''	11:AB:205:DC:OP2	2.20	0.41
11:AB:548:DG:H2''	11:AB:549:DC:OP2	2.19	0.41
11:AB:744:DT:H1'	11:AB:6859:DC:H5'	2.02	0.41
11:AB:757:DT:H1'	11:AB:758:DC:H5'	2.02	0.41
11:AB:836:DT:H1'	11:AB:837:DC:H5'	2.02	0.41
11:AB:1085:DT:H2'	11:AB:1086:DT:H72	2.02	0.41
11:AB:1184:DT:H1'	11:AB:1185:DC:H5'	2.02	0.41
11:AB:1211:DT:H2'	11:AB:1212:DT:H72	2.02	0.41
11:AB:1292:DA:H1'	11:AB:1293:DC:H5'	2.03	0.41
11:AB:1451:DT:H2'	11:AB:1452:DT:H72	2.02	0.41
11:AB:1510:DT:H1'	11:AB:1511:DC:H5'	2.02	0.41
11:AB:1585:DT:H1'	11:AB:1586:DC:H5'	2.02	0.41
11:AB:1634:DG:H1'	11:AB:1635:DT:H5'	2.00	0.41
11:AB:1692:DT:H1'	11:AB:1693:DC:H5'	2.02	0.41
11:AB:1717:DT:H2'	11:AB:1718:DT:H72	2.02	0.41
11:AB:1740:DT:H2'	11:AB:1741:DT:H72	2.02	0.41
11:AB:1774:DT:H2'	11:AB:1775:DT:H72	2.02	0.41
11:AB:1813:DT:H1'	11:AB:1814:DC:H5'	2.02	0.41
11:AB:1886:DT:H1'	11:AB:1887:DC:H5'	2.01	0.41
11:AB:1894:DT:H1'	11:AB:1895:DC:H5'	2.02	0.41
11:AB:2099:DT:H1'	11:AB:2100:DC:H5'	2.02	0.41
11:AB:2181:DT:H2'	11:AB:2182:DT:H72	2.02	0.41
11:AB:2250:DT:H1'	11:AB:2251:DC:H5'	2.02	0.41
11:AB:2342:DT:H2'	11:AB:2343:DT:H72	2.02	0.41
11:AB:2411:DT:H2'	11:AB:2412:DT:H72	2.02	0.41
11:AB:2453:DT:H1'	11:AB:2454:DC:H5'	2.01	0.41
11:AB:2475:DT:H2'	11:AB:2476:DT:H72	2.02	0.41
11:AB:2847:DT:H2'	11:AB:2848:DT:H72	2.02	0.41
11:AB:2934:DT:H2'	11:AB:2935:DT:H72	2.02	0.41
11:AB:3075:DT:H1'	11:AB:3076:DC:H5'	2.02	0.41
11:AB:3138:DT:H2'	11:AB:3139:DT:H72	2.02	0.41
11:AB:3156:DT:H2'	11:AB:3157:DT:H72	2.02	0.41
11:AB:3210:DT:H1'	11:AB:3211:DC:H5'	2.02	0.41
11:AB:3311:DT:H2'	11:AB:3312:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3318:DT:H1'	11:AB:3319:DC:H5'	2.02	0.41
11:AB:3458:DG:H1'	11:AB:3459:DT:H5'	2.01	0.41
11:AB:3505:DT:H2'	11:AB:3506:DT:H72	2.02	0.41
11:AB:3640:DT:H1'	11:AB:3641:DC:H5'	2.02	0.41
11:AB:3732:DT:H1'	11:AB:3733:DC:H5'	2.02	0.41
11:AB:3826:DT:H1'	11:AB:3827:DC:H5'	2.02	0.41
11:AB:3920:DT:H1'	11:AB:3921:DC:H5'	2.02	0.41
11:AB:4012:DT:H1'	11:AB:4013:DC:H5'	2.02	0.41
11:AB:4152:DT:H1'	11:AB:4153:DC:H5'	2.02	0.41
11:AB:4173:DT:H1'	11:AB:4174:DC:H5'	2.02	0.41
11:AB:4229:DT:H2'	11:AB:4230:DT:H72	2.02	0.41
11:AB:4284:DG:C8	11:AB:4285:DT:H72	2.55	0.41
11:AB:4286:DT:H1'	11:AB:4287:DC:H5'	2.02	0.41
11:AB:4346:DT:H1'	11:AB:4347:DC:H5'	2.02	0.41
11:AB:4414:DT:H2'	11:AB:4415:DT:H72	2.02	0.41
11:AB:4835:DT:H1'	11:AB:4836:DC:H5'	2.02	0.41
11:AB:4868:DG:C8	11:AB:4869:DT:H72	2.55	0.41
11:AB:4873:DT:H2'	11:AB:4874:DT:H72	2.02	0.41
11:AB:4918:DT:H1'	11:AB:4919:DC:H5'	2.02	0.41
11:AB:5184:DT:H2'	11:AB:5185:DT:H72	2.02	0.41
11:AB:5223:DT:H2'	11:AB:5224:DT:H72	2.02	0.41
11:AB:5268:DT:H2'	11:AB:5269:DT:H72	2.02	0.41
11:AB:5310:DA:H1'	11:AB:5311:DC:H5'	2.03	0.41
11:AB:5377:DT:H2'	11:AB:5378:DT:H72	2.02	0.41
11:AB:5395:DT:H2'	11:AB:5396:DT:H72	2.02	0.41
11:AB:5679:DT:H2'	11:AB:5680:DT:H72	2.02	0.41
11:AB:5862:DT:H1'	11:AB:5863:DC:H5'	2.02	0.41
11:AB:6156:DT:H1'	11:AB:6157:DC:H5'	2.02	0.41
11:AB:6174:DT:H2'	11:AB:6175:DT:H72	2.02	0.41
11:AB:6192:DT:H1'	11:AB:6193:DC:H5'	2.02	0.41
11:AB:6221:DT:H2'	11:AB:6222:DT:H72	2.02	0.41
11:AB:6367:DT:H2'	11:AB:6368:DT:H72	2.02	0.41
11:AB:6396:DT:H2'	11:AB:6397:DT:H72	2.02	0.41
11:AB:6484:DT:H1'	11:AB:6485:DC:H5'	2.02	0.41
11:AB:6534:DT:H1'	11:AB:6535:DC:H5'	2.02	0.41
11:AB:6548:DT:H2'	11:AB:6549:DT:H72	2.02	0.41
11:AB:6570:DT:H1'	11:AB:6571:DC:H5'	2.02	0.41
11:AB:6687:DT:H1'	11:AB:6688:DC:H5'	2.02	0.41
11:AB:6722:DT:H1'	11:AB:6723:DC:H5'	2.02	0.41
11:AB:6995:DT:H1'	11:AB:6996:DC:H5'	2.02	0.41
11:AB:7075:DT:H2'	11:AB:7076:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:7238:DT:H1'	11:AB:7239:DC:H5'	2.02	0.41
21:B8:5:DT:H2'	21:B8:6:DT:H72	2.02	0.41
22:B9:18:DT:H2'	22:B9:19:DT:H72	2.02	0.41
23:BA:28:DT:H2'	23:BA:29:DT:H72	2.02	0.41
50:E3:11:DT:H2'	50:E3:12:DT:H72	2.02	0.41
51:E5:21:DT:H2'	51:E5:22:DT:H72	2.02	0.41
53:E7:5:DT:H2'	53:E7:6:DT:H72	2.02	0.41
54:E8:13:DT:H2'	54:E8:14:DT:H72	2.02	0.41
56:EA:6:DT:H2'	56:EA:7:DT:H72	2.02	0.41
59:F1:6:DT:H1'	59:F1:7:DC:H5'	2.02	0.41
62:F5:42:DT:H1'	62:F5:43:DC:H5'	2.02	0.41
77:G9:15:DT:H2'	77:G9:16:DT:H72	2.02	0.41
83:H3:3:DT:H2'	83:H3:4:DT:H72	2.02	0.41
85:H6:34:DA:H1'	85:H6:35:DC:H5'	2.03	0.41
86:H7:16:DT:H2'	86:H7:17:DT:H72	2.02	0.41
86:H7:17:DT:H2'	86:H7:18:DT:H72	2.02	0.41
95:I5:25:DT:H2'	95:I5:26:DT:H72	2.02	0.41
102:ID:33:DT:H1'	114:K1:1:DC:H5'	2.02	0.41
105:J3:12:DT:H2'	105:J3:13:DT:H72	2.02	0.41
107:J6:6:DT:H1'	107:J6:7:DC:H5'	2.02	0.41
108:J7:24:DT:H2'	108:J7:25:DT:H72	2.02	0.41
115:K2:12:DT:H2'	115:K2:13:DT:H72	2.02	0.41
117:K5:14:DT:H2'	117:K5:15:DT:H72	2.02	0.41
119:K7:7:DT:H1'	119:K7:8:DC:H5'	2.02	0.41
121:K9:16:DT:H2'	121:K9:17:DT:H72	2.02	0.41
130:L7:17:DT:H2'	130:L7:18:DT:H72	2.02	0.41
130:L7:45:DT:H2'	130:L7:46:DT:H72	2.02	0.41
133:LA:14:DT:H1'	133:LA:15:DC:H5'	2.02	0.41
135:LD:16:DT:H1'	135:LD:17:DC:H5'	2.02	0.41
137:M3:26:DG:C8	137:M3:27:DT:H72	2.55	0.41
138:M5:10:DT:H2'	138:M5:11:DT:H72	2.02	0.41
144:MC:20:DT:H2'	144:MC:21:DT:H72	2.02	0.41
147:N3:27:DT:H2'	147:N3:28:DT:H72	2.02	0.41
147:N3:32:DT:H2'	147:N3:33:DT:H72	2.02	0.41
160:O7:22:DT:H2'	160:O7:23:DT:H72	2.02	0.41
164:OC:9:DA:H1'	164:OC:10:DC:H5'	2.03	0.41
167:P3:14:DT:H2'	167:P3:15:DT:H72	2.02	0.41
173:PA:34:DA:H1'	173:PA:35:DC:H5'	2.03	0.41
178:Q5:31:DT:H2'	178:Q5:32:DT:H72	2.01	0.41
178:Q5:41:DA:H1'	178:Q5:42:DC:H5'	2.03	0.41
187:R5:10:DG:H2''	187:R5:11:DC:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
190:R9:1:DT:H2'	190:R9:2:DT:H72	2.02	0.41
190:R9:5:DT:H2'	190:R9:6:DT:H72	2.02	0.41
190:R9:23:DG:C8	190:R9:24:DT:H72	2.55	0.41
190:R9:36:DT:H2'	190:R9:37:DT:H72	2.02	0.41
194:S2:10:DA:H1'	194:S2:11:DC:H5'	2.03	0.41
202:SD:22:DT:H1'	202:SD:23:DC:H5'	2.02	0.41
204:T3:40:DT:H1'	204:T3:41:DC:H5'	2.02	0.41
208:T9:14:DT:H1'	208:T9:15:DC:H5'	2.02	0.41
209:TA:19:DT:H2'	209:TA:20:DT:H72	2.02	0.41
217:U9:26:DT:H2'	217:U9:27:DT:H72	2.02	0.41
219:UC:10:DT:H2'	219:UC:11:DT:H72	2.02	0.41
226:V9:12:DT:H1'	226:V9:13:DC:H5'	2.01	0.41
228:VC:17:DT:H1'	228:VC:18:DC:H5'	2.02	0.41
230:W3:24:DT:H2'	230:W3:25:DT:H72	2.01	0.41
230:W3:25:DT:H2'	230:W3:26:DT:H72	2.02	0.41
232:W7:16:DT:H1'	232:W7:17:DC:H5'	2.02	0.41
1:A1:30:DT:H1'	1:A1:31:DC:H5'	2.02	0.41
3:A3:17:DG:C8	3:A3:18:DT:H72	2.55	0.41
5:A5:11:DT:H2'	5:A5:12:DT:H72	2.02	0.41
7:A7:38:DT:H2'	7:A7:39:DT:H72	2.02	0.41
11:AB:253:DT:H2'	11:AB:254:DT:H72	2.02	0.41
11:AB:585:DT:H1'	11:AB:586:DC:H5'	2.02	0.41
11:AB:625:DT:H1'	11:AB:626:DC:H5'	2.02	0.41
11:AB:688:DT:H2'	11:AB:689:DT:H72	2.02	0.41
11:AB:704:DG:C8	11:AB:705:DT:H72	2.55	0.41
11:AB:822:DT:H1'	11:AB:823:DC:H5'	2.02	0.41
11:AB:847:DT:H1'	11:AB:848:DC:H5'	2.02	0.41
11:AB:874:DG:C8	11:AB:875:DT:H72	2.55	0.41
11:AB:895:DG:C8	11:AB:896:DT:H72	2.55	0.41
11:AB:901:DG:H2''	11:AB:902:DC:OP2	2.19	0.41
11:AB:916:DG:C8	11:AB:917:DT:H72	2.55	0.41
11:AB:976:DT:H2'	11:AB:977:DT:H72	2.02	0.41
11:AB:1116:DG:H2''	11:AB:1117:DA:OP2	2.21	0.41
11:AB:1159:DT:H2'	11:AB:1160:DT:H72	2.02	0.41
11:AB:1225:DT:H1'	11:AB:1226:DC:H5'	2.02	0.41
11:AB:1242:DT:H1'	11:AB:1243:DC:H5'	2.02	0.41
11:AB:1384:DT:H2'	11:AB:1385:DT:H72	2.02	0.41
11:AB:1385:DT:H2'	11:AB:1386:DT:H72	2.02	0.41
11:AB:1438:DT:H2'	11:AB:1439:DT:H72	2.02	0.41
11:AB:1527:DG:C8	11:AB:1528:DT:H72	2.55	0.41
11:AB:1871:DT:H1'	11:AB:1872:DC:H5'	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1902:DG:C8	11:AB:1903:DT:H72	2.55	0.41
11:AB:1984:DG:C8	11:AB:1985:DT:H72	2.55	0.41
11:AB:2020:DT:H2'	11:AB:2021:DT:H72	2.02	0.41
11:AB:2115:DT:H2'	11:AB:2116:DT:H72	2.02	0.41
11:AB:2206:DG:C8	11:AB:2207:DT:H72	2.55	0.41
11:AB:2423:DT:H2'	11:AB:2424:DT:H72	2.02	0.41
11:AB:2507:DT:H2'	11:AB:2508:DT:H72	2.02	0.41
11:AB:2519:DT:H2'	11:AB:2520:DT:H72	2.02	0.41
11:AB:2625:DT:H2'	11:AB:2626:DT:H72	2.02	0.41
11:AB:2787:DT:H1'	11:AB:2788:DC:H5'	2.02	0.41
11:AB:2806:DG:C8	11:AB:2807:DT:H72	2.55	0.41
11:AB:2814:DT:H2'	11:AB:2815:DT:H72	2.02	0.41
11:AB:2910:DG:H2''	11:AB:2911:DC:OP2	2.19	0.41
11:AB:3009:DT:H2'	11:AB:3010:DT:H72	2.02	0.41
11:AB:3030:DT:H2'	11:AB:3031:DT:H72	2.02	0.41
11:AB:3054:DT:H2'	11:AB:3055:DT:H72	2.02	0.41
11:AB:3147:DT:H2'	11:AB:3148:DT:H72	2.02	0.41
11:AB:3245:DT:H2'	11:AB:3246:DT:H72	2.02	0.41
11:AB:3300:DT:H1'	11:AB:3301:DC:H5'	2.02	0.41
11:AB:3330:DT:H2'	11:AB:3331:DT:H72	2.02	0.41
11:AB:3353:DT:H2'	11:AB:3354:DT:H72	2.02	0.41
11:AB:3559:DT:H1'	11:AB:3560:DC:H5'	2.02	0.41
11:AB:3624:DT:H2'	11:AB:3625:DT:H72	2.02	0.41
11:AB:3644:DT:H1'	11:AB:3645:DC:H5'	2.02	0.41
11:AB:3829:DT:H1'	11:AB:3830:DC:H5'	2.02	0.41
11:AB:4181:DT:H2'	11:AB:4182:DT:H72	2.02	0.41
11:AB:4378:DA:H1'	11:AB:4379:DC:H5'	2.03	0.41
11:AB:4433:DT:H2'	11:AB:4434:DT:H72	2.02	0.41
11:AB:4617:DT:H2'	11:AB:4618:DT:H72	2.02	0.41
11:AB:4641:DT:H1'	11:AB:4642:DC:H5'	2.02	0.41
11:AB:4764:DA:H1'	11:AB:4765:DC:H5'	2.03	0.41
11:AB:5029:DG:C8	11:AB:5030:DT:H72	2.55	0.41
11:AB:5099:DG:C8	11:AB:5100:DT:H72	2.55	0.41
11:AB:5367:DT:H2'	11:AB:5368:DT:H72	2.02	0.41
11:AB:5386:DT:H2'	11:AB:5387:DT:H72	2.02	0.41
11:AB:5437:DT:H2'	11:AB:5438:DT:H72	2.02	0.41
11:AB:5545:DT:H1'	11:AB:5546:DC:H5'	2.02	0.41
11:AB:5598:DT:H2'	11:AB:5599:DT:H72	2.02	0.41
11:AB:5608:DT:H2'	11:AB:5609:DT:H72	2.02	0.41
11:AB:5894:DT:H2'	11:AB:5895:DT:H72	2.02	0.41
11:AB:6078:DT:H2'	11:AB:6079:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6100:DG:C8	11:AB:6101:DT:H72	2.55	0.41
11:AB:6120:DG:C8	11:AB:6121:DT:H72	2.55	0.41
11:AB:6127:DT:H2'	11:AB:6128:DT:H72	2.02	0.41
11:AB:6133:DT:H1'	11:AB:6134:DC:H5'	2.02	0.41
11:AB:6154:DG:H2''	11:AB:6155:DC:OP2	2.19	0.41
11:AB:6189:DG:H2''	11:AB:6190:DC:OP2	2.19	0.41
11:AB:6259:DT:H2'	11:AB:6260:DT:H72	2.02	0.41
11:AB:6301:DT:H2'	11:AB:6302:DT:H72	2.02	0.41
11:AB:6323:DT:H2'	11:AB:6324:DT:H72	2.02	0.41
11:AB:6370:DA:H1'	11:AB:6371:DC:H5'	2.03	0.41
11:AB:6391:DA:H1'	11:AB:6392:DC:H5'	2.03	0.41
11:AB:6398:DT:H2'	11:AB:6399:DT:H72	2.02	0.41
11:AB:6417:DT:H2'	11:AB:6418:DT:H72	2.02	0.41
11:AB:6419:DT:H2'	11:AB:6420:DT:H72	2.02	0.41
11:AB:6429:DT:H1'	11:AB:6430:DC:H5'	2.02	0.41
11:AB:6454:DG:H2''	11:AB:6455:DA:OP2	2.21	0.41
11:AB:6495:DT:H2'	11:AB:6496:DT:H72	2.02	0.41
11:AB:6583:DT:H2'	11:AB:6584:DT:H72	2.02	0.41
11:AB:6644:DT:H1'	11:AB:6645:DC:H5'	2.02	0.41
11:AB:6707:DT:H1'	11:AB:6708:DC:H5'	2.02	0.41
11:AB:6725:DT:H1'	11:AB:6726:DC:H5'	2.02	0.41
11:AB:6768:DG:H2''	11:AB:6769:DA:OP2	2.21	0.41
11:AB:6785:DT:H1'	11:AB:6786:DC:H5'	2.02	0.41
11:AB:6865:DT:H1'	11:AB:6866:DC:H5'	2.02	0.41
11:AB:6880:DT:H1'	11:AB:6881:DC:H5'	2.02	0.41
11:AB:6912:DG:H1'	11:AB:6913:DT:H5'	2.00	0.41
11:AB:6923:DG:C8	11:AB:6924:DT:H72	2.55	0.41
11:AB:7095:DT:H2'	11:AB:7096:DT:H72	2.02	0.41
11:AB:7140:DT:H1'	11:AB:7141:DC:H5'	2.02	0.41
11:AB:7170:DT:H2'	11:AB:7171:DT:H72	2.02	0.41
13:AD:8:DT:H1'	13:AD:9:DC:H5'	2.02	0.41
15:B2:20:DG:H2''	15:B2:21:DC:OP2	2.19	0.41
20:B7:13:DG:H2''	97:I7:28:DC:OP1	2.19	0.41
37:D1:4:DT:H2'	37:D1:5:DT:H72	2.02	0.41
37:D1:20:DA:H1'	37:D1:21:DC:H5'	2.03	0.41
39:D3:22:DT:H2'	39:D3:23:DT:H72	2.02	0.41
40:D5:15:DT:H2'	40:D5:16:DT:H72	2.02	0.41
43:D8:30:DT:H1'	43:D8:31:DC:H5'	2.02	0.41
45:DA:6:DT:H1'	45:DA:7:DC:H5'	2.02	0.41
46:DC:12:DA:H1'	46:DC:13:DC:H5'	2.03	0.41
49:E2:17:DG:C8	49:E2:18:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:E7:2:DT:H2'	53:E7:3:DT:H72	2.02	0.41
54:E8:31:DT:H2'	54:E8:32:DT:H72	2.02	0.41
56:EA:10:DG:C8	56:EA:11:DT:H72	2.55	0.41
68:FC:3:DT:H2'	68:FC:4:DT:H72	2.02	0.41
69:FD:26:DG:C8	69:FD:27:DT:H72	2.55	0.41
83:H3:26:DG:C8	83:H3:27:DT:H72	2.55	0.41
84:H5:15:DT:H2'	84:H5:16:DT:H72	2.02	0.41
87:H8:6:DT:H2'	87:H8:7:DT:H72	2.02	0.41
91:HD:27:DT:H1'	91:HD:28:DC:H5'	2.02	0.41
97:I7:19:DA:H1'	97:I7:20:DC:H5'	2.03	0.41
98:I8:11:DT:H1'	98:I8:12:DC:H5'	2.02	0.41
99:I9:15:DT:H1'	99:I9:16:DC:H5'	2.02	0.41
101:IC:21:DA:H1'	101:IC:22:DC:H5'	2.03	0.41
103:J1:6:DA:H1'	103:J1:7:DC:H5'	2.03	0.41
106:J5:10:DT:H2'	106:J5:11:DT:H72	2.02	0.41
106:J5:22:DA:H1'	106:J5:23:DC:H5'	2.03	0.41
107:J6:1:DC:H5'	230:W3:28:DT:H1'	2.02	0.41
108:J7:17:DT:H2'	108:J7:18:DT:H72	2.02	0.41
108:J7:41:DA:H1'	108:J7:42:DC:H5'	2.03	0.41
111:JA:8:DA:H1'	111:JA:9:DC:H5'	2.03	0.41
115:K2:6:DT:H2'	115:K2:7:DT:H72	2.02	0.41
127:L3:18:DT:H1'	127:L3:19:DC:H5'	2.02	0.41
128:L5:2:DT:H1'	128:L5:3:DC:H5'	2.02	0.41
130:L7:31:DT:H1'	130:L7:32:DC:H5'	2.02	0.41
135:LD:9:DT:H2'	135:LD:10:DT:H72	2.02	0.41
136:M2:10:DT:H2'	136:M2:11:DT:H72	2.02	0.41
144:MC:18:DT:H1'	144:MC:19:DC:H5'	2.02	0.41
146:N2:11:DT:H2'	146:N2:12:DT:H72	2.02	0.41
148:N5:8:DT:H2'	148:N5:9:DT:H72	2.02	0.41
149:N6:45:DA:H1'	149:N6:46:DC:H5'	2.03	0.41
152:N9:4:DG:C8	152:N9:5:DT:H72	2.55	0.41
152:N9:38:DG:H2''	165:OD:50:DC:OP1	2.19	0.41
156:O2:13:DT:H1'	156:O2:14:DC:H5'	2.02	0.41
160:O7:44:DT:H1'	160:O7:45:DC:H5'	2.02	0.41
160:O7:50:DT:H2'	160:O7:51:DT:H72	2.02	0.41
167:P3:6:DT:H2'	167:P3:7:DT:H72	2.02	0.41
171:P8:6:DT:H1'	171:P8:7:DC:H5'	2.02	0.41
171:P8:26:DT:H1'	171:P8:27:DC:H5'	2.02	0.41
179:Q7:7:DG:H2''	179:Q7:8:DA:O5'	2.21	0.41
181:Q9:36:DT:H1'	181:Q9:37:DC:H5'	2.02	0.41
182:QA:22:DA:H1'	182:QA:23:DC:H5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
184:QD:10:DT:H2'	184:QD:11:DT:H72	2.02	0.41
187:R5:30:DT:H1'	187:R5:31:DC:H5'	2.02	0.41
188:R7:26:DT:H2'	188:R7:27:DT:H72	2.02	0.41
189:R8:25:DT:H2'	189:R8:26:DT:H72	2.02	0.41
190:R9:19:DT:H2'	190:R9:20:DT:H72	2.02	0.41
190:R9:40:DA:H1'	190:R9:41:DC:H5'	2.03	0.41
191:RA:24:DT:H1'	191:RA:25:DC:H5'	2.02	0.41
192:RC:30:DT:H2'	192:RC:31:DT:H72	2.02	0.41
196:S5:29:DG:C8	196:S5:30:DT:H72	2.55	0.41
207:T8:15:DA:H1'	207:T8:16:DC:H5'	2.03	0.41
207:T8:17:DC:H5'	216:U8:10:DT:H1'	2.02	0.41
211:TD:5:DT:H2'	211:TD:6:DT:H72	2.02	0.41
214:U5:39:DT:H2'	214:U5:40:DT:H72	2.02	0.41
218:UA:8:DG:C8	218:UA:9:DT:H72	2.55	0.41
219:UC:13:DG:H2''	219:UC:14:DA:OP2	2.21	0.41
221:V2:22:DT:H2'	221:V2:23:DT:H72	2.02	0.41
222:V3:8:DT:H2'	222:V3:9:DT:H72	2.02	0.41
230:W3:11:DT:H2'	230:W3:12:DT:H72	2.02	0.41
230:W3:32:DT:H2'	230:W3:33:DT:H72	2.02	0.41
237:X7:3:DT:H2'	237:X7:4:DT:H72	2.02	0.41
237:X7:10:DT:H2'	237:X7:11:DT:H72	2.02	0.41
238:X9:11:DT:H1'	238:X9:12:DC:H5'	2.02	0.41
1:A1:20:DC:H5'	32:C8:31:DA:H1'	2.03	0.41
7:A7:20:DT:H1'	130:L7:22:DC:H5'	2.02	0.41
8:A8:26:DT:H2'	8:A8:27:DT:H72	2.02	0.41
9:A9:6:DG:H2''	9:A9:7:DA:OP2	2.21	0.41
11:AB:9:DG:C8	11:AB:10:DT:H72	2.55	0.41
11:AB:64:DG:C8	11:AB:65:DT:H72	2.55	0.41
11:AB:150:DG:C8	11:AB:151:DT:H72	2.55	0.41
11:AB:159:DT:H2'	11:AB:160:DT:H72	2.02	0.41
11:AB:188:DT:H2'	11:AB:189:DT:H72	2.02	0.41
11:AB:197:DT:H1'	11:AB:198:DC:H5'	2.02	0.41
11:AB:289:DG:C8	11:AB:290:DT:H72	2.55	0.41
11:AB:346:DG:C8	11:AB:347:DT:H72	2.55	0.41
11:AB:382:DT:H2'	11:AB:383:DT:H72	2.02	0.41
11:AB:577:DT:H2'	11:AB:578:DT:H72	2.02	0.41
11:AB:667:DT:H2'	11:AB:668:DT:H72	2.02	0.41
11:AB:771:DT:H2'	11:AB:772:DT:H72	2.02	0.41
11:AB:880:DG:C8	11:AB:881:DT:H72	2.55	0.41
11:AB:888:DT:H1'	11:AB:889:DC:H5'	2.02	0.41
11:AB:1017:DA:H1'	11:AB:1018:DC:H5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1157:DT:H2'	11:AB:1158:DT:H72	2.02	0.41
11:AB:1189:DT:H1'	11:AB:1190:DC:H5'	2.02	0.41
11:AB:1236:DT:H2'	11:AB:1237:DT:H72	2.02	0.41
11:AB:1246:DT:H1'	11:AB:1247:DC:H5'	2.02	0.41
11:AB:1309:DT:H2'	11:AB:1310:DT:H72	2.01	0.41
11:AB:1435:DT:H1'	11:AB:1436:DC:H5'	2.02	0.41
11:AB:1523:DT:H2'	11:AB:1524:DT:H72	2.02	0.41
11:AB:1546:DT:H2'	11:AB:1547:DT:H72	2.02	0.41
11:AB:1654:DT:H1'	11:AB:1655:DC:H5'	2.02	0.41
11:AB:1686:DT:H2'	11:AB:1687:DT:H72	2.02	0.41
11:AB:1953:DT:H1'	11:AB:1954:DC:H5'	2.02	0.41
11:AB:1992:DT:H1'	11:AB:1993:DC:H5'	2.02	0.41
11:AB:2093:DT:H2'	11:AB:2094:DT:H72	2.02	0.41
11:AB:2135:DT:H1'	11:AB:2136:DC:H5'	2.02	0.41
11:AB:2157:DG:C8	11:AB:2158:DT:H72	2.55	0.41
11:AB:2249:DT:H2'	11:AB:2250:DT:H72	2.02	0.41
11:AB:2265:DT:H1'	11:AB:2266:DC:H5'	2.02	0.41
11:AB:2292:DG:C8	11:AB:2293:DT:H72	2.55	0.41
11:AB:2373:DG:H2''	11:AB:2374:DC:OP2	2.19	0.41
11:AB:2379:DG:H2''	11:AB:2380:DA:OP2	2.21	0.41
11:AB:2420:DT:H2'	11:AB:2421:DT:H72	2.02	0.41
11:AB:2441:DT:H2'	11:AB:2442:DT:H72	2.02	0.41
11:AB:2480:DT:H1'	11:AB:2481:DC:H5'	2.02	0.41
11:AB:2628:DG:H2''	11:AB:2629:DA:OP2	2.21	0.41
11:AB:2682:DT:H2'	11:AB:2683:DT:H72	2.02	0.41
11:AB:2691:DT:H1'	11:AB:2692:DC:H5'	2.02	0.41
11:AB:2754:DG:H2''	11:AB:2755:DA:OP2	2.21	0.41
11:AB:2761:DG:C8	11:AB:2762:DT:H72	2.55	0.41
11:AB:2853:DT:H1'	11:AB:2854:DC:H5'	2.02	0.41
11:AB:2857:DG:C8	11:AB:2858:DT:H72	2.55	0.41
11:AB:2967:DT:H2'	11:AB:2968:DT:H72	2.02	0.41
11:AB:2991:DT:H1'	11:AB:2992:DC:H5'	2.02	0.41
11:AB:3008:DT:H2'	11:AB:3009:DT:H72	2.02	0.41
11:AB:3015:DT:H2'	11:AB:3016:DT:H72	2.02	0.41
11:AB:3066:DG:H2''	11:AB:3067:DA:O5'	2.21	0.41
11:AB:3192:DT:H2'	11:AB:3193:DT:H72	2.02	0.41
11:AB:3193:DT:H2'	11:AB:3194:DT:H72	2.01	0.41
11:AB:3208:DG:C8	11:AB:3209:DT:H72	2.55	0.41
11:AB:3236:DT:H1'	11:AB:3237:DC:H5'	2.02	0.41
11:AB:3342:DT:H1'	11:AB:3343:DC:H5'	2.02	0.41
11:AB:3361:DG:C8	11:AB:3362:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3373:DA:H1'	11:AB:3374:DC:H5'	2.03	0.41
11:AB:3411:DT:H1'	11:AB:3412:DC:H5'	2.02	0.41
11:AB:3433:DT:H2'	11:AB:3434:DT:H72	2.02	0.41
11:AB:3511:DT:H1'	11:AB:3512:DC:H5'	2.02	0.41
11:AB:3625:DT:H1'	11:AB:3626:DC:H5'	2.02	0.41
11:AB:3680:DG:C8	11:AB:3681:DT:H72	2.55	0.41
11:AB:3905:DT:H2'	11:AB:3906:DT:H72	2.02	0.41
11:AB:4006:DT:H1'	11:AB:4007:DC:H5'	2.02	0.41
11:AB:4326:DT:H2'	11:AB:4327:DT:H72	2.02	0.41
11:AB:4631:DA:H1'	11:AB:4632:DC:H5'	2.03	0.41
11:AB:4645:DG:H2''	11:AB:4646:DA:OP2	2.21	0.41
11:AB:4740:DG:C8	11:AB:4741:DT:H72	2.55	0.41
11:AB:4832:DG:H2''	11:AB:4833:DA:O5'	2.21	0.41
11:AB:4837:DG:H2''	11:AB:4838:DA:O5'	2.21	0.41
11:AB:4887:DA:H1'	11:AB:4888:DC:H5'	2.03	0.41
11:AB:5076:DT:H2'	11:AB:5077:DT:H72	2.02	0.41
11:AB:5077:DT:H1'	11:AB:5078:DC:H5'	2.02	0.41
11:AB:5100:DT:H1'	11:AB:5101:DC:H5'	2.01	0.41
11:AB:5229:DT:H2'	11:AB:5230:DT:H72	2.02	0.41
11:AB:5465:DT:H2'	11:AB:5466:DT:H72	2.02	0.41
11:AB:5603:DA:H1'	11:AB:5604:DC:H5'	2.03	0.41
11:AB:5616:DT:H2'	11:AB:5617:DT:H72	2.02	0.41
11:AB:5671:DT:H2'	11:AB:5672:DT:H72	2.02	0.41
11:AB:5683:DG:C8	11:AB:5684:DT:H72	2.55	0.41
11:AB:6175:DT:H2'	11:AB:6176:DT:H72	2.02	0.41
11:AB:6302:DT:H2'	11:AB:6303:DT:H72	2.02	0.41
11:AB:6333:DT:H2'	11:AB:6334:DT:H72	2.02	0.41
11:AB:6621:DG:C8	11:AB:6622:DT:H72	2.55	0.41
11:AB:6861:DT:H1'	11:AB:6862:DC:H5'	2.02	0.41
11:AB:6895:DT:H2'	11:AB:6896:DT:H72	2.02	0.41
11:AB:6910:DT:H1'	11:AB:6911:DC:H5'	2.02	0.41
11:AB:6979:DT:H1'	11:AB:6980:DC:H5'	2.02	0.41
11:AB:6992:DG:C8	11:AB:6993:DT:H72	2.55	0.41
11:AB:7025:DG:H2''	11:AB:7026:DA:OP2	2.21	0.41
11:AB:7033:DT:H2'	11:AB:7034:DT:H72	2.02	0.41
11:AB:7060:DT:H2'	11:AB:7061:DT:H72	2.02	0.41
11:AB:7096:DT:H2'	11:AB:7097:DT:H72	2.02	0.41
11:AB:7110:DG:H2''	11:AB:7111:DA:OP2	2.21	0.41
11:AB:7119:DT:H1'	11:AB:7120:DC:H5'	2.02	0.41
11:AB:7167:DT:H1'	11:AB:7168:DC:H5'	2.02	0.41
11:AB:7184:DT:H2'	11:AB:7185:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:B1:11:DT:H2'	14:B1:12:DT:H72	2.02	0.41
14:B1:36:DA:OP1	94:I3:59:DG:H2''	2.21	0.41
15:B2:7:DA:H1'	15:B2:8:DC:H5'	2.03	0.41
16:B3:13:DA:H1'	152:N9:25:DC:H5'	2.03	0.41
16:B3:14:DT:H72	152:N9:24:DG:C8	2.55	0.41
18:B5:18:DT:H2'	18:B5:19:DT:H72	2.02	0.41
23:BA:25:DT:H2'	23:BA:26:DT:H72	2.02	0.41
31:C7:32:DA:H1'	31:C7:33:DC:H5'	2.03	0.41
32:C8:13:DT:H2'	32:C8:14:DT:H72	2.02	0.41
35:CC:9:DA:H1'	35:CC:10:DC:H5'	2.03	0.41
36:CD:25:DT:H1'	36:CD:26:DC:H5'	2.02	0.41
45:DA:24:DT:H1'	45:DA:25:DC:H5'	2.02	0.41
47:DD:41:DG:H2''	47:DD:42:DC:OP2	2.19	0.41
55:E9:9:DT:H2'	55:E9:10:DT:H72	2.02	0.41
56:EA:13:DT:H2'	56:EA:14:DT:H72	2.02	0.41
63:F6:17:DG:C8	63:F6:18:DT:H72	2.55	0.41
67:FA:15:DG:C8	67:FA:16:DT:H72	2.55	0.41
82:H2:17:DT:H1'	82:H2:18:DC:H5'	2.02	0.41
84:H5:40:DG:H2''	178:Q5:1:DA:OP1	2.21	0.41
87:H8:23:DA:H1'	87:H8:24:DC:H5'	2.03	0.41
93:I2:41:DG:H2''	93:I2:42:DA:OP2	2.21	0.41
93:I2:47:DT:H1'	93:I2:48:DC:H5'	2.02	0.41
103:J1:16:DT:H1'	103:J1:17:DC:H5'	2.02	0.41
104:J2:29:DC:H5'	206:T7:17:DA:H1'	2.03	0.41
105:J3:17:DT:H2'	105:J3:18:DT:H72	2.02	0.41
109:J8:42:DG:H2''	109:J8:43:DC:OP2	2.19	0.41
122:KA:30:DT:H1'	122:KA:31:DC:H5'	2.02	0.41
126:L2:9:DT:H2'	126:L2:10:DT:H72	2.02	0.41
129:L6:20:DT:H1'	129:L6:21:DC:H5'	2.02	0.41
130:L7:24:DT:H1'	130:L7:25:DC:H5'	2.02	0.41
133:LA:8:DT:H2'	133:LA:9:DT:H72	2.02	0.41
134:LC:20:DT:H1'	134:LC:21:DC:H5'	2.02	0.41
137:M3:28:DT:H1'	137:M3:29:DC:H5'	2.02	0.41
141:M8:15:DG:H2''	141:M8:16:DA:OP2	2.21	0.41
142:M9:12:DT:H2'	142:M9:13:DT:H72	2.02	0.41
144:MC:17:DT:H2'	144:MC:18:DT:H72	2.02	0.41
145:MD:34:DT:H2'	145:MD:35:DT:H72	2.02	0.41
147:N3:28:DT:H1'	204:T3:15:DC:H5'	2.02	0.41
153:NA:22:DG:H2''	153:NA:23:DA:OP2	2.21	0.41
159:O6:1:DT:H2'	159:O6:2:DT:H72	2.02	0.41
164:OC:5:DT:H1'	164:OC:6:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
175:PD:14:DT:H2'	175:PD:15:DT:H72	2.02	0.41
177:Q3:7:DA:H1'	177:Q3:8:DC:H5'	2.03	0.41
185:R2:1:DT:H2'	185:R2:2:DT:H72	2.02	0.41
186:R3:13:DG:H2''	204:T3:8:DC:OP1	2.19	0.41
187:R5:27:DG:H2''	187:R5:28:DA:OP2	2.21	0.41
194:S2:4:DG:C8	198:S8:25:DT:H72	2.55	0.41
195:S3:7:DG:H2''	195:S3:8:DC:OP2	2.19	0.41
197:S7:23:DG:H2''	197:S7:24:DA:OP2	2.21	0.41
205:T5:15:DA:H1'	205:T5:16:DC:H5'	2.03	0.41
213:U3:21:DT:H1'	213:U3:22:DC:H5'	2.02	0.41
214:U5:24:DT:H2'	214:U5:25:DT:H72	2.02	0.41
217:U9:13:DT:H2'	217:U9:14:DT:H72	2.02	0.41
220:UD:5:DT:H1'	220:UD:6:DC:H5'	2.02	0.41
221:V2:16:DT:H2'	221:V2:17:DT:H72	2.01	0.41
232:W7:6:DG:H2''	232:W7:7:DA:OP2	2.21	0.41
235:WD:7:DA:H1'	235:WD:8:DC:H5'	2.03	0.41
236:X5:9:DG:H2''	236:X5:10:DA:OP2	2.21	0.41
1:A1:6:DA:H1'	1:A1:7:DC:H5'	2.03	0.41
1:A1:51:DT:H1'	1:A1:52:DC:H5'	2.02	0.41
2:A2:26:DG:C8	2:A2:27:DT:H72	2.55	0.41
2:A2:27:DT:H2'	2:A2:28:DT:H72	2.02	0.41
3:A3:11:DT:H1'	3:A3:12:DC:H5'	2.02	0.41
4:A4:29:DT:H2'	4:A4:30:DT:H72	2.02	0.41
5:A5:1:DT:H2'	5:A5:2:DT:H72	2.02	0.41
5:A5:28:DA:H1'	178:Q5:8:DC:H5'	2.03	0.41
6:A6:19:DT:H2'	6:A6:20:DT:H72	2.02	0.41
6:A6:23:DG:C8	6:A6:24:DT:H72	2.55	0.41
10:AA:7:DT:H1'	10:AA:8:DC:H5'	2.02	0.41
10:AA:9:DA:H1'	10:AA:10:DC:H5'	2.03	0.41
11:AB:80:DT:H1'	11:AB:81:DC:H5'	2.02	0.41
11:AB:116:DT:H1'	11:AB:117:DC:H5'	2.02	0.41
11:AB:129:DT:H2'	11:AB:130:DT:H72	2.02	0.41
11:AB:176:DT:H2'	11:AB:177:DT:H72	2.02	0.41
11:AB:180:DG:C8	11:AB:181:DT:H72	2.55	0.41
11:AB:221:DT:H2'	11:AB:222:DT:H72	2.02	0.41
11:AB:248:DT:H2'	11:AB:249:DT:H72	2.02	0.41
11:AB:262:DT:H1'	11:AB:263:DC:H5'	2.02	0.41
11:AB:270:DG:H2''	11:AB:271:DA:OP2	2.21	0.41
11:AB:273:DG:H2''	11:AB:274:DA:OP2	2.21	0.41
11:AB:303:DG:H2''	11:AB:304:DA:OP2	2.21	0.41
11:AB:310:DG:C8	11:AB:311:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:388:DT:H2'	11:AB:389:DT:H72	2.02	0.41
11:AB:526:DG:H2''	11:AB:527:DC:OP2	2.20	0.41
11:AB:595:DT:H2'	11:AB:596:DT:H72	2.02	0.41
11:AB:600:DA:H1'	11:AB:601:DC:H5'	2.03	0.41
11:AB:604:DT:H1'	11:AB:605:DC:H5'	2.02	0.41
11:AB:608:DG:C8	11:AB:609:DT:H72	2.55	0.41
11:AB:657:DA:H1'	11:AB:658:DC:H5'	2.03	0.41
11:AB:663:DA:H1'	11:AB:664:DC:H5'	2.03	0.41
11:AB:678:DA:H1'	11:AB:679:DC:H5'	2.03	0.41
11:AB:693:DA:H1'	11:AB:694:DC:H5'	2.03	0.41
11:AB:740:DT:H2'	11:AB:741:DT:H72	2.02	0.41
11:AB:756:DT:H2'	11:AB:757:DT:H72	2.02	0.41
11:AB:762:DG:H2''	11:AB:763:DA:OP2	2.21	0.41
11:AB:781:DG:H2''	11:AB:782:DC:OP2	2.20	0.41
11:AB:798:DT:H2'	11:AB:799:DT:H72	2.02	0.41
11:AB:825:DT:H1'	11:AB:826:DC:H5'	2.02	0.41
11:AB:903:DT:H1'	11:AB:904:DC:H5'	2.02	0.41
11:AB:1040:DG:H2''	11:AB:1041:DC:OP2	2.20	0.41
11:AB:1051:DA:H1'	11:AB:1052:DC:H5'	2.03	0.41
11:AB:1064:DA:H1'	11:AB:1065:DC:H5'	2.03	0.41
11:AB:1074:DG:C8	11:AB:1075:DT:H72	2.55	0.41
11:AB:1105:DG:C8	11:AB:1106:DT:H72	2.55	0.41
11:AB:1106:DT:H2'	11:AB:1107:DT:H72	2.02	0.41
11:AB:1117:DA:H1'	11:AB:1118:DC:H5'	2.03	0.41
11:AB:1149:DA:H1'	11:AB:1150:DC:H5'	2.03	0.41
11:AB:1161:DG:H2''	11:AB:1162:DC:OP2	2.20	0.41
11:AB:1167:DT:H1'	11:AB:1168:DC:H5'	2.02	0.41
11:AB:1368:DA:H1'	11:AB:1369:DC:H5'	2.03	0.41
11:AB:1389:DA:H1'	11:AB:1390:DC:H5'	2.03	0.41
11:AB:1443:DG:C8	11:AB:1444:DT:H72	2.55	0.41
11:AB:1461:DG:C8	11:AB:1462:DT:H72	2.55	0.41
11:AB:1477:DT:H1'	11:AB:1478:DC:H5'	2.02	0.41
11:AB:1486:DT:H2'	11:AB:1487:DT:H72	2.02	0.41
11:AB:1547:DT:H1'	11:AB:1548:DC:H5'	2.02	0.41
11:AB:1555:DT:H1'	11:AB:1556:DC:H5'	2.02	0.41
11:AB:1578:DA:H1'	11:AB:1579:DC:H5'	2.03	0.41
11:AB:1580:DT:H1'	11:AB:1581:DC:H5'	2.02	0.41
11:AB:1584:DT:H2'	11:AB:1585:DT:H72	2.02	0.41
11:AB:1629:DA:H1'	11:AB:1630:DC:H5'	2.03	0.41
11:AB:1643:DG:C8	11:AB:1644:DT:H72	2.55	0.41
11:AB:1648:DG:C8	11:AB:1649:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1681:DT:H2'	11:AB:1682:DT:H72	2.02	0.41
11:AB:1697:DG:C8	11:AB:1698:DT:H72	2.55	0.41
11:AB:1737:DT:H1'	11:AB:1738:DC:H5'	2.02	0.41
11:AB:1822:DT:H2'	11:AB:1823:DT:H72	2.02	0.41
11:AB:1843:DT:H2'	11:AB:1844:DT:H72	2.02	0.41
11:AB:1863:DG:H2''	11:AB:1864:DC:OP2	2.20	0.41
11:AB:1883:DG:H2''	11:AB:1884:DC:OP2	2.19	0.41
11:AB:1891:DA:H1'	11:AB:1892:DC:H5'	2.03	0.41
11:AB:1907:DG:H2''	11:AB:1908:DA:OP2	2.21	0.41
11:AB:2033:DG:H2''	11:AB:5858:DC:OP1	2.20	0.41
11:AB:2045:DG:C8	11:AB:2046:DT:H72	2.55	0.41
11:AB:2108:DT:H1'	11:AB:2109:DC:H5'	2.02	0.41
11:AB:2139:DG:C8	11:AB:2140:DT:H72	2.55	0.41
11:AB:2173:DG:C8	11:AB:2174:DT:H72	2.55	0.41
11:AB:2175:DT:H1'	11:AB:2176:DC:H5'	2.02	0.41
11:AB:2204:DT:H1'	11:AB:2205:DC:H5'	2.02	0.41
11:AB:2318:DT:H1'	11:AB:2319:DC:H5'	2.02	0.41
11:AB:2334:DG:C8	11:AB:2335:DT:H72	2.55	0.41
11:AB:2429:DT:H2'	11:AB:2430:DT:H72	2.02	0.41
11:AB:2433:DA:H1'	11:AB:2434:DC:H5'	2.03	0.41
11:AB:2438:DT:H2'	11:AB:2439:DT:H72	2.02	0.41
11:AB:2545:DG:H2''	11:AB:2546:DA:OP2	2.21	0.41
11:AB:2560:DT:H2'	11:AB:2561:DT:H72	2.02	0.41
11:AB:2562:DA:H1'	11:AB:2563:DC:H5'	2.03	0.41
11:AB:2582:DA:H1'	11:AB:2583:DC:H5'	2.03	0.41
11:AB:2656:DG:C8	11:AB:2657:DT:H72	2.55	0.41
11:AB:2703:DT:H2'	11:AB:2704:DT:H72	2.02	0.41
11:AB:2726:DG:H2''	11:AB:2727:DA:O5'	2.21	0.41
11:AB:2743:DT:H1'	11:AB:2744:DC:H5'	2.02	0.41
11:AB:2766:DG:C8	11:AB:2767:DT:H72	2.55	0.41
11:AB:2782:DG:C8	11:AB:2783:DT:H72	2.55	0.41
11:AB:2786:DT:H2'	11:AB:2787:DT:H72	2.02	0.41
11:AB:2820:DT:H2'	11:AB:2821:DT:H72	2.02	0.41
11:AB:2844:DT:H2'	11:AB:2845:DT:H72	2.02	0.41
11:AB:2926:DG:C8	11:AB:2927:DT:H72	2.55	0.41
11:AB:2927:DT:H2'	11:AB:2928:DT:H72	2.02	0.41
11:AB:2944:DG:C8	11:AB:2945:DT:H72	2.55	0.41
11:AB:2956:DG:C8	11:AB:2957:DT:H72	2.55	0.41
11:AB:2977:DG:C8	11:AB:2978:DT:H72	2.55	0.41
11:AB:3002:DT:H1'	11:AB:3003:DC:H5'	2.02	0.41
11:AB:3046:DT:H1'	11:AB:3047:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3050:DA:H1'	11:AB:3051:DC:H5'	2.03	0.41
11:AB:3069:DG:C8	11:AB:3070:DT:H72	2.55	0.41
11:AB:3158:DT:H1'	11:AB:3159:DC:H5'	2.02	0.41
11:AB:3181:DG:C8	11:AB:3182:DT:H72	2.55	0.41
11:AB:3247:DG:C8	11:AB:3248:DT:H72	2.55	0.41
11:AB:3252:DG:C8	11:AB:3253:DT:H72	2.55	0.41
11:AB:3345:DT:H1'	11:AB:3346:DC:H5'	2.02	0.41
11:AB:3354:DT:H2'	11:AB:3355:DT:H72	2.02	0.41
11:AB:3381:DG:H2''	11:AB:3382:DA:OP2	2.21	0.41
11:AB:3409:DG:C8	11:AB:3410:DT:H72	2.55	0.41
11:AB:3426:DT:H2'	11:AB:3427:DT:H72	2.02	0.41
11:AB:3436:DT:H1'	11:AB:3437:DC:H5'	2.02	0.41
11:AB:3453:DT:H1'	11:AB:3454:DC:H5'	2.02	0.41
11:AB:3467:DT:H2'	11:AB:3468:DT:H72	2.02	0.41
11:AB:3476:DG:C8	11:AB:3477:DT:H72	2.55	0.41
11:AB:3508:DT:H1'	11:AB:3509:DC:H5'	2.02	0.41
11:AB:3518:DG:C8	11:AB:3519:DT:H72	2.55	0.41
11:AB:3530:DG:H2''	11:AB:4791:DC:OP1	2.20	0.41
11:AB:3542:DG:H2''	11:AB:3543:DC:OP2	2.19	0.41
11:AB:3544:DG:H2''	11:AB:3545:DA:OP2	2.21	0.41
11:AB:3571:DT:H2'	11:AB:3572:DT:H72	2.02	0.41
11:AB:3638:DG:C8	11:AB:3639:DT:H72	2.55	0.41
11:AB:3650:DT:H1'	11:AB:4659:DC:H5'	2.02	0.41
11:AB:3694:DT:H1'	11:AB:3695:DC:H5'	2.02	0.41
11:AB:3716:DT:H2'	11:AB:3717:DT:H72	2.02	0.41
11:AB:3721:DA:H1'	11:AB:3722:DC:H5'	2.03	0.41
11:AB:3723:DG:H2''	11:AB:3724:DA:O5'	2.21	0.41
11:AB:3725:DT:H2'	11:AB:3726:DT:H72	2.02	0.41
11:AB:3729:DG:H2''	11:AB:3730:DC:OP2	2.19	0.41
11:AB:3746:DT:H2'	11:AB:3747:DT:H72	2.02	0.41
11:AB:3747:DT:H2'	11:AB:3748:DT:H72	2.02	0.41
11:AB:3762:DT:H1'	11:AB:3763:DC:H5'	2.02	0.41
11:AB:3814:DG:H2''	11:AB:3815:DA:O5'	2.21	0.41
11:AB:3822:DG:H2''	11:AB:3823:DA:OP2	2.21	0.41
11:AB:3834:DT:H1'	11:AB:3835:DC:H5'	2.02	0.41
11:AB:3863:DG:H2''	11:AB:3864:DA:O5'	2.21	0.41
11:AB:3866:DG:C8	11:AB:3867:DT:H72	2.55	0.41
11:AB:3886:DT:H2'	11:AB:3887:DT:H72	2.02	0.41
11:AB:3890:DG:C8	11:AB:3891:DT:H72	2.55	0.41
11:AB:3892:DG:H2''	11:AB:3893:DA:OP2	2.21	0.41
11:AB:3901:DA:H1'	11:AB:3902:DC:H5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3937:DA:H1'	11:AB:3938:DC:H5'	2.03	0.41
11:AB:3940:DT:H1'	11:AB:3941:DC:H5'	2.02	0.41
11:AB:3966:DG:C8	11:AB:3967:DT:H72	2.55	0.41
11:AB:4004:DG:H2''	11:AB:4005:DC:OP2	2.20	0.41
11:AB:4016:DA:H1'	11:AB:4017:DC:H5'	2.03	0.41
11:AB:4101:DT:H2'	11:AB:4102:DT:H72	2.02	0.41
11:AB:4235:DT:H2'	11:AB:4236:DT:H72	2.02	0.41
11:AB:4293:DG:C8	11:AB:4294:DT:H72	2.55	0.41
11:AB:4311:DG:H2''	11:AB:4312:DA:O5'	2.21	0.41
11:AB:4320:DT:H1'	11:AB:4321:DC:H5'	2.02	0.41
11:AB:4365:DG:C8	11:AB:4366:DT:H72	2.55	0.41
11:AB:4396:DT:H1'	11:AB:4397:DC:H5'	2.02	0.41
11:AB:4440:DA:H1'	11:AB:4441:DC:H5'	2.03	0.41
11:AB:4520:DG:H2''	11:AB:4521:DA:O5'	2.21	0.41
11:AB:4633:DG:H2''	11:AB:4634:DA:O5'	2.21	0.41
11:AB:4689:DG:H2''	11:AB:4690:DC:OP2	2.20	0.41
11:AB:4691:DT:H1'	11:AB:4692:DC:H5'	2.02	0.41
11:AB:4714:DT:H2'	11:AB:4715:DT:H72	2.02	0.41
11:AB:4745:DG:C8	11:AB:4746:DT:H72	2.55	0.41
11:AB:4768:DT:H2'	11:AB:4769:DT:H72	2.02	0.41
11:AB:4799:DA:H1'	11:AB:4800:DC:H5'	2.03	0.41
11:AB:4804:DT:H2'	11:AB:4805:DT:H72	2.02	0.41
11:AB:4814:DG:C8	11:AB:4815:DT:H72	2.55	0.41
11:AB:4816:DA:H1'	11:AB:4817:DC:H5'	2.03	0.41
11:AB:4823:DG:H2''	11:AB:4824:DA:OP2	2.21	0.41
11:AB:4825:DT:H1'	11:AB:4826:DC:H5'	2.02	0.41
11:AB:5022:DT:H2'	11:AB:5023:DT:H72	2.02	0.41
11:AB:5031:DT:H2'	11:AB:5032:DT:H72	2.02	0.41
11:AB:5197:DT:H1'	11:AB:5198:DC:H5'	2.02	0.41
11:AB:5201:DA:H1'	11:AB:5202:DC:H5'	2.03	0.41
11:AB:5329:DT:H2'	11:AB:5330:DT:H72	2.02	0.41
11:AB:5330:DT:H2'	11:AB:5331:DT:H72	2.02	0.41
11:AB:5375:DT:H1'	11:AB:5376:DC:H5'	2.02	0.41
11:AB:5383:DT:H2'	11:AB:5384:DT:H72	2.02	0.41
11:AB:5448:DG:C8	11:AB:5449:DT:H72	2.55	0.41
11:AB:5450:DT:H1'	11:AB:5451:DC:H5'	2.02	0.41
11:AB:5458:DT:H1'	11:AB:5459:DC:H5'	2.02	0.41
11:AB:5488:DG:H2''	11:AB:5489:DA:O5'	2.21	0.41
11:AB:5508:DT:H1'	11:AB:5509:DC:H5'	2.02	0.41
11:AB:5590:DT:H1'	11:AB:5591:DC:H5'	2.02	0.41
11:AB:5599:DT:H1'	11:AB:5600:DC:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5623:DA:H1'	11:AB:5624:DC:H5'	2.03	0.41
11:AB:5644:DT:H2'	11:AB:5645:DT:H72	2.02	0.41
11:AB:5660:DG:C8	11:AB:5661:DT:H72	2.55	0.41
11:AB:5676:DT:H1'	11:AB:5677:DC:H5'	2.02	0.41
11:AB:5743:DG:H2''	11:AB:5744:DA:OP2	2.21	0.41
11:AB:5780:DT:H2'	11:AB:5781:DT:H72	2.02	0.41
11:AB:5848:DG:H2''	11:AB:5849:DC:OP2	2.19	0.41
11:AB:5956:DG:H2''	11:AB:5957:DA:O5'	2.21	0.41
11:AB:5982:DT:H2'	11:AB:5983:DT:H72	2.02	0.41
11:AB:6020:DT:H2'	11:AB:6021:DT:H72	2.02	0.41
11:AB:6033:DT:H2'	11:AB:6034:DT:H72	2.02	0.41
11:AB:6052:DT:H1'	11:AB:6053:DC:H5'	2.02	0.41
11:AB:6057:DG:H2''	11:AB:6058:DC:OP2	2.20	0.41
11:AB:6081:DT:H1'	11:AB:6082:DC:H5'	2.02	0.41
11:AB:6206:DT:H2'	11:AB:6207:DT:H72	2.02	0.41
11:AB:6275:DT:H1'	11:AB:6276:DC:H5'	2.02	0.41
11:AB:6283:DT:H1'	11:AB:6284:DC:H5'	2.02	0.41
11:AB:6293:DT:H2'	11:AB:6294:DT:H72	2.02	0.41
11:AB:6340:DG:C8	11:AB:6341:DT:H72	2.55	0.41
11:AB:6363:DA:H1'	11:AB:6364:DC:H5'	2.03	0.41
11:AB:6400:DG:H2''	11:AB:6401:DC:OP2	2.20	0.41
11:AB:6424:DT:H2'	11:AB:6425:DT:H72	2.02	0.41
11:AB:6512:DT:H2'	11:AB:6513:DT:H72	2.02	0.41
11:AB:6532:DT:H1'	11:AB:6533:DC:H5'	2.02	0.41
11:AB:6543:DG:H2''	11:AB:6544:DA:OP2	2.21	0.41
11:AB:6569:DT:H2'	11:AB:6570:DT:H72	2.02	0.41
11:AB:6590:DA:H1'	11:AB:6591:DC:H5'	2.03	0.41
11:AB:6660:DA:H1'	11:AB:6661:DC:H5'	2.03	0.41
11:AB:6683:DA:H1'	11:AB:6684:DC:H5'	2.03	0.41
11:AB:6758:DT:H2'	11:AB:6759:DT:H72	2.02	0.41
11:AB:6791:DT:H1'	11:AB:6792:DC:H5'	2.02	0.41
11:AB:6808:DT:H2'	11:AB:6809:DT:H72	2.02	0.41
11:AB:6818:DT:H1'	11:AB:6819:DC:H5'	2.02	0.41
11:AB:6850:DT:H2'	11:AB:6851:DT:H72	2.02	0.41
11:AB:6871:DT:H2'	11:AB:6872:DT:H72	2.02	0.41
11:AB:6889:DT:H2'	11:AB:6890:DT:H72	2.02	0.41
11:AB:6913:DT:H2'	11:AB:6914:DT:H72	2.02	0.41
11:AB:6994:DT:H2'	11:AB:6995:DT:H72	2.02	0.41
11:AB:7019:DG:C8	11:AB:7020:DT:H72	2.55	0.41
11:AB:7048:DT:H2'	11:AB:7049:DT:H72	2.02	0.41
11:AB:7055:DT:H2'	11:AB:7056:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:7057:DT:H1'	11:AB:7058:DC:H5'	2.02	0.41
11:AB:7123:DG:H2''	11:AB:7124:DA:OP2	2.21	0.41
11:AB:7151:DG:C8	11:AB:7152:DT:H72	2.55	0.41
11:AB:7174:DG:H2''	11:AB:7175:DA:O5'	2.21	0.41
11:AB:7197:DG:C8	11:AB:7198:DT:H72	2.55	0.41
12:AC:17:DC:OP1	109:J8:28:DG:H2''	2.20	0.41
14:B1:39:DG:C8	14:B1:40:DT:H72	2.55	0.41
17:B4:19:DT:H1'	17:B4:20:DC:H5'	2.02	0.41
18:B5:19:DT:H2'	18:B5:20:DT:H72	2.02	0.41
18:B5:22:DC:H5'	156:O2:21:DA:H1'	2.03	0.41
21:B8:10:DT:H1'	21:B8:11:DC:H5'	2.01	0.41
21:B8:12:DG:C8	21:B8:13:DT:H72	2.55	0.41
21:B8:23:DT:H2'	21:B8:24:DT:H72	2.02	0.41
22:B9:45:DG:H2''	22:B9:46:DA:O5'	2.21	0.41
23:BA:7:DT:H1'	23:BA:8:DC:H5'	2.02	0.41
24:BC:6:DG:H2''	24:BC:7:DA:OP2	2.21	0.41
24:BC:12:DG:H2''	24:BC:13:DA:O5'	2.21	0.41
25:BD:8:DA:H1'	25:BD:9:DC:H5'	2.03	0.41
26:C1:19:DG:H2''	26:C1:20:DA:O5'	2.21	0.41
28:C3:15:DG:H2''	28:C3:16:DA:O5'	2.21	0.41
29:C5:33:DG:H2''	29:C5:34:DA:OP2	2.21	0.41
31:C7:20:DG:H2''	31:C7:21:DA:O5'	2.21	0.41
31:C7:23:DG:C8	31:C7:24:DT:H72	2.55	0.41
32:C8:11:DT:H2'	32:C8:12:DT:H72	2.01	0.41
32:C8:19:DG:H2''	32:C8:20:DA:OP2	2.21	0.41
32:C8:37:DG:H2''	32:C8:38:DA:OP2	2.21	0.41
32:C8:43:DT:H1'	32:C8:44:DC:H5'	2.02	0.41
32:C8:50:DT:H2'	32:C8:51:DT:H72	2.02	0.41
35:CC:18:DG:C8	35:CC:19:DT:H72	2.55	0.41
36:CD:14:DG:C8	156:O2:43:DT:H72	2.55	0.41
37:D1:29:DC:H5'	138:M5:7:DA:H1'	2.03	0.41
37:D1:36:DG:H2''	37:D1:37:DC:OP2	2.19	0.41
38:D2:6:DG:H2''	38:D2:7:DA:OP2	2.21	0.41
39:D3:3:DG:C8	39:D3:4:DT:H72	2.55	0.41
39:D3:12:DT:H1'	39:D3:13:DC:H5'	2.02	0.41
40:D5:21:DT:H2'	40:D5:22:DT:H72	2.02	0.41
41:D6:9:DG:H2''	41:D6:10:DA:OP2	2.21	0.41
41:D6:15:DA:H1'	41:D6:16:DC:H5'	2.03	0.41
41:D6:22:DC:OP1	211:TD:21:DG:H2''	2.19	0.41
43:D8:19:DT:H1'	43:D8:20:DC:H5'	2.02	0.41
43:D8:37:DG:H2''	43:D8:38:DA:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:D8:40:DG:H2''	43:D8:41:DA:OP2	2.21	0.41
47:DD:34:DG:H2''	47:DD:35:DA:OP2	2.21	0.41
48:E1:7:DG:H2''	231:W5:21:DA:OP1	2.21	0.41
49:E2:34:DG:C8	49:E2:35:DT:H72	2.55	0.41
51:E5:8:DG:C8	51:E5:9:DT:H72	2.55	0.41
51:E5:14:DT:H72	93:I2:21:DG:C8	2.55	0.41
51:E5:25:DG:H2''	51:E5:26:DC:OP2	2.20	0.41
51:E5:33:DA:H1'	51:E5:34:DC:H5'	2.03	0.41
52:E6:1:DT:H2'	52:E6:2:DT:H72	2.02	0.41
52:E6:28:DG:H2''	52:E6:29:DA:OP2	2.21	0.41
55:E9:28:DT:H72	80:GD:13:DG:C8	2.55	0.41
55:E9:32:DT:H2'	55:E9:33:DT:H72	2.02	0.41
59:F1:12:DT:H1'	59:F1:13:DC:H5'	2.02	0.41
59:F1:18:DG:H2''	59:F1:19:DA:OP2	2.21	0.41
60:F2:5:DG:H2''	60:F2:6:DC:OP2	2.19	0.41
60:F2:30:DT:H2'	60:F2:31:DT:H72	2.02	0.41
62:F5:8:DT:H2'	62:F5:9:DT:H72	2.02	0.41
64:F7:4:DT:H1'	108:J7:15:DC:H5'	2.02	0.41
64:F7:24:DG:C8	64:F7:25:DT:H72	2.55	0.41
66:F9:5:DG:H2''	66:F9:6:DA:O5'	2.21	0.41
67:FA:1:DG:H2''	67:FA:2:DA:O5'	2.21	0.41
67:FA:11:DT:H1'	67:FA:12:DC:H5'	2.02	0.41
68:FC:14:DG:C8	68:FC:15:DT:H72	2.55	0.41
70:G1:16:DG:C8	70:G1:17:DT:H72	2.55	0.41
74:G6:19:DT:H2'	74:G6:20:DT:H72	2.02	0.41
74:G6:31:DA:OP1	213:U3:14:DG:H2''	2.21	0.41
75:G7:24:DG:C8	75:G7:25:DT:H72	2.55	0.41
75:G7:26:DG:H2''	75:G7:27:DC:OP2	2.19	0.41
79:GC:21:DG:C8	79:GC:22:DT:H72	2.55	0.41
82:H2:28:DT:H72	160:O7:5:DG:C8	2.55	0.41
82:H2:55:DG:H2''	108:J7:1:DA:OP1	2.21	0.41
84:H5:1:DA:OP1	128:L5:23:DG:H2''	2.21	0.41
84:H5:30:DT:H1'	84:H5:31:DC:H5'	2.02	0.41
84:H5:34:DC:H5'	168:P5:6:DA:H1'	2.03	0.41
85:H6:27:DA:H1'	85:H6:28:DC:H5'	2.03	0.41
87:H8:10:DA:H1'	87:H8:11:DC:H5'	2.03	0.41
88:H9:18:DA:H1'	88:H9:19:DC:H5'	2.03	0.41
91:HD:13:DT:H2'	91:HD:14:DT:H72	2.02	0.41
91:HD:15:DG:H2''	91:HD:16:DA:O5'	2.21	0.41
94:I3:11:DC:H5'	165:OD:42:DA:H1'	2.03	0.41
94:I3:17:DG:H2''	229:VD:11:DA:OP1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
95:I5:5:DT:H2'	95:I5:6:DT:H72	2.02	0.41
97:I7:33:DG:H2''	97:I7:34:DA:OP2	2.21	0.41
98:I8:37:DG:H2''	123:KC:17:DA:OP1	2.21	0.41
101:IC:13:DG:H2''	101:IC:14:DA:OP2	2.21	0.41
102:ID:15:DT:H2'	102:ID:16:DT:H72	2.02	0.41
102:ID:21:DG:H2''	102:ID:22:DA:OP2	2.21	0.41
104:J2:6:DA:H1'	104:J2:7:DC:H5'	2.03	0.41
104:J2:19:DT:H2'	104:J2:20:DT:H72	2.02	0.41
106:J5:34:DG:H2''	106:J5:35:DA:OP2	2.21	0.41
108:J7:3:DT:H2'	108:J7:4:DT:H72	2.02	0.41
109:J8:44:DG:H2''	109:J8:45:DA:OP2	2.21	0.41
113:JD:15:DT:H72	132:L9:14:DG:C8	2.55	0.41
113:JD:29:DT:H72	218:UA:14:DG:C8	2.55	0.41
114:K1:23:DT:H1'	114:K1:24:DC:H5'	2.02	0.41
114:K1:40:DT:H2'	114:K1:41:DT:H72	2.02	0.41
116:K3:6:DG:H2''	116:K3:7:DA:OP2	2.21	0.41
116:K3:10:DG:C8	116:K3:11:DT:H72	2.55	0.41
117:K5:18:DA:H1'	117:K5:19:DC:H5'	2.03	0.41
117:K5:37:DT:H2'	117:K5:38:DT:H72	2.02	0.41
117:K5:40:DG:H2''	117:K5:41:DC:OP2	2.19	0.41
119:K7:13:DG:H2''	119:K7:14:DA:OP2	2.21	0.41
120:K8:1:DT:H1'	120:K8:2:DC:H5'	2.02	0.41
120:K8:10:DG:H2''	120:K8:11:DA:OP2	2.21	0.41
120:K8:20:DT:H1'	120:K8:21:DC:H5'	2.02	0.41
121:K9:20:DG:C8	200:SA:17:DT:H72	2.55	0.41
122:KA:1:DA:H1'	122:KA:2:DC:H5'	2.03	0.41
122:KA:29:DT:H72	124:KD:16:DG:C8	2.55	0.41
126:L2:10:DT:H2'	126:L2:11:DT:H72	2.02	0.41
128:L5:5:DT:H1'	128:L5:6:DC:H5'	2.02	0.41
130:L7:6:DG:H2''	130:L7:7:DA:OP2	2.21	0.41
130:L7:34:DG:H2''	130:L7:35:DA:OP2	2.21	0.41
131:L8:23:DA:H1'	131:L8:24:DC:H5'	2.03	0.41
132:L9:15:DA:H1'	132:L9:16:DC:H5'	2.03	0.41
133:LA:3:DG:C8	133:LA:4:DT:H72	2.55	0.41
136:M2:6:DG:H2''	136:M2:7:DC:OP2	2.19	0.41
136:M2:12:DT:H2'	136:M2:13:DT:H72	2.02	0.41
142:M9:23:DT:H2'	218:UA:1:DT:H72	2.02	0.41
144:MC:1:DG:H2''	144:MC:2:DA:O5'	2.21	0.41
144:MC:15:DT:H2'	144:MC:16:DT:H72	2.02	0.41
146:N2:4:DT:H1'	146:N2:5:DC:H5'	2.02	0.41
147:N3:5:DG:H2''	147:N3:6:DC:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
147:N3:16:DT:H1'	147:N3:17:DC:H5'	2.02	0.41
148:N5:13:DT:H1'	148:N5:14:DC:H5'	2.02	0.41
152:N9:20:DT:H2'	152:N9:21:DT:H72	2.02	0.41
154:NC:10:DG:C8	174:PC:21:DT:H72	2.55	0.41
154:NC:15:DT:H2'	154:NC:16:DT:H72	2.02	0.41
154:NC:18:DT:H2'	154:NC:19:DT:H72	2.02	0.41
156:O2:4:DT:H1'	156:O2:5:DC:H5'	2.02	0.41
156:O2:35:DA:H1'	196:S5:8:DC:H5'	2.03	0.41
156:O2:50:DC:H5'	238:X9:38:DT:H1'	2.02	0.41
158:O5:21:DC:H5'	212:U2:16:DA:H1'	2.03	0.41
159:O6:5:DG:H2''	159:O6:6:DC:OP2	2.20	0.41
160:O7:24:DT:H2'	160:O7:25:DT:H72	2.02	0.41
161:O8:53:DG:H2''	161:O8:54:DC:OP2	2.19	0.41
165:OD:29:DG:H2''	165:OD:30:DA:O5'	2.21	0.41
166:P2:34:DT:H2'	166:P2:35:DT:H72	2.02	0.41
173:PA:24:DT:H2'	173:PA:25:DT:H72	2.02	0.41
174:PC:5:DA:H1'	174:PC:6:DC:H5'	2.03	0.41
174:PC:14:DG:H2''	174:PC:15:DA:O5'	2.21	0.41
177:Q3:11:DT:H2'	177:Q3:12:DT:H72	2.02	0.41
177:Q3:14:DA:H1'	177:Q3:15:DC:H5'	2.03	0.41
177:Q3:17:DT:H1'	177:Q3:18:DC:H5'	2.02	0.41
178:Q5:11:DT:H1'	178:Q5:12:DC:H5'	2.02	0.41
178:Q5:15:DG:H2''	178:Q5:16:DA:O5'	2.21	0.41
179:Q7:13:DG:C8	179:Q7:14:DT:H72	2.55	0.41
181:Q9:19:DA:OP1	234:W9:14:DG:H2''	2.21	0.41
181:Q9:24:DA:H1'	181:Q9:25:DC:H5'	2.03	0.41
181:Q9:35:DT:H2'	181:Q9:36:DT:H72	2.02	0.41
184:QD:1:DA:H1'	184:QD:2:DC:H5'	2.03	0.41
184:QD:12:DT:H2'	184:QD:13:DT:H72	2.02	0.41
184:QD:19:DT:H1'	184:QD:20:DC:H5'	2.02	0.41
186:R3:17:DT:H1'	186:R3:18:DC:H5'	2.02	0.41
187:R5:8:DA:H1'	187:R5:9:DC:H5'	2.03	0.41
187:R5:37:DG:H2''	187:R5:38:DA:OP2	2.21	0.41
189:R8:31:DG:H2''	189:R8:32:DA:O5'	2.21	0.41
191:RA:18:DT:H2'	191:RA:19:DT:H72	2.02	0.41
192:RC:17:DT:H2'	192:RC:18:DT:H72	2.02	0.41
192:RC:22:DT:H1'	192:RC:23:DC:H5'	2.02	0.41
193:RD:7:DA:H1'	193:RD:8:DC:H5'	2.03	0.41
194:S2:1:DT:H1'	194:S2:2:DC:H5'	2.02	0.41
194:S2:18:DG:H2''	194:S2:19:DA:OP2	2.21	0.41
194:S2:25:DG:C8	194:S2:26:DT:H72	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
195:S3:12:DT:H2'	195:S3:13:DT:H72	2.02	0.41
197:S7:1:DA:H1'	197:S7:2:DC:H5'	2.03	0.41
199:S9:22:DG:H2''	199:S9:23:DA:O5'	2.21	0.41
204:T3:42:DA:H1'	204:T3:43:DC:H5'	2.03	0.41
205:T5:22:DG:H2''	205:T5:23:DA:O5'	2.21	0.41
206:T7:2:DG:H2''	206:T7:3:DC:OP2	2.19	0.41
206:T7:50:DG:H2''	206:T7:51:DA:OP2	2.21	0.41
207:T8:9:DG:C8	207:T8:10:DT:H72	2.55	0.41
207:T8:23:DG:C8	207:T8:24:DT:H72	2.55	0.41
209:TA:38:DA:H1'	209:TA:39:DC:H5'	2.03	0.41
210:TC:7:DT:H1'	210:TC:8:DC:H5'	2.02	0.41
211:TD:13:DG:C8	211:TD:14:DT:H72	2.55	0.41
211:TD:37:DT:H1'	211:TD:38:DC:H5'	2.02	0.41
212:U2:24:DA:H1'	212:U2:25:DC:H5'	2.03	0.41
213:U3:3:DT:H1'	213:U3:4:DC:H5'	2.02	0.41
213:U3:19:DG:H2''	213:U3:20:DC:OP2	2.20	0.41
214:U5:8:DG:H2''	214:U5:9:DC:OP2	2.19	0.41
214:U5:19:DT:H2'	214:U5:20:DT:H72	2.02	0.41
215:U7:14:DG:C8	215:U7:15:DT:H72	2.55	0.41
218:UA:9:DT:H1'	218:UA:10:DC:H5'	2.02	0.41
221:V2:26:DA:H1'	221:V2:27:DC:H5'	2.03	0.41
223:V5:7:DG:H2''	223:V5:8:DA:O5'	2.21	0.41
223:V5:10:DG:H2''	223:V5:11:DC:OP2	2.19	0.41
224:V7:14:DT:H1'	224:V7:15:DC:H5'	2.02	0.41
225:V8:25:DA:H1'	225:V8:26:DC:H5'	2.03	0.41
227:VA:26:DA:H1'	227:VA:27:DC:H5'	2.03	0.41
230:W3:34:DA:H1'	230:W3:35:DC:H5'	2.03	0.41
231:W5:9:DT:H2'	231:W5:10:DT:H72	2.02	0.41
231:W5:31:DT:H1'	231:W5:32:DC:H5'	2.02	0.41
232:W7:10:DT:H2'	232:W7:11:DT:H72	2.02	0.41
232:W7:21:DT:H1'	232:W7:22:DC:H5'	2.02	0.41
233:W8:6:DT:H2'	233:W8:7:DT:H72	2.02	0.41
237:X7:14:DA:H1'	237:X7:15:DC:H5'	2.03	0.41
2:A2:11:DG:H2''	2:A2:12:DC:OP2	2.19	0.41
7:A7:22:DT:H1'	7:A7:23:DC:H5'	2.02	0.41
9:A9:15:DT:H2'	9:A9:16:DT:H72	2.02	0.41
10:AA:17:DG:H2''	10:AA:18:DC:OP2	2.19	0.41
11:AB:119:DT:H2'	11:AB:120:DT:H72	2.02	0.41
11:AB:131:DT:H2'	11:AB:132:DT:H72	2.02	0.41
11:AB:152:DG:H2''	11:AB:153:DA:O5'	2.21	0.41
11:AB:307:DG:H2''	11:AB:308:DC:OP2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:342:DA:H1'	11:AB:343:DC:H5'	2.03	0.41
11:AB:369:DA:H1'	11:AB:370:DC:H5'	2.03	0.41
11:AB:394:DT:H1'	11:AB:395:DC:H5'	2.02	0.41
11:AB:494:DT:H1'	11:AB:495:DC:H5'	2.02	0.41
11:AB:504:DA:H1'	11:AB:505:DC:H5'	2.03	0.41
11:AB:898:DG:C8	11:AB:899:DT:H72	2.55	0.41
11:AB:906:DG:H2''	11:AB:907:DA:OP2	2.21	0.41
11:AB:966:DT:H1'	11:AB:967:DC:H5'	2.02	0.41
11:AB:1053:DG:H2''	11:AB:1054:DC:OP2	2.19	0.41
11:AB:1241:DT:H2'	11:AB:1242:DT:H72	2.02	0.41
11:AB:1257:DG:C8	11:AB:1258:DT:H72	2.55	0.41
11:AB:1350:DT:H2'	11:AB:1351:DT:H72	2.02	0.41
11:AB:1561:DT:H1'	11:AB:1562:DC:H5'	2.02	0.41
11:AB:1569:DT:H2'	11:AB:1570:DT:H72	2.02	0.41
11:AB:1625:DT:H1'	11:AB:1626:DC:H5'	2.02	0.41
11:AB:1669:DG:H2''	11:AB:1670:DC:OP2	2.19	0.41
11:AB:1690:DT:H1'	11:AB:1691:DC:H5'	2.02	0.41
11:AB:1770:DG:H2''	11:AB:1771:DC:OP2	2.19	0.41
11:AB:1789:DG:H2''	11:AB:1790:DC:OP2	2.19	0.41
11:AB:1800:DT:H1'	11:AB:1801:DC:H5'	2.02	0.41
11:AB:2276:DT:H1'	11:AB:2277:DC:H5'	2.02	0.41
11:AB:2548:DT:H2'	11:AB:2549:DT:H72	2.02	0.41
11:AB:2616:DA:H1'	11:AB:2617:DC:H5'	2.03	0.41
11:AB:2651:DT:H1'	11:AB:2652:DC:H5'	2.02	0.41
11:AB:2672:DT:H1'	11:AB:2673:DC:H5'	2.02	0.41
11:AB:2707:DT:H2'	11:AB:2708:DT:H72	2.02	0.41
11:AB:2830:DT:H2'	11:AB:2831:DT:H72	2.02	0.41
11:AB:2848:DT:H2'	11:AB:2849:DT:H72	2.02	0.41
11:AB:2896:DA:H1'	11:AB:2897:DC:H5'	2.03	0.41
11:AB:2905:DT:H1'	11:AB:2906:DC:H5'	2.02	0.41
11:AB:3109:DT:H1'	11:AB:3110:DC:H5'	2.02	0.41
11:AB:3120:DT:H1'	11:AB:3121:DC:H5'	2.02	0.41
11:AB:3209:DT:H2'	11:AB:3210:DT:H72	2.02	0.41
11:AB:3230:DG:H2''	11:AB:3231:DA:O5'	2.21	0.41
11:AB:3271:DT:H1'	11:AB:3272:DC:H5'	2.02	0.41
11:AB:3387:DG:H2''	11:AB:3388:DA:O5'	2.21	0.41
11:AB:3403:DT:H2'	11:AB:3404:DT:H72	2.02	0.41
11:AB:3424:DG:H2''	11:AB:3425:DC:OP2	2.19	0.41
11:AB:3439:DT:H2'	11:AB:3440:DT:H72	2.02	0.41
11:AB:3463:DA:H1'	11:AB:3464:DC:H5'	2.03	0.41
11:AB:3484:DA:H1'	11:AB:3485:DC:H5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3564:DT:H1'	11:AB:3565:DC:H5'	2.02	0.41
11:AB:3584:DG:H2''	11:AB:3585:DC:OP2	2.19	0.41
11:AB:3979:DT:H2'	11:AB:3980:DT:H72	2.02	0.41
11:AB:4048:DG:H2''	11:AB:4049:DC:OP2	2.19	0.41
11:AB:4071:DG:H2''	11:AB:4072:DC:OP2	2.19	0.41
11:AB:4251:DA:H1'	11:AB:4252:DC:H5'	2.03	0.41
11:AB:4372:DA:H1'	11:AB:4373:DC:H5'	2.03	0.41
11:AB:4435:DT:H1'	11:AB:4436:DC:H5'	2.02	0.41
11:AB:4443:DA:H1'	11:AB:4444:DC:H5'	2.03	0.41
11:AB:4611:DG:H2''	11:AB:4612:DA:O5'	2.21	0.41
11:AB:4716:DA:H1'	11:AB:4717:DC:H5'	2.03	0.41
11:AB:4741:DT:H2'	11:AB:4742:DT:H72	2.02	0.41
11:AB:4964:DG:H2''	11:AB:4965:DA:O5'	2.21	0.41
11:AB:4980:DG:H2''	11:AB:4981:DC:OP2	2.19	0.41
11:AB:5048:DG:C8	11:AB:5049:DT:H72	2.55	0.41
11:AB:5050:DG:H2''	11:AB:5051:DC:OP2	2.19	0.41
11:AB:5257:DG:H2''	11:AB:5258:DA:O5'	2.21	0.41
11:AB:5262:DG:H2''	11:AB:5263:DA:OP2	2.21	0.41
11:AB:5277:DG:H2''	11:AB:5278:DC:OP2	2.19	0.41
11:AB:5344:DA:H1'	11:AB:5345:DC:H5'	2.03	0.41
11:AB:5346:DG:C8	11:AB:5347:DT:H72	2.55	0.41
11:AB:5393:DT:H2'	11:AB:5394:DT:H72	2.02	0.41
11:AB:5457:DT:H2'	11:AB:5458:DT:H72	2.01	0.41
11:AB:5493:DG:H2''	11:AB:5494:DA:O5'	2.21	0.41
11:AB:5673:DT:H2'	11:AB:5674:DT:H72	2.02	0.41
11:AB:5697:DT:H2'	11:AB:5698:DT:H72	2.02	0.41
11:AB:5808:DT:H2'	11:AB:5809:DT:H72	2.02	0.41
11:AB:5990:DA:H1'	11:AB:5991:DC:H5'	2.03	0.41
11:AB:6030:DG:H2''	11:AB:6031:DC:OP2	2.19	0.41
11:AB:6106:DT:H1'	11:AB:6107:DC:H5'	2.02	0.41
11:AB:6225:DT:H2'	11:AB:6226:DT:H72	2.02	0.41
11:AB:6240:DT:H1'	11:AB:6241:DC:H5'	2.02	0.41
11:AB:6257:DT:H2'	11:AB:6258:DT:H72	2.02	0.41
11:AB:6282:DT:H2'	11:AB:6283:DT:H72	2.02	0.41
11:AB:6347:DA:H1'	11:AB:6348:DC:H5'	2.03	0.41
11:AB:6445:DG:H2''	11:AB:6446:DA:OP2	2.21	0.41
11:AB:6458:DG:C8	11:AB:6459:DT:H72	2.55	0.41
11:AB:6546:DT:H1'	11:AB:6547:DC:H5'	2.01	0.41
11:AB:6657:DT:H2'	11:AB:6658:DT:H72	2.02	0.41
11:AB:6699:DT:H2'	11:AB:6700:DT:H72	2.02	0.41
11:AB:6710:DT:H2'	11:AB:6711:DT:H72	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6775:DG:C8	11:AB:6776:DT:H72	2.55	0.41
11:AB:6907:DG:H2''	11:AB:6908:DC:OP2	2.19	0.41
11:AB:6931:DG:H2''	11:AB:6932:DA:OP2	2.21	0.41
11:AB:6997:DG:H2''	11:AB:6998:DC:OP2	2.19	0.41
11:AB:7034:DT:H2'	11:AB:7035:DT:H72	2.02	0.41
11:AB:7053:DT:H1'	11:AB:7054:DC:H5'	2.02	0.41
12:AC:20:DG:OP1	76:G8:1:DG:OP2	2.39	0.41
13:AD:35:DT:H2'	13:AD:36:DT:H72	2.02	0.41
14:B1:27:DG:H2''	14:B1:28:DA:O5'	2.21	0.41
22:B9:11:DG:OP1	67:FA:32:DG:OP1	2.39	0.41
28:C3:8:DG:C8	28:C3:9:DT:H72	2.55	0.41
33:C9:26:DT:H2'	33:C9:27:DT:H72	2.02	0.41
35:CC:22:DG:H2''	35:CC:23:DA:O5'	2.21	0.41
37:D1:41:DA:H1'	37:D1:42:DC:H5'	2.03	0.41
38:D2:2:DA:H1'	38:D2:3:DC:H5'	2.03	0.41
39:D3:29:DG:OP1	202:SD:10:DG:OP1	2.39	0.41
41:D6:40:DT:H2'	41:D6:41:DT:H72	2.02	0.41
42:D7:5:DT:H2'	42:D7:6:DT:H72	2.02	0.41
48:E1:12:DG:H2''	48:E1:13:DC:OP2	2.20	0.41
54:E8:33:DT:H1'	54:E8:34:DC:H5'	2.02	0.41
62:F5:15:DA:H1'	62:F5:16:DC:H5'	2.03	0.41
71:G2:19:DA:H1'	71:G2:20:DC:H5'	2.03	0.41
77:G9:4:DA:H1'	77:G9:5:DC:H5'	2.03	0.41
81:H1:18:DT:H2'	81:H1:19:DT:H72	2.02	0.41
82:H2:36:DG:C8	82:H2:37:DT:H72	2.55	0.41
90:HC:22:DA:H1'	90:HC:23:DC:H5'	2.03	0.41
90:HC:25:DG:H2''	90:HC:26:DA:OP2	2.21	0.41
92:I1:15:DG:H2''	92:I1:16:DA:O5'	2.21	0.41
93:I2:35:DA:H1'	236:X5:17:DC:H5'	2.03	0.41
94:I3:4:DA:H1'	94:I3:5:DC:H5'	2.03	0.41
94:I3:51:DA:H1'	94:I3:52:DC:H5'	2.03	0.41
98:I8:8:DA:H1'	98:I8:9:DC:H5'	2.03	0.41
98:I8:42:DT:H2'	98:I8:43:DT:H72	2.02	0.41
102:ID:24:DG:H2''	102:ID:25:DA:OP2	2.21	0.41
102:ID:32:DG:C8	102:ID:33:DT:H72	2.55	0.41
105:J3:18:DT:H2'	105:J3:19:DT:H72	2.02	0.41
109:J8:1:DA:OP1	120:K8:4:DG:H2''	2.21	0.41
113:JD:5:DG:H2''	113:JD:6:DA:OP2	2.21	0.41
114:K1:26:DG:H2''	114:K1:27:DA:O5'	2.21	0.41
114:K1:31:DG:H2''	114:K1:32:DA:O5'	2.21	0.41
122:KA:33:DG:H2''	122:KA:34:DA:O5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
122:KA:44:DG:H2''	122:KA:45:DA:OP2	2.21	0.41
123:KC:14:DT:H2'	123:KC:15:DT:H72	2.02	0.41
125:L1:27:DA:H1'	125:L1:28:DC:H5'	2.03	0.41
126:L2:21:DT:H2'	126:L2:22:DT:H72	2.02	0.41
126:L2:25:DA:H1'	126:L2:26:DC:H5'	2.03	0.41
129:L6:7:DT:H2'	129:L6:8:DT:H72	2.02	0.41
133:LA:16:DA:H1'	133:LA:17:DC:H5'	2.03	0.41
141:M8:8:DA:H1'	141:M8:9:DC:H5'	2.03	0.41
145:MD:31:DA:H1'	145:MD:32:DC:H5'	2.03	0.41
149:N6:6:DT:H1'	149:N6:7:DC:H5'	2.02	0.41
152:N9:18:DG:H2''	152:N9:19:DC:OP2	2.19	0.41
156:O2:19:DG:H2''	156:O2:20:DA:OP2	2.21	0.41
159:O6:20:DG:H2''	159:O6:21:DA:O5'	2.21	0.41
161:O8:47:DT:H2'	161:O8:48:DT:H72	2.02	0.41
163:OA:17:DT:H1'	163:OA:18:DC:H5'	2.02	0.41
164:OC:22:DA:H1'	164:OC:23:DC:H5'	2.03	0.41
165:OD:19:DA:H1'	165:OD:20:DC:H5'	2.03	0.41
165:OD:51:DG:H2''	165:OD:52:DA:OP2	2.21	0.41
166:P2:14:DT:H2'	166:P2:15:DT:H72	2.02	0.41
166:P2:17:DT:H2'	166:P2:18:DT:H72	2.02	0.41
167:P3:7:DT:H1'	167:P3:8:DC:H5'	2.02	0.41
172:P9:12:DT:H2'	172:P9:13:DT:H72	2.02	0.41
172:P9:13:DT:H2'	172:P9:14:DT:H72	2.02	0.41
173:PA:27:DA:H1'	173:PA:28:DC:H5'	2.03	0.41
179:Q7:10:DT:H2'	179:Q7:11:DT:H72	2.02	0.41
181:Q9:33:DT:H2'	181:Q9:34:DT:H72	2.02	0.41
183:QC:6:DT:H1'	183:QC:7:DC:H5'	2.02	0.41
187:R5:4:DG:H2''	187:R5:5:DC:OP2	2.19	0.41
187:R5:18:DG:H2''	187:R5:19:DC:OP2	2.19	0.41
192:RC:19:DA:H1'	192:RC:20:DC:H5'	2.03	0.41
196:S5:6:DA:H1'	196:S5:7:DC:H5'	2.03	0.41
206:T7:5:DG:H2''	206:T7:6:DA:OP2	2.21	0.41
207:T8:14:DG:H2''	207:T8:15:DA:OP2	2.21	0.41
214:U5:2:DT:H1'	214:U5:3:DC:H5'	2.02	0.41
214:U5:23:DT:H2'	214:U5:24:DT:H72	2.01	0.41
214:U5:25:DT:H1'	214:U5:26:DC:H5'	2.02	0.41
227:VA:9:DT:H2'	227:VA:10:DT:H72	2.02	0.41
229:VD:8:DG:H2''	229:VD:9:DA:O5'	2.21	0.41
237:X7:6:DA:H1'	237:X7:7:DC:H5'	2.03	0.41
3:A3:14:DG:H2''	3:A3:15:DA:O5'	2.21	0.40
4:A4:8:DG:H2''	4:A4:9:DA:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:11:DG:H2''	7:A7:12:DA:O5'	2.21	0.40
7:A7:36:DT:H1'	7:A7:37:DC:H5'	2.02	0.40
11:AB:26:DG:C8	11:AB:27:DT:H72	2.55	0.40
11:AB:39:DT:H1'	11:AB:40:DC:H5'	2.02	0.40
11:AB:66:DT:H2'	11:AB:67:DT:H72	2.02	0.40
11:AB:140:DG:H2''	11:AB:141:DA:OP2	2.21	0.40
11:AB:148:DA:H1'	11:AB:149:DC:H5'	2.03	0.40
11:AB:173:DT:H1'	11:AB:174:DC:H5'	2.02	0.40
11:AB:189:DT:H2'	11:AB:190:DT:H72	2.02	0.40
11:AB:243:DG:H2''	11:AB:244:DA:OP2	2.22	0.40
11:AB:328:DG:H2''	11:AB:329:DC:OP2	2.20	0.40
11:AB:351:DG:H2''	11:AB:352:DA:O5'	2.21	0.40
11:AB:462:DA:H1'	11:AB:463:DC:H5'	2.03	0.40
11:AB:481:DG:C8	11:AB:482:DT:H72	2.55	0.40
11:AB:602:DT:H2'	11:AB:603:DT:H72	2.02	0.40
11:AB:700:DA:H1'	11:AB:701:DC:H5'	2.03	0.40
11:AB:708:DA:H1'	11:AB:709:DC:H5'	2.03	0.40
11:AB:760:DG:H2''	11:AB:761:DA:OP2	2.21	0.40
11:AB:921:DG:H2''	11:AB:922:DA:O5'	2.21	0.40
11:AB:1235:DT:H2'	11:AB:1236:DT:H72	2.02	0.40
11:AB:1383:DT:H2'	11:AB:1384:DT:H72	2.01	0.40
11:AB:1403:DA:H1'	11:AB:1404:DC:H5'	2.03	0.40
11:AB:1421:DT:H2'	11:AB:1422:DT:H72	2.02	0.40
11:AB:1463:DT:H2'	11:AB:1464:DT:H72	2.02	0.40
11:AB:1498:DT:H1'	11:AB:1499:DC:H5'	2.02	0.40
11:AB:1503:DT:H2'	11:AB:1504:DT:H72	2.02	0.40
11:AB:1509:DT:H2'	11:AB:1510:DT:H72	2.02	0.40
11:AB:1566:DT:H2'	11:AB:1567:DT:H72	2.02	0.40
11:AB:1635:DT:H2'	11:AB:1636:DT:H72	2.02	0.40
11:AB:1649:DT:H2'	11:AB:1650:DT:H72	2.02	0.40
11:AB:1712:DT:H2'	11:AB:1713:DT:H72	2.02	0.40
11:AB:1809:DA:H1'	11:AB:1810:DC:H5'	2.03	0.40
11:AB:1878:DT:H2'	11:AB:1879:DT:H72	2.02	0.40
11:AB:1998:DG:H2''	11:AB:1999:DA:O5'	2.21	0.40
11:AB:2098:DT:H2'	11:AB:2099:DT:H72	2.02	0.40
11:AB:2449:DA:H1'	11:AB:2450:DC:H5'	2.03	0.40
11:AB:2721:DT:H2'	11:AB:2722:DT:H72	2.02	0.40
11:AB:2904:DT:H2'	11:AB:2905:DT:H72	2.02	0.40
11:AB:3031:DT:H2'	11:AB:3032:DT:H72	2.02	0.40
11:AB:3045:DT:H2'	11:AB:3046:DT:H72	2.02	0.40
11:AB:3430:DG:H2''	11:AB:3431:DA:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3646:DT:H1'	11:AB:3647:DC:H5'	2.02	0.40
11:AB:3917:DG:H2''	11:AB:3918:DC:OP2	2.19	0.40
11:AB:3962:DT:H1'	11:AB:3963:DC:H5'	2.01	0.40
11:AB:3989:DT:H1'	11:AB:3990:DC:H5'	2.02	0.40
11:AB:4051:DA:H1'	11:AB:4052:DC:H5'	2.03	0.40
11:AB:4457:DT:H2'	11:AB:4458:DT:H72	2.02	0.40
11:AB:4493:DG:H2''	11:AB:4494:DC:OP2	2.19	0.40
11:AB:4654:DG:H2''	11:AB:4655:DC:OP2	2.19	0.40
11:AB:4686:DT:H2'	11:AB:4687:DT:H72	2.02	0.40
11:AB:4721:DT:H2'	11:AB:4722:DT:H72	2.02	0.40
11:AB:4959:DG:H2''	11:AB:4960:DC:OP2	2.19	0.40
11:AB:4961:DG:H2''	11:AB:4962:DA:O5'	2.21	0.40
11:AB:5072:DG:H2''	11:AB:5073:DA:O5'	2.21	0.40
11:AB:5219:DA:H1'	11:AB:5220:DC:H5'	2.03	0.40
11:AB:5348:DT:H2'	11:AB:5349:DT:H72	2.02	0.40
11:AB:5528:DT:H1'	11:AB:5529:DC:H5'	2.02	0.40
11:AB:5752:DT:H2'	11:AB:5753:DT:H72	2.02	0.40
11:AB:5787:DT:H2'	11:AB:5788:DT:H72	2.02	0.40
11:AB:5790:DT:H2'	11:AB:5791:DT:H72	2.02	0.40
11:AB:5909:DG:H2''	11:AB:5910:DA:OP2	2.21	0.40
11:AB:5929:DA:H1'	11:AB:5930:DC:H5'	2.03	0.40
11:AB:5940:DT:H1'	11:AB:5941:DC:H5'	2.02	0.40
11:AB:5977:DG:H2''	11:AB:5978:DA:O5'	2.21	0.40
11:AB:6010:DT:H2'	11:AB:6011:DT:H72	2.02	0.40
11:AB:6116:DA:H1'	11:AB:6117:DC:H5'	2.03	0.40
11:AB:6128:DT:H2'	11:AB:6129:DT:H72	2.02	0.40
11:AB:6204:DT:H2'	11:AB:6205:DT:H72	2.02	0.40
11:AB:6274:DT:H2'	11:AB:6275:DT:H72	2.02	0.40
11:AB:6411:DT:H1'	11:AB:6412:DC:H5'	2.02	0.40
11:AB:6418:DT:H2'	11:AB:6419:DT:H72	2.01	0.40
11:AB:6432:DT:H1'	11:AB:6433:DC:H5'	2.02	0.40
11:AB:6525:DT:H1'	11:AB:6526:DC:H5'	2.02	0.40
11:AB:6566:DT:H2'	11:AB:6567:DT:H72	2.02	0.40
11:AB:6579:DT:H1'	11:AB:6580:DC:H5'	2.02	0.40
11:AB:6587:DT:H2'	11:AB:6588:DT:H72	2.02	0.40
11:AB:6617:DA:H1'	11:AB:6618:DC:H5'	2.03	0.40
11:AB:6720:DT:H1'	11:AB:6721:DC:H5'	2.02	0.40
11:AB:6741:DT:H1'	11:AB:6742:DC:H5'	2.02	0.40
11:AB:6750:DG:H2''	11:AB:6751:DA:O5'	2.21	0.40
11:AB:6938:DT:H1'	11:AB:6939:DC:H5'	2.02	0.40
11:AB:7098:DA:H1'	11:AB:7099:DC:H5'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:7103:DT:H2'	11:AB:7104:DT:H72	2.02	0.40
11:AB:7132:DT:H2'	11:AB:7133:DT:H72	2.02	0.40
11:AB:7177:DG:H2''	11:AB:7178:DC:OP2	2.19	0.40
13:AD:17:DA:H1'	13:AD:18:DC:H5'	2.03	0.40
24:BC:32:DT:H2'	24:BC:33:DT:H72	2.02	0.40
26:C1:10:DA:H1'	26:C1:11:DC:H5'	2.03	0.40
26:C1:13:DT:H1'	26:C1:14:DC:H5'	2.02	0.40
30:C6:22:DA:H1'	30:C6:23:DC:H5'	2.03	0.40
34:CA:1:DT:H72	228:VC:21:DT:H2'	2.02	0.40
39:D3:7:DT:H1'	39:D3:8:DC:H5'	2.02	0.40
50:E3:7:DT:H2'	50:E3:8:DT:H72	2.02	0.40
53:E7:9:DT:H2'	53:E7:10:DT:H72	2.02	0.40
54:E8:32:DT:H2'	54:E8:33:DT:H72	2.01	0.40
55:E9:27:DA:H1'	80:GD:14:DC:H5'	2.03	0.40
55:E9:39:DA:H1'	55:E9:40:DC:H5'	2.03	0.40
60:F2:25:DG:H2''	130:L7:15:DA:OP1	2.21	0.40
61:F3:3:DT:H1'	61:F3:4:DC:H5'	2.02	0.40
65:F8:9:DC:H5'	87:H8:17:DA:H1'	2.03	0.40
67:FA:3:DG:H2''	67:FA:4:DA:O5'	2.21	0.40
67:FA:28:DA:H1'	67:FA:29:DC:H5'	2.03	0.40
69:FD:42:DA:H1'	69:FD:43:DC:H5'	2.03	0.40
74:G6:7:DG:H2''	74:G6:8:DA:OP2	2.21	0.40
74:G6:33:DG:C8	74:G6:34:DT:H72	2.55	0.40
75:G7:14:DT:H1'	75:G7:15:DC:H5'	2.02	0.40
78:GA:15:DA:H1'	78:GA:16:DC:H5'	2.03	0.40
82:H2:21:DG:H2''	82:H2:22:DC:OP2	2.20	0.40
83:H3:36:DC:H5'	165:OD:14:DA:H1'	2.03	0.40
85:H6:8:DA:H1'	85:H6:9:DC:H5'	2.03	0.40
94:I3:18:DA:H1'	94:I3:19:DC:H5'	2.03	0.40
98:I8:5:DT:H2'	98:I8:6:DT:H72	2.02	0.40
99:I9:2:DA:H1'	99:I9:3:DC:H5'	2.03	0.40
101:IC:19:DG:H2''	101:IC:20:DC:OP2	2.20	0.40
105:J3:14:DA:H1'	105:J3:15:DC:H5'	2.03	0.40
108:J7:43:DT:H2'	108:J7:44:DT:H72	2.02	0.40
109:J8:22:DT:H2'	109:J8:23:DT:H72	2.02	0.40
111:JA:1:DT:H2'	111:JA:2:DT:H72	2.02	0.40
119:K7:19:DT:H2'	119:K7:20:DT:H72	2.02	0.40
122:KA:13:DG:H2''	122:KA:14:DC:OP2	2.19	0.40
122:KA:36:DT:H2'	122:KA:37:DT:H72	2.02	0.40
122:KA:49:DT:H2'	122:KA:50:DT:H72	2.02	0.40
123:KC:23:DG:H2''	123:KC:24:DA:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
124:KD:21:DT:H2'	124:KD:22:DT:H72	2.02	0.40
125:L1:10:DG:H2''	125:L1:11:DA:O5'	2.21	0.40
125:L1:22:DT:H2'	125:L1:23:DT:H72	2.02	0.40
125:L1:33:DG:H2''	125:L1:34:DA:O5'	2.21	0.40
134:LC:6:DA:H1'	134:LC:7:DC:H5'	2.03	0.40
138:M5:32:DG:H2''	138:M5:33:DA:OP2	2.21	0.40
143:MA:25:DA:H1'	143:MA:26:DC:H5'	2.03	0.40
144:MC:6:DG:H2''	144:MC:7:DC:OP2	2.19	0.40
144:MC:22:DT:H2'	144:MC:23:DT:H72	2.02	0.40
145:MD:10:DT:H2'	145:MD:11:DT:H72	2.02	0.40
148:N5:15:DA:H1'	148:N5:16:DC:H5'	2.03	0.40
148:N5:23:DA:H1'	148:N5:24:DC:H5'	2.03	0.40
151:N8:2:DG:H2''	151:N8:3:DA:O5'	2.21	0.40
152:N9:43:DG:H2''	152:N9:44:DA:O5'	2.21	0.40
152:N9:47:DG:H2''	152:N9:48:DA:O5'	2.21	0.40
153:NA:15:DG:H2''	153:NA:16:DC:OP2	2.19	0.40
159:O6:2:DT:H2'	159:O6:3:DT:H72	2.02	0.40
161:O8:9:DG:H2''	161:O8:10:DA:OP2	2.21	0.40
165:OD:6:DG:H2''	165:OD:7:DA:O5'	2.21	0.40
167:P3:34:DT:H1'	167:P3:35:DC:H5'	2.02	0.40
169:P6:16:DG:H2''	169:P6:17:DA:O5'	2.21	0.40
171:P8:18:DT:H2'	171:P8:19:DT:H72	2.02	0.40
172:P9:10:DT:H2'	172:P9:11:DT:H72	2.02	0.40
173:PA:4:DG:H2''	173:PA:5:DA:O5'	2.21	0.40
173:PA:22:DT:H2'	173:PA:23:DT:H72	2.02	0.40
176:Q2:16:DT:H2'	176:Q2:17:DT:H72	2.02	0.40
183:QC:19:DG:H2''	183:QC:20:DA:O5'	2.21	0.40
187:R5:36:DA:OP1	223:V5:13:DG:H2''	2.21	0.40
190:R9:6:DT:H2'	190:R9:7:DT:H72	2.01	0.40
197:S7:14:DT:H1'	197:S7:15:DC:H5'	2.02	0.40
198:S8:34:DG:H2''	198:S8:35:DA:O5'	2.21	0.40
198:S8:36:DA:H1'	198:S8:37:DC:H5'	2.03	0.40
207:T8:20:DT:H1'	207:T8:21:DC:H5'	2.02	0.40
209:TA:33:DG:H2''	209:TA:34:DC:OP2	2.19	0.40
214:U5:40:DT:H2'	214:U5:41:DT:H72	2.02	0.40
216:U8:22:DT:H2'	216:U8:23:DT:H72	2.02	0.40
220:UD:21:DA:H1'	220:UD:22:DC:H5'	2.03	0.40
222:V3:19:DT:H2'	222:V3:20:DT:H72	2.02	0.40
223:V5:24:DT:H1'	223:V5:25:DC:H5'	2.02	0.40
223:V5:32:DG:C8	223:V5:33:DT:H72	2.55	0.40
224:V7:21:DG:H2''	224:V7:22:DA:OP2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
228:VC:33:DG:H2''	228:VC:34:DA:O5'	2.21	0.40
231:W5:15:DT:H1'	231:W5:16:DC:H5'	2.02	0.40
237:X7:11:DT:H1'	237:X7:12:DC:H5'	2.02	0.40
238:X9:46:DT:H2'	238:X9:47:DT:H72	2.02	0.40
1:A1:25:DA:H1'	1:A1:26:DC:H5'	2.03	0.40
1:A1:29:DG:C8	1:A1:30:DT:H72	2.55	0.40
2:A2:31:DA:H1'	130:L7:29:DC:H5'	2.03	0.40
10:AA:23:DG:H2''	161:O8:33:DA:O5'	2.21	0.40
11:AB:90:DG:H2''	11:AB:91:DC:OP2	2.20	0.40
11:AB:93:DG:H2''	11:AB:94:DA:O5'	2.21	0.40
11:AB:93:DG:H2''	11:AB:94:DA:OP2	2.21	0.40
11:AB:104:DA:H1'	11:AB:105:DC:H5'	2.03	0.40
11:AB:108:DT:H2'	11:AB:109:DT:H72	2.02	0.40
11:AB:162:DT:H2'	11:AB:163:DT:H72	2.02	0.40
11:AB:190:DT:H1'	11:AB:191:DC:H5'	2.02	0.40
11:AB:207:DG:H2''	11:AB:208:DA:O5'	2.21	0.40
11:AB:252:DT:H2'	11:AB:253:DT:H72	2.02	0.40
11:AB:279:DA:H1'	11:AB:280:DC:H5'	2.03	0.40
11:AB:285:DG:H2''	11:AB:286:DA:O5'	2.21	0.40
11:AB:460:DG:C8	11:AB:461:DT:H72	2.55	0.40
11:AB:476:DG:C8	11:AB:477:DT:H72	2.55	0.40
11:AB:736:DA:H1'	11:AB:737:DC:H5'	2.03	0.40
11:AB:751:DG:C8	11:AB:752:DT:H72	2.55	0.40
11:AB:871:DG:C8	11:AB:872:DT:H72	2.55	0.40
11:AB:1036:DA:H1'	11:AB:1037:DC:H5'	2.03	0.40
11:AB:1047:DT:H1'	11:AB:1048:DC:H5'	2.02	0.40
11:AB:1050:DG:H2''	11:AB:1051:DA:OP2	2.22	0.40
11:AB:1080:DA:H1'	11:AB:1081:DC:H5'	2.03	0.40
11:AB:1272:DT:H2'	11:AB:1273:DT:H72	2.02	0.40
11:AB:1363:DT:H2'	11:AB:1364:DT:H72	2.02	0.40
11:AB:1418:DG:C8	11:AB:1419:DT:H72	2.55	0.40
11:AB:1446:DT:H2'	11:AB:1447:DT:H72	2.02	0.40
11:AB:1464:DT:H1'	11:AB:1465:DC:H5'	2.02	0.40
11:AB:1481:DG:C8	11:AB:1482:DT:H72	2.55	0.40
11:AB:1484:DA:H1'	11:AB:1485:DC:H5'	2.03	0.40
11:AB:1694:DT:H1'	11:AB:1695:DC:H5'	2.02	0.40
11:AB:1744:DT:H2'	11:AB:1745:DT:H72	2.02	0.40
11:AB:1911:DT:H2'	11:AB:1912:DT:H72	2.02	0.40
11:AB:1936:DG:H2''	11:AB:1937:DA:O5'	2.21	0.40
11:AB:2014:DG:H2''	11:AB:2015:DC:OP2	2.19	0.40
11:AB:2073:DG:H2''	11:AB:2074:DA:OP2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:2128:DT:H2'	11:AB:2129:DT:H72	2.02	0.40
11:AB:2226:DT:H2'	11:AB:2227:DT:H72	2.02	0.40
11:AB:2272:DT:H2'	11:AB:5577:DT:H72	2.02	0.40
11:AB:2287:DT:H72	11:AB:5506:DG:C8	2.55	0.40
11:AB:2302:DT:H2'	11:AB:2303:DT:H72	2.02	0.40
11:AB:2364:DT:H2'	11:AB:5437:DT:H72	2.02	0.40
11:AB:2371:DA:H1'	11:AB:2372:DC:H5'	2.03	0.40
11:AB:2442:DT:H2'	11:AB:5367:DT:H72	2.02	0.40
11:AB:2447:DA:H1'	11:AB:2448:DC:H5'	2.03	0.40
11:AB:2863:DG:H2''	11:AB:2864:DA:O5'	2.21	0.40
11:AB:2883:DG:H2''	11:AB:2884:DC:OP2	2.20	0.40
11:AB:2901:DG:C8	11:AB:2902:DT:H72	2.55	0.40
11:AB:3241:DT:H2'	11:AB:3242:DT:H72	2.02	0.40
11:AB:3331:DT:H2'	11:AB:3332:DT:H72	2.02	0.40
11:AB:3430:DG:H2''	11:AB:3431:DA:OP2	2.21	0.40
11:AB:3536:DT:H2'	11:AB:3537:DT:H72	2.02	0.40
11:AB:3549:DT:H2'	11:AB:3550:DT:H72	2.02	0.40
11:AB:3588:DT:H2'	11:AB:3589:DT:H72	2.02	0.40
11:AB:3629:DG:C8	11:AB:3630:DT:H72	2.55	0.40
11:AB:3791:DT:H72	11:AB:4462:DG:C8	2.55	0.40
11:AB:3900:DG:H2''	11:AB:3901:DA:OP2	2.22	0.40
11:AB:3914:DG:C8	11:AB:3915:DT:H72	2.55	0.40
11:AB:3948:DT:H2'	11:AB:3949:DT:H72	2.02	0.40
11:AB:4042:DG:C8	11:AB:4043:DT:H72	2.55	0.40
11:AB:4068:DG:C8	11:AB:4069:DT:H72	2.55	0.40
11:AB:4079:DT:H2'	11:AB:4080:DT:H72	2.02	0.40
11:AB:4103:DA:H1'	11:AB:4104:DC:H5'	2.03	0.40
11:AB:4156:DT:H2'	11:AB:4157:DT:H72	2.02	0.40
11:AB:4188:DG:H2''	11:AB:4189:DC:OP2	2.19	0.40
11:AB:4330:DA:H1'	11:AB:4331:DC:H5'	2.03	0.40
11:AB:4400:DG:H2''	11:AB:4401:DC:OP2	2.20	0.40
11:AB:4431:DG:H2''	11:AB:4432:DA:O5'	2.21	0.40
11:AB:4434:DT:H2'	11:AB:4435:DT:H72	2.02	0.40
11:AB:4646:DA:H1'	11:AB:4647:DC:H5'	2.03	0.40
11:AB:4774:DA:H1'	11:AB:4775:DC:H5'	2.03	0.40
11:AB:4781:DA:H1'	11:AB:4782:DC:H5'	2.03	0.40
11:AB:4834:DG:C8	11:AB:4835:DT:H72	2.55	0.40
11:AB:4838:DA:H1'	11:AB:4839:DC:H5'	2.03	0.40
11:AB:4912:DA:H1'	11:AB:4913:DC:H5'	2.03	0.40
11:AB:4914:DT:H2'	11:AB:4915:DT:H72	2.02	0.40
11:AB:5144:DA:H1'	11:AB:5145:DC:H5'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5165:DA:H1'	11:AB:5166:DC:H5'	2.03	0.40
11:AB:5257:DG:H2''	11:AB:5258:DA:OP2	2.21	0.40
11:AB:5396:DT:H1'	11:AB:5397:DC:H5'	2.02	0.40
11:AB:5558:DT:H2'	11:AB:5559:DT:H72	2.02	0.40
11:AB:5597:DT:H2'	11:AB:5598:DT:H72	2.02	0.40
11:AB:5737:DA:H1'	11:AB:5738:DC:H5'	2.03	0.40
11:AB:5824:DG:H2''	11:AB:5825:DC:OP2	2.19	0.40
11:AB:6088:DG:H2''	11:AB:6089:DA:OP2	2.22	0.40
11:AB:6148:DT:H2'	11:AB:6149:DT:H72	2.02	0.40
11:AB:6170:DG:H2''	11:AB:6171:DA:O5'	2.21	0.40
11:AB:6279:DG:C8	11:AB:6280:DT:H72	2.55	0.40
11:AB:6394:DT:H1'	11:AB:6395:DC:H5'	2.02	0.40
11:AB:6584:DT:H2'	11:AB:6585:DT:H72	2.02	0.40
11:AB:6831:DG:H2''	11:AB:6832:DC:OP2	2.20	0.40
11:AB:6849:DG:C8	11:AB:6850:DT:H72	2.55	0.40
11:AB:7129:DG:C8	11:AB:7130:DT:H72	2.55	0.40
13:AD:31:DA:O5'	225:V8:24:DG:H2''	2.21	0.40
13:AD:31:DA:OP1	225:V8:24:DG:H2''	2.21	0.40
13:AD:37:DT:H2'	47:DD:28:DT:H72	2.02	0.40
14:B1:37:DT:H1'	14:B1:38:DC:H5'	2.02	0.40
15:B2:16:DG:H2''	15:B2:17:DA:O5'	2.21	0.40
21:B8:22:DT:H2'	139:M6:15:DT:H72	2.02	0.40
21:B8:26:DG:OP1	31:C7:30:DG:OP1	2.40	0.40
22:B9:2:DT:H2'	22:B9:3:DT:H72	2.02	0.40
22:B9:15:DC:H5'	67:FA:14:DA:H1'	2.03	0.40
28:C3:24:DG:H2''	28:C3:25:DA:O5'	2.21	0.40
29:C5:1:DT:H2'	29:C5:2:DT:H72	2.02	0.40
31:C7:3:DG:C8	31:C7:4:DT:H72	2.55	0.40
31:C7:7:DT:H2'	31:C7:8:DT:H72	2.02	0.40
36:CD:15:DA:OP1	156:O2:42:DG:H2''	2.22	0.40
39:D3:12:DT:H72	202:SD:13:DT:H2'	2.02	0.40
41:D6:35:DG:H2''	181:Q9:26:DA:OP1	2.22	0.40
47:DD:38:DG:H2''	47:DD:39:DC:OP2	2.19	0.40
48:E1:8:DC:H5'	231:W5:20:DA:H1'	2.03	0.40
49:E2:18:DT:H1'	49:E2:19:DC:H5'	2.02	0.40
49:E2:28:DG:H2''	49:E2:29:DA:O5'	2.21	0.40
55:E9:13:DG:H2''	55:E9:14:DA:OP2	2.22	0.40
56:EA:12:DG:C8	56:EA:13:DT:H72	2.55	0.40
60:F2:22:DG:H2''	60:F2:23:DC:OP2	2.20	0.40
60:F2:33:DA:H1'	60:F2:34:DC:H5'	2.03	0.40
63:F6:6:DG:H2''	63:F6:7:DA:OP2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:F7:6:DT:H1'	64:F7:7:DC:H5'	2.02	0.40
70:G1:9:DA:H1'	70:G1:10:DC:H5'	2.03	0.40
72:G3:18:DT:H1'	72:G3:19:DC:H5'	2.02	0.40
73:G5:15:DA:OP1	117:K5:32:DG:H2''	2.21	0.40
77:G9:14:DT:H2'	77:G9:15:DT:H72	2.02	0.40
82:H2:38:DG:H2''	82:H2:39:DC:OP2	2.19	0.40
86:H7:11:DG:H2''	86:H7:12:DA:O5'	2.21	0.40
86:H7:14:DG:H2''	86:H7:15:DA:O5'	2.21	0.40
89:HA:13:DG:H2''	89:HA:14:DA:OP2	2.22	0.40
89:HA:21:DA:H1'	89:HA:22:DC:H5'	2.03	0.40
91:HD:23:DA:H1'	91:HD:24:DC:H5'	2.03	0.40
94:I3:53:DT:H72	115:K2:23:DT:H2'	2.02	0.40
95:I5:15:DC:H5'	138:M5:35:DA:H1'	2.03	0.40
96:I6:7:DT:H2'	96:I6:8:DT:H72	2.02	0.40
97:I7:9:DA:H1'	97:I7:10:DC:H5'	2.03	0.40
100:IA:14:DT:H2'	100:IA:15:DT:H72	2.02	0.40
104:J2:13:DG:H2''	104:J2:14:DA:O5'	2.22	0.40
106:J5:1:DA:H1'	106:J5:2:DC:H5'	2.03	0.40
107:J6:12:DG:H2''	107:J6:13:DA:OP2	2.21	0.40
108:J7:50:DC:H5'	211:TD:35:DA:H1'	2.03	0.40
109:J8:8:DA:H1'	109:J8:9:DC:H5'	2.03	0.40
111:JA:14:DA:H1'	111:JA:15:DC:H5'	2.03	0.40
122:KA:24:DA:H1'	122:KA:25:DC:H5'	2.03	0.40
122:KA:28:DG:H2''	124:KD:17:DA:O5'	2.21	0.40
123:KC:23:DG:H2''	123:KC:24:DA:OP2	2.21	0.40
124:KD:3:DA:H1'	124:KD:4:DC:H5'	2.03	0.40
125:L1:35:DA:H1'	125:L1:36:DC:H5'	2.03	0.40
128:L5:19:DA:H1'	128:L5:20:DC:H5'	2.03	0.40
141:M8:16:DA:H1'	141:M8:17:DC:H5'	2.03	0.40
141:M8:21:DG:C8	141:M8:22:DT:H72	2.55	0.40
142:M9:1:DG:H2''	142:M9:2:DA:O5'	2.21	0.40
144:MC:16:DT:H2'	144:MC:17:DT:H72	2.02	0.40
152:N9:29:DG:H2''	152:N9:30:DA:O5'	2.21	0.40
153:NA:7:DG:C8	153:NA:8:DT:H72	2.55	0.40
154:NC:11:DA:O5'	174:PC:20:DG:H2''	2.21	0.40
157:O3:1:DG:H2''	157:O3:2:DA:O5'	2.21	0.40
165:OD:15:DA:H1'	165:OD:16:DC:H5'	2.03	0.40
165:OD:35:DG:H2''	165:OD:36:DA:OP2	2.21	0.40
180:Q8:20:DT:H1'	180:Q8:21:DC:H5'	2.02	0.40
182:QA:15:DG:H2''	182:QA:16:DA:O5'	2.21	0.40
187:R5:21:DG:H2''	187:R5:22:DA:OP2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
190:R9:37:DT:H2'	190:R9:38:DT:H72	2.02	0.40
195:S3:22:DG:H2''	195:S3:23:DA:O5'	2.21	0.40
198:S8:16:DA:H1'	198:S8:17:DC:H5'	2.03	0.40
206:T7:36:DG:H2''	206:T7:37:DA:OP2	2.21	0.40
210:TC:21:DA:H1'	210:TC:22:DC:H5'	2.03	0.40
211:TD:17:DG:C8	211:TD:18:DT:H72	2.55	0.40
217:U9:14:DT:H2'	217:U9:15:DT:H72	2.02	0.40
221:V2:7:DG:C8	221:V2:8:DT:H72	2.55	0.40
226:V9:16:DG:C8	226:V9:17:DT:H72	2.55	0.40
227:VA:15:DA:H1'	227:VA:16:DC:H5'	2.03	0.40
231:W5:24:DG:H2''	231:W5:25:DA:OP2	2.21	0.40
234:W9:9:DT:H1'	234:W9:10:DC:H5'	2.02	0.40
1:A1:27:DA:H1'	1:A1:28:DC:H5'	2.03	0.40
1:A1:56:DT:H2'	1:A1:57:DT:H72	2.02	0.40
2:A2:23:DG:H2''	2:A2:24:DA:O5'	2.21	0.40
6:A6:13:DA:H1'	6:A6:14:DC:H5'	2.03	0.40
10:AA:23:DG:H2''	161:O8:33:DA:OP1	2.21	0.40
11:AB:338:DT:H2'	11:AB:339:DT:H72	2.02	0.40
11:AB:348:DG:H2''	11:AB:349:DA:O5'	2.21	0.40
11:AB:760:DG:H2''	11:AB:761:DA:O5'	2.21	0.40
11:AB:1208:DA:H1'	11:AB:1209:DC:H5'	2.03	0.40
11:AB:1313:DT:H2'	11:AB:1314:DT:H72	2.02	0.40
11:AB:1386:DT:H1'	11:AB:1387:DC:H5'	2.02	0.40
11:AB:1434:DT:H2'	11:AB:1435:DT:H72	2.02	0.40
11:AB:1476:DT:H2'	11:AB:1477:DT:H72	2.02	0.40
11:AB:1545:DT:H2'	11:AB:1546:DT:H72	2.02	0.40
11:AB:1597:DT:H1'	11:AB:1598:DC:H5'	2.02	0.40
11:AB:1778:DT:H2'	11:AB:1779:DT:H72	2.02	0.40
11:AB:1804:DG:H2''	11:AB:1805:DA:O5'	2.21	0.40
11:AB:1920:DA:H1'	11:AB:1921:DC:H5'	2.03	0.40
11:AB:2001:DG:H2''	11:AB:2002:DA:O5'	2.21	0.40
11:AB:2073:DG:H2''	11:AB:2074:DA:O5'	2.21	0.40
11:AB:2091:DG:H2''	11:AB:2092:DA:O5'	2.21	0.40
11:AB:2140:DT:H2'	11:AB:2141:DT:H72	2.02	0.40
11:AB:2391:DG:H2''	11:AB:2392:DC:OP2	2.19	0.40
11:AB:2496:DA:H1'	11:AB:2497:DC:H5'	2.03	0.40
11:AB:2522:DT:H1'	11:AB:2523:DC:H5'	2.03	0.40
11:AB:2615:DG:H2''	11:AB:2616:DA:OP2	2.22	0.40
11:AB:2763:DA:H1'	11:AB:2764:DC:H5'	2.03	0.40
11:AB:2824:DT:H2'	11:AB:2825:DT:H72	2.02	0.40
11:AB:3010:DT:H1'	11:AB:3011:DC:H5'	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3124:DG:H2''	11:AB:3125:DA:O5'	2.21	0.40
11:AB:3228:DA:H1'	11:AB:3229:DC:H5'	2.03	0.40
11:AB:3289:DG:H2''	11:AB:3290:DA:O5'	2.21	0.40
11:AB:3358:DA:H1'	11:AB:3359:DC:H5'	2.03	0.40
11:AB:3364:DG:H2''	11:AB:3365:DA:OP2	2.21	0.40
11:AB:3406:DG:H2''	11:AB:3407:DA:OP2	2.21	0.40
11:AB:3494:DT:H1'	11:AB:3495:DC:H5'	2.02	0.40
11:AB:3617:DT:H2'	11:AB:3618:DT:H72	2.02	0.40
11:AB:3623:DT:H2'	11:AB:3624:DT:H72	2.02	0.40
11:AB:3995:DT:H2'	11:AB:3996:DT:H72	2.01	0.40
11:AB:4114:DG:H2''	11:AB:4115:DA:OP2	2.22	0.40
11:AB:4218:DT:H2''	11:AB:4219:DC:OP2	2.22	0.40
11:AB:4256:DG:H2''	11:AB:4257:DA:O5'	2.21	0.40
11:AB:4257:DA:H1'	11:AB:4258:DC:H5'	2.03	0.40
11:AB:4280:DG:H2''	11:AB:4281:DA:O5'	2.21	0.40
11:AB:4329:DG:H2''	11:AB:4330:DA:O5'	2.21	0.40
11:AB:4408:DT:H2'	11:AB:4409:DT:H72	2.02	0.40
11:AB:4496:DG:H2''	11:AB:4497:DC:OP2	2.19	0.40
11:AB:4499:DA:H1'	11:AB:4500:DC:H5'	2.03	0.40
11:AB:4683:DG:H2''	11:AB:4684:DA:O5'	2.21	0.40
11:AB:4807:DG:H2''	11:AB:4808:DA:O5'	2.21	0.40
11:AB:4907:DA:H1'	11:AB:4908:DC:H5'	2.03	0.40
11:AB:4984:DT:H2'	11:AB:4985:DT:H72	2.02	0.40
11:AB:5087:DG:H2''	11:AB:5088:DA:OP2	2.22	0.40
11:AB:5134:DG:H2''	11:AB:5135:DC:OP2	2.20	0.40
11:AB:5318:DT:H2'	11:AB:5319:DT:H72	2.02	0.40
11:AB:5333:DA:H1'	11:AB:5334:DC:H5'	2.03	0.40
11:AB:5350:DA:H1'	11:AB:5351:DC:H5'	2.03	0.40
11:AB:5399:DG:H2''	11:AB:5400:DA:OP2	2.22	0.40
11:AB:5479:DT:H2''	11:AB:5480:DC:OP2	2.22	0.40
11:AB:5501:DT:H2'	11:AB:5502:DT:H72	2.02	0.40
11:AB:5554:DA:H1'	11:AB:5555:DC:H5'	2.03	0.40
11:AB:5560:DG:H2''	11:AB:5561:DA:O5'	2.21	0.40
11:AB:5617:DT:H2'	11:AB:5618:DT:H72	2.02	0.40
11:AB:5645:DT:H2'	11:AB:5646:DT:H72	2.02	0.40
11:AB:5834:DT:H2'	11:AB:5835:DT:H72	2.02	0.40
11:AB:5900:DA:H1'	11:AB:5901:DC:H5'	2.03	0.40
11:AB:6072:DG:H2''	11:AB:6073:DA:O5'	2.21	0.40
11:AB:6111:DT:H2''	11:AB:6112:DC:OP2	2.22	0.40
11:AB:6229:DG:H2''	11:AB:6230:DA:O5'	2.21	0.40
11:AB:6288:DA:H1'	11:AB:6289:DC:H5'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6318:DG:H2''	11:AB:6319:DA:O5'	2.21	0.40
11:AB:6343:DT:H2'	11:AB:6344:DT:H72	2.02	0.40
11:AB:6346:DG:H2''	11:AB:6347:DA:O5'	2.21	0.40
11:AB:6898:DA:H1'	11:AB:6899:DC:H5'	2.03	0.40
11:AB:6905:DG:H2''	11:AB:6906:DC:OP2	2.19	0.40
11:AB:7076:DT:H1'	11:AB:7077:DC:H5'	2.02	0.40
11:AB:7115:DT:H2'	11:AB:7116:DT:H72	2.02	0.40
11:AB:7202:DG:H2''	11:AB:7203:DA:O5'	2.21	0.40
11:AB:7247:DG:H2''	11:AB:7248:DA:O5'	2.21	0.40
13:AD:28:DG:H2''	13:AD:29:DC:OP2	2.20	0.40
13:AD:36:DT:H2'	13:AD:37:DT:H72	2.02	0.40
14:B1:9:DG:H2''	14:B1:10:DA:O5'	2.21	0.40
18:B5:29:DG:H2''	18:B5:30:DA:O5'	2.21	0.40
20:B7:7:DA:H1'	20:B7:8:DC:H5'	2.03	0.40
23:BA:6:DT:H2'	23:BA:7:DT:H72	2.02	0.40
23:BA:17:DG:H2''	23:BA:18:DC:OP2	2.19	0.40
25:BD:5:DA:H1'	25:BD:6:DC:H5'	2.03	0.40
26:C1:23:DT:H2'	26:C1:24:DT:H72	2.02	0.40
27:C2:9:DG:H2''	27:C2:10:DA:O5'	2.21	0.40
28:C3:21:DG:H2''	28:C3:22:DA:O5'	2.21	0.40
29:C5:10:DG:H2''	29:C5:11:DA:O5'	2.21	0.40
30:C6:15:DT:H72	43:D8:42:DT:H2'	2.02	0.40
33:C9:1:DG:OP2	67:FA:18:DG:OP1	2.39	0.40
33:C9:11:DA:H1'	33:C9:12:DC:H5'	2.03	0.40
38:D2:1:DG:H2''	38:D2:2:DA:OP2	2.21	0.40
39:D3:20:DG:H2''	39:D3:21:DA:O5'	2.21	0.40
45:DA:22:DG:H2''	45:DA:23:DA:O5'	2.21	0.40
49:E2:21:DT:H2'	49:E2:22:DT:H72	2.02	0.40
49:E2:37:DA:H1'	108:J7:22:DC:H5'	2.03	0.40
52:E6:12:DA:H1'	52:E6:13:DC:H5'	2.03	0.40
55:E9:42:DA:OP1	81:H1:13:DG:H2''	2.22	0.40
60:F2:9:DT:H2'	60:F2:10:DT:H72	2.02	0.40
60:F2:25:DG:H2''	130:L7:15:DA:O5'	2.21	0.40
63:F6:14:DA:H1'	63:F6:15:DC:H5'	2.03	0.40
67:FA:18:DG:H2''	67:FA:19:DC:OP2	2.19	0.40
70:G1:2:DA:H1'	70:G1:3:DC:H5'	2.03	0.40
73:G5:15:DA:O5'	117:K5:32:DG:H2''	2.21	0.40
75:G7:9:DA:H1'	75:G7:10:DC:H5'	2.03	0.40
78:GA:13:DG:H2''	78:GA:14:DA:O5'	2.21	0.40
80:GD:7:DT:H2'	80:GD:8:DT:H72	2.02	0.40
82:H2:16:DT:H2'	82:H2:17:DT:H72	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:H2:30:DG:H2''	82:H2:31:DA:OP2	2.22	0.40
91:HD:22:DG:H2''	91:HD:23:DA:O5'	2.21	0.40
94:I3:25:DT:H72	107:J6:28:DT:H2'	2.02	0.40
104:J2:36:DA:H1'	104:J2:37:DC:H5'	2.03	0.40
105:J3:21:DT:H72	130:L7:49:DT:H2'	2.02	0.40
111:JA:13:DG:H2''	111:JA:14:DA:O5'	2.21	0.40
113:JD:14:DG:H2''	132:L9:15:DA:OP1	2.22	0.40
114:K1:10:DG:H2''	114:K1:11:DA:OP2	2.22	0.40
117:K5:30:DT:H2'	117:K5:31:DT:H72	2.02	0.40
126:L2:7:DA:H1'	126:L2:8:DC:H5'	2.03	0.40
126:L2:24:DG:H2''	126:L2:25:DA:OP2	2.21	0.40
129:L6:9:DT:H2'	129:L6:10:DT:H72	2.02	0.40
130:L7:50:DT:H2'	130:L7:51:DT:H72	2.02	0.40
130:L7:56:DG:H2''	130:L7:57:DA:OP2	2.22	0.40
133:LA:13:DG:C8	133:LA:14:DT:H72	2.55	0.40
135:LD:14:DA:O5'	143:MA:41:DG:H2''	2.21	0.40
135:LD:14:DA:OP1	143:MA:41:DG:H2''	2.21	0.40
141:M8:26:DA:H1'	141:M8:27:DC:H5'	2.03	0.40
141:M8:28:DT:H2'	141:M8:29:DT:H72	2.02	0.40
143:MA:11:DG:H2''	143:MA:12:DC:OP2	2.20	0.40
143:MA:37:DA:H1'	143:MA:38:DC:H5'	2.03	0.40
147:N3:22:DA:H1'	147:N3:23:DC:H5'	2.03	0.40
151:N8:4:DA:H1'	151:N8:5:DC:H5'	2.03	0.40
155:ND:3:DG:C8	155:ND:4:DT:H72	2.55	0.40
161:O8:15:DT:H1'	161:O8:16:DC:H5'	2.02	0.40
162:O9:14:DA:O5'	191:RA:27:DG:H2''	2.21	0.40
162:O9:14:DA:OP1	191:RA:27:DG:H2''	2.21	0.40
165:OD:35:DG:H2''	165:OD:36:DA:O5'	2.21	0.40
167:P3:4:DG:H2''	167:P3:5:DA:O5'	2.21	0.40
167:P3:18:DA:H1'	167:P3:19:DC:H5'	2.03	0.40
170:P7:17:DG:H2''	170:P7:18:DA:OP2	2.21	0.40
171:P8:16:DA:H1'	171:P8:17:DC:H5'	2.03	0.40
180:Q8:15:DT:H2''	180:Q8:16:DC:OP2	2.22	0.40
182:QA:2:DG:H2''	182:QA:3:DA:O5'	2.21	0.40
183:QC:16:DA:H1'	189:R8:15:DC:H5'	2.03	0.40
186:R3:16:DT:H2'	186:R3:17:DT:H72	2.02	0.40
187:R5:21:DG:H2''	187:R5:22:DA:O5'	2.21	0.40
187:R5:32:DT:H1'	187:R5:33:DC:H5'	2.02	0.40
187:R5:36:DA:O5'	223:V5:13:DG:H2''	2.21	0.40
189:R8:33:DT:H2'	189:R8:34:DT:H72	2.02	0.40
192:RC:29:DT:H2'	192:RC:30:DT:H72	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
195:S3:13:DT:H2''	195:S3:14:DC:OP2	2.22	0.40
196:S5:15:DA:H1'	196:S5:16:DC:H5'	2.03	0.40
196:S5:19:DA:H1'	196:S5:20:DC:H5'	2.03	0.40
197:S7:3:DA:H1'	197:S7:4:DC:H5'	2.03	0.40
198:S8:27:DG:H2''	198:S8:28:DA:OP2	2.22	0.40
198:S8:29:DG:H2''	198:S8:30:DA:O5'	2.21	0.40
198:S8:32:DA:H1'	198:S8:33:DC:H5'	2.03	0.40
199:S9:14:DT:H1'	199:S9:15:DC:H5'	2.02	0.40
199:S9:20:DG:H2''	199:S9:21:DC:OP2	2.20	0.40
201:SC:8:DA:H1'	201:SC:9:DC:H5'	2.03	0.40
202:SD:6:DG:H2''	202:SD:7:DA:O5'	2.21	0.40
202:SD:6:DG:H2''	202:SD:7:DA:OP2	2.21	0.40
205:T5:7:DT:H1'	205:T5:8:DC:H5'	2.02	0.40
205:T5:13:DA:H1'	205:T5:14:DC:H5'	2.03	0.40
208:T9:19:DT:H2'	208:T9:20:DT:H72	2.02	0.40
228:VC:12:DG:H2''	228:VC:13:DC:OP2	2.20	0.40
230:W3:30:DT:H1'	230:W3:31:DC:H5'	2.02	0.40
231:W5:33:DA:H1'	231:W5:34:DC:H5'	2.03	0.40
238:X9:42:DA:H1'	238:X9:43:DC:H5'	2.03	0.40
238:X9:49:DG:H2''	238:X9:50:DC:OP2	2.20	0.40
2:A2:15:DT:H2'	2:A2:16:DT:H72	2.02	0.40
3:A3:20:DG:H2''	3:A3:21:DA:OP2	2.21	0.40
11:AB:36:DT:H2'	11:AB:37:DT:H72	2.02	0.40
11:AB:121:DT:H2'	11:AB:122:DT:H72	2.02	0.40
11:AB:133:DT:H2'	11:AB:134:DT:H72	2.02	0.40
11:AB:234:DT:H1'	11:AB:235:DC:H5'	2.02	0.40
11:AB:337:DT:H2'	11:AB:338:DT:H72	2.02	0.40
11:AB:351:DG:H2''	11:AB:352:DA:OP2	2.21	0.40
11:AB:520:DT:H2''	11:AB:521:DC:OP2	2.22	0.40
11:AB:563:DT:H1'	11:AB:564:DC:H5'	2.02	0.40
11:AB:614:DG:H2''	11:AB:615:DA:O5'	2.21	0.40
11:AB:989:DG:H2''	11:AB:990:DA:OP2	2.21	0.40
11:AB:1016:DG:H2''	11:AB:1017:DA:OP2	2.22	0.40
11:AB:1060:DG:H2''	11:AB:1061:DC:OP2	2.20	0.40
11:AB:1155:DG:H2''	11:AB:1156:DA:O5'	2.21	0.40
11:AB:1158:DT:H2'	11:AB:1159:DT:H72	2.02	0.40
11:AB:1172:DT:H2'	11:AB:1173:DT:H72	2.02	0.40
11:AB:1229:DT:H1'	11:AB:1230:DC:H5'	2.02	0.40
11:AB:1271:DT:H2'	11:AB:1272:DT:H72	2.02	0.40
11:AB:1621:DA:H1'	11:AB:1622:DC:H5'	2.03	0.40
11:AB:1679:DT:H2'	11:AB:1680:DT:H72	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:1975:DT:H2'	11:AB:1976:DT:H72	2.02	0.40
11:AB:2011:DA:H1'	11:AB:2012:DC:H5'	2.03	0.40
11:AB:2081:DG:H2''	11:AB:2082:DC:OP2	2.20	0.40
11:AB:2135:DT:H2''	11:AB:2136:DC:OP2	2.22	0.40
11:AB:2151:DT:H1'	11:AB:2152:DC:H5'	2.02	0.40
11:AB:2169:DG:H2''	11:AB:2170:DC:OP2	2.20	0.40
11:AB:2197:DT:H2'	11:AB:2198:DT:H72	2.02	0.40
11:AB:2223:DA:H1'	11:AB:2224:DC:H5'	2.03	0.40
11:AB:2288:DA:H1'	11:AB:2289:DC:H5'	2.03	0.40
11:AB:2293:DT:H2'	11:AB:2294:DT:H72	2.02	0.40
11:AB:2322:DT:H2'	11:AB:2323:DT:H72	2.02	0.40
11:AB:2337:DG:H2''	11:AB:2338:DA:OP2	2.22	0.40
11:AB:2493:DT:H2'	11:AB:2494:DT:H72	2.02	0.40
11:AB:2540:DG:H2''	11:AB:2541:DA:OP2	2.21	0.40
11:AB:2649:DT:H2''	11:AB:2650:DC:OP2	2.22	0.40
11:AB:2723:DA:H1'	11:AB:2724:DC:H5'	2.03	0.40
11:AB:2767:DT:H2'	11:AB:2768:DT:H72	2.02	0.40
11:AB:2874:DT:H2'	11:AB:2875:DT:H72	2.02	0.40
11:AB:2968:DT:H1'	11:AB:2969:DC:H5'	2.02	0.40
11:AB:2986:DG:H2''	11:AB:2987:DA:O5'	2.21	0.40
11:AB:3001:DT:H2'	11:AB:3002:DT:H72	2.02	0.40
11:AB:3130:DG:H2''	11:AB:3131:DA:OP2	2.22	0.40
11:AB:3261:DT:H2'	11:AB:3262:DT:H72	2.02	0.40
11:AB:3479:DT:H2'	11:AB:3480:DT:H72	2.01	0.40
11:AB:3779:DG:H2''	11:AB:3780:DC:OP2	2.20	0.40
11:AB:3792:DT:H2''	11:AB:3793:DC:OP2	2.22	0.40
11:AB:3939:DT:H2'	11:AB:3940:DT:H72	2.02	0.40
11:AB:4158:DT:H1'	11:AB:4159:DC:H5'	2.02	0.40
11:AB:4358:DG:H2''	11:AB:4359:DA:O5'	2.21	0.40
11:AB:4383:DA:H1'	11:AB:4384:DC:H5'	2.03	0.40
11:AB:4563:DA:H1'	11:AB:4564:DC:H5'	2.03	0.40
11:AB:4566:DA:H1'	11:AB:4567:DC:H5'	2.03	0.40
11:AB:4581:DA:H1'	11:AB:4582:DC:H5'	2.03	0.40
11:AB:4725:DG:H2''	11:AB:4726:DC:OP2	2.20	0.40
11:AB:4892:DG:H2''	11:AB:4893:DA:OP2	2.21	0.40
11:AB:5005:DG:H2''	11:AB:5006:DA:O5'	2.21	0.40
11:AB:5062:DG:H2''	11:AB:5063:DC:OP2	2.20	0.40
11:AB:5066:DG:H2''	11:AB:5067:DA:OP2	2.22	0.40
11:AB:5415:DA:H1'	11:AB:5416:DC:H5'	2.03	0.40
11:AB:5460:DT:H1'	11:AB:5461:DC:H5'	2.02	0.40
11:AB:5686:DG:H2''	11:AB:5687:DA:OP2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:5704:DG:H2''	11:AB:5705:DC:OP2	2.20	0.40
11:AB:5730:DT:H2'	11:AB:5731:DT:H72	2.02	0.40
11:AB:5855:DT:H2'	11:AB:5856:DT:H72	2.02	0.40
11:AB:5864:DG:H2''	11:AB:5865:DC:OP2	2.20	0.40
11:AB:5875:DG:H2''	11:AB:5876:DA:O5'	2.21	0.40
11:AB:6073:DA:H1'	11:AB:6074:DC:H5'	2.03	0.40
11:AB:6124:DG:H2''	11:AB:6125:DA:O5'	2.21	0.40
11:AB:6151:DG:H2''	11:AB:6152:DA:OP2	2.21	0.40
11:AB:6250:DG:H2''	11:AB:6251:DA:O5'	2.21	0.40
11:AB:6376:DA:H1'	11:AB:6377:DC:H5'	2.03	0.40
11:AB:6578:DT:H2'	11:AB:6579:DT:H72	2.02	0.40
11:AB:6599:DT:H2'	11:AB:6600:DT:H72	2.02	0.40
11:AB:6705:DA:H1'	11:AB:6706:DC:H5'	2.03	0.40
11:AB:6707:DT:H2''	11:AB:6708:DC:OP2	2.22	0.40
11:AB:6780:DG:H2''	11:AB:6781:DA:OP2	2.21	0.40
11:AB:6785:DT:H2''	11:AB:6786:DC:OP2	2.22	0.40
11:AB:6802:DT:H2'	11:AB:6803:DT:H72	2.02	0.40
11:AB:6893:DG:H2''	11:AB:6894:DA:O5'	2.21	0.40
11:AB:6914:DT:H2''	11:AB:6915:DC:OP2	2.22	0.40
11:AB:6983:DT:H2'	11:AB:6984:DT:H72	2.02	0.40
11:AB:6987:DA:H1'	11:AB:6988:DC:H5'	2.03	0.40
11:AB:7046:DT:H2'	11:AB:7047:DT:H72	2.02	0.40
11:AB:7094:DT:H2'	11:AB:7095:DT:H72	2.02	0.40
11:AB:7113:DA:H1'	11:AB:7114:DC:H5'	2.03	0.40
11:AB:7221:DT:H2'	11:AB:7222:DT:H72	2.02	0.40
11:AB:7235:DG:H2''	11:AB:7236:DC:OP2	2.20	0.40
18:B5:15:DG:H2''	18:B5:16:DA:O5'	2.21	0.40
19:B6:21:DT:H2''	19:B6:22:DC:OP2	2.22	0.40
24:BC:28:DG:H2''	24:BC:29:DA:O5'	2.21	0.40
24:BC:39:DG:H2''	24:BC:40:DC:OP2	2.20	0.40
28:C3:22:DA:H1'	28:C3:23:DC:H5'	2.03	0.40
30:C6:10:DT:H1'	30:C6:11:DC:H5'	2.02	0.40
33:C9:5:DC:OP1	145:MD:58:DT:H2''	2.22	0.40
33:C9:27:DT:H1'	77:G9:1:DC:H5'	2.02	0.40
36:CD:3:DG:H2''	36:CD:4:DA:OP2	2.22	0.40
36:CD:10:DA:H1'	36:CD:11:DC:H5'	2.03	0.40
41:D6:18:DG:OP1	108:J7:53:DG:OP1	2.40	0.40
41:D6:19:DG:H2''	41:D6:20:DC:OP2	2.20	0.40
47:DD:29:DG:H2''	47:DD:30:DC:OP2	2.19	0.40
47:DD:32:DA:H1'	47:DD:33:DC:H5'	2.03	0.40
49:E2:40:DG:H2''	49:E2:41:DA:OP2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:E9:38:DG:H2''	55:E9:39:DA:OP2	2.21	0.40
55:E9:38:DG:OP1	143:MA:45:DG:OP1	2.40	0.40
57:EC:3:DA:H1'	57:EC:4:DC:H5'	2.03	0.40
59:F1:6:DT:H2''	59:F1:7:DC:OP2	2.22	0.40
60:F2:3:DA:H1'	60:F2:4:DC:H5'	2.03	0.40
60:F2:11:DA:H1'	206:T7:32:DC:H5'	2.03	0.40
62:F5:29:DT:H2'	62:F5:30:DT:H72	2.02	0.40
63:F6:20:DA:H1'	63:F6:21:DC:H5'	2.03	0.40
64:F7:16:DT:H1'	64:F7:17:DC:H5'	2.02	0.40
65:F8:8:DT:H2''	87:H8:18:DC:OP1	2.22	0.40
67:FA:27:DG:H2''	67:FA:28:DA:O5'	2.21	0.40
72:G3:12:DT:H1'	72:G3:13:DC:H5'	2.02	0.40
73:G5:14:DG:H2''	117:K5:33:DA:OP1	2.22	0.40
78:GA:10:DT:H2'	78:GA:11:DT:H72	2.02	0.40
84:H5:28:DA:H1'	84:H5:29:DC:H5'	2.03	0.40
89:HA:16:DT:H2'	89:HA:17:DT:H72	2.02	0.40
89:HA:25:DG:H2''	89:HA:26:DA:OP2	2.22	0.40
94:I3:33:DG:H2''	94:I3:34:DA:O5'	2.21	0.40
95:I5:6:DT:H2''	95:I5:7:DC:OP2	2.22	0.40
100:IA:10:DA:H1'	100:IA:11:DC:H5'	2.03	0.40
102:ID:2:DG:H2''	102:ID:3:DA:OP2	2.21	0.40
102:ID:11:DA:H1'	102:ID:12:DC:H5'	2.03	0.40
102:ID:13:DC:H5'	175:PD:13:DA:H1'	2.03	0.40
102:ID:33:DT:H2''	114:K1:1:DC:OP1	2.22	0.40
104:J2:24:DA:H1'	104:J2:25:DC:H5'	2.03	0.40
105:J3:9:DG:H2''	105:J3:10:DA:OP2	2.22	0.40
108:J7:11:DG:OP1	188:R7:13:DG:OP1	2.40	0.40
114:K1:44:DG:H2''	114:K1:45:DA:O5'	2.21	0.40
115:K2:22:DT:H2'	115:K2:23:DT:H72	2.02	0.40
121:K9:21:DC:H5'	200:SA:16:DA:H1'	2.03	0.40
122:KA:11:DG:OP1	173:PA:4:DG:OP1	2.40	0.40
122:KA:28:DG:H2''	124:KD:17:DA:OP1	2.21	0.40
125:L1:25:DG:H2''	125:L1:26:DC:OP2	2.20	0.40
126:L2:41:DA:H1'	126:L2:42:DC:H5'	2.03	0.40
130:L7:20:DT:H2''	130:L7:21:DC:OP2	2.22	0.40
132:L9:11:DG:OP1	218:UA:18:DG:OP1	2.40	0.40
138:M5:1:DC:H5'	223:V5:41:DT:H1'	2.02	0.40
149:N6:5:DT:H2'	149:N6:6:DT:H72	2.02	0.40
150:N7:20:DG:H2''	150:N7:21:DA:O5'	2.21	0.40
151:N8:8:DT:H1'	151:N8:9:DC:H5'	2.02	0.40
154:NC:11:DA:OP1	174:PC:20:DG:H2''	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
158:O5:32:DG:H2''	158:O5:33:DA:OP2	2.22	0.40
160:O7:1:DG:H2''	160:O7:2:DC:OP2	2.20	0.40
165:OD:1:DC:OP1	238:X9:17:DT:H2''	2.22	0.40
165:OD:32:DG:H2''	165:OD:33:DA:OP2	2.21	0.40
171:P8:22:DT:H2'	171:P8:23:DT:H72	2.02	0.40
173:PA:8:DA:H1'	173:PA:9:DC:H5'	2.03	0.40
178:Q5:18:DT:H2'	178:Q5:19:DT:H72	2.02	0.40
178:Q5:19:DT:H2'	178:Q5:20:DT:H72	2.02	0.40
181:Q9:9:DT:H2'	181:Q9:10:DT:H72	2.02	0.40
181:Q9:21:DA:H1'	181:Q9:22:DC:H5'	2.03	0.40
181:Q9:28:DT:H2'	181:Q9:29:DT:H72	2.02	0.40
183:QC:17:DA:H1'	183:QC:18:DC:H5'	2.03	0.40
183:QC:26:DT:H2'	183:QC:27:DT:H72	2.02	0.40
188:R7:14:DG:H2''	188:R7:15:DC:OP2	2.20	0.40
188:R7:22:DA:H1'	188:R7:23:DC:H5'	2.03	0.40
190:R9:20:DT:H2'	190:R9:21:DT:H72	2.02	0.40
198:S8:44:DA:H1'	198:S8:45:DC:H5'	2.03	0.40
204:T3:5:DG:H2''	204:T3:6:DC:OP2	2.20	0.40
204:T3:27:DT:H2''	204:T3:28:DC:OP2	2.22	0.40
209:TA:6:DG:H2''	209:TA:7:DA:O5'	2.21	0.40
209:TA:9:DG:H2''	209:TA:10:DA:OP2	2.22	0.40
217:U9:24:DG:H2''	217:U9:25:DA:O5'	2.21	0.40
218:UA:11:DG:H2''	218:UA:12:DA:OP2	2.21	0.40
221:V2:5:DA:H1'	221:V2:6:DC:H5'	2.03	0.40
222:V3:12:DG:H2''	222:V3:13:DA:O5'	2.21	0.40
226:V9:20:DA:H1'	226:V9:21:DC:H5'	2.03	0.40
227:VA:5:DG:H2''	227:VA:6:DA:O5'	2.21	0.40
230:W3:5:DT:H1'	230:W3:6:DC:H5'	2.02	0.40
234:W9:16:DG:H2''	234:W9:17:DA:O5'	2.21	0.40
236:X5:19:DG:H2''	236:X5:20:DA:OP2	2.22	0.40
238:X9:55:DG:H2''	238:X9:56:DA:OP2	2.22	0.40
238:X9:58:DA:H1'	238:X9:59:DC:H5'	2.03	0.40
2:A2:7:DG:OP1	117:K5:43:DG:OP1	2.40	0.40
5:A5:29:DA:H1'	5:A5:30:DC:H5'	2.03	0.40
11:AB:47:DA:H1'	11:AB:48:DC:H5'	2.03	0.40
11:AB:57:DT:H2''	11:AB:58:DC:OP2	2.22	0.40
11:AB:116:DT:H2''	11:AB:117:DC:OP2	2.22	0.40
11:AB:120:DT:H2'	11:AB:121:DT:H72	2.02	0.40
11:AB:132:DT:H2'	11:AB:133:DT:H72	2.02	0.40
11:AB:142:DT:H2'	11:AB:143:DT:H72	2.02	0.40
11:AB:356:DT:H1'	11:AB:357:DC:H5'	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:470:DT:H2''	11:AB:471:DC:OP2	2.22	0.40
11:AB:523:DA:H1'	11:AB:524:DC:H5'	2.03	0.40
11:AB:536:DG:H2''	11:AB:537:DC:OP2	2.19	0.40
11:AB:569:DT:H1'	11:AB:570:DC:H5'	2.02	0.40
11:AB:611:DT:H1'	11:AB:612:DC:H5'	2.02	0.40
11:AB:726:DG:H2''	11:AB:727:DC:OP2	2.20	0.40
11:AB:903:DT:H2''	11:AB:904:DC:OP2	2.22	0.40
11:AB:921:DG:H2''	11:AB:922:DA:OP2	2.21	0.40
11:AB:943:DG:H2''	11:AB:944:DC:OP2	2.20	0.40
11:AB:1126:DG:H2''	11:AB:1127:DC:OP2	2.20	0.40
11:AB:1189:DT:H2''	11:AB:1190:DC:OP2	2.22	0.40
11:AB:1250:DT:H1'	11:AB:1251:DC:H5'	2.02	0.40
11:AB:1354:DT:H2'	11:AB:1355:DT:H72	2.02	0.40
11:AB:1487:DT:H2'	11:AB:1488:DT:H72	2.02	0.40
11:AB:1636:DT:H2''	11:AB:1637:DC:OP2	2.22	0.40
11:AB:1721:DG:H2''	11:AB:1722:DA:OP2	2.22	0.40
11:AB:1748:DT:H2'	11:AB:1749:DT:H72	2.02	0.40
11:AB:1808:DG:H2''	11:AB:1809:DA:OP2	2.22	0.40
11:AB:1829:DG:H2''	11:AB:1830:DA:OP2	2.22	0.40
11:AB:1855:DG:H2''	11:AB:1856:DC:OP2	2.20	0.40
11:AB:1875:DG:H2''	11:AB:1876:DA:O5'	2.21	0.40
11:AB:1933:DT:H2'	11:AB:1934:DT:H72	2.02	0.40
11:AB:1949:DG:H2''	11:AB:1950:DC:OP2	2.20	0.40
11:AB:2086:DT:H2'	11:AB:2087:DT:H72	2.02	0.40
11:AB:2148:DT:H2'	11:AB:2149:DT:H72	2.02	0.40
11:AB:2160:DG:H2''	11:AB:2161:DA:OP2	2.21	0.40
11:AB:2171:DG:H2''	11:AB:2172:DC:OP2	2.20	0.40
11:AB:2228:DA:H1'	11:AB:2229:DC:H5'	2.03	0.40
11:AB:2313:DG:H2''	11:AB:2314:DA:OP2	2.21	0.40
11:AB:2424:DT:H1'	11:AB:2425:DC:H5'	2.02	0.40
11:AB:2453:DT:H2''	11:AB:2454:DC:OP2	2.22	0.40
11:AB:2465:DA:H1'	11:AB:2466:DC:H5'	2.03	0.40
11:AB:2528:DT:H2''	11:AB:2529:DC:OP2	2.22	0.40
11:AB:2570:DT:H2'	11:AB:2571:DT:H72	2.02	0.40
11:AB:2698:DG:H2''	11:AB:2699:DA:OP2	2.22	0.40
11:AB:2716:DA:H1'	11:AB:2717:DC:H5'	2.03	0.40
11:AB:2877:DG:H2''	11:AB:2878:DC:OP2	2.19	0.40
11:AB:2996:DG:H2''	11:AB:2997:DC:OP2	2.20	0.40
11:AB:3055:DT:H1'	11:AB:3056:DC:H5'	2.01	0.40
11:AB:3165:DT:H1'	11:AB:3166:DC:H5'	2.02	0.40
11:AB:3186:DT:H1'	11:AB:3187:DC:H5'	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:3236:DT:H2''	11:AB:3237:DC:OP2	2.22	0.40
11:AB:3283:DT:H1'	11:AB:3284:DC:H5'	2.02	0.40
11:AB:3304:DT:H2''	11:AB:3305:DT:H72	2.02	0.40
11:AB:3325:DG:H2''	11:AB:3326:DA:OP2	2.22	0.40
11:AB:3334:DG:H2''	11:AB:3335:DA:OP2	2.22	0.40
11:AB:3377:DA:H1'	11:AB:3378:DC:H5'	2.03	0.40
11:AB:3411:DT:H2''	11:AB:3412:DC:OP2	2.22	0.40
11:AB:3796:DG:H2''	11:AB:3797:DA:OP2	2.21	0.40
11:AB:3911:DT:H2''	11:AB:3912:DC:OP2	2.22	0.40
11:AB:3920:DT:H2''	11:AB:3921:DC:OP2	2.22	0.40
11:AB:3967:DT:H2''	11:AB:3968:DC:OP2	2.22	0.40
11:AB:4088:DG:H2''	11:AB:4089:DC:OP2	2.20	0.40
11:AB:4107:DG:H2''	11:AB:4108:DC:OP2	2.20	0.40
11:AB:4233:DG:H2''	11:AB:4234:DA:OP2	2.22	0.40
11:AB:4249:DG:H2''	11:AB:4250:DC:OP2	2.20	0.40
11:AB:4505:DT:H2''	11:AB:4506:DC:OP2	2.22	0.40
11:AB:4587:DA:H1'	11:AB:4588:DC:H5'	2.03	0.40
11:AB:4663:DG:H2''	11:AB:4664:DA:O5'	2.21	0.40
11:AB:4778:DG:H2''	11:AB:4779:DA:OP2	2.21	0.40
11:AB:4825:DT:H2''	11:AB:4826:DC:OP2	2.22	0.40
11:AB:4837:DG:H2''	11:AB:4838:DA:OP2	2.21	0.40
11:AB:4854:DG:H2''	11:AB:4855:DC:OP2	2.20	0.40
11:AB:4943:DG:H2''	11:AB:4944:DC:OP2	2.20	0.40
11:AB:5132:DG:H2''	11:AB:5133:DC:OP2	2.20	0.40
11:AB:5142:DA:H1'	11:AB:5143:DC:H5'	2.03	0.40
11:AB:5217:DT:H1'	11:AB:5218:DC:H5'	2.02	0.40
11:AB:5453:DT:H1'	11:AB:5454:DC:H5'	2.02	0.40
11:AB:5500:DT:H2''	11:AB:5501:DT:H72	2.02	0.40
11:AB:5524:DA:H1'	11:AB:5525:DC:H5'	2.03	0.40
11:AB:5530:DT:H1'	11:AB:5531:DC:H5'	2.02	0.40
11:AB:5545:DT:H2''	11:AB:5546:DC:OP2	2.22	0.40
11:AB:5778:DT:H2''	11:AB:5779:DT:H72	2.02	0.40
11:AB:5827:DA:H1'	11:AB:5828:DC:H5'	2.03	0.40
11:AB:5845:DG:H2''	11:AB:5846:DA:OP2	2.21	0.40
11:AB:5854:DT:H2''	11:AB:5855:DT:H72	2.02	0.40
11:AB:5966:DT:H2''	11:AB:5967:DT:H72	2.02	0.40
11:AB:6027:DA:H1'	11:AB:6028:DC:H5'	2.03	0.40
11:AB:6156:DT:H2''	11:AB:6157:DC:OP2	2.22	0.40
11:AB:6195:DT:H2''	11:AB:6196:DC:OP2	2.22	0.40
11:AB:6230:DA:H1'	11:AB:6231:DC:H5'	2.03	0.40
11:AB:6275:DT:H2''	11:AB:6276:DC:OP2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:6467:DT:H2'	11:AB:6468:DT:H72	2.02	0.40
11:AB:6488:DT:H2'	11:AB:6489:DT:H72	2.02	0.40
11:AB:6537:DA:H1'	11:AB:6538:DC:H5'	2.03	0.40
11:AB:6612:DT:H2''	11:AB:6613:DC:OP2	2.22	0.40
11:AB:6693:DG:H2''	11:AB:6694:DC:OP2	2.19	0.40
11:AB:6711:DT:H2''	11:AB:6712:DC:OP2	2.22	0.40
11:AB:6844:DA:H1'	11:AB:6845:DC:H5'	2.03	0.40
11:AB:6875:DT:H1'	11:AB:6876:DC:H5'	2.02	0.40
11:AB:6910:DT:H2''	11:AB:6911:DC:OP2	2.22	0.40
11:AB:6926:DA:H1'	11:AB:6927:DC:H5'	2.03	0.40
11:AB:6956:DT:H2'	11:AB:6957:DT:H72	2.02	0.40
11:AB:6979:DT:H2''	11:AB:6980:DC:OP2	2.22	0.40
11:AB:7067:DT:H2'	11:AB:7068:DT:H72	2.02	0.40
13:AD:16:DG:H2''	13:AD:17:DA:O5'	2.21	0.40
16:B3:19:DT:H2'	16:B3:20:DT:H72	2.02	0.40
18:B5:16:DA:H1'	18:B5:17:DC:H5'	2.03	0.40
18:B5:33:DG:H2''	18:B5:34:DA:OP2	2.22	0.40
22:B9:19:DT:H1'	22:B9:20:DC:H5'	2.02	0.40
28:C3:5:DA:H1'	28:C3:6:DC:H5'	2.03	0.40
30:C6:33:DG:H2''	30:C6:34:DA:O5'	2.21	0.40
30:C6:37:DG:H2''	30:C6:38:DA:O5'	2.21	0.40
32:C8:51:DT:H2'	32:C8:52:DT:H72	2.02	0.40
34:CA:11:DG:H2''	34:CA:12:DA:OP2	2.21	0.40
35:CC:33:DA:H1'	35:CC:34:DC:H5'	2.03	0.40
36:CD:17:DT:H2'	36:CD:18:DT:H72	2.02	0.40
37:D1:12:DG:H2''	37:D1:13:DA:OP2	2.22	0.40
39:D3:12:DT:H2''	39:D3:13:DC:OP2	2.22	0.40
40:D5:19:DG:H2''	40:D5:20:DA:OP2	2.21	0.40
41:D6:5:DG:H2''	41:D6:6:DC:OP2	2.20	0.40
45:DA:20:DG:H2''	45:DA:21:DA:O5'	2.21	0.40
46:DC:8:DG:H2''	46:DC:9:DC:OP2	2.19	0.40
47:DD:25:DG:H2''	47:DD:26:DA:OP2	2.22	0.40
48:E1:5:DG:H2''	48:E1:6:DA:O5'	2.21	0.40
49:E2:12:DT:H1'	49:E2:13:DC:H5'	2.02	0.40
54:E8:30:DT:H2''	90:HC:17:DC:OP1	2.22	0.40
55:E9:16:DT:H1'	55:E9:17:DC:H5'	2.02	0.40
55:E9:21:DC:H5'	190:R9:32:DA:H1'	2.03	0.40
58:ED:16:DA:H1'	58:ED:17:DC:H5'	2.03	0.40
59:F1:16:DA:H1'	59:F1:17:DC:H5'	2.03	0.40
62:F5:25:DC:H5'	139:M6:7:DA:H1'	2.03	0.40
67:FA:24:DT:H2'	67:FA:25:DT:H72	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:G1:8:DG:H2''	70:G1:9:DA:OP2	2.22	0.40
71:G2:12:DA:H1'	71:G2:13:DC:H5'	2.03	0.40
76:G8:12:DG:H2''	76:G8:13:DA:O5'	2.21	0.40
77:G9:8:DG:H2''	77:G9:9:DA:OP2	2.22	0.40
83:H3:22:DA:O5'	152:N9:31:DG:H2''	2.21	0.40
84:H5:4:DT:H2'	84:H5:5:DT:H72	2.02	0.40
87:H8:21:DG:H2''	87:H8:22:DA:OP2	2.21	0.40
92:I1:15:DG:H2''	92:I1:16:DA:OP2	2.21	0.40
93:I2:27:DT:H2'	93:I2:28:DT:H72	2.02	0.40
93:I2:45:DG:H2''	93:I2:46:DC:OP2	2.20	0.40
94:I3:29:DG:H2''	94:I3:30:DA:O5'	2.21	0.40
94:I3:50:DG:H2''	94:I3:51:DA:OP2	2.22	0.40
95:I5:29:DA:O5'	223:V5:6:DG:H2''	2.21	0.40
96:I6:6:DT:H2'	96:I6:7:DT:H72	2.02	0.40
96:I6:16:DA:H1'	96:I6:17:DC:H5'	2.03	0.40
97:I7:6:DA:H1'	97:I7:7:DC:H5'	2.03	0.40
98:I8:11:DT:H2''	98:I8:12:DC:OP2	2.22	0.40
104:J2:31:DT:H1'	104:J2:32:DC:H5'	2.02	0.40
108:J7:27:DT:H2''	108:J7:28:DC:OP2	2.22	0.40
113:JD:12:DG:H2''	113:JD:13:DC:OP2	2.20	0.40
116:K3:7:DA:H1'	116:K3:8:DC:H5'	2.03	0.40
116:K3:16:DG:H2''	116:K3:17:DA:OP2	2.22	0.40
116:K3:19:DA:H1'	116:K3:20:DC:H5'	2.03	0.40
119:K7:42:DT:H2'	119:K7:43:DT:H72	2.02	0.40
124:KD:1:DC:H5'	132:L9:19:DT:H1'	2.02	0.40
127:L3:15:DG:H2''	127:L3:16:DA:O5'	2.21	0.40
127:L3:16:DA:H1'	127:L3:17:DC:H5'	2.03	0.40
128:L5:17:DA:H1'	128:L5:18:DC:H5'	2.03	0.40
131:L8:13:DT:H2'	131:L8:14:DT:H72	2.02	0.40
133:LA:20:DT:H2'	133:LA:21:DT:H72	2.02	0.40
137:M3:5:DG:H2''	137:M3:6:DA:O5'	2.21	0.40
138:M5:12:DT:H2''	138:M5:13:DC:OP2	2.22	0.40
143:MA:21:DC:H5'	227:VA:18:DA:H1'	2.03	0.40
143:MA:23:DA:H1'	143:MA:24:DC:H5'	2.03	0.40
143:MA:35:DA:H1'	143:MA:36:DC:H5'	2.03	0.40
147:N3:2:DG:H2''	147:N3:3:DA:O5'	2.21	0.40
147:N3:12:DG:H2''	147:N3:13:DC:OP2	2.20	0.40
150:N7:3:DG:H2''	150:N7:4:DA:O5'	2.21	0.40
153:NA:5:DA:H1'	153:NA:6:DC:H5'	2.03	0.40
156:O2:47:DA:H1'	156:O2:48:DC:H5'	2.03	0.40
157:O3:5:DA:H1'	157:O3:6:DC:H5'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
158:O5:25:DA:H1'	158:O5:26:DC:H5'	2.03	0.40
160:O7:36:DG:H2''	160:O7:37:DA:OP2	2.22	0.40
160:O7:39:DA:H1'	160:O7:40:DC:H5'	2.03	0.40
175:PD:9:DA:H1'	175:PD:10:DC:H5'	2.03	0.40
179:Q7:17:DT:H1'	179:Q7:18:DC:H5'	2.01	0.40
181:Q9:2:DG:H2''	181:Q9:3:DA:O5'	2.21	0.40
181:Q9:8:DT:H2'	181:Q9:9:DT:H72	2.02	0.40
185:R2:5:DG:H2''	185:R2:6:DA:OP2	2.22	0.40
191:RA:9:DG:H2''	191:RA:10:DC:OP2	2.20	0.40
195:S3:26:DG:H2''	195:S3:27:DA:OP2	2.22	0.40
197:S7:19:DT:H2''	197:S7:20:DC:OP2	2.22	0.40
198:S8:13:DT:H1'	198:S8:14:DC:H5'	2.02	0.40
205:T5:22:DG:H2''	205:T5:23:DA:OP2	2.21	0.40
209:TA:23:DT:H1'	209:TA:24:DC:H5'	2.02	0.40
211:TD:6:DT:H2'	211:TD:7:DT:H72	2.02	0.40
211:TD:33:DT:H2'	211:TD:34:DT:H72	2.02	0.40
213:U3:1:DG:H2''	213:U3:2:DA:O5'	2.21	0.40
216:U8:15:DA:H1'	216:U8:16:DC:H5'	2.03	0.40
225:V8:13:DG:H2''	225:V8:14:DA:OP2	2.22	0.40
227:VA:2:DA:H1'	227:VA:3:DC:H5'	2.03	0.40
229:VD:2:DA:H1'	229:VD:3:DC:H5'	2.03	0.40
230:W3:9:DG:H2''	230:W3:10:DA:O5'	2.21	0.40

There are no symmetry-related clashes.

### 5.3 Torsion angles [i](#)

#### 5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

#### 5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

#### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
11	AB	1697
206	T7	23
22	B9	19
156	O2	19
94	I3	18
152	N9	18
93	I2	16
117	K5	16
41	D6	16
238	X9	15
187	R5	15
30	C6	15
83	H3	15
108	J7	15
161	O8	15
125	L1	15
143	MA	15
204	T3	15
154	NC	15
32	C8	14

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<b>Mol</b>	<b>Chain</b>	<b>Number of breaks</b>
82	H2	14
55	E9	14
43	D8	14
109	J8	14
114	K1	14
119	K7	14
1	A1	13
145	MD	13
209	TA	13
122	KA	13
130	L7	13
160	O7	13
230	W3	13
165	OD	12
223	V5	12
49	E2	12
69	FD	12
214	U5	12
14	B1	12
84	H5	12
126	L2	12
5	A5	11
95	I5	11
106	J5	11
29	C5	11
138	M5	11
113	JD	11
102	ID	11
198	S8	11
178	Q5	10
13	AD	10
104	J2	10
149	N6	10
190	R9	10
39	D3	10
62	F5	10
85	H6	10
167	P3	10
228	VC	10
24	BC	10
182	QA	10
211	TD	10

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<b>Mol</b>	<b>Chain</b>	<b>Number of breaks</b>
37	D1	9
60	F2	9
67	FA	9
107	J6	9
115	K2	9
31	C7	9
181	Q9	9
52	E6	9
88	H9	9
98	I8	9
227	VA	9
47	DD	9
74	G6	9
158	O5	9
147	N3	9
2	A2	8
18	B5	8
99	I9	8
48	E1	8
137	M3	8
44	D9	8
189	R8	8
54	E8	8
73	G5	8
173	PA	8
188	R7	8
226	V9	8
35	CC	8
58	ED	8
90	HC	8
97	I7	8
166	P2	8
207	T8	8
72	G3	8
196	S5	7
231	W5	7
10	AA	7
51	E5	7
61	F3	7
76	G8	7
197	S7	7
23	BA	7

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<b>Mol</b>	<b>Chain</b>	<b>Number of breaks</b>
46	DC	7
79	GC	7
110	J9	7
139	M6	7
194	S2	7
199	S9	7
212	U2	7
213	U3	7
225	V8	7
121	K9	7
124	KD	7
133	LA	7
172	P9	7
217	U9	7
219	UC	7
174	PC	7
148	N5	6
7	A7	6
64	F7	6
185	R2	6
4	A4	6
151	N8	6
195	S3	6
203	T2	6
216	U8	6
222	V3	6
17	B4	6
128	L5	6
140	M7	6
146	N2	6
183	QC	6
36	CD	6
103	J1	6
218	UA	6
220	UD	6
8	A8	6
68	FC	6
159	O6	6
169	P6	6
175	PD	6
192	RC	6
57	EC	6

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<b>Mol</b>	<b>Chain</b>	<b>Number of breaks</b>
186	R3	6
215	U7	6
3	A3	5
75	G7	5
86	H7	5
91	HD	5
191	RA	5
205	T5	5
210	TC	5
19	B6	5
28	C3	5
42	D7	5
70	G1	5
112	JC	5
134	LC	5
202	SD	5
155	ND	5
221	V2	5
234	W9	5
27	C2	5
33	C9	5
59	F1	5
65	F8	5
101	IC	5
105	J3	5
120	K8	5
123	KC	5
129	L6	5
164	OC	5
180	Q8	5
233	W8	5
20	B7	5
45	DA	5
111	JA	5
150	N7	5
56	EA	5
6	A6	5
26	C1	4
89	HA	4
40	D5	4
53	E7	4
63	F6	4

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<b>Mol</b>	<b>Chain</b>	<b>Number of breaks</b>
92	I1	4
229	VD	4
16	B3	4
87	H8	4
144	MC	4
157	O3	4
168	P5	4
170	P7	4
208	T9	4
66	F9	4
71	G2	4
96	I6	4
127	L3	4
184	QD	4
12	AC	4
80	GD	4
116	K3	4
131	L8	4
200	SA	4
224	V7	4
118	K6	4
177	Q3	4
21	B8	4
77	G9	4
78	GA	4
163	OA	4
38	D2	4
136	M2	4
153	NA	4
179	Q7	4
232	W7	4
34	CA	4
9	A9	4
141	M8	4
25	BD	3
15	B2	3
81	H1	3
132	L9	3
142	M9	3
162	O9	3
171	P8	3
236	X5	3

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Mol	Chain	Number of breaks
201	SC	3
100	IA	3
135	LD	2
235	WD	2
50	E3	2
193	RD	1
176	Q2	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1028:DC	O3'	1029:DG	P	6.25
1	AB	6965:DC	O3'	6966:DG	P	6.24
1	AB	5941:DC	O3'	5942:DG	P	6.21
1	AB	6135:DC	O3'	6136:DG	P	6.21
1	AB	6896:DT	O3'	6897:DG	P	6.15
1	AB	1168:DC	O3'	1169:DT	P	6.11
1	AB	3578:DC	O3'	3579:DT	P	6.10
1	AB	3626:DC	O3'	3627:DA	P	6.09
1	AB	5885:DC	O3'	5886:DT	P	6.09
1	AB	6107:DC	O3'	6108:DT	P	6.09
1	AB	1365:DG	O3'	1366:DC	P	6.08
1	AB	4305:DC	O3'	4306:DT	P	6.08
1	AB	5642:DC	O3'	5643:DA	P	6.08
1	AB	2005:DA	O3'	2006:DT	P	6.07
1	AB	6941:DC	O3'	6942:DG	P	6.07
1	AB	980:DT	O3'	981:DT	P	6.06
1	AB	1583:DA	O3'	1584:DT	P	6.06
1	AB	1330:DT	O3'	1331:DA	P	6.05
1	AB	2123:DG	O3'	2124:DG	P	6.05
1	AB	2213:DG	O3'	2214:DG	P	6.05
1	AB	6352:DA	O3'	6353:DT	P	6.05
1	AB	5822:DA	O3'	5823:DT	P	6.04
1	AB	6017:DA	O3'	6018:DT	P	6.04
1	AB	5131:DT	O3'	5132:DG	P	6.03
1	AB	5207:DT	O3'	5208:DG	P	6.03
1	AB	5321:DA	O3'	5322:DT	P	6.03
1	AB	6324:DT	O3'	6325:DT	P	6.03
1	AB	1045:DA	O3'	1046:DG	P	6.02
1	AB	4011:DT	O3'	4012:DT	P	6.02
1	AB	4151:DT	O3'	4152:DT	P	6.02
1	AB	5628:DT	O3'	5629:DT	P	6.02
1	AB	5732:DT	O3'	5733:DT	P	6.02

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1217:DG	O3'	1218:DA	P	6.01
1	AB	4333:DT	O3'	4334:DT	P	6.01
1	AB	6473:DT	O3'	6474:DG	P	6.01
1	AB	4389:DC	O3'	4390:DC	P	6.00
1	AB	4448:DC	O3'	4449:DA	P	6.00
1	AB	6556:DT	O3'	6557:DG	P	6.00
1	AB	1119:DG	O3'	1120:DT	P	5.98
1	AB	5283:DC	O3'	5284:DT	P	5.98
1	AB	7031:DT	O3'	7032:DG	P	5.98
1	AB	3355:DT	O3'	3356:DC	P	5.97
1	AB	3602:DC	O3'	3603:DT	P	5.97
1	AB	4991:DC	O3'	4992:DA	P	5.97
1	AB	5366:DC	O3'	5367:DT	P	5.97
1	AB	6636:DT	O3'	6637:DC	P	5.97
1	AB	5245:DA	O3'	5246:DC	P	5.96
1	AB	6226:DT	O3'	6227:DC	P	5.96
1	AB	6435:DT	O3'	6436:DC	P	5.96
1	AB	6601:DT	O3'	6602:DC	P	5.96
1	AB	2033:DG	O3'	2034:DT	P	5.95
1	AB	3983:DT	O3'	3984:DC	P	5.95
1	AB	5857:DT	O3'	5858:DC	P	5.95
1	AB	1674:DC	O3'	1675:DC	P	5.94
1	AB	3278:DT	O3'	3279:DA	P	5.94
1	AB	3530:DG	O3'	3531:DT	P	5.94
1	AB	3554:DG	O3'	3555:DG	P	5.94
1	AB	3895:DG	O3'	3896:DG	P	5.94
1	AB	4361:DT	O3'	4362:DC	P	5.94
1	AB	4718:DA	O3'	4719:DC	P	5.94
1	AB	4790:DA	O3'	4791:DC	P	5.94
1	AB	5061:DG	O3'	5062:DG	P	5.94
1	AB	5169:DT	O3'	5170:DC	P	5.94
1	AB	5614:DT	O3'	5615:DC	P	5.94
1	AB	6511:DG	O3'	6512:DT	P	5.94
1	AB	924:DG	O3'	925:DG	P	5.93
1	AB	2168:DG	O3'	2169:DG	P	5.93
1	AB	3643:DA	O3'	3644:DT	P	5.93
1	AB	3955:DG	O3'	3956:DT	P	5.93
1	AB	6159:DA	O3'	6160:DA	P	5.93
1	AB	6300:DA	O3'	6301:DT	P	5.93
1	AB	6788:DG	O3'	6789:DG	P	5.93
1	AB	1794:DT	O3'	1795:DT	P	5.92
1	AB	2050:DA	O3'	2051:DT	P	5.92

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2403:DA	O3'	2404:DA	P	5.92
1	AB	2573:DT	O3'	2574:DA	P	5.92
1	AB	2665:DT	O3'	2666:DA	P	5.92
1	AB	3116:DA	O3'	3117:DT	P	5.92
1	AB	3432:DT	O3'	3433:DT	P	5.92
1	AB	4081:DA	O3'	4082:DA	P	5.92
1	AB	4413:DT	O3'	4414:DT	P	5.92
1	AB	5687:DA	O3'	5688:DA	P	5.92
1	AB	5777:DA	O3'	5778:DT	P	5.92
1	AB	5979:DA	O3'	5980:DA	P	5.92
1	AB	7178:DC	O3'	7179:DT	P	5.92
1	AB	1059:DG	O3'	1060:DG	P	5.91
1	AB	2064:DA	O3'	2065:DA	P	5.91
1	AB	3671:DT	O3'	3672:DT	P	5.91
1	AB	3825:DT	O3'	3826:DT	P	5.91
1	AB	4588:DC	O3'	4589:DC	P	5.91
1	AB	5436:DT	O3'	5437:DT	P	5.91
1	AB	719:DA	O3'	720:DT	P	5.90
1	AB	4921:DC	O3'	4922:DC	P	5.90
1	AB	1295:DA	O3'	1296:DT	P	5.89
1	AB	2258:DT	O3'	2259:DA	P	5.89
1	AB	4455:DG	O3'	4456:DA	P	5.89
1	AB	4476:DA	O3'	4477:DC	P	5.89
1	AB	4553:DG	O3'	4554:DA	P	5.89
1	AB	6062:DC	O3'	6063:DC	P	5.89
1	AB	6397:DT	O3'	6398:DT	P	5.89
1	AB	6714:DG	O3'	6715:DG	P	5.89
1	AB	3720:DG	O3'	3721:DA	P	5.88
1	AB	4886:DG	O3'	4887:DA	P	5.88
1	AB	1004:DT	O3'	1005:DA	P	5.87
1	AB	6675:DG	O3'	6676:DA	P	5.87
1	AB	3685:DA	O3'	3686:DC	P	5.86
1	AB	3927:DT	O3'	3928:DT	P	5.86
1	AB	4693:DA	O3'	4694:DC	P	5.86
1	AB	4772:DA	O3'	4773:DC	P	5.86
1	AB	357:DC	O3'	358:DA	P	5.85
1	AB	2078:DA	O3'	2079:DC	P	5.85
1	AB	2481:DC	O3'	2482:DA	P	5.85
1	AB	2954:DC	O3'	2955:DT	P	5.85
1	AB	3790:DG	O3'	3791:DT	P	5.85
1	AB	4375:DG	O3'	4376:DG	P	5.85
1	AB	4736:DG	O3'	4737:DT	P	5.85

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	5096:DG	O3'	5097:DT	P	5.85
1	AB	5635:DG	O3'	5636:DG	P	5.85
1	AB	6121:DT	O3'	6122:DT	P	5.85
1	AB	1101:DG	O3'	1102:DA	P	5.84
1	AB	3909:DA	O3'	3910:DC	P	5.84
1	AB	4319:DT	O3'	4320:DT	P	5.84
1	AB	557:DC	O3'	558:DG	P	5.83
1	AB	804:DT	O3'	805:DG	P	5.83
1	AB	1087:DA	O3'	1088:DC	P	5.83
1	AB	2792:DT	O3'	2793:DG	P	5.83
1	AB	3678:DT	O3'	3679:DC	P	5.83
1	AB	4221:DC	O3'	4222:DT	P	5.83
1	AB	4518:DG	O3'	4519:DT	P	5.83
1	AB	6858:DT	O3'	6859:DC	P	5.83
1	AB	2325:DA	O3'	2326:DG	P	5.82
1	AB	3657:DG	O3'	3658:DA	P	5.82
1	AB	4847:DC	O3'	4848:DA	P	5.82
1	AB	5506:DG	O3'	5507:DA	P	5.82
1	AB	5576:DG	O3'	5577:DT	P	5.82
1	AB	6338:DC	O3'	6339:DA	P	5.82
1	AB	864:DT	O3'	865:DC	P	5.81
1	AB	2019:DC	O3'	2020:DT	P	5.81
1	AB	266:DG	O3'	267:DA	P	5.80
1	AB	3860:DA	O3'	3861:DA	P	5.80
1	AB	4441:DC	O3'	4442:DC	P	5.80
1	AB	4462:DG	O3'	4463:DC	P	5.78
1	AB	4469:DG	O3'	4470:DG	P	5.78
1	AB	5471:DC	O3'	5472:DC	P	5.78
1	AB	5621:DC	O3'	5622:DT	P	5.78
1	AB	5913:DT	O3'	5914:DG	P	5.78
1	AB	1492:DC	O3'	1493:DG	P	5.77
1	AB	1928:DC	O3'	1929:DG	P	5.77
1	AB	2619:DT	O3'	2620:DA	P	5.77
1	AB	2711:DT	O3'	2712:DA	P	5.77
1	AB	3197:DA	O3'	3198:DA	P	5.77
1	AB	3664:DC	O3'	3665:DC	P	5.77
1	AB	4347:DC	O3'	4348:DT	P	5.77
1	AB	4658:DG	O3'	4659:DC	P	5.77
1	AB	4754:DT	O3'	4755:DG	P	5.77
1	AB	4956:DA	O3'	4957:DT	P	5.77
1	AB	6187:DG	O3'	6188:DG	P	5.77
1	AB	1734:DA	O3'	1735:DA	P	5.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1861:DT	O3'	1862:DA	P	5.76
1	AB	3755:DG	O3'	3756:DC	P	5.76
1	AB	5401:DT	O3'	5402:DT	P	5.76
1	AB	5541:DT	O3'	5542:DT	P	5.76
1	AB	6265:DT	O3'	6266:DT	P	5.76
1	AB	1256:DG	O3'	1257:DG	P	5.75
1	AB	1411:DA	O3'	1412:DT	P	5.75
1	AB	2279:DG	O3'	2280:DC	P	5.75
1	AB	2873:DA	O3'	2874:DT	P	5.75
1	AB	3035:DA	O3'	3036:DT	P	5.75
1	AB	3650:DT	O3'	3651:DT	P	5.75
1	AB	701:DC	O3'	702:DC	P	5.74
1	AB	2286:DT	O3'	2287:DT	P	5.74
1	AB	2364:DT	O3'	2365:DT	P	5.74
1	AB	2442:DT	O3'	2443:DT	P	5.74
1	AB	2527:DT	O3'	2528:DT	P	5.74
1	AB	4623:DC	O3'	4624:DA	P	5.74
1	AB	2057:DT	O3'	2058:DT	P	5.73
1	AB	6753:DC	O3'	6754:DA	P	5.72
1	AB	6823:DC	O3'	6824:DA	P	5.72
1	AB	4483:DT	O3'	4484:DG	P	5.70
1	AB	4808:DA	O3'	4809:DG	P	5.70
1	AB	5026:DC	O3'	5027:DT	P	5.70
1	AB	2071:DA	O3'	2072:DG	P	5.67
1	AB	2272:DT	O3'	2273:DG	P	5.67
1	AB	744:DT	O3'	745:DG	P	5.66
1	AB	168:DG	O3'	169:DC	P	5.65
1	AB	1073:DT	O3'	1074:DG	P	5.65
1	AB	455:DT	O3'	456:DG	P	5.63
1	AB	7101:DC	O3'	7102:DG	P	5.61
1	AB	1052:DC	O3'	1053:DG	P	5.59
1	D1	14:DA	O3'	15:DG	P	5.17
1	N5	16:DC	O3'	17:DG	P	5.17
1	A2	24:DA	O3'	25:DG	P	5.16
1	A5	7:DC	O3'	8:DG	P	5.16
1	A7	34:DA	O3'	35:DG	P	5.16
1	C1	18:DA	O3'	19:DG	P	5.16
1	Q5	14:DA	O3'	15:DG	P	5.16
1	A1	40:DA	O3'	41:DG	P	5.15
1	B5	7:DA	O3'	8:DG	P	5.15
1	C8	17:DA	O3'	18:DG	P	5.15
1	C8	31:DA	O3'	32:DG	P	5.15

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D1	35:DT	O3'	36:DG	P	5.15
1	F2	4:DC	O3'	5:DG	P	5.15
1	F7	18:DA	O3'	19:DG	P	5.15
1	FA	14:DA	O3'	15:DG	P	5.15
1	I2	35:DA	O3'	36:DG	P	5.15
1	I3	38:DC	O3'	39:DG	P	5.15
1	I5	35:DT	O3'	36:DG	P	5.15
1	J5	28:DC	O3'	29:DG	P	5.15
1	J6	21:DA	O3'	22:DG	P	5.15
1	K2	16:DC	O3'	17:DG	P	5.15
1	R2	7:DA	O3'	8:DG	P	5.15
1	S5	28:DA	O3'	29:DG	P	5.15
1	X9	24:DA	O3'	25:DG	P	5.15
1	A2	10:DT	O3'	11:DG	P	5.14
1	A4	24:DA	O3'	25:DG	P	5.14
1	C5	6:DA	O3'	7:DA	P	5.14
1	C5	27:DA	O3'	28:DA	P	5.14
1	C8	45:DT	O3'	46:DG	P	5.14
1	F2	18:DT	O3'	19:DG	P	5.14
1	H2	20:DC	O3'	21:DG	P	5.14
1	HA	27:DA	O3'	28:DG	P	5.14
1	I9	16:DC	O3'	17:DG	P	5.14
1	M5	7:DA	O3'	8:DA	P	5.14
1	MD	37:DA	O3'	38:DG	P	5.14
1	N8	10:DA	O3'	11:DG	P	5.14
1	OD	28:DC	O3'	29:DG	P	5.14
1	R5	35:DA	O3'	36:DA	P	5.14
1	TA	11:DA	O3'	12:DG	P	5.14
1	V5	6:DG	O3'	7:DG	P	5.14
1	V5	27:DA	O3'	28:DA	P	5.14
1	W5	20:DA	O3'	21:DA	P	5.14
1	A3	16:DT	O3'	17:DG	P	5.13
1	A5	28:DA	O3'	29:DA	P	5.13
1	AA	16:DT	O3'	17:DG	P	5.13
1	AD	30:DA	O3'	31:DA	P	5.13
1	B9	7:DT	O3'	8:DG	P	5.13
1	B9	21:DT	O3'	22:DG	P	5.13
1	BD	16:DA	O3'	17:DG	P	5.13
1	C7	12:DT	O3'	13:DG	P	5.13
1	D5	16:DT	O3'	17:DA	P	5.13
1	E1	7:DG	O3'	8:DC	P	5.13
1	E2	16:DT	O3'	17:DG	P	5.13

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E5	27:DT	O3'	28:DG	P	5.13
1	E7	15:DT	O3'	16:DG	P	5.13
1	E9	34:DA	O3'	35:DA	P	5.13
1	F3	14:DA	O3'	15:DG	P	5.13
1	F6	13:DA	O3'	14:DA	P	5.13
1	FA	21:DA	O3'	22:DG	P	5.13
1	FD	7:DA	O3'	8:DG	P	5.13
1	FD	14:DA	O3'	15:DA	P	5.13
1	G7	4:DA	O3'	5:DA	P	5.13
1	G8	11:DA	O3'	12:DG	P	5.13
1	H2	13:DA	O3'	14:DG	P	5.13
1	H7	20:DG	O3'	21:DG	P	5.13
1	HD	16:DA	O3'	17:DG	P	5.13
1	I1	16:DA	O3'	17:DG	P	5.13
1	J2	35:DA	O3'	36:DA	P	5.13
1	K5	39:DG	O3'	40:DG	P	5.13
1	M3	14:DA	O3'	15:DA	P	5.13
1	N6	23:DT	O3'	24:DG	P	5.13
1	N9	17:DT	O3'	18:DG	P	5.13
1	OD	14:DA	O3'	15:DA	P	5.13
1	Q9	18:DA	O3'	19:DA	P	5.13
1	R9	11:DA	O3'	12:DA	P	5.13
1	R9	25:DA	O3'	26:DA	P	5.13
1	RA	20:DA	O3'	21:DA	P	5.13
1	RD	13:DA	O3'	14:DA	P	5.13
1	S3	21:DA	O3'	22:DG	P	5.13
1	S7	17:DA	O3'	18:DA	P	5.13
1	T2	16:DA	O3'	17:DA	P	5.13
1	T5	9:DA	O3'	10:DA	P	5.13
1	T7	17:DA	O3'	18:DA	P	5.13
1	TC	23:DA	O3'	24:DG	P	5.13
1	U5	7:DG	O3'	8:DG	P	5.13
1	U5	28:DA	O3'	29:DA	P	5.13
1	U8	10:DT	O3'	11:DG	P	5.13
1	U8	17:DA	O3'	18:DG	P	5.13
1	V3	4:DA	O3'	5:DA	P	5.13
1	VD	10:DA	O3'	11:DA	P	5.13
1	A1	12:DA	O3'	13:DC	P	5.12
1	A1	26:DC	O3'	27:DA	P	5.12
1	B1	28:DA	O3'	29:DA	P	5.12
1	B2	13:DA	O3'	14:DC	P	5.12
1	B3	13:DA	O3'	14:DT	P	5.12

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B4	13:DC	O3'	14:DG	P	5.12
1	B5	14:DA	O3'	15:DG	P	5.12
1	B6	14:DG	O3'	15:DG	P	5.12
1	BA	20:DA	O3'	21:DA	P	5.12
1	C3	16:DA	O3'	17:DA	P	5.12
1	C5	13:DA	O3'	14:DC	P	5.12
1	C5	34:DA	O3'	35:DG	P	5.12
1	C6	35:DA	O3'	36:DG	P	5.12
1	C8	24:DA	O3'	25:DG	P	5.12
1	C8	38:DA	O3'	39:DG	P	5.12
1	D3	18:DA	O3'	19:DA	P	5.12
1	D6	21:DA	O3'	22:DC	P	5.12
1	D7	14:DG	O3'	15:DG	P	5.12
1	D8	21:DC	O3'	22:DA	P	5.12
1	D9	21:DA	O3'	22:DA	P	5.12
1	DC	13:DC	O3'	14:DG	P	5.12
1	E2	37:DA	O3'	38:DC	P	5.12
1	E6	14:DA	O3'	15:DC	P	5.12
1	F2	11:DA	O3'	12:DG	P	5.12
1	F5	24:DA	O3'	25:DC	P	5.12
1	FD	28:DA	O3'	29:DC	P	5.12
1	G1	10:DC	O3'	11:DA	P	5.12
1	G7	18:DA	O3'	19:DC	P	5.12
1	GC	7:DA	O3'	8:DC	P	5.12
1	H1	13:DG	O3'	14:DG	P	5.12
1	H3	21:DA	O3'	22:DA	P	5.12
1	H3	28:DC	O3'	29:DA	P	5.12
1	H5	12:DT	O3'	13:DA	P	5.12
1	H6	14:DA	O3'	15:DA	P	5.12
1	H8	17:DA	O3'	18:DC	P	5.12
1	H9	10:DG	O3'	11:DG	P	5.12
1	I2	21:DG	O3'	22:DG	P	5.12
1	I3	10:DA	O3'	11:DC	P	5.12
1	I3	31:DA	O3'	32:DG	P	5.12
1	I5	28:DA	O3'	29:DA	P	5.12
1	I8	30:DA	O3'	31:DC	P	5.12
1	I9	23:DA	O3'	24:DG	P	5.12
1	J2	14:DA	O3'	15:DC	P	5.12
1	J6	7:DC	O3'	8:DA	P	5.12
1	J6	14:DA	O3'	15:DG	P	5.12
1	J7	35:DG	O3'	36:DG	P	5.12
1	J7	49:DA	O3'	50:DC	P	5.12

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J8	7:DA	O3'	8:DA	P	5.12
1	J9	13:DA	O3'	14:DC	P	5.12
1	JC	7:DA	O3'	8:DA	P	5.12
1	JD	7:DA	O3'	8:DA	P	5.12
1	K1	21:DA	O3'	22:DG	P	5.12
1	K2	30:DA	O3'	31:DT	P	5.12
1	K5	4:DC	O3'	5:DA	P	5.12
1	K7	11:DC	O3'	12:DA	P	5.12
1	KA	21:DA	O3'	22:DA	P	5.12
1	L2	13:DA	O3'	14:DA	P	5.12
1	L2	34:DA	O3'	35:DC	P	5.12
1	L5	14:DC	O3'	15:DA	P	5.12
1	L7	35:DA	O3'	36:DG	P	5.12
1	L7	42:DC	O3'	43:DA	P	5.12
1	LC	13:DA	O3'	14:DA	P	5.12
1	LD	13:DC	O3'	14:DA	P	5.12
1	M3	7:DA	O3'	8:DC	P	5.12
1	M5	35:DA	O3'	36:DC	P	5.12
1	M6	7:DA	O3'	8:DA	P	5.12
1	M7	3:DA	O3'	4:DA	P	5.12
1	MC	7:DC	O3'	8:DG	P	5.12
1	N2	7:DG	O3'	8:DG	P	5.12
1	N6	44:DA	O3'	45:DA	P	5.12
1	N9	3:DG	O3'	4:DG	P	5.12
1	O2	28:DG	O3'	29:DG	P	5.12
1	O3	17:DA	O3'	18:DG	P	5.12
1	O8	11:DA	O3'	12:DA	P	5.12
1	O8	32:DA	O3'	33:DA	P	5.12
1	OD	7:DA	O3'	8:DA	P	5.12
1	OD	21:DA	O3'	22:DG	P	5.12
1	P3	10:DC	O3'	11:DA	P	5.12
1	P3	31:DA	O3'	32:DC	P	5.12
1	P5	6:DA	O3'	7:DG	P	5.12
1	P7	13:DC	O3'	14:DA	P	5.12
1	QC	16:DA	O3'	17:DA	P	5.12
1	R5	28:DA	O3'	29:DA	P	5.12
1	R8	7:DA	O3'	8:DC	P	5.12
1	S2	4:DG	O3'	5:DG	P	5.12
1	SD	20:DA	O3'	21:DA	P	5.12
1	T7	31:DA	O3'	32:DC	P	5.12
1	T9	13:DA	O3'	14:DT	P	5.12
1	TA	4:DC	O3'	5:DG	P	5.12

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	V5	13:DG	O3'	14:DA	P	5.12
1	VA	11:DG	O3'	12:DG	P	5.12
1	VA	18:DA	O3'	19:DG	P	5.12
1	VC	14:DA	O3'	15:DA	P	5.12
1	WD	13:DT	O3'	14:DA	P	5.12
1	X9	52:DA	O3'	53:DG	P	5.12
1	A1	33:DA	O3'	34:DC	P	5.11
1	A1	47:DA	O3'	48:DA	P	5.11
1	A7	20:DT	O3'	21:DA	P	5.11
1	AD	37:DT	O3'	38:DG	P	5.11
1	B1	7:DG	O3'	8:DC	P	5.11
1	B1	14:DT	O3'	15:DA	P	5.11
1	B1	35:DT	O3'	36:DA	P	5.11
1	B5	28:DT	O3'	29:DG	P	5.11
1	B9	14:DG	O3'	15:DC	P	5.11
1	BC	27:DG	O3'	28:DG	P	5.11
1	C6	7:DG	O3'	8:DA	P	5.11
1	C6	14:DC	O3'	15:DT	P	5.11
1	CD	14:DG	O3'	15:DA	P	5.11
1	D1	7:DT	O3'	8:DC	P	5.11
1	D6	7:DT	O3'	8:DA	P	5.11
1	D6	14:DA	O3'	15:DA	P	5.11
1	D8	35:DG	O3'	36:DA	P	5.11
1	DD	27:DA	O3'	28:DT	P	5.11
1	E1	14:DG	O3'	15:DA	P	5.11
1	E3	14:DA	O3'	15:DC	P	5.11
1	E6	7:DG	O3'	8:DA	P	5.11
1	E6	21:DC	O3'	22:DC	P	5.11
1	E8	23:DA	O3'	24:DT	P	5.11
1	E9	20:DC	O3'	21:DC	P	5.11
1	E9	41:DG	O3'	42:DA	P	5.11
1	F2	25:DG	O3'	26:DA	P	5.11
1	F3	7:DC	O3'	8:DA	P	5.11
1	F5	3:DG	O3'	4:DC	P	5.11
1	F5	10:DT	O3'	11:DA	P	5.11
1	F5	17:DC	O3'	18:DG	P	5.11
1	F5	38:DT	O3'	39:DA	P	5.11
1	F7	4:DT	O3'	5:DA	P	5.11
1	F7	11:DA	O3'	12:DC	P	5.11
1	F9	13:DA	O3'	14:DC	P	5.11
1	G2	13:DC	O3'	14:DT	P	5.11
1	G5	7:DG	O3'	8:DG	P	5.11

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	G5	14:DG	O3'	15:DA	P	5.11
1	G6	30:DC	O3'	31:DA	P	5.11
1	H2	34:DC	O3'	35:DA	P	5.11
1	H5	5:DT	O3'	6:DG	P	5.11
1	H6	7:DG	O3'	8:DA	P	5.11
1	I2	42:DA	O3'	43:DC	P	5.11
1	I3	17:DG	O3'	18:DA	P	5.11
1	I3	45:DG	O3'	46:DC	P	5.11
1	I3	52:DC	O3'	53:DT	P	5.11
1	I6	14:DA	O3'	15:DC	P	5.11
1	I8	37:DG	O3'	38:DC	P	5.11
1	ID	5:DG	O3'	6:DA	P	5.11
1	J1	7:DC	O3'	8:DG	P	5.11
1	J1	21:DA	O3'	22:DT	P	5.11
1	J5	21:DG	O3'	22:DA	P	5.11
1	J8	14:DA	O3'	15:DC	P	5.11
1	J8	28:DG	O3'	29:DG	P	5.11
1	K1	14:DT	O3'	15:DA	P	5.11
1	K1	28:DG	O3'	29:DA	P	5.11
1	K5	32:DG	O3'	33:DA	P	5.11
1	K7	32:DG	O3'	33:DC	P	5.11
1	KA	35:DA	O3'	36:DT	P	5.11
1	L1	14:DA	O3'	15:DA	P	5.11
1	L1	21:DA	O3'	22:DT	P	5.11
1	L1	28:DC	O3'	29:DG	P	5.11
1	L2	20:DA	O3'	21:DT	P	5.11
1	L3	14:DT	O3'	15:DG	P	5.11
1	L7	7:DA	O3'	8:DA	P	5.11
1	L7	14:DT	O3'	15:DA	P	5.11
1	L7	28:DT	O3'	29:DC	P	5.11
1	L9	14:DG	O3'	15:DA	P	5.11
1	M6	14:DA	O3'	15:DT	P	5.11
1	M9	16:DA	O3'	17:DT	P	5.11
1	MA	41:DG	O3'	42:DA	P	5.11
1	MD	51:DC	O3'	52:DA	P	5.11
1	N2	14:DG	O3'	15:DC	P	5.11
1	N9	24:DG	O3'	25:DC	P	5.11
1	N9	38:DG	O3'	39:DA	P	5.11
1	ND	12:DT	O3'	13:DG	P	5.11
1	O2	14:DC	O3'	15:DA	P	5.11
1	O2	35:DA	O3'	36:DA	P	5.11
1	O5	34:DT	O3'	35:DA	P	5.11

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O7	12:DG	O3'	13:DG	P	5.11
1	O7	26:DG	O3'	27:DA	P	5.11
1	O8	18:DT	O3'	19:DA	P	5.11
1	O9	13:DT	O3'	14:DA	P	5.11
1	P3	17:DA	O3'	18:DA	P	5.11
1	P3	24:DT	O3'	25:DA	P	5.11
1	PA	14:DA	O3'	15:DA	P	5.11
1	PA	21:DA	O3'	22:DT	P	5.11
1	Q5	28:DG	O3'	29:DG	P	5.11
1	Q5	35:DT	O3'	36:DT	P	5.11
1	QA	7:DT	O3'	8:DA	P	5.11
1	QA	14:DG	O3'	15:DG	P	5.11
1	QD	14:DG	O3'	15:DC	P	5.11
1	R2	14:DT	O3'	15:DG	P	5.11
1	R7	9:DC	O3'	10:DG	P	5.11
1	R8	21:DT	O3'	22:DA	P	5.11
1	R9	32:DA	O3'	33:DA	P	5.11
1	S5	21:DC	O3'	22:DG	P	5.11
1	S7	10:DG	O3'	11:DC	P	5.11
1	S8	31:DT	O3'	32:DA	P	5.11
1	S9	16:DA	O3'	17:DT	P	5.11
1	SD	13:DT	O3'	14:DG	P	5.11
1	T3	14:DG	O3'	15:DC	P	5.11
1	T7	38:DG	O3'	39:DG	P	5.11
1	T7	52:DA	O3'	53:DA	P	5.11
1	TC	16:DC	O3'	17:DA	P	5.11
1	TD	28:DA	O3'	29:DT	P	5.11
1	TD	35:DA	O3'	36:DA	P	5.11
1	U2	16:DA	O3'	17:DC	P	5.11
1	U3	7:DT	O3'	8:DA	P	5.11
1	UA	14:DG	O3'	15:DC	P	5.11
1	UD	16:DA	O3'	17:DT	P	5.11
1	V2	4:DT	O3'	5:DA	P	5.11
1	V2	11:DT	O3'	12:DG	P	5.11
1	V3	11:DC	O3'	12:DG	P	5.11
1	V8	17:DA	O3'	18:DT	P	5.11
1	V8	24:DG	O3'	25:DA	P	5.11
1	V9	11:DA	O3'	12:DT	P	5.11
1	VA	4:DT	O3'	5:DG	P	5.11
1	VD	17:DA	O3'	18:DA	P	5.11
1	W3	14:DT	O3'	15:DA	P	5.11
1	W3	28:DT	O3'	29:DA	P	5.11

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	W3	42:DG	O3'	43:DA	P	5.11
1	W9	14:DG	O3'	15:DA	P	5.11
1	X9	3:DG	O3'	4:DG	P	5.11
1	X9	38:DT	O3'	39:DA	P	5.11
1	A1	5:DT	O3'	6:DA	P	5.10
1	A1	19:DT	O3'	20:DC	P	5.10
1	A5	14:DT	O3'	15:DC	P	5.10
1	A5	35:DA	O3'	36:DT	P	5.10
1	A8	16:DG	O3'	17:DA	P	5.10
1	AA	23:DG	O3'	24:DA	P	5.10
1	AC	16:DT	O3'	17:DC	P	5.10
1	B5	21:DT	O3'	22:DC	P	5.10
1	B9	35:DT	O3'	36:DC	P	5.10
1	C2	13:DT	O3'	14:DA	P	5.10
1	C6	21:DT	O3'	22:DA	P	5.10
1	C6	28:DT	O3'	29:DC	P	5.10
1	C7	5:DT	O3'	6:DC	P	5.10
1	C8	10:DA	O3'	11:DT	P	5.10
1	C9	4:DC	O3'	5:DC	P	5.10
1	CC	16:DT	O3'	17:DC	P	5.10
1	D1	28:DC	O3'	29:DC	P	5.10
1	D6	28:DT	O3'	29:DA	P	5.10
1	D6	35:DG	O3'	36:DC	P	5.10
1	D8	14:DT	O3'	15:DA	P	5.10
1	D8	28:DT	O3'	29:DC	P	5.10
1	D8	42:DT	O3'	43:DA	P	5.10
1	E2	23:DT	O3'	24:DC	P	5.10
1	E8	16:DA	O3'	17:DT	P	5.10
1	E9	27:DA	O3'	28:DT	P	5.10
1	ED	23:DC	O3'	24:DA	P	5.10
1	F1	4:DG	O3'	5:DA	P	5.10
1	F8	8:DT	O3'	9:DC	P	5.10
1	FC	7:DG	O3'	8:DA	P	5.10
1	FD	21:DA	O3'	22:DT	P	5.10
1	G6	23:DT	O3'	24:DA	P	5.10
1	G7	11:DA	O3'	12:DT	P	5.10
1	G8	4:DG	O3'	5:DA	P	5.10
1	GD	13:DG	O3'	14:DC	P	5.10
1	H2	27:DA	O3'	28:DT	P	5.10
1	H3	7:DT	O3'	8:DT	P	5.10
1	H3	35:DT	O3'	36:DC	P	5.10
1	H5	33:DG	O3'	34:DC	P	5.10

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	H9	3:DA	O3'	4:DT	P	5.10
1	H9	17:DC	O3'	18:DA	P	5.10
1	HC	16:DC	O3'	17:DC	P	5.10
1	I2	7:DA	O3'	8:DT	P	5.10
1	I2	28:DT	O3'	29:DC	P	5.10
1	I3	24:DT	O3'	25:DT	P	5.10
1	I5	7:DC	O3'	8:DA	P	5.10
1	I5	14:DG	O3'	15:DC	P	5.10
1	I7	20:DC	O3'	21:DC	P	5.10
1	I7	27:DT	O3'	28:DC	P	5.10
1	I8	23:DT	O3'	24:DA	P	5.10
1	IC	20:DC	O3'	21:DA	P	5.10
1	ID	12:DC	O3'	13:DC	P	5.10
1	J2	21:DG	O3'	22:DC	P	5.10
1	J2	28:DT	O3'	29:DC	P	5.10
1	J3	20:DT	O3'	21:DT	P	5.10
1	J6	28:DT	O3'	29:DA	P	5.10
1	J7	14:DT	O3'	15:DC	P	5.10
1	J7	21:DC	O3'	22:DC	P	5.10
1	J8	35:DC	O3'	36:DT	P	5.10
1	JD	21:DA	O3'	22:DT	P	5.10
1	JD	28:DC	O3'	29:DT	P	5.10
1	K1	7:DT	O3'	8:DC	P	5.10
1	K1	35:DT	O3'	36:DA	P	5.10
1	K2	23:DT	O3'	24:DA	P	5.10
1	K3	13:DT	O3'	14:DC	P	5.10
1	K5	46:DC	O3'	47:DC	P	5.10
1	K7	4:DC	O3'	5:DA	P	5.10
1	K7	25:DT	O3'	26:DT	P	5.10
1	K8	11:DA	O3'	12:DT	P	5.10
1	K9	13:DA	O3'	14:DT	P	5.10
1	K9	20:DG	O3'	21:DC	P	5.10
1	KA	7:DT	O3'	8:DC	P	5.10
1	KA	14:DC	O3'	15:DA	P	5.10
1	KC	16:DG	O3'	17:DA	P	5.10
1	KD	16:DG	O3'	17:DA	P	5.10
1	L1	7:DG	O3'	8:DA	P	5.10
1	L2	27:DC	O3'	28:DC	P	5.10
1	L6	16:DT	O3'	17:DA	P	5.10
1	L7	21:DC	O3'	22:DC	P	5.10
1	L8	17:DG	O3'	18:DC	P	5.10
1	LA	10:DT	O3'	11:DC	P	5.10

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	LA	17:DC	O3'	18:DC	P	5.10
1	M5	14:DA	O3'	15:DT	P	5.10
1	M5	28:DG	O3'	29:DT	P	5.10
1	M7	10:DT	O3'	11:DC	P	5.10
1	MA	20:DG	O3'	21:DC	P	5.10
1	MA	27:DC	O3'	28:DA	P	5.10
1	MA	34:DG	O3'	35:DA	P	5.10
1	MD	9:DA	O3'	10:DT	P	5.10
1	MD	30:DT	O3'	31:DA	P	5.10
1	MD	44:DA	O3'	45:DT	P	5.10
1	N3	28:DT	O3'	29:DC	P	5.10
1	N6	30:DA	O3'	31:DT	P	5.10
1	N6	37:DT	O3'	38:DT	P	5.10
1	N9	31:DG	O3'	32:DA	P	5.10
1	NC	10:DG	O3'	11:DA	P	5.10
1	NC	24:DG	O3'	25:DC	P	5.10
1	NC	31:DC	O3'	32:DC	P	5.10
1	O2	21:DA	O3'	22:DT	P	5.10
1	O2	49:DC	O3'	50:DC	P	5.10
1	O2	56:DC	O3'	57:DC	P	5.10
1	O3	10:DG	O3'	11:DA	P	5.10
1	O5	13:DT	O3'	14:DC	P	5.10
1	O5	20:DC	O3'	21:DC	P	5.10
1	O5	27:DG	O3'	28:DA	P	5.10
1	O6	7:DG	O3'	8:DC	P	5.10
1	O7	5:DG	O3'	6:DA	P	5.10
1	O7	19:DT	O3'	20:DC	P	5.10
1	O8	4:DT	O3'	5:DT	P	5.10
1	O8	25:DT	O3'	26:DC	P	5.10
1	OC	16:DC	O3'	17:DC	P	5.10
1	OD	42:DA	O3'	43:DT	P	5.10
1	OD	49:DT	O3'	50:DC	P	5.10
1	P2	16:DT	O3'	17:DT	P	5.10
1	P6	13:DT	O3'	14:DC	P	5.10
1	P8	17:DC	O3'	18:DT	P	5.10
1	P9	16:DT	O3'	17:DC	P	5.10
1	PA	7:DG	O3'	8:DA	P	5.10
1	PD	6:DC	O3'	7:DT	P	5.10
1	PD	13:DA	O3'	14:DT	P	5.10
1	Q5	7:DC	O3'	8:DC	P	5.10
1	Q8	16:DC	O3'	17:DA	P	5.10
1	Q9	11:DT	O3'	12:DA	P	5.10

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Q9	25:DC	O3'	26:DA	P	5.10
1	Q9	32:DT	O3'	33:DT	P	5.10
1	QC	23:DA	O3'	24:DT	P	5.10
1	QD	7:DC	O3'	8:DT	P	5.10
1	QD	21:DC	O3'	22:DT	P	5.10
1	R5	7:DC	O3'	8:DA	P	5.10
1	R5	14:DG	O3'	15:DT	P	5.10
1	R8	14:DT	O3'	15:DC	P	5.10
1	R9	4:DA	O3'	5:DT	P	5.10
1	R9	18:DA	O3'	19:DT	P	5.10
1	RC	20:DC	O3'	21:DC	P	5.10
1	S5	7:DC	O3'	8:DC	P	5.10
1	S8	17:DC	O3'	18:DC	P	5.10
1	S8	38:DT	O3'	39:DA	P	5.10
1	SA	16:DA	O3'	17:DT	P	5.10
1	T3	7:DC	O3'	8:DC	P	5.10
1	T3	21:DC	O3'	22:DC	P	5.10
1	T3	28:DC	O3'	29:DC	P	5.10
1	T7	24:DC	O3'	25:DA	P	5.10
1	T7	45:DT	O3'	46:DT	P	5.10
1	T8	16:DC	O3'	17:DC	P	5.10
1	TA	25:DG	O3'	26:DA	P	5.10
1	U5	14:DT	O3'	15:DC	P	5.10
1	U5	35:DT	O3'	36:DA	P	5.10
1	U9	16:DC	O3'	17:DA	P	5.10
1	UC	20:DA	O3'	21:DT	P	5.10
1	V7	16:DG	O3'	17:DA	P	5.10
1	V9	4:DG	O3'	5:DA	P	5.10
1	V9	18:DC	O3'	19:DA	P	5.10
1	VC	21:DT	O3'	22:DA	P	5.10
1	W3	21:DA	O3'	22:DT	P	5.10
1	W3	35:DC	O3'	36:DC	P	5.10
1	W8	16:DT	O3'	17:DA	P	5.10
1	X5	16:DT	O3'	17:DC	P	5.10
1	X9	17:DT	O3'	18:DA	P	5.10
1	A7	27:DT	O3'	28:DT	P	5.09
1	B7	13:DG	O3'	14:DT	P	5.09
1	B9	28:DG	O3'	29:DT	P	5.09
1	CD	7:DG	O3'	8:DT	P	5.09
1	D3	4:DT	O3'	5:DT	P	5.09
1	D3	11:DT	O3'	12:DT	P	5.09
1	E2	30:DG	O3'	31:DT	P	5.09

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	EC	7:DT	O3'	8:DT	P	5.09
1	F5	31:DT	O3'	32:DT	P	5.09
1	GC	14:DG	O3'	15:DT	P	5.09
1	H5	26:DT	O3'	27:DT	P	5.09
1	J5	14:DG	O3'	15:DT	P	5.09
1	J6	35:DG	O3'	36:DT	P	5.09
1	J8	21:DT	O3'	22:DT	P	5.09
1	JC	14:DT	O3'	15:DT	P	5.09
1	JD	14:DG	O3'	15:DT	P	5.09
1	K5	25:DG	O3'	26:DT	P	5.09
1	K6	13:DG	O3'	14:DT	P	5.09
1	K8	4:DG	O3'	5:DT	P	5.09
1	KA	28:DG	O3'	29:DT	P	5.09
1	MD	16:DT	O3'	17:DT	P	5.09
1	N8	17:DC	O3'	18:DT	P	5.09
1	O2	42:DG	O3'	43:DT	P	5.09
1	PC	20:DG	O3'	21:DT	P	5.09
1	Q3	20:DG	O3'	21:DT	P	5.09
1	R3	13:DG	O3'	14:DT	P	5.09
1	RA	27:DG	O3'	28:DT	P	5.09
1	S8	24:DG	O3'	25:DT	P	5.09
1	T3	35:DG	O3'	36:DT	P	5.09
1	TA	18:DG	O3'	19:DT	P	5.09
1	TA	39:DC	O3'	40:DT	P	5.09
1	TD	21:DG	O3'	22:DT	P	5.09
1	U3	14:DG	O3'	15:DT	P	5.09
1	V5	34:DT	O3'	35:DT	P	5.09
1	W5	27:DT	O3'	28:DT	P	5.09
1	X9	10:DG	O3'	11:DT	P	5.09
1	X9	31:DT	O3'	32:DT	P	5.09
1	A2	17:DT	O3'	18:DT	P	5.08
1	B6	7:DT	O3'	8:DT	P	5.08
1	B8	22:DT	O3'	23:DT	P	5.08
1	C1	11:DC	O3'	12:DT	P	5.08
1	E5	13:DT	O3'	14:DT	P	5.08
1	E8	30:DT	O3'	31:DT	P	5.08
1	FA	7:DT	O3'	8:DT	P	5.08
1	G9	5:DC	O3'	6:DT	P	5.08
1	J3	27:DT	O3'	28:DT	P	5.08
1	J7	28:DC	O3'	29:DT	P	5.08
1	J7	42:DC	O3'	43:DT	P	5.08
1	K5	11:DT	O3'	12:DT	P	5.08

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K7	18:DC	O3'	19:DT	P	5.08
1	L7	49:DT	O3'	50:DT	P	5.08
1	M3	21:DT	O3'	22:DT	P	5.08
1	N9	10:DT	O3'	11:DT	P	5.08
1	NC	17:DT	O3'	18:DT	P	5.08
1	T7	10:DC	O3'	11:DT	P	5.08
1	VC	7:DT	O3'	8:DT	P	5.08
1	A1	28:DC	O3'	29:DG	P	1.79
1	A1	52:DC	O3'	53:DG	P	1.79
1	A3	9:DC	O3'	10:DG	P	1.79
1	A3	12:DC	O3'	13:DG	P	1.79
1	A5	24:DC	O3'	25:DG	P	1.79
1	AA	10:DC	O3'	11:DG	P	1.79
1	AB	15:DC	O3'	16:DG	P	1.79
1	AB	203:DC	O3'	204:DG	P	1.79
1	AB	260:DC	O3'	261:DG	P	1.79
1	AB	293:DC	O3'	294:DG	P	1.79
1	AB	365:DC	O3'	366:DG	P	1.79
1	AB	428:DC	O3'	429:DG	P	1.79
1	AB	443:DC	O3'	444:DG	P	1.79
1	AB	627:DC	O3'	628:DG	P	1.79
1	AB	658:DC	O3'	659:DG	P	1.79
1	AB	686:DC	O3'	687:DG	P	1.79
1	AB	737:DC	O3'	738:DG	P	1.79
1	AB	823:DC	O3'	824:DG	P	1.79
1	AB	857:DC	O3'	858:DG	P	1.79
1	AB	860:DC	O3'	861:DG	P	1.79
1	AB	929:DC	O3'	930:DG	P	1.79
1	AB	944:DC	O3'	945:DG	P	1.79
1	AB	950:DC	O3'	951:DG	P	1.79
1	AB	968:DC	O3'	969:DG	P	1.79
1	AB	1019:DC	O3'	1020:DG	P	1.79
1	AB	1088:DC	O3'	1089:DG	P	1.79
1	AB	1100:DC	O3'	1101:DG	P	1.79
1	AB	1124:DC	O3'	1125:DG	P	1.79
1	AB	1227:DC	O3'	1228:DG	P	1.79
1	AB	1255:DC	O3'	1256:DG	P	1.79
1	AB	1266:DC	O3'	1267:DG	P	1.79
1	AB	1390:DC	O3'	1391:DG	P	1.79
1	AB	1407:DC	O3'	1408:DG	P	1.79
1	AB	1525:DC	O3'	1526:DG	P	1.79
1	AB	1723:DC	O3'	1724:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1810:DC	O3'	1811:DG	P	1.79
1	AB	1814:DC	O3'	1815:DG	P	1.79
1	AB	1820:DC	O3'	1821:DG	P	1.79
1	AB	1942:DC	O3'	1943:DG	P	1.79
1	AB	1980:DC	O3'	1981:DG	P	1.79
1	AB	1982:DC	O3'	1983:DG	P	1.79
1	AB	1997:DC	O3'	1998:DG	P	1.79
1	AB	2027:DC	O3'	2028:DG	P	1.79
1	AB	2055:DC	O3'	2056:DG	P	1.79
1	AB	2083:DC	O3'	2084:DG	P	1.79
1	AB	2109:DC	O3'	2110:DG	P	1.79
1	AB	2170:DC	O3'	2171:DG	P	1.79
1	AB	2172:DC	O3'	2173:DG	P	1.79
1	AB	2205:DC	O3'	2206:DG	P	1.79
1	AB	2208:DC	O3'	2209:DG	P	1.79
1	AB	2266:DC	O3'	2267:DG	P	1.79
1	AB	2312:DC	O3'	2313:DG	P	1.79
1	AB	2340:DC	O3'	2341:DG	P	1.79
1	AB	2414:DC	O3'	2415:DG	P	1.79
1	AB	2434:DC	O3'	2435:DG	P	1.79
1	AB	2454:DC	O3'	2455:DG	P	1.79
1	AB	2523:DC	O3'	2524:DG	P	1.79
1	AB	2525:DC	O3'	2526:DG	P	1.79
1	AB	2590:DC	O3'	2591:DG	P	1.79
1	AB	2655:DC	O3'	2656:DG	P	1.79
1	AB	2673:DC	O3'	2674:DG	P	1.79
1	AB	2919:DC	O3'	2920:DG	P	1.79
1	AB	2976:DC	O3'	2977:DG	P	1.79
1	AB	2995:DC	O3'	2996:DG	P	1.79
1	AB	3019:DC	O3'	3020:DG	P	1.79
1	AB	3141:DC	O3'	3142:DG	P	1.79
1	AB	3167:DC	O3'	3168:DG	P	1.79
1	AB	3207:DC	O3'	3208:DG	P	1.79
1	AB	3291:DC	O3'	3292:DG	P	1.79
1	AB	3457:DC	O3'	3458:DG	P	1.79
1	AB	3474:DC	O3'	3475:DG	P	1.79
1	AB	3490:DC	O3'	3491:DG	P	1.79
1	AB	3524:DC	O3'	3525:DG	P	1.79
1	AB	3528:DC	O3'	3529:DG	P	1.79
1	AB	3565:DC	O3'	3566:DG	P	1.79
1	AB	3567:DC	O3'	3568:DG	P	1.79
1	AB	3610:DC	O3'	3611:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	3620:DC	O3'	3621:DG	P	1.79
1	AB	3730:DC	O3'	3731:DG	P	1.79
1	AB	3756:DC	O3'	3757:DG	P	1.79
1	AB	3780:DC	O3'	3781:DG	P	1.79
1	AB	3954:DC	O3'	3955:DG	P	1.79
1	AB	3984:DC	O3'	3985:DG	P	1.79
1	AB	4003:DC	O3'	4004:DG	P	1.79
1	AB	4084:DC	O3'	4085:DG	P	1.79
1	AB	4086:DC	O3'	4087:DG	P	1.79
1	AB	4089:DC	O3'	4090:DG	P	1.79
1	AB	4104:DC	O3'	4105:DG	P	1.79
1	AB	4106:DC	O3'	4107:DG	P	1.79
1	AB	4111:DC	O3'	4112:DG	P	1.79
1	AB	4117:DC	O3'	4118:DG	P	1.79
1	AB	4132:DC	O3'	4133:DG	P	1.79
1	AB	4140:DC	O3'	4141:DG	P	1.79
1	AB	4144:DC	O3'	4145:DG	P	1.79
1	AB	4232:DC	O3'	4233:DG	P	1.79
1	AB	4247:DC	O3'	4248:DG	P	1.79
1	AB	4255:DC	O3'	4256:DG	P	1.79
1	AB	4289:DC	O3'	4290:DG	P	1.79
1	AB	4302:DC	O3'	4303:DG	P	1.79
1	AB	4321:DC	O3'	4322:DG	P	1.79
1	AB	4331:DC	O3'	4332:DG	P	1.79
1	AB	4430:DC	O3'	4431:DG	P	1.79
1	AB	4436:DC	O3'	4437:DG	P	1.79
1	AB	4481:DC	O3'	4482:DG	P	1.79
1	AB	4541:DC	O3'	4542:DG	P	1.79
1	AB	4589:DC	O3'	4590:DG	P	1.79
1	AB	4599:DC	O3'	4600:DG	P	1.79
1	AB	4601:DC	O3'	4602:DG	P	1.79
1	AB	4603:DC	O3'	4604:DG	P	1.79
1	AB	4610:DC	O3'	4611:DG	P	1.79
1	AB	4666:DC	O3'	4667:DG	P	1.79
1	AB	4671:DC	O3'	4672:DG	P	1.79
1	AB	4730:DC	O3'	4731:DG	P	1.79
1	AB	4735:DC	O3'	4736:DG	P	1.79
1	AB	4758:DC	O3'	4759:DG	P	1.79
1	AB	4800:DC	O3'	4801:DG	P	1.79
1	AB	4806:DC	O3'	4807:DG	P	1.79
1	AB	4867:DC	O3'	4868:DG	P	1.79
1	AB	4870:DC	O3'	4871:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4880:DC	O3'	4881:DG	P	1.79
1	AB	4883:DC	O3'	4884:DG	P	1.79
1	AB	4942:DC	O3'	4943:DG	P	1.79
1	AB	4952:DC	O3'	4953:DG	P	1.79
1	AB	4997:DC	O3'	4998:DG	P	1.79
1	AB	5011:DC	O3'	5012:DG	P	1.79
1	AB	5018:DC	O3'	5019:DG	P	1.79
1	AB	5071:DC	O3'	5072:DG	P	1.79
1	AB	5086:DC	O3'	5087:DG	P	1.79
1	AB	5095:DC	O3'	5096:DG	P	1.79
1	AB	5133:DC	O3'	5134:DG	P	1.79
1	AB	5149:DC	O3'	5150:DG	P	1.79
1	AB	5166:DC	O3'	5167:DG	P	1.79
1	AB	5214:DC	O3'	5215:DG	P	1.79
1	AB	5440:DC	O3'	5441:DG	P	1.79
1	AB	5447:DC	O3'	5448:DG	P	1.79
1	AB	5454:DC	O3'	5455:DG	P	1.79
1	AB	5532:DC	O3'	5533:DG	P	1.79
1	AB	5592:DC	O3'	5593:DG	P	1.79
1	AB	5703:DC	O3'	5704:DG	P	1.79
1	AB	5863:DC	O3'	5864:DG	P	1.79
1	AB	5865:DC	O3'	5866:DG	P	1.79
1	AB	5992:DC	O3'	5993:DG	P	1.79
1	AB	6063:DC	O3'	6064:DG	P	1.79
1	AB	6167:DC	O3'	6168:DG	P	1.79
1	AB	6169:DC	O3'	6170:DG	P	1.79
1	AB	6186:DC	O3'	6187:DG	P	1.79
1	AB	6336:DC	O3'	6337:DG	P	1.79
1	AB	6348:DC	O3'	6349:DG	P	1.79
1	AB	6412:DC	O3'	6413:DG	P	1.79
1	AB	6430:DC	O3'	6431:DG	P	1.79
1	AB	6478:DC	O3'	6479:DG	P	1.79
1	AB	6493:DC	O3'	6494:DG	P	1.79
1	AB	6572:DC	O3'	6573:DG	P	1.79
1	AB	6580:DC	O3'	6581:DG	P	1.79
1	AB	6591:DC	O3'	6592:DG	P	1.79
1	AB	6645:DC	O3'	6646:DG	P	1.79
1	AB	6723:DC	O3'	6724:DG	P	1.79
1	AB	6881:DC	O3'	6882:DG	P	1.79
1	AB	6948:DC	O3'	6949:DG	P	1.79
1	AB	7077:DC	O3'	7078:DG	P	1.79
1	AB	7090:DC	O3'	7091:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	7186:DC	O3'	7187:DG	P	1.79
1	AB	7201:DC	O3'	7202:DG	P	1.79
1	AB	7207:DC	O3'	7208:DG	P	1.79
1	AB	7215:DC	O3'	7216:DG	P	1.79
1	AB	7242:DC	O3'	7243:DG	P	1.79
1	AD	15:DC	O3'	16:DG	P	1.79
1	B1	8:DC	O3'	9:DG	P	1.79
1	B1	31:DC	O3'	32:DG	P	1.79
1	B5	2:DC	O3'	3:DG	P	1.79
1	B9	16:DC	O3'	17:DG	P	1.79
1	B9	33:DC	O3'	34:DG	P	1.79
1	BD	6:DC	O3'	7:DG	P	1.79
1	C3	23:DC	O3'	24:DG	P	1.79
1	C6	40:DC	O3'	41:DG	P	1.79
1	C8	27:DC	O3'	28:DG	P	1.79
1	C9	5:DC	O3'	6:DG	P	1.79
1	CC	17:DC	O3'	18:DG	P	1.79
1	D1	10:DC	O3'	11:DG	P	1.79
1	D3	9:DC	O3'	10:DG	P	1.79
1	D5	5:DC	O3'	6:DG	P	1.79
1	D6	4:DC	O3'	5:DG	P	1.79
1	D7	13:DC	O3'	14:DG	P	1.79
1	DA	19:DC	O3'	20:DG	P	1.79
1	DD	5:DC	O3'	6:DG	P	1.79
1	E1	13:DC	O3'	14:DG	P	1.79
1	E2	5:DC	O3'	6:DG	P	1.79
1	E2	39:DC	O3'	40:DG	P	1.79
1	E6	6:DC	O3'	7:DG	P	1.79
1	E6	15:DC	O3'	16:DG	P	1.79
1	E7	12:DC	O3'	13:DG	P	1.79
1	E8	27:DC	O3'	28:DG	P	1.79
1	E9	17:DC	O3'	18:DG	P	1.79
1	ED	30:DC	O3'	31:DG	P	1.79
1	ED	36:DC	O3'	37:DG	P	1.79
1	F1	1:DC	O3'	2:DG	P	1.79
1	F3	16:DC	O3'	17:DG	P	1.79
1	F6	10:DC	O3'	11:DG	P	1.79
1	F8	10:DC	O3'	11:DG	P	1.79
1	F9	14:DC	O3'	15:DG	P	1.79
1	FD	45:DC	O3'	46:DG	P	1.79
1	G1	7:DC	O3'	8:DG	P	1.79
1	G3	10:DC	O3'	11:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	G3	13:DC	O3'	14:DG	P	1.79
1	G3	19:DC	O3'	20:DG	P	1.79
1	G3	25:DC	O3'	26:DG	P	1.79
1	G5	13:DC	O3'	14:DG	P	1.79
1	G8	14:DC	O3'	15:DG	P	1.79
1	GA	1:DC	O3'	2:DG	P	1.79
1	GC	2:DC	O3'	3:DG	P	1.79
1	GC	16:DC	O3'	17:DG	P	1.79
1	H2	29:DC	O3'	30:DG	P	1.79
1	H3	36:DC	O3'	37:DG	P	1.79
1	H8	18:DC	O3'	19:DG	P	1.79
1	H9	19:DC	O3'	20:DG	P	1.79
1	H9	29:DC	O3'	30:DG	P	1.79
1	HC	14:DC	O3'	15:DG	P	1.79
1	HD	18:DC	O3'	19:DG	P	1.79
1	HD	24:DC	O3'	25:DG	P	1.79
1	I2	18:DC	O3'	19:DG	P	1.79
1	I2	29:DC	O3'	30:DG	P	1.79
1	I3	19:DC	O3'	20:DG	P	1.79
1	I3	46:DC	O3'	47:DG	P	1.79
1	I3	49:DC	O3'	50:DG	P	1.79
1	I8	38:DC	O3'	39:DG	P	1.79
1	I9	26:DC	O3'	27:DG	P	1.79
1	J2	15:DC	O3'	16:DG	P	1.79
1	J6	34:DC	O3'	35:DG	P	1.79
1	JA	9:DC	O3'	10:DG	P	1.79
1	JC	3:DC	O3'	4:DG	P	1.79
1	JD	13:DC	O3'	14:DG	P	1.79
1	JD	25:DC	O3'	26:DG	P	1.79
1	K2	10:DC	O3'	11:DG	P	1.79
1	K2	36:DC	O3'	37:DG	P	1.79
1	K3	5:DC	O3'	6:DG	P	1.79
1	K3	14:DC	O3'	15:DG	P	1.79
1	K7	8:DC	O3'	9:DG	P	1.79
1	KA	2:DC	O3'	3:DG	P	1.79
1	L1	5:DC	O3'	6:DG	P	1.79
1	L5	3:DC	O3'	4:DG	P	1.79
1	L6	24:DC	O3'	25:DG	P	1.79
1	L7	29:DC	O3'	30:DG	P	1.79
1	LA	18:DC	O3'	19:DG	P	1.79
1	LC	17:DC	O3'	18:DG	P	1.79
1	M3	25:DC	O3'	26:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	M6	20:DC	O3'	21:DG	P	1.79
1	MA	10:DC	O3'	11:DG	P	1.79
1	MA	13:DC	O3'	14:DG	P	1.79
1	MA	44:DC	O3'	45:DG	P	1.79
1	MD	12:DC	O3'	13:DG	P	1.79
1	MD	14:DC	O3'	15:DG	P	1.79
1	MD	32:DC	O3'	33:DG	P	1.79
1	N3	6:DC	O3'	7:DG	P	1.79
1	N3	18:DC	O3'	19:DG	P	1.79
1	N3	24:DC	O3'	25:DG	P	1.79
1	N5	11:DC	O3'	12:DG	P	1.79
1	N6	35:DC	O3'	36:DG	P	1.79
1	N7	12:DC	O3'	13:DG	P	1.79
1	N7	19:DC	O3'	20:DG	P	1.79
1	N9	25:DC	O3'	26:DG	P	1.79
1	NC	23:DC	O3'	24:DG	P	1.79
1	O2	38:DC	O3'	39:DG	P	1.79
1	O2	53:DC	O3'	54:DG	P	1.79
1	O6	6:DC	O3'	7:DG	P	1.79
1	O8	27:DC	O3'	28:DG	P	1.79
1	OA	3:DC	O3'	4:DG	P	1.79
1	OA	11:DC	O3'	12:DG	P	1.79
1	OC	10:DC	O3'	11:DG	P	1.79
1	OC	13:DC	O3'	14:DG	P	1.79
1	P2	10:DC	O3'	11:DG	P	1.79
1	P2	12:DC	O3'	13:DG	P	1.79
1	P3	2:DC	O3'	3:DG	P	1.79
1	P3	8:DC	O3'	9:DG	P	1.79
1	P6	6:DC	O3'	7:DG	P	1.79
1	P6	11:DC	O3'	12:DG	P	1.79
1	PD	19:DC	O3'	20:DG	P	1.79
1	Q2	14:DC	O3'	15:DG	P	1.79
1	Q3	18:DC	O3'	19:DG	P	1.79
1	Q5	4:DC	O3'	5:DG	P	1.79
1	Q5	8:DC	O3'	9:DG	P	1.79
1	Q9	15:DC	O3'	16:DG	P	1.79
1	QA	1:DC	O3'	2:DG	P	1.79
1	QA	5:DC	O3'	6:DG	P	1.79
1	QA	17:DC	O3'	18:DG	P	1.79
1	QA	23:DC	O3'	24:DG	P	1.79
1	R3	18:DC	O3'	19:DG	P	1.79
1	R5	9:DC	O3'	10:DG	P	1.79

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	R9	44:DC	O3'	45:DG	P	1.79
1	RA	14:DC	O3'	15:DG	P	1.79
1	RC	27:DC	O3'	28:DG	P	1.79
1	S9	9:DC	O3'	10:DG	P	1.79
1	SA	25:DC	O3'	26:DG	P	1.79
1	T3	2:DC	O3'	3:DG	P	1.79
1	T5	1:DC	O3'	2:DG	P	1.79
1	T8	21:DC	O3'	22:DG	P	1.79
1	TA	24:DC	O3'	25:DG	P	1.79
1	TD	38:DC	O3'	39:DG	P	1.79
1	TD	40:DC	O3'	41:DG	P	1.79
1	U2	19:DC	O3'	20:DG	P	1.79
1	U3	4:DC	O3'	5:DG	P	1.79
1	U5	6:DC	O3'	7:DG	P	1.79
1	U5	26:DC	O3'	27:DG	P	1.79
1	U9	19:DC	O3'	20:DG	P	1.79
1	U9	22:DC	O3'	23:DG	P	1.79
1	UA	15:DC	O3'	16:DG	P	1.79
1	UC	30:DC	O3'	31:DG	P	1.79
1	UD	6:DC	O3'	7:DG	P	1.79
1	V3	16:DC	O3'	17:DG	P	1.79
1	V5	2:DC	O3'	3:DG	P	1.79
1	V5	5:DC	O3'	6:DG	P	1.79
1	V7	15:DC	O3'	16:DG	P	1.79
1	V9	21:DC	O3'	22:DG	P	1.79
1	VA	21:DC	O3'	22:DG	P	1.79
1	VA	23:DC	O3'	24:DG	P	1.79
1	VC	32:DC	O3'	33:DG	P	1.79
1	VD	4:DC	O3'	5:DG	P	1.79
1	W3	36:DC	O3'	37:DG	P	1.79
1	W5	34:DC	O3'	35:DG	P	1.79
1	X5	18:DC	O3'	19:DG	P	1.79
1	X9	36:DC	O3'	37:DG	P	1.79
1	X9	54:DC	O3'	55:DG	P	1.79
1	AA	19:DC	O3'	20:DG	P	1.78
1	AB	7:DC	O3'	8:DG	P	1.78
1	AB	21:DC	O3'	22:DG	P	1.78
1	AB	40:DC	O3'	41:DG	P	1.78
1	AB	43:DC	O3'	44:DG	P	1.78
1	AB	52:DC	O3'	53:DG	P	1.78
1	AB	81:DC	O3'	82:DG	P	1.78
1	AB	100:DC	O3'	101:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	149:DC	O3'	150:DG	P	1.78
1	AB	167:DC	O3'	168:DG	P	1.78
1	AB	272:DC	O3'	273:DG	P	1.78
1	AB	288:DC	O3'	289:DG	P	1.78
1	AB	329:DC	O3'	330:DG	P	1.78
1	AB	350:DC	O3'	351:DG	P	1.78
1	AB	458:DC	O3'	459:DG	P	1.78
1	AB	479:DC	O3'	480:DG	P	1.78
1	AB	496:DC	O3'	497:DG	P	1.78
1	AB	521:DC	O3'	522:DG	P	1.78
1	AB	524:DC	O3'	525:DG	P	1.78
1	AB	535:DC	O3'	536:DG	P	1.78
1	AB	749:DC	O3'	750:DG	P	1.78
1	AB	767:DC	O3'	768:DG	P	1.78
1	AB	884:DC	O3'	885:DG	P	1.78
1	AB	914:DC	O3'	915:DG	P	1.78
1	AB	998:DC	O3'	999:DG	P	1.78
1	AB	1037:DC	O3'	1038:DG	P	1.78
1	AB	1039:DC	O3'	1040:DG	P	1.78
1	AB	1076:DC	O3'	1077:DG	P	1.78
1	AB	1118:DC	O3'	1119:DG	P	1.78
1	AB	1190:DC	O3'	1191:DG	P	1.78
1	AB	1196:DC	O3'	1197:DG	P	1.78
1	AB	1283:DC	O3'	1284:DG	P	1.78
1	AB	1335:DC	O3'	1336:DG	P	1.78
1	AB	1348:DC	O3'	1349:DG	P	1.78
1	AB	1449:DC	O3'	1450:DG	P	1.78
1	AB	1460:DC	O3'	1461:DG	P	1.78
1	AB	1468:DC	O3'	1469:DG	P	1.78
1	AB	1612:DC	O3'	1613:DG	P	1.78
1	AB	1659:DC	O3'	1660:DG	P	1.78
1	AB	1668:DC	O3'	1669:DG	P	1.78
1	AB	1738:DC	O3'	1739:DG	P	1.78
1	AB	1897:DC	O3'	1898:DG	P	1.78
1	AB	1904:DC	O3'	1905:DG	P	1.78
1	AB	1913:DC	O3'	1914:DG	P	1.78
1	AB	1921:DC	O3'	1922:DG	P	1.78
1	AB	1926:DC	O3'	1927:DG	P	1.78
1	AB	2012:DC	O3'	2013:DG	P	1.78
1	AB	2036:DC	O3'	2037:DG	P	1.78
1	AB	2237:DC	O3'	2238:DG	P	1.78
1	AB	2297:DC	O3'	2298:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2372:DC	O3'	2373:DG	P	1.78
1	AB	2450:DC	O3'	2451:DG	P	1.78
1	AB	2539:DC	O3'	2540:DG	P	1.78
1	AB	2714:DC	O3'	2715:DG	P	1.78
1	AB	2717:DC	O3'	2718:DG	P	1.78
1	AB	2876:DC	O3'	2877:DG	P	1.78
1	AB	2884:DC	O3'	2885:DG	P	1.78
1	AB	2886:DC	O3'	2887:DG	P	1.78
1	AB	2925:DC	O3'	2926:DG	P	1.78
1	AB	2940:DC	O3'	2941:DG	P	1.78
1	AB	3211:DC	O3'	3212:DG	P	1.78
1	AB	3229:DC	O3'	3230:DG	P	1.78
1	AB	3237:DC	O3'	3238:DG	P	1.78
1	AB	3543:DC	O3'	3544:DG	P	1.78
1	AB	3679:DC	O3'	3680:DG	P	1.78
1	AB	3722:DC	O3'	3723:DG	P	1.78
1	AB	3813:DC	O3'	3814:DG	P	1.78
1	AB	3878:DC	O3'	3879:DG	P	1.78
1	AB	3889:DC	O3'	3890:DG	P	1.78
1	AB	3912:DC	O3'	3913:DG	P	1.78
1	AB	3959:DC	O3'	3960:DG	P	1.78
1	AB	4017:DC	O3'	4018:DG	P	1.78
1	AB	4028:DC	O3'	4029:DG	P	1.78
1	AB	4035:DC	O3'	4036:DG	P	1.78
1	AB	4041:DC	O3'	4042:DG	P	1.78
1	AB	4060:DC	O3'	4061:DG	P	1.78
1	AB	4062:DC	O3'	4063:DG	P	1.78
1	AB	4072:DC	O3'	4073:DG	P	1.78
1	AB	4075:DC	O3'	4076:DG	P	1.78
1	AB	4153:DC	O3'	4154:DG	P	1.78
1	AB	4174:DC	O3'	4175:DG	P	1.78
1	AB	4179:DC	O3'	4180:DG	P	1.78
1	AB	4183:DC	O3'	4184:DG	P	1.78
1	AB	4186:DC	O3'	4187:DG	P	1.78
1	AB	4196:DC	O3'	4197:DG	P	1.78
1	AB	4211:DC	O3'	4212:DG	P	1.78
1	AB	4313:DC	O3'	4314:DG	P	1.78
1	AB	4343:DC	O3'	4344:DG	P	1.78
1	AB	4397:DC	O3'	4398:DG	P	1.78
1	AB	4461:DC	O3'	4462:DG	P	1.78
1	AB	4488:DC	O3'	4489:DG	P	1.78
1	AB	4516:DC	O3'	4517:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4573:DC	O3'	4574:DG	P	1.78
1	AB	4582:DC	O3'	4583:DG	P	1.78
1	AB	4632:DC	O3'	4633:DG	P	1.78
1	AB	4644:DC	O3'	4645:DG	P	1.78
1	AB	4655:DC	O3'	4656:DG	P	1.78
1	AB	4812:DC	O3'	4813:DG	P	1.78
1	AB	4819:DC	O3'	4820:DG	P	1.78
1	AB	4836:DC	O3'	4837:DG	P	1.78
1	AB	4903:DC	O3'	4904:DG	P	1.78
1	AB	4919:DC	O3'	4920:DG	P	1.78
1	AB	4960:DC	O3'	4961:DG	P	1.78
1	AB	4970:DC	O3'	4971:DG	P	1.78
1	AB	4975:DC	O3'	4976:DG	P	1.78
1	AB	4979:DC	O3'	4980:DG	P	1.78
1	AB	5034:DC	O3'	5035:DG	P	1.78
1	AB	5046:DC	O3'	5047:DG	P	1.78
1	AB	5052:DC	O3'	5053:DG	P	1.78
1	AB	5098:DC	O3'	5099:DG	P	1.78
1	AB	5122:DC	O3'	5123:DG	P	1.78
1	AB	5128:DC	O3'	5129:DG	P	1.78
1	AB	5175:DC	O3'	5176:DG	P	1.78
1	AB	5178:DC	O3'	5179:DG	P	1.78
1	AB	5190:DC	O3'	5191:DG	P	1.78
1	AB	5199:DC	O3'	5200:DG	P	1.78
1	AB	5202:DC	O3'	5203:DG	P	1.78
1	AB	5259:DC	O3'	5260:DG	P	1.78
1	AB	5261:DC	O3'	5262:DG	P	1.78
1	AB	5278:DC	O3'	5279:DG	P	1.78
1	AB	5324:DC	O3'	5325:DG	P	1.78
1	AB	5345:DC	O3'	5346:DG	P	1.78
1	AB	5409:DC	O3'	5410:DG	P	1.78
1	AB	5555:DC	O3'	5556:DG	P	1.78
1	AB	5682:DC	O3'	5683:DG	P	1.78
1	AB	5742:DC	O3'	5743:DG	P	1.78
1	AB	5908:DC	O3'	5909:DG	P	1.78
1	AB	5945:DC	O3'	5946:DG	P	1.78
1	AB	6145:DC	O3'	6146:DG	P	1.78
1	AB	6157:DC	O3'	6158:DG	P	1.78
1	AB	6217:DC	O3'	6218:DG	P	1.78
1	AB	6278:DC	O3'	6279:DG	P	1.78
1	AB	6330:DC	O3'	6331:DG	P	1.78
1	AB	6433:DC	O3'	6434:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6444:DC	O3'	6445:DG	P	1.78
1	AB	6610:DC	O3'	6611:DG	P	1.78
1	AB	6708:DC	O3'	6709:DG	P	1.78
1	AB	6764:DC	O3'	6765:DG	P	1.78
1	AB	6787:DC	O3'	6788:DG	P	1.78
1	AB	6832:DC	O3'	6833:DG	P	1.78
1	AB	6848:DC	O3'	6849:DG	P	1.78
1	AB	6900:DC	O3'	6901:DG	P	1.78
1	AB	6906:DC	O3'	6907:DG	P	1.78
1	AB	6911:DC	O3'	6912:DG	P	1.78
1	AB	6916:DC	O3'	6917:DG	P	1.78
1	AB	6939:DC	O3'	6940:DG	P	1.78
1	AB	6981:DC	O3'	6982:DG	P	1.78
1	AB	6996:DC	O3'	6997:DG	P	1.78
1	AB	6998:DC	O3'	6999:DG	P	1.78
1	AB	7011:DC	O3'	7012:DG	P	1.78
1	AB	7058:DC	O3'	7059:DG	P	1.78
1	AB	7156:DC	O3'	7157:DG	P	1.78
1	AB	7168:DC	O3'	7169:DG	P	1.78
1	AB	7173:DC	O3'	7174:DG	P	1.78
1	AB	7246:DC	O3'	7247:DG	P	1.78
1	AC	17:DC	O3'	18:DG	P	1.78
1	AC	19:DC	O3'	20:DG	P	1.78
1	B1	38:DC	O3'	39:DG	P	1.78
1	B7	8:DC	O3'	9:DG	P	1.78
1	B8	11:DC	O3'	12:DG	P	1.78
1	BA	9:DC	O3'	10:DG	P	1.78
1	BA	15:DC	O3'	16:DG	P	1.78
1	BC	5:DC	O3'	6:DG	P	1.78
1	BC	10:DC	O3'	11:DG	P	1.78
1	BD	9:DC	O3'	10:DG	P	1.78
1	C1	3:DC	O3'	4:DG	P	1.78
1	C3	7:DC	O3'	8:DG	P	1.78
1	C6	32:DC	O3'	33:DG	P	1.78
1	C9	12:DC	O3'	13:DG	P	1.78
1	C9	19:DC	O3'	20:DG	P	1.78
1	CC	27:DC	O3'	28:DG	P	1.78
1	D2	13:DC	O3'	14:DG	P	1.78
1	D2	16:DC	O3'	17:DG	P	1.78
1	D6	26:DC	O3'	27:DG	P	1.78
1	D7	17:DC	O3'	18:DG	P	1.78
1	D8	24:DC	O3'	25:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D8	39:DC	O3'	40:DG	P	1.78
1	D9	29:DC	O3'	30:DG	P	1.78
1	DD	33:DC	O3'	34:DG	P	1.78
1	DD	45:DC	O3'	46:DG	P	1.78
1	E1	25:DC	O3'	26:DG	P	1.78
1	E3	3:DC	O3'	4:DG	P	1.78
1	E5	6:DC	O3'	7:DG	P	1.78
1	E5	10:DC	O3'	11:DG	P	1.78
1	E6	32:DC	O3'	33:DG	P	1.78
1	E9	21:DC	O3'	22:DG	P	1.78
1	E9	40:DC	O3'	41:DG	P	1.78
1	EA	19:DC	O3'	20:DG	P	1.78
1	ED	8:DC	O3'	9:DG	P	1.78
1	F1	17:DC	O3'	18:DG	P	1.78
1	F2	23:DC	O3'	24:DG	P	1.78
1	FC	6:DC	O3'	7:DG	P	1.78
1	FD	43:DC	O3'	44:DG	P	1.78
1	G1	15:DC	O3'	16:DG	P	1.78
1	GC	11:DC	O3'	12:DG	P	1.78
1	GC	13:DC	O3'	14:DG	P	1.78
1	H5	2:DC	O3'	3:DG	P	1.78
1	H6	28:DC	O3'	29:DG	P	1.78
1	H7	23:DC	O3'	24:DG	P	1.78
1	H9	15:DC	O3'	16:DG	P	1.78
1	I2	40:DC	O3'	41:DG	P	1.78
1	I3	28:DC	O3'	29:DG	P	1.78
1	I3	56:DC	O3'	57:DG	P	1.78
1	I6	4:DC	O3'	5:DG	P	1.78
1	I7	7:DC	O3'	8:DG	P	1.78
1	I7	10:DC	O3'	11:DG	P	1.78
1	I7	32:DC	O3'	33:DG	P	1.78
1	I8	31:DC	O3'	32:DG	P	1.78
1	IC	17:DC	O3'	18:DG	P	1.78
1	ID	31:DC	O3'	32:DG	P	1.78
1	J1	3:DC	O3'	4:DG	P	1.78
1	J1	23:DC	O3'	24:DG	P	1.78
1	J1	25:DC	O3'	26:DG	P	1.78
1	J2	11:DC	O3'	12:DG	P	1.78
1	J2	25:DC	O3'	26:DG	P	1.78
1	J5	20:DC	O3'	21:DG	P	1.78
1	J5	32:DC	O3'	33:DG	P	1.78
1	J8	41:DC	O3'	42:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J8	43:DC	O3'	44:DG	P	1.78
1	J9	14:DC	O3'	15:DG	P	1.78
1	J9	17:DC	O3'	18:DG	P	1.78
1	J9	19:DC	O3'	20:DG	P	1.78
1	JD	32:DC	O3'	33:DG	P	1.78
1	K2	19:DC	O3'	20:DG	P	1.78
1	K7	28:DC	O3'	29:DG	P	1.78
1	K8	7:DC	O3'	8:DG	P	1.78
1	K9	24:DC	O3'	25:DG	P	1.78
1	KC	20:DC	O3'	21:DG	P	1.78
1	L2	35:DC	O3'	36:DG	P	1.78
1	L8	24:DC	O3'	25:DG	P	1.78
1	L9	13:DC	O3'	14:DG	P	1.78
1	LA	11:DC	O3'	12:DG	P	1.78
1	M2	7:DC	O3'	8:DG	P	1.78
1	M6	18:DC	O3'	19:DG	P	1.78
1	MA	39:DC	O3'	40:DG	P	1.78
1	MC	3:DC	O3'	4:DG	P	1.78
1	NA	6:DC	O3'	7:DG	P	1.78
1	NA	16:DC	O3'	17:DG	P	1.78
1	NC	25:DC	O3'	26:DG	P	1.78
1	O2	17:DC	O3'	18:DG	P	1.78
1	O5	26:DC	O3'	27:DG	P	1.78
1	O5	48:DC	O3'	49:DG	P	1.78
1	O6	9:DC	O3'	10:DG	P	1.78
1	O7	11:DC	O3'	12:DG	P	1.78
1	O8	50:DC	O3'	51:DG	P	1.78
1	OD	50:DC	O3'	51:DG	P	1.78
1	P2	20:DC	O3'	21:DG	P	1.78
1	P5	2:DC	O3'	3:DG	P	1.78
1	PA	35:DC	O3'	36:DG	P	1.78
1	PA	37:DC	O3'	38:DG	P	1.78
1	PC	6:DC	O3'	7:DG	P	1.78
1	Q5	37:DC	O3'	38:DG	P	1.78
1	Q7	6:DC	O3'	7:DG	P	1.78
1	Q7	12:DC	O3'	13:DG	P	1.78
1	Q7	24:DC	O3'	25:DG	P	1.78
1	QC	18:DC	O3'	19:DG	P	1.78
1	R3	12:DC	O3'	13:DG	P	1.78
1	R5	19:DC	O3'	20:DG	P	1.78
1	RA	25:DC	O3'	26:DG	P	1.78
1	S2	11:DC	O3'	12:DG	P	1.78

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	S3	6:DC	O3'	7:DG	P	1.78
1	S5	8:DC	O3'	9:DG	P	1.78
1	S7	5:DC	O3'	6:DG	P	1.78
1	S8	33:DC	O3'	34:DG	P	1.78
1	S9	21:DC	O3'	22:DG	P	1.78
1	SA	7:DC	O3'	8:DG	P	1.78
1	SC	18:DC	O3'	19:DG	P	1.78
1	SD	5:DC	O3'	6:DG	P	1.78
1	T2	21:DC	O3'	22:DG	P	1.78
1	T3	13:DC	O3'	14:DG	P	1.78
1	T3	22:DC	O3'	23:DG	P	1.78
1	T3	43:DC	O3'	44:DG	P	1.78
1	T7	1:DC	O3'	2:DG	P	1.78
1	T7	20:DC	O3'	21:DG	P	1.78
1	TA	13:DC	O3'	14:DG	P	1.78
1	TA	17:DC	O3'	18:DG	P	1.78
1	TA	28:DC	O3'	29:DG	P	1.78
1	TD	9:DC	O3'	10:DG	P	1.78
1	U8	13:DC	O3'	14:DG	P	1.78
1	UA	10:DC	O3'	11:DG	P	1.78
1	UD	18:DC	O3'	19:DG	P	1.78
1	V2	6:DC	O3'	7:DG	P	1.78
1	V8	21:DC	O3'	22:DG	P	1.78
1	W7	18:DC	O3'	19:DG	P	1.78
1	W7	22:DC	O3'	23:DG	P	1.78
1	X9	2:DC	O3'	3:DG	P	1.78
1	A1	22:DA	O3'	23:DG	P	1.77
1	A2	2:DA	O3'	3:DG	P	1.77
1	A2	6:DA	O3'	7:DG	P	1.77
1	A4	7:DA	O3'	8:DG	P	1.77
1	A4	9:DA	O3'	10:DG	P	1.77
1	A5	18:DA	O3'	19:DG	P	1.77
1	A5	22:DA	O3'	23:DG	P	1.77
1	A5	37:DA	O3'	38:DG	P	1.77
1	A7	7:DA	O3'	8:DG	P	1.77
1	A7	13:DT	O3'	14:DG	P	1.77
1	A8	6:DA	O3'	7:DG	P	1.77
1	AA	22:DA	O3'	23:DG	P	1.77
1	AA	25:DA	O3'	26:DG	P	1.77
1	AB	125:DA	O3'	126:DG	P	1.77
1	AB	179:DA	O3'	180:DG	P	1.77
1	AB	219:DA	O3'	220:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	222:DT	O3'	223:DG	P	1.77
1	AB	227:DA	O3'	228:DG	P	1.77
1	AB	242:DA	O3'	243:DG	P	1.77
1	AB	335:DA	O3'	336:DG	P	1.77
1	AB	358:DA	O3'	359:DG	P	1.77
1	AB	404:DT	O3'	405:DG	P	1.77
1	AB	406:DA	O3'	407:DG	P	1.77
1	AB	421:DA	O3'	422:DG	P	1.77
1	AB	425:DT	O3'	426:DG	P	1.77
1	AB	436:DA	O3'	437:DG	P	1.77
1	AB	451:DA	O3'	452:DG	P	1.77
1	AB	475:DA	O3'	476:DG	P	1.77
1	AB	547:DA	O3'	548:DG	P	1.77
1	AB	580:DA	O3'	581:DG	P	1.77
1	AB	583:DA	O3'	584:DG	P	1.77
1	AB	589:DA	O3'	590:DG	P	1.77
1	AB	613:DA	O3'	614:DG	P	1.77
1	AB	621:DA	O3'	622:DG	P	1.77
1	AB	633:DA	O3'	634:DG	P	1.77
1	AB	637:DA	O3'	638:DG	P	1.77
1	AB	665:DT	O3'	666:DG	P	1.77
1	AB	674:DA	O3'	675:DG	P	1.77
1	AB	725:DA	O3'	726:DG	P	1.77
1	AB	734:DT	O3'	735:DG	P	1.77
1	AB	759:DA	O3'	760:DG	P	1.77
1	AB	790:DA	O3'	791:DG	P	1.77
1	AB	815:DA	O3'	816:DG	P	1.77
1	AB	937:DA	O3'	938:DG	P	1.77
1	AB	941:DA	O3'	942:DG	P	1.77
1	AB	956:DT	O3'	957:DG	P	1.77
1	AB	988:DA	O3'	989:DG	P	1.77
1	AB	1006:DA	O3'	1007:DG	P	1.77
1	AB	1015:DT	O3'	1016:DG	P	1.77
1	AB	1025:DT	O3'	1026:DG	P	1.77
1	AB	1049:DT	O3'	1050:DG	P	1.77
1	AB	1130:DT	O3'	1131:DG	P	1.77
1	AB	1136:DT	O3'	1137:DG	P	1.77
1	AB	1187:DA	O3'	1188:DG	P	1.77
1	AB	1310:DT	O3'	1311:DG	P	1.77
1	AB	1314:DT	O3'	1315:DG	P	1.77
1	AB	1316:DT	O3'	1317:DG	P	1.77
1	AB	1417:DA	O3'	1418:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1518:DA	O3'	1519:DG	P	1.77
1	AB	1530:DA	O3'	1531:DG	P	1.77
1	AB	1534:DA	O3'	1535:DG	P	1.77
1	AB	1558:DT	O3'	1559:DG	P	1.77
1	AB	1647:DA	O3'	1648:DG	P	1.77
1	AB	1701:DA	O3'	1702:DG	P	1.77
1	AB	1796:DA	O3'	1797:DG	P	1.77
1	AB	1807:DA	O3'	1808:DG	P	1.77
1	AB	1818:DA	O3'	1819:DG	P	1.77
1	AB	1823:DT	O3'	1824:DG	P	1.77
1	AB	1828:DA	O3'	1829:DG	P	1.77
1	AB	1834:DA	O3'	1835:DG	P	1.77
1	AB	1847:DA	O3'	1848:DG	P	1.77
1	AB	1881:DA	O3'	1882:DG	P	1.77
1	AB	1901:DA	O3'	1902:DG	P	1.77
1	AB	1908:DA	O3'	1909:DG	P	1.77
1	AB	1935:DA	O3'	1936:DG	P	1.77
1	AB	1948:DA	O3'	1949:DG	P	1.77
1	AB	1961:DT	O3'	1962:DG	P	1.77
1	AB	2021:DT	O3'	2022:DG	P	1.77
1	AB	2030:DT	O3'	2031:DG	P	1.77
1	AB	2032:DA	O3'	2033:DG	P	1.77
1	AB	2076:DA	O3'	2077:DG	P	1.77
1	AB	2080:DA	O3'	2081:DG	P	1.77
1	AB	2117:DA	O3'	2118:DG	P	1.77
1	AB	2121:DT	O3'	2122:DG	P	1.77
1	AB	2143:DA	O3'	2144:DG	P	1.77
1	AB	2167:DA	O3'	2168:DG	P	1.77
1	AB	2183:DA	O3'	2184:DG	P	1.77
1	AB	2192:DT	O3'	2193:DG	P	1.77
1	AB	2336:DT	O3'	2337:DG	P	1.77
1	AB	2338:DA	O3'	2339:DG	P	1.77
1	AB	2359:DA	O3'	2360:DG	P	1.77
1	AB	2482:DA	O3'	2483:DG	P	1.77
1	AB	2485:DA	O3'	2486:DG	P	1.77
1	AB	2515:DA	O3'	2516:DG	P	1.77
1	AB	2587:DA	O3'	2588:DG	P	1.77
1	AB	2593:DA	O3'	2594:DG	P	1.77
1	AB	2602:DA	O3'	2603:DG	P	1.77
1	AB	2606:DA	O3'	2607:DG	P	1.77
1	AB	2614:DA	O3'	2615:DG	P	1.77
1	AB	2667:DA	O3'	2668:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2678:DT	O3'	2679:DG	P	1.77
1	AB	2686:DA	O3'	2687:DG	P	1.77
1	AB	2695:DA	O3'	2696:DG	P	1.77
1	AB	2725:DA	O3'	2726:DG	P	1.77
1	AB	2817:DT	O3'	2818:DG	P	1.77
1	AB	2850:DT	O3'	2851:DG	P	1.77
1	AB	2855:DA	O3'	2856:DG	P	1.77
1	AB	2909:DA	O3'	2910:DG	P	1.77
1	AB	2973:DT	O3'	2974:DG	P	1.77
1	AB	3021:DT	O3'	3022:DG	P	1.77
1	AB	3042:DA	O3'	3043:DG	P	1.77
1	AB	3122:DA	O3'	3123:DG	P	1.77
1	AB	3129:DT	O3'	3130:DG	P	1.77
1	AB	3162:DT	O3'	3163:DG	P	1.77
1	AB	3288:DT	O3'	3289:DG	P	1.77
1	AB	3306:DA	O3'	3307:DG	P	1.77
1	AB	3313:DA	O3'	3314:DG	P	1.77
1	AB	3324:DA	O3'	3325:DG	P	1.77
1	AB	3333:DA	O3'	3334:DG	P	1.77
1	AB	3380:DA	O3'	3381:DG	P	1.77
1	AB	3441:DT	O3'	3442:DG	P	1.77
1	AB	3455:DA	O3'	3456:DG	P	1.77
1	AB	3468:DT	O3'	3469:DG	P	1.77
1	AB	3471:DA	O3'	3472:DG	P	1.77
1	AB	3486:DT	O3'	3487:DG	P	1.77
1	AB	3561:DA	O3'	3562:DG	P	1.77
1	AB	3575:DA	O3'	3576:DG	P	1.77
1	AB	3627:DA	O3'	3628:DG	P	1.77
1	AB	3648:DT	O3'	3649:DG	P	1.77
1	AB	3690:DT	O3'	3691:DG	P	1.77
1	AB	3696:DT	O3'	3697:DG	P	1.77
1	AB	3719:DA	O3'	3720:DG	P	1.77
1	AB	3754:DA	O3'	3755:DG	P	1.77
1	AB	3836:DA	O3'	3837:DG	P	1.77
1	AB	3841:DA	O3'	3842:DG	P	1.77
1	AB	3846:DT	O3'	3847:DG	P	1.77
1	AB	3865:DA	O3'	3866:DG	P	1.77
1	AB	3899:DA	O3'	3900:DG	P	1.77
1	AB	3944:DA	O3'	3945:DG	P	1.77
1	AB	3992:DT	O3'	3993:DG	P	1.77
1	AB	3997:DA	O3'	3998:DG	P	1.77
1	AB	4008:DT	O3'	4009:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4024:DA	O3'	4025:DG	P	1.77
1	AB	4047:DA	O3'	4048:DG	P	1.77
1	AB	4056:DA	O3'	4057:DG	P	1.77
1	AB	4070:DA	O3'	4071:DG	P	1.77
1	AB	4082:DA	O3'	4083:DG	P	1.77
1	AB	4109:DA	O3'	4110:DG	P	1.77
1	AB	4113:DT	O3'	4114:DG	P	1.77
1	AB	4126:DT	O3'	4127:DG	P	1.77
1	AB	4130:DA	O3'	4131:DG	P	1.77
1	AB	4138:DA	O3'	4139:DG	P	1.77
1	AB	4225:DA	O3'	4226:DG	P	1.77
1	AB	4238:DA	O3'	4239:DG	P	1.77
1	AB	4292:DA	O3'	4293:DG	P	1.77
1	AB	4354:DA	O3'	4355:DG	P	1.77
1	AB	4419:DA	O3'	4420:DG	P	1.77
1	AB	4427:DT	O3'	4428:DG	P	1.77
1	AB	4453:DA	O3'	4454:DG	P	1.77
1	AB	4479:DA	O3'	4480:DG	P	1.77
1	AB	4507:DA	O3'	4508:DG	P	1.77
1	AB	4513:DA	O3'	4514:DG	P	1.77
1	AB	4522:DA	O3'	4523:DG	P	1.77
1	AB	4531:DA	O3'	4532:DG	P	1.77
1	AB	4534:DT	O3'	4535:DG	P	1.77
1	AB	4537:DT	O3'	4538:DG	P	1.77
1	AB	4549:DT	O3'	4550:DG	P	1.77
1	AB	4660:DA	O3'	4661:DG	P	1.77
1	AB	4662:DT	O3'	4663:DG	P	1.77
1	AB	4664:DA	O3'	4665:DG	P	1.77
1	AB	4684:DA	O3'	4685:DG	P	1.77
1	AB	4688:DA	O3'	4689:DG	P	1.77
1	AB	4700:DA	O3'	4701:DG	P	1.77
1	AB	4756:DA	O3'	4757:DG	P	1.77
1	AB	4783:DA	O3'	4784:DG	P	1.77
1	AB	4831:DA	O3'	4832:DG	P	1.77
1	AB	4853:DA	O3'	4854:DG	P	1.77
1	AB	4863:DT	O3'	4864:DG	P	1.77
1	AB	4927:DA	O3'	4928:DG	P	1.77
1	AB	4946:DA	O3'	4947:DG	P	1.77
1	AB	4992:DA	O3'	4993:DG	P	1.77
1	AB	5000:DA	O3'	5001:DG	P	1.77
1	AB	5041:DA	O3'	5042:DG	P	1.77
1	AB	5067:DA	O3'	5068:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	5082:DA	O3'	5083:DG	P	1.77
1	AB	5233:DT	O3'	5234:DG	P	1.77
1	AB	5237:DA	O3'	5238:DG	P	1.77
1	AB	5247:DA	O3'	5248:DG	P	1.77
1	AB	5300:DA	O3'	5301:DG	P	1.77
1	AB	5303:DT	O3'	5304:DG	P	1.77
1	AB	5387:DT	O3'	5388:DG	P	1.77
1	AB	5520:DA	O3'	5521:DG	P	1.77
1	AB	5547:DA	O3'	5548:DG	P	1.77
1	AB	5586:DT	O3'	5587:DG	P	1.77
1	AB	5693:DA	O3'	5694:DG	P	1.77
1	AB	5709:DA	O3'	5710:DG	P	1.77
1	AB	5717:DA	O3'	5718:DG	P	1.77
1	AB	5762:DA	O3'	5763:DG	P	1.77
1	AB	5781:DT	O3'	5782:DG	P	1.77
1	AB	5859:DA	O3'	5860:DG	P	1.77
1	AB	5883:DA	O3'	5884:DG	P	1.77
1	AB	5986:DA	O3'	5987:DG	P	1.77
1	AB	6000:DA	O3'	6001:DG	P	1.77
1	AB	6029:DA	O3'	6030:DG	P	1.77
1	AB	6056:DA	O3'	6057:DG	P	1.77
1	AB	6071:DT	O3'	6072:DG	P	1.77
1	AB	6086:DA	O3'	6087:DG	P	1.77
1	AB	6089:DA	O3'	6090:DG	P	1.77
1	AB	6098:DA	O3'	6099:DG	P	1.77
1	AB	6122:DT	O3'	6123:DG	P	1.77
1	AB	6125:DA	O3'	6126:DG	P	1.77
1	AB	6179:DA	O3'	6180:DG	P	1.77
1	AB	6238:DA	O3'	6239:DG	P	1.77
1	AB	6242:DA	O3'	6243:DG	P	1.77
1	AB	6249:DA	O3'	6250:DG	P	1.77
1	AB	6303:DT	O3'	6304:DG	P	1.77
1	AB	6305:DA	O3'	6306:DG	P	1.77
1	AB	6339:DA	O3'	6340:DG	P	1.77
1	AB	6399:DT	O3'	6400:DG	P	1.77
1	AB	6405:DA	O3'	6406:DG	P	1.77
1	AB	6446:DA	O3'	6447:DG	P	1.77
1	AB	6510:DA	O3'	6511:DG	P	1.77
1	AB	6567:DT	O3'	6568:DG	P	1.77
1	AB	6576:DA	O3'	6577:DG	P	1.77
1	AB	6594:DA	O3'	6595:DG	P	1.77
1	AB	6651:DA	O3'	6652:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6664:DT	O3'	6665:DG	P	1.77
1	AB	6671:DA	O3'	6672:DG	P	1.77
1	AB	6716:DT	O3'	6717:DG	P	1.77
1	AB	6727:DA	O3'	6728:DG	P	1.77
1	AB	6733:DA	O3'	6734:DG	P	1.77
1	AB	6751:DA	O3'	6752:DG	P	1.77
1	AB	6799:DA	O3'	6800:DG	P	1.77
1	AB	6812:DT	O3'	6813:DG	P	1.77
1	AB	6815:DA	O3'	6816:DG	P	1.77
1	AB	6820:DA	O3'	6821:DG	P	1.77
1	AB	6869:DA	O3'	6870:DG	P	1.77
1	AB	6872:DT	O3'	6873:DG	P	1.77
1	AB	6877:DA	O3'	6878:DG	P	1.77
1	AB	6932:DA	O3'	6933:DG	P	1.77
1	AB	6962:DA	O3'	6963:DG	P	1.77
1	AB	7037:DA	O3'	7038:DG	P	1.77
1	AB	7049:DT	O3'	7050:DG	P	1.77
1	AB	7064:DA	O3'	7065:DG	P	1.77
1	AB	7068:DT	O3'	7069:DG	P	1.77
1	AB	7080:DA	O3'	7081:DG	P	1.77
1	AB	7194:DA	O3'	7195:DG	P	1.77
1	AB	7213:DA	O3'	7214:DG	P	1.77
1	AB	7234:DA	O3'	7235:DG	P	1.77
1	AB	7240:DA	O3'	7241:DG	P	1.77
1	AD	10:DA	O3'	11:DG	P	1.77
1	AD	13:DA	O3'	14:DG	P	1.77
1	AD	21:DA	O3'	22:DG	P	1.77
1	AD	25:DA	O3'	26:DG	P	1.77
1	AD	27:DA	O3'	28:DG	P	1.77
1	B1	6:DA	O3'	7:DG	P	1.77
1	B1	26:DA	O3'	27:DG	P	1.77
1	B2	19:DA	O3'	20:DG	P	1.77
1	B3	5:DA	O3'	6:DG	P	1.77
1	B3	11:DA	O3'	12:DG	P	1.77
1	B4	15:DA	O3'	16:DG	P	1.77
1	B4	17:DA	O3'	18:DG	P	1.77
1	B5	32:DA	O3'	33:DG	P	1.77
1	B6	13:DA	O3'	14:DG	P	1.77
1	B7	12:DA	O3'	13:DG	P	1.77
1	B7	20:DA	O3'	21:DG	P	1.77
1	B8	14:DA	O3'	15:DG	P	1.77
1	B8	25:DA	O3'	26:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B9	49:DA	O3'	50:DG	P	1.77
1	BA	29:DT	O3'	30:DG	P	1.77
1	BA	35:DT	O3'	36:DG	P	1.77
1	BC	7:DA	O3'	8:DG	P	1.77
1	BC	21:DA	O3'	22:DG	P	1.77
1	BC	26:DA	O3'	27:DG	P	1.77
1	BC	38:DA	O3'	39:DG	P	1.77
1	C2	19:DA	O3'	20:DG	P	1.77
1	C3	17:DA	O3'	18:DG	P	1.77
1	C5	15:DA	O3'	16:DG	P	1.77
1	C5	31:DA	O3'	32:DG	P	1.77
1	C5	39:DA	O3'	40:DG	P	1.77
1	C6	24:DA	O3'	25:DG	P	1.77
1	C6	42:DA	O3'	43:DG	P	1.77
1	C8	3:DA	O3'	4:DG	P	1.77
1	C8	41:DA	O3'	42:DG	P	1.77
1	CA	12:DA	O3'	13:DG	P	1.77
1	CC	6:DA	O3'	7:DG	P	1.77
1	CD	2:DA	O3'	3:DG	P	1.77
1	CD	4:DA	O3'	5:DG	P	1.77
1	CD	18:DT	O3'	19:DG	P	1.77
1	D1	30:DA	O3'	31:DG	P	1.77
1	D2	10:DA	O3'	11:DG	P	1.77
1	D3	19:DA	O3'	20:DG	P	1.77
1	D3	25:DA	O3'	26:DG	P	1.77
1	D3	27:DA	O3'	28:DG	P	1.77
1	D3	31:DA	O3'	32:DG	P	1.77
1	D6	2:DA	O3'	3:DG	P	1.77
1	D6	32:DA	O3'	33:DG	P	1.77
1	D7	3:DA	O3'	4:DG	P	1.77
1	D8	32:DA	O3'	33:DG	P	1.77
1	D8	34:DA	O3'	35:DG	P	1.77
1	D9	16:DA	O3'	17:DG	P	1.77
1	D9	25:DA	O3'	26:DG	P	1.77
1	DA	8:DA	O3'	9:DG	P	1.77
1	DA	12:DA	O3'	13:DG	P	1.77
1	DA	21:DA	O3'	22:DG	P	1.77
1	DC	15:DT	O3'	16:DG	P	1.77
1	DC	19:DA	O3'	20:DG	P	1.77
1	DD	24:DA	O3'	25:DG	P	1.77
1	E1	10:DA	O3'	11:DG	P	1.77
1	E2	3:DA	O3'	4:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E2	27:DA	O3'	28:DG	P	1.77
1	E2	29:DA	O3'	30:DG	P	1.77
1	E2	33:DA	O3'	34:DG	P	1.77
1	E5	15:DA	O3'	16:DG	P	1.77
1	E6	3:DA	O3'	4:DG	P	1.77
1	E7	19:DA	O3'	20:DG	P	1.77
1	E8	36:DA	O3'	37:DG	P	1.77
1	E9	12:DA	O3'	13:DG	P	1.77
1	E9	42:DA	O3'	43:DG	P	1.77
1	EC	13:DT	O3'	14:DG	P	1.77
1	EC	20:DT	O3'	21:DG	P	1.77
1	EC	22:DA	O3'	23:DG	P	1.77
1	ED	20:DA	O3'	21:DG	P	1.77
1	ED	28:DA	O3'	29:DG	P	1.77
1	F1	3:DA	O3'	4:DG	P	1.77
1	F2	26:DA	O3'	27:DG	P	1.77
1	F3	12:DA	O3'	13:DG	P	1.77
1	F3	22:DA	O3'	23:DG	P	1.77
1	F5	2:DA	O3'	3:DG	P	1.77
1	F6	8:DA	O3'	9:DG	P	1.77
1	F7	23:DA	O3'	24:DG	P	1.77
1	F8	17:DA	O3'	18:DG	P	1.77
1	F9	18:DT	O3'	19:DG	P	1.77
1	FA	26:DA	O3'	27:DG	P	1.77
1	FA	30:DT	O3'	31:DG	P	1.77
1	FC	10:DA	O3'	11:DG	P	1.77
1	FC	13:DA	O3'	14:DG	P	1.77
1	FC	16:DA	O3'	17:DG	P	1.77
1	FD	25:DA	O3'	26:DG	P	1.77
1	FD	30:DA	O3'	31:DG	P	1.77
1	G2	9:DA	O3'	10:DG	P	1.77
1	G3	3:DT	O3'	4:DG	P	1.77
1	G3	27:DT	O3'	28:DG	P	1.77
1	G6	6:DA	O3'	7:DG	P	1.77
1	G6	8:DA	O3'	9:DG	P	1.77
1	G8	22:DA	O3'	23:DG	P	1.77
1	G9	7:DT	O3'	8:DG	P	1.77
1	G9	9:DA	O3'	10:DG	P	1.77
1	GA	7:DA	O3'	8:DG	P	1.77
1	GA	11:DT	O3'	12:DG	P	1.77
1	GA	18:DA	O3'	19:DG	P	1.77
1	GD	11:DA	O3'	12:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	GD	15:DA	O3'	16:DG	P	1.77
1	H1	11:DA	O3'	12:DG	P	1.77
1	H3	23:DA	O3'	24:DG	P	1.77
1	H3	25:DA	O3'	26:DG	P	1.77
1	H3	41:DA	O3'	42:DG	P	1.77
1	H5	32:DA	O3'	33:DG	P	1.77
1	H5	39:DA	O3'	40:DG	P	1.77
1	H6	4:DA	O3'	5:DG	P	1.77
1	H6	6:DA	O3'	7:DG	P	1.77
1	H7	12:DA	O3'	13:DG	P	1.77
1	H7	19:DA	O3'	20:DG	P	1.77
1	H8	14:DA	O3'	15:DG	P	1.77
1	H9	26:DA	O3'	27:DG	P	1.77
1	HA	10:DA	O3'	11:DG	P	1.77
1	HA	19:DA	O3'	20:DG	P	1.77
1	HA	23:DA	O3'	24:DG	P	1.77
1	HC	24:DA	O3'	25:DG	P	1.77
1	HD	21:DA	O3'	22:DG	P	1.77
1	I1	21:DA	O3'	22:DG	P	1.77
1	I2	14:DA	O3'	15:DG	P	1.77
1	I2	20:DA	O3'	21:DG	P	1.77
1	I2	44:DT	O3'	45:DG	P	1.77
1	I3	1:DA	O3'	2:DG	P	1.77
1	I3	36:DA	O3'	37:DG	P	1.77
1	I3	44:DA	O3'	45:DG	P	1.77
1	I5	10:DA	O3'	11:DG	P	1.77
1	I5	13:DA	O3'	14:DG	P	1.77
1	I5	29:DA	O3'	30:DG	P	1.77
1	I5	31:DA	O3'	32:DG	P	1.77
1	I7	23:DA	O3'	24:DG	P	1.77
1	I8	24:DA	O3'	25:DG	P	1.77
1	I9	9:DA	O3'	10:DG	P	1.77
1	I9	28:DA	O3'	29:DG	P	1.77
1	IA	5:DA	O3'	6:DG	P	1.77
1	ID	7:DT	O3'	8:DG	P	1.77
1	J3	8:DT	O3'	9:DG	P	1.77
1	J3	32:DA	O3'	33:DG	P	1.77
1	J5	3:DA	O3'	4:DG	P	1.77
1	J5	5:DA	O3'	6:DG	P	1.77
1	J5	13:DA	O3'	14:DG	P	1.77
1	J5	26:DA	O3'	27:DG	P	1.77
1	J6	39:DA	O3'	40:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J7	33:DA	O3'	34:DG	P	1.77
1	J8	1:DA	O3'	2:DG	P	1.77
1	J8	32:DT	O3'	33:DG	P	1.77
1	J9	9:DA	O3'	10:DG	P	1.77
1	JA	3:DA	O3'	4:DG	P	1.77
1	JA	5:DA	O3'	6:DG	P	1.77
1	JA	11:DT	O3'	12:DG	P	1.77
1	JD	9:DA	O3'	10:DG	P	1.77
1	K1	9:DT	O3'	10:DG	P	1.77
1	K1	25:DA	O3'	26:DG	P	1.77
1	K1	27:DA	O3'	28:DG	P	1.77
1	K2	8:DA	O3'	9:DG	P	1.77
1	K5	2:DA	O3'	3:DG	P	1.77
1	K5	24:DA	O3'	25:DG	P	1.77
1	K5	35:DA	O3'	36:DG	P	1.77
1	K5	38:DT	O3'	39:DG	P	1.77
1	K5	42:DA	O3'	43:DG	P	1.77
1	K6	12:DA	O3'	13:DG	P	1.77
1	K7	31:DA	O3'	32:DG	P	1.77
1	K8	3:DA	O3'	4:DG	P	1.77
1	K9	8:DA	O3'	9:DG	P	1.77
1	KA	10:DA	O3'	11:DG	P	1.77
1	KA	32:DA	O3'	33:DG	P	1.77
1	KC	10:DA	O3'	11:DG	P	1.77
1	KD	15:DA	O3'	16:DG	P	1.77
1	L1	32:DA	O3'	33:DG	P	1.77
1	L1	44:DA	O3'	45:DG	P	1.77
1	L1	52:DA	O3'	53:DG	P	1.77
1	L2	15:DT	O3'	16:DG	P	1.77
1	L2	59:DA	O3'	60:DG	P	1.77
1	L6	22:DT	O3'	23:DG	P	1.77
1	L7	9:DA	O3'	10:DG	P	1.77
1	L7	37:DA	O3'	38:DG	P	1.77
1	L8	10:DA	O3'	11:DG	P	1.77
1	L8	16:DA	O3'	17:DG	P	1.77
1	LC	15:DA	O3'	16:DG	P	1.77
1	LD	5:DT	O3'	6:DG	P	1.77
1	M2	15:DA	O3'	16:DG	P	1.77
1	M3	12:DA	O3'	13:DG	P	1.77
1	M3	33:DA	O3'	34:DG	P	1.77
1	M5	5:DA	O3'	6:DG	P	1.77
1	M5	22:DA	O3'	23:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	M5	27:DA	O3'	28:DG	P	1.77
1	M6	12:DA	O3'	13:DG	P	1.77
1	M7	15:DA	O3'	16:DG	P	1.77
1	M9	4:DA	O3'	5:DG	P	1.77
1	MA	8:DT	O3'	9:DG	P	1.77
1	MA	19:DA	O3'	20:DG	P	1.77
1	MA	29:DA	O3'	30:DG	P	1.77
1	MA	42:DA	O3'	43:DG	P	1.77
1	MD	54:DA	O3'	55:DG	P	1.77
1	N2	2:DA	O3'	3:DG	P	1.77
1	N2	6:DA	O3'	7:DG	P	1.77
1	N2	21:DA	O3'	22:DG	P	1.77
1	N3	1:DA	O3'	2:DG	P	1.77
1	N3	3:DA	O3'	4:DG	P	1.77
1	N3	11:DA	O3'	12:DG	P	1.77
1	N5	6:DA	O3'	7:DG	P	1.77
1	N6	20:DA	O3'	21:DG	P	1.77
1	N6	48:DA	O3'	49:DG	P	1.77
1	N7	2:DA	O3'	3:DG	P	1.77
1	N7	4:DA	O3'	5:DG	P	1.77
1	N7	21:DA	O3'	22:DG	P	1.77
1	N8	1:DA	O3'	2:DG	P	1.77
1	N8	18:DT	O3'	19:DG	P	1.77
1	N9	30:DA	O3'	31:DG	P	1.77
1	N9	40:DT	O3'	41:DG	P	1.77
1	N9	42:DT	O3'	43:DG	P	1.77
1	N9	44:DA	O3'	45:DG	P	1.77
1	NA	12:DA	O3'	13:DG	P	1.77
1	NC	5:DA	O3'	6:DG	P	1.77
1	NC	7:DA	O3'	8:DG	P	1.77
1	NC	9:DA	O3'	10:DG	P	1.77
1	ND	2:DA	O3'	3:DG	P	1.77
1	ND	9:DA	O3'	10:DG	P	1.77
1	ND	19:DA	O3'	20:DG	P	1.77
1	O2	27:DA	O3'	28:DG	P	1.77
1	O2	41:DA	O3'	42:DG	P	1.77
1	O2	44:DA	O3'	45:DG	P	1.77
1	O3	9:DA	O3'	10:DG	P	1.77
1	O5	31:DA	O3'	32:DG	P	1.77
1	O6	4:DA	O3'	5:DG	P	1.77
1	O7	3:DA	O3'	4:DG	P	1.77
1	O7	35:DA	O3'	36:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O7	41:DA	O3'	42:DG	P	1.77
1	O7	46:DA	O3'	47:DG	P	1.77
1	O8	13:DA	O3'	14:DG	P	1.77
1	O8	35:DA	O3'	36:DG	P	1.77
1	OA	1:DA	O3'	2:DG	P	1.77
1	OD	10:DA	O3'	11:DG	P	1.77
1	P2	8:DA	O3'	9:DG	P	1.77
1	P3	36:DA	O3'	37:DG	P	1.77
1	P5	8:DA	O3'	9:DG	P	1.77
1	P5	14:DA	O3'	15:DG	P	1.77
1	P6	8:DA	O3'	9:DG	P	1.77
1	P7	11:DA	O3'	12:DG	P	1.77
1	P9	18:DT	O3'	19:DG	P	1.77
1	PA	2:DA	O3'	3:DG	P	1.77
1	PA	6:DA	O3'	7:DG	P	1.77
1	PC	25:DA	O3'	26:DG	P	1.77
1	PD	4:DA	O3'	5:DG	P	1.77
1	PD	16:DA	O3'	17:DG	P	1.77
1	Q8	23:DT	O3'	24:DG	P	1.77
1	Q8	25:DA	O3'	26:DG	P	1.77
1	Q9	1:DA	O3'	2:DG	P	1.77
1	QA	8:DA	O3'	9:DG	P	1.77
1	QA	19:DA	O3'	20:DG	P	1.77
1	QC	9:DT	O3'	10:DG	P	1.77
1	QC	20:DA	O3'	21:DG	P	1.77
1	R2	3:DA	O3'	4:DG	P	1.77
1	R2	10:DA	O3'	11:DG	P	1.77
1	R2	18:DA	O3'	19:DG	P	1.77
1	R7	1:DA	O3'	2:DG	P	1.77
1	R7	6:DA	O3'	7:DG	P	1.77
1	R7	24:DA	O3'	25:DG	P	1.77
1	R8	39:DA	O3'	40:DG	P	1.77
1	R9	22:DA	O3'	23:DG	P	1.77
1	RA	8:DA	O3'	9:DG	P	1.77
1	RC	9:DA	O3'	10:DG	P	1.77
1	S2	3:DA	O3'	4:DG	P	1.77
1	S2	24:DA	O3'	25:DG	P	1.77
1	S3	23:DA	O3'	24:DG	P	1.77
1	S3	25:DA	O3'	26:DG	P	1.77
1	S5	3:DA	O3'	4:DG	P	1.77
1	S5	11:DA	O3'	12:DG	P	1.77
1	S8	23:DA	O3'	24:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	S8	28:DA	O3'	29:DG	P	1.77
1	S9	2:DA	O3'	3:DG	P	1.77
1	S9	4:DA	O3'	5:DG	P	1.77
1	S9	19:DA	O3'	20:DG	P	1.77
1	T2	9:DA	O3'	10:DG	P	1.77
1	T2	12:DA	O3'	13:DG	P	1.77
1	T3	30:DA	O3'	31:DG	P	1.77
1	T3	34:DT	O3'	35:DG	P	1.77
1	T7	33:DA	O3'	34:DG	P	1.77
1	T7	41:DA	O3'	42:DG	P	1.77
1	T7	53:DA	O3'	54:DG	P	1.77
1	T8	13:DA	O3'	14:DG	P	1.77
1	T8	27:DA	O3'	28:DG	P	1.77
1	TA	8:DA	O3'	9:DG	P	1.77
1	TA	32:DA	O3'	33:DG	P	1.77
1	TC	29:DA	O3'	30:DG	P	1.77
1	TD	20:DA	O3'	21:DG	P	1.77
1	U2	27:DA	O3'	28:DG	P	1.77
1	U3	18:DA	O3'	19:DG	P	1.77
1	U5	16:DA	O3'	17:DG	P	1.77
1	U5	20:DT	O3'	21:DG	P	1.77
1	U5	37:DA	O3'	38:DG	P	1.77
1	U7	10:DA	O3'	11:DG	P	1.77
1	U8	4:DA	O3'	5:DG	P	1.77
1	UC	26:DA	O3'	27:DG	P	1.77
1	UD	8:DA	O3'	9:DG	P	1.77
1	V2	14:DA	O3'	15:DG	P	1.77
1	V5	20:DA	O3'	21:DG	P	1.77
1	V5	36:DA	O3'	37:DG	P	1.77
1	V8	10:DA	O3'	11:DG	P	1.77
1	V8	12:DA	O3'	13:DG	P	1.77
1	V8	23:DA	O3'	24:DG	P	1.77
1	V9	23:DA	O3'	24:DG	P	1.77
1	VA	6:DA	O3'	7:DG	P	1.77
1	VC	11:DA	O3'	12:DG	P	1.77
1	VC	23:DA	O3'	24:DG	P	1.77
1	VC	28:DA	O3'	29:DG	P	1.77
1	VC	34:DA	O3'	35:DG	P	1.77
1	VC	38:DA	O3'	39:DG	P	1.77
1	VD	6:DA	O3'	7:DG	P	1.77
1	W3	40:DA	O3'	41:DG	P	1.77
1	W5	12:DT	O3'	13:DG	P	1.77

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	W5	17:DA	O3'	18:DG	P	1.77
1	W8	17:DA	O3'	18:DG	P	1.77
1	W9	6:DA	O3'	7:DG	P	1.77
1	W9	13:DA	O3'	14:DG	P	1.77
1	W9	15:DA	O3'	16:DG	P	1.77
1	WD	11:DA	O3'	12:DG	P	1.77
1	X9	19:DA	O3'	20:DG	P	1.77
1	A1	3:DA	O3'	4:DG	P	1.76
1	A1	14:DA	O3'	15:DG	P	1.76
1	A2	22:DT	O3'	23:DG	P	1.76
1	A3	19:DA	O3'	20:DG	P	1.76
1	A3	22:DT	O3'	23:DG	P	1.76
1	A4	22:DT	O3'	23:DG	P	1.76
1	A5	2:DT	O3'	3:DG	P	1.76
1	A5	40:DT	O3'	41:DG	P	1.76
1	A6	8:DA	O3'	9:DG	P	1.76
1	A6	20:DT	O3'	21:DG	P	1.76
1	A6	22:DA	O3'	23:DG	P	1.76
1	A6	27:DA	O3'	28:DG	P	1.76
1	A7	10:DT	O3'	11:DG	P	1.76
1	A8	9:DA	O3'	10:DG	P	1.76
1	A8	15:DA	O3'	16:DG	P	1.76
1	A8	23:DT	O3'	24:DG	P	1.76
1	A9	5:DT	O3'	6:DG	P	1.76
1	A9	7:DA	O3'	8:DG	P	1.76
1	A9	9:DA	O3'	10:DG	P	1.76
1	A9	17:DA	O3'	18:DG	P	1.76
1	AB	13:DT	O3'	14:DG	P	1.76
1	AB	17:DT	O3'	18:DG	P	1.76
1	AB	24:DT	O3'	25:DG	P	1.76
1	AB	28:DT	O3'	29:DG	P	1.76
1	AB	31:DT	O3'	32:DG	P	1.76
1	AB	37:DT	O3'	38:DG	P	1.76
1	AB	60:DA	O3'	61:DG	P	1.76
1	AB	63:DT	O3'	64:DG	P	1.76
1	AB	69:DA	O3'	70:DG	P	1.76
1	AB	85:DA	O3'	86:DG	P	1.76
1	AB	89:DA	O3'	90:DG	P	1.76
1	AB	92:DT	O3'	93:DG	P	1.76
1	AB	112:DA	O3'	113:DG	P	1.76
1	AB	122:DT	O3'	123:DG	P	1.76
1	AB	136:DT	O3'	137:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	139:DA	O3'	140:DG	P	1.76
1	AB	151:DT	O3'	152:DG	P	1.76
1	AB	182:DT	O3'	183:DG	P	1.76
1	AB	206:DT	O3'	207:DG	P	1.76
1	AB	212:DT	O3'	213:DG	P	1.76
1	AB	215:DT	O3'	216:DG	P	1.76
1	AB	264:DT	O3'	265:DG	P	1.76
1	AB	269:DA	O3'	270:DG	P	1.76
1	AB	284:DA	O3'	285:DG	P	1.76
1	AB	302:DT	O3'	303:DG	P	1.76
1	AB	304:DA	O3'	305:DG	P	1.76
1	AB	309:DT	O3'	310:DG	P	1.76
1	AB	313:DT	O3'	314:DG	P	1.76
1	AB	315:DT	O3'	316:DG	P	1.76
1	AB	320:DT	O3'	321:DG	P	1.76
1	AB	326:DA	O3'	327:DG	P	1.76
1	AB	332:DT	O3'	333:DG	P	1.76
1	AB	339:DT	O3'	340:DG	P	1.76
1	AB	344:DT	O3'	345:DG	P	1.76
1	AB	347:DT	O3'	348:DG	P	1.76
1	AB	360:DT	O3'	361:DG	P	1.76
1	AB	372:DT	O3'	373:DG	P	1.76
1	AB	383:DT	O3'	384:DG	P	1.76
1	AB	389:DT	O3'	390:DG	P	1.76
1	AB	398:DT	O3'	399:DG	P	1.76
1	AB	410:DT	O3'	411:DG	P	1.76
1	AB	413:DT	O3'	414:DG	P	1.76
1	AB	419:DT	O3'	420:DG	P	1.76
1	AB	434:DT	O3'	435:DG	P	1.76
1	AB	440:DT	O3'	441:DG	P	1.76
1	AB	449:DT	O3'	450:DG	P	1.76
1	AB	473:DT	O3'	474:DG	P	1.76
1	AB	482:DT	O3'	483:DG	P	1.76
1	AB	539:DT	O3'	540:DG	P	1.76
1	AB	545:DT	O3'	546:DG	P	1.76
1	AB	578:DT	O3'	579:DG	P	1.76
1	AB	607:DT	O3'	608:DG	P	1.76
1	AB	650:DT	O3'	651:DG	P	1.76
1	AB	680:DT	O3'	681:DG	P	1.76
1	AB	703:DA	O3'	704:DG	P	1.76
1	AB	713:DT	O3'	714:DG	P	1.76
1	AB	730:DT	O3'	731:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	761:DA	O3'	762:DG	P	1.76
1	AB	765:DT	O3'	766:DG	P	1.76
1	AB	779:DT	O3'	780:DG	P	1.76
1	AB	788:DT	O3'	789:DG	P	1.76
1	AB	800:DT	O3'	801:DG	P	1.76
1	AB	806:DT	O3'	807:DG	P	1.76
1	AB	827:DT	O3'	828:DG	P	1.76
1	AB	832:DT	O3'	833:DG	P	1.76
1	AB	845:DT	O3'	846:DG	P	1.76
1	AB	851:DT	O3'	852:DG	P	1.76
1	AB	854:DT	O3'	855:DG	P	1.76
1	AB	866:DT	O3'	867:DG	P	1.76
1	AB	869:DT	O3'	870:DG	P	1.76
1	AB	872:DT	O3'	873:DG	P	1.76
1	AB	878:DT	O3'	879:DG	P	1.76
1	AB	881:DT	O3'	882:DG	P	1.76
1	AB	890:DT	O3'	891:DG	P	1.76
1	AB	892:DA	O3'	893:DG	P	1.76
1	AB	896:DT	O3'	897:DG	P	1.76
1	AB	899:DT	O3'	900:DG	P	1.76
1	AB	905:DT	O3'	906:DG	P	1.76
1	AB	907:DA	O3'	908:DG	P	1.76
1	AB	911:DT	O3'	912:DG	P	1.76
1	AB	920:DT	O3'	921:DG	P	1.76
1	AB	922:DA	O3'	923:DG	P	1.76
1	AB	926:DT	O3'	927:DG	P	1.76
1	AB	935:DT	O3'	936:DG	P	1.76
1	AB	953:DT	O3'	954:DG	P	1.76
1	AB	962:DT	O3'	963:DG	P	1.76
1	AB	971:DT	O3'	972:DG	P	1.76
1	AB	977:DT	O3'	978:DG	P	1.76
1	AB	983:DT	O3'	984:DG	P	1.76
1	AB	991:DT	O3'	992:DG	P	1.76
1	AB	1031:DT	O3'	1032:DG	P	1.76
1	AB	1058:DA	O3'	1059:DG	P	1.76
1	AB	1067:DT	O3'	1068:DG	P	1.76
1	AB	1082:DT	O3'	1083:DG	P	1.76
1	AB	1091:DT	O3'	1092:DG	P	1.76
1	AB	1094:DT	O3'	1095:DG	P	1.76
1	AB	1103:DT	O3'	1104:DG	P	1.76
1	AB	1112:DT	O3'	1113:DG	P	1.76
1	AB	1115:DT	O3'	1116:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1142:DT	O3'	1143:DG	P	1.76
1	AB	1145:DT	O3'	1146:DG	P	1.76
1	AB	1151:DT	O3'	1152:DG	P	1.76
1	AB	1154:DT	O3'	1155:DG	P	1.76
1	AB	1160:DT	O3'	1161:DG	P	1.76
1	AB	1163:DT	O3'	1164:DG	P	1.76
1	AB	1180:DT	O3'	1181:DG	P	1.76
1	AB	1193:DT	O3'	1194:DG	P	1.76
1	AB	1199:DT	O3'	1200:DG	P	1.76
1	AB	1216:DT	O3'	1217:DG	P	1.76
1	AB	1259:DT	O3'	1260:DG	P	1.76
1	AB	1263:DT	O3'	1264:DG	P	1.76
1	AB	1274:DT	O3'	1275:DG	P	1.76
1	AB	1280:DT	O3'	1281:DG	P	1.76
1	AB	1286:DT	O3'	1287:DG	P	1.76
1	AB	1298:DT	O3'	1299:DG	P	1.76
1	AB	1337:DT	O3'	1338:DG	P	1.76
1	AB	1340:DT	O3'	1341:DG	P	1.76
1	AB	1346:DT	O3'	1347:DG	P	1.76
1	AB	1361:DT	O3'	1362:DG	P	1.76
1	AB	1364:DT	O3'	1365:DG	P	1.76
1	AB	1375:DT	O3'	1376:DG	P	1.76
1	AB	1379:DT	O3'	1380:DG	P	1.76
1	AB	1394:DT	O3'	1395:DG	P	1.76
1	AB	1405:DT	O3'	1406:DG	P	1.76
1	AB	1414:DA	O3'	1415:DG	P	1.76
1	AB	1428:DT	O3'	1429:DG	P	1.76
1	AB	1432:DA	O3'	1433:DG	P	1.76
1	AB	1440:DT	O3'	1441:DG	P	1.76
1	AB	1458:DT	O3'	1459:DG	P	1.76
1	AB	1479:DT	O3'	1480:DG	P	1.76
1	AB	1488:DT	O3'	1489:DG	P	1.76
1	AB	1500:DT	O3'	1501:DG	P	1.76
1	AB	1540:DT	O3'	1541:DG	P	1.76
1	AB	1551:DT	O3'	1552:DG	P	1.76
1	AB	1570:DT	O3'	1571:DG	P	1.76
1	AB	1588:DT	O3'	1589:DG	P	1.76
1	AB	1590:DT	O3'	1591:DG	P	1.76
1	AB	1603:DT	O3'	1604:DG	P	1.76
1	AB	1610:DA	O3'	1611:DG	P	1.76
1	AB	1627:DT	O3'	1628:DG	P	1.76
1	AB	1633:DT	O3'	1634:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1638:DA	O3'	1639:DG	P	1.76
1	AB	1642:DT	O3'	1643:DG	P	1.76
1	AB	1666:DT	O3'	1667:DG	P	1.76
1	AB	1676:DT	O3'	1677:DG	P	1.76
1	AB	1684:DT	O3'	1685:DG	P	1.76
1	AB	1696:DT	O3'	1697:DG	P	1.76
1	AB	1705:DT	O3'	1706:DG	P	1.76
1	AB	1720:DT	O3'	1721:DG	P	1.76
1	AB	1749:DT	O3'	1750:DG	P	1.76
1	AB	1754:DT	O3'	1755:DG	P	1.76
1	AB	1768:DT	O3'	1769:DG	P	1.76
1	AB	1772:DT	O3'	1773:DG	P	1.76
1	AB	1781:DT	O3'	1782:DG	P	1.76
1	AB	1787:DT	O3'	1788:DG	P	1.76
1	AB	1802:DT	O3'	1803:DG	P	1.76
1	AB	1844:DT	O3'	1845:DG	P	1.76
1	AB	1850:DT	O3'	1851:DG	P	1.76
1	AB	1854:DT	O3'	1855:DG	P	1.76
1	AB	1862:DA	O3'	1863:DG	P	1.76
1	AB	1874:DT	O3'	1875:DG	P	1.76
1	AB	1966:DT	O3'	1967:DG	P	1.76
1	AB	1970:DT	O3'	1971:DG	P	1.76
1	AB	1976:DT	O3'	1977:DG	P	1.76
1	AB	1988:DT	O3'	1989:DG	P	1.76
1	AB	2000:DT	O3'	2001:DG	P	1.76
1	AB	2017:DT	O3'	2018:DG	P	1.76
1	AB	2034:DT	O3'	2035:DG	P	1.76
1	AB	2043:DT	O3'	2044:DG	P	1.76
1	AB	2061:DT	O3'	2062:DG	P	1.76
1	AB	2066:DT	O3'	2067:DG	P	1.76
1	AB	2090:DT	O3'	2091:DG	P	1.76
1	AB	2094:DT	O3'	2095:DG	P	1.76
1	AB	2105:DT	O3'	2106:DG	P	1.76
1	AB	2138:DT	O3'	2139:DG	P	1.76
1	AB	2156:DT	O3'	2157:DG	P	1.76
1	AB	2159:DT	O3'	2160:DG	P	1.76
1	AB	2177:DT	O3'	2178:DG	P	1.76
1	AB	2186:DT	O3'	2187:DG	P	1.76
1	AB	2195:DT	O3'	2196:DG	P	1.76
1	AB	2202:DT	O3'	2203:DG	P	1.76
1	AB	2212:DT	O3'	2213:DG	P	1.76
1	AB	2217:DA	O3'	2218:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2234:DT	O3'	2235:DG	P	1.76
1	AB	2261:DT	O3'	2262:DG	P	1.76
1	AB	2278:DT	O3'	2279:DG	P	1.76
1	AB	2291:DT	O3'	2292:DG	P	1.76
1	AB	2294:DT	O3'	2295:DG	P	1.76
1	AB	2300:DT	O3'	2301:DG	P	1.76
1	AB	2309:DT	O3'	2310:DG	P	1.76
1	AB	2333:DT	O3'	2334:DG	P	1.76
1	AB	2343:DT	O3'	2344:DG	P	1.76
1	AB	2354:DT	O3'	2355:DG	P	1.76
1	AB	2365:DT	O3'	2366:DG	P	1.76
1	AB	2378:DT	O3'	2379:DG	P	1.76
1	AB	2389:DA	O3'	2390:DG	P	1.76
1	AB	2400:DA	O3'	2401:DG	P	1.76
1	AB	2408:DT	O3'	2409:DG	P	1.76
1	AB	2417:DT	O3'	2418:DG	P	1.76
1	AB	2477:DA	O3'	2478:DG	P	1.76
1	AB	2488:DT	O3'	2489:DG	P	1.76
1	AB	2509:DT	O3'	2510:DG	P	1.76
1	AB	2532:DT	O3'	2533:DG	P	1.76
1	AB	2537:DT	O3'	2538:DG	P	1.76
1	AB	2543:DT	O3'	2544:DG	P	1.76
1	AB	2549:DT	O3'	2550:DG	P	1.76
1	AB	2555:DA	O3'	2556:DG	P	1.76
1	AB	2568:DA	O3'	2569:DG	P	1.76
1	AB	2621:DT	O3'	2622:DG	P	1.76
1	AB	2627:DT	O3'	2628:DG	P	1.76
1	AB	2642:DT	O3'	2643:DG	P	1.76
1	AB	2653:DA	O3'	2654:DG	P	1.76
1	AB	2712:DA	O3'	2713:DG	P	1.76
1	AB	2728:DA	O3'	2729:DG	P	1.76
1	AB	2732:DA	O3'	2733:DG	P	1.76
1	AB	2753:DT	O3'	2754:DG	P	1.76
1	AB	2760:DT	O3'	2761:DG	P	1.76
1	AB	2765:DT	O3'	2766:DG	P	1.76
1	AB	2780:DA	O3'	2781:DG	P	1.76
1	AB	2798:DT	O3'	2799:DG	P	1.76
1	AB	2805:DT	O3'	2806:DG	P	1.76
1	AB	2825:DT	O3'	2826:DG	P	1.76
1	AB	2828:DT	O3'	2829:DG	P	1.76
1	AB	2832:DT	O3'	2833:DG	P	1.76
1	AB	2862:DT	O3'	2863:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2867:DT	O3'	2868:DG	P	1.76
1	AB	2882:DT	O3'	2883:DG	P	1.76
1	AB	2892:DT	O3'	2893:DG	P	1.76
1	AB	2899:DT	O3'	2900:DG	P	1.76
1	AB	2916:DA	O3'	2917:DG	P	1.76
1	AB	2931:DT	O3'	2932:DG	P	1.76
1	AB	2943:DT	O3'	2944:DG	P	1.76
1	AB	2949:DA	O3'	2950:DG	P	1.76
1	AB	2955:DT	O3'	2956:DG	P	1.76
1	AB	2961:DT	O3'	2962:DG	P	1.76
1	AB	2985:DT	O3'	2986:DG	P	1.76
1	AB	3012:DT	O3'	3013:DG	P	1.76
1	AB	3033:DT	O3'	3034:DG	P	1.76
1	AB	3038:DT	O3'	3039:DG	P	1.76
1	AB	3065:DA	O3'	3066:DG	P	1.76
1	AB	3068:DA	O3'	3069:DG	P	1.76
1	AB	3086:DA	O3'	3087:DG	P	1.76
1	AB	3096:DT	O3'	3097:DG	P	1.76
1	AB	3099:DT	O3'	3100:DG	P	1.76
1	AB	3104:DT	O3'	3105:DG	P	1.76
1	AB	3114:DT	O3'	3115:DG	P	1.76
1	AB	3132:DT	O3'	3133:DG	P	1.76
1	AB	3150:DT	O3'	3151:DG	P	1.76
1	AB	3153:DT	O3'	3154:DG	P	1.76
1	AB	3174:DT	O3'	3175:DG	P	1.76
1	AB	3180:DT	O3'	3181:DG	P	1.76
1	AB	3218:DA	O3'	3219:DG	P	1.76
1	AB	3231:DA	O3'	3232:DG	P	1.76
1	AB	3234:DT	O3'	3235:DG	P	1.76
1	AB	3242:DT	O3'	3243:DG	P	1.76
1	AB	3246:DT	O3'	3247:DG	P	1.76
1	AB	3251:DA	O3'	3252:DG	P	1.76
1	AB	3276:DT	O3'	3277:DG	P	1.76
1	AB	3309:DT	O3'	3310:DG	P	1.76
1	AB	3315:DT	O3'	3316:DG	P	1.76
1	AB	3360:DT	O3'	3361:DG	P	1.76
1	AB	3363:DT	O3'	3364:DG	P	1.76
1	AB	3368:DT	O3'	3369:DG	P	1.76
1	AB	3375:DT	O3'	3376:DG	P	1.76
1	AB	3386:DT	O3'	3387:DG	P	1.76
1	AB	3390:DT	O3'	3391:DG	P	1.76
1	AB	3392:DA	O3'	3393:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	3398:DT	O3'	3399:DG	P	1.76
1	AB	3405:DT	O3'	3406:DG	P	1.76
1	AB	3407:DA	O3'	3408:DG	P	1.76
1	AB	3413:DA	O3'	3414:DG	P	1.76
1	AB	3417:DA	O3'	3418:DG	P	1.76
1	AB	3420:DT	O3'	3421:DG	P	1.76
1	AB	3423:DT	O3'	3424:DG	P	1.76
1	AB	3429:DA	O3'	3430:DG	P	1.76
1	AB	3444:DT	O3'	3445:DG	P	1.76
1	AB	3447:DT	O3'	3448:DG	P	1.76
1	AB	3459:DT	O3'	3460:DG	P	1.76
1	AB	3465:DT	O3'	3466:DG	P	1.76
1	AB	3477:DT	O3'	3478:DG	P	1.76
1	AB	3501:DT	O3'	3502:DG	P	1.76
1	AB	3513:DT	O3'	3514:DG	P	1.76
1	AB	3516:DT	O3'	3517:DG	P	1.76
1	AB	3519:DT	O3'	3520:DG	P	1.76
1	AB	3540:DT	O3'	3541:DG	P	1.76
1	AB	3546:DT	O3'	3547:DG	P	1.76
1	AB	3552:DA	O3'	3553:DG	P	1.76
1	AB	3583:DA	O3'	3584:DG	P	1.76
1	AB	3599:DT	O3'	3600:DG	P	1.76
1	AB	3603:DT	O3'	3604:DG	P	1.76
1	AB	3605:DT	O3'	3606:DG	P	1.76
1	AB	3632:DA	O3'	3633:DG	P	1.76
1	AB	3635:DA	O3'	3636:DG	P	1.76
1	AB	3651:DT	O3'	3652:DG	P	1.76
1	AB	3656:DA	O3'	3657:DG	P	1.76
1	AB	3660:DT	O3'	3661:DG	P	1.76
1	AB	3675:DT	O3'	3676:DG	P	1.76
1	AB	3681:DT	O3'	3682:DG	P	1.76
1	AB	3683:DT	O3'	3684:DG	P	1.76
1	AB	3687:DT	O3'	3688:DG	P	1.76
1	AB	3702:DT	O3'	3703:DG	P	1.76
1	AB	3726:DT	O3'	3727:DG	P	1.76
1	AB	3728:DA	O3'	3729:DG	P	1.76
1	AB	3738:DT	O3'	3739:DG	P	1.76
1	AB	3741:DA	O3'	3742:DG	P	1.76
1	AB	3752:DT	O3'	3753:DG	P	1.76
1	AB	3765:DT	O3'	3766:DG	P	1.76
1	AB	3768:DT	O3'	3769:DG	P	1.76
1	AB	3773:DT	O3'	3774:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	3777:DT	O3'	3778:DG	P	1.76
1	AB	3789:DT	O3'	3790:DG	P	1.76
1	AB	3794:DT	O3'	3795:DG	P	1.76
1	AB	3805:DA	O3'	3806:DG	P	1.76
1	AB	3809:DA	O3'	3810:DG	P	1.76
1	AB	3817:DA	O3'	3818:DG	P	1.76
1	AB	3821:DT	O3'	3822:DG	P	1.76
1	AB	3823:DA	O3'	3824:DG	P	1.76
1	AB	3843:DT	O3'	3844:DG	P	1.76
1	AB	3862:DA	O3'	3863:DG	P	1.76
1	AB	3870:DT	O3'	3871:DG	P	1.76
1	AB	3887:DT	O3'	3888:DG	P	1.76
1	AB	3891:DT	O3'	3892:DG	P	1.76
1	AB	3894:DT	O3'	3895:DG	P	1.76
1	AB	3915:DT	O3'	3916:DG	P	1.76
1	AB	3924:DT	O3'	3925:DG	P	1.76
1	AB	3951:DT	O3'	3952:DG	P	1.76
1	AB	3965:DT	O3'	3966:DG	P	1.76
1	AB	4019:DA	O3'	4020:DG	P	1.76
1	AB	4037:DT	O3'	4038:DG	P	1.76
1	AB	4067:DT	O3'	4068:DG	P	1.76
1	AB	4093:DT	O3'	4094:DG	P	1.76
1	AB	4095:DT	O3'	4096:DG	P	1.76
1	AB	4098:DT	O3'	4099:DG	P	1.76
1	AB	4201:DA	O3'	4202:DG	P	1.76
1	AB	4240:DT	O3'	4241:DG	P	1.76
1	AB	4270:DT	O3'	4271:DG	P	1.76
1	AB	4275:DT	O3'	4276:DG	P	1.76
1	AB	4279:DT	O3'	4280:DG	P	1.76
1	AB	4282:DT	O3'	4283:DG	P	1.76
1	AB	4294:DT	O3'	4295:DG	P	1.76
1	AB	4306:DT	O3'	4307:DG	P	1.76
1	AB	4310:DA	O3'	4311:DG	P	1.76
1	AB	4328:DT	O3'	4329:DG	P	1.76
1	AB	4334:DT	O3'	4335:DG	P	1.76
1	AB	4337:DA	O3'	4338:DG	P	1.76
1	AB	4356:DT	O3'	4357:DG	P	1.76
1	AB	4364:DT	O3'	4365:DG	P	1.76
1	AB	4374:DT	O3'	4375:DG	P	1.76
1	AB	4410:DT	O3'	4411:DG	P	1.76
1	AB	4465:DT	O3'	4466:DG	P	1.76
1	AB	4468:DT	O3'	4469:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4492:DT	O3'	4493:DG	P	1.76
1	AB	4495:DT	O3'	4496:DG	P	1.76
1	AB	4519:DT	O3'	4520:DG	P	1.76
1	AB	4552:DT	O3'	4553:DG	P	1.76
1	AB	4557:DA	O3'	4558:DG	P	1.76
1	AB	4570:DT	O3'	4571:DG	P	1.76
1	AB	4606:DT	O3'	4607:DG	P	1.76
1	AB	4621:DT	O3'	4622:DG	P	1.76
1	AB	4624:DA	O3'	4625:DG	P	1.76
1	AB	4627:DT	O3'	4628:DG	P	1.76
1	AB	4636:DA	O3'	4637:DG	P	1.76
1	AB	4648:DT	O3'	4649:DG	P	1.76
1	AB	4653:DA	O3'	4654:DG	P	1.76
1	AB	4680:DT	O3'	4681:DG	P	1.76
1	AB	4682:DT	O3'	4683:DG	P	1.76
1	AB	4709:DA	O3'	4710:DG	P	1.76
1	AB	4724:DT	O3'	4725:DG	P	1.76
1	AB	4739:DT	O3'	4740:DG	P	1.76
1	AB	4742:DT	O3'	4743:DG	P	1.76
1	AB	4744:DT	O3'	4745:DG	P	1.76
1	AB	4746:DT	O3'	4747:DG	P	1.76
1	AB	4752:DT	O3'	4753:DG	P	1.76
1	AB	4776:DA	O3'	4777:DG	P	1.76
1	AB	4788:DT	O3'	4789:DG	P	1.76
1	AB	4794:DT	O3'	4795:DG	P	1.76
1	AB	4833:DA	O3'	4834:DG	P	1.76
1	AB	4841:DT	O3'	4842:DG	P	1.76
1	AB	4844:DA	O3'	4845:DG	P	1.76
1	AB	4849:DT	O3'	4850:DG	P	1.76
1	AB	4857:DT	O3'	4858:DG	P	1.76
1	AB	4885:DT	O3'	4886:DG	P	1.76
1	AB	4889:DT	O3'	4890:DG	P	1.76
1	AB	4900:DT	O3'	4901:DG	P	1.76
1	AB	4924:DT	O3'	4925:DG	P	1.76
1	AB	4949:DT	O3'	4950:DG	P	1.76
1	AB	4958:DA	O3'	4959:DG	P	1.76
1	AB	4963:DA	O3'	4964:DG	P	1.76
1	AB	4965:DA	O3'	4966:DG	P	1.76
1	AB	4995:DT	O3'	4996:DG	P	1.76
1	AB	5004:DT	O3'	5005:DG	P	1.76
1	AB	5008:DT	O3'	5009:DG	P	1.76
1	AB	5015:DT	O3'	5016:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	5023:DT	O3'	5024:DG	P	1.76
1	AB	5027:DT	O3'	5028:DG	P	1.76
1	AB	5044:DA	O3'	5045:DG	P	1.76
1	AB	5049:DT	O3'	5050:DG	P	1.76
1	AB	5057:DA	O3'	5058:DG	P	1.76
1	AB	5060:DT	O3'	5061:DG	P	1.76
1	AB	5064:DT	O3'	5065:DG	P	1.76
1	AB	5069:DT	O3'	5070:DG	P	1.76
1	AB	5080:DT	O3'	5081:DG	P	1.76
1	AB	5092:DT	O3'	5093:DG	P	1.76
1	AB	5111:DT	O3'	5112:DG	P	1.76
1	AB	5115:DA	O3'	5116:DG	P	1.76
1	AB	5118:DT	O3'	5119:DG	P	1.76
1	AB	5151:DT	O3'	5152:DG	P	1.76
1	AB	5182:DT	O3'	5183:DG	P	1.76
1	AB	5193:DA	O3'	5194:DG	P	1.76
1	AB	5227:DT	O3'	5228:DG	P	1.76
1	AB	5230:DT	O3'	5231:DG	P	1.76
1	AB	5240:DT	O3'	5241:DG	P	1.76
1	AB	5251:DA	O3'	5252:DG	P	1.76
1	AB	5256:DA	O3'	5257:DG	P	1.76
1	AB	5272:DT	O3'	5273:DG	P	1.76
1	AB	5275:DT	O3'	5276:DG	P	1.76
1	AB	5287:DT	O3'	5288:DG	P	1.76
1	AB	5298:DT	O3'	5299:DG	P	1.76
1	AB	5322:DT	O3'	5323:DG	P	1.76
1	AB	5364:DT	O3'	5365:DG	P	1.76
1	AB	5381:DT	O3'	5382:DG	P	1.76
1	AB	5398:DT	O3'	5399:DG	P	1.76
1	AB	5420:DT	O3'	5421:DG	P	1.76
1	AB	5424:DT	O3'	5425:DG	P	1.76
1	AB	5429:DT	O3'	5430:DG	P	1.76
1	AB	5433:DA	O3'	5434:DG	P	1.76
1	AB	5463:DT	O3'	5464:DG	P	1.76
1	AB	5467:DT	O3'	5468:DG	P	1.76
1	AB	5473:DA	O3'	5474:DG	P	1.76
1	AB	5481:DA	O3'	5482:DG	P	1.76
1	AB	5487:DT	O3'	5488:DG	P	1.76
1	AB	5492:DT	O3'	5493:DG	P	1.76
1	AB	5496:DA	O3'	5497:DG	P	1.76
1	AB	5502:DT	O3'	5503:DG	P	1.76
1	AB	5505:DA	O3'	5506:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	5551:DA	O3'	5552:DG	P	1.76
1	AB	5559:DT	O3'	5560:DG	P	1.76
1	AB	5571:DT	O3'	5572:DG	P	1.76
1	AB	5574:DT	O3'	5575:DG	P	1.76
1	AB	5577:DT	O3'	5578:DG	P	1.76
1	AB	5582:DT	O3'	5583:DG	P	1.76
1	AB	5610:DT	O3'	5611:DG	P	1.76
1	AB	5634:DA	O3'	5635:DG	P	1.76
1	AB	5640:DT	O3'	5641:DG	P	1.76
1	AB	5655:DT	O3'	5656:DG	P	1.76
1	AB	5657:DA	O3'	5658:DG	P	1.76
1	AB	5680:DT	O3'	5681:DG	P	1.76
1	AB	5685:DT	O3'	5686:DG	P	1.76
1	AB	5727:DT	O3'	5728:DG	P	1.76
1	AB	5733:DT	O3'	5734:DG	P	1.76
1	AB	5748:DA	O3'	5749:DG	P	1.76
1	AB	5755:DT	O3'	5756:DG	P	1.76
1	AB	5760:DT	O3'	5761:DG	P	1.76
1	AB	5771:DT	O3'	5772:DG	P	1.76
1	AB	5792:DT	O3'	5793:DG	P	1.76
1	AB	5797:DT	O3'	5798:DG	P	1.76
1	AB	5801:DT	O3'	5802:DG	P	1.76
1	AB	5805:DT	O3'	5806:DG	P	1.76
1	AB	5813:DT	O3'	5814:DG	P	1.76
1	AB	5817:DT	O3'	5818:DG	P	1.76
1	AB	5823:DT	O3'	5824:DG	P	1.76
1	AB	5836:DA	O3'	5837:DG	P	1.76
1	AB	5839:DA	O3'	5840:DG	P	1.76
1	AB	5844:DT	O3'	5845:DG	P	1.76
1	AB	5847:DT	O3'	5848:DG	P	1.76
1	AB	5874:DT	O3'	5875:DG	P	1.76
1	AB	5891:DA	O3'	5892:DG	P	1.76
1	AB	5898:DT	O3'	5899:DG	P	1.76
1	AB	5906:DT	O3'	5907:DG	P	1.76
1	AB	5922:DT	O3'	5923:DG	P	1.76
1	AB	5948:DA	O3'	5949:DG	P	1.76
1	AB	5953:DT	O3'	5954:DG	P	1.76
1	AB	5964:DT	O3'	5965:DG	P	1.76
1	AB	5971:DT	O3'	5972:DG	P	1.76
1	AB	5976:DT	O3'	5977:DG	P	1.76
1	AB	6003:DT	O3'	6004:DG	P	1.76
1	AB	6018:DT	O3'	6019:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6021:DT	O3'	6022:DG	P	1.76
1	AB	6023:DA	O3'	6024:DG	P	1.76
1	AB	6041:DA	O3'	6042:DG	P	1.76
1	AB	6049:DA	O3'	6050:DG	P	1.76
1	AB	6114:DT	O3'	6115:DG	P	1.76
1	AB	6119:DT	O3'	6120:DG	P	1.76
1	AB	6129:DT	O3'	6130:DG	P	1.76
1	AB	6140:DT	O3'	6141:DG	P	1.76
1	AB	6150:DT	O3'	6151:DG	P	1.76
1	AB	6153:DA	O3'	6154:DG	P	1.76
1	AB	6176:DT	O3'	6177:DG	P	1.76
1	AB	6207:DT	O3'	6208:DG	P	1.76
1	AB	6210:DT	O3'	6211:DG	P	1.76
1	AB	6222:DT	O3'	6223:DG	P	1.76
1	AB	6228:DT	O3'	6229:DG	P	1.76
1	AB	6254:DT	O3'	6255:DG	P	1.76
1	AB	6261:DT	O3'	6262:DG	P	1.76
1	AB	6268:DT	O3'	6269:DG	P	1.76
1	AB	6285:DT	O3'	6286:DG	P	1.76
1	AB	6290:DT	O3'	6291:DG	P	1.76
1	AB	6297:DA	O3'	6298:DG	P	1.76
1	AB	6317:DT	O3'	6318:DG	P	1.76
1	AB	6327:DT	O3'	6328:DG	P	1.76
1	AB	6344:DT	O3'	6345:DG	P	1.76
1	AB	6356:DA	O3'	6357:DG	P	1.76
1	AB	6384:DT	O3'	6385:DG	P	1.76
1	AB	6420:DT	O3'	6421:DG	P	1.76
1	AB	6437:DT	O3'	6438:DG	P	1.76
1	AB	6453:DT	O3'	6454:DG	P	1.76
1	AB	6457:DA	O3'	6458:DG	P	1.76
1	AB	6459:DT	O3'	6460:DG	P	1.76
1	AB	6462:DT	O3'	6463:DG	P	1.76
1	AB	6490:DT	O3'	6491:DG	P	1.76
1	AB	6498:DT	O3'	6499:DG	P	1.76
1	AB	6504:DT	O3'	6505:DG	P	1.76
1	AB	6513:DT	O3'	6514:DG	P	1.76
1	AB	6517:DT	O3'	6518:DG	P	1.76
1	AB	6519:DT	O3'	6520:DG	P	1.76
1	AB	6539:DT	O3'	6540:DG	P	1.76
1	AB	6542:DT	O3'	6543:DG	P	1.76
1	AB	6564:DT	O3'	6565:DG	P	1.76
1	AB	6615:DT	O3'	6616:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6619:DT	O3'	6620:DG	P	1.76
1	AB	6627:DT	O3'	6628:DG	P	1.76
1	AB	6629:DA	O3'	6630:DG	P	1.76
1	AB	6633:DA	O3'	6634:DG	P	1.76
1	AB	6674:DT	O3'	6675:DG	P	1.76
1	AB	6692:DA	O3'	6693:DG	P	1.76
1	AB	6713:DT	O3'	6714:DG	P	1.76
1	AB	6745:DT	O3'	6746:DG	P	1.76
1	AB	6749:DT	O3'	6750:DG	P	1.76
1	AB	6754:DA	O3'	6755:DG	P	1.76
1	AB	6759:DT	O3'	6760:DG	P	1.76
1	AB	6767:DT	O3'	6768:DG	P	1.76
1	AB	6772:DT	O3'	6773:DG	P	1.76
1	AB	6779:DT	O3'	6780:DG	P	1.76
1	AB	6794:DT	O3'	6795:DG	P	1.76
1	AB	6809:DT	O3'	6810:DG	P	1.76
1	AB	6824:DA	O3'	6825:DG	P	1.76
1	AB	6830:DT	O3'	6831:DG	P	1.76
1	AB	6836:DT	O3'	6837:DG	P	1.76
1	AB	6841:DT	O3'	6842:DG	P	1.76
1	AB	6856:DT	O3'	6857:DG	P	1.76
1	AB	6892:DT	O3'	6893:DG	P	1.76
1	AB	6904:DT	O3'	6905:DG	P	1.76
1	AB	6922:DA	O3'	6923:DG	P	1.76
1	AB	6929:DT	O3'	6930:DG	P	1.76
1	AB	6935:DA	O3'	6936:DG	P	1.76
1	AB	6968:DT	O3'	6969:DG	P	1.76
1	AB	6984:DT	O3'	6985:DG	P	1.76
1	AB	6991:DT	O3'	6992:DG	P	1.76
1	AB	7002:DT	O3'	7003:DG	P	1.76
1	AB	7014:DT	O3'	7015:DG	P	1.76
1	AB	7024:DA	O3'	7025:DG	P	1.76
1	AB	7027:DT	O3'	7028:DG	P	1.76
1	AB	7029:DA	O3'	7030:DG	P	1.76
1	AB	7039:DT	O3'	7040:DG	P	1.76
1	AB	7071:DT	O3'	7072:DG	P	1.76
1	AB	7082:DT	O3'	7083:DG	P	1.76
1	AB	7108:DT	O3'	7109:DG	P	1.76
1	AB	7122:DT	O3'	7123:DG	P	1.76
1	AB	7128:DA	O3'	7129:DG	P	1.76
1	AB	7135:DA	O3'	7136:DG	P	1.76
1	AB	7144:DA	O3'	7145:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	7150:DT	O3'	7151:DG	P	1.76
1	AB	7153:DA	O3'	7154:DG	P	1.76
1	AB	7159:DT	O3'	7160:DG	P	1.76
1	AB	7176:DT	O3'	7177:DG	P	1.76
1	AB	7179:DT	O3'	7180:DG	P	1.76
1	AB	7189:DT	O3'	7190:DG	P	1.76
1	AB	7192:DT	O3'	7193:DG	P	1.76
1	AB	7198:DT	O3'	7199:DG	P	1.76
1	AB	7230:DT	O3'	7231:DG	P	1.76
1	AC	21:DA	O3'	22:DG	P	1.76
1	AD	31:DA	O3'	32:DG	P	1.76
1	AD	42:DT	O3'	43:DG	P	1.76
1	B1	17:DA	O3'	18:DG	P	1.76
1	B1	19:DA	O3'	20:DG	P	1.76
1	B2	15:DA	O3'	16:DG	P	1.76
1	B3	15:DT	O3'	16:DG	P	1.76
1	B4	10:DT	O3'	11:DG	P	1.76
1	B4	21:DT	O3'	22:DG	P	1.76
1	B5	10:DA	O3'	11:DG	P	1.76
1	B6	8:DT	O3'	9:DG	P	1.76
1	B6	16:DA	O3'	17:DG	P	1.76
1	B9	3:DT	O3'	4:DG	P	1.76
1	B9	10:DA	O3'	11:DG	P	1.76
1	B9	12:DA	O3'	13:DG	P	1.76
1	B9	23:DA	O3'	24:DG	P	1.76
1	B9	27:DA	O3'	28:DG	P	1.76
1	B9	40:DT	O3'	41:DG	P	1.76
1	B9	44:DT	O3'	45:DG	P	1.76
1	B9	46:DA	O3'	47:DG	P	1.76
1	B9	52:DA	O3'	53:DG	P	1.76
1	BA	32:DT	O3'	33:DG	P	1.76
1	BC	14:DA	O3'	15:DG	P	1.76
1	BC	33:DT	O3'	34:DG	P	1.76
1	C2	8:DT	O3'	9:DG	P	1.76
1	C3	12:DT	O3'	13:DG	P	1.76
1	C5	2:DT	O3'	3:DG	P	1.76
1	C5	9:DA	O3'	10:DG	P	1.76
1	C5	41:DT	O3'	42:DG	P	1.76
1	C6	2:DA	O3'	3:DG	P	1.76
1	C6	6:DA	O3'	7:DG	P	1.76
1	C6	15:DT	O3'	16:DG	P	1.76
1	C6	30:DA	O3'	31:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C7	2:DA	O3'	3:DG	P	1.76
1	C7	14:DT	O3'	15:DG	P	1.76
1	C7	18:DT	O3'	19:DG	P	1.76
1	C7	22:DA	O3'	23:DG	P	1.76
1	C7	29:DT	O3'	30:DG	P	1.76
1	C8	7:DA	O3'	8:DG	P	1.76
1	C8	14:DT	O3'	15:DG	P	1.76
1	C8	35:DA	O3'	36:DG	P	1.76
1	C8	52:DT	O3'	53:DG	P	1.76
1	C9	8:DT	O3'	9:DG	P	1.76
1	CA	10:DA	O3'	11:DG	P	1.76
1	CA	16:DT	O3'	17:DG	P	1.76
1	CC	21:DA	O3'	22:DG	P	1.76
1	CC	29:DT	O3'	30:DG	P	1.76
1	CD	13:DA	O3'	14:DG	P	1.76
1	D1	16:DA	O3'	17:DG	P	1.76
1	D2	5:DA	O3'	6:DG	P	1.76
1	D3	1:DT	O3'	2:DG	P	1.76
1	D5	17:DA	O3'	18:DG	P	1.76
1	D5	23:DA	O3'	24:DG	P	1.76
1	D6	8:DA	O3'	9:DG	P	1.76
1	D6	17:DT	O3'	18:DG	P	1.76
1	D6	34:DT	O3'	35:DG	P	1.76
1	D7	6:DT	O3'	7:DG	P	1.76
1	D8	4:DA	O3'	5:DG	P	1.76
1	D8	7:DA	O3'	8:DG	P	1.76
1	D8	36:DA	O3'	37:DG	P	1.76
1	D9	6:DT	O3'	7:DG	P	1.76
1	D9	22:DA	O3'	23:DG	P	1.76
1	DA	10:DT	O3'	11:DG	P	1.76
1	DC	5:DT	O3'	6:DG	P	1.76
1	DC	7:DA	O3'	8:DG	P	1.76
1	DD	14:DT	O3'	15:DG	P	1.76
1	DD	28:DT	O3'	29:DG	P	1.76
1	DD	37:DA	O3'	38:DG	P	1.76
1	DD	40:DA	O3'	41:DG	P	1.76
1	E1	4:DA	O3'	5:DG	P	1.76
1	E1	6:DA	O3'	7:DG	P	1.76
1	E1	20:DT	O3'	21:DG	P	1.76
1	E2	31:DT	O3'	32:DG	P	1.76
1	E5	22:DT	O3'	23:DG	P	1.76
1	E6	27:DA	O3'	28:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E6	29:DA	O3'	30:DG	P	1.76
1	E7	10:DT	O3'	11:DG	P	1.76
1	E8	25:DT	O3'	26:DG	P	1.76
1	E9	10:DT	O3'	11:DG	P	1.76
1	E9	28:DT	O3'	29:DG	P	1.76
1	E9	37:DT	O3'	38:DG	P	1.76
1	E9	44:DT	O3'	45:DG	P	1.76
1	EA	7:DT	O3'	8:DG	P	1.76
1	EA	9:DA	O3'	10:DG	P	1.76
1	EA	11:DT	O3'	12:DG	P	1.76
1	EA	14:DT	O3'	15:DG	P	1.76
1	EC	8:DT	O3'	9:DG	P	1.76
1	ED	6:DA	O3'	7:DG	P	1.76
1	ED	18:DT	O3'	19:DG	P	1.76
1	F2	21:DA	O3'	22:DG	P	1.76
1	F3	5:DT	O3'	6:DG	P	1.76
1	F3	8:DA	O3'	9:DG	P	1.76
1	F5	47:DA	O3'	48:DG	P	1.76
1	F6	16:DA	O3'	17:DG	P	1.76
1	F7	13:DT	O3'	14:DG	P	1.76
1	F8	2:DT	O3'	3:DG	P	1.76
1	F9	6:DA	O3'	7:DG	P	1.76
1	FA	2:DA	O3'	3:DG	P	1.76
1	FA	5:DA	O3'	6:DG	P	1.76
1	FA	17:DA	O3'	18:DG	P	1.76
1	FC	4:DT	O3'	5:DG	P	1.76
1	FD	1:DA	O3'	2:DG	P	1.76
1	FD	36:DT	O3'	37:DG	P	1.76
1	FD	39:DA	O3'	40:DG	P	1.76
1	G1	4:DT	O3'	5:DG	P	1.76
1	G2	21:DA	O3'	22:DG	P	1.76
1	G5	6:DA	O3'	7:DG	P	1.76
1	G5	15:DA	O3'	16:DG	P	1.76
1	G5	21:DA	O3'	22:DG	P	1.76
1	G5	23:DT	O3'	24:DG	P	1.76
1	G6	20:DT	O3'	21:DG	P	1.76
1	G6	28:DT	O3'	29:DG	P	1.76
1	G6	32:DT	O3'	33:DG	P	1.76
1	G6	34:DT	O3'	35:DG	P	1.76
1	G7	23:DA	O3'	24:DG	P	1.76
1	G7	25:DT	O3'	26:DG	P	1.76
1	G8	2:DT	O3'	3:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	G8	5:DA	O3'	6:DG	P	1.76
1	G8	17:DT	O3'	18:DG	P	1.76
1	G9	16:DT	O3'	17:DG	P	1.76
1	GC	20:DT	O3'	21:DG	P	1.76
1	GD	18:DA	O3'	19:DG	P	1.76
1	H1	5:DT	O3'	6:DG	P	1.76
1	H2	35:DA	O3'	36:DG	P	1.76
1	H2	37:DT	O3'	38:DG	P	1.76
1	H2	42:DA	O3'	43:DG	P	1.76
1	H2	46:DT	O3'	47:DG	P	1.76
1	H2	53:DA	O3'	54:DG	P	1.76
1	H3	4:DT	O3'	5:DG	P	1.76
1	H3	10:DA	O3'	11:DG	P	1.76
1	H3	18:DT	O3'	19:DG	P	1.76
1	H3	29:DA	O3'	30:DG	P	1.76
1	H5	8:DT	O3'	9:DG	P	1.76
1	H5	13:DA	O3'	14:DG	P	1.76
1	H5	19:DT	O3'	20:DG	P	1.76
1	H6	15:DA	O3'	16:DG	P	1.76
1	H6	20:DT	O3'	21:DG	P	1.76
1	H6	25:DT	O3'	26:DG	P	1.76
1	H6	30:DA	O3'	31:DG	P	1.76
1	H7	10:DT	O3'	11:DG	P	1.76
1	H8	20:DA	O3'	21:DG	P	1.76
1	H9	9:DT	O3'	10:DG	P	1.76
1	H9	13:DT	O3'	14:DG	P	1.76
1	HC	6:DT	O3'	7:DG	P	1.76
1	HC	20:DT	O3'	21:DG	P	1.76
1	HC	26:DA	O3'	27:DG	P	1.76
1	HD	14:DT	O3'	15:DG	P	1.76
1	I1	12:DA	O3'	13:DG	P	1.76
1	I2	23:DA	O3'	24:DG	P	1.76
1	I2	37:DT	O3'	38:DG	P	1.76
1	I3	16:DA	O3'	17:DG	P	1.76
1	I3	42:DT	O3'	43:DG	P	1.76
1	I3	54:DT	O3'	55:DG	P	1.76
1	I5	17:DT	O3'	18:DG	P	1.76
1	I5	21:DA	O3'	22:DG	P	1.76
1	I5	41:DA	O3'	42:DG	P	1.76
1	I6	2:DT	O3'	3:DG	P	1.76
1	I6	9:DT	O3'	10:DG	P	1.76
1	I7	13:DT	O3'	14:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I7	29:DT	O3'	30:DG	P	1.76
1	I8	36:DA	O3'	37:DG	P	1.76
1	I8	43:DT	O3'	44:DG	P	1.76
1	I9	13:DT	O3'	14:DG	P	1.76
1	I9	19:DT	O3'	20:DG	P	1.76
1	IA	22:DA	O3'	23:DG	P	1.76
1	IC	12:DT	O3'	13:DG	P	1.76
1	IC	24:DT	O3'	25:DG	P	1.76
1	ID	1:DT	O3'	2:DG	P	1.76
1	ID	3:DA	O3'	4:DG	P	1.76
1	ID	16:DT	O3'	17:DG	P	1.76
1	ID	20:DA	O3'	21:DG	P	1.76
1	ID	22:DA	O3'	23:DG	P	1.76
1	ID	25:DA	O3'	26:DG	P	1.76
1	ID	29:DA	O3'	30:DG	P	1.76
1	J1	12:DT	O3'	13:DG	P	1.76
1	J2	2:DA	O3'	3:DG	P	1.76
1	J2	20:DT	O3'	21:DG	P	1.76
1	J5	11:DT	O3'	12:DG	P	1.76
1	J6	11:DT	O3'	12:DG	P	1.76
1	J6	42:DT	O3'	43:DG	P	1.76
1	J7	4:DT	O3'	5:DG	P	1.76
1	J7	6:DA	O3'	7:DG	P	1.76
1	J7	10:DA	O3'	11:DG	P	1.76
1	J7	19:DT	O3'	20:DG	P	1.76
1	J7	29:DT	O3'	30:DG	P	1.76
1	J7	52:DT	O3'	53:DG	P	1.76
1	J7	54:DA	O3'	55:DG	P	1.76
1	J8	10:DA	O3'	11:DG	P	1.76
1	J8	24:DT	O3'	25:DG	P	1.76
1	J8	39:DT	O3'	40:DG	P	1.76
1	J8	48:DT	O3'	49:DG	P	1.76
1	J8	52:DA	O3'	53:DG	P	1.76
1	JC	11:DA	O3'	12:DG	P	1.76
1	JD	2:DA	O3'	3:DG	P	1.76
1	JD	29:DT	O3'	30:DG	P	1.76
1	JD	37:DA	O3'	38:DG	P	1.76
1	K1	15:DA	O3'	16:DG	P	1.76
1	K1	30:DA	O3'	31:DG	P	1.76
1	K1	43:DT	O3'	44:DG	P	1.76
1	K2	14:DT	O3'	15:DG	P	1.76
1	K2	26:DT	O3'	27:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K3	9:DA	O3'	10:DG	P	1.76
1	K5	16:DT	O3'	17:DG	P	1.76
1	K5	26:DT	O3'	27:DG	P	1.76
1	K5	31:DT	O3'	32:DG	P	1.76
1	K6	8:DT	O3'	9:DG	P	1.76
1	K6	17:DT	O3'	18:DG	P	1.76
1	K7	2:DA	O3'	3:DG	P	1.76
1	K7	12:DA	O3'	13:DG	P	1.76
1	K7	20:DT	O3'	21:DG	P	1.76
1	K7	26:DT	O3'	27:DG	P	1.76
1	K7	34:DT	O3'	35:DG	P	1.76
1	K7	38:DT	O3'	39:DG	P	1.76
1	K8	5:DT	O3'	6:DG	P	1.76
1	K9	19:DT	O3'	20:DG	P	1.76
1	K9	26:DT	O3'	27:DG	P	1.76
1	KA	4:DT	O3'	5:DG	P	1.76
1	KA	26:DA	O3'	27:DG	P	1.76
1	KA	43:DT	O3'	44:DG	P	1.76
1	KC	15:DT	O3'	16:DG	P	1.76
1	KC	17:DA	O3'	18:DG	P	1.76
1	KD	5:DT	O3'	6:DG	P	1.76
1	KD	18:DA	O3'	19:DG	P	1.76
1	KD	22:DT	O3'	23:DG	P	1.76
1	L1	1:DT	O3'	2:DG	P	1.76
1	L1	9:DA	O3'	10:DG	P	1.76
1	L1	11:DA	O3'	12:DG	P	1.76
1	L1	24:DT	O3'	25:DG	P	1.76
1	L1	47:DT	O3'	48:DG	P	1.76
1	L2	23:DT	O3'	24:DG	P	1.76
1	L2	44:DA	O3'	45:DG	P	1.76
1	L2	47:DA	O3'	48:DG	P	1.76
1	L2	50:DA	O3'	51:DG	P	1.76
1	L3	3:DA	O3'	4:DG	P	1.76
1	L5	9:DT	O3'	10:DG	P	1.76
1	L5	15:DA	O3'	16:DG	P	1.76
1	L5	22:DA	O3'	23:DG	P	1.76
1	L6	5:DT	O3'	6:DG	P	1.76
1	L7	5:DA	O3'	6:DG	P	1.76
1	L7	33:DA	O3'	34:DG	P	1.76
1	L7	54:DT	O3'	55:DG	P	1.76
1	L9	10:DA	O3'	11:DG	P	1.76
1	LA	1:DT	O3'	2:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	LA	5:DT	O3'	6:DG	P	1.76
1	LC	9:DA	O3'	10:DG	P	1.76
1	LC	11:DT	O3'	12:DG	P	1.76
1	M2	5:DT	O3'	6:DG	P	1.76
1	M3	4:DA	O3'	5:DG	P	1.76
1	M3	16:DT	O3'	17:DG	P	1.76
1	M5	15:DT	O3'	16:DG	P	1.76
1	M5	31:DT	O3'	32:DG	P	1.76
1	M6	3:DA	O3'	4:DG	P	1.76
1	M7	12:DA	O3'	13:DG	P	1.76
1	M7	21:DT	O3'	22:DG	P	1.76
1	M8	14:DT	O3'	15:DG	P	1.76
1	M8	20:DT	O3'	21:DG	P	1.76
1	M9	20:DA	O3'	21:DG	P	1.76
1	MA	33:DT	O3'	34:DG	P	1.76
1	MC	11:DT	O3'	12:DG	P	1.76
1	MD	23:DA	O3'	24:DG	P	1.76
1	MD	45:DT	O3'	46:DG	P	1.76
1	MD	52:DA	O3'	53:DG	P	1.76
1	N2	13:DA	O3'	14:DG	P	1.76
1	N5	28:DA	O3'	29:DG	P	1.76
1	N5	34:DT	O3'	35:DG	P	1.76
1	N6	1:DT	O3'	2:DG	P	1.76
1	N6	25:DT	O3'	26:DG	P	1.76
1	N8	14:DT	O3'	15:DG	P	1.76
1	N9	1:DT	O3'	2:DG	P	1.76
1	N9	11:DT	O3'	12:DG	P	1.76
1	N9	22:DA	O3'	23:DG	P	1.76
1	N9	28:DT	O3'	29:DG	P	1.76
1	N9	37:DA	O3'	38:DG	P	1.76
1	N9	46:DT	O3'	47:DG	P	1.76
1	NA	20:DA	O3'	21:DG	P	1.76
1	NC	3:DT	O3'	4:DG	P	1.76
1	NC	20:DT	O3'	21:DG	P	1.76
1	NC	29:DA	O3'	30:DG	P	1.76
1	NC	33:DT	O3'	34:DG	P	1.76
1	ND	6:DA	O3'	7:DG	P	1.76
1	O2	9:DT	O3'	10:DG	P	1.76
1	O2	25:DT	O3'	26:DG	P	1.76
1	O2	58:DA	O3'	59:DG	P	1.76
1	O3	11:DA	O3'	12:DG	P	1.76
1	O5	52:DT	O3'	53:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O6	19:DA	O3'	20:DG	P	1.76
1	O7	7:DA	O3'	8:DG	P	1.76
1	O7	15:DT	O3'	16:DG	P	1.76
1	O7	25:DT	O3'	26:DG	P	1.76
1	O8	5:DT	O3'	6:DG	P	1.76
1	O8	8:DA	O3'	9:DG	P	1.76
1	O8	22:DT	O3'	23:DG	P	1.76
1	O8	52:DA	O3'	53:DG	P	1.76
1	O8	56:DA	O3'	57:DG	P	1.76
1	OC	25:DA	O3'	26:DG	P	1.76
1	OD	5:DA	O3'	6:DG	P	1.76
1	OD	31:DT	O3'	32:DG	P	1.76
1	OD	34:DT	O3'	35:DG	P	1.76
1	OD	54:DA	O3'	55:DG	P	1.76
1	P2	5:DT	O3'	6:DG	P	1.76
1	P2	27:DA	O3'	28:DG	P	1.76
1	P3	28:DA	O3'	29:DG	P	1.76
1	P6	15:DA	O3'	16:DG	P	1.76
1	P6	17:DA	O3'	18:DG	P	1.76
1	P7	16:DA	O3'	17:DG	P	1.76
1	P9	14:DT	O3'	15:DG	P	1.76
1	P9	27:DT	O3'	28:DG	P	1.76
1	PA	17:DT	O3'	18:DG	P	1.76
1	PC	9:DT	O3'	10:DG	P	1.76
1	PC	13:DT	O3'	14:DG	P	1.76
1	PC	18:DT	O3'	19:DG	P	1.76
1	PC	22:DT	O3'	23:DG	P	1.76
1	PD	7:DT	O3'	8:DG	P	1.76
1	Q3	21:DT	O3'	22:DG	P	1.76
1	Q5	23:DT	O3'	24:DG	P	1.76
1	Q5	27:DT	O3'	28:DG	P	1.76
1	Q7	20:DT	O3'	21:DG	P	1.76
1	Q8	9:DT	O3'	10:DG	P	1.76
1	Q9	19:DA	O3'	20:DG	P	1.76
1	QA	10:DT	O3'	11:DG	P	1.76
1	QA	13:DA	O3'	14:DG	P	1.76
1	QD	13:DT	O3'	14:DG	P	1.76
1	R3	10:DA	O3'	11:DG	P	1.76
1	R5	3:DA	O3'	4:DG	P	1.76
1	R5	13:DT	O3'	14:DG	P	1.76
1	R5	17:DA	O3'	18:DG	P	1.76
1	R5	22:DA	O3'	23:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	R5	24:DT	O3'	25:DG	P	1.76
1	R5	26:DA	O3'	27:DG	P	1.76
1	R5	36:DA	O3'	37:DG	P	1.76
1	R7	4:DT	O3'	5:DG	P	1.76
1	R7	12:DT	O3'	13:DG	P	1.76
1	R7	27:DT	O3'	28:DG	P	1.76
1	R8	26:DT	O3'	27:DG	P	1.76
1	R8	30:DA	O3'	31:DG	P	1.76
1	R9	7:DT	O3'	8:DG	P	1.76
1	R9	12:DA	O3'	13:DG	P	1.76
1	R9	27:DA	O3'	28:DG	P	1.76
1	RC	6:DA	O3'	7:DG	P	1.76
1	RC	32:DT	O3'	33:DG	P	1.76
1	S2	13:DA	O3'	14:DG	P	1.76
1	S2	17:DA	O3'	18:DG	P	1.76
1	S2	28:DT	O3'	29:DG	P	1.76
1	S3	4:DT	O3'	5:DG	P	1.76
1	S7	9:DT	O3'	10:DG	P	1.76
1	S7	22:DT	O3'	23:DG	P	1.76
1	S8	7:DT	O3'	8:DG	P	1.76
1	S8	26:DT	O3'	27:DG	P	1.76
1	S9	17:DT	O3'	18:DG	P	1.76
1	SA	10:DT	O3'	11:DG	P	1.76
1	SC	4:DT	O3'	5:DG	P	1.76
1	SC	10:DA	O3'	11:DG	P	1.76
1	SD	9:DA	O3'	10:DG	P	1.76
1	T2	25:DA	O3'	26:DG	P	1.76
1	T3	16:DT	O3'	17:DG	P	1.76
1	T3	19:DT	O3'	20:DG	P	1.76
1	T3	37:DA	O3'	38:DG	P	1.76
1	T5	21:DA	O3'	22:DG	P	1.76
1	T7	4:DT	O3'	5:DG	P	1.76
1	T7	6:DA	O3'	7:DG	P	1.76
1	T7	8:DA	O3'	9:DG	P	1.76
1	T7	11:DT	O3'	12:DG	P	1.76
1	T7	14:DT	O3'	15:DG	P	1.76
1	T7	22:DA	O3'	23:DG	P	1.76
1	T7	35:DA	O3'	36:DG	P	1.76
1	T7	37:DA	O3'	38:DG	P	1.76
1	T7	49:DA	O3'	50:DG	P	1.76
1	T8	6:DT	O3'	7:DG	P	1.76
1	T8	8:DT	O3'	9:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	T8	18:DT	O3'	19:DG	P	1.76
1	TA	26:DA	O3'	27:DG	P	1.76
1	TD	12:DA	O3'	13:DG	P	1.76
1	TD	16:DT	O3'	17:DG	P	1.76
1	TD	22:DT	O3'	23:DG	P	1.76
1	U2	9:DT	O3'	10:DG	P	1.76
1	U2	12:DA	O3'	13:DG	P	1.76
1	U3	9:DA	O3'	10:DG	P	1.76
1	U3	15:DT	O3'	16:DG	P	1.76
1	U5	29:DA	O3'	30:DG	P	1.76
1	U7	13:DT	O3'	14:DG	P	1.76
1	U7	20:DT	O3'	21:DG	P	1.76
1	U7	22:DT	O3'	23:DG	P	1.76
1	U8	23:DT	O3'	24:DG	P	1.76
1	U9	6:DA	O3'	7:DG	P	1.76
1	U9	10:DA	O3'	11:DG	P	1.76
1	U9	27:DT	O3'	28:DG	P	1.76
1	UA	4:DT	O3'	5:DG	P	1.76
1	UA	12:DA	O3'	13:DG	P	1.76
1	UA	17:DT	O3'	18:DG	P	1.76
1	UC	7:DT	O3'	8:DG	P	1.76
1	UC	12:DT	O3'	13:DG	P	1.76
1	UC	17:DA	O3'	18:DG	P	1.76
1	V3	9:DT	O3'	10:DG	P	1.76
1	V3	20:DT	O3'	21:DG	P	1.76
1	V3	23:DT	O3'	24:DG	P	1.76
1	V5	8:DA	O3'	9:DG	P	1.76
1	V5	12:DT	O3'	13:DG	P	1.76
1	V5	31:DA	O3'	32:DG	P	1.76
1	V7	20:DA	O3'	21:DG	P	1.76
1	V8	19:DA	O3'	20:DG	P	1.76
1	V9	3:DT	O3'	4:DG	P	1.76
1	V9	14:DA	O3'	15:DG	P	1.76
1	V9	27:DT	O3'	28:DG	P	1.76
1	VA	10:DT	O3'	11:DG	P	1.76
1	VC	8:DT	O3'	9:DG	P	1.76
1	W3	8:DT	O3'	9:DG	P	1.76
1	W3	12:DT	O3'	13:DG	P	1.76
1	W3	18:DA	O3'	19:DG	P	1.76
1	W3	47:DA	O3'	48:DG	P	1.76
1	W5	22:DA	O3'	23:DG	P	1.76
1	W7	5:DT	O3'	6:DG	P	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	W7	11:DT	O3'	12:DG	P	1.76
1	W8	12:DA	O3'	13:DG	P	1.76
1	W8	20:DT	O3'	21:DG	P	1.76
1	W9	11:DT	O3'	12:DG	P	1.76
1	X5	8:DT	O3'	9:DG	P	1.76
1	X9	6:DT	O3'	7:DG	P	1.76
1	X9	9:DT	O3'	10:DG	P	1.76
1	X9	48:DA	O3'	49:DG	P	1.76
1	A1	50:DC	O3'	51:DT	P	1.75
1	A2	14:DC	O3'	15:DT	P	1.75
1	A2	21:DC	O3'	22:DT	P	1.75
1	A4	6:DC	O3'	7:DA	P	1.75
1	A4	17:DC	O3'	18:DA	P	1.75
1	A5	32:DC	O3'	33:DT	P	1.75
1	A6	14:DC	O3'	15:DT	P	1.75
1	A8	22:DC	O3'	23:DT	P	1.75
1	AA	5:DC	O3'	6:DA	P	1.75
1	AB	48:DC	O3'	49:DT	P	1.75
1	AB	62:DC	O3'	63:DT	P	1.75
1	AB	91:DC	O3'	92:DT	P	1.75
1	AB	115:DC	O3'	116:DT	P	1.75
1	AB	175:DC	O3'	176:DT	P	1.75
1	AB	187:DC	O3'	188:DT	P	1.75
1	AB	191:DC	O3'	192:DT	P	1.75
1	AB	196:DC	O3'	197:DT	P	1.75
1	AB	200:DC	O3'	201:DT	P	1.75
1	AB	205:DC	O3'	206:DT	P	1.75
1	AB	211:DC	O3'	212:DT	P	1.75
1	AB	256:DC	O3'	257:DT	P	1.75
1	AB	280:DC	O3'	281:DT	P	1.75
1	AB	299:DC	O3'	300:DT	P	1.75
1	AB	312:DC	O3'	313:DT	P	1.75
1	AB	322:DC	O3'	323:DT	P	1.75
1	AB	343:DC	O3'	344:DT	P	1.75
1	AB	379:DC	O3'	380:DT	P	1.75
1	AB	387:DC	O3'	388:DT	P	1.75
1	AB	391:DC	O3'	392:DT	P	1.75
1	AB	397:DC	O3'	398:DT	P	1.75
1	AB	416:DC	O3'	417:DT	P	1.75
1	AB	418:DC	O3'	419:DT	P	1.75
1	AB	433:DC	O3'	434:DT	P	1.75
1	AB	448:DC	O3'	449:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	472:DC	O3'	473:DT	P	1.75
1	AB	519:DC	O3'	520:DT	P	1.75
1	AB	529:DC	O3'	530:DT	P	1.75
1	AB	538:DC	O3'	539:DT	P	1.75
1	AB	544:DC	O3'	545:DT	P	1.75
1	AB	559:DC	O3'	560:DT	P	1.75
1	AB	565:DC	O3'	566:DT	P	1.75
1	AB	571:DC	O3'	572:DT	P	1.75
1	AB	574:DC	O3'	575:DT	P	1.75
1	AB	576:DC	O3'	577:DT	P	1.75
1	AB	586:DC	O3'	587:DT	P	1.75
1	AB	592:DC	O3'	593:DT	P	1.75
1	AB	594:DC	O3'	595:DT	P	1.75
1	AB	601:DC	O3'	602:DT	P	1.75
1	AB	649:DC	O3'	650:DT	P	1.75
1	AB	664:DC	O3'	665:DT	P	1.75
1	AB	670:DC	O3'	671:DT	P	1.75
1	AB	679:DC	O3'	680:DT	P	1.75
1	AB	694:DC	O3'	695:DT	P	1.75
1	AB	709:DC	O3'	710:DT	P	1.75
1	AB	712:DC	O3'	713:DT	P	1.75
1	AB	739:DC	O3'	740:DT	P	1.75
1	AB	743:DC	O3'	744:DT	P	1.75
1	AB	778:DC	O3'	779:DT	P	1.75
1	AB	782:DC	O3'	783:DT	P	1.75
1	AB	826:DC	O3'	827:DT	P	1.75
1	AB	831:DC	O3'	832:DT	P	1.75
1	AB	835:DC	O3'	836:DT	P	1.75
1	AB	841:DC	O3'	842:DT	P	1.75
1	AB	844:DC	O3'	845:DT	P	1.75
1	AB	853:DC	O3'	854:DT	P	1.75
1	AB	863:DC	O3'	864:DT	P	1.75
1	AB	904:DC	O3'	905:DT	P	1.75
1	AB	919:DC	O3'	920:DT	P	1.75
1	AB	932:DC	O3'	933:DT	P	1.75
1	AB	934:DC	O3'	935:DT	P	1.75
1	AB	959:DC	O3'	960:DT	P	1.75
1	AB	961:DC	O3'	962:DT	P	1.75
1	AB	1012:DC	O3'	1013:DT	P	1.75
1	AB	1041:DC	O3'	1042:DT	P	1.75
1	AB	1048:DC	O3'	1049:DT	P	1.75
1	AB	1054:DC	O3'	1055:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1065:DC	O3'	1066:DT	P	1.75
1	AB	1072:DC	O3'	1073:DT	P	1.75
1	AB	1081:DC	O3'	1082:DT	P	1.75
1	AB	1093:DC	O3'	1094:DT	P	1.75
1	AB	1096:DC	O3'	1097:DT	P	1.75
1	AB	1128:DC	O3'	1129:DT	P	1.75
1	AB	1132:DC	O3'	1133:DT	P	1.75
1	AB	1147:DC	O3'	1148:DT	P	1.75
1	AB	1150:DC	O3'	1151:DT	P	1.75
1	AB	1162:DC	O3'	1163:DT	P	1.75
1	AB	1166:DC	O3'	1167:DT	P	1.75
1	AB	1183:DC	O3'	1184:DT	P	1.75
1	AB	1240:DC	O3'	1241:DT	P	1.75
1	AB	1245:DC	O3'	1246:DT	P	1.75
1	AB	1249:DC	O3'	1250:DT	P	1.75
1	AB	1285:DC	O3'	1286:DT	P	1.75
1	AB	1306:DC	O3'	1307:DT	P	1.75
1	AB	1328:DC	O3'	1329:DT	P	1.75
1	AB	1353:DC	O3'	1354:DT	P	1.75
1	AB	1370:DC	O3'	1371:DT	P	1.75
1	AB	1387:DC	O3'	1388:DT	P	1.75
1	AB	1396:DC	O3'	1397:DT	P	1.75
1	AB	1404:DC	O3'	1405:DT	P	1.75
1	AB	1420:DC	O3'	1421:DT	P	1.75
1	AB	1436:DC	O3'	1437:DT	P	1.75
1	AB	1478:DC	O3'	1479:DT	P	1.75
1	AB	1495:DC	O3'	1496:DT	P	1.75
1	AB	1499:DC	O3'	1500:DT	P	1.75
1	AB	1502:DC	O3'	1503:DT	P	1.75
1	AB	1506:DC	O3'	1507:DT	P	1.75
1	AB	1511:DC	O3'	1512:DT	P	1.75
1	AB	1522:DC	O3'	1523:DT	P	1.75
1	AB	1536:DC	O3'	1537:DT	P	1.75
1	AB	1542:DC	O3'	1543:DT	P	1.75
1	AB	1556:DC	O3'	1557:DT	P	1.75
1	AB	1560:DC	O3'	1561:DT	P	1.75
1	AB	1562:DC	O3'	1563:DT	P	1.75
1	AB	1574:DC	O3'	1575:DT	P	1.75
1	AB	1579:DC	O3'	1580:DT	P	1.75
1	AB	1598:DC	O3'	1599:DT	P	1.75
1	AB	1602:DC	O3'	1603:DT	P	1.75
1	AB	1626:DC	O3'	1627:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	1670:DC	O3'	1671:DT	P	1.75
1	AB	1675:DC	O3'	1676:DT	P	1.75
1	AB	1691:DC	O3'	1692:DT	P	1.75
1	AB	1693:DC	O3'	1694:DT	P	1.75
1	AB	1695:DC	O3'	1696:DT	P	1.75
1	AB	1704:DC	O3'	1705:DT	P	1.75
1	AB	1771:DC	O3'	1772:DT	P	1.75
1	AB	1799:DC	O3'	1800:DT	P	1.75
1	AB	1801:DC	O3'	1802:DT	P	1.75
1	AB	1812:DC	O3'	1813:DT	P	1.75
1	AB	1849:DC	O3'	1850:DT	P	1.75
1	AB	1872:DC	O3'	1873:DT	P	1.75
1	AB	1884:DC	O3'	1885:DT	P	1.75
1	AB	1893:DC	O3'	1894:DT	P	1.75
1	AB	1915:DC	O3'	1916:DT	P	1.75
1	AB	1932:DC	O3'	1933:DT	P	1.75
1	AB	1951:DC	O3'	1952:DT	P	1.75
1	AB	1954:DC	O3'	1955:DT	P	1.75
1	AB	1960:DC	O3'	1961:DT	P	1.75
1	AB	1968:DC	O3'	1969:DT	P	1.75
1	AB	1972:DC	O3'	1973:DT	P	1.75
1	AB	1994:DC	O3'	1995:DT	P	1.75
1	AB	2015:DC	O3'	2016:DT	P	1.75
1	AB	2025:DC	O3'	2026:DT	P	1.75
1	AB	2041:DC	O3'	2042:DT	P	1.75
1	AB	2059:DC	O3'	2060:DT	P	1.75
1	AB	2100:DC	O3'	2101:DT	P	1.75
1	AB	2107:DC	O3'	2108:DT	P	1.75
1	AB	2147:DC	O3'	2148:DT	P	1.75
1	AB	2176:DC	O3'	2177:DT	P	1.75
1	AB	2185:DC	O3'	2186:DT	P	1.75
1	AB	2211:DC	O3'	2212:DT	P	1.75
1	AB	2264:DC	O3'	2265:DT	P	1.75
1	AB	2281:DC	O3'	2282:DT	P	1.75
1	AB	2332:DC	O3'	2333:DT	P	1.75
1	AB	2353:DC	O3'	2354:DT	P	1.75
1	AB	2383:DC	O3'	2384:DT	P	1.75
1	AB	2425:DC	O3'	2426:DT	P	1.75
1	AB	2437:DC	O3'	2438:DT	P	1.75
1	AB	2497:DC	O3'	2498:DT	P	1.75
1	AB	2521:DC	O3'	2522:DT	P	1.75
1	AB	2529:DC	O3'	2530:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	2535:DC	O3'	2536:DT	P	1.75
1	AB	2584:DC	O3'	2585:DT	P	1.75
1	AB	2611:DC	O3'	2612:DT	P	1.75
1	AB	2618:DC	O3'	2619:DT	P	1.75
1	AB	2645:DC	O3'	2646:DT	P	1.75
1	AB	2650:DC	O3'	2651:DT	P	1.75
1	AB	2669:DC	O3'	2670:DT	P	1.75
1	AB	2675:DC	O3'	2676:DT	P	1.75
1	AB	2692:DC	O3'	2693:DT	P	1.75
1	AB	2742:DC	O3'	2743:DT	P	1.75
1	AB	2823:DC	O3'	2824:DT	P	1.75
1	AB	2843:DC	O3'	2844:DT	P	1.75
1	AB	2846:DC	O3'	2847:DT	P	1.75
1	AB	2852:DC	O3'	2853:DT	P	1.75
1	AB	2897:DC	O3'	2898:DT	P	1.75
1	AB	2960:DC	O3'	2961:DT	P	1.75
1	AB	2972:DC	O3'	2973:DT	P	1.75
1	AB	2984:DC	O3'	2985:DT	P	1.75
1	AB	2992:DC	O3'	2993:DT	P	1.75
1	AB	3003:DC	O3'	3004:DT	P	1.75
1	AB	3011:DC	O3'	3012:DT	P	1.75
1	AB	3143:DC	O3'	3144:DT	P	1.75
1	AB	3146:DC	O3'	3147:DT	P	1.75
1	AB	3149:DC	O3'	3150:DT	P	1.75
1	AB	3159:DC	O3'	3160:DT	P	1.75
1	AB	3185:DC	O3'	3186:DT	P	1.75
1	AB	3191:DC	O3'	3192:DT	P	1.75
1	AB	3260:DC	O3'	3261:DT	P	1.75
1	AB	3284:DC	O3'	3285:DT	P	1.75
1	AB	3294:DC	O3'	3295:DT	P	1.75
1	AB	3296:DC	O3'	3297:DT	P	1.75
1	AB	3301:DC	O3'	3302:DT	P	1.75
1	AB	3317:DC	O3'	3318:DT	P	1.75
1	AB	3320:DC	O3'	3321:DT	P	1.75
1	AB	3340:DC	O3'	3341:DT	P	1.75
1	AB	3344:DC	O3'	3345:DT	P	1.75
1	AB	3352:DC	O3'	3353:DT	P	1.75
1	AB	3359:DC	O3'	3360:DT	P	1.75
1	AB	3425:DC	O3'	3426:DT	P	1.75
1	AB	3443:DC	O3'	3444:DT	P	1.75
1	AB	3446:DC	O3'	3447:DT	P	1.75
1	AB	3450:DC	O3'	3451:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	3452:DC	O3'	3453:DT	P	1.75
1	AB	3464:DC	O3'	3465:DT	P	1.75
1	AB	3485:DC	O3'	3486:DT	P	1.75
1	AB	3493:DC	O3'	3494:DT	P	1.75
1	AB	3498:DC	O3'	3499:DT	P	1.75
1	AB	3500:DC	O3'	3501:DT	P	1.75
1	AB	3509:DC	O3'	3510:DT	P	1.75
1	AB	3512:DC	O3'	3513:DT	P	1.75
1	AB	3515:DC	O3'	3516:DT	P	1.75
1	AB	3556:DC	O3'	3557:DT	P	1.75
1	AB	3616:DC	O3'	3617:DT	P	1.75
1	AB	3622:DC	O3'	3623:DT	P	1.75
1	AB	3645:DC	O3'	3646:DT	P	1.75
1	AB	3647:DC	O3'	3648:DT	P	1.75
1	AB	3674:DC	O3'	3675:DT	P	1.75
1	AB	3686:DC	O3'	3687:DT	P	1.75
1	AB	3695:DC	O3'	3696:DT	P	1.75
1	AB	3764:DC	O3'	3765:DT	P	1.75
1	AB	3776:DC	O3'	3777:DT	P	1.75
1	AB	3793:DC	O3'	3794:DT	P	1.75
1	AB	3827:DC	O3'	3828:DT	P	1.75
1	AB	3830:DC	O3'	3831:DT	P	1.75
1	AB	3833:DC	O3'	3834:DT	P	1.75
1	AB	3854:DC	O3'	3855:DT	P	1.75
1	AB	3872:DC	O3'	3873:DT	P	1.75
1	AB	3902:DC	O3'	3903:DT	P	1.75
1	AB	3904:DC	O3'	3905:DT	P	1.75
1	AB	3923:DC	O3'	3924:DT	P	1.75
1	AB	3938:DC	O3'	3939:DT	P	1.75
1	AB	3941:DC	O3'	3942:DT	P	1.75
1	AB	3950:DC	O3'	3951:DT	P	1.75
1	AB	3977:DC	O3'	3978:DT	P	1.75
1	AB	3988:DC	O3'	3989:DT	P	1.75
1	AB	3991:DC	O3'	3992:DT	P	1.75
1	AB	3999:DC	O3'	4000:DT	P	1.75
1	AB	4005:DC	O3'	4006:DT	P	1.75
1	AB	4007:DC	O3'	4008:DT	P	1.75
1	AB	4066:DC	O3'	4067:DT	P	1.75
1	AB	4119:DC	O3'	4120:DT	P	1.75
1	AB	4124:DC	O3'	4125:DT	P	1.75
1	AB	4136:DC	O3'	4137:DT	P	1.75
1	AB	4146:DC	O3'	4147:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	4149:DC	O3'	4150:DT	P	1.75
1	AB	4155:DC	O3'	4156:DT	P	1.75
1	AB	4172:DC	O3'	4173:DT	P	1.75
1	AB	4189:DC	O3'	4190:DT	P	1.75
1	AB	4242:DC	O3'	4243:DT	P	1.75
1	AB	4253:DC	O3'	4254:DT	P	1.75
1	AB	4268:DC	O3'	4269:DT	P	1.75
1	AB	4287:DC	O3'	4288:DA	P	1.75
1	AB	4325:DC	O3'	4326:DT	P	1.75
1	AB	4360:DC	O3'	4361:DT	P	1.75
1	AB	4373:DC	O3'	4374:DT	P	1.75
1	AB	4384:DC	O3'	4385:DT	P	1.75
1	AB	4395:DC	O3'	4396:DT	P	1.75
1	AB	4401:DC	O3'	4402:DT	P	1.75
1	AB	4464:DC	O3'	4465:DT	P	1.75
1	AB	4467:DC	O3'	4468:DT	P	1.75
1	AB	4494:DC	O3'	4495:DT	P	1.75
1	AB	4500:DC	O3'	4501:DT	P	1.75
1	AB	4502:DC	O3'	4503:DT	P	1.75
1	AB	4533:DC	O3'	4534:DT	P	1.75
1	AB	4544:DC	O3'	4545:DT	P	1.75
1	AB	4548:DC	O3'	4549:DT	P	1.75
1	AB	4592:DC	O3'	4593:DT	P	1.75
1	AB	4594:DC	O3'	4595:DT	P	1.75
1	AB	4626:DC	O3'	4627:DT	P	1.75
1	AB	4647:DC	O3'	4648:DT	P	1.75
1	AB	4690:DC	O3'	4691:DT	P	1.75
1	AB	4712:DC	O3'	4713:DT	P	1.75
1	AB	4719:DC	O3'	4720:DT	P	1.75
1	AB	4726:DC	O3'	4727:DT	P	1.75
1	AB	4733:DC	O3'	4734:DT	P	1.75
1	AB	4829:DC	O3'	4830:DT	P	1.75
1	AB	4855:DC	O3'	4856:DT	P	1.75
1	AB	4862:DC	O3'	4863:DT	P	1.75
1	AB	4922:DC	O3'	4923:DT	P	1.75
1	AB	4938:DC	O3'	4939:DT	P	1.75
1	AB	4948:DC	O3'	4949:DT	P	1.75
1	AB	5003:DC	O3'	5004:DT	P	1.75
1	AB	5020:DC	O3'	5021:DT	P	1.75
1	AB	5063:DC	O3'	5064:DT	P	1.75
1	AB	5079:DC	O3'	5080:DT	P	1.75
1	AB	5091:DC	O3'	5092:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	5110:DC	O3'	5111:DT	P	1.75
1	AB	5140:DC	O3'	5141:DT	P	1.75
1	AB	5155:DC	O3'	5156:DT	P	1.75
1	AB	5212:DC	O3'	5213:DT	P	1.75
1	AB	5216:DC	O3'	5217:DT	P	1.75
1	AB	5239:DC	O3'	5240:DT	P	1.75
1	AB	5243:DC	O3'	5244:DT	P	1.75
1	AB	5302:DC	O3'	5303:DT	P	1.75
1	AB	5376:DC	O3'	5377:DT	P	1.75
1	AB	5380:DC	O3'	5381:DT	P	1.75
1	AB	5392:DC	O3'	5393:DT	P	1.75
1	AB	5397:DC	O3'	5398:DT	P	1.75
1	AB	5459:DC	O3'	5460:DT	P	1.75
1	AB	5461:DC	O3'	5462:DT	P	1.75
1	AB	5469:DC	O3'	5470:DT	P	1.75
1	AB	5491:DC	O3'	5492:DT	P	1.75
1	AB	5499:DC	O3'	5500:DT	P	1.75
1	AB	5509:DC	O3'	5510:DT	P	1.75
1	AB	5511:DC	O3'	5512:DT	P	1.75
1	AB	5522:DC	O3'	5523:DT	P	1.75
1	AB	5527:DC	O3'	5528:DT	P	1.75
1	AB	5529:DC	O3'	5530:DT	P	1.75
1	AB	5585:DC	O3'	5586:DT	P	1.75
1	AB	5589:DC	O3'	5590:DT	P	1.75
1	AB	5596:DC	O3'	5597:DT	P	1.75
1	AB	5600:DC	O3'	5601:DT	P	1.75
1	AB	5606:DC	O3'	5607:DT	P	1.75
1	AB	5663:DC	O3'	5664:DT	P	1.75
1	AB	5696:DC	O3'	5697:DT	P	1.75
1	AB	5699:DC	O3'	5700:DT	P	1.75
1	AB	5783:DC	O3'	5784:DT	P	1.75
1	AB	5789:DC	O3'	5790:DT	P	1.75
1	AB	5795:DC	O3'	5796:DT	P	1.75
1	AB	5800:DC	O3'	5801:DT	P	1.75
1	AB	5828:DC	O3'	5829:DT	P	1.75
1	AB	5853:DC	O3'	5854:DT	P	1.75
1	AB	5861:DC	O3'	5862:DT	P	1.75
1	AB	5918:DC	O3'	5919:DT	P	1.75
1	AB	5930:DC	O3'	5931:DT	P	1.75
1	AB	5936:DC	O3'	5937:DT	P	1.75
1	AB	5939:DC	O3'	5940:DT	P	1.75
1	AB	5963:DC	O3'	5964:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	5981:DC	O3'	5982:DT	P	1.75
1	AB	5996:DC	O3'	5997:DT	P	1.75
1	AB	6051:DC	O3'	6052:DT	P	1.75
1	AB	6053:DC	O3'	6054:DT	P	1.75
1	AB	6075:DC	O3'	6076:DT	P	1.75
1	AB	6077:DC	O3'	6078:DT	P	1.75
1	AB	6103:DC	O3'	6104:DT	P	1.75
1	AB	6118:DC	O3'	6119:DT	P	1.75
1	AB	6131:DC	O3'	6132:DT	P	1.75
1	AB	6155:DC	O3'	6156:DT	P	1.75
1	AB	6182:DC	O3'	6183:DT	P	1.75
1	AB	6196:DC	O3'	6197:DT	P	1.75
1	AB	6219:DC	O3'	6220:DT	P	1.75
1	AB	6227:DC	O3'	6228:DT	P	1.75
1	AB	6231:DC	O3'	6232:DT	P	1.75
1	AB	6253:DC	O3'	6254:DT	P	1.75
1	AB	6276:DC	O3'	6277:DT	P	1.75
1	AB	6284:DC	O3'	6285:DT	P	1.75
1	AB	6350:DC	O3'	6351:DT	P	1.75
1	AB	6359:DC	O3'	6360:DT	P	1.75
1	AB	6383:DC	O3'	6384:DT	P	1.75
1	AB	6408:DC	O3'	6409:DT	P	1.75
1	AB	6410:DC	O3'	6411:DT	P	1.75
1	AB	6414:DC	O3'	6415:DT	P	1.75
1	AB	6470:DC	O3'	6471:DT	P	1.75
1	AB	6476:DC	O3'	6477:DT	P	1.75
1	AB	6486:DC	O3'	6487:DT	P	1.75
1	AB	6503:DC	O3'	6504:DT	P	1.75
1	AB	6527:DC	O3'	6528:DT	P	1.75
1	AB	6533:DC	O3'	6534:DT	P	1.75
1	AB	6547:DC	O3'	6548:DT	P	1.75
1	AB	6551:DC	O3'	6552:DT	P	1.75
1	AB	6555:DC	O3'	6556:DT	P	1.75
1	AB	6614:DC	O3'	6615:DT	P	1.75
1	AB	6637:DC	O3'	6638:DT	P	1.75
1	AB	6688:DC	O3'	6689:DT	P	1.75
1	AB	6712:DC	O3'	6713:DT	P	1.75
1	AB	6721:DC	O3'	6722:DT	P	1.75
1	AB	6736:DC	O3'	6737:DT	P	1.75
1	AB	6744:DC	O3'	6745:DT	P	1.75
1	AB	6756:DC	O3'	6757:DT	P	1.75
1	AB	6792:DC	O3'	6793:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AB	6797:DC	O3'	6798:DA	P	1.75
1	AB	6805:DC	O3'	6806:DT	P	1.75
1	AB	6807:DC	O3'	6808:DT	P	1.75
1	AB	6840:DC	O3'	6841:DT	P	1.75
1	AB	6860:DC	O3'	6861:DT	P	1.75
1	AB	6862:DC	O3'	6863:DT	P	1.75
1	AB	6888:DC	O3'	6889:DT	P	1.75
1	AB	6903:DC	O3'	6904:DT	P	1.75
1	AB	6909:DC	O3'	6910:DT	P	1.75
1	AB	6919:DC	O3'	6920:DT	P	1.75
1	AB	6978:DC	O3'	6979:DT	P	1.75
1	AB	7045:DC	O3'	7046:DT	P	1.75
1	AB	7052:DC	O3'	7053:DT	P	1.75
1	AB	7054:DC	O3'	7055:DT	P	1.75
1	AB	7074:DC	O3'	7075:DT	P	1.75
1	AB	7114:DC	O3'	7115:DT	P	1.75
1	AB	7118:DC	O3'	7119:DT	P	1.75
1	AB	7149:DC	O3'	7150:DT	P	1.75
1	AB	7166:DC	O3'	7167:DT	P	1.75
1	AB	7182:DC	O3'	7183:DT	P	1.75
1	AB	7188:DC	O3'	7189:DT	P	1.75
1	AB	7191:DC	O3'	7192:DT	P	1.75
1	AB	7219:DC	O3'	7220:DT	P	1.75
1	AB	7225:DC	O3'	7226:DT	P	1.75
1	AB	7229:DC	O3'	7230:DT	P	1.75
1	AB	7237:DC	O3'	7238:DT	P	1.75
1	B1	34:DC	O3'	35:DT	P	1.75
1	B4	20:DC	O3'	21:DT	P	1.75
1	B5	17:DC	O3'	18:DT	P	1.75
1	B7	19:DC	O3'	20:DA	P	1.75
1	B9	6:DC	O3'	7:DT	P	1.75
1	B9	20:DC	O3'	21:DT	P	1.75
1	BA	27:DC	O3'	28:DT	P	1.75
1	BC	31:DC	O3'	32:DT	P	1.75
1	C1	14:DC	O3'	15:DT	P	1.75
1	C2	12:DC	O3'	13:DT	P	1.75
1	C2	21:DC	O3'	22:DT	P	1.75
1	C5	23:DC	O3'	24:DT	P	1.75
1	C6	12:DC	O3'	13:DT	P	1.75
1	C6	26:DC	O3'	27:DT	P	1.75
1	C7	6:DC	O3'	7:DT	P	1.75
1	C7	17:DC	O3'	18:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C8	44:DC	O3'	45:DT	P	1.75
1	CA	15:DC	O3'	16:DT	P	1.75
1	CC	12:DC	O3'	13:DT	P	1.75
1	CC	15:DC	O3'	16:DT	P	1.75
1	D1	34:DC	O3'	35:DT	P	1.75
1	D1	37:DC	O3'	38:DT	P	1.75
1	D3	6:DC	O3'	7:DT	P	1.75
1	D6	6:DC	O3'	7:DT	P	1.75
1	D6	16:DC	O3'	17:DT	P	1.75
1	D6	36:DC	O3'	37:DT	P	1.75
1	D6	45:DC	O3'	46:DT	P	1.75
1	D8	18:DC	O3'	19:DT	P	1.75
1	D8	29:DC	O3'	30:DT	P	1.75
1	D9	10:DC	O3'	11:DT	P	1.75
1	D9	19:DC	O3'	20:DT	P	1.75
1	DC	9:DC	O3'	10:DT	P	1.75
1	DC	21:DC	O3'	22:DT	P	1.75
1	E2	24:DC	O3'	25:DT	P	1.75
1	E5	26:DC	O3'	27:DT	P	1.75
1	E8	18:DC	O3'	19:DT	P	1.75
1	E8	21:DC	O3'	22:DT	P	1.75
1	E9	23:DC	O3'	24:DT	P	1.75
1	EC	16:DC	O3'	17:DT	P	1.75
1	F1	11:DC	O3'	12:DT	P	1.75
1	F2	7:DC	O3'	8:DT	P	1.75
1	F2	29:DC	O3'	30:DT	P	1.75
1	F5	7:DC	O3'	8:DT	P	1.75
1	F5	20:DC	O3'	21:DT	P	1.75
1	F7	12:DC	O3'	13:DT	P	1.75
1	F8	1:DC	O3'	2:DT	P	1.75
1	FA	29:DC	O3'	30:DT	P	1.75
1	FD	32:DC	O3'	33:DT	P	1.75
1	G1	3:DC	O3'	4:DT	P	1.75
1	G2	6:DC	O3'	7:DT	P	1.75
1	G3	2:DC	O3'	3:DT	P	1.75
1	G3	15:DC	O3'	16:DT	P	1.75
1	G5	3:DC	O3'	4:DT	P	1.75
1	G6	22:DC	O3'	23:DT	P	1.75
1	H2	6:DC	O3'	7:DT	P	1.75
1	H2	25:DC	O3'	26:DT	P	1.75
1	H2	32:DC	O3'	33:DT	P	1.75
1	H2	44:DC	O3'	45:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	H3	2:DC	O3'	3:DT	P	1.75
1	H3	6:DC	O3'	7:DT	P	1.75
1	H3	16:DC	O3'	17:DT	P	1.75
1	H5	29:DC	O3'	30:DT	P	1.75
1	H5	36:DC	O3'	37:DT	P	1.75
1	H6	24:DC	O3'	25:DT	P	1.75
1	HC	5:DC	O3'	6:DT	P	1.75
1	HC	19:DC	O3'	20:DT	P	1.75
1	I1	24:DC	O3'	25:DT	P	1.75
1	I2	26:DC	O3'	27:DT	P	1.75
1	I2	43:DC	O3'	44:DT	P	1.75
1	I2	46:DC	O3'	47:DT	P	1.75
1	I8	26:DC	O3'	27:DT	P	1.75
1	I9	7:DC	O3'	8:DT	P	1.75
1	IA	11:DC	O3'	12:DT	P	1.75
1	IC	23:DC	O3'	24:DT	P	1.75
1	J2	18:DC	O3'	19:DT	P	1.75
1	J3	16:DC	O3'	17:DT	P	1.75
1	J5	8:DC	O3'	9:DT	P	1.75
1	J7	16:DC	O3'	17:DT	P	1.75
1	J9	7:DC	O3'	8:DT	P	1.75
1	J9	21:DC	O3'	22:DT	P	1.75
1	JA	15:DC	O3'	16:DT	P	1.75
1	JC	13:DC	O3'	14:DT	P	1.75
1	K1	8:DC	O3'	9:DT	P	1.75
1	K1	39:DC	O3'	40:DT	P	1.75
1	K1	42:DC	O3'	43:DT	P	1.75
1	K5	10:DC	O3'	11:DT	P	1.75
1	K5	29:DC	O3'	30:DT	P	1.75
1	K9	21:DC	O3'	22:DT	P	1.75
1	KA	6:DC	O3'	7:DT	P	1.75
1	KA	8:DC	O3'	9:DT	P	1.75
1	KD	4:DC	O3'	5:DT	P	1.75
1	KD	7:DC	O3'	8:DT	P	1.75
1	L1	37:DC	O3'	38:DT	P	1.75
1	L1	41:DC	O3'	42:DA	P	1.75
1	L2	8:DC	O3'	9:DT	P	1.75
1	L3	5:DC	O3'	6:DT	P	1.75
1	L3	17:DC	O3'	18:DT	P	1.75
1	L5	6:DC	O3'	7:DT	P	1.75
1	L6	21:DC	O3'	22:DT	P	1.75
1	LA	7:DC	O3'	8:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	M2	1:DC	O3'	2:DT	P	1.75
1	M5	30:DC	O3'	31:DT	P	1.75
1	M5	37:DC	O3'	38:DT	P	1.75
1	M6	5:DC	O3'	6:DT	P	1.75
1	M7	9:DC	O3'	10:DT	P	1.75
1	M8	19:DC	O3'	20:DT	P	1.75
1	M8	27:DC	O3'	28:DT	P	1.75
1	MA	15:DC	O3'	16:DT	P	1.75
1	MA	32:DC	O3'	33:DT	P	1.75
1	MC	19:DC	O3'	20:DT	P	1.75
1	N3	13:DC	O3'	14:DT	P	1.75
1	N3	26:DC	O3'	27:DT	P	1.75
1	N5	24:DC	O3'	25:DT	P	1.75
1	N6	3:DC	O3'	4:DT	P	1.75
1	N8	7:DC	O3'	8:DT	P	1.75
1	N9	27:DC	O3'	28:DT	P	1.75
1	NC	2:DC	O3'	3:DT	P	1.75
1	NC	32:DC	O3'	33:DT	P	1.75
1	O2	8:DC	O3'	9:DT	P	1.75
1	O2	12:DC	O3'	13:DT	P	1.75
1	O2	33:DC	O3'	34:DT	P	1.75
1	O5	51:DC	O3'	52:DT	P	1.75
1	O6	16:DC	O3'	17:DT	P	1.75
1	O7	14:DC	O3'	15:DT	P	1.75
1	O8	17:DC	O3'	18:DT	P	1.75
1	O9	8:DC	O3'	9:DT	P	1.75
1	O9	18:DC	O3'	19:DT	P	1.75
1	OA	14:DC	O3'	15:DT	P	1.75
1	OC	8:DC	O3'	9:DA	P	1.75
1	P2	33:DC	O3'	34:DT	P	1.75
1	P3	23:DC	O3'	24:DT	P	1.75
1	P3	33:DC	O3'	34:DT	P	1.75
1	P7	7:DC	O3'	8:DT	P	1.75
1	P8	7:DC	O3'	8:DT	P	1.75
1	P8	12:DC	O3'	13:DT	P	1.75
1	P9	17:DC	O3'	18:DT	P	1.75
1	P9	22:DC	O3'	23:DT	P	1.75
1	P9	26:DC	O3'	27:DT	P	1.75
1	Q3	9:DC	O3'	10:DT	P	1.75
1	Q5	12:DC	O3'	13:DT	P	1.75
1	Q8	22:DC	O3'	23:DT	P	1.75
1	Q9	7:DC	O3'	8:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Q9	22:DC	O3'	23:DT	P	1.75
1	QC	5:DC	O3'	6:DT	P	1.75
1	R2	13:DC	O3'	14:DT	P	1.75
1	R3	15:DC	O3'	16:DT	P	1.75
1	R3	20:DC	O3'	21:DT	P	1.75
1	R5	12:DC	O3'	13:DT	P	1.75
1	R5	31:DC	O3'	32:DT	P	1.75
1	R7	31:DC	O3'	32:DT	P	1.75
1	R8	8:DC	O3'	9:DT	P	1.75
1	R8	16:DC	O3'	17:DT	P	1.75
1	RC	21:DC	O3'	22:DT	P	1.75
1	S3	3:DC	O3'	4:DT	P	1.75
1	S5	24:DC	O3'	25:DT	P	1.75
1	S7	13:DC	O3'	14:DT	P	1.75
1	S7	21:DC	O3'	22:DT	P	1.75
1	S8	6:DC	O3'	7:DT	P	1.75
1	S8	37:DC	O3'	38:DT	P	1.75
1	SD	12:DC	O3'	13:DT	P	1.75
1	T2	5:DC	O3'	6:DT	P	1.75
1	T3	15:DC	O3'	16:DT	P	1.75
1	T5	6:DC	O3'	7:DT	P	1.75
1	T5	18:DC	O3'	19:DT	P	1.75
1	T7	3:DC	O3'	4:DT	P	1.75
1	T7	13:DC	O3'	14:DT	P	1.75
1	T8	17:DC	O3'	18:DT	P	1.75
1	T9	9:DC	O3'	10:DT	P	1.75
1	T9	18:DC	O3'	19:DT	P	1.75
1	T9	21:DC	O3'	22:DT	P	1.75
1	TA	22:DC	O3'	23:DT	P	1.75
1	TC	6:DC	O3'	7:DT	P	1.75
1	TC	12:DC	O3'	13:DT	P	1.75
1	U2	5:DC	O3'	6:DT	P	1.75
1	U2	17:DC	O3'	18:DT	P	1.75
1	U3	20:DC	O3'	21:DT	P	1.75
1	U5	10:DC	O3'	11:DT	P	1.75
1	U5	22:DC	O3'	23:DT	P	1.75
1	U7	12:DC	O3'	13:DT	P	1.75
1	U7	19:DC	O3'	20:DT	P	1.75
1	U8	21:DC	O3'	22:DT	P	1.75
1	U9	12:DC	O3'	13:DT	P	1.75
1	UC	6:DC	O3'	7:DT	P	1.75
1	UD	1:DC	O3'	2:DT	P	1.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	UD	10:DC	O3'	11:DT	P	1.75
1	V2	1:DC	O3'	2:DT	P	1.75
1	V5	23:DC	O3'	24:DT	P	1.75
1	V7	6:DC	O3'	7:DT	P	1.75
1	VA	8:DC	O3'	9:DT	P	1.75
1	VA	27:DC	O3'	28:DT	P	1.75
1	W3	7:DC	O3'	8:DT	P	1.75
1	W3	31:DC	O3'	32:DT	P	1.75
1	W5	14:DC	O3'	15:DT	P	1.75
1	W8	19:DC	O3'	20:DT	P	1.75
1	X9	5:DC	O3'	6:DT	P	1.75

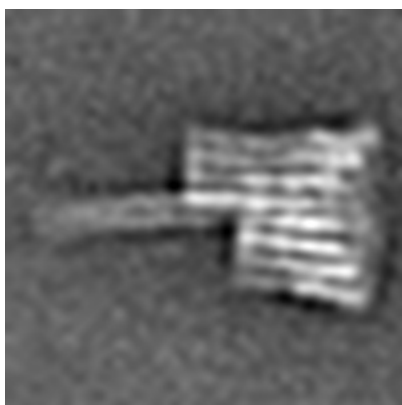
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-12188. These allow visual inspection of the internal detail of the map and identification of artifacts.

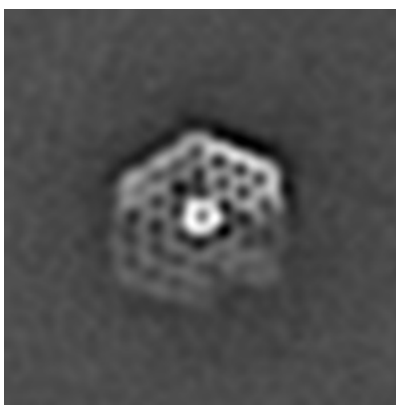
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

#### 6.1.1 Primary map



X



Y

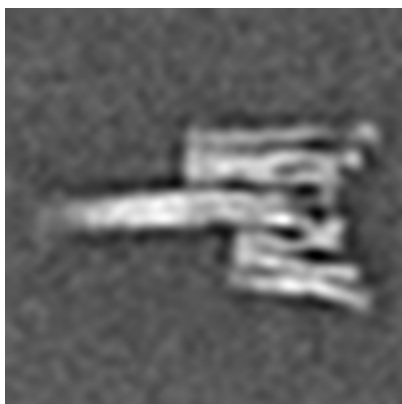


Z

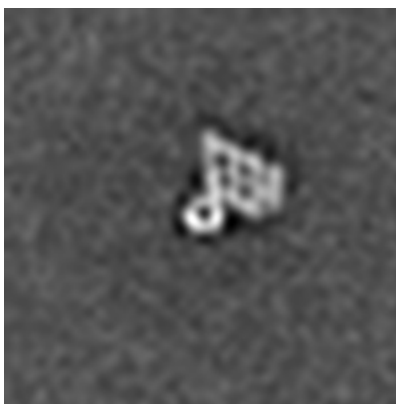
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

#### 6.2.1 Primary map



X Index: 24



Y Index: 24

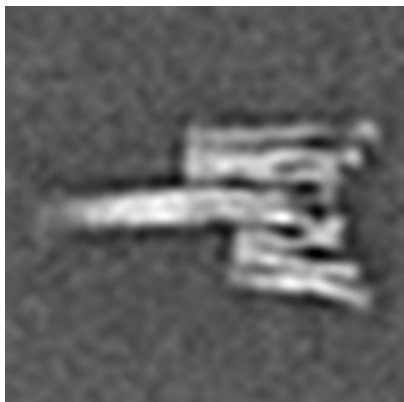


Z Index: 24

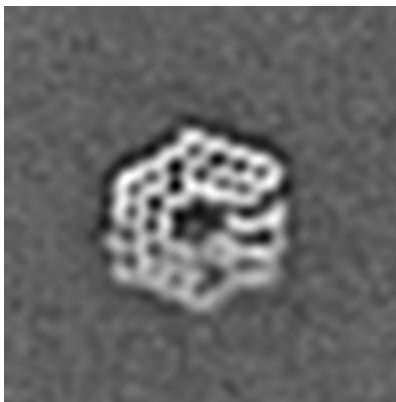
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

### 6.3.1 Primary map



X Index: 24



Y Index: 38



Z Index: 22

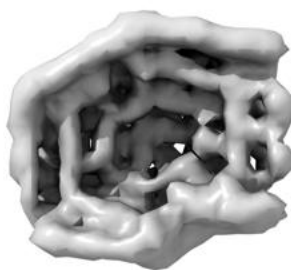
The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal surface views [i](#)

### 6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.219. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

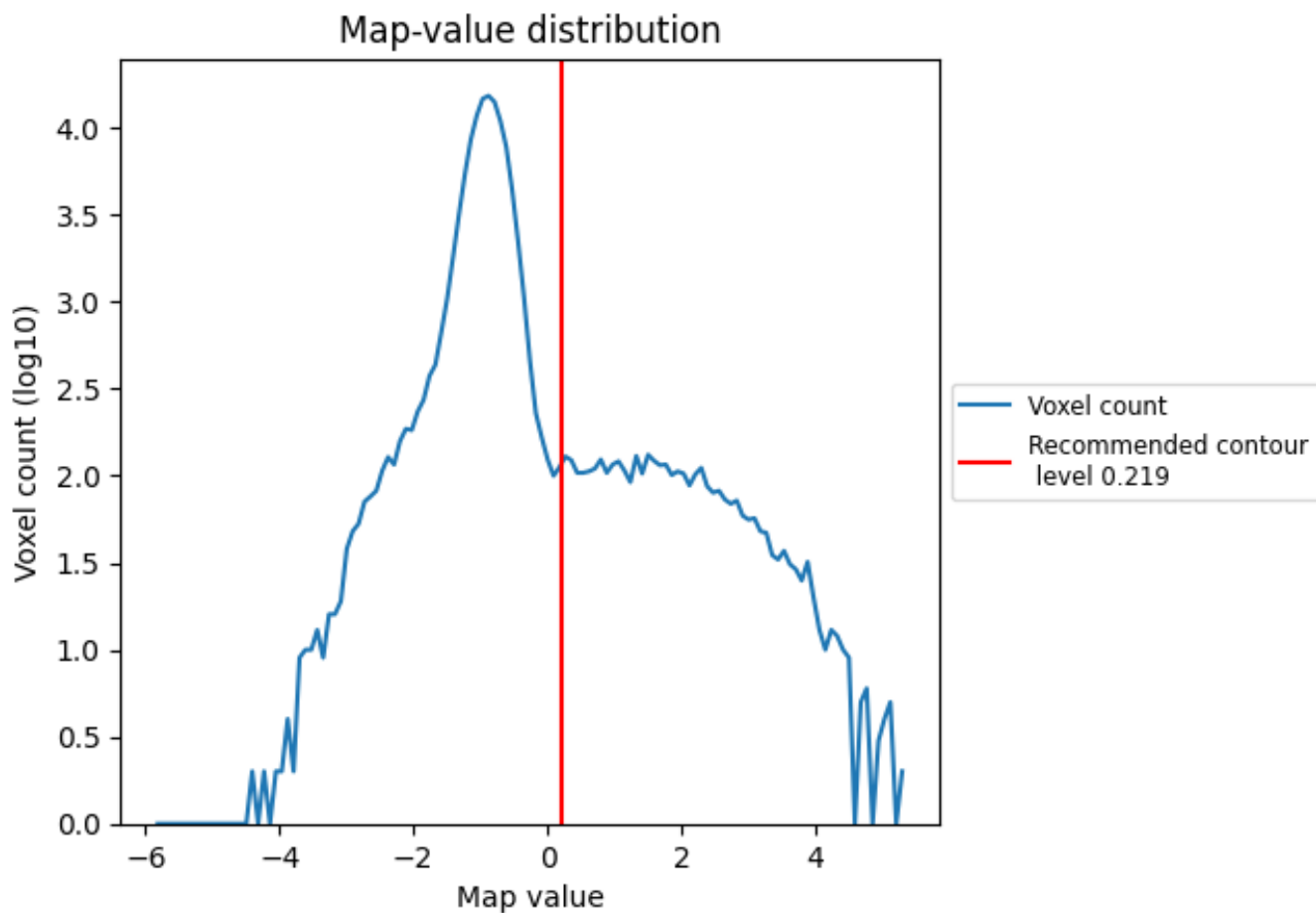
## 6.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

## 7 Map analysis [i](#)

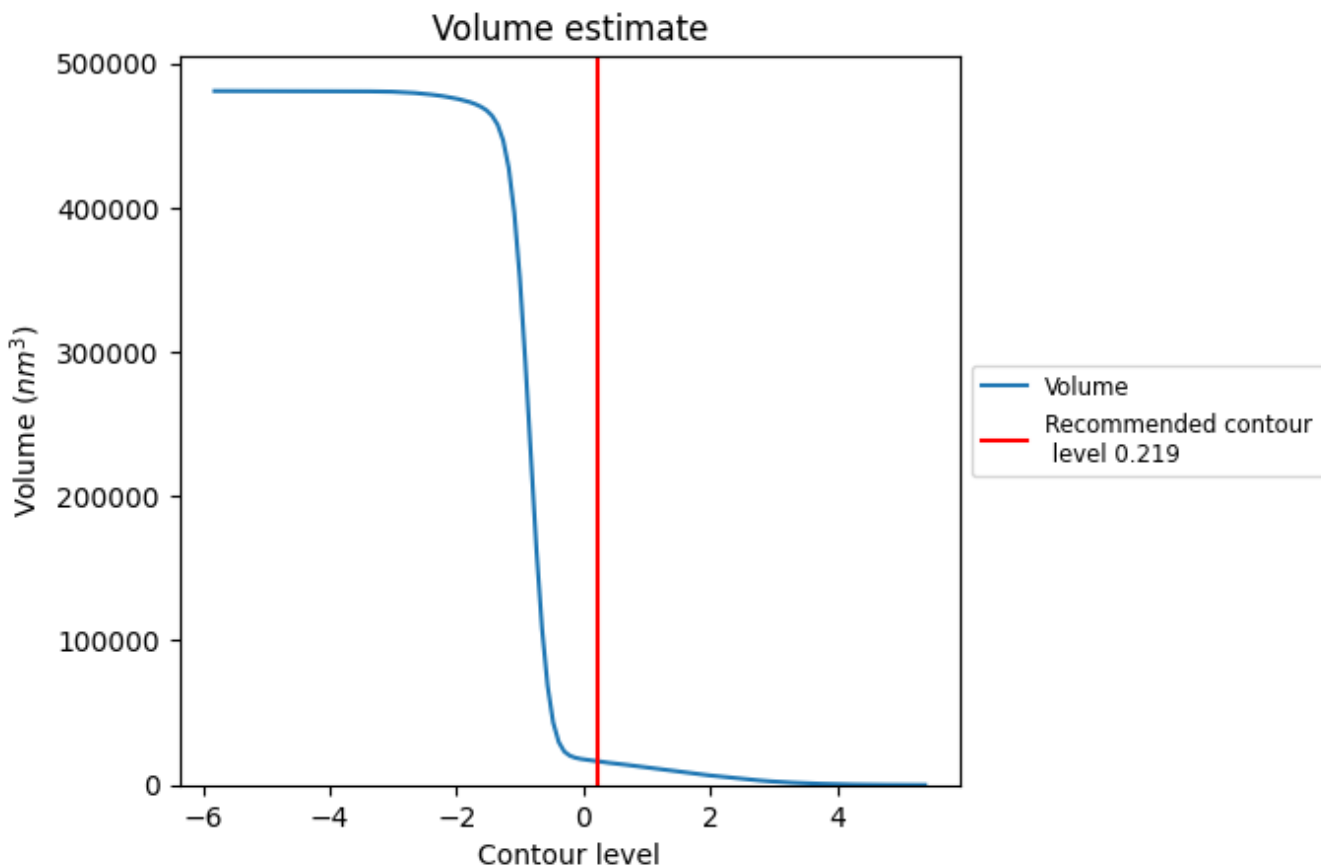
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

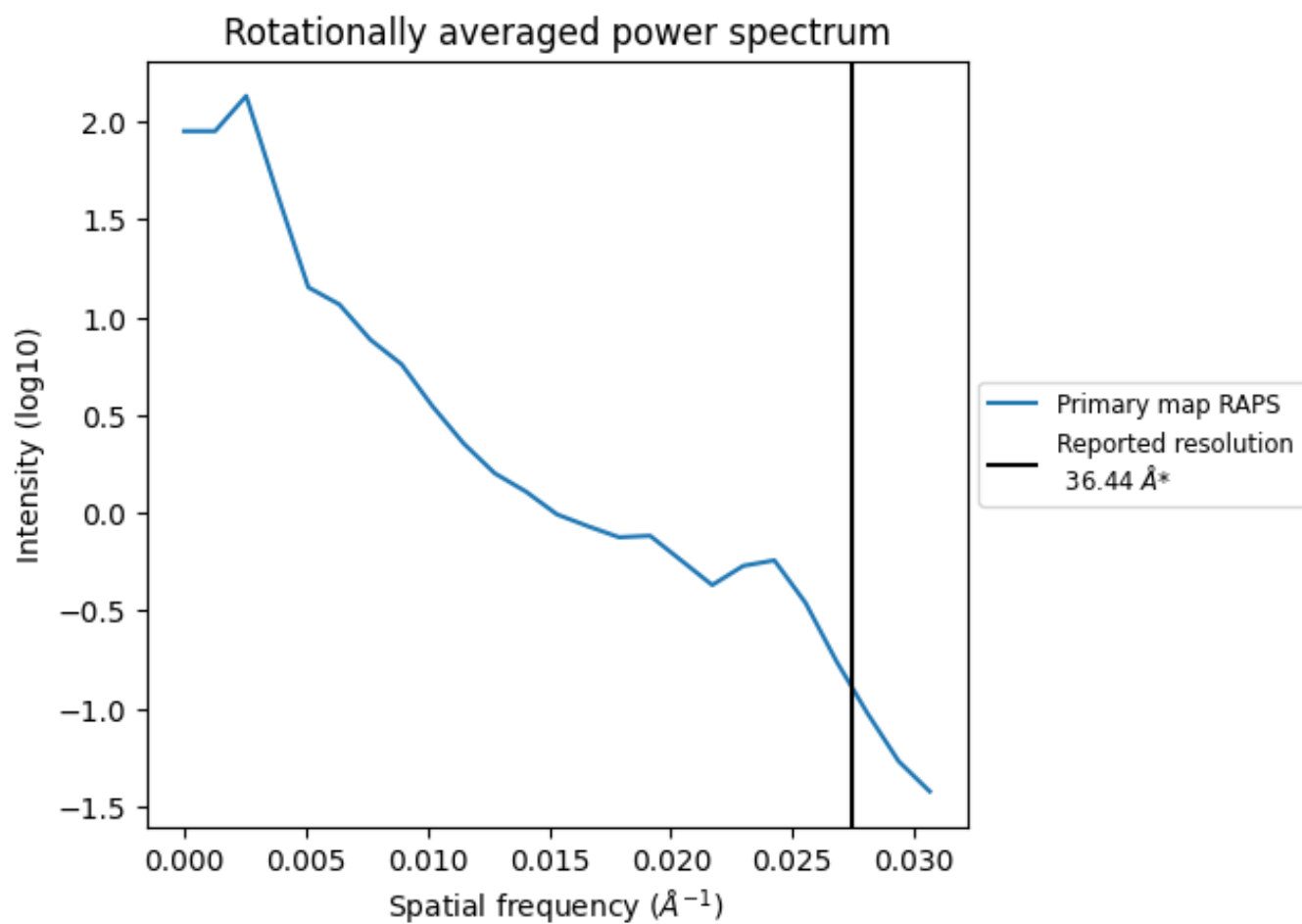
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 16515 nm<sup>3</sup>; this corresponds to an approximate mass of 14919 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

### 7.3 Rotationally averaged power spectrum [i](#)



\*Reported resolution corresponds to spatial frequency of 0.027 Å<sup>-1</sup>

## 8 Fourier-Shell correlation

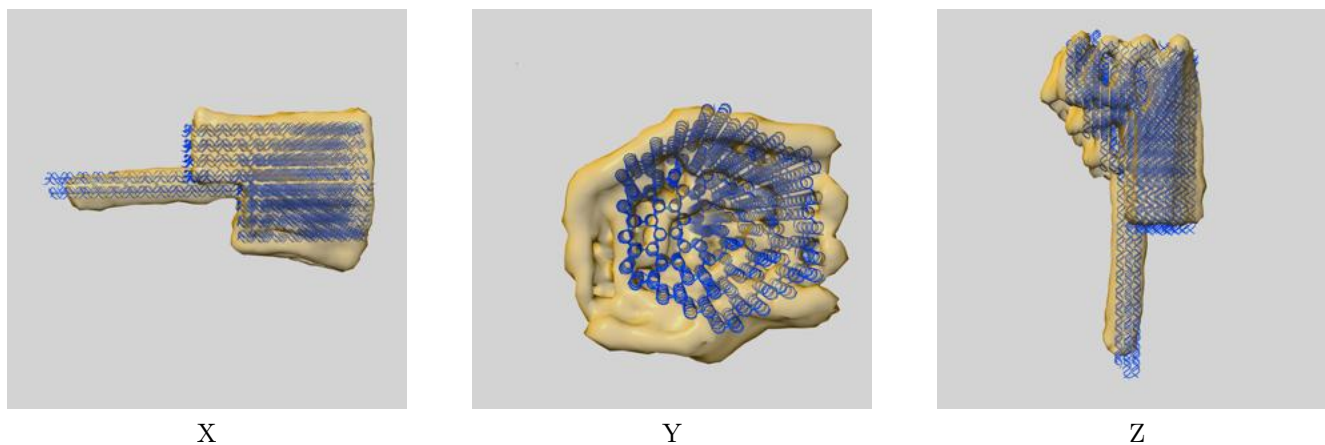
This section was not generated. No FSC curve or half-maps provided.



## 9 Map-model fit [i](#)

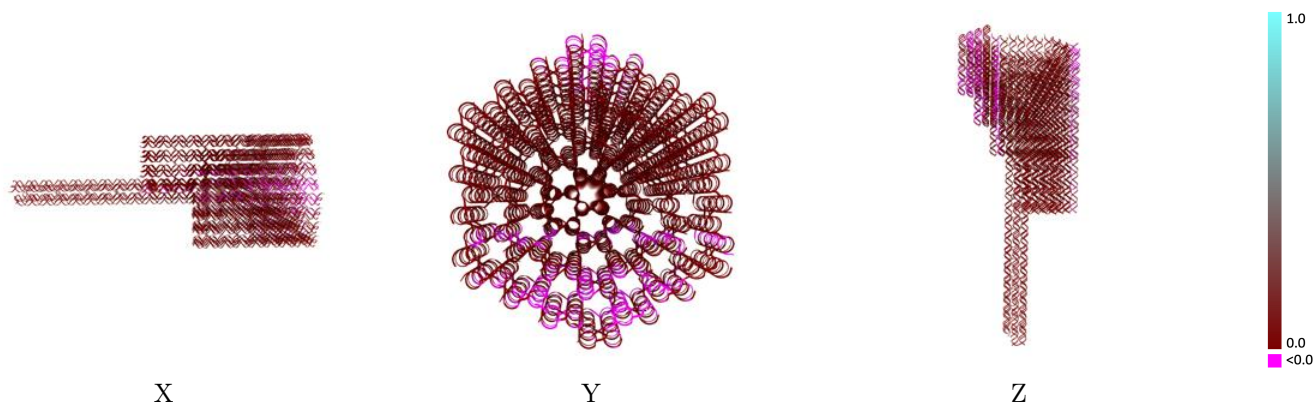
This section contains information regarding the fit between EMDB map EMD-12188 and PDB model 7BHO. Per-residue inclusion information can be found in section [3](#) on page [48](#).

### 9.1 Map-model overlay [i](#)



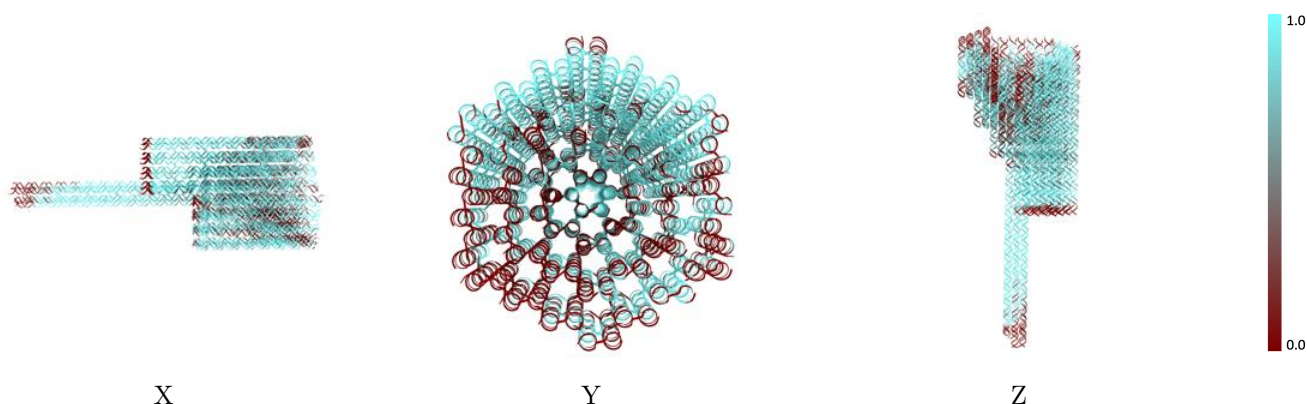
The images above show the 3D surface view of the map at the recommended contour level 0.219 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



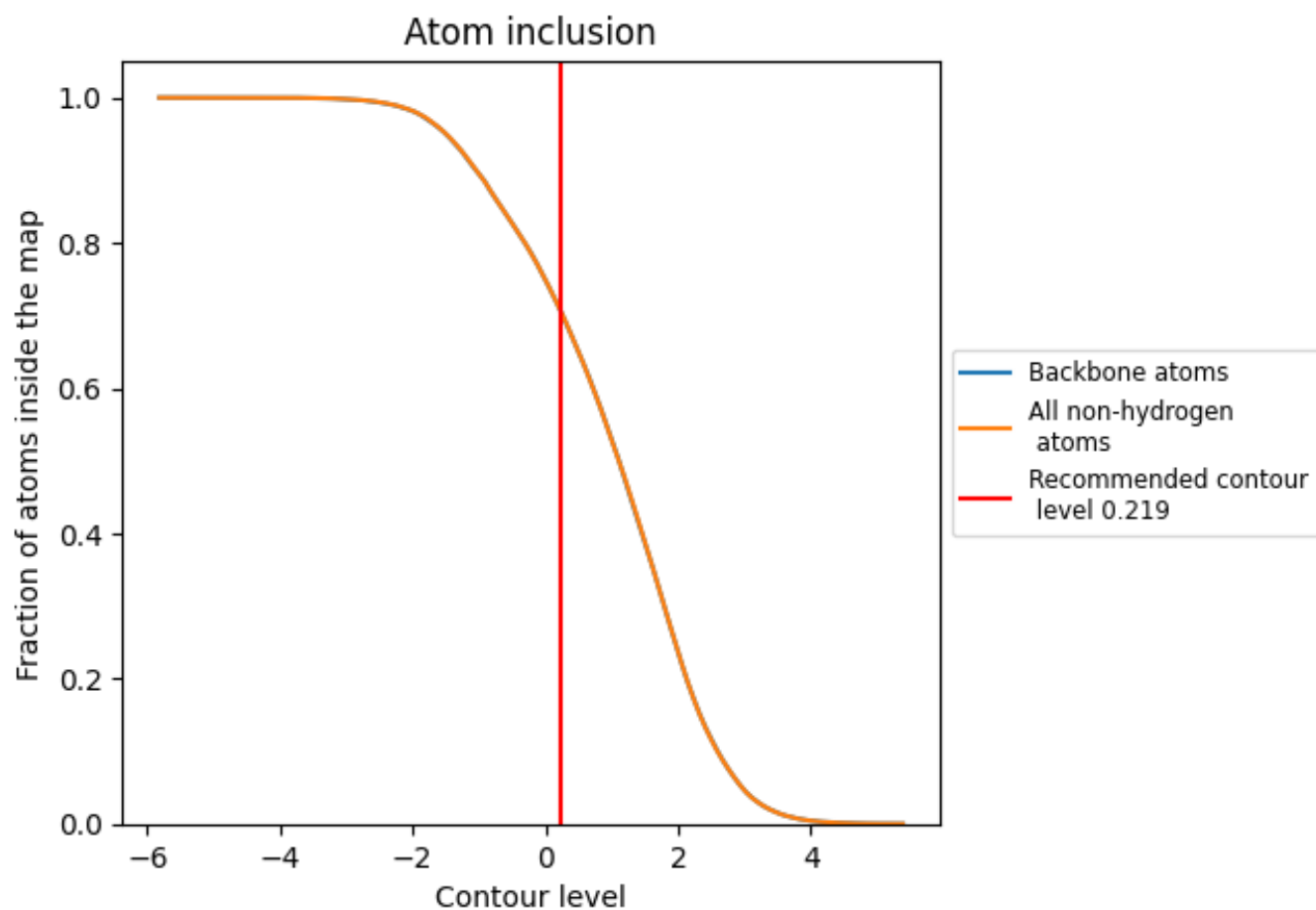
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.219).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 71% of all backbone atoms, 71% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary





















































































The table lists the average atom inclusion at the recommended contour level (0.219) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7085	0.0000
A1	0.9837	0.0000
A2	0.8915	0.0000
A3	0.6469	0.0100
A4	0.5035	-0.0080
A5	1.0000	0.0000
A6	0.7439	0.0000
A7	0.8373	0.0000
A8	0.6452	0.0000
A9	0.9519	0.0000
AA	0.4559	-0.0150
AB	0.7088	0.0000
AC	0.9973	0.0000
AD	0.8705	0.0070
B1	0.9828	0.0000
B2	0.1432	0.0000
B3	0.3005	0.0000
B4	0.0000	0.0000
B5	0.8716	-0.0010
B6	0.8178	0.0000
B7	0.7713	0.0000
B8	0.5499	0.0000
B9	0.2841	-0.0040
BA	0.0000	0.0080
BC	0.3385	0.0000
BD	0.0000	-0.0030
C1	0.8223	0.0000
C2	0.6125	0.0000
C3	0.5294	-0.0100
C5	0.7002	0.0000
C6	0.9634	0.0000
C7	0.7979	0.0000
C8	0.8384	0.0000
C9	0.7388	0.0000
CA	0.2526	-0.0200























































































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Chain	Atom inclusion	Q-score
CC	 0.1861	 -0.0240
CD	 0.7129	 0.0000
D1	 1.0000	 0.0000
D2	 0.8184	 0.0000
D3	 0.9843	 0.0050
D5	 0.0000	 0.0000
D6	 0.9375	 0.0000
D7	 1.0000	 0.0000
D8	 0.9968	 0.0000
D9	 0.4968	 0.0000
DA	 0.9937	 -0.0010
DC	 0.3469	 -0.0010
DD	 0.8432	 0.0000
E1	 0.7415	 0.0000
E2	 0.9773	 0.0000
E3	 0.9464	 0.0240
E5	 0.6942	 0.0000
E6	 0.7483	 0.0000
E7	 0.9899	 0.0000
E8	 0.8183	 0.0050
E9	 0.9289	 0.0000
EA	 0.1077	 -0.0100
EC	 0.0400	 0.0000
ED	 0.4557	 0.0000
F1	 0.8812	 0.0000
F2	 0.9818	 0.0000
F3	 0.9495	 -0.0070
F5	 0.9609	 0.0000
F6	 0.1631	 0.0000
F7	 0.9665	 0.0000
F8	 0.4863	 0.0050
F9	 0.3342	 0.0000
FA	 0.5204	 -0.0040
FC	 0.5443	 0.0080
FD	 0.7984	 -0.0110
G1	 0.5347	 0.0000
G2	 0.2147	 0.0000
G3	 0.8739	 -0.0040
G5	 1.0000	 0.0000
G6	 0.9838	 0.0000
G7	 1.0000	 0.0000
G8	 0.6099	 -0.0090





















































































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Chain	Atom inclusion	Q-score
G9	 0.5861	 0.0000
GA	 0.2025	 0.0000
GC	 0.5850	 0.0200
GD	 0.9067	 0.0000
H1	 0.6230	 0.0000
H2	 0.9490	 0.0000
H3	 0.9306	 0.0080
H5	 1.0000	 0.0000
H6	 0.8613	 0.0000
H7	 0.6739	 0.0000
H8	 0.4249	 0.0010
H9	 0.9736	 0.0000
HA	 0.9021	 -0.0010
HC	 0.7582	 0.0050
HD	 0.5223	 0.0000
I1	 0.4302	 0.0000
I2	 0.7978	 0.0000
I3	 0.9271	 0.0090
I5	 0.9705	 0.0000
I6	 0.9558	 0.0000
I7	 0.7702	 0.0000
I8	 0.4466	 0.0130
I9	 0.9935	 0.0000
IA	 0.1186	 0.0000
IC	 0.6787	 0.0240
ID	 0.5515	 0.0000
J1	 0.9146	 0.0000
J2	 0.9332	 0.0000
J3	 0.7385	 0.0000
J5	 0.7409	 0.0000
J6	 0.8689	 0.0000
J7	 0.9419	 -0.0010
J8	 0.7066	 -0.0050
J9	 1.0000	 0.0000
JA	 0.2526	 0.0000
JC	 0.9737	 0.0430
JD	 0.5732	 0.0000
K1	 0.9590	 0.0000
K2	 0.6548	 0.0000
K3	 1.0000	 -0.0020
K5	 0.9729	 0.0000
K6	 0.2705	 0.0000





















































































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Chain	Atom inclusion	Q-score
K7	 0.9762	 -0.0000
K8	 0.7686	 0.0050
K9	 0.9045	 0.0000
KA	 0.5757	 0.0000
KC	 0.9402	 0.0360
KD	 0.5793	 0.0000
L1	 0.9379	 0.0000
L2	 0.3721	 0.0000
L3	 0.9869	 -0.0030
L5	 1.0000	 0.0000
L6	 0.7576	 0.0000
L7	 0.9669	 0.0030
L8	 0.9638	 -0.0040
L9	 0.4198	 0.0000
LA	 0.8931	 0.0000
LC	 0.0000	 -0.0010
LD	 0.9319	 0.0000
M2	 0.3102	 0.0000
M3	 0.9184	 -0.0010
M5	 1.0000	 0.0000
M6	 0.7806	 0.0000
M7	 0.7326	 0.0000
M8	 0.3856	 -0.0040
M9	 0.5738	 0.0000
MA	 0.7897	 0.0000
MC	 0.5378	 0.0100
MD	 0.8294	 0.0000
N2	 0.7071	 -0.0080
N3	 0.9480	 -0.0070
N5	 0.1121	 0.0000
N6	 0.7649	 0.0000
N7	 0.7215	 0.0000
N8	 0.4042	 -0.0250
N9	 0.8403	 0.0160
NA	 0.2682	 0.0000
NC	 0.6569	 0.0290
ND	 0.6229	 0.0000
O2	 0.3899	 -0.0020
O3	 0.9980	 -0.0020
O5	 0.8381	 0.0140
O6	 0.7473	 0.0000
O7	 0.8183	 0.0000

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






















































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Chain	Atom inclusion	Q-score
O8	 0.7904	 -0.0020
O9	 0.7322	 0.0000
OA	 0.8226	 0.0000
OC	 0.0499	 -0.0690
OD	 0.8421	 0.0080
P2	 0.5191	 -0.0030
P3	 1.0000	 -0.0000
P5	 1.0000	 0.0000
P6	 0.3727	 0.0000
P7	 0.2156	 0.0000
P8	 0.3111	 -0.0380
P9	 1.0000	 0.0000
PA	 1.0000	 0.0000
PC	 0.4139	 0.0470
PD	 0.7104	 0.0000
Q2	 0.0000	 -0.0120
Q3	 0.6915	 0.0000
Q5	 1.0000	 0.0000
Q7	 0.2627	 0.0000
Q8	 0.0020	 -0.0240
Q9	 0.8838	 0.0100
QA	 0.9966	 0.0000
QC	 0.5424	 -0.0090
QD	 0.8882	 0.0000
R2	 0.9242	 0.0290
R3	 1.0000	 0.0000
R5	 0.7313	 0.0000
R7	 0.8404	 0.0000
R8	 0.3301	 0.0030
R9	 0.8118	 0.0000
RA	 1.0000	 0.0000
RC	 0.1898	 0.0030
RD	 0.7057	 0.0000
S2	 0.1691	 0.0050
S3	 0.9689	 0.0000
S5	 0.3997	 0.0000
S7	 0.9938	 0.0000
S8	 0.5789	 -0.0100
S9	 0.5439	 -0.0000
SA	 0.8256	 0.0000
SC	 0.8728	 0.0270
SD	 0.8324	 -0.0010

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Chain	Atom inclusion	Q-score
T2	 0.5793	 0.0060
T3	 0.8792	 -0.0020
T5	 1.0000	 0.0000
T7	 0.9607	 0.0000
T8	 0.0000	 0.0020
T9	 0.5856	 0.0000
TA	 0.7661	 0.0000
TC	 0.5282	 -0.0190
TD	 0.9826	 -0.0010
U2	 0.1616	 0.0050
U3	 0.9945	 0.0000
U5	 1.0000	 0.0000
U7	 0.3830	 0.0000
U8	 0.0000	 -0.0200
U9	 1.0000	 -0.0040
UA	 0.5970	 0.0000
UC	 0.0000	 -0.0360
UD	 0.6624	 -0.0070
V2	 0.6788	 0.0000
V3	 0.9807	 0.0000
V5	 0.8627	 0.0000
V7	 0.0815	 0.0000
V8	 0.9870	 0.0060
V9	 0.4830	 0.0000
VA	 0.9429	 0.0000
VC	 0.0971	 0.0140
VD	 0.6201	 0.0000
W3	 0.9921	 0.0000
W5	 0.2234	 0.0000
W7	 0.7302	 0.0000
W8	 0.0000	 0.0060
W9	 0.8586	 0.0000
WD	 0.1622	 0.0000
X5	 0.1049	 0.0000
X7	 0.3828	 0.0000
X9	 0.5430	 0.0000