



# Full wwPDB X-ray Structure Validation Report ⓘ

Dec 17, 2023 – 10:45 pm GMT

PDB ID : 4U4O  
Title : Crystal structure of Geneticin bound to the yeast 80S ribosome  
Authors : Garreau de Loubresse, N.; Prokhorova, I.; Yusupova, G.; Yusupov, M.  
Deposited on : 2014-07-24  
Resolution : 3.60 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
Xtrriage (Phenix) : 1.13  
EDS : **FAILED**  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36

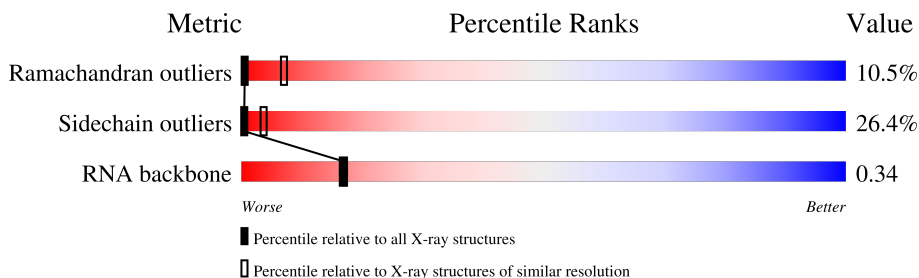
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.60 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)	Similar resolution (#Entries, resolution range(Å))
Ramachandran outliers	138981	1307 (3.70-3.50)
Sidechain outliers	138945	1307 (3.70-3.50)
RNA backbone	3102	1017 (4.20-3.00)


























The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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  $\leq 5\%$ .

Note EDS failed to run properly.

Mol	Chain	Length	Quality of chain
1	2	1800	37% (green), 46% (yellow), 14% (orange), 3% (red), 0% (grey)
1	6	1800	26% (green), 52% (yellow), 22% (orange), 0% (red), 0% (grey)
2	S0	251	55% (green), 25% (yellow), 18% (orange), 2% (red), 0% (grey)
2	s0	251	54% (green), 25% (yellow), 18% (orange), 3% (red), 0% (grey)
3	S1	254	55% (green), 27% (yellow), 16% (orange), 2% (red), 0% (grey)
3	s1	254	59% (green), 24% (yellow), 15% (orange), 2% (red), 0% (grey)
4	S2	253	59% (green), 24% (yellow), 14% (orange), 3% (red), 0% (grey)
4	s2	253	54% (green), 29% (yellow), 14% (orange), 3% (red), 0% (grey)

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Mol	Chain	Length	Quality of chain
5	S3	239	 65% 26% 7%
5	s3	239	 63% 28% 7%
6	S4	260	 71% 27%
6	s4	260	 70% 26%
7	S5	224	 64% 27% 8%
7	s5	224	 58% 29% 8%
8	S6	236	 67% 28%
8	s6	236	 64% 25% 8%
9	S7	189	 71% 23%
9	s7	189	 68% 26% 5%
10	S8	200	 72% 18% 6%
10	s8	200	 66% 26% 6%
11	S9	196	 67% 25% 6%
11	s9	196	 65% 26% 6%
12	C0	105	 57% 30% 9%
12	c0	105	 58% 29% 5% 9%
13	C1	155	 78% 21%
13	c1	155	 65% 28% 6%
14	C2	142	 54% 30% 13%
14	c2	142	 57% 27% 13%
15	C3	150	 75% 24%
15	c3	150	 64% 33%
16	C4	136	 65% 25% 7%
16	c4	136	 66% 25% 6%
17	C5	141	 59% 25% 12%

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Mol	Chain	Length	Quality of chain
17	c5	141	60% 28% 7% . .
18	C6	142	68% 28% . . .
18	c6	142	65% 32% . .
19	C7	136	55% 29% . . 12%
19	c7	136	54% 30% . 14%
20	C8	145	77% 21% .
20	c8	145	66% 28% 6%
21	C9	143	73% 24% .
21	c9	143	75% 22% .
22	D0	120	62% 26% . 11%
22	d0	120	49% 38% 5% 8%
23	D1	87	68% 28% 5%
23	d1	87	70% 26% .
24	D2	129	72% 26% .
24	d2	129	78% 20% .
25	D3	144	58% 36% 6%
25	d3	144	71% 27% .
26	D4	134	78% 18% .
26	d4	134	73% 25% .
27	D5	107	46% 17% . 35%
27	d5	107	45% 18% . 36%
28	D6	97	60% 31% 9%
28	d6	97	60% 37% .
29	D7	81	75% 23% .
29	d7	81	72% 26% .

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Mol	Chain	Length	Quality of chain
30	D8	66	65% 27% 5%
30	d8	66	65% 26% 5% 5%
31	D9	55	64% 27% 5%
31	d9	55	58% 35%
32	E0	60	62% 37%
33	E1	76	53% 37% 7%
34	SR	318	80% 19%
34	sR	318	80% 19%
35	SM	273	40% 16% 42%
35	sM	273	27% 9% 62%
36	1	3396	16% 54% 22% 7%
36	5	3396	15% 55% 23% 7%
37	3	121	29% 54% 17%
37	7	121	11% 64% 26%
38	4	158	27% 49% 23%
38	8	158	28% 52% 20%
39	L2	253	70% 28%
39	l2	253	72% 25%
40	L3	386	68% 28%
40	l3	386	67% 27% 5%
41	L4	361	68% 28%
41	l4	361	68% 29%
42	L5	296	72% 25%
42	l5	296	69% 26%
43	L6	175	69% 17% 11%









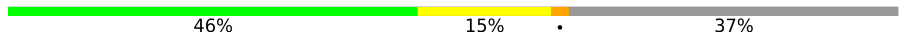
















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Mol	Chain	Length	Quality of chain
43	l6	175	63% 22% 10%
44	L7	243	63% 23% 9%
44	l7	243	67% 19% 6% 8%
45	L8	255	65% 25% 9%
45	l8	255	67% 21% 9%
46	L9	191	59% 38%
46	l9	191	60% 37%
47	M0	220	68% 25%
47	m0	220	63% 31%
48	M1	173	66% 27%
48	m1	173	57% 32% 8%
49	M3	198	71% 24%
49	m3	198	59% 37%
50	M4	137	69% 29%
50	m4	137	73% 26%
51	M5	203	78% 20%
51	m5	203	73% 25%
52	M6	198	70% 24% 5%
52	m6	198	64% 31%
53	M7	183	67% 30%
53	m7	183	54% 30% 15%
54	M8	185	72% 26%
54	m8	185	69% 27%
55	M9	188	68% 31%
55	m9	188	69% 28%


























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Mol	Chain	Length	Quality of chain
56	N0	172	 66% 33% .
56	n0	172	 69% 26% 5%
57	N1	159	 70% 25% 5%
57	n1	159	 72% 23% 6%
58	N2	120	 62% 18% . 17%
58	n2	120	 63% 16% .. 18%
59	N3	136	 73% 26% .
59	n3	136	 70% 26% .
60	N4	155	 46% 15% . 37%
60	n4	155	 56% 28% . 13%
61	N5	141	 65% 19% . 14%
61	n5	141	 56% 25% . 15%
62	N6	126	 68% 27% . .
62	n6	126	 62% 33% 5%
63	N7	135	 69% 31%
63	n7	135	 76% 23% .
64	N8	148	 74% 20% 5% .
64	n8	148	 68% 30% .
65	N9	58	 64% 33% . .
65	n9	58	 47% 45% 7% .
66	O0	104	 73% 19% . 7%
66	o0	104	 63% 30% . .
67	O1	112	 69% 26% . .
67	o1	112	 55% 37% 5% .
68	O2	129	 63% 33% . . .

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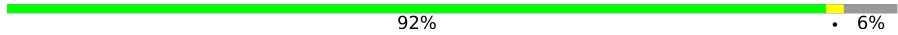

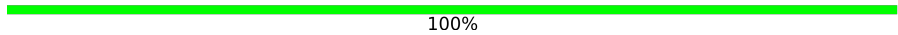
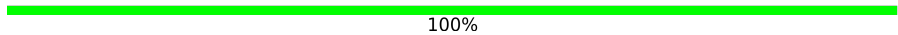
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Mol	Chain	Length	Quality of chain
68	o2	129	 67% 25% 5% . .
69	O3	106	 74% 23% .
69	o3	106	 65% 30% 5%
70	O4	119	 61% 27% 6% 6%
70	o4	119	 65% 25% . . 6%
71	O5	119	 61% 34% 5%
71	o5	119	 66% 29% 5%
72	O6	99	 70% 21% 9%
72	o6	99	 67% 28% 5%
73	O7	87	 72% 23% 5%
73	o7	87	 69% 23% 7% .
74	O8	77	 71% 27% .
74	o8	77	 77% 22% .
75	O9	50	 68% 30% .
75	o9	50	 70% 30%
76	Q0	52	 67% 27% 6%
76	q0	52	 56% 35% 10%
77	Q1	25	 52% 48%
77	q1	25	 48% 40% 12%
78	Q2	105	 69% 29% .
78	q2	105	 66% 30% . .
79	Q3	91	 66% 31% .
79	q3	91	 70% 24% 6%
80	e0	62	 68% 27% 5%
81	e1	76	 46% 47% 7%

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Mol	Chain	Length	Quality of chain
82	m2	160	 92% 6%
83	p0	311	 36% 9% 54%
84	p1	47	 100%
85	p2	46	 100%

## 2 Entry composition

There are 89 unique types of molecules in this entry. The entry contains 411095 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	2	1750	Total	C	N	O	P	0	0	0
			37283	16668	6591	12274	1750			
1	6	1791	Total	C	N	O	P	0	0	0
			38149	17055	6738	12565	1791			

- Molecule 2 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	S0	206	Total	C	N	O	S	0	0	0
			1577	1014	278	283	2			
2	s0	206	Total	C	N	O	S	0	0	0
			1583	1017	281	283	2			

- Molecule 3 is a protein called 40S ribosomal protein S1-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	S1	214	Total	C	N	O	S	0	0	0
			1709	1084	310	311	4			
3	s1	216	Total	C	N	O	S	0	0	0
			1722	1091	312	315	4			

- Molecule 4 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	S2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			
4	s2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			

- Molecule 5 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	S3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			
5	s3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			

- Molecule 6 is a protein called 40S ribosomal protein S4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	S4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			
6	s4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			

- Molecule 7 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	S5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			
7	s5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			

- Molecule 8 is a protein called 40S ribosomal protein S6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	S6	226	Total	C	N	O	S	0	0	0
			1799	1129	346	321	3			
8	s6	218	Total	C	N	O	S	0	0	0
			1755	1102	337	313	3			

- Molecule 9 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	S7	184	Total	C	N	O	0	0	0
			1481	951	265	265			
9	s7	186	Total	C	N	O	0	0	0
			1491	957	267	267			

- Molecule 10 is a protein called 40S ribosomal protein S8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	S8	188	Total	C	N	O	S	0	0	0
			1489	925	298	264	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	s8	188	1489	925	298	264	2	0	0	0

- Molecule 11 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
11	S9	185	1494	943	289	261	1	0	0	0
11	s9	185	1494	943	289	261	1	0	0	0

- Molecule 12 is a protein called 40S ribosomal protein S10-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	C0	96	773	500	126	145	2	0	0	0
12	c0	96	762	491	125	144	2	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C0	89	ALA	GLY	conflict	UNP Q08745
c0	89	ALA	GLY	conflict	UNP Q08745

- Molecule 13 is a protein called 40S ribosomal protein S11-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	C1	155	1214	775	230	206	3	0	0	0
13	c1	146	1168	747	221	197	3	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C1	147	ALA	GLY	conflict	UNP P0CX47
c1	147	ALA	GLY	conflict	UNP P0CX47

- Molecule 14 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	C2	124	Total	C	N	O	S	0	0	0
			892	562	156	172	2			
14	c2	124	Total	C	N	O	S	0	0	0
			892	562	156	172	2			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C2	104	ALA	GLY	conflict	UNP P48589
C2	110	ALA	GLY	conflict	UNP P48589
c2	104	ALA	GLY	conflict	UNP P48589
c2	110	ALA	GLY	conflict	UNP P48589

- Molecule 15 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	C3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			
15	c3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			

- Molecule 16 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	C4	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			
16	c4	128	Total	C	N	O	S	0	0	0
			949	582	188	176	3			

- Molecule 17 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	C5	124	Total	C	N	O	S	0	0	0
			977	622	182	166	7			
17	c5	135	Total	C	N	O	S	0	0	0
			1039	658	196	178	7			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C5	137	SER	ARG	conflict	UNP Q01855
c5	137	SER	ARG	conflict	UNP Q01855

- Molecule 18 is a protein called 40S ribosomal protein S16-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
18	C6	141	1105	708	203	194	0	0	0
18	c6	142	1111	711	204	196	0	0	0

- Molecule 19 is a protein called 40S ribosomal protein S17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
19	C7	120	926	577	177	170	2	0	0	0
19	c7	117	906	563	174	167	2	0	0	0

- Molecule 20 is a protein called 40S ribosomal protein S18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
20	C8	145	1192	743	237	210	2	0	0	0
20	c8	145	1192	743	237	210	2	0	0	0

- Molecule 21 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
21	C9	143	1112	694	208	208	2	0	0	0
21	c9	143	1112	694	208	208	2	0	0	0

- Molecule 22 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
22	D0	107	855	539	156	159	1	0	0	0
22	d0	110	882	554	161	166	1	0	0	0

- Molecule 23 is a protein called 40S ribosomal protein S21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	D1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			
23	d1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			

- Molecule 24 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	D2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			
24	d2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			

- Molecule 25 is a protein called 40S ribosomal protein S23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	D3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			
25	d3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			

- Molecule 26 is a protein called 40S ribosomal protein S24-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	D4	134	Total	C	N	O	0	0	0
			1073	676	208	189			
26	d4	134	Total	C	N	O	0	0	0
			1073	676	208	189			

- Molecule 27 is a protein called 40S ribosomal protein S25-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	D5	70	Total	C	N	O	0	0	0
			563	360	104	99			
27	d5	69	Total	C	N	O	0	0	0
			558	357	103	98			

- Molecule 28 is a protein called 40S ribosomal protein S26-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	D6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	d6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			

- Molecule 29 is a protein called 40S ribosomal protein S27-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	D7	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			
29	d7	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			

- Molecule 30 is a protein called 40S ribosomal protein S28-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	D8	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			
30	d8	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			

- Molecule 31 is a protein called 40S ribosomal protein S29-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			
31	d9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			

- Molecule 32 is a protein called 40S ribosomal protein S30-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	E0	60	Total	C	N	O	S	0	0	0
			475	299	98	77	1			

- Molecule 33 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	E1	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			

- Molecule 34 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	SR	318	Total	C	N	O	S	0	0	0
			2441	1544	419	470	8			
34	sR	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

- Molecule 35 is a protein called Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
35	SM	159	Total	C	N	O	0	0	0
			1104	652	221	231			
35	sM	104	Total	C	N	O	0	0	0
			679	402	140	137			

- Molecule 36 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			
36	5	3150	Total	C	N	O	P	0	0	0
			67376	30095	12145	21987	3149			

- Molecule 37 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	3	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
37	7	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 38 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	4	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			
38	8	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 39 is a protein called 60S ribosomal protein L2-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	L2	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
39	l2	252	Total	C	N	O	S	0	0	0
			1912	1190	388	333	1			

- Molecule 40 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
40	L3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			
40	l3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			

- Molecule 41 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
41	L4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			
41	l4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			

- Molecule 42 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
42	L5	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			
42	l5	294	Total	C	N	O	S	0	0	0
			2359	1489	412	456	2			

- Molecule 43 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
43	L6	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			
43	l6	157	Total	C	N	O	S	0	0	0
			1248	806	224	217	1			

- Molecule 44 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
44	L7	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
44	l7	223	Total	C	N	O	S	0	0	0
			1791	1155	325	310	1			

- Molecule 45 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
45	L8	233	Total	C	N	O	S	0	0	0
			1804	1151	323	327	3			
45	l8	231	Total	C	N	O	S	0	0	0
			1763	1130	316	314	3			

- Molecule 46 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
46	L9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			
46	l9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			

- Molecule 47 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
47	M0	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			
47	m0	213	Total	C	N	O	S	0	0	0
			1722	1094	325	297	6			

- Molecule 48 is a protein called 60S ribosomal protein L11-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
48	M1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			
48	m1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			

- Molecule 49 is a protein called 60S ribosomal protein L13-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
49	M3	193	Total	C	N	O	0	0	0
			1543	962	315	266			
49	m3	194	Total	C	N	O	0	0	0
			1548	965	316	267			

- Molecule 50 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	M4	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			
50	m4	137	Total	C	N	O	S	0	0	0
			1059	678	200	179	2			

- Molecule 51 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	M5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			
51	m5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			

- Molecule 52 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			
52	m6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			

- Molecule 53 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
53	M7	183	Total	C	N	O	0	0	0
			1420	882	281	257			
53	m7	155	Total	C	N	O	0	0	0
			1227	764	238	225			

- Molecule 54 is a protein called 60S ribosomal protein L18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	M8	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			
54	m8	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			

- Molecule 55 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
55	M9	188	Total	C	N	O	0	0	0
			1521	935	326	260			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
55	m9	188	Total	C	N	O	0	0	0
			1521	935	326	260			

- Molecule 56 is a protein called 60S ribosomal protein L20-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
56	N0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			
56	n0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			

- Molecule 57 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
57	N1	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			
57	n1	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			

- Molecule 58 is a protein called 60S ribosomal protein L22-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
58	N2	100	Total	C	N	O	0	0	0
			796	516	131	149			
58	n2	98	Total	C	N	O	0	0	0
			778	505	127	146			

- Molecule 59 is a protein called 60S ribosomal protein L23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
59	N3	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			
59	n3	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			

- Molecule 60 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
60	N4	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			
60	n4	135	Total	C	N	O	S	0	0	0
			1038	651	206	180	1			

- Molecule 61 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
61	N5	121	Total 964	C 620	N 169	O 173	S 2	0	0	0
61	n5	120	Total 959	C 617	N 168	O 172	S 2	0	0	0

- Molecule 62 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
62	N6	126	Total 993	C 625	N 192	O 176	0	0	0
62	n6	126	Total 993	C 625	N 192	O 176	0	0	0

- Molecule 63 is a protein called 60S ribosomal protein L27-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
63	N7	135	Total 1092	C 710	N 202	O 180	0	0	0
63	n7	135	Total 1092	C 710	N 202	O 180	0	0	0

- Molecule 64 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
64	N8	148	Total 1173	C 749	N 231	O 190	S 3	0	0	0
64	n8	148	Total 1173	C 749	N 231	O 190	S 3	0	0	0

- Molecule 65 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
65	N9	58	Total 462	C 289	N 100	O 73	0	0	0
65	n9	58	Total 462	C 289	N 100	O 73	0	0	0

- Molecule 66 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	O0	97	Total	C	N	O	S	0	0	0
			743	479	124	139	1			
66	o0	100	Total	C	N	O	S	0	0	0
			767	492	128	146	1			

- Molecule 67 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
67	O1	109	Total	C	N	O	S	0	0	0
			876	556	167	152	1			
67	o1	109	Total	C	N	O	S	0	0	0
			883	559	167	156	1			

- Molecule 68 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	O2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			
68	o2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			

- Molecule 69 is a protein called 60S ribosomal protein L33-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	O3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			
69	o3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

- Molecule 70 is a protein called 60S ribosomal protein L34-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	O4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			
70	o4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
O4	110	GLU	-	expression tag	UNP P87262
O4	111	ALA	-	expression tag	UNP P87262
O4	112	ALA	-	expression tag	UNP P87262

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Chain	Residue	Modelled	Actual	Comment	Reference
O4	113	LYS	-	expression tag	UNP P87262
O4	114	SER	-	expression tag	UNP P87262
O4	115	GLU	-	expression tag	UNP P87262
O4	116	LYS	-	expression tag	UNP P87262
O4	117	LYS	-	expression tag	UNP P87262
O4	118	ALA	-	expression tag	UNP P87262
O4	119	LYS	-	expression tag	UNP P87262
O4	120	LYS	-	expression tag	UNP P87262
o4	110	GLU	-	expression tag	UNP P87262
o4	111	ALA	-	expression tag	UNP P87262
o4	112	ALA	-	expression tag	UNP P87262
o4	113	LYS	-	expression tag	UNP P87262
o4	114	SER	-	expression tag	UNP P87262
o4	115	GLU	-	expression tag	UNP P87262
o4	116	LYS	-	expression tag	UNP P87262
o4	117	LYS	-	expression tag	UNP P87262
o4	118	ALA	-	expression tag	UNP P87262
o4	119	LYS	-	expression tag	UNP P87262
o4	120	LYS	-	expression tag	UNP P87262

- Molecule 71 is a protein called 60S ribosomal protein L35-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
71	O5	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			
71	o5	119	Total	C	N	O	S	0	0	0
			965	612	185	167	1			

- Molecule 72 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
72	O6	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			
72	o6	99	Total	C	N	O	S	0	0	0
			770	481	156	131	2			

- Molecule 73 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	O7	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	o7	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			

- Molecule 74 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
74	O8	77	Total	C	N	O		0	0	0
			612	391	115	106				
74	o8	77	Total	C	N	O		0	0	0
			608	388	114	106				

- Molecule 75 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	O9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			
75	o9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			

- Molecule 76 is a protein called Ubiquitin-60S ribosomal protein L40.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	Q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			
76	q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			

- Molecule 77 is a protein called 60S ribosomal protein L41-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	Q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			
77	q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

- Molecule 78 is a protein called 60S ribosomal protein L42-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	Q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			
78	q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			

- Molecule 79 is a protein called 60S ribosomal protein L43-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
79	Q3	91	Total 694	C 429	N 138	O 121	S 6	0	0	0
79	q3	91	Total 694	C 429	N 138	O 121	S 6	0	0	0

- Molecule 80 is a protein called 40S ribosomal protein S30-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
80	e0	62	Total 491	C 309	N 101	O 80	S 1	0	0	0

- Molecule 81 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
81	e1	76	Total 608	C 388	N 117	O 99	S 4	0	0	0

- Molecule 82 is a protein called unknown protein chain m2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
82	m2	150	Total 750	C 450	N 150	O 150	0	0	0

- Molecule 83 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
83	p0	143	Total 1076	C 686	N 192	O 195	S 3	0	0	0

- Molecule 84 is a protein called unknown protein chain p1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
84	p1	47	Total 235	C 141	N 47	O 47	0	0	0

- Molecule 85 is a protein called unknown protein chain p2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
85	p2	46	Total 230	C 138	N 46	O 46	0	0	0

- Molecule 86 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	2	124	Total Mg 124 124	0	0
86	S2	2	Total Mg 2 2	0	0
86	S8	1	Total Mg 1 1	0	0
86	D3	1	Total Mg 1 1	0	0
86	D4	1	Total Mg 1 1	0	0
86	SM	1	Total Mg 1 1	0	0
86	1	468	Total Mg 468 468	0	0
86	3	14	Total Mg 14 14	0	0
86	4	23	Total Mg 23 23	0	0
86	L2	2	Total Mg 2 2	0	0
86	L3	2	Total Mg 2 2	0	0
86	L4	2	Total Mg 2 2	0	0
86	L5	1	Total Mg 1 1	0	0
86	L6	2	Total Mg 2 2	0	0
86	L7	2	Total Mg 2 2	0	0
86	L8	1	Total Mg 1 1	0	0
86	M0	3	Total Mg 3 3	0	0
86	M1	1	Total Mg 1 1	0	0
86	M3	2	Total Mg 2 2	0	0
86	M5	2	Total Mg 2 2	0	0
86	M6	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	M7	5	Total 5	Mg 5	0	0
86	M9	1	Total 1	Mg 1	0	0
86	N0	1	Total 1	Mg 1	0	0
86	N3	2	Total 2	Mg 2	0	0
86	N5	2	Total 2	Mg 2	0	0
86	N6	1	Total 1	Mg 1	0	0
86	N8	4	Total 4	Mg 4	0	0
86	N9	1	Total 1	Mg 1	0	0
86	O1	1	Total 1	Mg 1	0	0
86	O2	1	Total 1	Mg 1	0	0
86	O3	1	Total 1	Mg 1	0	0
86	O5	1	Total 1	Mg 1	0	0
86	O7	1	Total 1	Mg 1	0	0
86	6	150	Total 150	Mg 150	0	0
86	s1	1	Total 1	Mg 1	0	0
86	s2	1	Total 1	Mg 1	0	0
86	s8	2	Total 2	Mg 2	0	0
86	c7	1	Total 1	Mg 1	0	0
86	c8	1	Total 1	Mg 1	0	0
86	d3	1	Total 1	Mg 1	0	0
86	d6	1	Total 1	Mg 1	0	0

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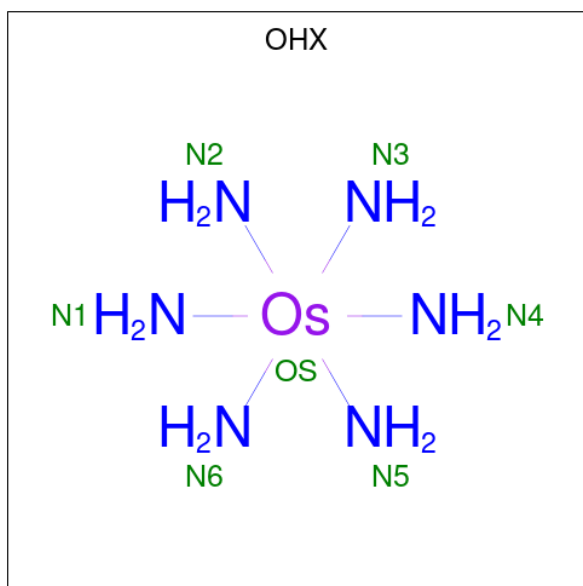
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	499	Total Mg 499 499	0	0
86	7	15	Total Mg 15 15	0	0
86	8	17	Total Mg 17 17	0	0
86	12	1	Total Mg 1 1	0	0
86	13	6	Total Mg 6 6	0	0
86	14	1	Total Mg 1 1	0	0
86	15	3	Total Mg 3 3	0	0
86	17	2	Total Mg 2 2	0	0
86	19	1	Total Mg 1 1	0	0
86	m0	1	Total Mg 1 1	0	0
86	m1	1	Total Mg 1 1	0	0
86	m4	1	Total Mg 1 1	0	0
86	m5	2	Total Mg 2 2	0	0
86	m6	3	Total Mg 3 3	0	0
86	m7	4	Total Mg 4 4	0	0
86	n3	1	Total Mg 1 1	0	0
86	n4	1	Total Mg 1 1	0	0
86	n8	2	Total Mg 2 2	0	0
86	n9	2	Total Mg 2 2	0	0
86	o0	1	Total Mg 1 1	0	0
86	o1	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	o2	1	Total Mg 1 1	0	0
86	o3	2	Total Mg 2 2	0	0
86	o4	1	Total Mg 1 1	0	0
86	q0	2	Total Mg 2 2	0	0
86	q1	1	Total Mg 1 1	0	0
86	q3	2	Total Mg 2 2	0	0

- Molecule 87 is osmium (III) hexammine (three-letter code: OHX) (formula:  $H_{12}N_6Os$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
87	2	1	Total N Os 7 6 1	0	0
87	2	1	Total N Os 7 6 1	0	0
87	2	1	Total N Os 7 6 1	0	0
87	2	1	Total N Os 7 6 1	0	0
87	2	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	2	1	7	6	1	0	0
87	S8	1	7	6	1	0	0
87	C3	1	7	6	1	0	0
87	C5	1	7	6	1	0	0
87	C8	1	7	6	1	0	0
87	D3	1	7	6	1	0	0
87	D9	1	7	6	1	0	0
87	SR	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0
87	1	1	Total	N	Os		
			7	6	1	0	0

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<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>			<b>ZeroOcc</b>	<b>AltConf</b>
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	1	1	7	6	1	0	0
87	1	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	3	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	4	1	7	6	1	0	0
87	L3	1	7	6	1	0	0
87	L3	1	7	6	1	0	0
87	L3	1	7	6	1	0	0
87	L4	1	7	6	1	0	0
87	M0	1	7	6	1	0	0
87	M5	1	7	6	1	0	0
87	M6	1	7	6	1	0	0
87	M7	1	7	6	1	0	0
87	M9	1	7	6	1	0	0
87	M9	1	7	6	1	0	0
87	N9	1	7	6	1	0	0
87	O1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	O2	1	7	6	1	0	0
87	O3	1	7	6	1	0	0
87	O7	1	7	6	1	0	0
87	O7	1	7	6	1	0	0
87	Q2	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	6	1	7	6	1	0	0
87	s1	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	s8	1	7	6	1	0	0
87	c3	1	7	6	1	0	0
87	c5	1	7	6	1	0	0
87	c8	1	7	6	1	0	0
87	d4	1	7	6	1	0	0
87	d9	1	7	6	1	0	0
87	sR	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0
87	5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	5	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	7	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0

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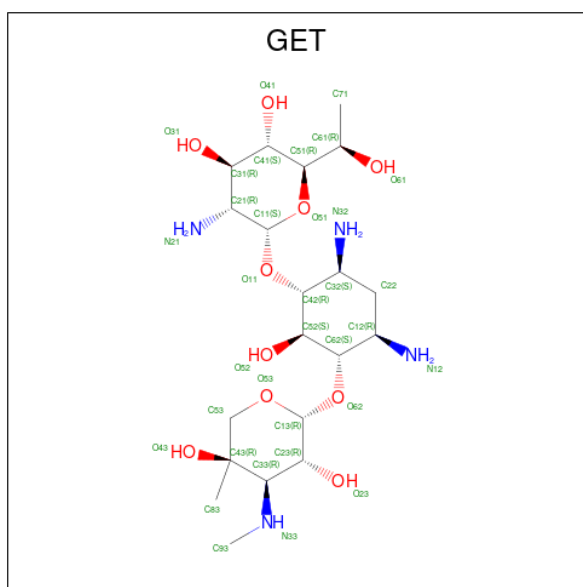
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	8	1	7	6	1	0	0
87	13	1	7	6	1	0	0
87	13	1	7	6	1	0	0
87	14	1	7	6	1	0	0
87	14	1	7	6	1	0	0
87	15	1	7	6	1	0	0
87	15	1	7	6	1	0	0
87	15	1	7	6	1	0	0
87	15	1	7	6	1	0	0
87	19	1	7	6	1	0	0
87	m0	1	7	6	1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	N	Os		
87	m0	1	7	6	1	0	0
87	m1	1	7	6	1	0	0
87	m4	1	7	6	1	0	0
87	m5	1	7	6	1	0	0
87	m7	1	7	6	1	0	0
87	m9	1	7	6	1	0	0
87	n3	1	7	6	1	0	0
87	n9	1	7	6	1	0	0
87	o3	1	7	6	1	0	0
87	o7	1	7	6	1	0	0
87	o9	1	7	6	1	0	0
87	q1	1	7	6	1	0	0
87	q2	1	7	6	1	0	0

- Molecule 88 is GENETICIN (three-letter code: GET) (formula: C<sub>20</sub>H<sub>40</sub>N<sub>4</sub>O<sub>10</sub>).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
88	2	1	34	20	4	10	0	0

- Molecule 89 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
89	D6	1	1	1	0	0
89	D7	1	1	1	0	0
89	D9	1	1	1	0	0
89	E1	1	1	1	0	0
89	O7	1	1	1	0	0
89	Q0	1	1	1	0	0
89	Q2	1	1	1	0	0
89	Q3	1	1	1	0	0
89	d6	1	1	1	0	0
89	d7	1	1	1	0	0
89	d9	1	1	1	0	0

*Continued on next page...*

*Continued from previous page...*

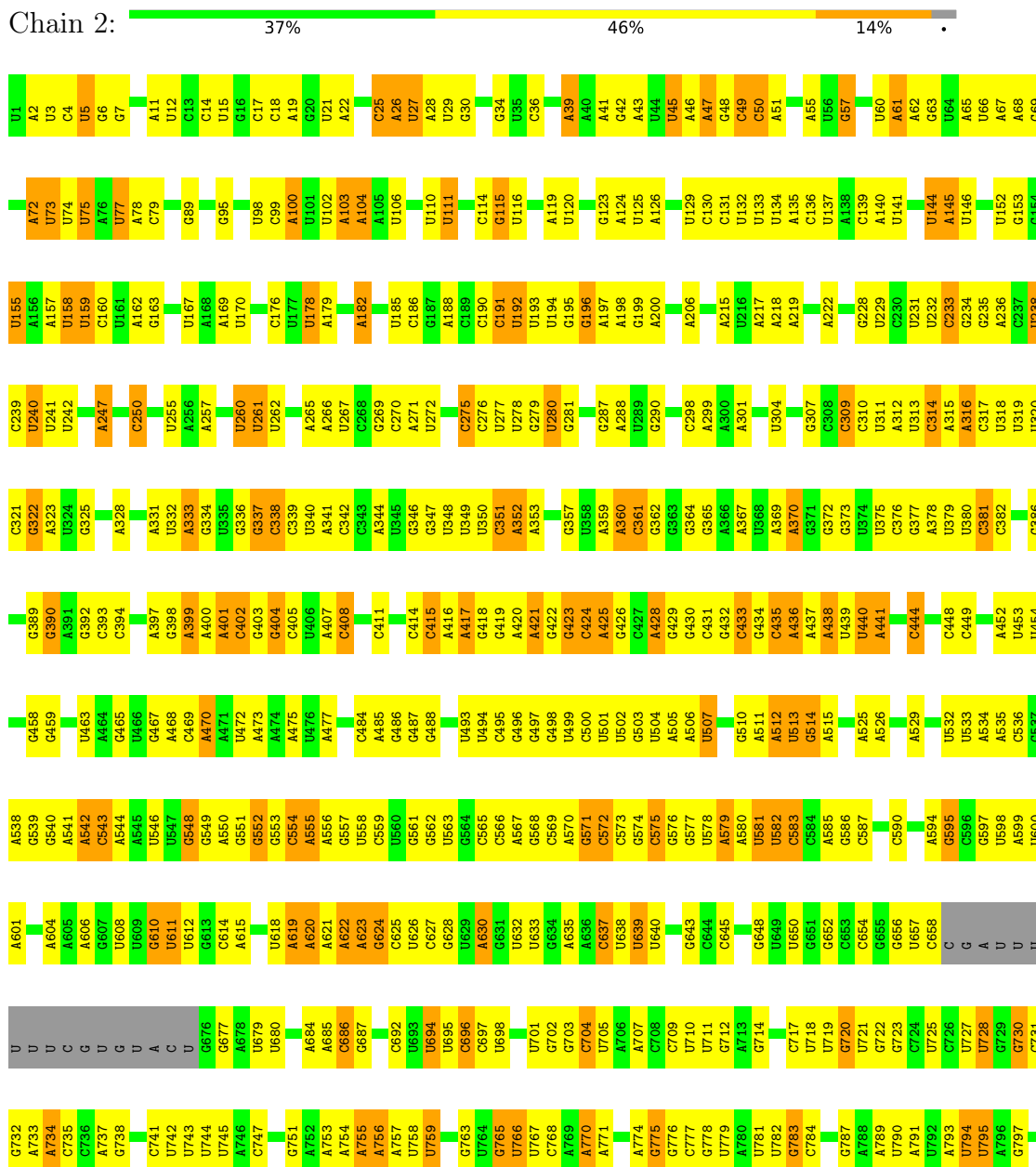
<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
89	e1	1	Total 1	Zn 1	0	0
89	o7	1	Total 1	Zn 1	0	0
89	q0	1	Total 1	Zn 1	0	0
89	q2	1	Total 1	Zn 1	0	0
89	q3	1	Total 1	Zn 1	0	0

### 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. Residues are color-coded 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. 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.

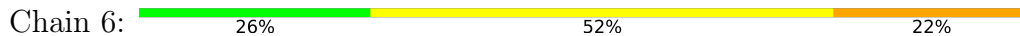
Note EDS failed to run properly.

- Molecule 1: 18S ribosomal RNA



U	C1619	A1550	A1475	G1412	U1320	U1250	G1177	G1111	C1033	U968	C880	A803
U	C1620	U1551	C1476	U1413	A1321	U1251	G1178	G1112	C1037	C969	C883	A804
G	C1623	U1552	G1477	U1414	A1322	C1252	C1179	A1113	C1038	A970	C884	U805
A	C1624	U1553	A1478	U1415	G1324	G1255	U1181	G1114	A1039	A971	C885	A806
G	C1625	U1554	G1480	G1416	A1329	G1256	U1182	G1119	A1040	A972	C886	A807
A	A1631	A1555	C1481	A1417	A1329	G1257	A1183	U1120	A1043	A974	C887	G810
A	A1632	U1556	C1482	G1418	C1332	U1258	A1184	U1121	A1044	C975	C888	A811
G	A1633	U1557	A1483	G1419	C1332	U1259	U1185	G1122	U1044	C976	C889	A812
G	A1634	U1558	G1484	C1420	A1336	U1260	U1186	C1123	A1045	A977	C890	U813
G	A1635	U1559	C1485	A1421	A1336	G1261	A1187	A1124	A1046	A978	C891	A814
C	C1636	U1560	G1486	A1422	C1338	G1262	A1189	U1125	G1050	A979	C892	G815
C	C1637	U1561	U1489	U1423	C1338	G1263	A1190	G1126	G1051	C980	C893	G816
A	G1638	C1565	A1490	A1484	C1339	G1264	U1191	G1127	G1052	C981	C894	A817
A	A1639	C1566	A1491	A1492	U1340	G1265	U1192	C1128	U1052	U982	C895	C818
C	C1640	C1568	U1491	C1426	A1341	G1266	A1193	C1129	G1053	U983	C896	G819
U	C1641	A1569	A1492	A1427	A1342	U1267	A1194	U1129	G1054	G904	C897	U820
C	G1642	A1570	A1493	G1428	U1343	G1268	A1195	G1130	U1055	A905	C898	U821
C	U1643	C1571	G1496	G1429	A1344	U1269	A1196	A1132	U1056	A906	C899	U822
A	U1644	G1572	U1497	U1430	A1344	G1270	A1197	A1133	U1057	U909	C900	G823
C	G1645	G1573	G1498	U1431	A1346	G1271	C1198	A1134	U1058	A988	C901	G824
C	G1646	G1574	G1499	U1432	A1347	U1272	G1199	U1135	U1059	U989	C902	U825
U	U1647	U1575	C1500	U1434	A1348	C1273	G1200	U1136	U1060	C990	C903	U826
C	A1648	U1579	C1501	G1435	A1348	A1275	G1201	U1137	A1061	G991	C904	C827
A	G1649	U1582	G1502	A1436	G1354	U1276	A1202	A1138	A1062	A992	C905	U828
G	U1650	U1583	G1503	U1437	C1355	G1277	A1203	A1139	A993	A993	C906	A829
G	A1651	A1583	A1503	G1438	U1356	G1278	A1204	G1140	U1071	G994	C907	U830
C	C1652	G1584	G1504	C1439	A1357	C1279	G1141	G1141	C1072	U920	C908	U831
G	C1653	A1587	U1514	U1443	G1358	C1280	C1207	A1143	G1073	U921	C909	U832
A	A1655	G1588	G1515	U1444	C1359	G1281	C1207	A1143	G1074	U921	C910	U833
U	U1656	U1589	A1516	G1445	A1360	U1282	C1209	U1144	C1075	A929	C911	U834
C	G1657	G1590	U1517	C1447	U1362	U1283	C1210	U1145	A1076	A930	C912	G837
C	A1659	C1591	U1517	G1448	U1363	U1284	C1210	G1146	C1077	A931	C913	G838
U	U1660	G1594	U1520	U1452	U1370	A1287	A1211	A1147	C1078	U932	C914	U840
A	U1661	U1595	G1521	G1453	A1371	G1288	G1212	C1148	C1079	U933	C915	U840
C	G1662	C1596	U1522	G1454	U1372	U1289	G1212	A1149	U1080	A1005	C916	G846
C	C1664	U1598	G1523	G1455	C1373	U1290	G1216	G1150	A1081	C1006	C917	G846
C	U1665	C1599	A1524	C1456	C1374	G1291	G1217	A1151	C1082	C1007	C918	A847
C	A1667	A1600	A1526	C1457	A1375	G1291	A1217	A1152	G1083	U1008	C919	C848
C	G1668	C1602	U1526	G1458	U1378	G1296	A1219	G1155	A1084	U1009	C920	C849
C	U1669	C1602	C1530	C1459	U1378	G1297	A1220	C1155	A1086	C1010	C921	U854
C	G1670	G1605	G1531	A1460	G1386	U1298	C1226	C1158	A1092	C1011	C922	A855
C	A1671	C1606	U1532	C1461	U1386	A1300	A1227	A1159	A1093	U1015	C923	A856
C	G1672	G1607	C1533	G1462	C1389	U1301	G1228	C1161	A1094	C1016	C924	U859
A	C1673	U1608	U1535	C1463	U1390	U1302	G1229	C1162	U1095	A1019	C925	U860
C	C1674	U1609	U1536	G1464	A1391	U1303	C1235	A1163	U1097	A1020	C926	U861
C	C1675	U1610	C1537	C1465	U1392	U1306	A1236	G1165	U1098	C1022	C927	A863
C	G1679	A1611	U1538	C1466	C1393	C1307	G1237	A1166	G1100	A1023	C928	U864
C	U1682	U1613	U1539	C1467	U1398	U1307	U1240	G1167	G1101	U958	C929	U865
C	C1683	A1614	G1540	C1468	C1399	U1311	G1241	U1168	G1102	U959	C930	U866
C	U1684	C1615	G1542	C1470	A1400	U1314	A1244	C1172	U1103	U960	C931	U867
C	U1685	G1616	G1546	C1471	U1407	U1315	G1245	C1173	U1104	C1028	C932	U873
C	C	C1618	A1547	C1472	G1408	U1316	U1247	C1174	G1108	A1030	C933	C874
C	C	C	C	G1474	G1409	U1316	U1247	C1176	G1109	A1031	C934	G875
C	C	C	C	C	C	C	C	C	G1110	A1032	C935	G876

• Molecule 1: 18S ribosomal RNA





U1	A62	U128	U194	G273	C338	A400	U463	C531	G597	U686	U742	U805	G890	G954	U1018
A2	G63	U129	G195	G274	C339	A401	A464	U532	U598	U667	U743	U806	A891	A955	A1019
U3	U64	C130	A200	C275	U340	A402	A465	U533	A599	C668	U744	U807	A892	G956	A1020
C4	A65	C131	G201	C276	A341	G403	U466	A534	U600	C669	U745	A810	C897	G957	A1021
U5	U66	U132	U	U277	C342	G404	G467	A538	A601	U670	U746	A811	C898	U958	A1022
G6	A67	U133	G204	U278	C343	G405	G468	A539	U603	G	G747	A812	C899	U959	A1023
G7	A68	U	U	G279	A344	U406	C469	G539	U603	U	U748	A813	C900	U960	U1024
U8	G69	A	U208	U280	U345	A407	A470	G540	A606	A673	U749	U814	A901	U961	A1025
U9	C70	C136	U208	U281	U346	C408	A471	G541	A607	G676	U750	U815	A902	C962	A1026
G10	A71	U137	U209	G286	G347	C409	A472	G542	G607	G677	U751	U816	G902	A963	A1027
A11	A72	A138	A210	C286	U348	C410	A473	C543	U608	G678	U752	U817	G903	U964	C1028
U12	U73	U139	U211	G287	U349	C411	A474	A544	U609	A678	A752	U818	G904	U965	A1029
C13	U74	A140	U212	A288	U350	C412	A475	A545	U610	U679	A753	U819	A905	A966	A1030
C14	U75	U141	A213	U289	C351	U413	A476	U546	U611	U680	A754	U820	A906	A967	A1031
U15	A76	G142	G214	U293	A352	G414	A477	U547	U612	U681	U755	U821	A907	A968	U1032
G16	A77	G143	G215	U294	A353	C415	G480	G548	U613	C682	A756	U822	A908	C969	C1033
C17	A78	G144	A216	C294	A354	A416	C481	G549	C614	C683	A757	U823	U909	C970	C1034
C18	C79	U145	A217	A295	G355	A417	C482	U552	A615	A684	U758	U824	C910	A970	G1035
A19	A80	U146	A218	U296	G356	G418	A485	G553	A616	A685	U759	U825	C911	A971	G1036
G20	A85	A147	A219	U297	G357	C419	A486	G554	U617	C686	U760	U826	U912	G972	A1037
U21	A86	U148	A220	U298	U358	C420	G487	C554	U618	C687	U761	U827	U913	A973	U1038
A22	A87	C149	A221	A299	A359	A421	G488	A555	A619	C691	U764	U828	U914	G976	A1039
G23	C87	U150	A222	A300	A360	A422	G489	A556	A620	C692	U765	U829	U915	A977	G1040
U24	U88	G151	U227	A301	A361	G423	C490	C557	A621	C692	G765	U830	U916	G977	G1041
C25	G89	U152	G228	U302	G362	C424	C491	C558	A622	C693	U766	U831	U917	G980	G1042
A26	C90	G153	U229	U303	G363	A425	A492	C559	A623	U695	C766	U832	U918	U981	U1043
U27	A93	G154	C230	U304	U364	A426	A493	U560	A624	C696	A769	U833	U919	U982	G1047
A28	U94	U155	C231	C305	A367	C427	U494	C561	A625	C697	A770	U834	U920	A983	G1048
U29	U95	U156	U232	U306	U368	A428	U495	C562	A626	C698	A771	U835	U921	G984	U1049
G30	U96	A157	C233	G307	A369	G429	C496	C563	U627	U699	U772	U836	U922	G985	G1050
C31	U97	U158	G234	U308	A370	G430	C497	C564	G628	U702	C773	U837	U923	G986	U1051
U32	C97	U159	A235	C309	A371	C431	U499	C565	U629	G702	A774	U838	U924	G987	G1052
U33	U98	C160	A236	C310	C372	C432	C500	C566	A630	G703	A775	U839	U925	A988	U1053
G34	C99	U161	A237	U311	G373	C433	U501	C567	A631	C704	A776	U840	U926	U989	U1054
U35	U100	G163	A164	U312	U374	G434	U502	C568	A632	C705	C777	U841	U927	G990	U1055
C36	U101	A165	C239	U313	U375	C435	U503	C569	A633	U705	C778	U842	U928	G991	U1056
A39	U102	G166	U241	C314	G376	A436	A504	C570	A634	C709	U779	U843	U929	G992	U1057
A40	A103	C166	U241	A315	C377	A437	A505	C571	A635	U710	A780	U844	U930	A993	U1058
A41	A104	U167	U241	A316	C378	A438	A506	C572	A636	U711	U781	U845	U931	G994	U1059
G42	A105	U168	G246	A317	U379	U439	U507	C573	A637	U712	A782	U846	U932	A995	U1060
A43	C107	A169	U248	U318	U380	U440	U508	C574	A638	U713	A783	U847	U933	U996	U1061
U44	A108	U170	U249	U319	C381	A441	U509	C575	A639	U714	C784	U848	U934	G997	A1062
U45	G109	A171	C250	U320	C382	C442	U510	C576	U639	U715	C785	U849	U935	A998	U1063
A46	U110	C172	C250	C321	G383	C443	A511	C577	U639	C717	U786	U850	U936	U999	G1064
A47	U111	G175	A251	C322	G384	C444	A512	C578	C646	U718	C786	U851	U937	C1000	A1065
G48	U112	C176	U252	A323	C385	C445	U513	C579	C647	U719	C787	U852	U938	A1001	U1066
C49	U113	U177	A254	A324	G386	C446	G514	C580	C648	U720	A788	U853	U939	G1002	G1073
C50	U114	U178	U254	G325	U387	C447	A515	C581	U649	U721	A789	U854	A940	A1003	U1070
A51	G115	U179	A179	G326	G388	C448	A516	C582	U650	G722	U790	U855	U941	U1004	C1072
U52	A119	U185	U260	U327	U389	C449	A517	C583	G651	G723	U791	U856	U942	A1005	U1005
G53	C54	C186	U261	A328	G390	C450	A518	C584	C652	C724	U792	U857	U943	C1006	C1006
C54	U120	G186	U261	A328	C391	C451	A519	C585	C653	U725	U793	U858	U944	C1007	G1074
A55	U121	C187	G264	G329	A391	C452	A520	C586	C654	C726	U794	U859	U945	U1008	U1075
U56	U122	A188	A266	G330	G392	C453	A521	C587	C655	U727	U795	U860	U946	C1009	C1075
G57	G123	G189	U267	U332	C393	C454	A522	C588	C656	U728	U796	U861	U947	U1010	U1076
U58	A124	C190	C190	U333	C394	C455	A523	C589	G660	G729	U797	U862	U948	C1010	C1077
C59	U125	C191	C270	U334	U395	C456	A524	C590	A661	G730	U798	U863	U949	U1011	G1078
U60	A126	U192	A271	G334	G396	C457	A525	C591	A662	U682	U800	U864	C950	U1012	U1079
A61	G127	U193	C272	U335	A397	C458	A526	C592	A663	U683	A733	U865	C951	A1013	U1080
				G337	A399	C459	A527	C593	A664	U684	A734	U866	A952	U1081	U1081
						C462	A528	C594	A665	U685	C735	U867	G953	C1082	C1082

G1083	A1084	G1085	A1086	G1087	A1088	G1089	A1090	G1091	A1092	G1093	A1094	G1095	A1096	G1097	A1098	G1099	A1100	G1101	A1102	G1103	A1104	G1105	A1106	G1107	A1108	G1109	A1110	G1111	A1112	G1113	A1114	G1115	A1116	G1117	A1118	G1119	A1120	G1121	A1122	G1123	A1124	G1125	A1126	G1127	A1128	G1129	A1130	G1131	A1132	G1133	A1134	G1135	A1136	G1137	A1138	G1139	A1140	G1141	A1142																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
A1143	U1144	G1145	A1146	G1147	A1148	G1149	A1150	U1151	A1152	G1153	A1154	G1155	A1156	G1157	A1158	G1159	A1160	G1161	A1162	G1163	A1164	G1165	A1166	G1167	A1168	G1169	U1170	A1171	G1172	A1173	G1174	A1175	G1176	A1177	G1178	A1179	U1180	G1181	A1182	G1183	A1184	G1185	A1186	G1187	A1188	G1189	A1190	G1191	A1192	G1193	A1194	G1195	A1196	G1197	A1198	G1199	A1200	G1201	A1202	G1203	A1204	G1205	A1206	G1207	A1208	G1209	A1210	G1211	A1212	G1213	A1214	G1215	A1216	G1217	A1218	G1219	A1220	G1221	A1222	G1223	A1224	G1225	A1226	G1227	A1228	G1229	A1230	G1231	A1232	G1233	A1234	G1235	A1236	G1237	A1238	G1239	A1240	G1241	A1242	G1243	A1244	G1245	A1246	G1247	A1248	G1249	A1250	G1251	A1252	G1253	A1254	G1255	A1256	G1257	A1258	G1259	A1260	G1261	A1262	G1263	A1264	G1265	A1266	G1267	A1268	G1269	A1270	G1271	A1272	G1273	A1274	G1275	A1276	G1277	A1278	G1279	A1280	G1281	A1282	G1283	A1284	G1285	A1286	G1287	A1288	G1289	A1290	G1291	A1292	G1293	A1294	G1295	A1296	G1297	A1298	G1299	A1300	G1301	A1302	G1303	A1304	G1305	A1306	G1307	A1308	G1309	A1310	G1311	A1312	G1313	A1314	G1315	A1316	G1317	A1318	G1319	A1320	G1321	A1322	G1323	A1324	G1325	A1326	G1327	A1328	G1329	A1330	G1331	A1332	G1333	A1334	G1335	A1336	G1337	A1338	G1339	A1340	G1341	A1342	G1343	A1344	G1345	A1346	G1347	A1348	G1349	A1350	G1351	A1352	G1353	A1354	G1355	A1356	G1357	A1358	G1359	A1360	G1361	A1362	G1363	A1364	G1365	A1366	G1367	A1368	G1369	A1370	G1371	A1372	G1373	A1374	G1375	A1376	G1377	A1378	G1379	A1380	G1381	A1382	G1383	A1384	G1385	A1386	G1387	A1388	G1389	A1390	G1391	A1392	G1393	A1394	G1395	A1396	G1397	A1398	G1399	A1400	G1401	A1402	G1403	A1404	G1405	A1406	G1407	A1408	G1409	A1410	G1411	A1412	G1413	A1414	G1415	A1416	G1417	A1418	G1419	A1420	G1421	A1422	G1423	A1424	G1425	A1426	G1427	A1428	G1429	A1430	G1431	A1432	G1433	A1434	G1435	A1436	G1437	A1438	G1439	A1440	G1441	A1442	G1443	A1444	G1445	A1446	G1447	A1448	G1449	A1450	G1451	A1452	G1453	A1454	G1455	A1456	G1457	A1458	G1459	A1460	G1461	A1462	G1463	A1464	G1465	A1466	G1467	A1468	G1469	A1470	G1471	A1472	G1473	A1474	G1475	A1476	G1477	A1478	G1479	A1480	G1481	A1482	G1483	A1484	G1485	A1486	G1487	A1488	G1489	A1490	G1491	A1492	G1493	A1494	G1495	A1496	G1497	A1498	G1499	A1500	G1501	A1502	G1503	A1504	G1505	A1506	G1507	A1508	G1509	A1510	G1511	A1512	G1513	A1514	G1515	A1516	G1517	A1518	G1519	A1520	G1521	A1522	G1523	A1524	G1525	A1526	G1527	A1528	G1529	A1530	G1531	A1532	G1533	A1534	G1535	A1536	G1537	A1538	G1539	A1540	G1541	A1542	G1543	A1544	G1545	A1546	G1547	A1548	G1549	A1550	G1551	A1552	G1553	A1554	G1555	A1556	G1557	A1558	G1559	A1560	G1561	A1562	G1563	A1564	G1565	A1566	G1567	A1568	G1569	A1570	G1571	A1572	G1573	A1574	G1575	A1576	G1577	A1578	G1579	A1580	G1581	A1582	G1583	A1584	G1585	A1586	G1587	A1588	G1589	A1590	G1591	A1592	G1593	A1594	G1595	A1596	G1597	A1598	G1599	A1600	G1601	A1602	G1603	A1604	G1605	A1606	G1607	A1608	G1609	A1610	G1611	A1612	G1613	A1614	G1615	A1616	G1617	A1618	G1619	A1620	G1621	A1622	G1623	A1624	G1625	A1626	G1627	A1628	G1629	A1630	G1631	A1632	G1633	A1634	G1635	A1636	G1637	A1638	G1639	A1640	G1641	A1642	G1643	A1644	G1645	A1646	G1647	A1648	G1649	A1650	G1651	A1652	G1653	A1654	G1655	A1656	G1657	A1658	G1659	A1660	G1661	A1662	G1663	A1664	G1665	A1666	G1667	A1668	G1669	A1670	G1671	A1672	G1673	A1674	G1675	A1676	G1677	A1678	G1679	A1680	G1681	A1682	G1683	A1684	G1685	A1686	G1687	A1688	G1689	A1690	G1691	A1692	G1693	A1694	G1695	A1696	G1697	A1698	G1699	A1700	G1701	A1702	G1703	A1704	G1705	A1706	G1707	A1708	G1709	A1710	G1711	A1712	G1713	A1714	G1715	A1716	G1717	A1718	G1719	A1720	G1721	A1722	G1723	A1724	G1725	A1726	G1727	A1728	G1729	A1730	G1731	A1732	G1733	A1734	G1735	A1736	G1737	A1738	G1739	A1740	G1741	A1742	G1743	A1744	G1745	A1746	G1747	A1748	G1749	A1750	G1751	A1752	G1753	A1754	G1755	A1756	G1757	A1758	G1759	A1760	G1761	A1762	G1763	A1764	G1765	A1766	G1767	A1768	G1769	A1770	G1771	A1772	G1773	A1774	G1775	A1776	G1777	A1778	G1779	A1780	G1781	A1782	G1783	A1784	G1785	A1786	G1787	A1788	G1789	A1790	G1791	A1792	G1793	A1794	G1795	A1796	G1797	A1798	G1799	A1800

• Molecule 2: 40S ribosomal protein S0-A

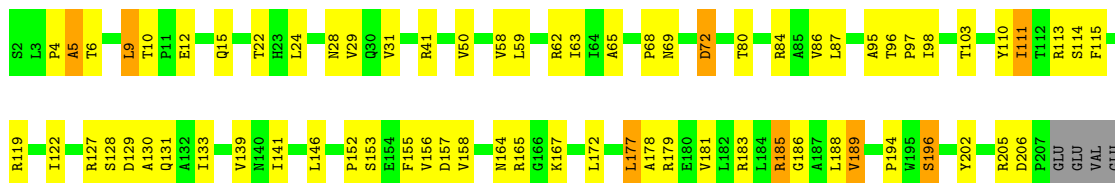


S2	L3	P4	A5	T6	F7	D8	L16	N21	T22	A26	R27	N28	V29	Q30	E34	F35	Y36	V37	F38	X39	D43	G44	V45	V50	R62	A66	I67	P68	S78	R79	T80	B84	L87	K88	A95	T96	P97	I98	R101	F102	T103	S106	Y110	I111
P118	T124	D129	A130	Q131	E135	A136	S137	N140	I141	P142	V143	L146	D150	V156	D157	V158	C162	R165	S169	I170	G171	L172	L177	V181	L184	R185	L188	V189	D190	R191	V195	S196	I197	M198	F203	D206	P207	GLU	GLY	VAL				

GLU  
GLN  
GLN  
VAL  
VAL  
ALA  
GLU  
GLU  
GLU  
ALA  
ALA  
THR  
THR  
GLU  
GLU  
ALA  
ALA  
GLY  
GLU  
GLU  
GLU  
GLU  
ALA  
ALA  
LYS  
LYS  
GLU  
GLU  
VAL  
VAL  
THR  
THR  
GLU  
GLU  
GLN  
GLN  
ALA  
ALA  
GLU  
GLU  
GLU  
GLU  
ASN  
ASN  
ALA  
ASP  
ASN  
VAL  
VAL  
TRP

• Molecule 2: 40S ribosomal protein S0-A

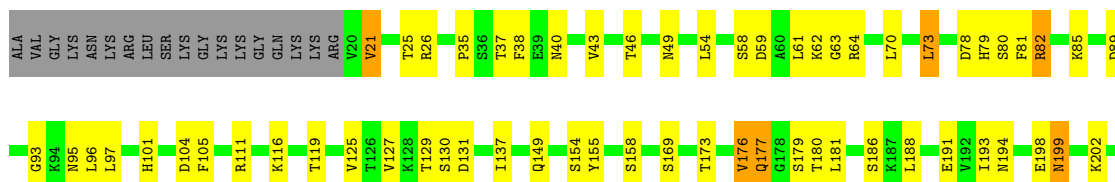
Chain s0: 54% 25% 18%



R119, I122, R127, S128, D129, A130, Q131, I133, V139, H140, I141, L146, P152, S153, E154, F155, V156, D157, V158, M164, R165, F38, G166, K167, L172, L177, A178, R179, E180, V181, L182, R183, L184, R185, G186, A187, L188, V189, P194, W195, S196, Y202, R205, D206, P207, GLU, VAL, GLU, VAL, GLU

• Molecule 3: 40S ribosomal protein S1-A

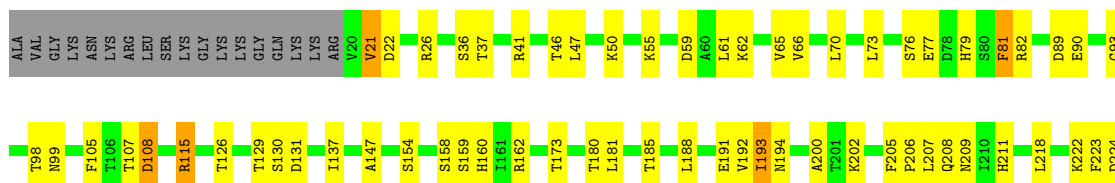
Chain S1: 55% 27% 16%



G93, K94, N95, L96, L97, H101, D104, F105, R111, K116, T119, V125, T126, V127, K128, T129, S130, D131, I137, Q149, S154, Y155, S158, S169, T173, V176, G178, S179, T180, L181, S186, K187, L188, E191, V192, N194, E198, M199, K202.

• Molecule 3: 40S ribosomal protein S1-A

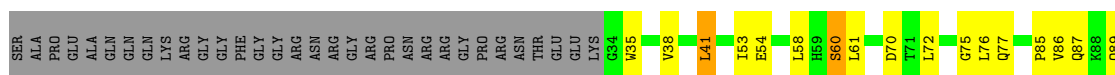
Chain s1: 59% 24% 15%

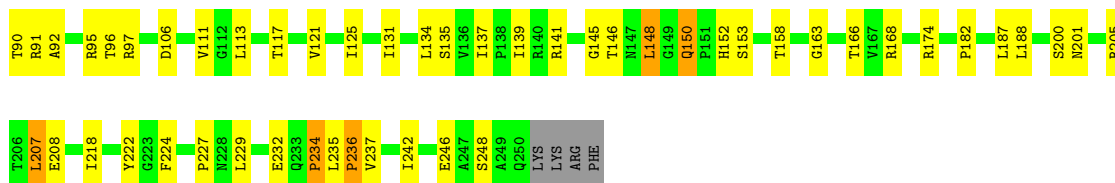


H232, G233, E234, G235, SER, GLY, GLU, GLU, LYS, GLY, LYS, VAL, THR, GLY, PHE, LYS, ASP, GLU, VAL, VAL, LEU, GLU, THR, THR, VAL.

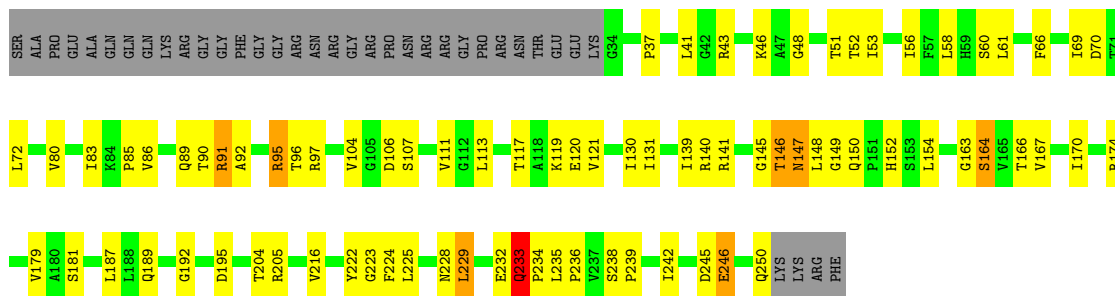
• Molecule 4: 40S ribosomal protein S2

Chain S2: 59% 24% 14%

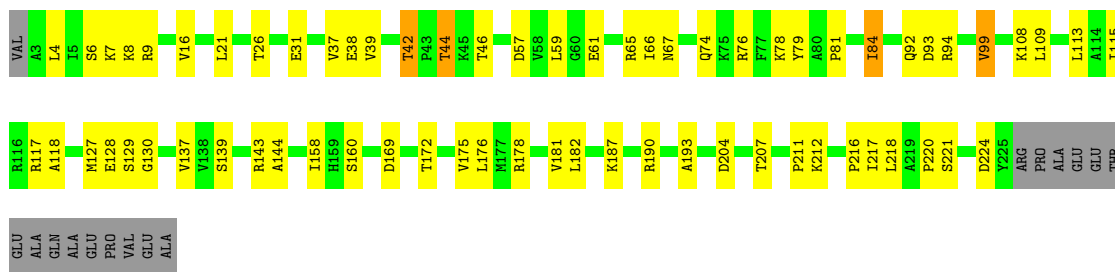




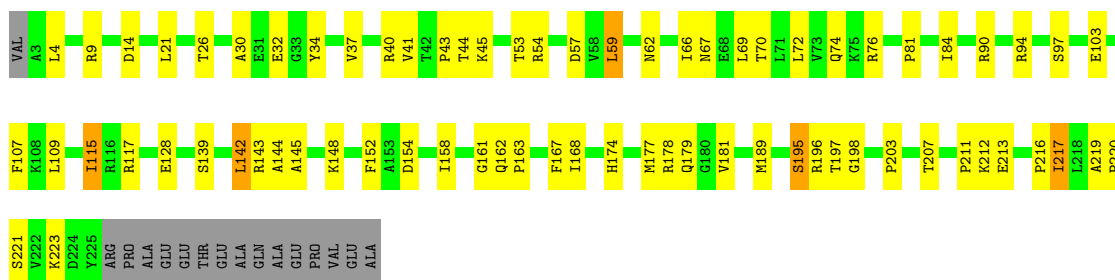
• Molecule 4: 40S ribosomal protein S2



• Molecule 5: 40S ribosomal protein S3

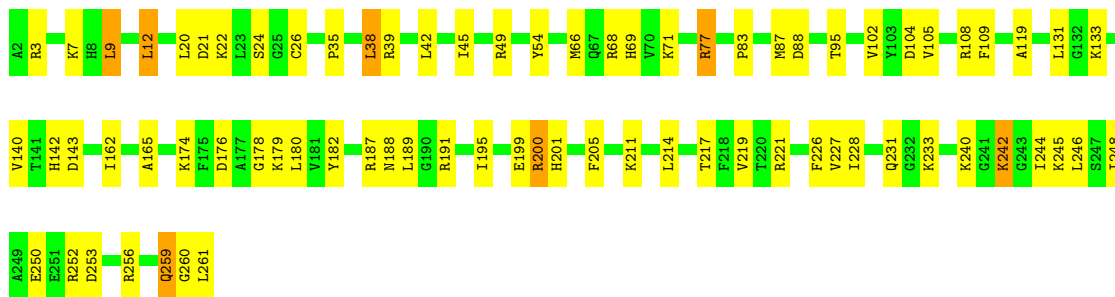


• Molecule 5: 40S ribosomal protein S3



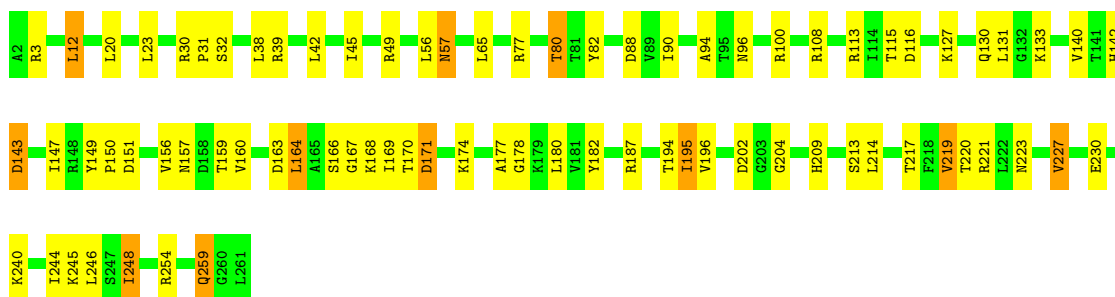
• Molecule 6: 40S ribosomal protein S4-A





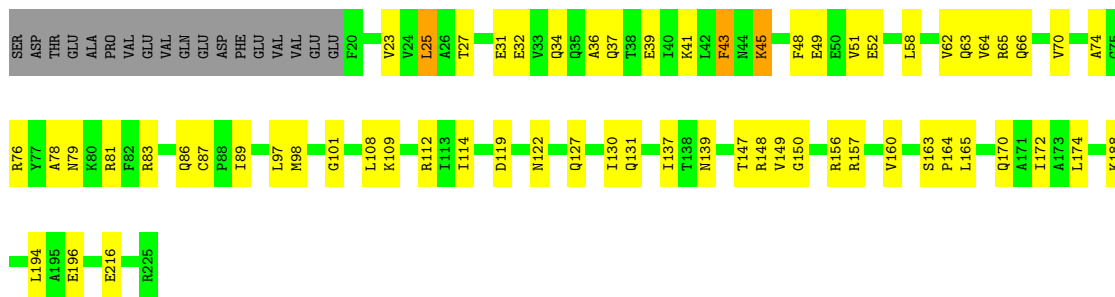
- Molecule 6: 40S ribosomal protein S4-A

Chain s4: 70% 26%



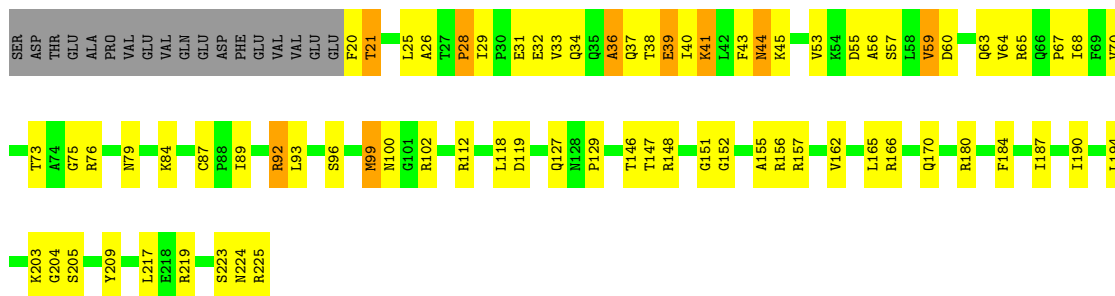
- Molecule 7: 40S ribosomal protein S5

Chain S5: 64% 27% 8%



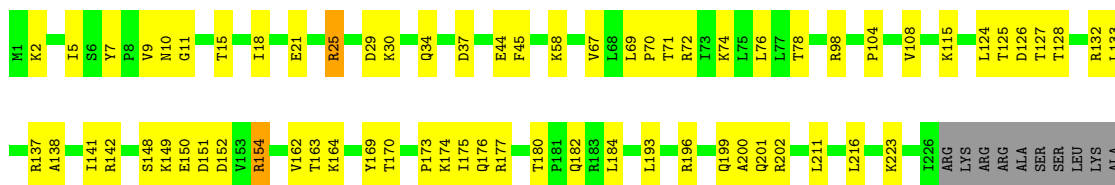
- Molecule 7: 40S ribosomal protein S5

Chain s5: 58% 29% 8%



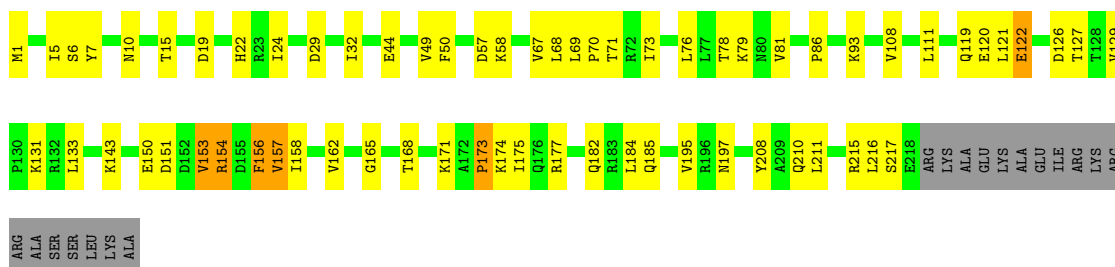
- Molecule 8: 40S ribosomal protein S6-A

Chain S6:  67% 28%



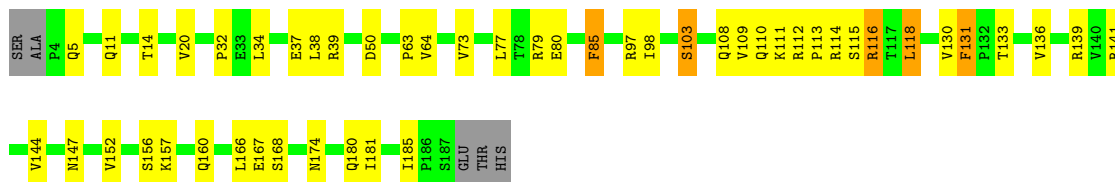
- Molecule 8: 40S ribosomal protein S6-A

Chain s6:  64% 25% 8%



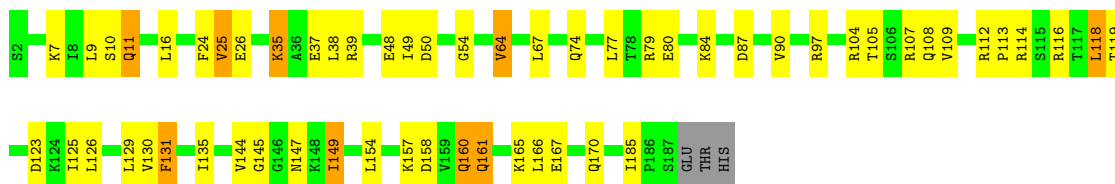
- Molecule 9: 40S ribosomal protein S7-A

Chain S7:  71% 23%



- Molecule 9: 40S ribosomal protein S7-A

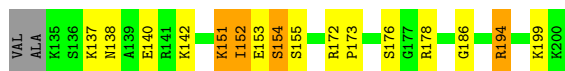
Chain s7:  68% 26% 5%



- Molecule 10: 40S ribosomal protein S8-A

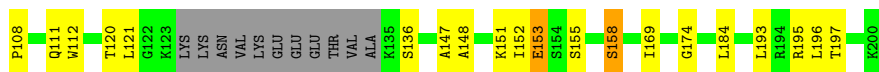
Chain S8:  72% 18% 6%





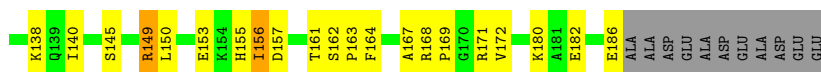
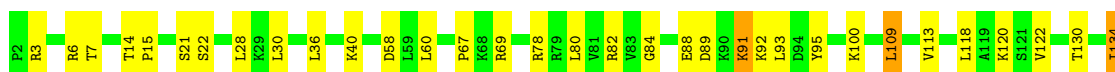
- Molecule 10: 40S ribosomal protein S8-A

Chain s8: 66% 26% 6%



- Molecule 11: 40S ribosomal protein S9-A

Chain S9: 67% 25% 6%



- Molecule 11: 40S ribosomal protein S9-A

Chain s9: 65% 26% 6%



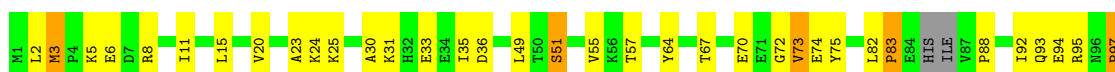
- Molecule 12: 40S ribosomal protein S10-A

Chain C0: 57% 30% 9%



- Molecule 12: 40S ribosomal protein S10-A

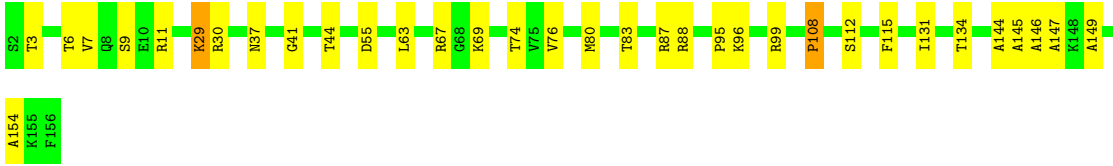
Chain c0: 58% 29% 5% 9%



T98  
 GLN  
 ARG  
 PRO  
 GLN  
 ARG  
 ARG  
 TYR

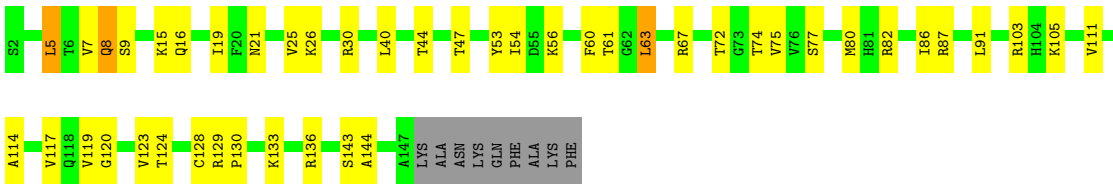
• Molecule 13: 40S ribosomal protein S11-A

Chain C1: 78% 21%



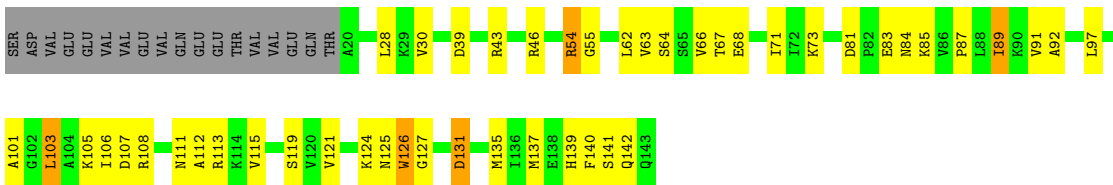
• Molecule 13: 40S ribosomal protein S11-A

Chain c1: 65% 28% 6%



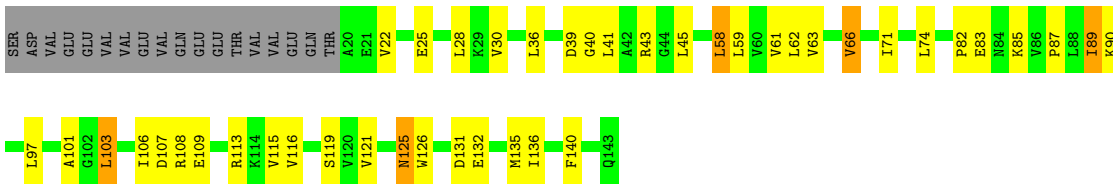
• Molecule 14: 40S ribosomal protein S12

Chain C2: 54% 30% 13%



• Molecule 14: 40S ribosomal protein S12

Chain c2: 57% 27% 13%



• Molecule 15: 40S ribosomal protein S13

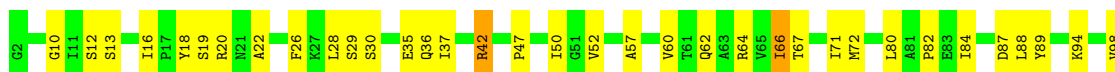
Chain C3: 75% 24%



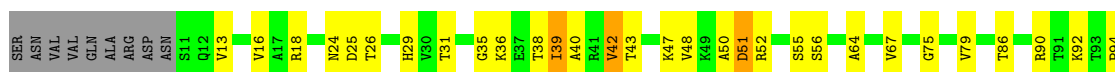




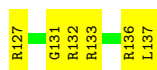
- Molecule 15: 40S ribosomal protein S13



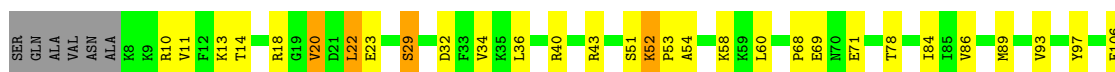
- Molecule 16: 40S ribosomal protein S14-A



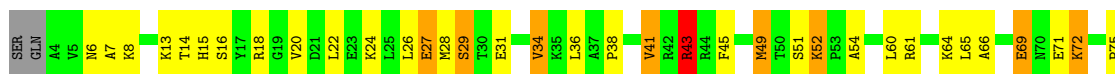
- Molecule 16: 40S ribosomal protein S14-A



- Molecule 17: 40S ribosomal protein S15

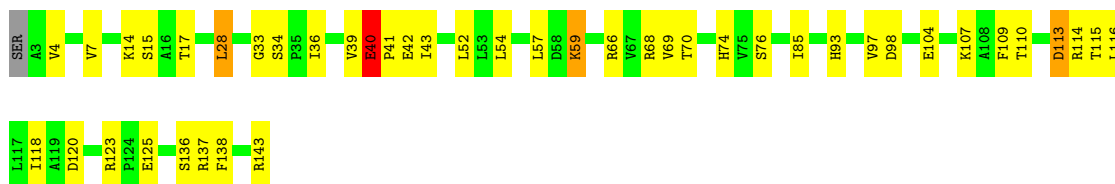


- Molecule 17: 40S ribosomal protein S15

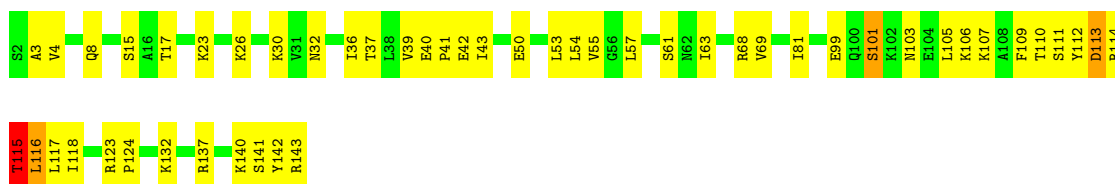




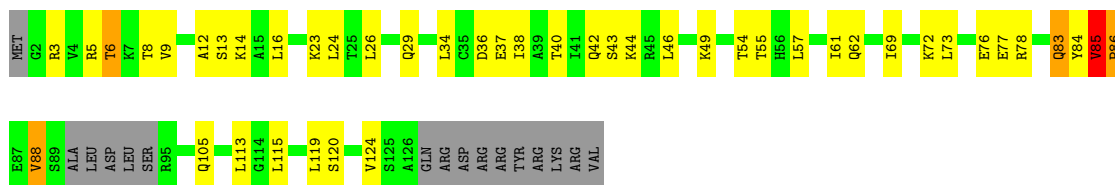
• Molecule 18: 40S ribosomal protein S16-A



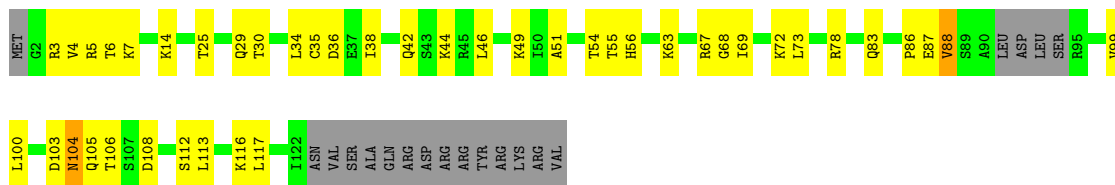
• Molecule 18: 40S ribosomal protein S16-A



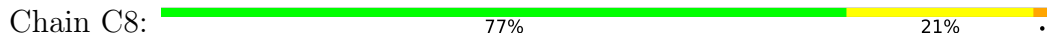
• Molecule 19: 40S ribosomal protein S17-A



• Molecule 19: 40S ribosomal protein S17-A



• Molecule 20: 40S ribosomal protein S18-A




R145  
A146


- Molecule 20: 40S ribosomal protein S18-A

Chain c8:  66% 28% 6%

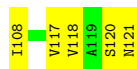
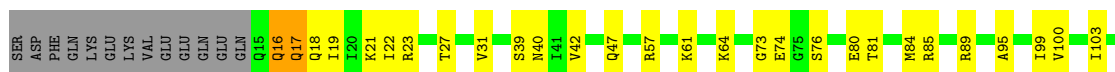
- Molecule 21: 40S ribosomal protein S19-A

Chain C9:  73% 24%

- Molecule 21: 40S ribosomal protein S19-A

Chain c9:  75% 22%

- Molecule 22: 40S ribosomal protein S20

Chain D0:  62% 26% 11%

- Molecule 22: 40S ribosomal protein S20

Chain d0:  49% 38% 5% 8%



- Molecule 23: 40S ribosomal protein S21-A



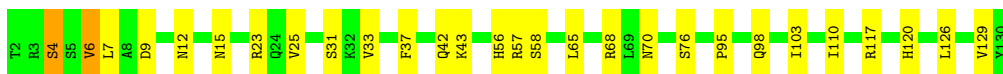
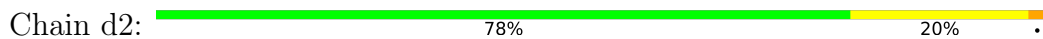
- Molecule 23: 40S ribosomal protein S21-A



- Molecule 24: 40S ribosomal protein S22-A



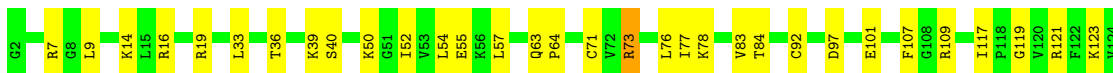
- Molecule 24: 40S ribosomal protein S22-A

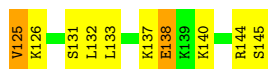


- Molecule 25: 40S ribosomal protein S23-A

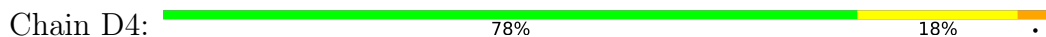


- Molecule 25: 40S ribosomal protein S23-A

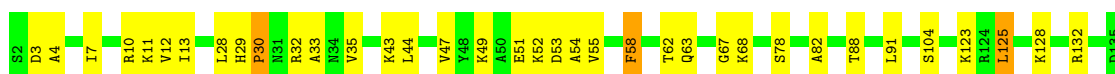




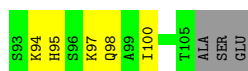
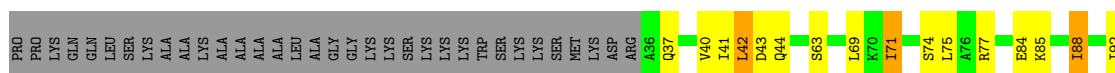
- Molecule 26: 40S ribosomal protein S24-A



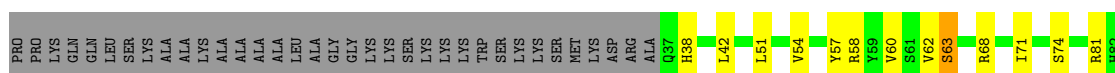
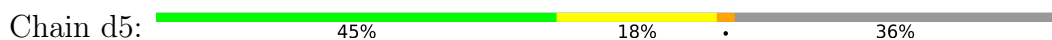
- Molecule 26: 40S ribosomal protein S24-A



- Molecule 27: 40S ribosomal protein S25-A



- Molecule 27: 40S ribosomal protein S25-A



- Molecule 28: 40S ribosomal protein S26-B



- Molecule 28: 40S ribosomal protein S26-B





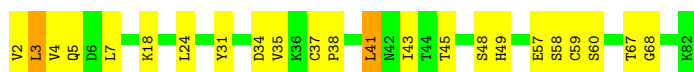
- Molecule 29: 40S ribosomal protein S27-A

Chain D7: 75% 23%



- Molecule 29: 40S ribosomal protein S27-A

Chain d7: 72% 26%



- Molecule 30: 40S ribosomal protein S28-A

Chain D8: 65% 27% 5%



- Molecule 30: 40S ribosomal protein S28-A

Chain d8: 65% 26% 5% 5%



- Molecule 31: 40S ribosomal protein S29-A

Chain D9: 64% 27% 5%



- Molecule 31: 40S ribosomal protein S29-A

Chain d9: 58% 35%



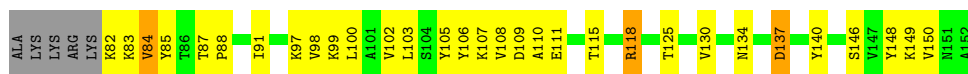
- Molecule 32: 40S ribosomal protein S30-A

Chain E0:  62% 37%




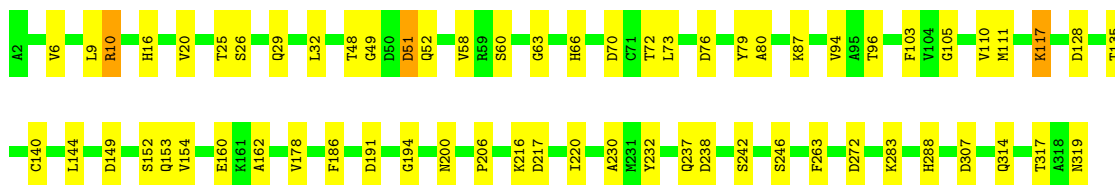
- Molecule 33: Ubiquitin-40S ribosomal protein S31

Chain E1:  53% 37% 7%




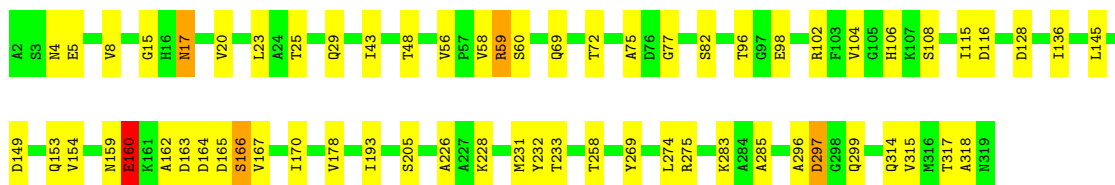
- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

Chain SR:  80% 19%



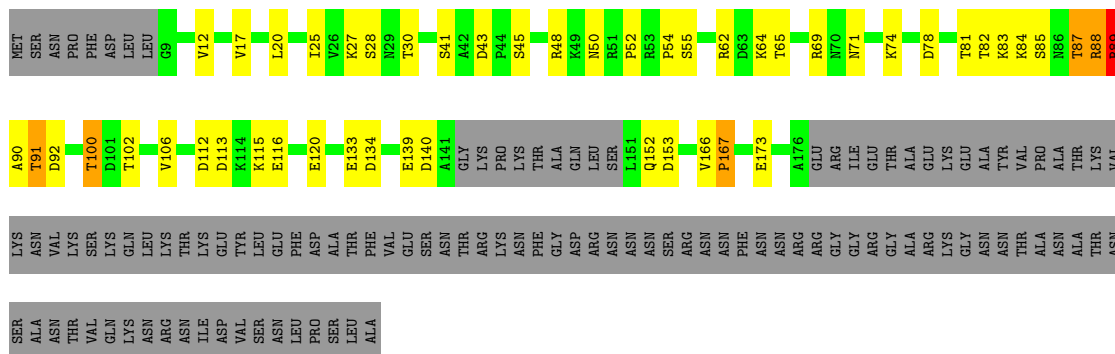
- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

Chain sR:  80% 19%



- Molecule 35: Suppressor protein STM1

Chain SM:  40% 16% 42%



- Molecule 35: Suppressor protein STM1



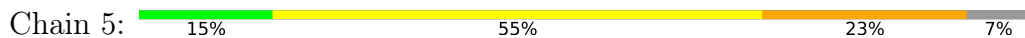


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• Molecule 36: 25S ribosomal RNA

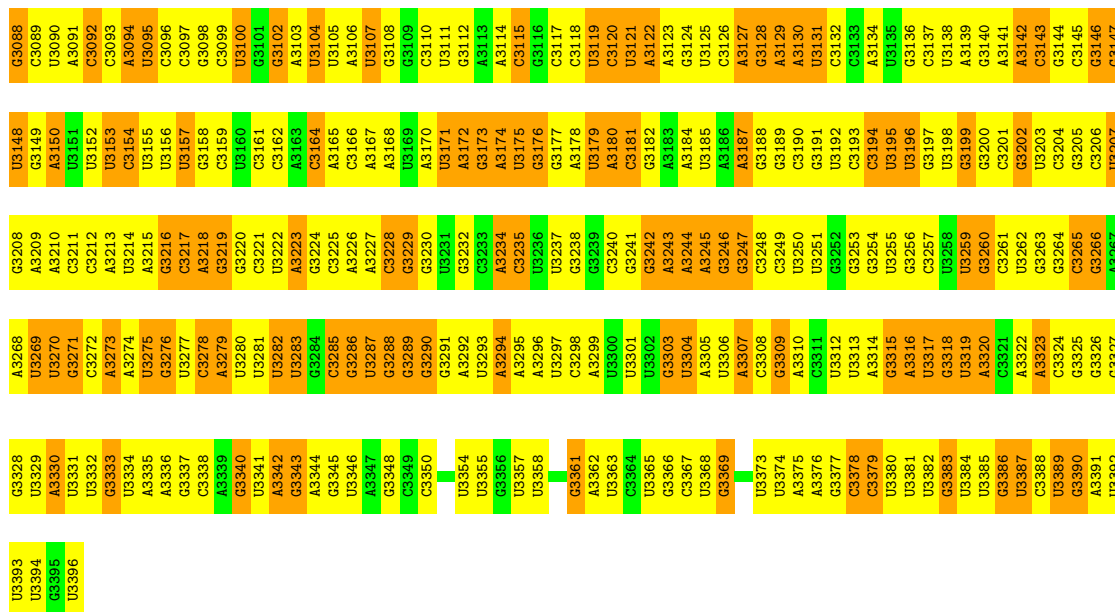


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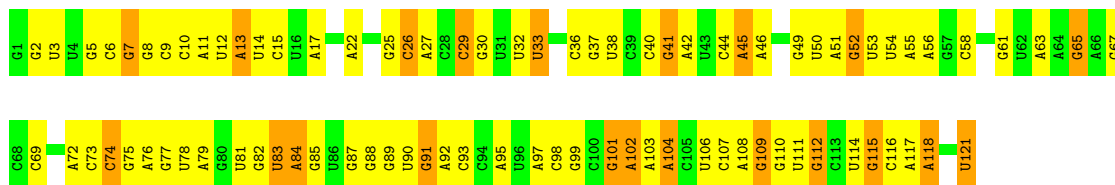
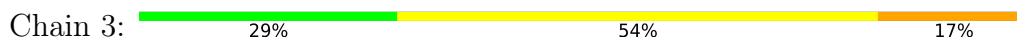
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G1010	G950	C890	G705	C768	A705	A645	C577	G514	G330	A285	C200	C132	C69
A1011	A951	C891	A830	G769	A706	A646	A578	C515	G331	A286	C201	C133	A70
G1012	A952	U892	G832	G770	U707	A647	G579	A516	G332	G267	G202	C134	A71
G1013	G953	C893	G833	A771	G708	C648	C580	G517	C333	A288	G206	C135	A72
U1014	U954	G894	G834	U772	A709	A649	U581	G518	A334	G269	G207	G136	C73
U1015	U955	A895	U634	U773	A710	C650	G582	A519	A335	U270	U208	G137	G74
U1016	U956	A896	G835	G774	A711	G651	G583	U520	A338	C208	G138	G75	G75
C1017	C957	U897	A836	A775	G712	G652	G584	A521	C339	A272	A209	G139	G76
U1018	C958	U898	A837	U776	G713	A653	A585	A522	C340	A273	A210	A143	A77
U1019	U959	U899	U777	G714	G714	C654	C586	A523	G400	G274	A211	G142	U78
G1020	U960	U900	U778	A715	A715	C655	U587	U524	G341	G275	G212	G143	U79
G1021	C961	G901	A841	A716	A716	A656	G588	C525	A402	U276	A213	A144	G80
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C1023	G963	U903	A843	G718	G718	G658	G590	A527	A344	U278	G215	U146	C82
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C969	C969	C909	G787	G787	U724	U664	C596	A533	C350	A284	U228	U153	A89
A970	A970	C910	U850	C788	G725	A665	U601	U534	A351	A285	G229	U154	C90
G971	G971	C911	C851	A789	G726	A666	G604	U536	A352	U286	U233	G155	G91
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A992	U932	U932	U872	A810	C749	U687	U627	U559	A372	A306	G244	U182	C112
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G1066	A1003	U943	A883	U821	G760	U698	G638	A570	U322	U257	U257	C192	A123
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U1071	U1071	C945	U885	C823	G763	C700	U640	A572	U385	A324	C259	U195	U127
A1005	A1005	U946	C886	C824	G701	G701	G641	C573	U386	A325	C260	G196	G128
U1073	U1073	G947	G887	U825	C702	C702	U642	U574	G388	A327	U262	G197	U129

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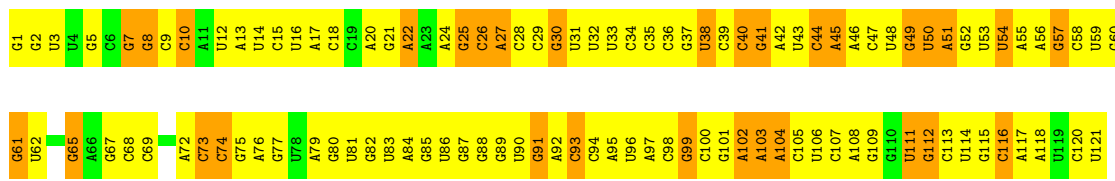
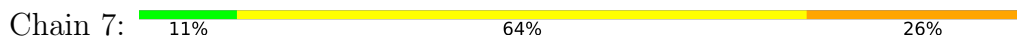
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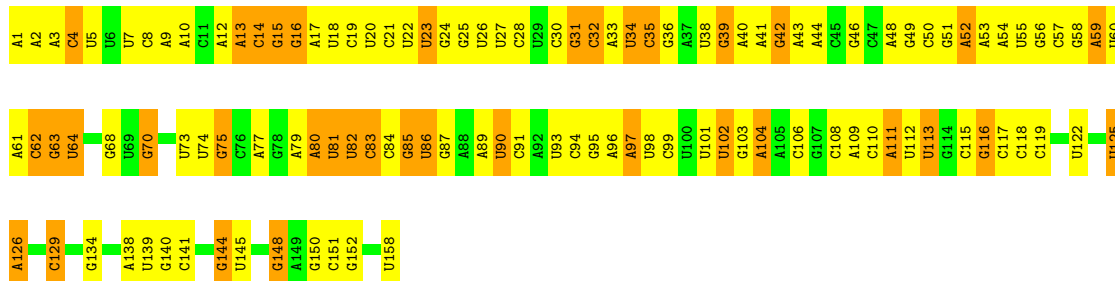
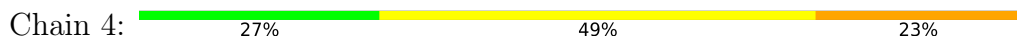
• Molecule 37: 5S ribosomal RNA



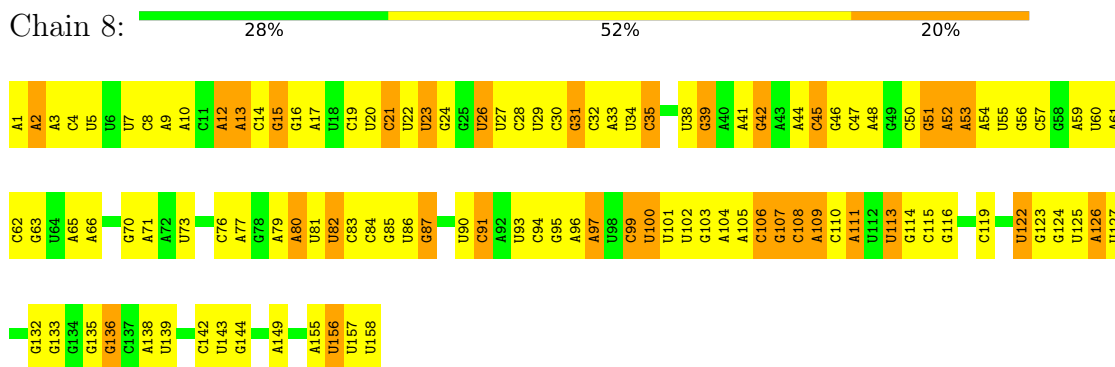
• Molecule 37: 5S ribosomal RNA



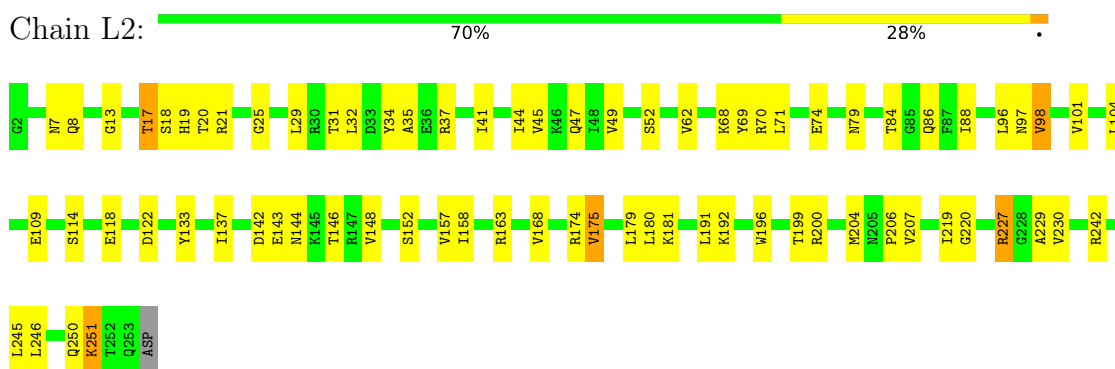
• Molecule 38: 5.8S ribosomal RNA



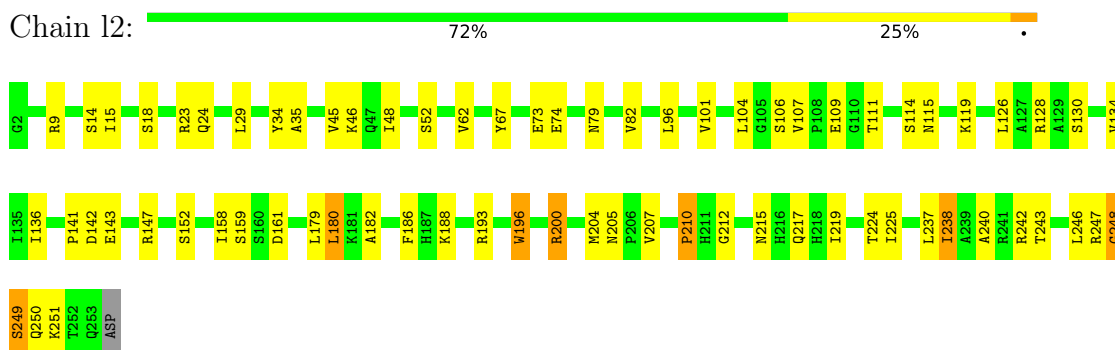
- Molecule 38: 5.8S ribosomal RNA



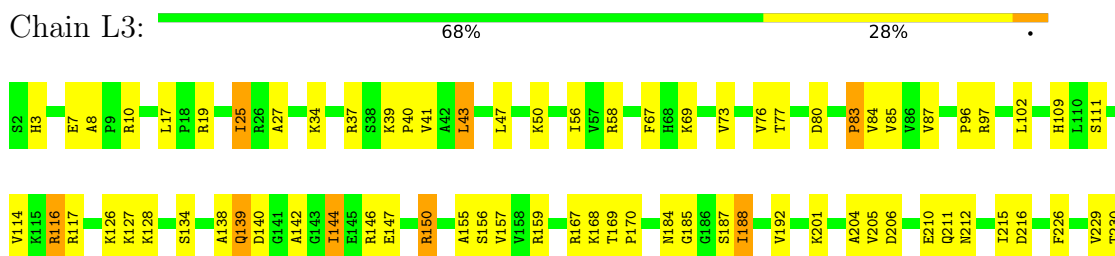
- Molecule 39: 60S ribosomal protein L2-A



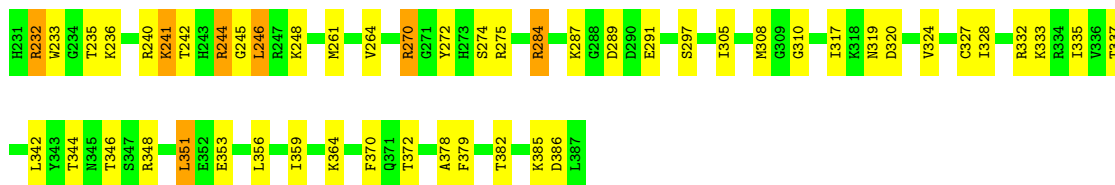
- Molecule 39: 60S ribosomal protein L2-A



- Molecule 40: 60S ribosomal protein L3

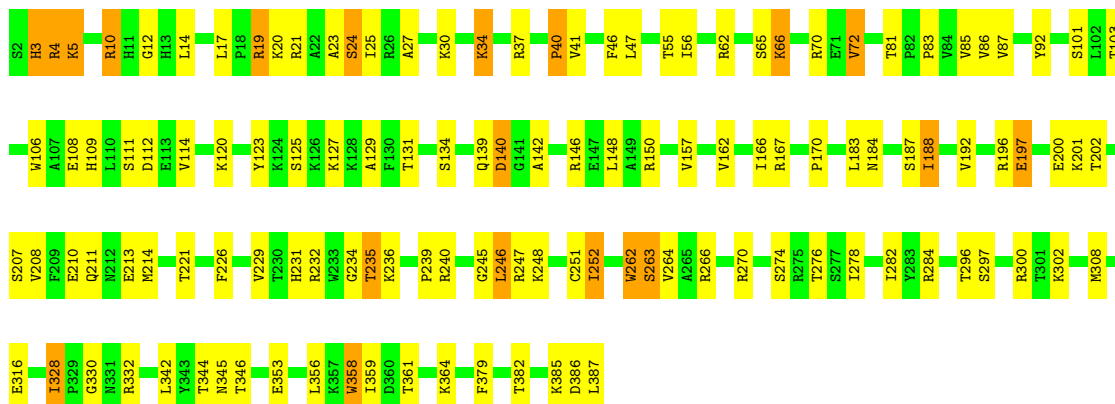






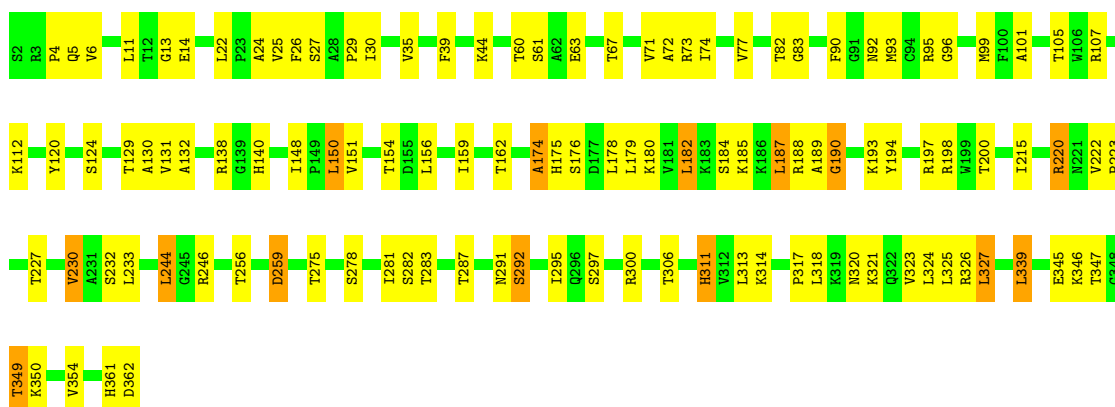
- Molecule 40: 60S ribosomal protein L3

Chain l3: 67% 27% 5%



- Molecule 41: 60S ribosomal protein L4-A

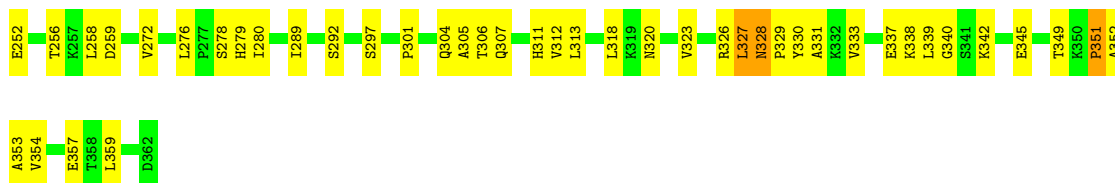
Chain L4: 68% 28% 4%



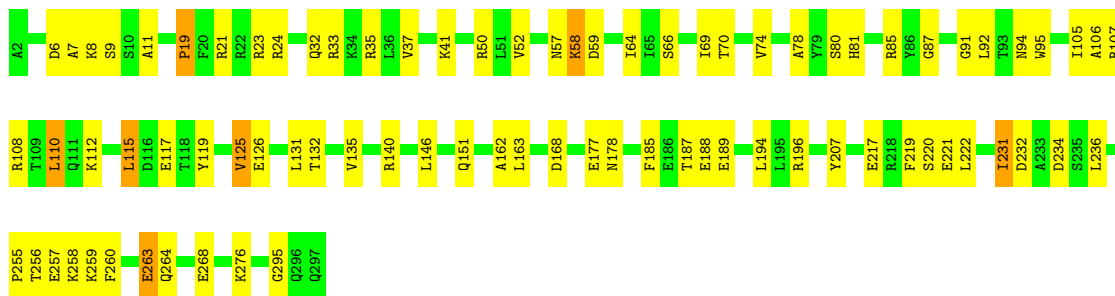
- Molecule 41: 60S ribosomal protein L4-A

Chain l4: 68% 29% 3%

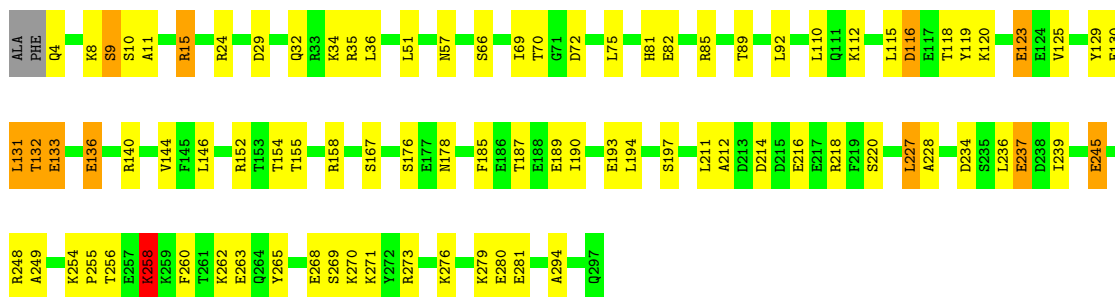




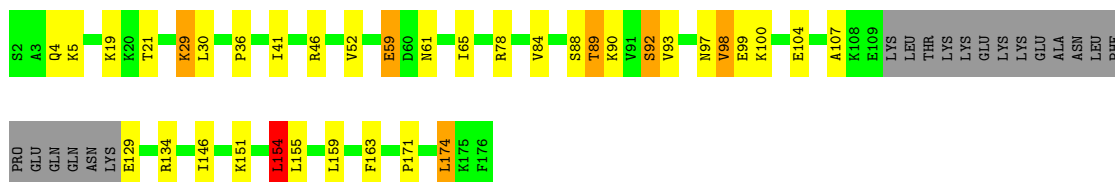
• Molecule 42: 60S ribosomal protein L5



• Molecule 42: 60S ribosomal protein L5



• Molecule 43: 60S ribosomal protein L6-A



• Molecule 43: 60S ribosomal protein L6-A

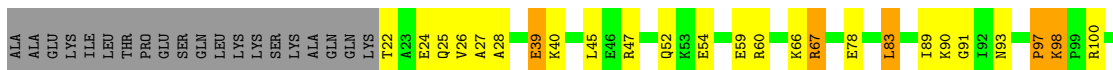




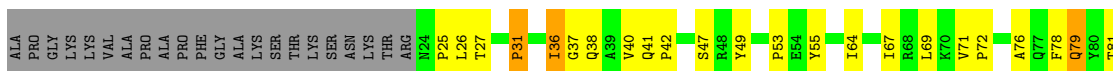
- Molecule 44: 60S ribosomal protein L7-A



- Molecule 44: 60S ribosomal protein L7-A

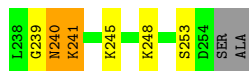


- Molecule 45: 60S ribosomal protein L8-A



- Molecule 45: 60S ribosomal protein L8-A

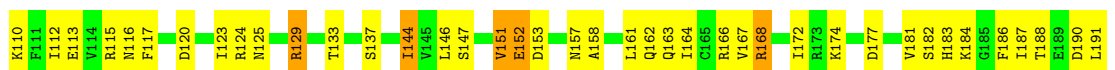
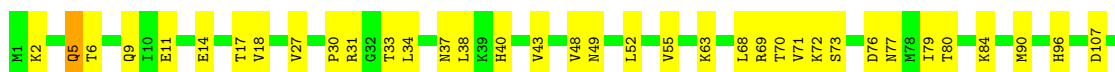




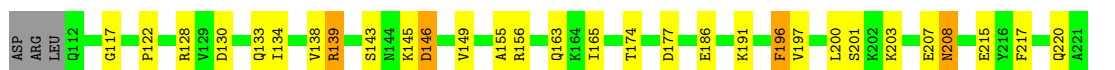
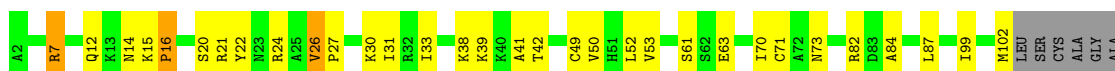
• Molecule 46: 60S ribosomal protein L9-A



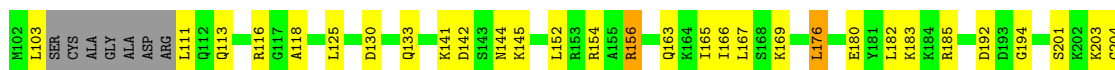
• Molecule 46: 60S ribosomal protein L9-A

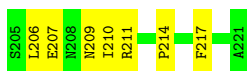


• Molecule 47: 60S ribosomal protein L10



• Molecule 47: 60S ribosomal protein L10





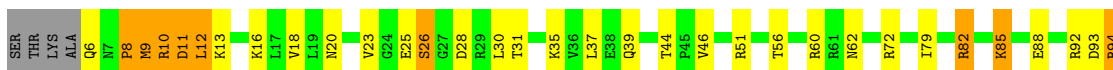
- Molecule 48: 60S ribosomal protein L11-B

Chain M1: 66% 27%



- Molecule 48: 60S ribosomal protein L11-B

Chain m1: 57% 32% 8%



- Molecule 49: 60S ribosomal protein L13-A

Chain M3: 71% 24%



- Molecule 49: 60S ribosomal protein L13-A

Chain m3: 59% 37%



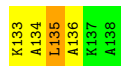
- Molecule 50: 60S ribosomal protein L14-A

Chain M4: 69% 29%



- Molecule 50: 60S ribosomal protein L14-A

Chain m4: 73% 26%



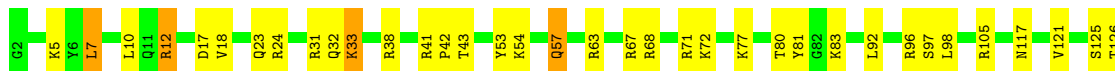
- Molecule 51: 60S ribosomal protein L15-A

Chain M5: 78% 20%



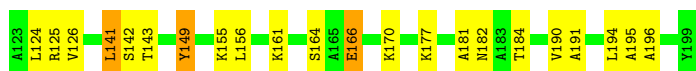
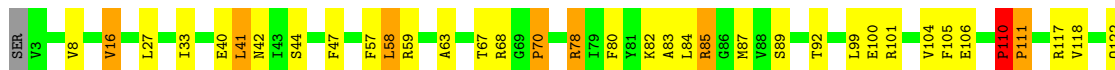
- Molecule 51: 60S ribosomal protein L15-A

Chain m5: 73% 25%



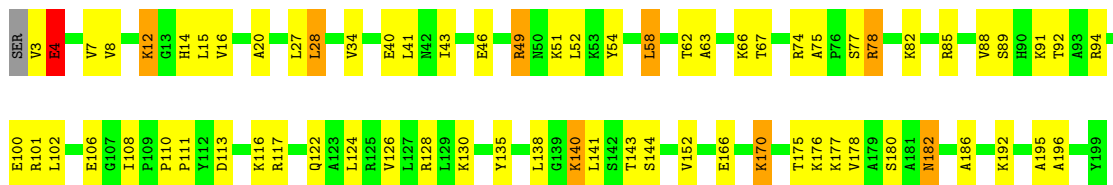
- Molecule 52: 60S ribosomal protein L16-A

Chain M6: 70% 24% 5%

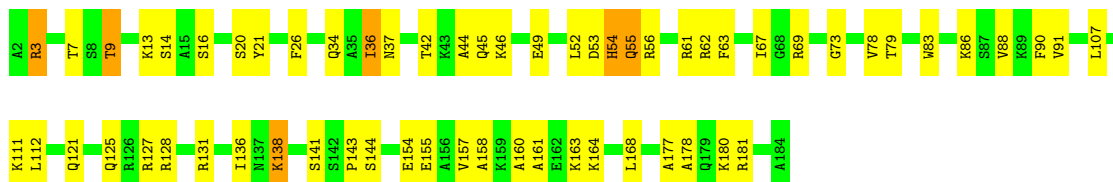


- Molecule 52: 60S ribosomal protein L16-A

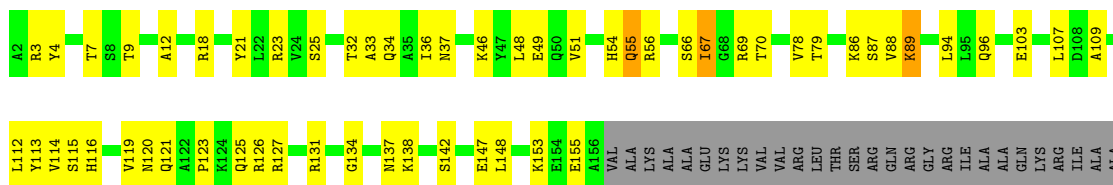
Chain m6: 64% 31%



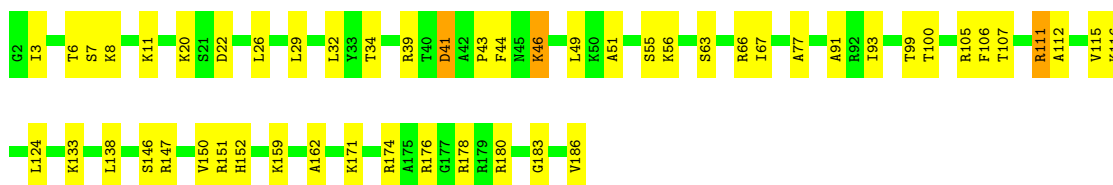
- Molecule 53: 60S ribosomal protein L17-A



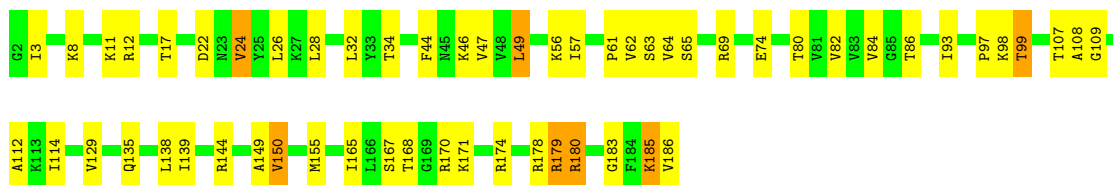
- Molecule 53: 60S ribosomal protein L17-A



- Molecule 54: 60S ribosomal protein L18-A

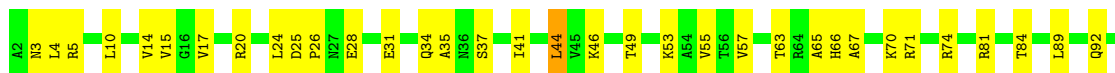


- Molecule 54: 60S ribosomal protein L18-A



- Molecule 55: 60S ribosomal protein L19-A





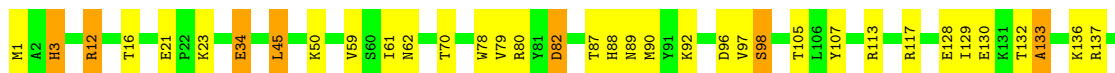
- Molecule 55: 60S ribosomal protein L19-A



- Molecule 56: 60S ribosomal protein L20-A



- Molecule 56: 60S ribosomal protein L20-A



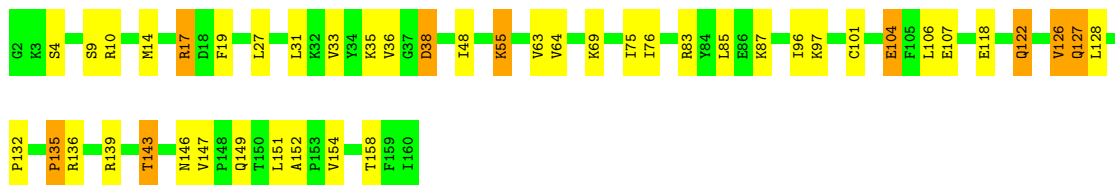
- Molecule 57: 60S ribosomal protein L21-A



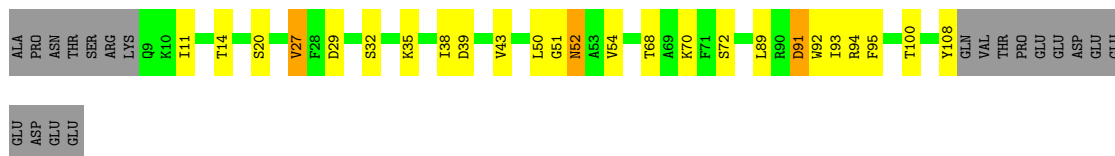
- Molecule 57: 60S ribosomal protein L21-A



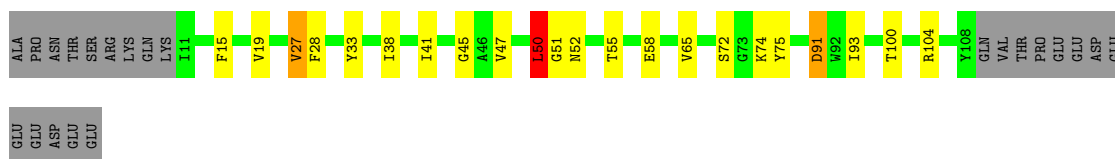




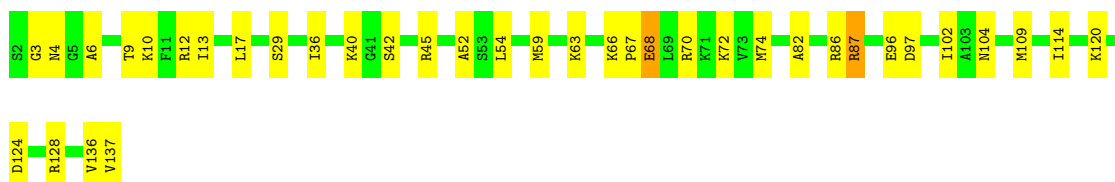
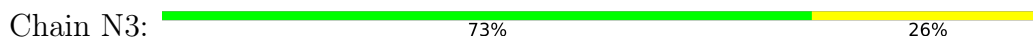
- Molecule 58: 60S ribosomal protein L22-A



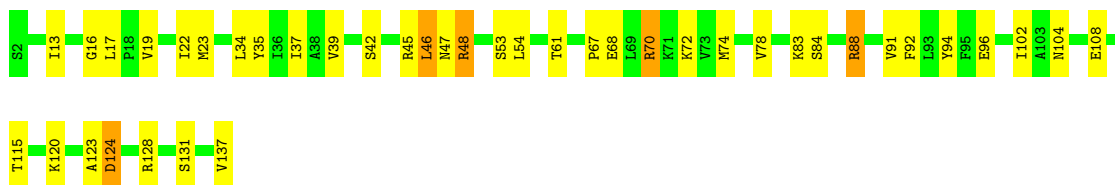
- Molecule 58: 60S ribosomal protein L22-A



- Molecule 59: 60S ribosomal protein L23-A

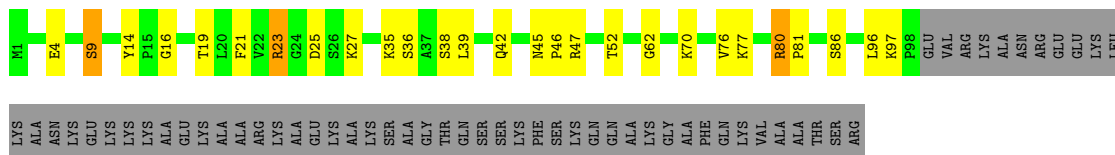


- Molecule 59: 60S ribosomal protein L23-A



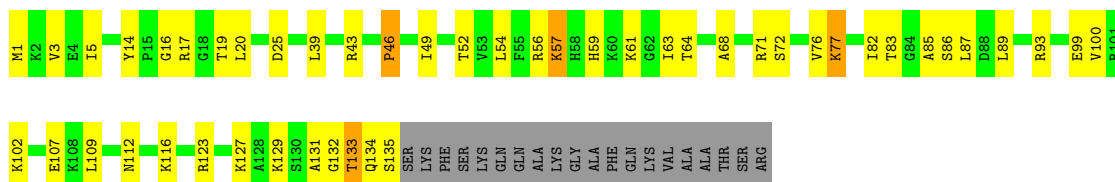
- Molecule 60: 60S ribosomal protein L24-A





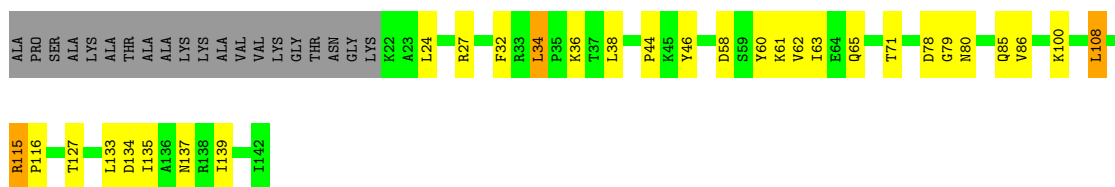
- Molecule 60: 60S ribosomal protein L24-A

Chain n4: 56% 28% 13%



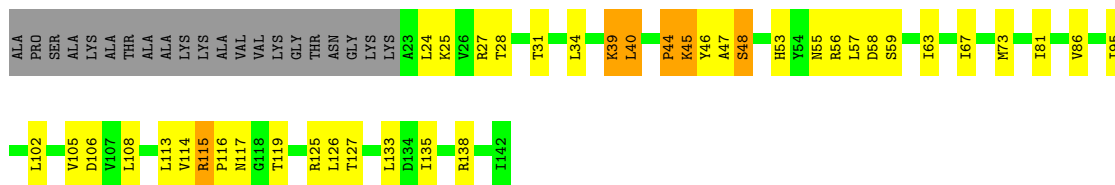
- Molecule 61: 60S ribosomal protein L25

Chain N5: 65% 19% 14%



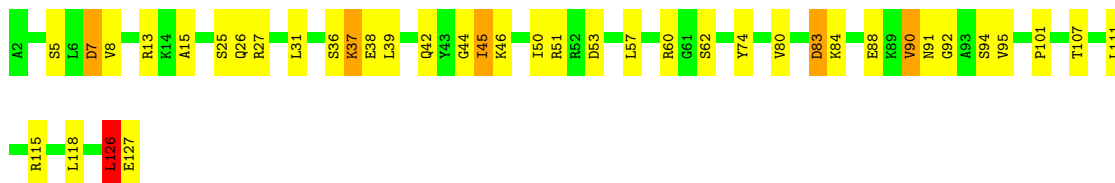
- Molecule 61: 60S ribosomal protein L25

Chain n5: 56% 25% 15%



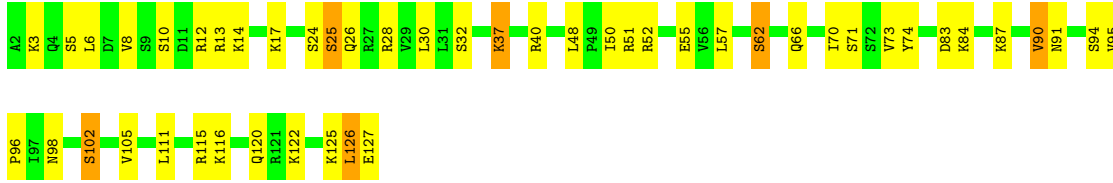
- Molecule 62: 60S ribosomal protein L26-A

Chain N6: 68% 27% 5%



- Molecule 62: 60S ribosomal protein L26-A

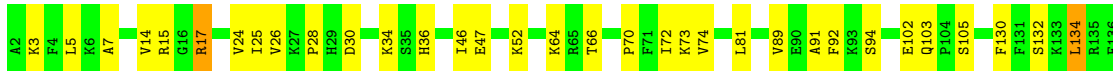
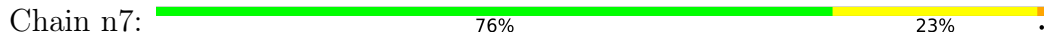
Chain n6: 62% 33% 5%



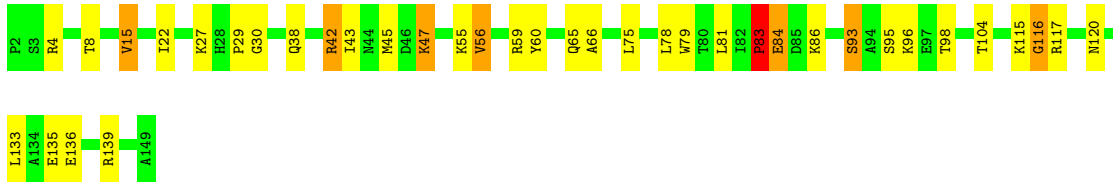
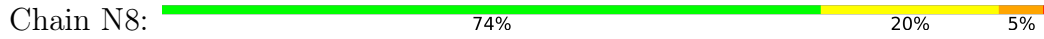
- Molecule 63: 60S ribosomal protein L27-A



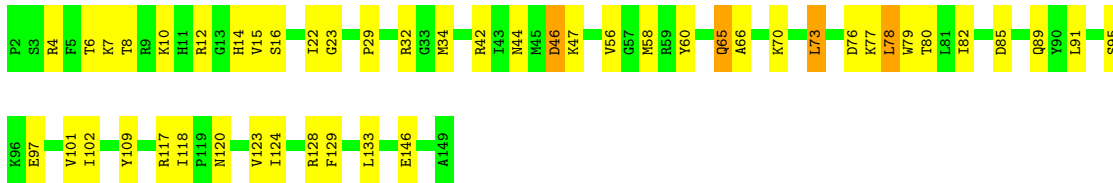
- Molecule 63: 60S ribosomal protein L27-A



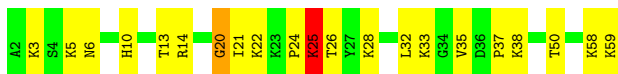
- Molecule 64: 60S ribosomal protein L28



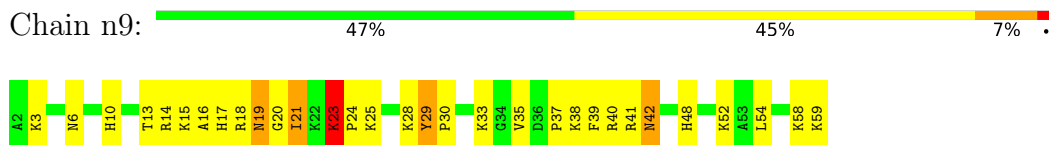
- Molecule 64: 60S ribosomal protein L28



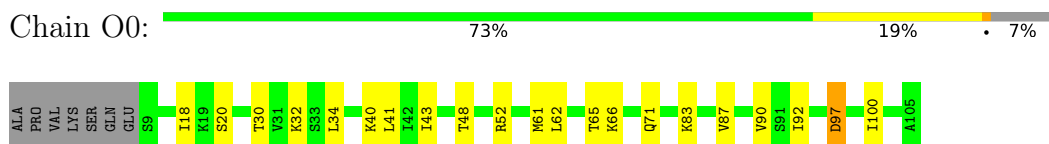
- Molecule 65: 60S ribosomal protein L29



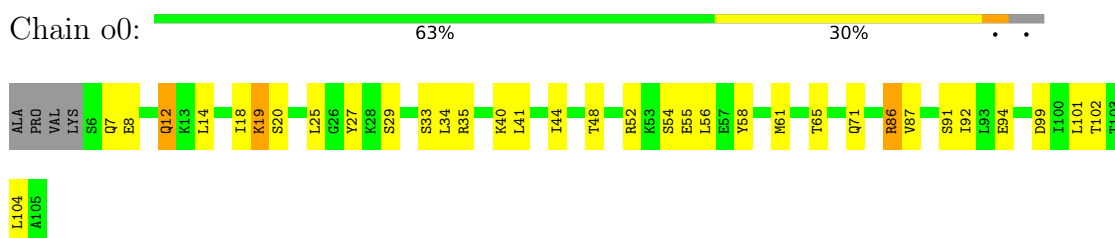
• Molecule 65: 60S ribosomal protein L29



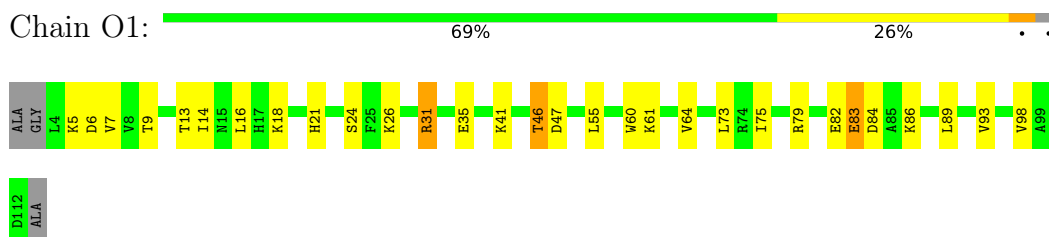
• Molecule 66: 60S ribosomal protein L30



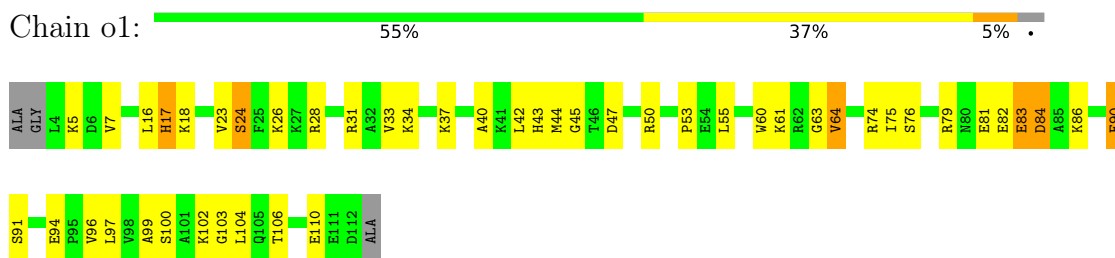
• Molecule 66: 60S ribosomal protein L30



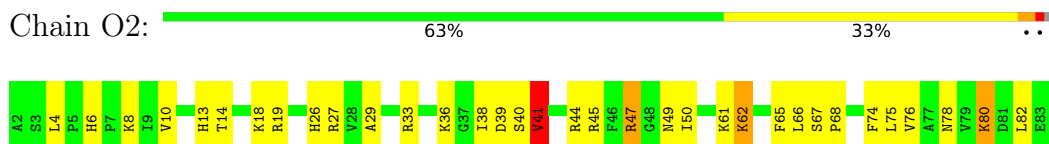
• Molecule 67: 60S ribosomal protein L31-A



• Molecule 67: 60S ribosomal protein L31-A



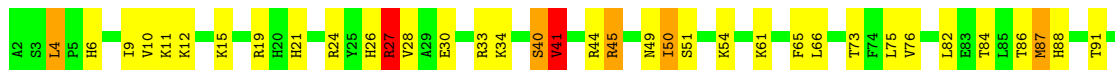
• Molecule 68: 60S ribosomal protein L32





- Molecule 68: 60S ribosomal protein L32

Chain o2: 67% 25% 5% ..



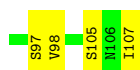
- Molecule 69: 60S ribosomal protein L33-A

Chain O3: 74% 23% .



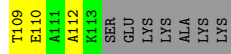
- Molecule 69: 60S ribosomal protein L33-A

Chain o3: 65% 30% 5%



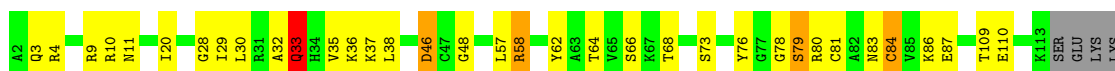
- Molecule 70: 60S ribosomal protein L34-A

Chain O4: 61% 27% 6% 6%



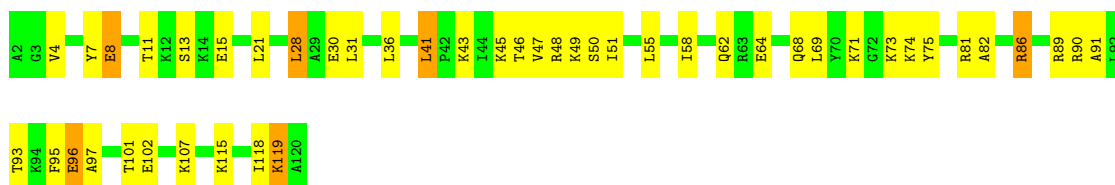
- Molecule 70: 60S ribosomal protein L34-A

Chain o4: 65% 25% .. 6%



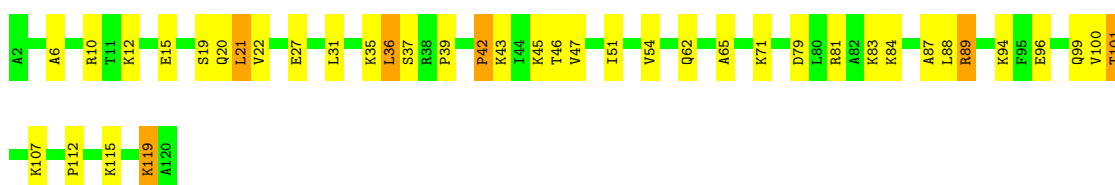
- Molecule 71: 60S ribosomal protein L35-A

Chain O5:  61% 34% 5%



- Molecule 71: 60S ribosomal protein L35-A

Chain o5:  66% 29% 5%



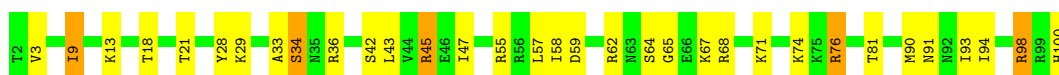
- Molecule 72: 60S ribosomal protein L36-A

Chain O6:  70% 21% 9%



- Molecule 72: 60S ribosomal protein L36-A

Chain o6:  67% 28% 5%



- Molecule 73: 60S ribosomal protein L37-A

Chain O7:  72% 23% 5%



- Molecule 73: 60S ribosomal protein L37-A

Chain o7:  69% 23% 7%




- Molecule 74: 60S ribosomal protein L38

Chain O8:  71% 27%



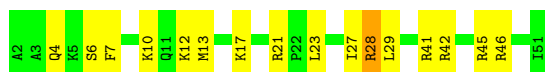
- Molecule 74: 60S ribosomal protein L38

Chain o8:  77% 22%



- Molecule 75: 60S ribosomal protein L39

Chain O9:  68% 30%



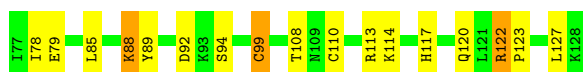
- Molecule 75: 60S ribosomal protein L39

Chain o9:  70% 30%



- Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain Q0:  67% 27% 6%



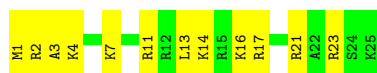
- Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain q0:  56% 35% 10%



- Molecule 77: 60S ribosomal protein L41-A

Chain Q1:  52% 48%



- Molecule 77: 60S ribosomal protein L41-A

Chain q1:  48% 40% 12%



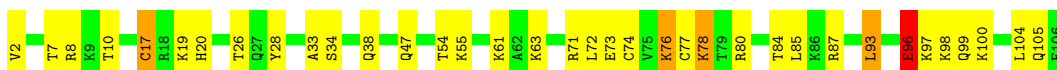
- Molecule 78: 60S ribosomal protein L42-A

Chain Q2:  69% 29%



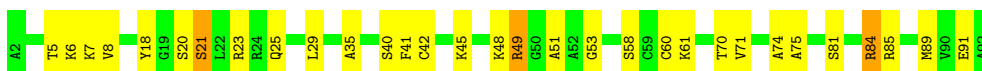
- Molecule 78: 60S ribosomal protein L42-A

Chain q2:  66% 30%



- Molecule 79: 60S ribosomal protein L43-A

Chain Q3:  66% 31%



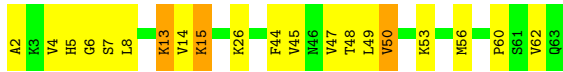
- Molecule 79: 60S ribosomal protein L43-A

Chain q3:  70% 24% 5%



- Molecule 80: 40S ribosomal protein S30-A

Chain e0:  68% 27% 5%



- Molecule 81: Ubiquitin-40S ribosomal protein S31

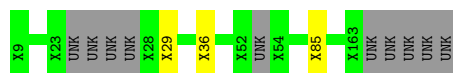
Chain e1:  46% 47% 7%




- Molecule 82: unknown protein chain m2

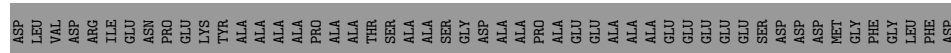
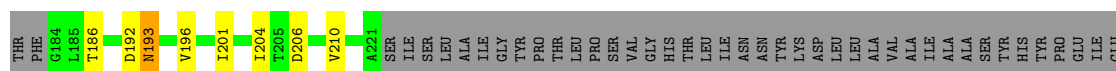
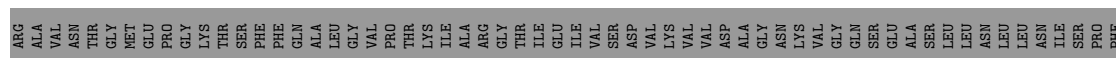
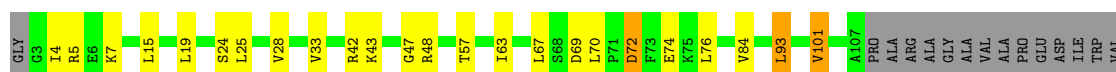


Chain m2:  92% 6%



- Molecule 83: 60S acidic ribosomal protein P0

Chain p0:  36% 9% 54%



- Molecule 84: unknown protein chain p1

Chain p1:  100%

There are no outlier residues recorded for this chain.

- Molecule 85: unknown protein chain p2

Chain p2:  100%

There are no outlier residues recorded for this chain.

## 4 Data and refinement statistics

EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	437.00Å 286.75Å 305.18Å 90.00° 99.24° 90.00°	Depositor
Resolution (Å)	135.58 – 3.60	Depositor
% Data completeness (in resolution range)	100.0 (135.58-3.60)	Depositor
$R_{merge}$	0.52	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.26 (at 3.58Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: dev_1702)	Depositor
R, $R_{free}$	0.190 , 0.267	Depositor
Wilson B-factor (Å <sup>2</sup> )	115.6	Xtrriage
Anisotropy	0.083	Xtrriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.43$ , $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
Total number of atoms	411095	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	98.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.62% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 5 Model quality i

### 5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: GET, MG, ZN, OHX

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	2	1.08	91/41698 (0.2%)	1.83	1528/64972 (2.4%)
1	6	1.44	367/42663 (0.9%)	2.19	2982/66472 (4.5%)
2	S0	0.60	0/1617	0.83	0/2215
2	s0	0.75	0/1623	0.92	1/2222 (0.0%)
3	S1	0.46	0/1735	0.74	0/2335
3	s1	0.67	0/1748	0.87	3/2352 (0.1%)
4	S2	0.74	2/1665 (0.1%)	0.90	2/2263 (0.1%)
4	s2	0.87	1/1665 (0.1%)	1.01	4/2263 (0.2%)
5	S3	0.72	0/1759	0.86	1/2368 (0.0%)
5	s3	0.72	0/1759	0.89	1/2368 (0.0%)
6	S4	0.65	0/2109	0.86	2/2839 (0.1%)
6	s4	0.77	0/2109	0.90	1/2839 (0.0%)
7	S5	0.54	0/1629	0.76	0/2202
7	s5	0.89	1/1629 (0.1%)	1.02	4/2202 (0.2%)
8	S6	0.64	0/1823	0.79	0/2439
8	s6	0.88	0/1779	0.99	2/2379 (0.1%)
9	S7	0.54	0/1506	0.75	0/2028
9	s7	0.68	0/1516	0.91	2/2043 (0.1%)
10	S8	0.79	0/1514	0.92	1/2021 (0.0%)
10	s8	0.86	0/1514	0.94	1/2021 (0.0%)
11	S9	0.65	0/1519	0.84	1/2035 (0.0%)
11	s9	0.79	0/1519	0.91	2/2035 (0.1%)
12	C0	0.66	0/790	0.86	2/1069 (0.2%)
12	c0	0.56	0/777	0.87	2/1049 (0.2%)
13	C1	0.82	0/1240	0.88	0/1675
13	c1	0.91	0/1194	1.00	2/1610 (0.1%)
14	C2	0.51	0/900	0.80	1/1224 (0.1%)
14	c2	0.46	0/900	0.69	1/1224 (0.1%)
15	C3	0.59	0/1215	0.76	0/1638
15	c3	0.80	0/1215	0.96	2/1638 (0.1%)
16	C4	0.50	0/901	0.79	0/1217
16	c4	0.76	0/960	0.91	0/1290

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	C5	0.69	0/998	0.81	0/1341
17	c5	0.89	0/1060	1.05	3/1426 (0.2%)
18	C6	0.60	0/1125	0.89	3/1510 (0.2%)
18	c6	0.93	0/1131	1.06	2/1518 (0.1%)
19	C7	0.59	0/935	0.87	3/1254 (0.2%)
19	c7	0.80	0/914	0.91	1/1224 (0.1%)
20	C8	0.61	0/1211	0.82	0/1628
20	c8	0.92	2/1211 (0.2%)	1.08	5/1628 (0.3%)
21	C9	0.61	0/1130	0.83	0/1517
21	c9	0.94	1/1130 (0.1%)	1.01	2/1517 (0.1%)
22	D0	0.65	0/865	0.83	0/1169
22	d0	0.79	0/892	0.97	1/1205 (0.1%)
23	D1	0.65	0/693	0.88	2/935 (0.2%)
23	d1	0.79	0/693	0.92	0/935
24	D2	0.63	0/1038	0.89	1/1395 (0.1%)
24	d2	0.88	0/1038	0.98	1/1395 (0.1%)
25	D3	0.90	1/1139 (0.1%)	1.04	1/1518 (0.1%)
25	d3	1.17	5/1139 (0.4%)	1.14	4/1518 (0.3%)
26	D4	0.66	0/1087	0.80	0/1449
26	d4	0.77	0/1087	0.92	0/1449
27	D5	0.61	0/571	0.84	0/768
27	d5	0.81	0/566	0.96	0/761
28	D6	0.66	0/782	0.84	0/1047
28	d6	0.81	0/782	0.92	1/1047 (0.1%)
29	D7	0.53	0/620	0.81	1/838 (0.1%)
29	d7	0.67	0/620	0.93	2/838 (0.2%)
30	D8	0.49	0/499	0.74	0/670
30	d8	0.76	0/499	0.97	1/670 (0.1%)
31	D9	0.75	0/452	0.86	0/600
31	d9	0.97	0/452	0.97	0/600
32	E0	0.69	0/483	0.87	0/643
33	E1	0.65	0/577	0.90	0/770
34	SR	0.54	0/2494	0.72	0/3393
34	sR	0.69	0/2495	0.85	2/3395 (0.1%)
35	SM	0.72	0/1113	0.91	2/1502 (0.1%)
35	sM	0.77	0/682	0.98	1/921 (0.1%)
36	1	1.76	1434/75394 (1.9%)	2.53	7929/117545 (6.7%)
36	5	1.87	1867/75414 (2.5%)	2.61	8463/117575 (7.2%)
37	3	1.50	28/2883 (1.0%)	2.28	214/4491 (4.8%)
37	7	2.04	91/2883 (3.2%)	2.85	410/4491 (9.1%)
38	4	1.54	29/3746 (0.8%)	2.42	331/5832 (5.7%)
38	8	1.43	34/3746 (0.9%)	2.16	250/5832 (4.3%)
39	L2	0.98	1/1948 (0.1%)	1.08	2/2617 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
39	l2	0.96	1/1946 (0.1%)	1.03	4/2614 (0.2%)
40	L3	1.12	3/3146 (0.1%)	1.12	11/4228 (0.3%)
40	l3	1.32	9/3146 (0.3%)	1.24	17/4228 (0.4%)
41	L4	1.03	0/2800	1.15	13/3790 (0.3%)
41	l4	1.02	1/2800 (0.0%)	1.11	5/3790 (0.1%)
42	L5	0.84	1/2425 (0.0%)	0.97	2/3271 (0.1%)
42	l5	1.16	2/2408 (0.1%)	1.08	3/3248 (0.1%)
43	L6	1.15	2/1260 (0.2%)	1.17	4/1694 (0.2%)
43	l6	1.18	2/1269 (0.2%)	1.15	3/1705 (0.2%)
44	L7	1.09	0/1821	1.13	9/2451 (0.4%)
44	l7	1.26	3/1828 (0.2%)	1.17	7/2461 (0.3%)
45	L8	0.74	0/1836	0.91	0/2481
45	l8	0.72	0/1795	0.86	1/2429 (0.0%)
46	L9	0.97	0/1539	1.07	1/2073 (0.0%)
46	l9	1.33	4/1539 (0.3%)	1.23	8/2073 (0.4%)
47	M0	1.02	4/1741 (0.2%)	1.04	1/2335 (0.0%)
47	m0	1.23	5/1758 (0.3%)	1.20	7/2358 (0.3%)
48	M1	0.80	1/1374 (0.1%)	0.93	3/1842 (0.2%)
48	m1	1.09	3/1374 (0.2%)	1.09	5/1842 (0.3%)
49	M3	0.96	2/1568 (0.1%)	1.09	4/2106 (0.2%)
49	m3	0.87	0/1573	1.02	0/2113
50	M4	1.10	0/1068	1.13	1/1438 (0.1%)
50	m4	1.30	1/1074 (0.1%)	1.15	3/1446 (0.2%)
51	M5	0.97	0/1757	1.04	5/2354 (0.2%)
51	m5	0.84	0/1757	0.93	2/2354 (0.1%)
52	M6	1.25	6/1585 (0.4%)	1.28	12/2128 (0.6%)
52	m6	1.54	9/1585 (0.6%)	1.38	14/2128 (0.7%)
53	M7	1.21	3/1443 (0.2%)	1.09	3/1944 (0.2%)
53	m7	1.18	1/1250 (0.1%)	1.19	2/1683 (0.1%)
54	M8	1.03	0/1465	1.12	5/1965 (0.3%)
54	m8	0.98	1/1465 (0.1%)	1.06	3/1965 (0.2%)
55	M9	0.84	0/1538	0.92	3/2050 (0.1%)
55	m9	0.88	1/1538 (0.1%)	0.92	2/2050 (0.1%)
56	N0	1.05	0/1481	1.10	5/1990 (0.3%)
56	n0	1.46	7/1481 (0.5%)	1.21	5/1990 (0.3%)
57	N1	1.09	1/1300 (0.1%)	1.10	4/1743 (0.2%)
57	n1	1.28	6/1300 (0.5%)	1.17	5/1743 (0.3%)
58	N2	0.73	1/812 (0.1%)	0.89	1/1099 (0.1%)
58	n2	0.73	0/794	0.84	1/1076 (0.1%)
59	N3	1.09	2/1018 (0.2%)	1.07	3/1369 (0.2%)
59	n3	1.35	7/1018 (0.7%)	1.28	7/1369 (0.5%)
60	N4	0.90	0/712	0.98	1/958 (0.1%)
60	n4	1.04	0/1052	1.04	0/1398

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
61	N5	0.86	1/979 (0.1%)	1.00	4/1321 (0.3%)
61	n5	0.85	0/974	1.03	2/1314 (0.2%)
62	N6	0.92	0/1004	1.11	6/1341 (0.4%)
62	n6	0.89	0/1004	1.02	5/1341 (0.4%)
63	N7	0.68	0/1118	0.89	1/1497 (0.1%)
63	n7	0.67	0/1118	0.83	0/1497
64	N8	1.05	0/1204	1.10	5/1612 (0.3%)
64	n8	0.98	1/1204 (0.1%)	1.08	2/1612 (0.1%)
65	N9	0.98	0/473	1.07	1/629 (0.2%)
65	n9	1.12	1/473 (0.2%)	1.33	3/629 (0.5%)
66	O0	0.71	0/751	0.87	0/1008
66	o0	0.69	0/775	0.88	2/1040 (0.2%)
67	O1	0.90	0/890	1.00	1/1196 (0.1%)
67	o1	1.13	2/897 (0.2%)	1.20	3/1205 (0.2%)
68	O2	1.21	2/1041 (0.2%)	1.20	4/1394 (0.3%)
68	o2	1.15	2/1041 (0.2%)	1.13	5/1394 (0.4%)
69	O3	1.32	2/868 (0.2%)	1.23	3/1168 (0.3%)
69	o3	1.38	3/868 (0.3%)	1.19	2/1168 (0.2%)
70	O4	0.84	0/890	1.00	4/1189 (0.3%)
70	o4	0.83	1/890 (0.1%)	0.99	2/1189 (0.2%)
71	O5	0.98	2/978 (0.2%)	1.09	2/1301 (0.2%)
71	o5	0.82	0/974	0.89	1/1297 (0.1%)
72	O6	0.84	0/778	0.98	1/1034 (0.1%)
72	o6	0.79	0/777	0.98	1/1033 (0.1%)
73	O7	1.08	0/696	1.20	4/923 (0.4%)
73	o7	0.99	0/696	1.07	3/923 (0.3%)
74	O8	0.72	0/618	0.84	0/826
74	o8	0.66	0/614	0.90	0/822
75	O9	1.05	0/443	1.19	3/588 (0.5%)
75	o9	0.82	0/443	0.99	0/588
76	Q0	1.04	2/423 (0.5%)	1.14	1/562 (0.2%)
76	q0	1.58	3/423 (0.7%)	1.44	5/562 (0.9%)
77	Q1	0.76	0/234	1.11	2/300 (0.7%)
77	q1	1.03	0/234	1.30	3/300 (1.0%)
78	Q2	1.12	1/860 (0.1%)	1.07	2/1136 (0.2%)
78	q2	1.13	2/860 (0.2%)	1.09	2/1136 (0.2%)
79	Q3	1.04	0/701	1.10	3/934 (0.3%)
79	q3	1.07	1/701 (0.1%)	1.05	0/934
80	e0	0.81	0/499	0.95	0/665
81	e1	0.51	0/619	0.87	0/822
83	p0	0.75	0/1091	0.85	0/1472
All	All	1.39	4070/429970 (0.9%)	1.97	22469/631198 (3.6%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	S0	0	2
2	s0	0	2
3	s1	0	3
5	S3	0	2
5	s3	0	2
6	s4	0	2
7	s5	0	3
9	s7	0	1
11	S9	0	2
11	s9	0	1
12	C0	0	2
15	c3	0	1
16	C4	0	1
17	c5	0	1
18	C6	0	1
18	c6	0	3
19	C7	0	1
19	c7	0	2
20	c8	0	1
21	c9	0	1
22	d0	0	1
23	D1	0	1
24	D2	0	1
24	d2	0	2
25	D3	0	2
26	D4	0	1
26	d4	0	2
27	D5	0	1
27	d5	0	1
28	D6	0	1
28	d6	0	1
33	E1	0	2
35	SM	0	1
39	l2	0	2
40	L3	0	3
40	l3	0	5
41	L4	0	5
41	l4	0	2
42	L5	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
42	l5	0	3
43	L6	0	2
43	l6	0	1
44	L7	0	2
44	l7	0	3
45	l8	0	1
47	M0	0	2
47	m0	0	1
48	m1	0	1
49	m3	0	2
52	M6	0	2
52	m6	0	2
53	M7	0	1
53	m7	0	2
54	m8	0	1
56	n0	0	2
57	N1	0	1
57	n1	0	1
60	n4	0	1
61	n5	0	1
63	N7	0	2
64	N8	0	4
64	n8	0	2
65	N9	0	2
65	n9	0	1
67	o1	0	1
68	o2	0	2
69	O3	0	2
70	O4	0	2
70	o4	0	2
72	O6	0	1
76	q0	0	1
80	e0	0	2
81	e1	0	1
82	m2	0	3
83	p0	0	1
All	All	0	130

All (4070) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
78	Q2	17	CYS	CB-SG	15.17	2.08	1.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	806	A	N9-C4	-14.79	1.28	1.37
37	7	89	G	C6-O6	14.62	1.37	1.24
36	5	2397	A	N9-C4	-14.38	1.29	1.37
36	5	2875	U	N1-C2	13.97	1.51	1.38
36	5	1303	A	C5-C6	-13.90	1.28	1.41
36	5	2689	A	N3-C4	-13.75	1.26	1.34
1	6	1753	A	N9-C4	13.53	1.46	1.37
36	5	2358	A	N9-C4	-13.26	1.29	1.37
36	1	408	A	N3-C4	-12.89	1.27	1.34
36	1	1432	C	N1-C6	-12.89	1.29	1.37
36	1	2875	U	C2-N3	12.87	1.46	1.37
36	5	1152	G	N9-C4	-12.77	1.27	1.38
36	1	2726	C	N3-C4	-12.50	1.25	1.33
36	1	3011	A	N9-C4	-12.47	1.30	1.37
36	1	2373	A	N9-C4	-12.37	1.30	1.37
36	5	367	A	N9-C4	-12.32	1.30	1.37
36	5	1589	A	C5-C6	-12.05	1.30	1.41
36	1	2834	G	N3-C4	-11.96	1.27	1.35
36	5	1159	A	N9-C4	-11.92	1.30	1.37
36	5	1195	A	N3-C4	-11.89	1.27	1.34
36	5	958	C	N1-C6	-11.88	1.30	1.37
36	1	1103	A	N7-C5	11.71	1.46	1.39
36	1	2636	A	N9-C4	-11.68	1.30	1.37
76	q0	99	CYS	CB-SG	-11.64	1.62	1.82
36	5	917	A	N9-C4	-11.55	1.30	1.37
36	1	2409	G	N9-C8	-11.52	1.29	1.37
37	7	104	A	N9-C4	-11.52	1.30	1.37
36	1	645	A	C6-N6	-11.48	1.24	1.33
37	7	84	A	N3-C4	-11.45	1.27	1.34
36	1	2875	U	N1-C2	11.42	1.48	1.38
36	1	2820	A	N9-C4	-11.37	1.31	1.37
36	1	3142	A	N9-C4	-11.35	1.31	1.37
36	5	3005	A	N7-C5	-11.35	1.32	1.39
36	5	2875	U	C2-N3	11.35	1.45	1.37
36	5	2988	C	N1-C6	-11.35	1.30	1.37
36	5	1183	C	N1-C6	-11.29	1.30	1.37
36	5	994	G	C5-C4	-11.23	1.30	1.38
36	1	2860	U	C4-O4	11.21	1.32	1.23
36	5	2291	A	N9-C4	-11.17	1.31	1.37
36	5	2892	A	N3-C4	-11.10	1.28	1.34
36	1	2877	G	N3-C4	-11.07	1.27	1.35
36	1	1316	C	N1-C6	-11.05	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2636	A	N3-C4	-11.02	1.28	1.34
36	5	1197	A	N3-C4	-10.91	1.28	1.34
36	1	1330	A	N9-C4	-10.90	1.31	1.37
36	5	2799	A	N3-C4	-10.88	1.28	1.34
36	5	523	A	N3-C4	-10.87	1.28	1.34
36	1	2619	G	C5-C4	-10.85	1.30	1.38
36	5	523	A	N9-C4	-10.85	1.31	1.37
36	5	1159	A	N3-C4	-10.84	1.28	1.34
36	5	960	U	N1-C2	10.82	1.48	1.38
36	1	3006	A	N9-C4	-10.81	1.31	1.37
36	5	2936	A	C5-C4	-10.80	1.31	1.38
36	5	1303	A	C5-C4	-10.79	1.31	1.38
36	5	2743	A	N9-C4	-10.74	1.31	1.37
36	1	936	A	N9-C4	-10.68	1.31	1.37
36	1	962	A	N3-C4	-10.66	1.28	1.34
36	1	962	A	N9-C4	-10.66	1.31	1.37
36	5	2875	U	C4-C5	10.62	1.53	1.43
36	1	1135	A	N3-C4	-10.62	1.28	1.34
37	7	102	A	N9-C4	-10.60	1.31	1.37
36	5	40	A	N9-C4	-10.56	1.31	1.37
36	1	744	A	N9-C4	-10.56	1.31	1.37
1	6	1131	A	C5-C6	-10.55	1.31	1.41
36	1	2409	G	C8-N7	-10.53	1.24	1.30
36	5	1195	A	N9-C4	-10.52	1.31	1.37
1	6	1537	C	N1-C6	10.52	1.43	1.37
36	5	2386	A	N9-C4	-10.49	1.31	1.37
36	1	2404	A	N3-C4	10.48	1.41	1.34
1	6	992	A	N9-C4	-10.48	1.31	1.37
36	5	1178	G	C6-N1	-10.45	1.32	1.39
36	5	2397	A	N3-C4	-10.44	1.28	1.34
36	1	2877	G	C5-C4	-10.43	1.31	1.38
36	5	2879	C	N1-C6	-10.41	1.30	1.37
36	5	2892	A	N9-C4	-10.36	1.31	1.37
36	5	1883	A	N3-C4	-10.34	1.28	1.34
36	1	2409	G	N7-C5	-10.32	1.33	1.39
36	1	1103	A	C5-C6	10.30	1.50	1.41
36	1	2404	A	C5-C4	10.26	1.46	1.38
36	5	2703	A	N3-C4	-10.25	1.28	1.34
36	1	1411	C	N3-C4	-10.22	1.26	1.33
36	5	2813	A	N7-C5	-10.22	1.33	1.39
36	1	3011	A	N3-C4	-10.17	1.28	1.34
56	n0	128	GLU	CG-CD	10.15	1.67	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2379	U	C2-N3	-10.15	1.30	1.37
36	1	423	A	N3-C4	-10.14	1.28	1.34
36	5	3310	A	N7-C5	-10.14	1.33	1.39
36	1	367	A	N9-C4	-10.13	1.31	1.37
1	6	1778	G	C5-C4	-10.12	1.31	1.38
36	1	70	A	N9-C4	-10.11	1.31	1.37
36	5	3012	A	C5-C4	-10.11	1.31	1.38
36	5	2836	C	N1-C6	-10.11	1.31	1.37
36	5	2994	A	N3-C4	-10.04	1.28	1.34
36	5	2139	A	N3-C4	-10.02	1.28	1.34
36	5	1320	C	N1-C6	-10.01	1.31	1.37
36	1	1180	A	N9-C4	-10.00	1.31	1.37
36	5	94	G	N9-C4	-9.99	1.29	1.38
36	1	962	A	N7-C5	-9.97	1.33	1.39
1	6	1537	C	C2-N3	9.97	1.43	1.35
36	1	2605	G	N9-C4	-9.96	1.29	1.38
36	1	35	A	C5-C6	-9.95	1.32	1.41
36	5	2404	A	C5-C6	9.94	1.50	1.41
36	5	3245	A	C5-C6	-9.93	1.32	1.41
36	1	806	A	N9-C4	-9.92	1.31	1.37
36	5	654	C	N1-C6	-9.92	1.31	1.37
36	5	1174	G	C5-C4	-9.92	1.31	1.38
36	5	1332	A	N9-C4	-9.89	1.31	1.37
36	1	2860	U	N3-C4	9.88	1.47	1.38
36	1	3305	A	N7-C5	-9.86	1.33	1.39
36	5	3012	A	N9-C4	-9.84	1.31	1.37
36	5	2689	A	N9-C4	-9.83	1.31	1.37
1	6	1556	A	N9-C4	-9.82	1.31	1.37
36	5	1330	A	N9-C4	-9.81	1.31	1.37
36	1	1154	A	N3-C4	-9.79	1.28	1.34
36	5	1399	A	N9-C4	-9.79	1.31	1.37
56	n0	78	TRP	CB-CG	-9.78	1.32	1.50
36	5	1370	G	C6-N1	-9.77	1.32	1.39
36	5	2353	G	C5-C6	-9.75	1.32	1.42
36	5	3091	A	N7-C5	-9.71	1.33	1.39
36	1	1393	A	N3-C4	-9.67	1.29	1.34
36	5	1040	A	N9-C4	-9.67	1.32	1.37
36	1	2605	G	N3-C4	-9.66	1.28	1.35
36	5	1047	A	N3-C4	-9.64	1.29	1.34
36	5	2644	C	N1-C6	-9.63	1.31	1.37
36	5	3029	A	N9-C4	-9.59	1.32	1.37
36	5	2920	U	C2-N3	-9.58	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	667	C	N3-C4	-9.58	1.27	1.33
36	1	1369	A	N9-C4	-9.56	1.32	1.37
36	5	994	G	C5-C6	-9.55	1.32	1.42
1	6	1028	C	N1-C6	-9.54	1.31	1.37
36	5	3043	C	N1-C6	-9.54	1.31	1.37
36	5	2986	U	N1-C2	-9.53	1.29	1.38
36	1	913	A	N7-C5	-9.53	1.33	1.39
36	1	2377	G	C6-N1	-9.51	1.32	1.39
36	5	1292	C	N1-C2	-9.51	1.30	1.40
36	1	402	A	N7-C5	-9.50	1.33	1.39
36	1	2333	C	N3-C4	-9.50	1.27	1.33
36	5	1103	A	C5-C4	9.49	1.45	1.38
36	1	2964	G	N7-C5	-9.44	1.33	1.39
37	7	44	C	C2-O2	9.44	1.32	1.24
36	5	2626	A	N3-C4	-9.43	1.29	1.34
36	1	2326	A	N9-C4	-9.42	1.32	1.37
36	1	2644	C	N1-C6	-9.40	1.31	1.37
1	6	1003	A	N9-C4	-9.40	1.32	1.37
36	5	806	A	N3-C4	-9.39	1.29	1.34
36	5	1332	A	N7-C5	-9.38	1.33	1.39
36	5	3213	A	N9-C4	-9.38	1.32	1.37
36	1	2871	G	N9-C8	9.37	1.44	1.37
36	1	1432	C	N3-C4	-9.37	1.27	1.33
36	1	2878	G	N9-C8	-9.36	1.31	1.37
36	5	1103	A	N3-C4	9.36	1.40	1.34
36	1	1320	C	N3-C4	-9.35	1.27	1.33
57	n1	104	GLU	CB-CG	9.30	1.69	1.52
36	5	848	A	N7-C5	-9.28	1.33	1.39
36	1	421	G	N1-C2	-9.27	1.30	1.37
36	5	884	A	C5-C6	-9.26	1.32	1.41
36	5	345	G	N9-C8	-9.26	1.31	1.37
36	5	1205	A	N3-C4	-9.26	1.29	1.34
36	5	428	A	N9-C4	-9.26	1.32	1.37
36	5	2918	G	C6-N1	-9.26	1.33	1.39
36	1	1103	A	N9-C4	9.25	1.43	1.37
36	1	3272	C	N1-C6	-9.25	1.31	1.37
36	5	3195	U	C2-N3	9.23	1.44	1.37
36	5	2626	A	N9-C4	-9.20	1.32	1.37
36	5	2970	C	N1-C6	-9.20	1.31	1.37
36	1	422	A	N3-C4	-9.19	1.29	1.34
36	1	2644	C	N3-C4	-9.19	1.27	1.33
1	6	100	A	N3-C4	-9.18	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	345	G	N7-C5	-9.17	1.33	1.39
36	5	1136	A	N3-C4	-9.16	1.29	1.34
36	5	2145	A	N7-C5	-9.15	1.33	1.39
36	5	2401	A	C5-C4	9.13	1.45	1.38
36	1	2877	G	C2-N3	-9.11	1.25	1.32
1	6	1778	G	C5-C6	-9.10	1.33	1.42
36	5	422	A	N3-C4	-9.09	1.29	1.34
36	1	1304	A	N9-C4	-9.09	1.32	1.37
36	1	2969	A	N9-C4	-9.08	1.32	1.37
36	5	1204	A	N9-C4	-9.07	1.32	1.37
36	1	644	G	C6-N1	-9.06	1.33	1.39
36	1	2159	U	N1-C2	9.06	1.46	1.38
36	5	512	U	C2-N3	-9.06	1.31	1.37
36	5	2149	A	N9-C4	-9.05	1.32	1.37
36	1	3181	C	N3-C4	-9.04	1.27	1.33
36	5	2908	G	N7-C5	-9.04	1.33	1.39
36	5	2309	A	N3-C4	-9.03	1.29	1.34
36	1	2948	C	N3-C4	-9.02	1.27	1.33
36	5	2879	C	C4-C5	-9.02	1.35	1.43
36	5	1589	A	N7-C5	-9.01	1.33	1.39
36	5	1592	G	C6-O6	8.99	1.32	1.24
36	5	3024	A	N9-C4	-8.99	1.32	1.37
36	5	1406	A	N3-C4	-8.98	1.29	1.34
36	1	1154	A	N7-C5	-8.95	1.33	1.39
37	7	73	C	N1-C6	8.95	1.42	1.37
36	5	2857	C	N3-C4	-8.95	1.27	1.33
36	1	357	A	N3-C4	-8.95	1.29	1.34
36	1	2641	U	C2-N3	-8.95	1.31	1.37
36	5	1152	G	N3-C4	-8.94	1.29	1.35
36	5	2401	A	N9-C4	8.91	1.43	1.37
36	5	2821	C	N1-C2	8.90	1.49	1.40
36	1	638	C	N1-C6	-8.89	1.31	1.37
36	1	70	A	N3-C4	-8.89	1.29	1.34
36	1	2878	G	C5-C4	-8.88	1.32	1.38
36	5	2936	A	N3-C4	-8.88	1.29	1.34
36	5	2304	C	C4-C5	-8.87	1.35	1.43
36	1	3142	A	N3-C4	-8.87	1.29	1.34
37	3	10	C	N1-C6	-8.86	1.31	1.37
36	5	2703	A	N7-C5	-8.86	1.33	1.39
36	5	2404	A	C5-C4	8.86	1.45	1.38
36	1	693	A	N3-C4	-8.84	1.29	1.34
36	5	367	A	N7-C5	-8.84	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2938	G	N7-C5	-8.83	1.33	1.39
36	5	1103	A	N9-C4	8.82	1.43	1.37
36	5	3038	U	C4-O4	-8.82	1.16	1.23
36	5	2386	A	N3-C4	-8.81	1.29	1.34
78	q2	17	CYS	CB-SG	8.81	1.97	1.82
36	5	884	A	N7-C5	-8.81	1.33	1.39
36	5	3310	A	C5-C4	-8.80	1.32	1.38
36	1	780	A	N3-C4	-8.80	1.29	1.34
36	5	2279	A	C5-C6	-8.79	1.33	1.41
36	1	2811	A	N3-C4	-8.77	1.29	1.34
1	6	1148	C	N3-C4	-8.77	1.27	1.33
36	5	2940	A	N7-C5	-8.77	1.33	1.39
36	5	2381	G	N9-C8	-8.74	1.31	1.37
36	5	3012	A	N7-C5	-8.73	1.34	1.39
36	5	2637	A	N3-C4	-8.72	1.29	1.34
36	1	1204	A	N9-C4	-8.72	1.32	1.37
36	1	1867	A	N9-C4	-8.71	1.32	1.37
36	5	2980	U	N3-C4	-8.71	1.30	1.38
36	5	39	A	N9-C4	-8.71	1.32	1.37
36	5	3213	A	C5-C4	-8.71	1.32	1.38
37	7	95	A	N3-C4	-8.70	1.29	1.34
36	5	2378	C	N1-C6	-8.70	1.31	1.37
36	5	2902	A	N3-C4	-8.70	1.29	1.34
36	5	2404	A	N9-C4	8.68	1.43	1.37
36	5	2875	U	C5-C6	8.67	1.42	1.34
36	5	2830	G	N3-C4	-8.67	1.29	1.35
36	1	1901	A	N9-C4	-8.67	1.32	1.37
36	5	2353	G	N7-C5	-8.66	1.34	1.39
36	5	2377	G	C5-C4	-8.66	1.32	1.38
36	5	3310	A	N3-C4	-8.66	1.29	1.34
36	1	2601	A	N3-C4	-8.65	1.29	1.34
36	5	2933	A	C6-N1	-8.65	1.29	1.35
36	5	2996	U	N3-C4	8.64	1.46	1.38
36	1	806	A	N3-C4	-8.64	1.29	1.34
36	5	2637	A	N9-C4	-8.62	1.32	1.37
36	1	2819	A	C5-C4	-8.62	1.32	1.38
36	1	3142	A	C6-N1	-8.62	1.29	1.35
36	1	635	G	C5-C6	-8.61	1.33	1.42
36	1	1145	G	N7-C5	-8.61	1.34	1.39
36	5	1307	G	N7-C5	-8.61	1.34	1.39
36	5	2412	G	N7-C5	-8.61	1.34	1.39
1	6	1025	A	N7-C5	-8.60	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	1047	A	C6-N1	-8.60	1.29	1.35
36	5	1197	A	N7-C5	-8.59	1.34	1.39
36	1	2277	C	N1-C6	-8.59	1.31	1.37
36	1	2627	C	N1-C6	-8.59	1.31	1.37
36	5	951	A	C6-N1	-8.59	1.29	1.35
36	1	1333	C	N3-C4	-8.58	1.27	1.33
36	5	2125	A	N9-C4	-8.58	1.32	1.37
36	5	3035	A	N9-C4	-8.58	1.32	1.37
36	1	2365	C	N1-C6	-8.58	1.32	1.37
36	1	1398	U	C2-N3	-8.58	1.31	1.37
36	5	2726	C	N3-C4	-8.57	1.27	1.33
36	1	2971	A	N9-C4	8.56	1.43	1.37
36	5	3242	G	N1-C2	-8.56	1.30	1.37
36	1	2325	G	N7-C5	-8.56	1.34	1.39
36	5	345	G	C8-N7	-8.56	1.25	1.30
36	1	2187	G	N3-C4	-8.56	1.29	1.35
36	1	1182	A	N9-C4	-8.56	1.32	1.37
36	5	1178	G	N3-C4	-8.55	1.29	1.35
36	5	1205	A	C6-N1	-8.55	1.29	1.35
36	1	1178	G	C6-N1	-8.55	1.33	1.39
36	1	2880	U	N3-C4	-8.54	1.30	1.38
36	5	2816	G	N9-C4	-8.54	1.31	1.38
36	5	2934	A	C5-C6	-8.54	1.33	1.41
36	1	1884	A	N9-C4	-8.53	1.32	1.37
36	5	1203	A	C5-C6	-8.53	1.33	1.41
36	1	639	G	N9-C4	-8.53	1.31	1.38
36	1	2878	G	N7-C5	-8.53	1.34	1.39
1	6	1660	A	N3-C4	-8.51	1.29	1.34
36	5	2379	U	N3-C4	-8.51	1.30	1.38
36	5	1847	A	N9-C4	-8.51	1.32	1.37
1	2	1208	A	N9-C4	-8.50	1.32	1.37
36	5	2986	U	N1-C6	-8.50	1.30	1.38
36	5	2285	C	N1-C6	-8.50	1.32	1.37
36	1	1178	G	N1-C2	-8.50	1.30	1.37
36	5	2386	A	N7-C5	-8.49	1.34	1.39
36	1	804	C	N1-C6	-8.49	1.32	1.37
36	5	1120	A	N3-C4	-8.49	1.29	1.34
38	4	12	A	C5-C6	-8.48	1.33	1.41
36	5	3061	G	N9-C4	-8.48	1.31	1.38
36	5	1794	G	N9-C4	-8.46	1.31	1.38
36	5	806	A	N7-C5	-8.46	1.34	1.39
36	5	1175	C	N3-C4	-8.46	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2813	A	C5-C6	-8.45	1.33	1.41
36	1	2326	A	N3-C4	-8.45	1.29	1.34
38	4	24	G	N3-C4	-8.45	1.29	1.35
36	5	668	G	C5-C4	-8.44	1.32	1.38
36	1	2869	U	C4-C5	-8.44	1.35	1.43
36	1	1046	A	C5-C6	-8.43	1.33	1.41
36	1	1127	G	N3-C4	-8.42	1.29	1.35
36	5	367	A	N3-C4	-8.42	1.29	1.34
36	1	2356	A	N7-C5	-8.42	1.34	1.39
36	1	1156	C	N3-C4	-8.41	1.28	1.33
36	5	2933	A	N3-C4	-8.41	1.29	1.34
36	5	3209	A	C5-C4	8.41	1.44	1.38
36	5	3308	C	N1-C6	-8.41	1.32	1.37
36	1	348	A	N9-C4	-8.40	1.32	1.37
36	5	425	G	N3-C4	-8.40	1.29	1.35
36	1	421	G	C6-N1	-8.39	1.33	1.39
36	1	423	A	N9-C4	-8.39	1.32	1.37
36	1	2618	G	C6-N1	-8.39	1.33	1.39
36	5	1300	G	N9-C8	-8.39	1.31	1.37
36	1	2404	A	N9-C4	8.39	1.42	1.37
36	1	639	G	N3-C4	-8.39	1.29	1.35
36	5	2811	A	N3-C4	-8.38	1.29	1.34
1	6	1753	A	N3-C4	8.38	1.39	1.34
36	1	1366	A	C5-C6	-8.37	1.33	1.41
36	1	3098	G	C5-C4	-8.36	1.32	1.38
36	5	2976	A	C5-C4	-8.35	1.32	1.38
36	1	808	A	N9-C4	-8.35	1.32	1.37
36	5	2620	G	C6-N1	-8.34	1.33	1.39
36	1	645	A	C6-N1	-8.33	1.29	1.35
36	5	1149	G	C6-O6	8.33	1.31	1.24
36	5	3005	A	N3-C4	-8.33	1.29	1.34
36	5	3005	A	C5-C4	-8.33	1.32	1.38
36	5	921	A	N3-C4	-8.33	1.29	1.34
36	5	2979	U	C2-N3	-8.33	1.31	1.37
36	5	2375	G	N3-C4	-8.32	1.29	1.35
36	5	1165	A	N7-C5	-8.31	1.34	1.39
36	1	612	U	C2-N3	-8.30	1.31	1.37
36	5	1546	A	N3-C4	-8.30	1.29	1.34
36	5	422	A	C6-N1	-8.29	1.29	1.35
36	5	2285	C	N3-C4	-8.29	1.28	1.33
1	6	100	A	C6-N1	-8.28	1.29	1.35
25	d3	63	GLN	CB-CG	8.28	1.75	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2743	A	N3-C4	-8.28	1.29	1.34
36	5	3195	U	N3-C4	8.28	1.45	1.38
36	5	345	G	N7-C5	-8.27	1.34	1.39
36	1	27	C	N3-C4	-8.27	1.28	1.33
37	7	95	A	N9-C4	-8.27	1.32	1.37
36	1	1001	G	C6-N1	8.26	1.45	1.39
36	5	642	U	C2-N3	-8.26	1.31	1.37
36	1	1431	G	C5-C4	-8.25	1.32	1.38
36	1	1197	A	C6-N1	-8.24	1.29	1.35
36	1	189	G	N3-C4	-8.24	1.29	1.35
36	1	408	A	N9-C4	-8.23	1.32	1.37
36	5	1886	A	N3-C4	-8.23	1.29	1.34
36	1	1134	G	N9-C8	-8.22	1.32	1.37
36	5	3382	U	N1-C2	8.21	1.46	1.38
36	5	1867	A	N9-C4	-8.21	1.32	1.37
36	1	2811	A	N7-C5	-8.20	1.34	1.39
36	1	2619	G	N9-C8	-8.19	1.32	1.37
1	6	1746	A	N9-C4	-8.19	1.32	1.37
36	1	1156	C	N1-C6	-8.19	1.32	1.37
36	5	2879	C	N1-C2	-8.18	1.31	1.40
49	M3	176	GLU	CG-CD	8.18	1.64	1.51
36	1	2819	A	N3-C4	-8.17	1.29	1.34
36	5	1295	G	C5-C6	-8.17	1.34	1.42
36	1	2415	C	N3-C4	-8.16	1.28	1.33
36	5	2302	G	N3-C4	-8.16	1.29	1.35
36	1	2619	G	N7-C5	-8.15	1.34	1.39
36	5	1292	C	N1-C6	-8.15	1.32	1.37
36	5	994	G	C8-N7	-8.15	1.26	1.30
36	5	2302	G	C6-N1	-8.15	1.33	1.39
36	5	1053	A	N3-C4	-8.14	1.29	1.34
36	1	2306	C	N1-C2	8.13	1.48	1.40
36	5	2819	A	N3-C4	-8.13	1.29	1.34
36	1	1369	A	N3-C4	-8.12	1.29	1.34
36	5	1891	A	N9-C4	-8.12	1.32	1.37
1	6	757	A	N9-C4	-8.12	1.32	1.37
36	5	2117	A	N9-C4	-8.11	1.32	1.37
36	5	2935	U	N1-C2	-8.10	1.31	1.38
36	1	1116	G	C6-N1	-8.10	1.33	1.39
36	1	1197	A	N3-C4	-8.09	1.29	1.34
36	1	2802	A	N9-C4	-8.09	1.32	1.37
36	5	1005	G	N9-C4	-8.09	1.31	1.38
36	5	2302	G	N1-C2	-8.08	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2414	G	N3-C4	-8.08	1.29	1.35
36	1	2623	G	C5-C6	-8.08	1.34	1.42
36	5	2392	C	N1-C6	-8.08	1.32	1.37
36	5	1513	G	N7-C5	-8.07	1.34	1.39
36	1	2372	A	N9-C4	8.06	1.42	1.37
36	5	402	A	N7-C5	-8.05	1.34	1.39
36	1	2979	U	C2-N3	-8.04	1.32	1.37
36	5	921	A	C6-N1	-8.04	1.29	1.35
36	1	1883	A	N9-C4	-8.04	1.33	1.37
36	5	3310	A	N9-C4	-8.04	1.33	1.37
36	5	1432	C	N1-C6	-8.03	1.32	1.37
36	5	2387	A	N3-C4	-8.03	1.30	1.34
36	1	2377	G	N7-C5	-8.02	1.34	1.39
36	1	2860	U	C4-C5	8.02	1.50	1.43
36	1	1197	A	C5-C6	-8.02	1.33	1.41
36	1	2981	U	C2-N3	-8.01	1.32	1.37
36	5	2934	A	N7-C5	-8.01	1.34	1.39
36	1	2640	A	N3-C4	-8.00	1.30	1.34
36	5	920	A	N3-C4	-8.00	1.30	1.34
36	1	905	U	N1-C2	-8.00	1.31	1.38
36	5	1845	G	N9-C8	-8.00	1.32	1.37
1	6	1655	A	N7-C5	-7.98	1.34	1.39
36	5	3012	A	C5-C6	-7.98	1.33	1.41
36	1	1399	A	N3-C4	-7.98	1.30	1.34
36	1	2956	A	N3-C4	-7.98	1.30	1.34
36	5	2637	A	C6-N1	-7.97	1.29	1.35
37	3	88	G	C6-N1	-7.97	1.33	1.39
36	1	796	U	C4-C5	-7.97	1.36	1.43
36	5	437	G	N9-C4	7.96	1.44	1.38
36	5	2847	A	N9-C4	-7.96	1.33	1.37
36	1	1127	G	N9-C4	-7.96	1.31	1.38
36	1	1145	G	N9-C8	-7.96	1.32	1.37
36	5	1794	G	C5-C4	-7.96	1.32	1.38
36	5	1129	A	C5-C6	-7.95	1.33	1.41
36	1	2356	A	N9-C4	-7.95	1.33	1.37
36	1	1146	C	C4-C5	-7.95	1.36	1.43
36	5	367	A	N9-C8	-7.94	1.31	1.37
1	6	321	C	N1-C2	7.93	1.48	1.40
36	5	2150	G	N7-C5	-7.92	1.34	1.39
36	1	2404	A	C5-C6	7.92	1.48	1.41
36	1	366	A	N7-C5	-7.91	1.34	1.39
36	1	651	G	C8-N7	-7.91	1.26	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	1116	G	N7-C5	-7.91	1.34	1.39
36	5	2917	G	N3-C4	-7.91	1.29	1.35
36	5	1337	A	N9-C4	-7.91	1.33	1.37
1	6	1670	G	N7-C5	-7.90	1.34	1.39
36	5	1332	A	N9-C8	-7.90	1.31	1.37
36	5	2130	G	N9-C4	-7.90	1.31	1.38
36	5	3112	G	N9-C8	-7.89	1.32	1.37
1	6	1119	G	N7-C5	-7.89	1.34	1.39
36	5	585	A	N7-C5	-7.89	1.34	1.39
36	5	1887	A	N7-C5	-7.88	1.34	1.39
36	1	691	A	N9-C4	-7.88	1.33	1.37
37	7	81	U	C2-N3	-7.88	1.32	1.37
37	7	84	A	C6-N1	-7.88	1.30	1.35
36	1	3006	A	N3-C4	-7.88	1.30	1.34
36	5	1139	G	N9-C4	-7.88	1.31	1.38
36	5	1203	A	N7-C5	-7.87	1.34	1.39
1	6	1778	G	N7-C5	-7.87	1.34	1.39
38	4	15	G	N7-C5	-7.86	1.34	1.39
36	5	3207	U	C4-C5	7.86	1.50	1.43
36	1	2819	A	N9-C4	-7.85	1.33	1.37
36	5	1205	A	N9-C4	-7.85	1.33	1.37
36	5	3209	A	C5-C6	7.85	1.48	1.41
36	5	1520	G	N9-C4	7.85	1.44	1.38
36	5	3310	A	C5-C6	-7.85	1.33	1.41
36	1	3273	A	N3-C4	-7.84	1.30	1.34
36	1	423	A	N7-C5	-7.84	1.34	1.39
36	5	3006	A	N3-C4	-7.83	1.30	1.34
36	5	3093	C	N1-C6	-7.83	1.32	1.37
36	1	1886	A	N3-C4	-7.83	1.30	1.34
36	1	3081	C	N3-C4	-7.83	1.28	1.33
36	5	3124	G	N3-C4	-7.83	1.29	1.35
36	5	363	G	N7-C5	-7.83	1.34	1.39
36	5	2172	A	N7-C5	-7.83	1.34	1.39
36	1	2980	U	C2-O2	-7.82	1.15	1.22
36	5	367	A	C5-C4	-7.82	1.33	1.38
36	5	2884	C	N1-C2	-7.82	1.32	1.40
36	1	3150	A	C5-C6	-7.82	1.34	1.41
36	1	414	U	C2-N3	-7.81	1.32	1.37
36	1	425	G	C6-N1	-7.81	1.34	1.39
36	1	916	G	C5-C4	-7.81	1.32	1.38
36	1	880	G	N9-C4	-7.80	1.31	1.38
36	1	2809	C	N1-C2	-7.80	1.32	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	3182	G	C6-N1	-7.80	1.34	1.39
1	6	1671	A	N3-C4	-7.80	1.30	1.34
36	1	1145	G	C5-C4	-7.80	1.32	1.38
36	1	2834	G	C5-C4	-7.80	1.32	1.38
36	5	396	A	N9-C4	-7.80	1.33	1.37
36	5	2138	A	N3-C4	-7.80	1.30	1.34
36	5	1174	G	C6-N1	-7.80	1.34	1.39
36	1	1153	A	N3-C4	-7.79	1.30	1.34
36	5	2665	U	C4-C5	-7.79	1.36	1.43
36	5	1486	G	N9-C4	-7.79	1.31	1.38
36	1	644	G	N3-C4	-7.79	1.29	1.35
36	5	1217	A	N9-C4	-7.79	1.33	1.37
36	5	3130	A	N3-C4	-7.78	1.30	1.34
36	5	3091	A	C5-C6	-7.77	1.34	1.41
36	1	1197	A	N9-C4	-7.76	1.33	1.37
36	5	2404	A	N3-C4	7.76	1.39	1.34
1	6	1137	A	N9-C4	-7.76	1.33	1.37
36	5	2940	A	N3-C4	-7.76	1.30	1.34
36	5	1174	G	N1-C2	-7.75	1.31	1.37
36	5	2400	G	C2-N3	-7.75	1.26	1.32
37	7	25	G	C6-N1	-7.75	1.34	1.39
36	1	1401	A	N9-C4	-7.74	1.33	1.37
36	5	647	A	N3-C4	-7.74	1.30	1.34
36	5	2415	C	N1-C6	-7.74	1.32	1.37
36	1	1180	A	N3-C4	-7.74	1.30	1.34
36	5	51	A	N7-C5	-7.74	1.34	1.39
36	5	3025	C	N3-C4	-7.73	1.28	1.33
36	1	3011	A	C5-C4	-7.73	1.33	1.38
36	5	1101	G	C6-N1	-7.73	1.34	1.39
40	L3	233	TRP	CB-CG	-7.73	1.36	1.50
36	5	1197	A	C5-C4	-7.73	1.33	1.38
36	5	1197	A	C6-N1	-7.73	1.30	1.35
38	8	80	A	N9-C4	7.73	1.42	1.37
36	5	1175	C	N1-C6	-7.72	1.32	1.37
36	1	1197	A	C5-C4	-7.72	1.33	1.38
36	1	3172	A	N7-C5	-7.72	1.34	1.39
36	5	3132	C	N1-C6	-7.72	1.32	1.37
36	5	918	C	N1-C6	-7.72	1.32	1.37
36	1	2875	U	N3-C4	7.72	1.45	1.38
36	1	357	A	N9-C4	-7.72	1.33	1.37
36	5	2386	A	C5-C6	-7.72	1.34	1.41
1	6	309	C	N1-C6	-7.71	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	971	G	C6-N1	-7.71	1.34	1.39
36	5	2373	A	C6-N1	-7.71	1.30	1.35
36	1	2614	G	N1-C2	-7.70	1.31	1.37
36	1	2875	U	N1-C6	7.70	1.44	1.38
36	5	2382	G	N9-C4	-7.70	1.31	1.38
36	5	2743	A	N7-C5	-7.70	1.34	1.39
36	1	2996	U	N1-C2	7.69	1.45	1.38
36	5	3085	G	C5-C4	-7.69	1.32	1.38
36	1	1149	G	C6-O6	7.69	1.31	1.24
36	1	3180	A	C6-N1	-7.68	1.30	1.35
1	6	65	A	N9-C4	-7.68	1.33	1.37
1	6	391	A	N3-C4	-7.68	1.30	1.34
36	5	2811	A	N9-C4	-7.68	1.33	1.37
36	5	2329	C	N1-C6	-7.68	1.32	1.37
36	1	402	A	C5-C6	-7.68	1.34	1.41
36	5	1910	A	C5-C6	-7.68	1.34	1.41
36	5	1307	G	N3-C4	-7.68	1.30	1.35
36	1	865	U	C2-N3	-7.67	1.32	1.37
36	1	2913	C	N1-C6	-7.67	1.32	1.37
36	1	2164	A	N3-C4	-7.67	1.30	1.34
36	1	2953	U	C4-O4	7.66	1.29	1.23
36	5	2875	U	N1-C6	7.66	1.44	1.38
36	1	2956	A	N7-C5	-7.66	1.34	1.39
36	5	189	G	N3-C4	-7.66	1.30	1.35
36	5	363	G	C5-C6	-7.66	1.34	1.42
38	8	53	A	N3-C4	-7.66	1.30	1.34
36	5	2364	G	N7-C5	-7.65	1.34	1.39
36	1	2613	U	C2-O2	-7.65	1.15	1.22
1	6	1778	G	N3-C4	-7.65	1.30	1.35
1	6	1729	C	N1-C6	-7.65	1.32	1.37
36	1	65	A	N9-C4	-7.64	1.33	1.37
36	1	583	G	C6-N1	-7.64	1.34	1.39
36	1	2356	A	N3-C4	-7.64	1.30	1.34
36	5	2946	A	N3-C4	-7.64	1.30	1.34
36	5	2341	A	N9-C4	-7.64	1.33	1.37
36	5	2370	G	N7-C5	-7.64	1.34	1.39
37	3	87	G	C2-N3	-7.63	1.26	1.32
36	5	95	A	N9-C4	-7.63	1.33	1.37
36	5	2868	U	C2-N3	-7.63	1.32	1.37
36	1	883	A	C6-N1	-7.62	1.30	1.35
36	5	994	G	N7-C5	-7.62	1.34	1.39
36	5	2287	C	N3-C4	-7.62	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	3061	G	C5-C6	-7.62	1.34	1.42
36	1	883	A	N3-C4	-7.62	1.30	1.34
37	7	79	A	N9-C4	-7.62	1.33	1.37
36	1	1905	G	N3-C4	-7.61	1.30	1.35
36	5	2849	C	N1-C6	-7.61	1.32	1.37
36	1	952	A	C6-N1	-7.61	1.30	1.35
36	1	1340	G	C5-C4	-7.61	1.33	1.38
36	1	2641	U	N3-C4	-7.61	1.31	1.38
37	3	89	G	C5-C4	-7.61	1.33	1.38
36	5	1370	G	N3-C4	-7.61	1.30	1.35
36	1	397	A	N3-C4	-7.61	1.30	1.34
36	5	588	G	C5-C4	-7.61	1.33	1.38
36	5	2120	A	N9-C4	-7.61	1.33	1.37
36	5	1298	C	C4-C5	-7.60	1.36	1.43
36	1	964	G	C5-C6	-7.60	1.34	1.42
36	1	1910	A	N9-C4	-7.60	1.33	1.37
1	6	1547	A	N9-C4	-7.60	1.33	1.37
36	5	958	C	N3-C4	-7.60	1.28	1.33
36	5	201	A	N9-C4	-7.59	1.33	1.37
37	7	95	A	N7-C5	-7.59	1.34	1.39
1	6	163	G	N3-C4	-7.59	1.30	1.35
36	5	3344	A	N9-C4	-7.59	1.33	1.37
36	1	2409	G	C5-C4	-7.58	1.33	1.38
36	5	883	A	N3-C4	-7.58	1.30	1.34
36	1	1340	G	C5-C6	-7.57	1.34	1.42
36	1	2864	A	N3-C4	-7.57	1.30	1.34
36	1	940	G	C5-C4	-7.57	1.33	1.38
36	1	1103	A	N3-C4	7.57	1.39	1.34
36	1	2385	G	C5-C6	-7.57	1.34	1.42
36	5	1205	A	C5-C4	-7.57	1.33	1.38
36	5	2867	C	N1-C6	-7.57	1.32	1.37
36	5	633	C	C4-C5	-7.56	1.36	1.43
36	5	1879	A	N3-C4	-7.56	1.30	1.34
36	5	2242	A	N3-C4	-7.56	1.30	1.34
36	1	942	U	C4-O4	7.56	1.29	1.23
36	5	637	C	N1-C6	-7.56	1.32	1.37
36	5	2856	G	N3-C4	-7.55	1.30	1.35
36	1	1405	U	C2-N3	-7.55	1.32	1.37
1	6	1025	A	C5-C6	-7.55	1.34	1.41
36	5	2639	G	N3-C4	-7.55	1.30	1.35
36	5	2936	A	N9-C8	-7.55	1.31	1.37
36	1	2422	C	N3-C4	-7.54	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3130	A	N7-C5	-7.54	1.34	1.39
36	5	418	A	N3-C4	-7.53	1.30	1.34
36	1	2353	G	N7-C5	-7.53	1.34	1.39
36	1	1159	A	N9-C4	-7.53	1.33	1.37
36	1	596	C	N3-C4	-7.52	1.28	1.33
36	5	1402	C	N1-C6	-7.52	1.32	1.37
1	6	1746	A	N3-C4	-7.52	1.30	1.34
36	5	799	G	N3-C4	-7.52	1.30	1.35
36	5	3227	A	C5-C6	-7.52	1.34	1.41
1	2	1655	A	N9-C4	-7.51	1.33	1.37
36	5	1332	A	C5-C6	-7.51	1.34	1.41
36	1	1854	C	N1-C6	-7.51	1.32	1.37
36	5	647	A	N7-C5	-7.51	1.34	1.39
36	5	2401	A	N3-C4	7.51	1.39	1.34
36	5	1127	G	N9-C8	-7.51	1.32	1.37
36	5	2936	A	C6-N1	-7.50	1.30	1.35
36	5	2920	U	N3-C4	-7.50	1.31	1.38
36	1	422	A	N7-C5	-7.49	1.34	1.39
36	1	937	G	C5-C6	-7.49	1.34	1.42
36	1	973	A	N9-C4	-7.49	1.33	1.37
36	1	220	G	N9-C4	-7.49	1.31	1.38
36	1	1887	A	N9-C4	-7.49	1.33	1.37
36	5	2375	G	N7-C5	-7.48	1.34	1.39
36	1	660	A	C6-N1	-7.48	1.30	1.35
36	5	2877	G	C6-N1	-7.48	1.34	1.39
36	1	810	A	C6-N1	-7.48	1.30	1.35
36	5	1879	A	N9-C4	-7.48	1.33	1.37
36	1	1131	G	N9-C8	-7.48	1.32	1.37
36	5	2922	G	C6-N1	-7.47	1.34	1.39
36	1	979	U	N1-C2	7.47	1.45	1.38
36	5	941	G	C5-C4	-7.47	1.33	1.38
36	1	401	U	N1-C2	7.47	1.45	1.38
36	1	645	A	N9-C4	7.47	1.42	1.37
36	1	2373	A	N3-C4	-7.47	1.30	1.34
36	1	365	A	N3-C4	-7.47	1.30	1.34
38	8	2	A	N3-C4	-7.47	1.30	1.34
36	5	1177	G	C6-N1	-7.46	1.34	1.39
1	6	623	A	N9-C4	-7.46	1.33	1.37
36	1	2755	C	N3-C4	-7.46	1.28	1.33
1	2	377	G	N9-C4	-7.45	1.31	1.38
36	5	2952	G	N7-C5	-7.45	1.34	1.39
36	5	503	C	N1-C6	-7.45	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	943	U	N1-C6	-7.45	1.31	1.38
36	1	2635	A	N3-C4	-7.44	1.30	1.34
36	1	1366	A	C6-N1	-7.44	1.30	1.35
36	1	1366	A	C6-N6	-7.44	1.27	1.33
36	5	2620	G	N3-C4	-7.44	1.30	1.35
37	7	113	C	N1-C6	-7.44	1.32	1.37
36	1	2983	C	N3-C4	-7.43	1.28	1.33
1	6	1131	A	N7-C5	-7.43	1.34	1.39
36	5	669	U	N1-C2	7.43	1.45	1.38
36	5	2976	A	N3-C4	-7.43	1.30	1.34
70	o4	84	CYS	CB-SG	-7.43	1.69	1.82
36	1	2377	G	C5-C4	-7.43	1.33	1.38
36	5	1374	G	C5-C6	-7.43	1.34	1.42
36	5	2385	G	N7-C5	-7.42	1.34	1.39
36	5	408	A	N3-C4	-7.42	1.30	1.34
37	7	102	A	C5-C4	-7.42	1.33	1.38
36	1	699	A	N9-C4	-7.42	1.33	1.37
36	5	2125	A	N3-C4	-7.42	1.30	1.34
36	5	3005	A	N9-C8	-7.41	1.31	1.37
36	5	3035	A	N3-C4	-7.41	1.30	1.34
36	1	909	G	N7-C5	-7.41	1.34	1.39
36	5	706	A	N9-C4	-7.41	1.33	1.37
36	1	1542	G	C5-C6	-7.40	1.34	1.42
36	1	2412	G	N1-C2	-7.40	1.31	1.37
36	1	2869	U	N1-C2	-7.40	1.31	1.38
36	1	1313	G	N9-C4	-7.40	1.32	1.38
36	1	2639	G	N9-C4	-7.40	1.32	1.38
38	8	2	A	C6-N1	-7.40	1.30	1.35
36	1	2954	U	N3-C4	7.39	1.45	1.38
1	6	506	A	N9-C4	7.39	1.42	1.37
1	2	1455	G	C6-O6	7.39	1.30	1.24
36	1	1154	A	C5-C4	-7.39	1.33	1.38
36	1	1901	A	C5-C4	-7.39	1.33	1.38
36	1	2371	G	C6-N1	-7.39	1.34	1.39
36	1	2387	A	C6-N6	-7.39	1.28	1.33
1	6	456	A	N3-C4	-7.38	1.30	1.34
36	5	2943	G	C5-C6	-7.38	1.34	1.42
36	5	2969	A	N3-C4	-7.38	1.30	1.34
36	5	2374	C	N1-C6	-7.37	1.32	1.37
36	5	1310	G	C5-C6	-7.37	1.34	1.42
36	5	2823	G	N7-C5	-7.36	1.34	1.39
38	8	53	A	C5-C4	-7.36	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	1336	A	N9-C4	-7.36	1.33	1.37
36	1	2358	A	N9-C4	-7.36	1.33	1.37
37	3	82	G	N3-C4	-7.36	1.30	1.35
36	5	2662	G	N9-C8	-7.36	1.32	1.37
36	5	1128	U	N1-C2	-7.36	1.31	1.38
1	6	1525	A	N3-C4	-7.35	1.30	1.34
36	1	28	C	N1-C6	-7.35	1.32	1.37
36	1	2916	U	C2-O2	7.34	1.28	1.22
36	1	608	A	N9-C4	7.34	1.42	1.37
36	5	1116	G	C6-N1	-7.34	1.34	1.39
36	5	3085	G	N1-C2	-7.34	1.31	1.37
36	1	189	G	C6-N1	-7.33	1.34	1.39
37	7	104	A	N3-C4	-7.33	1.30	1.34
37	3	95	A	C5-C6	-7.32	1.34	1.41
36	1	2652	U	N1-C2	-7.32	1.31	1.38
36	5	2833	A	C5-C4	-7.31	1.33	1.38
36	5	2994	A	N7-C5	-7.31	1.34	1.39
36	5	1182	A	N3-C4	-7.31	1.30	1.34
36	5	3017	A	C5-C4	-7.31	1.33	1.38
36	5	1006	A	N3-C4	-7.31	1.30	1.34
36	5	3041	U	C2-N3	-7.31	1.32	1.37
36	1	808	A	N3-C4	-7.31	1.30	1.34
36	5	878	G	N9-C4	7.30	1.43	1.38
36	1	2605	G	N7-C5	-7.30	1.34	1.39
36	1	3307	A	C5-C6	-7.30	1.34	1.41
36	5	1849	C	N1-C6	-7.29	1.32	1.37
1	6	1645	G	N3-C4	7.29	1.40	1.35
36	5	1048	A	N3-C4	-7.29	1.30	1.34
36	5	3048	A	N9-C4	-7.29	1.33	1.37
36	1	1203	A	N9-C4	-7.29	1.33	1.37
1	2	1336	A	N9-C4	-7.29	1.33	1.37
36	1	408	A	C6-N1	-7.29	1.30	1.35
1	6	746	A	N7-C5	-7.29	1.34	1.39
42	15	193	GLU	CG-CD	7.28	1.62	1.51
38	8	138	A	C6-N1	-7.28	1.30	1.35
36	1	2344	U	N1-C2	-7.28	1.32	1.38
36	1	385	A	N3-C4	-7.27	1.30	1.34
36	1	1594	A	C6-N1	-7.27	1.30	1.35
36	5	417	A	N3-C4	-7.27	1.30	1.34
36	5	1307	G	C5-C4	-7.27	1.33	1.38
36	1	2802	A	C5-C4	-7.27	1.33	1.38
36	5	1556	C	N1-C2	7.27	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	933	A	N9-C4	7.26	1.42	1.37
36	1	408	A	C5-C4	-7.26	1.33	1.38
36	1	1131	G	C5-C4	-7.26	1.33	1.38
36	5	2900	A	N7-C5	-7.26	1.34	1.39
36	5	2796	G	N9-C8	-7.25	1.32	1.37
36	5	3180	A	N9-C4	-7.25	1.33	1.37
1	6	163	G	N9-C4	-7.25	1.32	1.38
36	1	52	A	N3-C4	-7.24	1.30	1.34
36	5	2986	U	C2-O2	-7.24	1.15	1.22
36	1	2864	A	N9-C4	-7.24	1.33	1.37
36	1	2937	G	C5-C4	-7.24	1.33	1.38
36	1	2639	G	C2-N3	-7.24	1.26	1.32
38	4	104	A	N9-C4	-7.24	1.33	1.37
36	5	2957	G	N9-C4	-7.23	1.32	1.38
36	5	426	G	C5-C4	-7.23	1.33	1.38
36	5	1327	C	N3-C4	-7.23	1.28	1.33
36	5	1053	A	N9-C4	-7.23	1.33	1.37
36	5	2863	G	N9-C4	-7.23	1.32	1.38
36	1	1134	G	N3-C4	-7.23	1.30	1.35
36	5	1116	G	C5-C6	-7.23	1.35	1.42
36	5	2954	U	N1-C2	7.22	1.45	1.38
36	1	1432	C	C2-O2	-7.22	1.18	1.24
36	5	2897	A	N3-C4	-7.22	1.30	1.34
36	5	3172	A	C5-C4	-7.22	1.33	1.38
36	5	1309	U	C2-N3	-7.22	1.32	1.37
36	5	940	G	N7-C5	7.22	1.43	1.39
36	5	1892	G	N7-C5	-7.22	1.34	1.39
36	1	2640	A	N9-C4	-7.22	1.33	1.37
1	6	1777	G	C5-C6	-7.22	1.35	1.42
36	1	908	G	N7-C5	-7.21	1.34	1.39
36	1	2168	A	N3-C4	-7.21	1.30	1.34
37	7	73	C	N1-C2	7.21	1.47	1.40
36	5	1140	G	C5-C4	-7.21	1.33	1.38
36	1	913	A	C5-C6	-7.21	1.34	1.41
36	1	1197	A	N7-C5	-7.21	1.34	1.39
36	1	2874	G	N9-C4	7.21	1.43	1.38
36	5	958	C	C4-C5	-7.20	1.37	1.43
36	5	803	C	C4-C5	-7.20	1.37	1.43
36	1	282	G	C2-N3	-7.20	1.26	1.32
36	5	799	G	N9-C4	-7.20	1.32	1.38
36	1	2156	C	N1-C6	-7.19	1.32	1.37
36	1	1506	A	N7-C5	-7.18	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	407	A	N9-C8	-7.18	1.32	1.37
36	5	607	A	N3-C4	-7.18	1.30	1.34
36	1	659	G	N9-C8	-7.18	1.32	1.37
37	7	49	G	N7-C5	-7.18	1.34	1.39
36	5	2367	A	N3-C4	-7.18	1.30	1.34
36	5	1933	A	N3-C4	-7.17	1.30	1.34
36	1	585	A	N3-C4	-7.17	1.30	1.34
36	1	2802	A	N7-C5	-7.17	1.34	1.39
36	5	3376	A	N3-C4	-7.17	1.30	1.34
76	Q0	99	CYS	CB-SG	-7.17	1.70	1.82
36	5	1116	G	N3-C4	-7.17	1.30	1.35
36	1	2912	G	C6-N1	-7.17	1.34	1.39
36	5	2931	C	C4-N4	-7.17	1.27	1.33
1	6	1313	A	N9-C4	-7.17	1.33	1.37
36	5	1006	A	N9-C4	-7.17	1.33	1.37
36	1	2999	U	C2-N3	-7.17	1.32	1.37
36	1	883	A	N9-C4	-7.16	1.33	1.37
36	1	1116	G	N3-C4	-7.16	1.30	1.35
36	1	2371	G	N7-C5	-7.16	1.34	1.39
36	5	1041	U	N1-C2	-7.16	1.32	1.38
36	1	3277	U	N1-C2	7.16	1.45	1.38
7	s5	87	CYS	CB-SG	-7.16	1.70	1.82
36	1	2187	G	C6-N1	-7.16	1.34	1.39
36	1	2117	A	C5-C4	-7.16	1.33	1.38
36	5	2400	G	N9-C4	-7.15	1.32	1.38
36	5	3189	G	N9-C8	-7.15	1.32	1.37
36	1	2296	A	C5-C6	-7.15	1.34	1.41
36	1	3130	A	N3-C4	-7.15	1.30	1.34
36	5	2857	C	N1-C6	-7.15	1.32	1.37
36	1	80	G	C6-N1	-7.14	1.34	1.39
36	5	677	A	C5-C6	-7.14	1.34	1.41
36	5	2919	A	C6-N1	-7.14	1.30	1.35
36	5	2799	A	N9-C4	-7.14	1.33	1.37
36	5	789	A	N3-C4	-7.14	1.30	1.34
36	1	789	A	N3-C4	-7.14	1.30	1.34
36	5	1145	G	C5-C4	-7.13	1.33	1.38
36	5	2338	C	N1-C6	-7.13	1.32	1.37
1	6	1100	G	N9-C4	-7.13	1.32	1.38
36	5	3016	A	C6-N1	-7.12	1.30	1.35
36	5	3085	G	C6-N1	-7.12	1.34	1.39
36	5	995	U	C2-N3	-7.12	1.32	1.37
36	5	1054	A	N9-C4	-7.12	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	3015	G	N9-C4	-7.12	1.32	1.38
36	5	2953	U	C4-O4	7.11	1.29	1.23
36	5	917	A	N3-C4	-7.11	1.30	1.34
36	5	3310	A	C6-N1	-7.11	1.30	1.35
36	1	911	C	N3-C4	-7.11	1.28	1.33
36	1	1116	G	N7-C5	-7.11	1.34	1.39
36	5	3122	A	N9-C4	-7.10	1.33	1.37
36	5	731	U	C2-N3	-7.10	1.32	1.37
36	5	911	C	N1-C6	-7.10	1.32	1.37
36	5	2995	A	N9-C4	-7.10	1.33	1.37
1	2	615	A	N9-C4	7.10	1.42	1.37
36	5	96	G	N7-C5	7.10	1.43	1.39
36	5	1887	A	N3-C4	-7.10	1.30	1.34
36	1	2878	G	N3-C4	-7.10	1.30	1.35
36	5	3053	G	N9-C8	-7.10	1.32	1.37
1	6	1614	A	C5-C6	-7.09	1.34	1.41
36	5	3172	A	N9-C4	-7.09	1.33	1.37
59	n3	39	VAL	CA-CB	-7.09	1.39	1.54
36	5	795	G	N1-C2	-7.09	1.32	1.37
36	5	2736	A	N9-C4	-7.09	1.33	1.37
47	m0	71	CYS	CB-SG	7.09	1.94	1.82
36	1	1307	G	P-O5'	-7.08	1.52	1.59
1	6	1658	G	N3-C4	-7.08	1.30	1.35
36	5	1289	G	N1-C2	-7.08	1.32	1.37
36	5	589	A	N7-C5	-7.08	1.35	1.39
36	5	2996	U	C2-N3	7.08	1.42	1.37
36	5	2401	A	C5-C6	7.08	1.47	1.41
36	1	808	A	C5-C4	-7.07	1.33	1.38
36	5	2743	A	N9-C8	-7.07	1.32	1.37
36	5	2919	A	N3-C4	-7.07	1.30	1.34
36	5	3189	G	N1-C2	-7.07	1.32	1.37
36	5	1175	C	C2-N3	-7.07	1.30	1.35
36	5	1332	A	C5-C4	-7.06	1.33	1.38
36	1	2939	G	N9-C8	-7.06	1.32	1.37
36	5	818	C	N1-C6	-7.06	1.32	1.37
36	5	1202	A	N7-C5	-7.06	1.35	1.39
36	5	2936	A	N1-C2	-7.06	1.27	1.34
1	6	1504	G	N3-C4	-7.06	1.30	1.35
36	5	61	A	C6-N1	-7.05	1.30	1.35
36	5	637	C	C4-C5	-7.05	1.37	1.43
53	M7	138	LYS	CD-CE	7.05	1.68	1.51
36	5	2733	A	N9-C4	-7.05	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	3344	A	N3-C4	-7.05	1.30	1.34
36	5	866	A	N9-C4	-7.04	1.33	1.37
36	5	1099	A	N9-C4	-7.04	1.33	1.37
36	1	422	A	C5-C4	-7.04	1.33	1.38
36	1	3006	A	N7-C5	-7.04	1.35	1.39
36	1	45	A	N9-C4	-7.04	1.33	1.37
36	1	2330	C	N3-C4	-7.04	1.29	1.33
36	5	522	A	N9-C4	-7.04	1.33	1.37
36	5	2968	G	N9-C4	-7.04	1.32	1.38
36	5	2872	A	C6-N1	7.03	1.40	1.35
36	5	1184	A	N9-C4	-7.03	1.33	1.37
36	5	1348	U	N1-C2	7.03	1.44	1.38
36	5	1310	G	C6-O6	-7.03	1.17	1.24
36	5	2813	A	N3-C4	-7.02	1.30	1.34
36	5	2833	A	N3-C4	-7.02	1.30	1.34
36	5	2359	C	N1-C6	-7.02	1.32	1.37
36	1	920	A	N3-C4	-7.02	1.30	1.34
38	8	111	A	N9-C4	-7.02	1.33	1.37
1	6	1005	A	C6-N1	-7.02	1.30	1.35
36	5	2837	A	C5-C4	-7.02	1.33	1.38
36	1	2207	A	N9-C4	7.01	1.42	1.37
36	5	416	A	N9-C4	-7.01	1.33	1.37
36	5	1150	A	N9-C4	-7.01	1.33	1.37
36	5	67	A	N9-C4	-7.01	1.33	1.37
52	M6	40	GLU	CB-CG	7.01	1.65	1.52
36	1	1504	A	N3-C4	-7.00	1.30	1.34
36	1	2404	A	C6-N1	7.00	1.40	1.35
36	5	2976	A	N9-C4	-7.00	1.33	1.37
36	1	860	G	N7-C5	-7.00	1.35	1.39
36	1	1409	G	N7-C5	-7.00	1.35	1.39
36	1	1880	U	C2-N3	-7.00	1.32	1.37
36	1	1401	A	N3-C4	-7.00	1.30	1.34
36	1	3084	C	N3-C4	-7.00	1.29	1.33
36	5	1332	A	N3-C4	-7.00	1.30	1.34
1	6	1201	G	N9-C4	-6.99	1.32	1.38
36	5	3206	C	N3-C4	-6.99	1.29	1.33
38	4	54	A	N7-C5	-6.99	1.35	1.39
36	5	289	A	N9-C4	-6.99	1.33	1.37
36	5	2665	U	C4-O4	-6.99	1.18	1.23
36	1	2303	A	N3-C4	-6.99	1.30	1.34
1	6	580	A	N9-C4	6.99	1.42	1.37
36	1	812	G	N3-C4	-6.99	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	787	G	N9-C8	-6.99	1.32	1.37
36	1	2689	A	N3-C4	-6.99	1.30	1.34
36	5	1298	C	N1-C6	-6.99	1.32	1.37
36	5	1404	G	C6-N1	-6.99	1.34	1.39
36	5	1437	C	N1-C6	-6.99	1.32	1.37
36	5	2876	C	C2-N3	-6.99	1.30	1.35
36	5	2367	A	C6-N1	-6.98	1.30	1.35
37	3	56	A	N9-C4	-6.98	1.33	1.37
36	1	89	A	N3-C4	-6.98	1.30	1.34
36	5	1107	C	N1-C6	-6.97	1.32	1.37
36	1	1131	G	N9-C4	-6.97	1.32	1.38
36	1	2960	C	C2-N3	-6.97	1.30	1.35
36	5	2884	C	N1-C6	-6.97	1.32	1.37
36	5	2898	G	N9-C8	-6.97	1.32	1.37
36	5	3016	A	C5-C6	-6.97	1.34	1.41
36	5	969	C	N1-C6	-6.97	1.32	1.37
36	1	3316	A	N9-C4	-6.97	1.33	1.37
1	6	1108	G	C6-N1	-6.97	1.34	1.39
36	5	2607	G	N7-C5	-6.97	1.35	1.39
36	1	911	C	N1-C6	-6.96	1.32	1.37
36	1	1100	U	C2-N3	-6.96	1.32	1.37
36	5	1163	A	C6-N1	-6.96	1.30	1.35
36	1	2404	A	N7-C5	6.96	1.43	1.39
36	5	2259	A	N9-C4	-6.96	1.33	1.37
36	1	2986	U	C4-C5	-6.96	1.37	1.43
36	5	3203	U	C2-N3	-6.95	1.32	1.37
36	5	2284	C	C4-C5	-6.95	1.37	1.43
36	5	2874	G	C6-O6	6.95	1.30	1.24
36	5	2956	A	C6-N1	-6.95	1.30	1.35
36	5	94	G	N7-C5	-6.94	1.35	1.39
36	5	943	U	N1-C2	-6.94	1.32	1.38
36	1	635	G	C6-O6	-6.94	1.18	1.24
36	1	806	A	C6-N1	-6.94	1.30	1.35
36	5	583	G	C5-C4	-6.94	1.33	1.38
36	5	3017	A	C6-N1	-6.94	1.30	1.35
1	6	746	A	C5-C6	-6.94	1.34	1.41
36	5	3106	A	N7-C5	-6.94	1.35	1.39
36	5	1146	C	C4-C5	-6.94	1.37	1.43
36	5	3242	G	C6-N1	-6.94	1.34	1.39
36	1	206	G	C5-C4	-6.93	1.33	1.38
36	1	660	A	N7-C5	-6.93	1.35	1.39
36	1	3142	A	C5-C4	-6.93	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	1660	A	N7-C5	-6.93	1.35	1.39
36	5	3060	C	C4-C5	-6.93	1.37	1.43
36	1	1310	G	N9-C4	-6.93	1.32	1.38
36	1	85	A	N3-C4	-6.93	1.30	1.34
36	1	2308	C	N1-C6	-6.92	1.32	1.37
1	6	1116	A	N7-C5	-6.92	1.35	1.39
36	5	2903	A	N3-C4	-6.92	1.30	1.34
36	5	3140	G	C5-C6	-6.92	1.35	1.42
36	1	3150	A	N9-C4	-6.91	1.33	1.37
36	5	1867	A	N3-C4	-6.91	1.30	1.34
36	5	3045	G	N7-C5	-6.91	1.35	1.39
36	1	2796	G	N1-C2	-6.91	1.32	1.37
36	1	952	A	N3-C4	-6.91	1.30	1.34
36	5	897	U	N1-C2	-6.91	1.32	1.38
36	5	1405	U	N1-C2	-6.91	1.32	1.38
36	1	1153	A	N7-C5	-6.90	1.35	1.39
36	1	218	G	C5-C4	-6.90	1.33	1.38
36	1	918	C	N3-C4	-6.90	1.29	1.33
36	1	2914	G	N3-C4	-6.90	1.30	1.35
36	5	2405	C	N3-C4	-6.90	1.29	1.33
36	1	272	G	N9-C4	-6.90	1.32	1.38
36	5	2402	A	N3-C4	-6.90	1.30	1.34
1	2	104	A	N9-C4	6.90	1.42	1.37
36	1	589	A	N9-C8	-6.90	1.32	1.37
36	5	2246	G	N7-C5	-6.89	1.35	1.39
36	1	2185	G	N7-C5	-6.89	1.35	1.39
36	5	3016	A	C6-N6	-6.89	1.28	1.33
36	1	656	A	C5-C4	-6.89	1.33	1.38
36	1	1186	G	N1-C2	-6.89	1.32	1.37
36	5	3005	A	C5-C6	-6.89	1.34	1.41
36	5	651	G	N7-C5	-6.88	1.35	1.39
36	5	1150	A	N7-C5	-6.88	1.35	1.39
36	5	654	C	N1-C2	-6.88	1.33	1.40
36	1	338	A	N7-C5	-6.88	1.35	1.39
36	5	352	A	N9-C4	-6.88	1.33	1.37
36	5	1318	A	N3-C4	-6.88	1.30	1.34
36	5	3127	A	C6-N6	-6.88	1.28	1.33
36	5	3172	A	C5-C6	-6.88	1.34	1.41
36	1	1583	A	N3-C4	-6.88	1.30	1.34
36	1	2802	A	N3-C4	-6.88	1.30	1.34
36	5	1924	U	N1-C2	-6.88	1.32	1.38
36	1	1146	C	N1-C6	-6.87	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	521	A	N3-C4	-6.87	1.30	1.34
36	5	1076	C	N1-C6	-6.87	1.33	1.37
36	5	1136	A	N7-C5	-6.87	1.35	1.39
36	5	2689	A	C6-N1	-6.87	1.30	1.35
36	1	2878	G	N9-C4	-6.87	1.32	1.38
36	5	2145	A	C5-C6	-6.87	1.34	1.41
36	5	2284	C	N3-C4	-6.87	1.29	1.33
36	1	589	A	C5-C4	-6.87	1.33	1.38
36	5	2616	C	N1-C6	-6.87	1.33	1.37
1	6	427	C	N3-C4	-6.87	1.29	1.33
36	5	1131	G	N3-C4	-6.87	1.30	1.35
36	5	3038	U	N3-C4	-6.87	1.32	1.38
36	1	2802	A	C6-N1	-6.87	1.30	1.35
36	1	587	U	N1-C2	-6.87	1.32	1.38
36	1	2364	G	N9-C8	-6.86	1.33	1.37
36	1	2985	C	N3-C4	-6.86	1.29	1.33
36	5	406	G	N9-C4	-6.86	1.32	1.38
36	5	1477	A	C6-N1	-6.86	1.30	1.35
36	1	2377	G	C6-O6	-6.86	1.18	1.24
36	1	2287	C	N1-C6	-6.86	1.33	1.37
36	1	1120	A	N3-C4	-6.86	1.30	1.34
36	1	1893	A	N3-C4	-6.86	1.30	1.34
57	n1	104	GLU	CG-CD	6.86	1.62	1.51
36	5	1141	C	N3-C4	-6.86	1.29	1.33
36	5	3146	G	C8-N7	-6.86	1.26	1.30
37	7	72	A	N9-C4	6.86	1.42	1.37
1	6	797	G	C5-C4	-6.85	1.33	1.38
36	5	2853	A	C5-C6	-6.85	1.34	1.41
71	O5	64	GLU	CG-CD	6.85	1.62	1.51
1	6	1537	C	C5-C6	6.85	1.39	1.34
36	5	2821	C	N3-C4	6.85	1.38	1.33
36	1	1340	G	N7-C5	-6.85	1.35	1.39
36	5	695	C	N1-C6	-6.85	1.33	1.37
36	5	3036	G	N3-C4	-6.85	1.30	1.35
37	7	88	G	N7-C5	-6.85	1.35	1.39
36	1	654	C	N1-C6	-6.84	1.33	1.37
36	5	21	G	N3-C4	-6.84	1.30	1.35
36	5	1456	A	N3-C4	-6.84	1.30	1.34
1	2	1270	G	N7-C5	-6.84	1.35	1.39
36	1	1139	G	N9-C4	-6.84	1.32	1.38
36	1	2969	A	N3-C4	-6.84	1.30	1.34
36	5	2931	C	C4-C5	-6.84	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1554	U	C2-N3	6.84	1.42	1.37
36	5	1149	G	C6-N1	6.84	1.44	1.39
36	5	2847	A	N3-C4	-6.84	1.30	1.34
36	5	2967	A	N3-C4	-6.84	1.30	1.34
1	6	100	A	C5-C6	-6.84	1.34	1.41
1	6	971	A	N9-C4	-6.84	1.33	1.37
36	5	2895	G	N3-C4	-6.84	1.30	1.35
36	5	3127	A	C6-N1	-6.84	1.30	1.35
36	1	344	A	N9-C4	-6.83	1.33	1.37
36	1	2394	G	N9-C8	-6.83	1.33	1.37
36	1	1428	A	C5-C6	-6.83	1.34	1.41
36	1	2960	C	N3-C4	-6.83	1.29	1.33
1	6	441	A	N7-C5	-6.83	1.35	1.39
36	5	1403	C	N1-C6	-6.83	1.33	1.37
36	1	2821	C	N3-C4	6.83	1.38	1.33
36	1	904	A	N9-C4	-6.83	1.33	1.37
36	1	2386	A	N3-C4	-6.83	1.30	1.34
36	1	3273	A	C5-C4	-6.82	1.33	1.38
36	5	3226	A	N3-C4	-6.82	1.30	1.34
36	1	34	A	N3-C4	-6.82	1.30	1.34
36	1	1881	A	N3-C4	-6.82	1.30	1.34
36	5	2184	U	C2-N3	-6.82	1.32	1.37
36	1	2639	G	N3-C4	-6.82	1.30	1.35
36	1	1366	A	N7-C5	-6.81	1.35	1.39
36	1	2834	G	N9-C4	-6.81	1.32	1.38
36	5	2994	A	C6-N1	-6.81	1.30	1.35
36	1	2617	U	N3-C4	-6.81	1.32	1.38
36	1	3130	A	C6-N1	-6.81	1.30	1.35
36	5	3091	A	N3-C4	-6.81	1.30	1.34
36	1	1901	A	N3-C4	-6.80	1.30	1.34
36	1	2875	U	C2-O2	6.80	1.28	1.22
36	5	1289	G	C6-N1	-6.80	1.34	1.39
36	1	1887	A	C5-C6	-6.80	1.34	1.41
1	6	1732	A	N9-C4	-6.80	1.33	1.37
36	1	2919	A	N9-C4	-6.79	1.33	1.37
36	1	663	C	N1-C6	-6.79	1.33	1.37
36	1	218	G	N9-C4	-6.79	1.32	1.38
36	1	2633	U	N1-C2	-6.79	1.32	1.38
47	M0	186	GLU	CG-CD	6.79	1.62	1.51
36	5	2099	A	N9-C4	6.79	1.42	1.37
36	1	358	G	N9-C4	-6.79	1.32	1.38
36	1	364	G	N7-C5	-6.79	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2385	G	N9-C4	-6.78	1.32	1.38
36	5	3127	A	N7-C5	-6.78	1.35	1.39
36	1	952	A	N9-C4	-6.78	1.33	1.37
36	1	2143	A	C5-C4	-6.78	1.34	1.38
36	5	3272	C	N3-C4	-6.78	1.29	1.33
36	5	217	U	N3-C4	-6.78	1.32	1.38
36	1	1913	A	N9-C4	-6.77	1.33	1.37
36	5	2290	C	N1-C6	-6.77	1.33	1.37
36	5	2794	G	C5-C4	-6.77	1.33	1.38
36	1	2205	U	N1-C2	6.77	1.44	1.38
36	1	2809	C	N1-C6	-6.77	1.33	1.37
36	5	1217	A	N3-C4	-6.76	1.30	1.34
36	5	3045	G	C6-N1	-6.76	1.34	1.39
36	5	2892	A	N7-C5	-6.76	1.35	1.39
36	1	282	G	N1-C2	-6.76	1.32	1.37
36	1	1103	A	C5-C4	6.76	1.43	1.38
1	6	1093	A	N9-C4	6.76	1.42	1.37
36	5	3043	C	N3-C4	-6.76	1.29	1.33
36	1	1887	A	N7-C5	-6.76	1.35	1.39
36	1	2956	A	C5-C6	-6.76	1.34	1.41
36	5	1115	G	C5-C6	-6.76	1.35	1.42
36	1	635	G	C6-N1	-6.76	1.34	1.39
1	6	1762	A	N3-C4	-6.76	1.30	1.34
36	5	402	A	N3-C4	-6.76	1.30	1.34
36	5	2151	C	N1-C2	-6.76	1.33	1.40
36	5	3199	G	C5-C4	-6.75	1.33	1.38
1	6	46	A	C5-C6	-6.75	1.34	1.41
36	5	633	C	N1-C6	-6.75	1.33	1.37
36	5	2864	A	C5-C6	-6.75	1.34	1.41
25	d3	63	GLN	CG-CD	6.75	1.66	1.51
36	5	3275	U	N1-C2	6.75	1.44	1.38
36	1	2613	U	N1-C2	-6.75	1.32	1.38
1	6	19	A	N3-C4	-6.75	1.30	1.34
36	5	3209	A	N3-C4	6.75	1.38	1.34
36	5	1430	U	N1-C6	-6.74	1.31	1.38
36	1	2748	A	N9-C4	-6.74	1.33	1.37
36	1	109	A	N3-C4	-6.74	1.30	1.34
1	6	179	A	N9-C4	6.74	1.41	1.37
36	1	2374	C	N3-C4	-6.74	1.29	1.33
36	1	900	G	C5-C4	-6.74	1.33	1.38
52	M6	40	GLU	CG-CD	6.74	1.62	1.51
1	6	391	A	N9-C4	-6.74	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	628	A	N3-C4	-6.73	1.30	1.34
36	1	2302	G	N1-C2	-6.73	1.32	1.37
36	5	1433	A	N7-C5	-6.73	1.35	1.39
36	5	2946	A	N9-C4	-6.73	1.33	1.37
40	13	66	LYS	CD-CE	6.73	1.68	1.51
36	5	2938	G	C5-C4	-6.73	1.33	1.38
36	1	1429	G	N1-C2	-6.72	1.32	1.37
36	1	2948	C	N1-C6	-6.72	1.33	1.37
36	5	189	G	C6-N1	-6.72	1.34	1.39
36	1	211	A	N9-C4	-6.72	1.33	1.37
36	1	1886	A	N9-C4	-6.72	1.33	1.37
36	5	924	G	N3-C4	-6.72	1.30	1.35
36	5	951	A	N9-C4	-6.72	1.33	1.37
36	5	2247	G	N1-C2	-6.72	1.32	1.37
36	5	2886	U	C2-N3	-6.72	1.33	1.37
36	5	3030	G	C5-C4	-6.72	1.33	1.38
36	5	3226	A	N9-C4	-6.72	1.33	1.37
36	1	693	A	N9-C4	-6.71	1.33	1.37
36	5	1300	G	C8-N7	-6.71	1.26	1.30
37	7	5	G	C5-C4	-6.71	1.33	1.38
37	7	29	C	N1-C6	-6.71	1.33	1.37
36	1	2137	U	N1-C6	-6.71	1.31	1.38
36	5	1845	G	C5-C4	-6.71	1.33	1.38
36	5	2837	A	N3-C4	-6.71	1.30	1.34
36	5	2911	A	N7-C5	-6.71	1.35	1.39
36	5	2980	U	C4-O4	-6.71	1.18	1.23
36	1	920	A	C6-N1	-6.70	1.30	1.35
36	5	2126	A	C5-C4	-6.70	1.34	1.38
36	1	34	A	N9-C4	-6.70	1.33	1.37
36	1	343	U	N1-C6	-6.70	1.31	1.38
36	5	958	C	C2-N3	-6.70	1.30	1.35
36	1	2385	G	C5-C4	-6.70	1.33	1.38
36	5	2956	A	C5-C6	-6.70	1.35	1.41
36	5	2963	C	N1-C2	-6.70	1.33	1.40
36	1	1306	G	N7-C5	-6.70	1.35	1.39
36	1	2954	U	C2-N3	6.70	1.42	1.37
20	c8	47	CYS	CB-SG	-6.70	1.70	1.82
36	5	1867	A	C6-N1	-6.70	1.30	1.35
36	1	1432	C	C2-N3	-6.69	1.30	1.35
1	6	310	C	C4-C5	-6.69	1.37	1.43
38	8	12	A	N9-C4	6.69	1.41	1.37
36	1	220	G	N3-C4	-6.69	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	52	A	N3-C4	-6.69	1.30	1.34
36	5	3295	A	C6-N1	-6.69	1.30	1.35
36	5	1883	A	N9-C4	-6.69	1.33	1.37
56	n0	128	GLU	CB-CG	6.69	1.64	1.52
36	1	2847	A	N9-C4	-6.69	1.33	1.37
36	5	2813	A	N9-C4	-6.69	1.33	1.37
36	1	904	A	N3-C4	-6.68	1.30	1.34
69	O3	71	VAL	CB-CG1	-6.68	1.38	1.52
36	5	1064	A	N9-C4	-6.68	1.33	1.37
36	5	1296	C	N3-C4	-6.68	1.29	1.33
36	1	361	A	N9-C4	-6.68	1.33	1.37
1	2	1654	G	N1-C2	-6.68	1.32	1.37
1	6	46	A	N7-C5	-6.68	1.35	1.39
1	6	758	U	N3-C4	-6.68	1.32	1.38
1	6	982	U	C2-N3	-6.68	1.33	1.37
36	5	1116	G	N9-C8	-6.68	1.33	1.37
36	5	1173	U	N3-C4	-6.68	1.32	1.38
36	5	2404	A	C6-N1	6.68	1.40	1.35
36	5	2416	U	C2-N3	-6.68	1.33	1.37
36	5	1197	A	N9-C4	-6.68	1.33	1.37
36	1	2762	A	C5-C4	-6.68	1.34	1.38
1	6	369	A	N9-C4	6.68	1.41	1.37
1	6	758	U	C2-N3	-6.68	1.33	1.37
36	5	900	G	N7-C5	-6.68	1.35	1.39
36	1	1915	A	N9-C4	-6.67	1.33	1.37
38	8	15	G	C6-N1	-6.67	1.34	1.39
36	5	647	A	N9-C4	-6.67	1.33	1.37
36	1	2979	U	P-O5'	-6.67	1.53	1.59
36	5	973	A	N7-C5	-6.67	1.35	1.39
36	1	1158	A	C5-C4	-6.67	1.34	1.38
36	1	100	A	N7-C5	-6.67	1.35	1.39
36	5	583	G	N7-C5	-6.67	1.35	1.39
36	1	2129	U	C2-N3	-6.66	1.33	1.37
1	6	23	G	N3-C4	-6.66	1.30	1.35
36	5	1306	G	N3-C4	-6.66	1.30	1.35
36	5	3295	A	N3-C4	-6.66	1.30	1.34
36	1	1440	G	C5-C4	-6.66	1.33	1.38
1	6	1087	A	C6-N1	-6.66	1.30	1.35
36	5	2689	A	N7-C5	-6.66	1.35	1.39
36	5	2374	C	N1-C2	-6.66	1.33	1.40
1	6	992	A	N7-C5	-6.66	1.35	1.39
36	1	1061	A	N9-C8	-6.65	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	585	A	C5-C4	-6.65	1.34	1.38
38	4	3	A	C5-C4	-6.65	1.34	1.38
36	5	2276	G	N3-C4	-6.65	1.30	1.35
36	5	2847	A	C5-C6	-6.65	1.35	1.41
36	1	2811	A	C5-C6	-6.65	1.35	1.41
1	6	797	G	N9-C4	-6.65	1.32	1.38
36	5	1128	U	C2-O2	-6.65	1.16	1.22
36	5	1887	A	N9-C4	-6.65	1.33	1.37
36	5	2313	A	N3-C4	-6.65	1.30	1.34
36	5	2637	A	C5-C6	-6.64	1.35	1.41
1	6	1337	A	N9-C4	-6.64	1.33	1.37
36	1	1369	A	N7-C5	-6.64	1.35	1.39
36	1	1398	U	C2-O2	-6.64	1.16	1.22
36	5	1417	G	C6-N1	-6.64	1.34	1.39
36	5	2941	A	N7-C5	-6.64	1.35	1.39
36	5	990	U	C2-N3	-6.64	1.33	1.37
36	5	1481	A	N7-C5	-6.64	1.35	1.39
1	2	1751	C	C2-N3	-6.63	1.30	1.35
36	1	2932	U	N3-C4	-6.63	1.32	1.38
1	6	342	C	N1-C6	-6.63	1.33	1.37
36	5	559	A	N7-C5	-6.63	1.35	1.39
36	5	2139	A	C6-N1	-6.63	1.30	1.35
36	5	2915	U	C4-C5	-6.63	1.37	1.43
40	13	251	CYS	CB-SG	-6.63	1.71	1.82
36	1	1320	C	N1-C6	-6.63	1.33	1.37
36	5	2915	U	N1-C2	-6.63	1.32	1.38
36	1	1910	A	C6-N1	-6.63	1.30	1.35
36	1	2831	G	C5-C6	-6.63	1.35	1.42
1	6	401	A	N3-C4	-6.63	1.30	1.34
36	5	944	C	N1-C6	-6.63	1.33	1.37
36	1	85	A	C6-N1	-6.63	1.30	1.35
36	5	920	A	C5-C6	-6.63	1.35	1.41
37	7	22	A	C6-N1	-6.62	1.30	1.35
36	1	85	A	N7-C5	-6.62	1.35	1.39
36	5	1310	G	N7-C5	-6.62	1.35	1.39
36	5	2335	G	C5-C4	-6.62	1.33	1.38
36	1	1435	A	C6-N1	-6.62	1.30	1.35
36	5	1899	G	N9-C8	-6.62	1.33	1.37
36	5	425	G	N9-C4	-6.62	1.32	1.38
36	1	1387	G	C6-N1	-6.61	1.34	1.39
1	6	1777	G	N7-C5	-6.61	1.35	1.39
36	5	2728	G	N7-C5	-6.61	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	1112	G	N3-C4	-6.61	1.30	1.35
36	1	788	C	N1-C6	-6.61	1.33	1.37
36	1	2994	A	N7-C5	-6.61	1.35	1.39
1	6	1763	A	N3-C4	-6.60	1.30	1.34
36	5	2796	G	C5-C4	-6.60	1.33	1.38
36	1	327	A	C5-C6	-6.60	1.35	1.41
36	1	943	U	C2-O2	-6.60	1.16	1.22
1	6	26	A	C6-N6	-6.60	1.28	1.33
36	5	1178	G	N1-C2	-6.60	1.32	1.37
36	5	3141	A	N3-C4	-6.60	1.30	1.34
38	8	2	A	C5-C6	-6.60	1.35	1.41
36	5	1515	A	N9-C4	-6.59	1.33	1.37
1	2	353	A	N7-C5	-6.59	1.35	1.39
36	1	2398	A	N9-C8	-6.59	1.32	1.37
36	1	3009	G	N7-C5	-6.59	1.35	1.39
36	5	2856	G	N7-C5	-6.59	1.35	1.39
36	1	96	G	N9-C4	-6.59	1.32	1.38
1	6	1226	A	N9-C4	6.59	1.41	1.37
36	5	2277	C	N1-C6	-6.59	1.33	1.37
36	1	709	A	C5-C4	-6.59	1.34	1.38
36	1	2377	G	N3-C4	-6.58	1.30	1.35
36	1	3005	A	N3-C4	-6.58	1.30	1.34
36	5	3047	U	N1-C2	-6.58	1.32	1.38
36	1	1159	A	N7-C5	-6.58	1.35	1.39
1	6	427	C	N1-C6	-6.58	1.33	1.37
36	5	1081	U	N1-C2	6.58	1.44	1.38
37	3	82	G	C6-N1	-6.58	1.34	1.39
36	1	2733	A	C5-C4	-6.58	1.34	1.38
36	5	2404	A	C6-N6	6.58	1.39	1.33
36	5	2828	G	N1-C2	-6.58	1.32	1.37
36	1	1704	A	N9-C4	-6.57	1.33	1.37
36	1	2613	U	C4-O4	6.57	1.28	1.23
1	6	1517	U	N1-C2	-6.57	1.32	1.38
36	5	2968	G	N3-C4	-6.57	1.30	1.35
36	5	1911	A	N3-C4	-6.57	1.30	1.34
36	5	2816	G	N3-C4	-6.57	1.30	1.35
36	1	796	U	C4-O4	-6.57	1.18	1.23
36	1	2365	C	N3-C4	-6.57	1.29	1.33
36	5	433	A	C5-C6	-6.57	1.35	1.41
36	5	3088	G	N7-C5	-6.57	1.35	1.39
1	6	388	G	N3-C4	-6.57	1.30	1.35
36	5	2296	A	N9-C8	-6.57	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2796	G	C8-N7	-6.57	1.27	1.30
47	m0	8	CYS	CB-SG	-6.57	1.71	1.82
36	1	1046	A	N9-C4	-6.57	1.33	1.37
37	7	88	G	C6-N1	-6.57	1.34	1.39
36	5	3004	C	C4-C5	-6.56	1.37	1.43
36	5	2750	U	C2-N3	-6.56	1.33	1.37
36	5	2332	A	C5-C4	-6.56	1.34	1.38
1	6	565	C	N1-C6	-6.56	1.33	1.37
36	5	2922	G	N3-C4	-6.56	1.30	1.35
36	5	3344	A	C5-C4	-6.56	1.34	1.38
36	1	32	U	N1-C6	-6.56	1.32	1.38
36	1	907	G	C2-N3	6.56	1.38	1.32
36	1	916	G	N3-C4	-6.56	1.30	1.35
36	5	2418	G	N1-C2	6.56	1.43	1.37
36	1	2659	G	N7-C5	-6.55	1.35	1.39
1	6	1112	G	N9-C4	-6.55	1.32	1.38
36	5	1310	G	C6-N1	-6.55	1.34	1.39
36	5	3061	G	N7-C5	-6.55	1.35	1.39
36	5	2977	G	N3-C4	-6.55	1.30	1.35
1	2	1631	A	N9-C4	-6.55	1.33	1.37
36	1	1400	G	N9-C8	-6.55	1.33	1.37
37	7	24	A	C6-N1	-6.55	1.30	1.35
36	1	345	G	N9-C8	-6.55	1.33	1.37
36	5	1290	A	C5-C6	-6.55	1.35	1.41
36	1	2412	G	C2-N3	-6.55	1.27	1.32
36	5	2743	A	C5-C4	-6.55	1.34	1.38
36	5	1350	A	N9-C4	6.54	1.41	1.37
36	5	2690	G	N9-C4	-6.54	1.32	1.38
36	5	3173	G	C6-N1	-6.54	1.34	1.39
38	8	133	G	N9-C4	-6.54	1.32	1.38
36	5	1212	A	C6-N6	-6.54	1.28	1.33
36	5	2117	A	N3-C4	-6.54	1.30	1.34
36	5	1370	G	C6-O6	-6.54	1.18	1.24
36	1	1159	A	N3-C4	-6.53	1.30	1.34
36	1	2145	A	C6-N6	-6.53	1.28	1.33
36	1	820	A	C6-N1	-6.53	1.30	1.35
36	5	1180	A	N3-C4	-6.53	1.30	1.34
36	5	3305	A	N3-C4	-6.53	1.30	1.34
36	1	1656	A	N9-C4	-6.53	1.33	1.37
36	1	659	G	C5-C4	-6.53	1.33	1.38
36	5	588	G	N7-C5	-6.53	1.35	1.39
36	5	1309	U	N1-C2	-6.53	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	1432	C	C4-C5	-6.53	1.37	1.43
36	1	935	U	C2-O2	-6.52	1.16	1.22
36	5	1150	A	N3-C4	-6.52	1.30	1.34
1	2	599	A	N9-C4	6.52	1.41	1.37
36	1	33	G	N3-C4	-6.52	1.30	1.35
36	1	2424	A	N3-C4	-6.52	1.30	1.34
1	6	601	A	C5-C4	-6.52	1.34	1.38
36	5	218	G	P-O5'	-6.52	1.53	1.59
36	5	1370	G	N1-C2	-6.52	1.32	1.37
36	1	1309	U	N1-C2	-6.51	1.32	1.38
36	5	2333	C	N1-C6	-6.51	1.33	1.37
36	1	860	G	C5-C6	-6.51	1.35	1.42
37	3	95	A	N3-C4	-6.51	1.30	1.34
36	5	937	G	N9-C8	-6.51	1.33	1.37
36	1	1195	A	N7-C5	-6.51	1.35	1.39
36	5	857	G	N7-C5	-6.51	1.35	1.39
36	5	1295	G	N1-C2	-6.51	1.32	1.37
36	1	2311	G	N7-C5	-6.51	1.35	1.39
36	5	408	A	C6-N1	-6.51	1.30	1.35
36	5	3206	C	N1-C6	-6.51	1.33	1.37
1	6	901	G	C6-N1	6.50	1.44	1.39
36	1	335	G	C2-N3	-6.50	1.27	1.32
36	5	425	G	N7-C5	-6.50	1.35	1.39
36	5	962	A	N7-C5	-6.50	1.35	1.39
36	5	2644	C	N1-C2	-6.50	1.33	1.40
36	5	3130	A	C5-C4	-6.50	1.34	1.38
1	2	757	A	N9-C4	6.50	1.41	1.37
36	1	780	A	N7-C5	-6.50	1.35	1.39
36	1	505	G	N3-C4	-6.50	1.30	1.35
36	1	1144	U	N1-C2	-6.50	1.32	1.38
36	1	2363	A	N9-C4	-6.50	1.33	1.37
36	1	358	G	C5-C6	-6.49	1.35	1.42
36	5	424	G	C5-C6	-6.49	1.35	1.42
1	2	1750	A	N3-C4	-6.49	1.30	1.34
36	5	3044	G	N7-C5	-6.49	1.35	1.39
37	7	14	U	C2-N3	-6.49	1.33	1.37
36	1	929	A	C5-C6	-6.49	1.35	1.41
36	5	1892	G	C6-N1	-6.49	1.35	1.39
36	5	2889	C	C2-N3	-6.49	1.30	1.35
36	5	2950	G	C5-C6	-6.49	1.35	1.42
36	1	1401	A	N7-C5	-6.48	1.35	1.39
36	5	1139	G	N3-C4	-6.48	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2396	G	N9-C4	-6.48	1.32	1.38
36	5	2371	G	N9-C8	-6.48	1.33	1.37
36	5	1408	G	C8-N7	-6.48	1.27	1.30
36	1	3045	G	N7-C5	-6.48	1.35	1.39
36	5	2913	C	N1-C6	-6.48	1.33	1.37
56	n0	34	GLU	CG-CD	6.48	1.61	1.51
1	6	39	A	N3-C4	-6.48	1.30	1.34
36	1	364	G	N9-C4	-6.47	1.32	1.38
36	1	2878	G	C6-N1	-6.47	1.35	1.39
36	5	2817	A	N3-C4	-6.47	1.30	1.34
36	1	109	A	N9-C4	-6.47	1.33	1.37
36	1	367	A	N9-C8	-6.47	1.32	1.37
36	5	2303	A	C5-C6	-6.47	1.35	1.41
36	1	585	A	N7-C5	-6.47	1.35	1.39
36	1	1306	G	N3-C4	-6.47	1.30	1.35
36	5	1060	U	C2-N3	-6.47	1.33	1.37
36	5	2877	G	N1-C2	-6.47	1.32	1.37
36	5	2863	G	N7-C5	-6.46	1.35	1.39
1	6	1002	G	N9-C4	-6.46	1.32	1.38
1	6	1535	U	N3-C4	-6.46	1.32	1.38
1	6	1765	A	N3-C4	-6.46	1.30	1.34
36	5	1303	A	N9-C4	-6.46	1.33	1.37
36	1	25	U	C2-N3	6.46	1.42	1.37
36	1	1440	G	N1-C2	-6.46	1.32	1.37
36	1	2801	A	C5-C6	-6.46	1.35	1.41
36	5	406	G	N3-C4	-6.46	1.30	1.35
36	5	1886	A	C6-N1	-6.45	1.31	1.35
36	5	500	C	N1-C6	-6.45	1.33	1.37
36	5	3140	G	N1-C2	-6.45	1.32	1.37
36	1	2834	G	N9-C8	-6.45	1.33	1.37
36	5	2119	A	N7-C5	-6.45	1.35	1.39
1	6	992	A	C5-C6	-6.45	1.35	1.41
36	5	2375	G	N9-C4	-6.45	1.32	1.38
36	1	2620	G	C2-N3	-6.44	1.27	1.32
36	5	2980	U	C2-N3	-6.44	1.33	1.37
36	1	220	G	N7-C5	-6.44	1.35	1.39
36	1	1309	U	C2-O2	-6.44	1.16	1.22
36	1	1534	A	N3-C4	-6.44	1.30	1.34
36	5	2848	G	N3-C4	-6.44	1.30	1.35
36	5	235	A	N9-C4	-6.44	1.33	1.37
36	5	283	G	N1-C2	-6.44	1.32	1.37
36	5	3118	C	N3-C4	-6.44	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	971	G	N9-C8	-6.44	1.33	1.37
57	n1	63	VAL	CA-CB	-6.44	1.41	1.54
36	1	1460	A	C5-C4	-6.43	1.34	1.38
36	5	2755	C	N1-C6	-6.43	1.33	1.37
1	6	1651	A	C5-C6	-6.43	1.35	1.41
36	5	2307	G	N3-C4	-6.43	1.30	1.35
36	5	1188	U	N1-C6	-6.43	1.32	1.38
36	5	1913	A	C5-C6	-6.43	1.35	1.41
36	1	697	A	N3-C4	6.42	1.38	1.34
36	1	1135	A	N9-C4	-6.42	1.33	1.37
36	1	1398	U	N1-C2	-6.42	1.32	1.38
36	5	278	U	N3-C4	-6.42	1.32	1.38
36	5	942	U	C4-O4	6.42	1.28	1.23
36	1	1094	U	C2-N3	6.42	1.42	1.37
36	1	432	G	N3-C4	-6.42	1.30	1.35
36	1	2424	A	N9-C4	-6.42	1.33	1.37
1	6	151	G	N3-C4	-6.42	1.30	1.35
36	5	2875	U	C4-O4	6.42	1.28	1.23
36	5	3315	G	C6-N1	-6.42	1.35	1.39
36	5	52	A	N9-C4	-6.41	1.34	1.37
36	5	1314	C	N1-C6	-6.41	1.33	1.37
36	5	2326	A	N7-C5	-6.41	1.35	1.39
36	1	322	U	C2-N3	-6.41	1.33	1.37
1	6	1592	A	N3-C4	-6.41	1.31	1.34
1	2	6	G	N9-C4	6.41	1.43	1.38
36	1	916	G	N9-C4	-6.41	1.32	1.38
1	2	1751	C	N3-C4	-6.41	1.29	1.33
36	1	2641	U	C4-O4	-6.41	1.18	1.23
36	1	2971	A	C6-N1	6.41	1.40	1.35
36	5	2748	A	C6-N1	-6.41	1.31	1.35
36	5	1929	G	N9-C4	-6.40	1.32	1.38
36	5	2116	G	N7-C5	-6.40	1.35	1.39
36	5	2634	U	C4-O4	-6.40	1.18	1.23
37	7	42	A	N7-C5	-6.40	1.35	1.39
1	6	410	A	N7-C5	-6.40	1.35	1.39
36	5	2849	C	N1-C2	-6.40	1.33	1.40
36	5	2890	A	N3-C4	-6.40	1.31	1.34
36	1	1867	A	N3-C4	-6.39	1.31	1.34
36	5	428	A	N7-C5	-6.39	1.35	1.39
36	5	929	A	C5-C4	-6.39	1.34	1.38
36	5	1127	G	N7-C5	-6.39	1.35	1.39
36	5	1897	G	C5-C6	-6.39	1.35	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	572	A	N3-C4	-6.39	1.31	1.34
36	5	2872	A	N3-C4	6.39	1.38	1.34
36	5	2983	C	C4-C5	-6.39	1.37	1.43
37	7	99	G	C5-C4	-6.39	1.33	1.38
1	6	349	U	C2-N3	-6.39	1.33	1.37
36	5	2926	A	N3-C4	-6.39	1.31	1.34
1	6	1653	C	N1-C6	-6.39	1.33	1.37
1	6	1750	A	N3-C4	-6.39	1.31	1.34
36	5	2172	A	C5-C6	-6.38	1.35	1.41
36	5	2416	U	C2-O2	-6.38	1.16	1.22
36	1	3260	G	N3-C4	-6.38	1.30	1.35
36	5	1834	U	C4-O4	6.38	1.28	1.23
36	5	3094	A	C6-N1	-6.38	1.31	1.35
36	1	2899	C	N3-C4	-6.38	1.29	1.33
1	2	1208	A	N3-C4	-6.38	1.31	1.34
38	4	104	A	N3-C4	-6.38	1.31	1.34
36	1	2651	G	N9-C8	-6.37	1.33	1.37
36	5	1205	A	C6-N6	-6.37	1.28	1.33
36	1	3011	A	C6-N1	-6.37	1.31	1.35
36	5	2919	A	N9-C4	-6.37	1.34	1.37
36	1	2756	C	N3-C4	-6.37	1.29	1.33
36	5	1129	A	N7-C5	-6.37	1.35	1.39
36	5	1174	G	N7-C5	-6.37	1.35	1.39
47	m0	11	TYR	CE2-CZ	6.37	1.46	1.38
36	1	1402	C	N3-C4	-6.37	1.29	1.33
1	6	46	A	C6-N1	-6.37	1.31	1.35
36	5	1795	U	C2-N3	-6.37	1.33	1.37
36	5	2969	A	N9-C4	-6.37	1.34	1.37
36	1	2326	A	C6-N1	-6.36	1.31	1.35
36	1	2910	A	C6-N1	-6.36	1.31	1.35
36	5	1286	A	N9-C4	-6.36	1.34	1.37
36	5	2830	G	C6-N1	-6.36	1.35	1.39
36	1	1169	A	N3-C4	-6.36	1.31	1.34
36	1	1357	G	N7-C5	-6.36	1.35	1.39
36	5	365	A	C5-C6	-6.36	1.35	1.41
36	5	3096	C	N1-C6	-6.36	1.33	1.37
36	1	1333	C	C4-N4	-6.36	1.28	1.33
36	1	1340	G	C6-O6	-6.36	1.18	1.24
36	1	1905	G	N9-C4	-6.36	1.32	1.38
36	1	2386	A	C5-C4	-6.36	1.34	1.38
36	1	2830	G	N9-C4	-6.36	1.32	1.38
36	5	2969	A	N7-C5	-6.36	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1321	G	C5-C4	-6.35	1.33	1.38
38	4	53	A	N3-C4	-6.35	1.31	1.34
36	5	577	C	N3-C4	-6.35	1.29	1.33
36	1	100	A	N3-C4	-6.35	1.31	1.34
36	5	1212	A	C5-C6	-6.35	1.35	1.41
36	5	2108	C	N1-C6	-6.35	1.33	1.37
36	5	2385	G	N3-C4	-6.35	1.31	1.35
1	2	47	A	N7-C5	-6.35	1.35	1.39
36	1	2145	A	C5-C6	-6.35	1.35	1.41
36	5	1198	C	N3-C4	-6.35	1.29	1.33
36	5	2407	C	C4-C5	-6.35	1.37	1.43
36	5	520	U	N1-C2	6.35	1.44	1.38
36	5	1189	C	N1-C6	-6.35	1.33	1.37
36	1	1311	G	N9-C8	-6.34	1.33	1.37
1	6	1765	A	C6-N1	-6.34	1.31	1.35
36	5	3094	A	N3-C4	-6.34	1.31	1.34
36	1	189	G	C5-C4	-6.34	1.33	1.38
36	1	2289	U	N1-C6	-6.34	1.32	1.38
37	3	65	G	N9-C4	-6.34	1.32	1.38
36	5	932	U	C4-O4	-6.34	1.18	1.23
36	5	1133	A	N7-C5	-6.34	1.35	1.39
36	5	3190	C	N1-C6	-6.34	1.33	1.37
36	5	423	A	N7-C5	-6.34	1.35	1.39
36	5	1922	A	N9-C4	-6.34	1.34	1.37
36	1	157	A	N3-C4	-6.34	1.31	1.34
36	1	914	A	N9-C4	6.34	1.41	1.37
36	1	2404	A	C2-N3	6.34	1.39	1.33
36	5	960	U	C2-O2	6.34	1.28	1.22
36	5	2816	G	C2-N3	-6.34	1.27	1.32
36	5	3122	A	N7-C5	-6.33	1.35	1.39
36	5	3207	U	C5-C6	6.33	1.39	1.34
36	1	32	U	C5-C6	-6.33	1.28	1.34
36	1	1444	G	N7-C5	-6.33	1.35	1.39
1	6	102	U	N1-C2	-6.33	1.32	1.38
36	5	1196	C	C4-C5	6.33	1.48	1.43
36	5	3209	A	N9-C4	6.33	1.41	1.37
36	5	1138	U	N1-C6	-6.33	1.32	1.38
36	5	2370	G	C6-N1	-6.33	1.35	1.39
36	1	3273	A	C6-N1	-6.33	1.31	1.35
36	1	1906	G	C5-C4	-6.33	1.33	1.38
36	1	1371	G	N9-C8	-6.33	1.33	1.37
36	1	3087	A	N3-C4	-6.33	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	425	G	N9-C8	-6.33	1.33	1.37
36	5	1317	A	C5-C4	-6.33	1.34	1.38
36	5	2806	U	C2-N3	-6.33	1.33	1.37
36	5	1592	G	C5-C6	6.32	1.48	1.42
36	5	2746	A	N9-C4	-6.32	1.34	1.37
38	8	44	A	C5-C6	-6.32	1.35	1.41
36	1	373	A	C6-N1	-6.32	1.31	1.35
40	L3	27	ALA	CA-CB	-6.32	1.39	1.52
1	6	407	A	N3-C4	-6.32	1.31	1.34
36	5	2976	A	N7-C5	-6.32	1.35	1.39
1	2	1654	G	C6-N1	-6.32	1.35	1.39
36	1	942	U	N1-C6	-6.32	1.32	1.38
36	5	2300	G	C6-N1	-6.32	1.35	1.39
1	2	1004	U	N3-C4	-6.32	1.32	1.38
36	1	2117	A	N7-C5	-6.32	1.35	1.39
36	1	2932	U	C2-N3	-6.32	1.33	1.37
1	6	358	U	C2-N3	-6.32	1.33	1.37
36	5	2967	A	C6-N1	-6.32	1.31	1.35
36	1	517	G	N3-C4	-6.32	1.31	1.35
36	1	3033	A	N9-C4	6.32	1.41	1.37
36	1	3141	A	C5-C6	-6.32	1.35	1.41
36	1	3217	C	N1-C6	-6.32	1.33	1.37
36	5	1192	C	N1-C2	6.32	1.46	1.40
69	o3	33	GLU	CG-CD	6.32	1.61	1.51
36	5	2111	G	N9-C4	-6.31	1.32	1.38
36	5	2288	G	N1-C2	-6.31	1.32	1.37
36	5	2871	G	N9-C8	6.31	1.42	1.37
36	1	409	A	N7-C5	-6.31	1.35	1.39
36	5	1929	G	N3-C4	-6.31	1.31	1.35
36	1	1906	G	N7-C5	-6.31	1.35	1.39
37	3	98	C	N3-C4	-6.31	1.29	1.33
36	5	921	A	N7-C5	-6.31	1.35	1.39
36	1	45	A	N3-C4	-6.31	1.31	1.34
36	1	955	U	N1-C2	-6.31	1.32	1.38
36	5	1103	A	N9-C8	6.31	1.42	1.37
42	l5	136	GLU	CG-CD	6.31	1.61	1.51
36	5	3276	G	C6-N1	6.30	1.44	1.39
52	m6	40	GLU	CG-CD	6.30	1.61	1.51
36	1	2861	U	C2-N3	-6.30	1.33	1.37
36	1	3273	A	N9-C4	-6.30	1.34	1.37
36	5	3181	C	N1-C6	-6.30	1.33	1.37
1	6	597	G	N7-C5	-6.30	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	1073	U	C2-N3	-6.30	1.33	1.37
36	5	1120	A	N9-C4	-6.30	1.34	1.37
36	5	2900	A	C5-C6	-6.30	1.35	1.41
1	6	1411	A	N9-C4	-6.30	1.34	1.37
36	1	752	C	N3-C4	-6.30	1.29	1.33
36	1	1886	A	C6-N1	-6.29	1.31	1.35
36	1	2236	G	N7-C5	-6.29	1.35	1.39
38	4	52	A	N3-C4	-6.29	1.31	1.34
36	5	705	A	N3-C4	-6.29	1.31	1.34
1	6	3	U	C2-N3	-6.29	1.33	1.37
1	6	1631	A	C5-C6	-6.29	1.35	1.41
36	5	2862	U	C2-N3	-6.29	1.33	1.37
36	5	1145	G	N7-C5	-6.29	1.35	1.39
36	5	3020	U	C4-C5	-6.29	1.37	1.43
36	5	1180	A	C5-C4	-6.29	1.34	1.38
36	5	2815	G	N9-C8	-6.29	1.33	1.37
36	1	422	A	N9-C4	-6.29	1.34	1.37
36	5	994	G	N1-C2	-6.29	1.32	1.37
36	5	1142	G	C5-C6	-6.29	1.36	1.42
36	1	826	G	C5-C6	-6.29	1.36	1.42
36	1	2325	G	C5-C6	-6.29	1.36	1.42
36	1	2834	G	C6-N1	-6.29	1.35	1.39
36	5	433	A	N7-C5	-6.29	1.35	1.39
36	1	440	A	N9-C4	6.28	1.41	1.37
40	L3	7	GLU	CG-CD	6.28	1.61	1.51
36	5	3083	G	C5-C6	-6.28	1.36	1.42
36	5	3129	A	C6-N1	-6.28	1.31	1.35
36	5	506	U	N1-C2	-6.28	1.32	1.38
36	5	2648	G	N9-C4	-6.28	1.32	1.38
38	8	41	A	N3-C4	-6.28	1.31	1.34
36	1	391	A	N3-C4	-6.28	1.31	1.34
36	1	1176	C	N3-C4	-6.28	1.29	1.33
36	5	278	U	C2-N3	-6.28	1.33	1.37
36	1	612	U	N1-C6	-6.27	1.32	1.38
36	5	1430	U	N1-C2	-6.27	1.32	1.38
76	q0	110	CYS	CB-SG	-6.27	1.71	1.82
36	1	1126	G	N7-C5	-6.27	1.35	1.39
36	1	1534	A	C5-C6	-6.27	1.35	1.41
36	1	2801	A	C5-C4	-6.27	1.34	1.38
36	1	3274	A	N7-C5	-6.27	1.35	1.39
36	5	1150	A	C5-C4	-6.27	1.34	1.38
36	5	2816	G	C5-C6	-6.27	1.36	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2946	A	C6-N1	-6.27	1.31	1.35
36	1	1465	A	N9-C4	-6.27	1.34	1.37
36	5	589	A	N3-C4	-6.27	1.31	1.34
36	5	2836	C	N3-C4	-6.27	1.29	1.33
36	5	2385	G	N9-C8	-6.26	1.33	1.37
36	5	2956	A	N3-C4	-6.26	1.31	1.34
36	1	2649	A	N7-C5	-6.26	1.35	1.39
36	5	2365	C	N1-C6	-6.26	1.33	1.37
36	1	1403	C	P-O5'	-6.26	1.53	1.59
37	3	63	A	N9-C4	-6.26	1.34	1.37
36	5	2346	C	N1-C2	-6.26	1.33	1.40
36	5	519	A	N7-C5	-6.26	1.35	1.39
36	1	2376	G	N3-C4	-6.26	1.31	1.35
1	6	1762	A	N9-C4	-6.26	1.34	1.37
36	1	2917	G	C6-N1	-6.25	1.35	1.39
36	1	1153	A	N9-C4	-6.25	1.34	1.37
36	1	2193	U	N1-C2	-6.25	1.32	1.38
36	1	2942	C	N3-C4	6.25	1.38	1.33
36	1	1117	G	C5-C4	-6.25	1.33	1.38
36	5	2698	G	C5-C4	-6.25	1.33	1.38
36	1	1131	G	N7-C5	-6.25	1.35	1.39
36	1	1454	A	N9-C4	-6.25	1.34	1.37
36	5	2913	C	N3-C4	-6.25	1.29	1.33
36	1	357	A	C6-N1	-6.24	1.31	1.35
36	1	2614	G	C6-N1	-6.24	1.35	1.39
36	5	1151	U	C4-O4	6.24	1.28	1.23
36	5	2618	G	C6-N1	-6.24	1.35	1.39
1	6	316	A	N9-C4	-6.24	1.34	1.37
36	5	1295	G	N3-C4	-6.24	1.31	1.35
36	5	1889	G	C5-C6	-6.24	1.36	1.42
36	5	3010	U	N3-C4	-6.24	1.32	1.38
1	2	1782	A	N7-C5	-6.24	1.35	1.39
1	6	1648	A	N9-C4	-6.24	1.34	1.37
36	5	1048	A	C6-N1	-6.24	1.31	1.35
37	7	39	C	N1-C6	-6.24	1.33	1.37
36	1	318	A	N9-C4	-6.24	1.34	1.37
36	5	1303	A	C6-N6	-6.24	1.28	1.33
36	1	206	G	N1-C2	-6.23	1.32	1.37
36	5	1179	A	C6-N1	-6.23	1.31	1.35
36	5	1205	A	C5-C6	-6.23	1.35	1.41
36	5	2647	A	N9-C4	-6.23	1.34	1.37
36	1	2656	A	C6-N1	-6.23	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	102	U	C2-N3	-6.23	1.33	1.37
36	5	2400	G	C5-C6	-6.23	1.36	1.42
36	5	1145	G	C8-N7	-6.23	1.27	1.30
36	5	2983	C	N1-C6	-6.23	1.33	1.37
37	3	92	A	N9-C4	-6.23	1.34	1.37
36	1	351	A	N9-C4	-6.22	1.34	1.37
1	6	1642	G	N1-C2	-6.22	1.32	1.37
36	5	890	C	N1-C6	-6.22	1.33	1.37
36	5	1186	G	C6-N1	-6.22	1.35	1.39
36	1	89	A	C6-N1	-6.22	1.31	1.35
37	3	102	A	N9-C4	-6.22	1.34	1.37
1	6	630	A	N7-C5	-6.22	1.35	1.39
36	5	645	A	N7-C5	-6.22	1.35	1.39
36	5	1060	U	N3-C4	-6.22	1.32	1.38
36	5	3189	G	C5-C4	-6.22	1.33	1.38
37	7	84	A	N9-C4	-6.22	1.34	1.37
36	5	650	C	N3-C4	-6.22	1.29	1.33
36	5	3203	U	N3-C4	-6.22	1.32	1.38
36	1	1169	A	C6-N1	-6.21	1.31	1.35
36	5	1098	A	N9-C4	-6.21	1.34	1.37
36	5	2977	G	C5-C4	-6.21	1.33	1.38
36	1	955	U	C2-N3	-6.21	1.33	1.37
1	6	630	A	C5-C6	-6.21	1.35	1.41
36	5	2893	C	C4-C5	-6.21	1.38	1.43
36	1	1176	C	N1-C6	-6.21	1.33	1.37
36	1	85	A	C5-C6	-6.21	1.35	1.41
36	5	3020	U	C4-O4	-6.21	1.18	1.23
1	2	1124	A	N9-C4	-6.21	1.34	1.37
36	1	294	U	C2-N3	-6.21	1.33	1.37
36	1	3102	G	C6-N1	-6.21	1.35	1.39
1	6	1777	G	C6-N1	-6.21	1.35	1.39
36	5	973	A	C5-C6	-6.21	1.35	1.41
36	5	1477	A	N3-C4	-6.21	1.31	1.34
36	1	880	G	C5-C4	-6.21	1.34	1.38
36	5	1140	G	N7-C5	-6.21	1.35	1.39
36	5	2925	C	N1-C2	-6.21	1.33	1.40
36	5	2932	U	N3-C4	-6.21	1.32	1.38
36	5	2895	G	C6-N1	-6.21	1.35	1.39
36	1	343	U	C4-C5	-6.20	1.38	1.43
36	5	189	G	C5-C4	-6.20	1.34	1.38
36	5	3088	G	N3-C4	-6.20	1.31	1.35
36	5	1199	C	N1-C6	-6.20	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	383	G	N9-C8	-6.20	1.33	1.37
36	1	2382	G	C6-N1	-6.20	1.35	1.39
36	1	101	G	C5-C6	-6.20	1.36	1.42
36	1	3147	G	C5-C4	-6.20	1.34	1.38
36	5	1300	G	N7-C5	-6.19	1.35	1.39
36	5	1099	A	C5-C4	-6.19	1.34	1.38
36	5	1316	C	N1-C6	-6.19	1.33	1.37
36	5	2632	G	P-O5'	-6.19	1.53	1.59
1	6	1124	A	C5-C6	-6.19	1.35	1.41
1	6	1596	C	N1-C6	-6.19	1.33	1.37
36	5	2199	G	N7-C5	-6.19	1.35	1.39
36	1	648	C	N1-C6	-6.19	1.33	1.37
1	6	1614	A	N9-C4	-6.19	1.34	1.37
36	1	1170	A	C5-C6	-6.18	1.35	1.41
36	5	1884	A	N7-C5	-6.18	1.35	1.39
36	5	2903	A	N9-C4	-6.18	1.34	1.37
36	5	425	G	C5-C4	-6.18	1.34	1.38
36	5	512	U	N3-C4	-6.18	1.32	1.38
36	5	2117	A	N7-C5	-6.18	1.35	1.39
36	5	2395	G	N3-C4	-6.18	1.31	1.35
36	5	2881	C	N3-C4	-6.18	1.29	1.33
36	1	35	A	N3-C4	-6.18	1.31	1.34
36	1	629	U	C2-N3	-6.18	1.33	1.37
1	2	1454	G	C5-C4	-6.18	1.34	1.38
36	1	3121	U	C2-N3	-6.18	1.33	1.37
36	5	64	G	N7-C5	-6.18	1.35	1.39
36	1	41	G	C5-C4	-6.17	1.34	1.38
36	5	1295	G	C5-C4	-6.17	1.34	1.38
36	5	2698	G	N9-C8	-6.17	1.33	1.37
36	5	2892	A	C6-N1	-6.17	1.31	1.35
36	5	591	G	N9-C8	-6.17	1.33	1.37
36	1	2952	G	N3-C4	-6.17	1.31	1.35
1	6	1592	A	C6-N1	-6.17	1.31	1.35
36	5	2294	U	C2-N3	-6.17	1.33	1.37
36	1	3319	U	N1-C2	6.17	1.44	1.38
36	5	800	G	C5-C4	-6.17	1.34	1.38
25	D3	60	GLU	CG-CD	6.17	1.61	1.51
36	1	2350	C	N1-C6	-6.17	1.33	1.37
36	5	1307	G	C5-C6	-6.17	1.36	1.42
1	2	1148	C	N3-C4	-6.17	1.29	1.33
36	5	2768	U	C2-N3	-6.17	1.33	1.37
36	1	793	C	N1-C6	-6.17	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2753	G	N9-C8	-6.17	1.33	1.37
36	5	2913	C	C4-C5	-6.17	1.38	1.43
36	1	751	A	C6-N1	-6.16	1.31	1.35
36	1	1846	C	N1-C2	-6.16	1.33	1.40
36	5	642	U	N1-C2	-6.16	1.33	1.38
36	1	146	U	N1-C2	6.16	1.44	1.38
36	1	2834	G	N7-C5	-6.16	1.35	1.39
36	1	218	G	N3-C4	-6.16	1.31	1.35
36	5	962	A	N9-C4	-6.16	1.34	1.37
36	5	3362	A	N3-C4	-6.16	1.31	1.34
36	1	649	A	N3-C4	-6.16	1.31	1.34
36	1	1910	A	C5-C4	-6.16	1.34	1.38
36	1	2823	G	N3-C4	-6.16	1.31	1.35
36	5	2247	G	C5-C4	-6.15	1.34	1.38
36	5	2920	U	C4-O4	-6.15	1.18	1.23
37	7	112	G	C6-N1	-6.15	1.35	1.39
69	o3	81	VAL	CB-CG1	-6.15	1.40	1.52
36	1	1350	A	N9-C4	6.15	1.41	1.37
36	1	1534	A	N7-C5	-6.15	1.35	1.39
36	1	2733	A	N3-C4	-6.15	1.31	1.34
36	5	3016	A	N7-C5	-6.15	1.35	1.39
36	5	3146	G	C5-C6	-6.15	1.36	1.42
36	5	3210	A	C6-N1	-6.15	1.31	1.35
36	1	338	A	N9-C8	-6.15	1.32	1.37
36	5	2381	G	N7-C5	-6.15	1.35	1.39
36	5	3336	A	N9-C4	-6.15	1.34	1.37
36	1	409	A	C5-C4	-6.15	1.34	1.38
36	5	2188	A	N9-C8	-6.15	1.32	1.37
1	6	1660	A	N9-C4	-6.15	1.34	1.37
36	5	1372	C	N1-C6	-6.15	1.33	1.37
36	1	2399	A	C5-C4	-6.14	1.34	1.38
36	1	2833	A	C6-N1	-6.14	1.31	1.35
1	6	794	U	N1-C2	6.14	1.44	1.38
36	1	907	G	C6-O6	-6.14	1.18	1.24
36	1	1910	A	N3-C4	-6.14	1.31	1.34
1	6	1584	G	N7-C5	-6.14	1.35	1.39
36	1	2693	C	N1-C6	-6.14	1.33	1.37
36	1	3244	A	C6-N1	-6.14	1.31	1.35
36	5	3128	G	N3-C4	-6.14	1.31	1.35
37	7	13	A	C5-C6	-6.14	1.35	1.41
36	5	945	C	N1-C6	-6.14	1.33	1.37
36	5	3138	U	N1-C2	-6.14	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	1517	U	C2-N3	-6.13	1.33	1.37
36	5	2977	G	N7-C5	-6.13	1.35	1.39
36	1	2314	U	C2-N3	6.13	1.42	1.37
36	1	2358	A	N3-C4	-6.13	1.31	1.34
36	5	2918	G	C6-O6	-6.13	1.18	1.24
36	5	1152	G	C5-C6	-6.13	1.36	1.42
36	1	1061	A	N9-C4	-6.13	1.34	1.37
36	1	2335	G	C6-N1	-6.13	1.35	1.39
38	4	12	A	N7-C5	-6.13	1.35	1.39
36	5	1085	A	N3-C4	-6.13	1.31	1.34
36	5	3172	A	N3-C4	-6.13	1.31	1.34
36	1	1129	A	N7-C5	-6.12	1.35	1.39
36	5	289	A	C5-C6	-6.12	1.35	1.41
36	5	2815	G	N7-C5	-6.12	1.35	1.39
36	5	3245	A	N7-C5	-6.12	1.35	1.39
36	5	1142	G	C6-N1	-6.12	1.35	1.39
36	5	3098	G	C6-N1	-6.12	1.35	1.39
36	5	3114	A	C5-C6	-6.12	1.35	1.41
36	1	612	U	N3-C4	-6.12	1.32	1.38
36	1	2733	A	N9-C4	-6.12	1.34	1.37
36	1	2831	G	N7-C5	-6.12	1.35	1.39
36	5	706	A	N3-C4	-6.12	1.31	1.34
36	5	710	A	N7-C5	-6.12	1.35	1.39
36	1	1904	C	N1-C6	-6.12	1.33	1.37
36	1	2309	A	N3-C4	-6.12	1.31	1.34
1	6	1778	G	N1-C2	-6.12	1.32	1.37
36	5	2996	U	C4-O4	6.12	1.28	1.23
1	2	1212	G	N7-C5	-6.12	1.35	1.39
1	6	397	A	N9-C4	-6.12	1.34	1.37
1	6	1166	A	N9-C4	-6.12	1.34	1.37
36	5	1330	A	C5-C6	-6.12	1.35	1.41
36	5	1845	G	N7-C5	-6.12	1.35	1.39
36	5	1043	C	N1-C6	-6.11	1.33	1.37
36	5	2705	A	C5-C4	-6.11	1.34	1.38
36	5	3095	U	N1-C6	-6.11	1.32	1.38
36	1	2623	G	C2-N3	-6.11	1.27	1.32
1	6	1768	G	N3-C4	-6.11	1.31	1.35
36	5	505	G	N3-C4	-6.11	1.31	1.35
36	5	2373	A	N3-C4	-6.11	1.31	1.34
43	16	175	LYS	CD-CE	6.11	1.66	1.51
52	M6	40	GLU	CD-OE2	6.11	1.32	1.25
36	1	1374	G	N7-C5	-6.11	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3130	A	N9-C4	-6.11	1.34	1.37
36	5	807	A	N9-C4	-6.11	1.34	1.37
36	5	1887	A	C5-C4	-6.11	1.34	1.38
36	1	2374	C	C5-C6	-6.11	1.29	1.34
36	5	1428	A	C6-N1	-6.11	1.31	1.35
68	O2	8	LYS	CD-CE	6.10	1.66	1.51
36	5	1114	U	N1-C2	-6.10	1.33	1.38
36	5	2400	G	C5-C4	-6.10	1.34	1.38
36	1	1907	C	N3-C4	-6.10	1.29	1.33
36	5	1195	A	N7-C5	-6.10	1.35	1.39
36	5	2954	U	N3-C4	6.10	1.44	1.38
36	1	2724	U	N1-C2	-6.10	1.33	1.38
1	6	1762	A	C5-C4	-6.10	1.34	1.38
36	5	1374	G	N3-C4	-6.10	1.31	1.35
36	5	2316	G	N3-C4	-6.10	1.31	1.35
36	1	1381	A	N3-C4	-6.10	1.31	1.34
36	1	1425	U	C2-N3	-6.10	1.33	1.37
38	4	54	A	N3-C4	-6.10	1.31	1.34
36	5	1149	G	N3-C4	-6.10	1.31	1.35
36	5	1406	A	N9-C8	-6.10	1.32	1.37
36	5	2698	G	N9-C4	-6.10	1.33	1.38
36	1	911	C	C2-N3	-6.10	1.30	1.35
1	6	1124	A	N9-C4	-6.10	1.34	1.37
36	1	2917	G	N9-C8	-6.09	1.33	1.37
36	5	51	A	C5-C6	-6.09	1.35	1.41
36	5	1910	A	N7-C5	-6.09	1.35	1.39
1	6	1780	G	N9-C8	-6.09	1.33	1.37
36	5	1065	A	N9-C4	-6.09	1.34	1.37
36	5	3010	U	C2-N3	-6.09	1.33	1.37
36	1	1192	C	N1-C2	6.09	1.46	1.40
36	1	2963	C	N3-C4	-6.09	1.29	1.33
36	5	2943	G	N3-C4	-6.09	1.31	1.35
36	1	1399	A	N9-C4	-6.09	1.34	1.37
36	5	960	U	C2-N3	6.09	1.42	1.37
36	5	1174	G	N3-C4	-6.09	1.31	1.35
36	1	2971	A	C5-C4	6.09	1.43	1.38
36	5	82	C	N1-C6	-6.09	1.33	1.37
37	7	49	G	C6-N1	6.09	1.43	1.39
38	8	45	C	N1-C6	-6.09	1.33	1.37
36	5	630	A	N9-C4	-6.08	1.34	1.37
36	5	2683	U	C4-C5	-6.08	1.38	1.43
36	1	642	U	C4-O4	6.08	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2960	C	N1-C6	-6.08	1.33	1.37
36	5	2932	U	C4-O4	-6.08	1.18	1.23
36	1	980	A	C5-C4	6.08	1.43	1.38
36	1	1851	G	C2-N3	-6.08	1.27	1.32
36	1	1888	U	C2-N3	-6.08	1.33	1.37
1	6	107	C	N1-C6	-6.08	1.33	1.37
36	5	633	C	N3-C4	-6.08	1.29	1.33
36	5	1370	G	C5-C4	-6.08	1.34	1.38
36	5	2305	G	N3-C4	-6.08	1.31	1.35
36	1	1406	A	N3-C4	-6.08	1.31	1.34
36	1	2908	G	N7-C5	-6.08	1.35	1.39
36	5	1062	A	N9-C4	-6.08	1.34	1.37
36	5	3184	A	C5-C6	-6.08	1.35	1.41
1	6	1635	A	N9-C4	-6.08	1.34	1.37
1	6	1411	A	N3-C4	-6.08	1.31	1.34
1	6	1655	A	N3-C4	-6.08	1.31	1.34
36	5	1364	C	N3-C4	-6.08	1.29	1.33
36	1	433	A	N3-C4	-6.07	1.31	1.34
36	1	2981	U	N3-C4	-6.07	1.32	1.38
69	O3	3	GLU	CG-CD	6.07	1.61	1.51
36	5	1196	C	N1-C2	6.07	1.46	1.40
44	17	59	GLU	CG-CD	6.07	1.61	1.51
36	5	2819	A	C5-C4	-6.07	1.34	1.38
1	6	410	A	N3-C4	-6.07	1.31	1.34
36	5	893	C	N1-C6	-6.07	1.33	1.37
36	5	2392	C	N3-C4	-6.07	1.29	1.33
36	1	2910	A	N7-C5	-6.07	1.35	1.39
36	5	1909	A	N9-C4	-6.07	1.34	1.37
36	5	3306	U	N1-C6	-6.07	1.32	1.38
36	5	2367	A	N9-C4	-6.07	1.34	1.37
36	1	2270	A	C5-C6	-6.06	1.35	1.41
36	1	2323	G	C5-C4	-6.06	1.34	1.38
36	5	2841	G	C6-N1	-6.06	1.35	1.39
36	5	635	G	N9-C8	-6.06	1.33	1.37
36	5	1200	A	C5-C6	-6.06	1.35	1.41
36	5	3324	C	N1-C6	-6.06	1.33	1.37
1	6	1108	G	N3-C4	-6.06	1.31	1.35
36	5	630	A	N9-C8	-6.06	1.32	1.37
36	1	2333	C	C2-N3	-6.06	1.30	1.35
36	1	2364	G	C5-C4	-6.05	1.34	1.38
59	n3	120	LYS	CD-CE	6.05	1.66	1.51
36	1	2374	C	N1-C6	-6.05	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	410	A	C5-C6	-6.05	1.35	1.41
36	1	2378	C	N1-C6	-6.05	1.33	1.37
36	5	856	G	C6-N1	-6.05	1.35	1.39
36	5	2768	U	N3-C4	-6.05	1.33	1.38
36	5	799	G	N7-C5	-6.05	1.35	1.39
36	5	2851	A	N9-C4	-6.05	1.34	1.37
36	5	2891	U	C2-N3	-6.05	1.33	1.37
36	1	1909	A	N9-C4	-6.04	1.34	1.37
38	4	13	A	N7-C5	-6.04	1.35	1.39
36	5	2341	A	C6-N1	-6.04	1.31	1.35
36	5	2994	A	C5-C4	-6.04	1.34	1.38
36	5	367	A	C6-N1	-6.04	1.31	1.35
36	5	660	A	C6-N1	-6.04	1.31	1.35
36	5	2287	C	N1-C6	-6.04	1.33	1.37
36	1	200	C	N1-C6	-6.04	1.33	1.37
36	1	519	A	N9-C4	-6.04	1.34	1.37
36	1	1887	A	N9-C8	-6.04	1.32	1.37
36	1	1320	C	C2-N3	-6.04	1.30	1.35
36	1	907	G	C6-N1	-6.04	1.35	1.39
1	6	417	A	N9-C4	6.04	1.41	1.37
36	1	2825	C	N1-C6	-6.03	1.33	1.37
36	1	3172	A	N3-C4	-6.03	1.31	1.34
36	5	936	A	C6-N1	-6.03	1.31	1.35
36	1	368	G	N3-C4	-6.03	1.31	1.35
36	5	3125	U	C2-N3	-6.03	1.33	1.37
36	5	1188	U	N1-C2	-6.03	1.33	1.38
36	5	2642	A	C5-C6	-6.03	1.35	1.41
36	5	2868	U	N1-C2	-6.03	1.33	1.38
36	1	1459	C	N1-C6	-6.03	1.33	1.37
36	5	1379	G	C6-N1	-6.03	1.35	1.39
1	2	1127	G	N3-C4	-6.03	1.31	1.35
1	6	611	U	N1-C6	-6.03	1.32	1.38
36	5	869	G	C6-N1	-6.03	1.35	1.39
36	5	1342	C	C2-N3	-6.03	1.30	1.35
36	5	2168	A	N7-C5	-6.03	1.35	1.39
36	1	1061	A	C5-C4	-6.03	1.34	1.38
36	1	3180	A	N3-C4	-6.03	1.31	1.34
1	6	401	A	N9-C4	-6.03	1.34	1.37
36	5	535	G	N7-C5	-6.02	1.35	1.39
36	5	2660	G	N9-C4	-6.02	1.33	1.38
36	5	3026	G	N7-C5	-6.02	1.35	1.39
38	4	2	A	C6-N1	-6.02	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	29	C	N1-C6	-6.02	1.33	1.37
36	1	1429	G	C2-N2	-6.02	1.28	1.34
36	1	2916	U	N1-C2	6.02	1.44	1.38
36	5	996	A	N9-C4	-6.02	1.34	1.37
36	1	2374	C	C4-C5	-6.02	1.38	1.43
36	5	648	C	C4-N4	6.02	1.39	1.33
36	5	2391	G	C5-C4	-6.02	1.34	1.38
36	1	2875	U	C4-O4	6.01	1.28	1.23
36	1	2601	A	C5-C4	-6.01	1.34	1.38
36	5	2286	U	N3-C4	-6.01	1.33	1.38
37	7	84	A	N7-C5	-6.01	1.35	1.39
36	1	1386	A	C5-C6	6.01	1.46	1.41
36	5	2977	G	C5-C6	-6.01	1.36	1.42
68	o2	41	VAL	CA-CB	-6.01	1.42	1.54
36	1	865	U	N1-C2	-6.01	1.33	1.38
36	1	2382	G	N1-C2	-6.01	1.32	1.37
36	5	2705	A	C6-N1	-6.01	1.31	1.35
36	1	1401	A	C5-C4	-6.01	1.34	1.38
36	1	2838	A	N9-C4	-6.01	1.34	1.37
36	5	569	A	C5-C4	-6.01	1.34	1.38
36	1	2431	C	N1-C6	-6.00	1.33	1.37
36	5	206	G	N1-C2	-6.00	1.32	1.37
36	5	2702	A	N7-C5	-6.00	1.35	1.39
36	1	2966	G	N3-C4	-6.00	1.31	1.35
1	2	1655	A	C5-C4	-6.00	1.34	1.38
36	1	2986	U	N1-C6	-6.00	1.32	1.38
36	5	883	A	C5-C4	-6.00	1.34	1.38
36	1	27	C	N1-C6	-6.00	1.33	1.37
36	5	2965	U	C4-C5	-6.00	1.38	1.43
38	8	138	A	N3-C4	-6.00	1.31	1.34
1	6	1570	A	N9-C4	-6.00	1.34	1.37
36	5	396	A	C6-N1	-6.00	1.31	1.35
36	1	1120	A	C6-N1	-5.99	1.31	1.35
36	1	1695	U	C2-N3	-5.99	1.33	1.37
1	6	1671	A	N9-C4	-5.99	1.34	1.37
36	5	1172	G	N7-C5	-5.99	1.35	1.39
36	5	1302	A	N3-C4	-5.99	1.31	1.34
1	6	1025	A	N3-C4	-5.99	1.31	1.34
1	2	1762	A	N9-C4	-5.99	1.34	1.37
36	1	608	A	C5-C6	-5.99	1.35	1.41
36	5	2799	A	N7-C5	-5.99	1.35	1.39
36	1	2948	C	C4-C5	-5.99	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	3	83	U	C2-N3	-5.99	1.33	1.37
37	7	14	U	N1-C2	-5.99	1.33	1.38
36	1	838	G	N9-C4	-5.99	1.33	1.38
1	6	1470	C	N3-C4	-5.99	1.29	1.33
36	5	958	C	C5-C6	-5.99	1.29	1.34
36	5	2130	G	C5-C4	-5.99	1.34	1.38
36	5	3374	U	C2-N3	-5.98	1.33	1.37
1	2	405	C	N1-C6	-5.98	1.33	1.37
36	1	1310	G	N7-C5	-5.98	1.35	1.39
1	6	1524	A	N7-C5	-5.98	1.35	1.39
36	5	3032	A	C6-N1	-5.98	1.31	1.35
36	1	787	G	N7-C5	-5.98	1.35	1.39
36	5	3336	A	N3-C4	-5.98	1.31	1.34
36	1	784	A	N9-C4	-5.98	1.34	1.37
36	1	1424	C	N1-C6	-5.98	1.33	1.37
36	1	2939	G	C6-N1	-5.98	1.35	1.39
36	1	2346	C	N1-C6	-5.98	1.33	1.37
36	5	1177	G	N9-C8	-5.98	1.33	1.37
36	5	1146	C	N1-C6	-5.98	1.33	1.37
36	5	2637	A	C6-N6	-5.98	1.29	1.33
36	1	2386	A	N7-C5	-5.97	1.35	1.39
1	6	1137	A	N9-C8	-5.97	1.32	1.37
36	5	519	A	C6-N1	-5.97	1.31	1.35
36	5	1490	A	N3-C4	-5.97	1.31	1.34
36	1	2935	U	N1-C2	-5.97	1.33	1.38
36	5	2314	U	N1-C2	5.97	1.44	1.38
36	5	2386	A	C5-C4	-5.97	1.34	1.38
36	5	2662	G	C6-N1	-5.97	1.35	1.39
36	5	2956	A	N7-C5	-5.97	1.35	1.39
36	1	95	A	N3-C4	-5.97	1.31	1.34
36	1	2371	G	N9-C8	-5.97	1.33	1.37
36	1	3059	G	N7-C5	5.97	1.42	1.39
36	1	2811	A	C5-C4	-5.97	1.34	1.38
36	5	1153	A	N7-C5	-5.97	1.35	1.39
36	5	2884	C	C2-N3	-5.97	1.30	1.35
36	1	2274	U	C2-N3	-5.96	1.33	1.37
36	1	2605	G	C5-C6	-5.96	1.36	1.42
1	6	1655	A	C5-C6	-5.96	1.35	1.41
36	1	1192	C	C2-N3	5.96	1.40	1.35
1	6	1467	C	N3-C4	-5.96	1.29	1.33
36	5	1791	C	N1-C6	-5.96	1.33	1.37
36	1	2919	A	N3-C4	-5.96	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2975	U	C2-N3	-5.96	1.33	1.37
36	5	2270	A	N9-C4	-5.96	1.34	1.37
36	5	2671	A	N9-C4	-5.96	1.34	1.37
36	5	3146	G	N7-C5	-5.96	1.35	1.39
36	5	569	A	N9-C4	-5.96	1.34	1.37
1	2	353	A	C5-C6	-5.96	1.35	1.41
36	1	39	A	N9-C4	-5.96	1.34	1.37
36	1	3308	C	N3-C4	-5.96	1.29	1.33
36	5	3091	A	N9-C4	-5.96	1.34	1.37
37	7	33	U	C2-N3	-5.96	1.33	1.37
36	5	422	A	C5-C4	-5.96	1.34	1.38
36	5	2182	A	N9-C4	-5.96	1.34	1.37
36	1	511	G	N9-C4	-5.95	1.33	1.38
36	1	1171	G	N3-C4	-5.95	1.31	1.35
36	5	639	G	C6-N1	-5.95	1.35	1.39
36	5	1136	A	C6-N1	-5.95	1.31	1.35
36	5	2637	A	N7-C5	-5.95	1.35	1.39
36	1	435	C	N1-C6	-5.95	1.33	1.37
36	1	3295	A	C6-N1	-5.95	1.31	1.35
36	5	1406	A	N9-C4	-5.95	1.34	1.37
36	5	2701	U	C4-O4	-5.95	1.18	1.23
1	6	151	G	C2-N3	-5.95	1.27	1.32
36	1	1116	G	N1-C2	-5.95	1.32	1.37
1	6	1644	C	N3-C4	-5.95	1.29	1.33
36	5	585	A	N9-C8	-5.95	1.32	1.37
36	5	1607	U	C4-O4	5.95	1.28	1.23
36	5	3061	G	C5-C4	-5.95	1.34	1.38
36	1	397	A	C6-N1	-5.94	1.31	1.35
36	5	1143	A	N9-C4	-5.94	1.34	1.37
36	1	430	U	C2-N3	-5.94	1.33	1.37
36	1	2199	G	N1-C2	-5.94	1.32	1.37
36	1	2981	U	C2-O2	-5.94	1.17	1.22
36	5	2840	C	N3-C4	-5.94	1.29	1.33
36	1	879	U	N1-C2	-5.94	1.33	1.38
36	1	2296	A	C6-N1	-5.94	1.31	1.35
1	6	1375	A	N9-C4	-5.94	1.34	1.37
36	5	3130	A	N7-C5	-5.94	1.35	1.39
36	5	654	C	N3-C4	-5.94	1.29	1.33
38	4	10	A	C6-N1	-5.94	1.31	1.35
1	2	1096	C	N1-C2	5.93	1.46	1.40
36	1	1305	U	N1-C2	-5.93	1.33	1.38
36	5	43	A	C5-C6	-5.93	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	1113	A	C6-N1	-5.93	1.31	1.35
36	1	358	G	N7-C5	-5.93	1.35	1.39
36	1	2778	G	C6-N1	-5.93	1.35	1.39
36	5	860	G	C5-C6	-5.93	1.36	1.42
36	5	1103	A	N7-C5	5.93	1.42	1.39
36	1	1314	C	N1-C6	-5.93	1.33	1.37
36	5	637	C	C5-C6	-5.93	1.29	1.34
36	5	3298	C	N1-C6	-5.93	1.33	1.37
25	d3	71	CYS	CB-SG	-5.92	1.72	1.81
36	5	2701	U	C4-C5	-5.92	1.38	1.43
36	1	3054	U	C4-O4	5.92	1.28	1.23
36	5	1003	A	C5-C6	-5.92	1.35	1.41
36	1	2188	A	N3-C4	-5.92	1.31	1.34
36	5	2955	U	N1-C2	-5.92	1.33	1.38
36	5	2882	U	C2-N3	-5.92	1.33	1.37
36	5	2122	G	N9-C4	-5.92	1.33	1.38
36	5	2177	G	C6-N1	-5.92	1.35	1.39
36	5	2704	A	N7-C5	-5.92	1.35	1.39
36	1	1192	C	C2-O2	5.92	1.29	1.24
36	5	1429	G	N3-C4	-5.92	1.31	1.35
36	5	2307	G	N7-C5	-5.92	1.35	1.39
36	5	2316	G	C6-N1	-5.92	1.35	1.39
36	5	2678	A	N9-C4	-5.92	1.34	1.37
36	1	2324	A	C5-C6	-5.92	1.35	1.41
36	1	22	G	N3-C4	-5.91	1.31	1.35
36	1	1305	U	C2-O2	-5.91	1.17	1.22
36	1	1516	C	N3-C4	-5.91	1.29	1.33
36	5	1202	A	N9-C8	-5.91	1.33	1.37
36	5	2382	G	C5-C4	-5.91	1.34	1.38
36	5	2404	A	N7-C5	5.91	1.42	1.39
1	2	1744	A	N3-C4	-5.91	1.31	1.34
36	1	2425	G	C6-N1	-5.91	1.35	1.39
36	1	2607	G	N9-C8	-5.91	1.33	1.37
36	5	561	C	N1-C6	-5.91	1.33	1.37
36	5	3048	A	N7-C5	-5.91	1.35	1.39
58	N2	92	TRP	CB-CG	5.91	1.60	1.50
36	5	1185	C	N1-C6	-5.91	1.33	1.37
36	1	1583	A	N9-C4	-5.91	1.34	1.37
36	1	1906	G	C5-C6	-5.90	1.36	1.42
36	1	2920	U	C4-C5	-5.90	1.38	1.43
36	1	2149	A	N3-C4	-5.90	1.31	1.34
37	3	97	A	N9-C8	-5.90	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	646	A	C6-N1	-5.90	1.31	1.35
36	5	1174	G	N9-C8	-5.90	1.33	1.37
36	1	1163	A	N9-C4	-5.90	1.34	1.37
36	5	2116	G	N3-C4	-5.90	1.31	1.35
36	5	3242	G	N9-C4	5.90	1.42	1.38
36	5	1160	C	N1-C6	-5.90	1.33	1.37
36	5	1477	A	C5-C4	-5.90	1.34	1.38
36	1	962	A	C5-C4	-5.89	1.34	1.38
36	5	3104	U	C2-N3	-5.89	1.33	1.37
56	n0	79	VAL	CB-CG2	-5.89	1.40	1.52
36	1	808	A	C6-N6	-5.89	1.29	1.33
36	1	2279	A	N9-C4	-5.89	1.34	1.37
36	1	2996	U	N3-C4	5.89	1.43	1.38
36	5	1008	U	P-O5'	-5.89	1.53	1.59
36	1	2773	C	N1-C6	-5.89	1.33	1.37
36	5	3012	A	N3-C4	-5.89	1.31	1.34
36	1	1450	G	C2-N3	-5.89	1.28	1.32
36	1	1114	U	C2-N3	-5.89	1.33	1.37
36	1	3140	G	N1-C2	-5.89	1.33	1.37
36	5	895	A	C6-N1	-5.89	1.31	1.35
36	5	984	G	N7-C5	-5.89	1.35	1.39
36	1	751	A	C6-N6	-5.88	1.29	1.33
36	1	1404	G	N9-C8	-5.88	1.33	1.37
1	6	635	A	N9-C4	-5.88	1.34	1.37
36	1	367	A	C5-C4	-5.88	1.34	1.38
36	1	2241	U	N1-C2	-5.88	1.33	1.38
36	5	1163	A	N3-C4	-5.88	1.31	1.34
36	5	2798	C	N1-C6	-5.88	1.33	1.37
36	5	3110	C	N3-C4	-5.88	1.29	1.33
36	1	3213	A	N7-C5	-5.88	1.35	1.39
36	5	981	U	N1-C2	5.88	1.43	1.38
36	5	1625	A	N9-C4	-5.88	1.34	1.37
36	5	2912	G	C5-C4	-5.88	1.34	1.38
36	1	628	A	C6-N1	-5.88	1.31	1.35
36	5	2145	A	C6-N1	-5.88	1.31	1.35
36	1	306	A	C6-N1	-5.87	1.31	1.35
36	1	900	G	N7-C5	-5.87	1.35	1.39
36	1	1182	A	C5-C6	-5.87	1.35	1.41
36	1	2831	G	N9-C4	-5.87	1.33	1.38
1	6	390	G	N7-C5	-5.87	1.35	1.39
1	6	576	G	N7-C5	-5.87	1.35	1.39
36	1	2672	G	C5-C4	-5.87	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2997	G	N7-C5	-5.87	1.35	1.39
36	5	2370	G	N3-C4	-5.87	1.31	1.35
36	5	365	A	N7-C5	-5.87	1.35	1.39
36	5	583	G	C6-N1	-5.87	1.35	1.39
36	5	1152	G	C8-N7	5.87	1.34	1.30
36	5	2242	A	N9-C4	-5.87	1.34	1.37
36	5	2754	G	N1-C2	-5.87	1.33	1.37
36	5	2762	A	N9-C4	-5.87	1.34	1.37
1	6	1594	G	N9-C8	-5.87	1.33	1.37
37	7	73	C	C2-N3	5.87	1.40	1.35
1	2	390	G	N3-C4	-5.87	1.31	1.35
36	5	1406	A	N7-C5	-5.87	1.35	1.39
36	5	2813	A	C6-N1	-5.87	1.31	1.35
36	5	2871	G	N7-C5	5.87	1.42	1.39
36	1	2857	C	N1-C6	-5.86	1.33	1.37
52	M6	80	PHE	CB-CG	-5.86	1.41	1.51
36	1	2738	A	N3-C4	-5.86	1.31	1.34
36	1	431	U	N1-C2	-5.86	1.33	1.38
36	1	1309	U	C2-N3	-5.86	1.33	1.37
36	1	1335	C	N1-C6	-5.86	1.33	1.37
36	1	3139	A	N3-C4	-5.86	1.31	1.34
1	6	19	A	N7-C5	-5.86	1.35	1.39
36	5	88	A	N7-C5	-5.86	1.35	1.39
36	5	752	C	N1-C6	-5.86	1.33	1.37
38	8	12	A	C5-C6	-5.86	1.35	1.41
40	l3	46	PHE	CB-CG	-5.86	1.41	1.51
67	o1	90	PHE	CB-CG	-5.86	1.41	1.51
36	1	1401	A	C8-N7	-5.86	1.27	1.31
36	1	431	U	C2-N3	-5.86	1.33	1.37
36	1	2431	C	N3-C4	-5.86	1.29	1.33
36	5	2831	G	C6-O6	5.86	1.29	1.24
36	5	3013	U	C4-O4	-5.86	1.19	1.23
37	7	121	U	N1-C2	5.86	1.43	1.38
36	5	1557	A	N3-C4	-5.85	1.31	1.34
36	1	3213	A	C5-C6	-5.85	1.35	1.41
36	5	402	A	N9-C8	-5.85	1.33	1.37
36	5	1314	C	C4-C5	-5.85	1.38	1.43
36	1	2877	G	N9-C4	-5.85	1.33	1.38
36	1	3086	A	N3-C4	-5.85	1.31	1.34
36	5	3137	C	N1-C6	-5.85	1.33	1.37
1	2	551	G	N9-C4	-5.85	1.33	1.38
38	4	52	A	N9-C4	-5.85	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	1759	C	N1-C6	-5.85	1.33	1.37
36	5	888	A	N9-C4	-5.85	1.34	1.37
36	5	2950	G	N9-C4	-5.85	1.33	1.38
37	7	89	G	C6-N1	5.85	1.43	1.39
36	1	317	A	C6-N1	-5.85	1.31	1.35
36	5	884	A	N9-C8	-5.85	1.33	1.37
36	5	3195	U	C4-O4	5.85	1.28	1.23
38	8	14	C	N1-C6	-5.85	1.33	1.37
36	1	1366	A	N3-C4	-5.85	1.31	1.34
36	5	2940	A	C5-C6	-5.85	1.35	1.41
36	1	2402	A	C5-C4	-5.84	1.34	1.38
1	6	410	A	C6-N1	-5.84	1.31	1.35
36	5	421	G	C6-N1	-5.84	1.35	1.39
36	5	1303	A	C6-N1	-5.84	1.31	1.35
36	1	338	A	C5-C4	-5.84	1.34	1.38
36	1	498	A	C5-C4	-5.84	1.34	1.38
36	5	3110	C	N1-C6	-5.84	1.33	1.37
1	2	978	A	N9-C4	5.84	1.41	1.37
36	1	828	A	C5-C6	-5.84	1.35	1.41
36	1	2811	A	C6-N1	-5.84	1.31	1.35
36	5	559	A	N3-C4	-5.84	1.31	1.34
36	5	920	A	C2-N3	-5.84	1.28	1.33
36	5	1432	C	N3-C4	-5.84	1.29	1.33
36	5	2865	U	C2-N3	-5.84	1.33	1.37
36	5	1148	G	C8-N7	-5.84	1.27	1.30
36	5	2110	G	C6-N1	-5.84	1.35	1.39
36	5	2168	A	C5-C6	-5.84	1.35	1.41
36	5	2703	A	N9-C8	-5.84	1.33	1.37
36	1	209	A	C6-N1	-5.84	1.31	1.35
36	1	2391	G	N9-C8	-5.84	1.33	1.37
36	5	396	A	N3-C4	-5.84	1.31	1.34
36	5	1852	G	C5-C6	-5.84	1.36	1.42
36	1	2779	A	N3-C4	-5.83	1.31	1.34
36	1	2802	A	C5-C6	-5.83	1.35	1.41
36	1	1076	C	N1-C6	-5.83	1.33	1.37
36	1	3083	G	C5-C4	-5.83	1.34	1.38
36	5	755	A	N7-C5	-5.83	1.35	1.39
36	1	1585	C	C2-O2	5.83	1.29	1.24
36	5	2278	C	C2-O2	5.83	1.29	1.24
36	1	1554	U	N3-C4	5.83	1.43	1.38
49	M3	176	GLU	CB-CG	5.83	1.63	1.52
36	5	1180	A	C6-N1	-5.83	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2965	U	N1-C2	-5.83	1.33	1.38
36	1	1313	G	C5-C6	-5.83	1.36	1.42
36	1	3206	C	N1-C6	-5.82	1.33	1.37
47	M0	14	ASN	CB-CG	5.82	1.64	1.51
20	c8	129	TRP	CB-CG	-5.82	1.39	1.50
36	1	2641	U	N1-C6	-5.82	1.32	1.38
1	6	402	C	N1-C6	-5.82	1.33	1.37
36	5	2790	A	N9-C4	-5.82	1.34	1.37
36	1	676	G	N9-C4	5.82	1.42	1.38
36	1	2309	A	C5-C6	-5.82	1.35	1.41
36	5	2119	A	C5-C6	-5.82	1.35	1.41
36	1	2273	G	N3-C4	-5.82	1.31	1.35
36	1	2353	G	C5-C6	-5.82	1.36	1.42
36	5	3129	A	N7-C5	-5.82	1.35	1.39
36	1	3085	G	C5-C4	-5.82	1.34	1.38
36	5	353	G	N7-C5	-5.82	1.35	1.39
1	6	1730	A	C6-N1	-5.81	1.31	1.35
36	1	1171	G	C5-C4	-5.81	1.34	1.38
36	1	1184	A	N3-C4	-5.81	1.31	1.34
36	5	2364	G	C5-C6	-5.81	1.36	1.42
36	1	2383	C	C2-N3	5.81	1.40	1.35
36	1	2672	G	N1-C2	-5.81	1.33	1.37
36	5	2951	G	N1-C2	-5.81	1.33	1.37
36	5	3134	A	C6-N1	-5.81	1.31	1.35
36	5	3140	G	N3-C4	-5.81	1.31	1.35
37	7	84	A	C5-C6	-5.81	1.35	1.41
36	1	1316	C	C2-O2	-5.81	1.19	1.24
36	1	1431	G	N9-C8	-5.81	1.33	1.37
36	1	1877	U	C2-N3	-5.81	1.33	1.37
1	6	1142	A	C6-N1	-5.81	1.31	1.35
36	5	2892	A	C5-C6	-5.81	1.35	1.41
36	1	585	A	N9-C8	-5.81	1.33	1.37
36	5	3195	U	N1-C2	5.81	1.43	1.38
36	1	397	A	C5-C4	-5.80	1.34	1.38
36	1	2884	C	P-O5'	-5.80	1.53	1.59
1	6	1005	A	N3-C4	-5.80	1.31	1.34
36	5	3207	U	C4-O4	5.80	1.28	1.23
36	1	2360	C	C4-C5	-5.80	1.38	1.43
36	1	2964	G	N9-C8	-5.80	1.33	1.37
36	1	3272	C	C4-C5	-5.80	1.38	1.43
1	6	1133	A	N7-C5	-5.80	1.35	1.39
36	5	26	A	N9-C4	-5.80	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	N1	104	GLU	CG-CD	5.80	1.60	1.51
36	5	1784	G	N1-C2	-5.80	1.33	1.37
36	5	889	U	C2-N3	-5.80	1.33	1.37
36	5	2911	A	N3-C4	-5.80	1.31	1.34
36	5	2811	A	C5-C4	-5.80	1.34	1.38
1	6	1159	C	N1-C6	-5.79	1.33	1.37
36	1	1136	A	N3-C4	-5.79	1.31	1.34
1	6	1130	G	N1-C2	-5.79	1.33	1.37
36	1	939	U	C4-C5	-5.79	1.38	1.43
36	1	1377	G	C5-C6	-5.79	1.36	1.42
36	5	980	A	N3-C4	5.79	1.38	1.34
36	1	962	A	N9-C8	-5.79	1.33	1.37
1	6	46	A	N3-C4	-5.79	1.31	1.34
36	1	2651	G	N7-C5	-5.79	1.35	1.39
36	1	2853	A	N9-C4	-5.79	1.34	1.37
36	1	3085	G	N9-C4	-5.79	1.33	1.38
36	5	3148	U	C2-N3	-5.79	1.33	1.37
36	5	3362	A	N7-C5	-5.79	1.35	1.39
36	1	1906	G	N9-C4	-5.78	1.33	1.38
36	5	2303	A	N9-C4	-5.78	1.34	1.37
36	5	2400	G	N7-C5	-5.78	1.35	1.39
36	5	2662	G	C8-N7	-5.78	1.27	1.30
36	1	61	A	N7-C5	-5.78	1.35	1.39
36	1	3009	G	N9-C4	-5.78	1.33	1.38
36	5	3309	G	N1-C2	-5.78	1.33	1.37
1	6	157	A	N9-C4	-5.78	1.34	1.37
36	1	2933	A	C5-C6	-5.78	1.35	1.41
36	5	1185	C	C2-N3	-5.78	1.31	1.35
36	1	659	G	C6-N1	-5.78	1.35	1.39
36	1	2358	A	C5-C4	-5.78	1.34	1.38
1	6	1166	A	N3-C4	-5.78	1.31	1.34
36	5	2302	G	C2-N3	-5.78	1.28	1.32
36	1	2954	U	N1-C2	5.77	1.43	1.38
36	5	951	A	N7-C5	-5.77	1.35	1.39
36	5	1374	G	N9-C4	-5.77	1.33	1.38
36	5	2379	U	N1-C2	-5.77	1.33	1.38
36	5	2947	G	C6-O6	-5.77	1.19	1.24
36	1	1438	U	C2-O2	-5.77	1.17	1.22
1	6	991	G	C2-N3	-5.77	1.28	1.32
36	5	2954	U	C2-N3	5.77	1.41	1.37
36	1	2288	G	N1-C2	-5.77	1.33	1.37
36	1	2302	G	C5-C4	-5.77	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	L5	74	VAL	CA-CB	-5.77	1.42	1.54
36	5	2326	A	N9-C4	-5.77	1.34	1.37
36	5	2342	U	C4-O4	-5.77	1.19	1.23
36	1	77	A	N9-C4	-5.76	1.34	1.37
36	5	651	G	C5-C4	-5.76	1.34	1.38
36	5	1406	A	C5-C4	-5.76	1.34	1.38
36	5	3013	U	C4-C5	-5.76	1.38	1.43
1	6	1548	G	C5-C4	-5.76	1.34	1.38
1	2	1751	C	N1-C6	-5.76	1.33	1.37
36	1	1406	A	C5-C6	-5.76	1.35	1.41
36	1	3244	A	N3-C4	-5.76	1.31	1.34
36	5	589	A	N9-C8	-5.76	1.33	1.37
36	5	1152	G	C2-N3	-5.76	1.28	1.32
36	5	2151	C	N1-C6	-5.76	1.33	1.37
36	1	2201	G	N1-C2	-5.76	1.33	1.37
1	6	1584	G	C5-C4	-5.76	1.34	1.38
36	5	2339	C	C4-C5	-5.76	1.38	1.43
36	5	2647	A	C6-N1	-5.76	1.31	1.35
1	6	367	A	N3-C4	-5.75	1.31	1.34
36	5	2723	U	N3-C4	-5.75	1.33	1.38
36	1	2159	U	C2-O2	5.75	1.27	1.22
1	6	1039	A	N9-C4	-5.75	1.34	1.37
36	1	1373	A	N9-C4	-5.75	1.34	1.37
1	6	96	G	N7-C5	-5.75	1.35	1.39
36	5	2994	A	N9-C4	-5.75	1.34	1.37
36	5	2868	U	C4-C5	-5.75	1.38	1.43
38	8	8	C	C4-C5	-5.75	1.38	1.43
36	1	370	U	C4-C5	-5.75	1.38	1.43
36	1	780	A	C6-N1	-5.75	1.31	1.35
36	1	1891	A	N9-C4	-5.75	1.34	1.37
36	1	1924	U	C2-N3	-5.75	1.33	1.37
36	1	3011	A	C5-C6	-5.75	1.35	1.41
36	5	423	A	C5-C4	-5.75	1.34	1.38
36	5	2419	A	P-O5'	5.75	1.65	1.59
47	M0	49	CYS	CB-SG	-5.75	1.72	1.81
36	5	2936	A	C6-N6	-5.75	1.29	1.33
36	1	1206	G	C8-N7	-5.75	1.27	1.30
36	5	994	G	N9-C8	-5.75	1.33	1.37
36	5	1174	G	C8-N7	-5.74	1.27	1.30
36	1	955	U	N3-C4	-5.74	1.33	1.38
36	1	1163	A	C5-C6	-5.74	1.35	1.41
36	5	3207	U	N1-C6	5.74	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1752	A	C6-N1	-5.74	1.31	1.35
36	1	2833	A	N9-C4	-5.74	1.34	1.37
47	M0	186	GLU	CB-CG	5.74	1.63	1.52
36	5	314	U	N1-C2	-5.74	1.33	1.38
36	5	3004	C	N1-C6	-5.74	1.33	1.37
36	5	3209	A	N9-C8	5.74	1.42	1.37
36	1	1874	A	N7-C5	-5.74	1.35	1.39
36	1	883	A	C6-N6	-5.74	1.29	1.33
36	1	3180	A	N9-C4	-5.74	1.34	1.37
36	5	2868	U	N1-C6	-5.74	1.32	1.38
36	5	3131	U	C2-N3	-5.74	1.33	1.37
36	5	1352	A	N9-C4	5.73	1.41	1.37
36	1	570	A	N9-C4	-5.73	1.34	1.37
1	6	542	A	C6-N1	-5.73	1.31	1.35
36	5	1456	A	C5-C4	-5.73	1.34	1.38
36	1	80	G	N7-C5	-5.73	1.35	1.39
36	1	2377	G	N9-C8	-5.73	1.33	1.37
36	5	1319	G	N9-C8	-5.73	1.33	1.37
40	l3	197	GLU	CG-CD	5.73	1.60	1.51
1	6	1614	A	N7-C5	-5.73	1.35	1.39
36	5	2813	A	C5-C4	-5.73	1.34	1.38
36	5	2837	A	C6-N1	-5.73	1.31	1.35
36	5	3042	U	C4-O4	-5.73	1.19	1.23
36	1	2363	A	N7-C5	-5.73	1.35	1.39
1	6	408	C	N3-C4	-5.73	1.29	1.33
1	6	1638	G	N7-C5	-5.73	1.35	1.39
36	5	563	U	C2-N3	-5.73	1.33	1.37
36	5	3120	C	N1-C6	-5.73	1.33	1.37
36	5	378	A	N9-C4	-5.73	1.34	1.37
36	5	503	C	N3-C4	-5.72	1.29	1.33
36	5	1881	A	N3-C4	-5.72	1.31	1.34
36	5	2100	A	N3-C4	5.72	1.38	1.34
36	5	2952	G	N9-C8	-5.72	1.33	1.37
1	2	1454	G	N9-C8	-5.72	1.33	1.37
36	5	2976	A	N9-C8	-5.72	1.33	1.37
64	n8	16	SER	CA-CB	5.72	1.61	1.52
36	1	2800	G	N3-C4	-5.72	1.31	1.35
36	1	1407	A	C6-N1	-5.72	1.31	1.35
36	1	2401	A	C5-C4	5.72	1.42	1.38
1	6	568	G	C6-N1	-5.72	1.35	1.39
1	6	1111	G	N7-C5	-5.72	1.35	1.39
25	d3	138	GLU	CG-CD	5.72	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	1933	A	N9-C4	-5.72	1.34	1.37
36	5	2748	A	N3-C4	-5.72	1.31	1.34
36	1	1154	A	C6-N1	-5.71	1.31	1.35
36	5	2401	A	C6-N6	5.71	1.38	1.33
36	5	844	G	N9-C4	-5.71	1.33	1.38
36	5	2943	G	C2-N3	-5.71	1.28	1.32
1	6	1110	G	N7-C5	-5.71	1.35	1.39
1	6	1116	A	C5-C6	-5.71	1.35	1.41
36	5	2886	U	C2-O2	-5.71	1.17	1.22
36	5	3127	A	C5-C6	-5.71	1.35	1.41
36	1	2093	A	N9-C4	5.71	1.41	1.37
36	5	1307	G	N9-C8	-5.71	1.33	1.37
36	1	607	A	N7-C5	-5.71	1.35	1.39
36	5	3114	A	N9-C4	-5.71	1.34	1.37
37	7	88	G	C6-O6	-5.71	1.19	1.24
36	5	2936	A	C5-C6	-5.71	1.35	1.41
36	5	3180	A	C6-N6	-5.71	1.29	1.33
36	1	1409	G	C5-C4	-5.71	1.34	1.38
36	1	2640	A	C6-N1	-5.71	1.31	1.35
36	5	560	G	N3-C4	-5.70	1.31	1.35
36	5	3047	U	C2-O2	-5.70	1.17	1.22
36	5	3172	A	N7-C5	-5.70	1.35	1.39
36	5	647	A	C6-N1	-5.70	1.31	1.35
1	2	525	A	N9-C4	-5.70	1.34	1.37
36	1	41	G	N9-C4	-5.70	1.33	1.38
36	1	2129	U	N3-C4	-5.70	1.33	1.38
36	1	2985	C	N1-C2	-5.70	1.34	1.40
1	6	933	A	N3-C4	-5.70	1.31	1.34
36	5	884	A	C5-C4	-5.70	1.34	1.38
36	5	2986	U	C2-N3	-5.70	1.33	1.37
36	1	1363	A	C5-C6	-5.70	1.35	1.41
36	1	2974	U	N1-C2	-5.70	1.33	1.38
36	1	3058	U	N1-C2	-5.70	1.33	1.38
36	5	1753	G	C5-C4	-5.70	1.34	1.38
36	1	2697	A	N3-C4	-5.70	1.31	1.34
1	6	1651	A	C6-N1	-5.70	1.31	1.35
36	5	2418	G	C5-C4	5.70	1.42	1.38
36	1	1178	G	C5-C6	-5.70	1.36	1.42
36	1	2860	U	C2-N3	5.70	1.41	1.37
36	1	3098	G	C6-N1	-5.70	1.35	1.39
36	1	585	A	C6-N1	-5.69	1.31	1.35
36	1	1154	A	N9-C4	-5.69	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	582	U	N1-C2	5.69	1.43	1.38
36	1	523	A	N9-C4	-5.69	1.34	1.37
36	1	652	G	N1-C2	-5.69	1.33	1.37
36	1	398	A	N3-C4	5.69	1.38	1.34
36	1	630	A	N7-C5	-5.69	1.35	1.39
36	1	1343	A	N9-C4	-5.69	1.34	1.37
37	7	102	A	C5-C6	-5.69	1.35	1.41
59	n3	137	VAL	CB-CG2	-5.69	1.41	1.52
36	1	807	A	C5-C6	-5.69	1.35	1.41
36	1	939	U	N1-C2	-5.69	1.33	1.38
36	5	1101	G	N1-C2	-5.69	1.33	1.37
36	5	3245	A	N9-C4	-5.69	1.34	1.37
36	5	1432	C	N1-C2	-5.69	1.34	1.40
36	1	2689	A	N7-C5	-5.68	1.35	1.39
36	5	1402	C	N3-C4	-5.68	1.29	1.33
36	5	2816	G	C5-C4	-5.68	1.34	1.38
37	7	98	C	N1-C6	-5.68	1.33	1.37
36	1	402	A	C5-C4	-5.68	1.34	1.38
36	5	3092	C	N1-C6	-5.68	1.33	1.37
36	1	2743	A	C5-C4	-5.68	1.34	1.38
37	7	113	C	N3-C4	-5.68	1.29	1.33
1	6	85	A	N9-C4	-5.68	1.34	1.37
1	6	1119	G	C5-C4	-5.68	1.34	1.38
36	5	2195	C	N3-C4	-5.68	1.29	1.33
36	5	2401	A	N7-C5	5.68	1.42	1.39
36	1	1369	A	N9-C8	-5.68	1.33	1.37
36	1	2185	G	N9-C8	-5.68	1.33	1.37
36	1	2396	G	N7-C5	-5.68	1.35	1.39
1	6	2	A	N9-C4	5.68	1.41	1.37
36	5	900	G	C6-N1	-5.68	1.35	1.39
36	5	946	U	C2-O2	-5.68	1.17	1.22
36	5	3075	G	N9-C4	-5.68	1.33	1.38
36	1	1927	G	N1-C2	-5.67	1.33	1.37
36	1	2913	C	N1-C2	-5.67	1.34	1.40
36	1	906	A	N7-C5	-5.67	1.35	1.39
1	6	1753	A	C2-N3	5.67	1.38	1.33
36	1	633	C	C4-C5	-5.67	1.38	1.43
36	1	3011	A	C6-N6	-5.67	1.29	1.33
1	6	119	A	N3-C4	-5.67	1.31	1.34
1	6	746	A	N3-C4	-5.67	1.31	1.34
36	5	1429	G	N1-C2	-5.67	1.33	1.37
37	7	37	G	N9-C4	5.67	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1405	U	N3-C4	-5.67	1.33	1.38
39	l2	196	TRP	CB-CG	-5.67	1.40	1.50
36	1	967	A	N7-C5	-5.67	1.35	1.39
36	5	2607	G	N9-C8	-5.67	1.33	1.37
36	1	2367	A	N3-C4	-5.67	1.31	1.34
36	5	1332	A	C6-N1	-5.67	1.31	1.35
36	5	1376	C	C4-C5	-5.67	1.38	1.43
1	6	1243	G	N9-C4	5.67	1.42	1.38
36	5	2628	A	N3-C4	-5.67	1.31	1.34
36	5	3139	A	C6-N1	-5.67	1.31	1.35
36	1	1393	A	C6-N1	-5.66	1.31	1.35
36	5	1197	A	N9-C8	-5.66	1.33	1.37
36	5	2879	C	C5-C6	-5.66	1.29	1.34
36	1	2833	A	N3-C4	-5.66	1.31	1.34
36	5	1188	U	C2-O2	-5.66	1.17	1.22
1	6	1525	A	C5-C4	-5.66	1.34	1.38
36	5	1399	A	C5-C6	-5.66	1.35	1.41
36	5	1411	C	N1-C6	-5.66	1.33	1.37
36	5	2641	U	C4-C5	-5.66	1.38	1.43
36	1	1398	U	N3-C4	-5.66	1.33	1.38
1	6	72	A	N9-C4	5.66	1.41	1.37
36	5	876	A	C5-C6	-5.66	1.35	1.41
36	5	2419	A	N3-C4	-5.66	1.31	1.34
36	1	2731	U	N1-C2	-5.66	1.33	1.38
1	6	865	A	N3-C4	-5.66	1.31	1.34
78	q2	96	GLU	CG-CD	5.66	1.60	1.51
36	1	1180	A	C5-C4	-5.66	1.34	1.38
36	1	2628	A	N7-C5	-5.66	1.35	1.39
1	6	779	U	N1-C2	5.66	1.43	1.38
36	5	1166	G	N9-C4	-5.66	1.33	1.38
36	1	25	U	C4-O4	5.65	1.28	1.23
1	6	1000	C	N3-C4	-5.65	1.29	1.33
1	6	1649	G	N7-C5	-5.65	1.35	1.39
36	5	1883	A	N7-C5	-5.65	1.35	1.39
36	5	3009	G	C6-N1	-5.65	1.35	1.39
36	5	512	U	N1-C2	-5.65	1.33	1.38
36	1	3047	U	C2-N3	-5.65	1.33	1.37
1	2	1737	G	N9-C4	-5.64	1.33	1.38
36	1	35	A	C5-C4	-5.64	1.34	1.38
36	1	691	A	C5-C6	-5.64	1.35	1.41
36	1	2794	G	N9-C4	5.64	1.42	1.38
36	5	566	G	N1-C2	-5.64	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	1163	A	N7-C5	-5.64	1.35	1.39
36	5	744	A	C5-C6	-5.64	1.35	1.41
36	5	798	G	N7-C5	-5.64	1.35	1.39
4	S2	35	TRP	CB-CG	5.64	1.60	1.50
36	1	920	A	C5-C6	-5.64	1.35	1.41
36	1	1541	G	N7-C5	-5.64	1.35	1.39
37	3	95	A	C6-N1	-5.64	1.31	1.35
36	5	353	G	N3-C4	-5.64	1.31	1.35
36	1	2302	G	C6-N1	-5.64	1.35	1.39
36	5	1861	G	C6-N1	-5.64	1.35	1.39
37	7	87	G	N3-C4	-5.64	1.31	1.35
46	19	11	GLU	CG-CD	5.64	1.60	1.51
36	1	2188	A	C5-C4	-5.63	1.34	1.38
1	6	1517	U	C2-O2	-5.63	1.17	1.22
36	5	944	C	N3-C4	-5.63	1.30	1.33
36	1	1178	G	N9-C4	5.63	1.42	1.38
36	1	1332	A	N7-C5	-5.63	1.35	1.39
36	1	405	U	N1-C2	-5.63	1.33	1.38
36	1	1187	C	N1-C6	-5.63	1.33	1.37
36	5	639	G	N3-C4	-5.63	1.31	1.35
1	6	1139	A	N7-C5	-5.63	1.35	1.39
36	5	1145	G	N9-C8	-5.63	1.33	1.37
36	1	343	U	N3-C4	-5.63	1.33	1.38
36	1	2143	A	N3-C4	-5.63	1.31	1.34
1	6	906	A	N9-C4	-5.63	1.34	1.37
1	6	1642	G	C6-N1	-5.63	1.35	1.39
36	5	2342	U	N3-C4	-5.63	1.33	1.38
36	5	3273	A	N3-C4	-5.63	1.31	1.34
36	5	1101	G	N9-C8	-5.62	1.33	1.37
38	4	103	G	N9-C4	5.62	1.42	1.38
36	5	1200	A	P-O5'	-5.62	1.54	1.59
36	5	2652	U	C4-C5	-5.62	1.38	1.43
36	5	2833	A	C6-N1	-5.62	1.31	1.35
36	1	35	A	N7-C5	-5.62	1.35	1.39
36	1	866	A	N3-C4	-5.62	1.31	1.34
36	1	2629	U	N1-C2	-5.62	1.33	1.38
36	1	2697	A	C6-N1	-5.62	1.31	1.35
36	5	2828	G	C6-N1	-5.62	1.35	1.39
36	5	845	G	C6-O6	5.62	1.29	1.24
36	1	425	G	N7-C5	-5.62	1.35	1.39
36	1	2932	U	N1-C2	-5.62	1.33	1.38
36	5	2113	A	N9-C4	-5.62	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	3119	U	N3-C4	-5.62	1.33	1.38
36	5	3213	A	C5-C6	-5.62	1.35	1.41
36	1	2401	A	N7-C5	5.62	1.42	1.39
36	5	1062	A	N7-C5	-5.62	1.35	1.39
36	5	2307	G	C5-C4	-5.62	1.34	1.38
36	5	2892	A	C5-C4	-5.62	1.34	1.38
36	1	637	C	N3-C4	-5.62	1.30	1.33
36	1	1348	U	N1-C2	5.62	1.43	1.38
36	1	2111	G	C5-C4	-5.62	1.34	1.38
36	1	2185	G	C5-C6	-5.62	1.36	1.42
36	5	3213	A	N3-C4	-5.62	1.31	1.34
38	8	38	U	N1-C2	5.62	1.43	1.38
36	5	1784	G	C5-C4	-5.61	1.34	1.38
36	5	3122	A	C5-C6	-5.61	1.35	1.41
37	7	27	A	C6-N1	-5.61	1.31	1.35
40	l3	106	TRP	CB-CG	-5.61	1.40	1.50
36	1	1888	U	N1-C6	-5.61	1.32	1.38
36	5	911	C	C2-O2	-5.61	1.19	1.24
36	1	2756	C	N1-C6	-5.61	1.33	1.37
1	6	1147	A	N3-C4	-5.61	1.31	1.34
36	5	1535	A	C5-C4	-5.61	1.34	1.38
52	m6	40	GLU	CD-OE1	5.61	1.31	1.25
36	1	1117	G	N7-C5	-5.60	1.35	1.39
36	5	3305	A	N7-C5	-5.60	1.35	1.39
1	2	373	G	N7-C5	-5.60	1.35	1.39
36	1	654	C	N3-C4	-5.60	1.30	1.33
36	5	2371	G	N7-C5	-5.60	1.35	1.39
36	5	3015	G	N3-C4	-5.60	1.31	1.35
36	5	2872	A	C5-C6	5.60	1.46	1.41
36	5	2910	A	N9-C4	-5.60	1.34	1.37
36	1	2149	A	N9-C4	-5.60	1.34	1.37
36	1	2401	A	N9-C8	5.60	1.42	1.37
36	5	651	G	C8-N7	-5.60	1.27	1.30
36	5	3245	A	C2-N3	-5.60	1.28	1.33
79	q3	8	VAL	CB-CG2	-5.60	1.41	1.52
36	5	2995	A	C5-C6	-5.60	1.36	1.41
36	1	52	A	C6-N1	-5.59	1.31	1.35
36	1	2827	U	N3-C4	-5.59	1.33	1.38
36	5	424	G	N7-C5	-5.59	1.35	1.39
36	5	2363	A	N3-C4	-5.59	1.31	1.34
36	5	2830	G	N9-C4	-5.59	1.33	1.38
37	3	87	G	N3-C4	-5.59	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	760	A	N3-C4	-5.59	1.31	1.34
36	5	1863	G	C5-C4	-5.59	1.34	1.38
36	1	780	A	N9-C4	-5.59	1.34	1.37
36	1	2920	U	N1-C2	-5.59	1.33	1.38
1	6	781	U	N1-C2	5.59	1.43	1.38
36	5	1142	G	N7-C5	-5.59	1.35	1.39
36	5	2961	G	C8-N7	-5.59	1.27	1.30
36	1	1143	A	N7-C5	-5.59	1.35	1.39
36	1	1397	C	N1-C6	-5.59	1.33	1.37
37	3	25	G	N1-C2	-5.59	1.33	1.37
37	3	75	G	N3-C4	-5.59	1.31	1.35
1	6	100	A	N7-C5	-5.59	1.35	1.39
36	5	2155	G	N3-C4	-5.59	1.31	1.35
36	5	2259	A	C5-C4	-5.59	1.34	1.38
36	5	2394	G	C2-N3	-5.59	1.28	1.32
36	5	3057	U	C4-C5	-5.59	1.38	1.43
36	5	3144	G	C2-N2	-5.59	1.28	1.34
36	5	3220	G	C6-N1	-5.59	1.35	1.39
36	1	1176	C	C4-C5	-5.58	1.38	1.43
36	1	2520	A	N9-C4	-5.58	1.34	1.37
36	1	2650	U	N3-C4	-5.58	1.33	1.38
36	1	2997	G	C5-C6	-5.58	1.36	1.42
52	M6	166	GLU	CG-CD	5.58	1.60	1.51
1	6	375	U	N1-C2	-5.58	1.33	1.38
36	5	1119	C	N1-C6	-5.58	1.33	1.37
36	1	2273	G	C5-C4	-5.58	1.34	1.38
36	1	2874	G	P-O5'	5.58	1.65	1.59
1	6	1636	C	N1-C6	-5.58	1.33	1.37
36	5	2627	C	N1-C6	-5.58	1.33	1.37
36	1	2971	A	N3-C4	5.58	1.38	1.34
36	5	1141	C	C4-N4	-5.58	1.28	1.33
36	1	964	G	N7-C5	-5.58	1.35	1.39
36	1	1432	C	N1-C2	-5.58	1.34	1.40
36	1	2155	G	C6-N1	-5.58	1.35	1.39
36	5	1137	C	N1-C6	-5.58	1.33	1.37
36	5	3224	G	C5-C4	-5.58	1.34	1.38
36	5	2151	C	N3-C4	-5.58	1.30	1.33
36	5	3226	A	C6-N1	-5.58	1.31	1.35
36	5	2379	U	C2-O2	-5.57	1.17	1.22
36	1	909	G	C5-C6	-5.57	1.36	1.42
36	1	2111	G	C6-N1	-5.57	1.35	1.39
36	1	2335	G	N1-C2	-5.57	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	635	G	N7-C5	-5.57	1.35	1.39
36	1	1310	G	C6-O6	-5.57	1.19	1.24
36	5	281	G	C6-N1	-5.57	1.35	1.39
36	1	1169	A	C5-C4	-5.57	1.34	1.38
36	1	13	A	N7-C5	-5.57	1.35	1.39
53	M7	83	TRP	CB-CG	-5.57	1.40	1.50
36	1	628	A	N9-C4	-5.57	1.34	1.37
36	1	1180	A	P-O5'	-5.57	1.54	1.59
36	1	1096	U	P-O5'	5.56	1.65	1.59
36	1	2321	A	N9-C4	-5.56	1.34	1.37
36	1	1145	G	C8-N7	-5.56	1.27	1.30
36	1	2213	A	N9-C4	-5.56	1.34	1.37
36	5	501	A	C5-C4	-5.56	1.34	1.38
36	5	1473	G	N1-C2	-5.56	1.33	1.37
36	5	1665	C	N3-C4	-5.56	1.30	1.33
36	5	1897	G	N7-C5	-5.56	1.35	1.39
36	5	2748	A	C2-N3	-5.56	1.28	1.33
38	8	106	C	N1-C6	-5.56	1.33	1.37
36	5	349	A	N3-C4	-5.56	1.31	1.34
36	5	2933	A	C5-C4	-5.56	1.34	1.38
36	1	1207	G	N7-C5	-5.56	1.35	1.39
36	1	1361	U	N1-C2	-5.56	1.33	1.38
36	1	2145	A	C6-N1	-5.56	1.31	1.35
36	5	789	A	C6-N1	-5.56	1.31	1.35
36	5	2648	G	N9-C8	-5.56	1.33	1.37
36	5	2884	C	C2-O2	-5.56	1.19	1.24
36	5	3034	C	N1-C6	-5.56	1.33	1.37
1	2	562	G	C6-N1	-5.56	1.35	1.39
36	1	980	A	N9-C4	5.56	1.41	1.37
36	1	1791	C	N3-C4	-5.56	1.30	1.33
36	5	923	C	N3-C4	-5.56	1.30	1.33
36	5	566	G	C6-N1	-5.56	1.35	1.39
36	5	2670	G	N3-C4	-5.56	1.31	1.35
36	1	666	A	C6-N1	-5.55	1.31	1.35
36	5	1205	A	N7-C5	-5.55	1.35	1.39
36	5	3112	G	C5-C4	-5.55	1.34	1.38
36	1	1438	U	N1-C2	-5.55	1.33	1.38
36	1	1506	A	N9-C4	-5.55	1.34	1.37
36	1	2699	G	N9-C4	-5.55	1.33	1.38
36	1	3085	G	N7-C5	-5.55	1.35	1.39
1	6	318	U	N1-C2	-5.55	1.33	1.38
1	6	788	A	N9-C4	-5.55	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	842	G	C5-C4	-5.55	1.34	1.38
36	1	335	G	C5-C6	-5.55	1.36	1.42
1	6	1529	C	N1-C6	-5.55	1.33	1.37
1	2	623	A	N3-C4	-5.55	1.31	1.34
36	5	1451	C	C4-C5	-5.55	1.38	1.43
36	5	3181	C	N3-C4	-5.55	1.30	1.33
1	6	1002	G	C5-C4	-5.54	1.34	1.38
36	5	1136	A	C5-C4	-5.54	1.34	1.38
1	2	449	C	N3-C4	-5.54	1.30	1.33
36	1	2402	A	C6-N6	-5.54	1.29	1.33
36	5	847	A	N3-C4	-5.54	1.31	1.34
1	2	390	G	C2-N3	-5.54	1.28	1.32
36	1	1400	G	N7-C5	-5.54	1.35	1.39
36	5	3038	U	C4-C5	-5.54	1.38	1.43
36	1	640	U	N1-C2	-5.54	1.33	1.38
36	5	958	C	N1-C2	-5.54	1.34	1.40
36	5	3046	A	N9-C4	-5.54	1.34	1.37
36	1	2145	A	C5-C4	-5.54	1.34	1.38
1	6	1631	A	N9-C4	-5.54	1.34	1.37
36	5	2731	U	N3-C4	-5.54	1.33	1.38
36	5	2807	U	C4-C5	-5.54	1.38	1.43
36	1	1886	A	C5-C4	-5.54	1.34	1.38
1	6	781	U	C2-N3	5.54	1.41	1.37
36	5	725	G	C6-N1	-5.54	1.35	1.39
36	1	900	G	N3-C4	-5.53	1.31	1.35
36	1	2647	A	C5-C6	-5.53	1.36	1.41
36	5	2973	G	C2-N3	-5.53	1.28	1.32
36	1	2305	G	C6-N1	-5.53	1.35	1.39
1	6	1597	A	N7-C5	-5.53	1.35	1.39
36	5	2863	G	N3-C4	-5.53	1.31	1.35
36	1	3273	A	N1-C2	-5.53	1.29	1.34
36	5	199	A	N9-C4	5.53	1.41	1.37
36	5	2993	G	N7-C5	-5.53	1.35	1.39
37	7	25	G	C5-C4	-5.53	1.34	1.38
36	1	2649	A	C5-C6	-5.53	1.36	1.41
36	5	583	G	N3-C4	-5.53	1.31	1.35
38	8	1	A	N9-C8	-5.53	1.33	1.37
36	5	3086	A	N9-C4	-5.53	1.34	1.37
36	5	2244	A	P-O5'	-5.53	1.54	1.59
36	5	2632	G	C8-N7	-5.53	1.27	1.30
36	1	943	U	N1-C2	-5.52	1.33	1.38
36	5	1005	G	N3-C4	-5.52	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2378	C	N1-C2	-5.52	1.34	1.40
36	1	3045	G	C5-C6	-5.52	1.36	1.42
36	5	2307	G	N9-C4	-5.52	1.33	1.38
36	5	2616	C	C2-O2	-5.52	1.19	1.24
36	1	619	A	N3-C4	5.52	1.38	1.34
36	1	2153	U	C4-O4	-5.52	1.19	1.23
36	1	2881	C	C2-O2	5.52	1.29	1.24
36	1	3027	A	N9-C4	-5.52	1.34	1.37
38	4	52	A	C6-N1	-5.52	1.31	1.35
36	5	644	G	N9-C4	5.52	1.42	1.38
36	5	2630	C	N1-C6	-5.52	1.33	1.37
36	1	424	G	C6-O6	-5.51	1.19	1.24
36	1	744	A	N3-C4	-5.51	1.31	1.34
36	1	1913	A	N3-C4	-5.51	1.31	1.34
36	5	1589	A	C5-C4	-5.51	1.34	1.38
36	5	1908	A	N9-C4	5.51	1.41	1.37
36	5	2647	A	N3-C4	-5.51	1.31	1.34
36	5	2871	G	C5-C4	5.51	1.42	1.38
36	5	3056	U	C2-N3	-5.51	1.33	1.37
37	7	49	G	N9-C4	-5.51	1.33	1.38
36	1	2858	U	N1-C6	-5.51	1.32	1.38
36	5	1305	U	N1-C6	-5.51	1.32	1.38
36	5	2968	G	N9-C8	-5.51	1.33	1.37
36	5	588	G	C6-N1	-5.51	1.35	1.39
36	5	2172	A	C6-N1	-5.51	1.31	1.35
37	7	14	U	N1-C6	-5.51	1.32	1.38
36	1	691	A	N7-C5	-5.51	1.35	1.39
36	5	1116	G	C5-C4	-5.51	1.34	1.38
36	5	1182	A	C5-C4	-5.51	1.34	1.38
36	5	1397	C	N1-C6	-5.51	1.33	1.37
36	5	2703	A	P-O5'	-5.51	1.54	1.59
36	5	2757	U	N3-C4	-5.51	1.33	1.38
36	1	2996	U	C2-N3	5.51	1.41	1.37
36	1	3008	A	N9-C4	-5.51	1.34	1.37
36	5	3045	G	N3-C4	-5.51	1.31	1.35
36	1	2403	G	N9-C4	5.50	1.42	1.38
36	5	2848	G	N9-C4	-5.50	1.33	1.38
36	5	668	G	N3-C4	-5.50	1.31	1.35
36	5	1047	A	N9-C4	-5.50	1.34	1.37
36	5	2665	U	C2-N3	-5.50	1.33	1.37
36	5	3065	G	N3-C4	-5.50	1.31	1.35
36	1	2891	U	N1-C2	-5.50	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2980	U	N1-C6	-5.50	1.33	1.38
36	5	1193	A	N7-C5	-5.50	1.35	1.39
36	5	1217	A	C5-C4	-5.50	1.34	1.38
36	5	2188	A	N3-C4	-5.50	1.31	1.34
36	1	1467	A	N9-C4	-5.50	1.34	1.37
36	1	2940	A	N7-C5	-5.50	1.35	1.39
36	5	2409	G	N7-C5	-5.50	1.35	1.39
36	5	2618	G	P-O5'	-5.50	1.54	1.59
37	7	117	A	N3-C4	-5.50	1.31	1.34
1	2	323	A	N9-C4	-5.50	1.34	1.37
36	1	34	A	C5-C6	-5.49	1.36	1.41
36	1	2415	C	N1-C6	-5.49	1.33	1.37
36	1	3022	G	C5-C6	-5.49	1.36	1.42
36	5	2187	G	N3-C4	-5.49	1.31	1.35
1	2	42	G	N9-C8	-5.49	1.34	1.37
36	5	951	A	N3-C4	-5.49	1.31	1.34
36	5	3026	G	C8-N7	-5.49	1.27	1.30
36	1	1079	A	N3-C4	-5.49	1.31	1.34
36	1	2755	C	C2-N3	-5.49	1.31	1.35
36	1	3150	A	N7-C5	-5.49	1.35	1.39
36	5	1869	C	N1-C6	-5.49	1.33	1.37
36	5	1916	U	C2-N3	-5.49	1.33	1.37
36	5	3124	G	C5-C6	-5.49	1.36	1.42
36	1	2994	A	N3-C4	-5.49	1.31	1.34
36	1	3210	A	C6-N1	-5.49	1.31	1.35
36	5	2628	A	C6-N1	-5.49	1.31	1.35
36	5	2918	G	N1-C2	-5.49	1.33	1.37
36	5	2950	G	N7-C5	-5.49	1.35	1.39
36	5	3262	U	C2-O2	-5.49	1.17	1.22
36	5	2130	G	N3-C4	-5.49	1.31	1.35
36	5	1370	G	C2-N3	-5.49	1.28	1.32
36	5	2995	A	C5-C4	-5.49	1.34	1.38
1	6	1300	A	C5-C4	-5.48	1.34	1.38
1	2	1786	G	N3-C4	-5.48	1.31	1.35
36	1	2875	U	C5-C6	5.48	1.39	1.34
1	6	631	G	N3-C4	-5.48	1.31	1.35
1	6	1111	G	C6-N1	-5.48	1.35	1.39
1	6	1584	G	C5-C6	-5.48	1.36	1.42
36	5	915	A	N7-C5	-5.48	1.35	1.39
36	5	3139	A	N9-C8	-5.48	1.33	1.37
36	5	3299	A	N3-C4	-5.48	1.31	1.34
1	6	1127	G	C6-N1	5.48	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	356	C	N1-C6	-5.48	1.33	1.37
36	5	844	G	C5-C4	-5.48	1.34	1.38
36	5	1311	G	N9-C8	-5.48	1.34	1.37
36	5	2606	G	N9-C4	-5.48	1.33	1.38
36	1	650	C	N1-C6	-5.48	1.33	1.37
36	1	1417	G	N9-C4	-5.48	1.33	1.38
36	5	2188	A	N9-C4	-5.48	1.34	1.37
36	1	3130	A	C5-C6	-5.48	1.36	1.41
36	5	651	G	C6-N1	-5.48	1.35	1.39
36	5	1076	C	N3-C4	-5.48	1.30	1.33
36	5	2830	G	N9-C8	-5.48	1.34	1.37
43	16	52	VAL	CB-CG2	-5.48	1.41	1.52
36	1	518	G	N9-C4	-5.48	1.33	1.38
36	5	2124	G	N7-C5	-5.48	1.35	1.39
36	1	1401	A	N9-C8	-5.47	1.33	1.37
36	1	3121	U	N1-C6	-5.47	1.33	1.38
36	5	1309	U	C2-O2	-5.47	1.17	1.22
36	5	1892	G	C5-C4	-5.47	1.34	1.38
36	5	2353	G	C6-O6	-5.47	1.19	1.24
38	8	15	G	N3-C4	-5.47	1.31	1.35
38	8	111	A	C5-C6	-5.47	1.36	1.41
36	1	916	G	C6-N1	-5.47	1.35	1.39
36	1	1186	G	C6-N1	-5.47	1.35	1.39
36	5	1894	U	N1-C6	-5.47	1.33	1.38
36	5	2117	A	C6-N1	-5.47	1.31	1.35
36	5	2886	U	N1-C6	-5.47	1.33	1.38
36	5	3047	U	C2-N3	-5.47	1.33	1.37
57	n1	107	GLU	CG-CD	5.47	1.60	1.51
36	1	2122	G	N9-C8	5.47	1.41	1.37
36	5	2159	U	N1-C2	5.47	1.43	1.38
36	5	2616	C	C4-C5	-5.47	1.38	1.43
36	1	659	G	N3-C4	-5.47	1.31	1.35
36	1	973	A	N3-C4	-5.47	1.31	1.34
36	1	1599	G	N3-C4	-5.47	1.31	1.35
36	1	2394	G	N3-C4	-5.47	1.31	1.35
36	1	2831	G	C2-N3	-5.47	1.28	1.32
1	6	615	A	N3-C4	-5.47	1.31	1.34
36	5	1156	C	P-O5'	-5.47	1.54	1.59
36	5	1157	G	N9-C8	-5.47	1.34	1.37
36	5	3180	A	C6-N1	-5.47	1.31	1.35
36	5	3194	C	N1-C6	-5.47	1.33	1.37
36	5	2382	G	N3-C4	-5.47	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2994	A	C6-N1	-5.47	1.31	1.35
36	1	522	A	C6-N1	-5.46	1.31	1.35
36	1	1522	U	C2-N3	-5.46	1.33	1.37
36	1	3226	A	N9-C4	-5.46	1.34	1.37
37	7	45	A	C6-N1	-5.46	1.31	1.35
55	m9	140	GLU	CG-CD	5.46	1.60	1.51
36	1	2821	C	C4-N4	5.46	1.38	1.33
36	5	1136	A	N9-C8	-5.46	1.33	1.37
36	5	2390	A	N9-C4	-5.46	1.34	1.37
36	5	3083	G	N9-C4	-5.46	1.33	1.38
37	7	46	A	C5-C6	-5.46	1.36	1.41
36	1	944	C	N1-C6	-5.46	1.33	1.37
1	6	1525	A	N9-C4	-5.46	1.34	1.37
40	l3	72	VAL	CA-CB	-5.46	1.43	1.54
36	1	1431	G	N1-C2	-5.46	1.33	1.37
36	1	2924	U	N1-C2	-5.46	1.33	1.38
36	1	3010	U	N1-C2	-5.46	1.33	1.38
36	5	428	A	N3-C4	-5.46	1.31	1.34
36	5	505	G	C2-N3	-5.46	1.28	1.32
36	5	2401	A	C6-N1	5.46	1.39	1.35
36	5	2916	U	C4-O4	-5.46	1.19	1.23
36	1	1362	G	N9-C4	-5.46	1.33	1.38
36	5	1186	G	P-O5'	-5.46	1.54	1.59
36	5	888	A	N7-C5	-5.45	1.35	1.39
36	5	1117	G	C6-N1	-5.45	1.35	1.39
36	5	2881	C	N1-C6	-5.45	1.33	1.37
1	2	1146	G	N7-C5	-5.45	1.35	1.39
36	1	741	U	N1-C2	-5.45	1.33	1.38
36	1	2153	U	N3-C4	-5.45	1.33	1.38
36	5	1047	A	C5-C4	-5.45	1.34	1.38
36	5	1143	A	N7-C5	-5.45	1.35	1.39
36	5	2649	A	C5-C6	-5.45	1.36	1.41
36	5	2717	U	N1-C2	-5.45	1.33	1.38
1	2	162	A	N9-C4	5.45	1.41	1.37
36	1	1310	G	N3-C4	-5.45	1.31	1.35
36	5	1195	A	C6-N1	-5.45	1.31	1.35
36	5	1594	A	N3-C4	-5.45	1.31	1.34
36	1	85	A	N9-C4	-5.45	1.34	1.37
36	5	706	A	C5-C4	-5.45	1.34	1.38
36	5	789	A	N9-C4	-5.45	1.34	1.37
36	5	2754	G	C5-C4	-5.45	1.34	1.38
36	5	925	A	C6-N1	5.45	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	1153	A	C5-C4	-5.45	1.34	1.38
36	5	2614	G	N1-C2	-5.45	1.33	1.37
36	5	2908	G	N9-C4	-5.45	1.33	1.38
36	5	2279	A	C6-N1	-5.44	1.31	1.35
36	1	2638	C	N3-C4	-5.44	1.30	1.33
36	1	3184	A	N3-C4	-5.44	1.31	1.34
38	4	20	U	N1-C2	-5.44	1.33	1.38
36	5	1177	G	C5-C4	-5.44	1.34	1.38
36	5	2934	A	N9-C4	-5.44	1.34	1.37
36	1	1306	G	C5-C6	-5.44	1.36	1.42
1	6	1638	G	N3-C4	-5.44	1.31	1.35
36	5	633	C	C5-C6	-5.44	1.29	1.34
36	5	943	U	C2-O2	-5.44	1.17	1.22
36	5	1175	C	C2-O2	-5.44	1.19	1.24
36	5	1382	G	N9-C4	-5.44	1.33	1.38
36	5	2369	G	N9-C8	-5.44	1.34	1.37
52	m6	135	TYR	CD1-CE1	-5.44	1.31	1.39
1	2	1782	A	N9-C4	-5.44	1.34	1.37
1	6	399	A	N9-C4	-5.44	1.34	1.37
36	5	2242	A	C5-C4	-5.44	1.34	1.38
37	7	39	C	C4-C5	-5.44	1.38	1.43
36	1	1513	G	N7-C5	-5.44	1.35	1.39
36	1	2107	A	C6-N1	-5.44	1.31	1.35
1	6	294	C	N1-C6	-5.44	1.33	1.37
36	5	1435	A	C6-N1	-5.44	1.31	1.35
36	1	2603	G	N7-C5	-5.44	1.35	1.39
36	1	2702	A	N7-C5	-5.44	1.35	1.39
36	5	2601	A	C5-C4	-5.44	1.34	1.38
36	1	935	U	N1-C6	-5.43	1.33	1.38
36	1	1210	U	C2-N3	-5.43	1.33	1.37
36	5	2422	C	N1-C6	-5.43	1.33	1.37
36	5	2819	A	N1-C2	-5.43	1.29	1.34
36	1	1353	U	N1-C2	5.43	1.43	1.38
36	1	958	C	N1-C6	-5.43	1.33	1.37
36	1	272	G	C2-N3	-5.43	1.28	1.32
36	1	985	U	C2-O2	-5.43	1.17	1.22
36	1	1928	G	N9-C4	-5.43	1.33	1.38
1	6	317	C	N1-C6	-5.43	1.33	1.37
4	s2	120	GLU	CG-CD	5.43	1.60	1.51
36	5	1135	A	N3-C4	-5.43	1.31	1.34
36	5	1203	A	C5-C4	-5.43	1.34	1.38
36	5	3046	A	C6-N6	-5.43	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
48	m1	157	GLU	CB-CG	5.43	1.62	1.52
36	1	2157	G	N9-C8	-5.43	1.34	1.37
36	1	2605	G	C5-C4	-5.43	1.34	1.38
36	5	804	C	C2-N3	5.43	1.40	1.35
36	5	1487	G	N7-C5	-5.43	1.35	1.39
36	1	638	C	C5-C6	-5.42	1.30	1.34
36	1	2639	G	N7-C5	-5.42	1.35	1.39
36	1	2799	A	C6-N1	-5.42	1.31	1.35
36	1	644	G	N1-C2	-5.42	1.33	1.37
36	1	934	G	N1-C2	-5.42	1.33	1.37
36	1	2954	U	N1-C6	5.42	1.42	1.38
1	6	1118	G	N3-C4	-5.42	1.31	1.35
36	5	418	A	C5-C4	-5.42	1.34	1.38
36	5	518	G	N9-C4	-5.42	1.33	1.38
38	8	44	A	N7-C5	-5.42	1.35	1.39
36	1	931	C	C4-C5	-5.42	1.38	1.43
36	1	2918	G	N7-C5	-5.42	1.35	1.39
36	5	661	G	C6-N1	-5.42	1.35	1.39
36	5	3060	C	N1-C6	-5.42	1.33	1.37
36	1	206	G	N9-C8	-5.42	1.34	1.37
36	1	2812	C	C2-O2	-5.42	1.19	1.24
1	6	407	A	C5-C6	-5.42	1.36	1.41
21	c9	144	GLU	CB-CG	5.42	1.62	1.52
36	5	1107	C	N3-C4	-5.42	1.30	1.33
36	1	512	U	C4-O4	5.42	1.27	1.23
36	1	2755	C	N1-C6	-5.42	1.33	1.37
36	1	3098	G	N1-C2	-5.42	1.33	1.37
36	5	325	A	N9-C4	-5.42	1.34	1.37
36	5	1320	C	C4-C5	-5.42	1.38	1.43
36	5	2358	A	N3-C4	-5.42	1.31	1.34
36	1	2639	G	C5-C6	-5.42	1.36	1.42
36	5	1293	U	C4-O4	-5.42	1.19	1.23
37	3	97	A	C5-C4	-5.41	1.34	1.38
1	6	1	U	N1-C2	5.41	1.43	1.38
36	5	2917	G	C2-N3	-5.41	1.28	1.32
36	1	3007	U	C2-N3	-5.41	1.33	1.37
36	1	2156	C	N3-C4	-5.41	1.30	1.33
1	6	1645	G	N9-C4	5.41	1.42	1.38
36	1	1135	A	C6-N1	-5.41	1.31	1.35
36	5	1901	A	N1-C2	-5.41	1.29	1.34
36	5	2110	G	C5-C4	-5.41	1.34	1.38
36	5	2915	U	N1-C6	-5.41	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2323	G	N9-C8	-5.41	1.34	1.37
36	1	284	A	N7-C5	-5.41	1.36	1.39
1	6	1028	C	N3-C4	-5.41	1.30	1.33
36	5	2418	G	C2-N3	5.41	1.37	1.32
1	6	746	A	C6-N1	-5.40	1.31	1.35
36	5	2343	C	C2-N3	-5.40	1.31	1.35
36	5	2936	A	N7-C5	-5.40	1.36	1.39
36	5	3310	A	N9-C8	-5.40	1.33	1.37
1	2	974	A	N9-C4	-5.40	1.34	1.37
36	1	2332	A	C5-C6	-5.40	1.36	1.41
36	1	2917	G	C5-C4	-5.40	1.34	1.38
36	5	344	A	N7-C5	-5.40	1.36	1.39
36	5	1161	G	N3-C4	-5.40	1.31	1.35
36	5	1422	G	N7-C5	-5.40	1.36	1.39
37	7	42	A	N9-C8	-5.40	1.33	1.37
1	6	28	A	C6-N1	-5.40	1.31	1.35
1	6	1655	A	N9-C4	-5.40	1.34	1.37
36	5	998	A	C6-N1	-5.40	1.31	1.35
36	5	2185	G	N3-C4	-5.40	1.31	1.35
36	1	2848	G	C5-C4	-5.40	1.34	1.38
1	6	1634	C	N1-C2	5.40	1.45	1.40
36	5	3182	G	N1-C2	-5.40	1.33	1.37
38	8	15	G	N9-C8	-5.40	1.34	1.37
36	1	93	C	C4-C5	-5.40	1.38	1.43
37	7	88	G	C5-C4	-5.40	1.34	1.38
36	1	375	A	N9-C4	-5.39	1.34	1.37
36	1	2659	G	C5-C6	-5.39	1.36	1.42
38	4	13	A	C6-N1	-5.39	1.31	1.35
36	1	333	G	C6-N1	-5.39	1.35	1.39
36	1	1295	G	N1-C2	-5.39	1.33	1.37
36	1	2803	A	C5-C4	-5.39	1.34	1.38
36	1	2958	A	C6-N1	-5.39	1.31	1.35
37	7	90	U	P-O5'	-5.39	1.54	1.59
1	2	470	A	N9-C4	-5.39	1.34	1.37
36	1	2922	G	N1-C2	-5.39	1.33	1.37
36	5	2994	A	C5-C6	-5.39	1.36	1.41
36	5	3199	G	N7-C5	-5.39	1.36	1.39
36	1	941	G	N9-C8	-5.39	1.34	1.37
36	5	66	A	N9-C4	-5.39	1.34	1.37
36	5	589	A	N9-C4	-5.39	1.34	1.37
36	5	2311	G	N3-C4	-5.39	1.31	1.35
37	7	102	A	N3-C4	-5.39	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	1003	A	C5-C6	-5.39	1.36	1.41
36	5	755	A	C5-C6	-5.39	1.36	1.41
1	2	632	U	C2-N3	-5.39	1.33	1.37
1	2	1322	A	N9-C4	-5.39	1.34	1.37
36	1	2229	A	C5-C6	-5.39	1.36	1.41
36	5	1025	A	N9-C4	5.39	1.41	1.37
36	5	423	A	N3-C4	-5.38	1.31	1.34
36	5	2933	A	N7-C5	-5.38	1.36	1.39
1	2	1795	U	N1-C2	5.38	1.43	1.38
1	6	1631	A	C5-C4	-5.38	1.34	1.38
36	5	1060	U	C4-O4	-5.38	1.19	1.23
36	5	1881	A	N7-C5	-5.38	1.36	1.39
36	5	2367	A	C5-C6	-5.38	1.36	1.41
76	q0	115	CYS	CB-SG	-5.38	1.73	1.81
36	1	920	A	C5-C4	-5.38	1.34	1.38
36	1	1341	U	C4-C5	-5.38	1.38	1.43
36	1	2988	C	C2-N3	-5.38	1.31	1.35
36	5	1376	C	N1-C6	-5.38	1.33	1.37
36	5	2637	A	C5-C4	-5.38	1.34	1.38
1	6	100	A	N9-C4	-5.38	1.34	1.37
36	5	984	G	C5-C4	-5.38	1.34	1.38
36	5	1178	G	C5-C4	-5.38	1.34	1.38
36	5	1304	A	P-O5'	-5.38	1.54	1.59
36	5	2348	A	N3-C4	-5.38	1.31	1.34
36	1	3049	A	C5-C4	-5.37	1.34	1.38
36	1	1402	C	N1-C6	-5.37	1.33	1.37
36	1	2344	U	C2-N3	-5.37	1.33	1.37
36	5	969	C	N1-C2	-5.37	1.34	1.40
44	17	78	GLU	CG-CD	5.37	1.60	1.51
36	1	3049	A	N9-C8	-5.37	1.33	1.37
1	6	1547	A	C5-C6	-5.37	1.36	1.41
1	6	1610	G	C8-N7	-5.37	1.27	1.30
36	5	1443	G	N9-C4	-5.37	1.33	1.38
36	1	677	A	C5-C4	-5.37	1.34	1.38
36	1	1440	G	C6-N1	-5.37	1.35	1.39
36	1	3141	A	N9-C4	-5.37	1.34	1.37
37	3	10	C	C4-C5	-5.37	1.38	1.43
37	3	25	G	C6-N1	-5.37	1.35	1.39
38	4	4	C	C2-O2	-5.37	1.19	1.24
1	6	1460	A	N9-C4	-5.37	1.34	1.37
36	5	40	A	N3-C4	-5.37	1.31	1.34
36	1	1613	A	N9-C4	-5.37	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2259	A	C5-C6	-5.37	1.36	1.41
36	5	2641	U	N1-C6	-5.37	1.33	1.38
36	1	1296	C	N3-C4	-5.37	1.30	1.33
36	1	2423	U	C2-N3	5.37	1.41	1.37
36	5	1461	A	C5-C4	-5.37	1.34	1.38
36	5	2411	U	C2-O2	-5.37	1.17	1.22
37	7	25	G	C6-O6	-5.37	1.19	1.24
37	7	99	G	N9-C4	-5.37	1.33	1.38
1	2	7	G	N7-C5	-5.36	1.36	1.39
36	1	2143	A	C5-C6	-5.36	1.36	1.41
36	1	3244	A	C5-C6	-5.36	1.36	1.41
36	5	2631	U	N1-C2	-5.36	1.33	1.38
36	1	2880	U	C2-N3	-5.36	1.33	1.37
36	1	365	A	C6-N1	-5.36	1.31	1.35
36	1	949	C	N1-C6	-5.36	1.33	1.37
36	1	1911	A	C5-C4	-5.36	1.34	1.38
1	6	415	C	N3-C4	-5.36	1.30	1.33
1	6	815	G	N9-C4	-5.36	1.33	1.38
36	5	981	U	N1-C6	5.36	1.42	1.38
36	5	1332	A	C8-N7	-5.36	1.27	1.31
36	5	2956	A	C6-N6	-5.36	1.29	1.33
36	5	3272	C	N1-C6	-5.36	1.33	1.37
36	1	1460	A	N3-C4	-5.36	1.31	1.34
37	3	89	G	N9-C8	-5.36	1.34	1.37
36	5	916	G	C5-C4	-5.36	1.34	1.38
36	5	917	A	C5-C4	-5.36	1.35	1.38
36	5	1153	A	C5-C6	-5.36	1.36	1.41
36	5	1200	A	C6-N1	-5.36	1.31	1.35
36	5	2255	A	C5-C4	-5.36	1.34	1.38
46	19	181	VAL	CB-CG2	-5.36	1.41	1.52
52	m6	40	GLU	CD-OE2	5.36	1.31	1.25
36	1	1135	A	N7-C5	-5.36	1.36	1.39
36	1	1349	G	N9-C4	5.36	1.42	1.38
36	1	1915	A	N3-C4	-5.36	1.31	1.34
36	1	2146	C	N1-C6	-5.36	1.33	1.37
1	6	1580	C	N1-C6	-5.36	1.33	1.37
36	5	1062	A	C5-C6	-5.36	1.36	1.41
36	5	1860	G	C6-N1	-5.36	1.35	1.39
36	5	2167	A	N3-C4	-5.36	1.31	1.34
36	1	205	C	N1-C6	-5.35	1.33	1.37
1	6	1004	U	N3-C4	-5.35	1.33	1.38
36	5	3314	A	N7-C5	-5.35	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1133	A	N3-C4	-5.35	1.31	1.34
36	1	1175	C	N1-C2	-5.35	1.34	1.40
36	5	2317	A	N3-C4	-5.35	1.31	1.34
36	5	2996	U	C2-O2	5.35	1.27	1.22
36	5	3211	C	N1-C6	-5.35	1.33	1.37
36	1	1886	A	C2-N3	-5.35	1.28	1.33
36	1	3175	U	N1-C2	5.35	1.43	1.38
38	8	14	C	N1-C2	-5.35	1.34	1.40
40	13	358	TRP	CB-CG	-5.35	1.40	1.50
36	1	402	A	C6-N6	-5.35	1.29	1.33
36	5	353	G	N9-C4	-5.35	1.33	1.38
36	5	400	G	N9-C4	-5.35	1.33	1.38
36	5	1056	U	N1-C2	5.35	1.43	1.38
36	5	1085	A	C5-C6	-5.35	1.36	1.41
37	7	45	A	N7-C5	5.35	1.42	1.39
1	6	1117	U	N1-C2	-5.35	1.33	1.38
36	1	411	U	N1-C2	-5.34	1.33	1.38
36	1	1836	C	N1-C6	-5.34	1.33	1.37
1	6	1004	U	C2-N3	-5.34	1.34	1.37
36	5	916	G	N7-C5	-5.34	1.36	1.39
36	5	2387	A	N9-C4	-5.34	1.34	1.37
36	5	1099	A	N3-C4	-5.34	1.31	1.34
36	5	2995	A	N3-C4	-5.34	1.31	1.34
36	1	2357	A	C3'-C2'	-5.34	1.46	1.52
36	1	3125	U	C2-N3	-5.34	1.34	1.37
36	1	3127	A	C6-N1	-5.34	1.31	1.35
36	1	3341	U	N1-C2	5.34	1.43	1.38
1	6	1100	G	N9-C8	-5.34	1.34	1.37
1	6	1778	G	N9-C4	-5.34	1.33	1.38
36	5	1117	G	C6-O6	-5.34	1.19	1.24
36	5	2304	C	N1-C6	-5.34	1.33	1.37
37	7	95	A	N9-C8	-5.34	1.33	1.37
36	5	888	A	N3-C4	-5.34	1.31	1.34
36	5	2202	C	N1-C6	-5.34	1.33	1.37
36	5	2722	U	C4-C5	-5.34	1.38	1.43
36	5	2982	A	N9-C4	-5.34	1.34	1.37
36	5	3090	U	C4-C5	-5.34	1.38	1.43
37	7	83	U	C4-O4	-5.34	1.19	1.23
36	5	2902	A	C6-N1	-5.34	1.31	1.35
36	1	960	U	N1-C2	5.34	1.43	1.38
1	6	1322	A	N9-C4	-5.34	1.34	1.37
1	6	1610	G	N7-C5	-5.34	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	1780	G	C8-N7	-5.34	1.27	1.30
36	5	1175	C	N1-C2	-5.34	1.34	1.40
36	5	3257	C	N3-C4	-5.34	1.30	1.33
37	7	112	G	N1-C2	-5.34	1.33	1.37
37	7	13	A	N7-C5	-5.33	1.36	1.39
36	1	2972	G	N3-C4	-5.33	1.31	1.35
1	6	1780	G	N7-C5	-5.33	1.36	1.39
36	5	1337	A	C6-N1	-5.33	1.31	1.35
36	5	1451	C	N3-C4	-5.33	1.30	1.33
36	5	2639	G	N9-C4	-5.33	1.33	1.38
36	1	2955	U	N1-C2	5.33	1.43	1.38
1	6	1309	C	N1-C6	-5.33	1.33	1.37
36	5	277	G	N3-C4	-5.33	1.31	1.35
36	5	916	G	C8-N7	-5.33	1.27	1.30
36	5	1185	C	N3-C4	-5.33	1.30	1.33
36	5	1369	A	N7-C5	-5.33	1.36	1.39
52	m6	34	VAL	CB-CG1	-5.33	1.41	1.52
36	1	1794	G	N9-C8	-5.33	1.34	1.37
52	m6	75	ALA	CA-CB	-5.33	1.41	1.52
1	2	397	A	N9-C4	-5.33	1.34	1.37
36	1	70	A	C5-C4	-5.33	1.35	1.38
36	1	537	A	N9-C4	-5.33	1.34	1.37
36	1	1102	A	N9-C4	-5.33	1.34	1.37
36	5	951	A	C6-N6	-5.33	1.29	1.33
1	6	1652	C	N1-C6	-5.33	1.33	1.37
36	1	499	G	C2-N3	-5.33	1.28	1.32
36	1	1154	A	C5-C6	-5.33	1.36	1.41
37	3	46	A	N9-C4	-5.33	1.34	1.37
1	6	408	C	N1-C2	-5.33	1.34	1.40
52	m6	4	GLU	CD-OE2	5.33	1.31	1.25
1	2	550	A	N7-C5	-5.32	1.36	1.39
36	1	367	A	N3-C4	-5.32	1.31	1.34
36	5	353	G	C5-C4	-5.32	1.34	1.38
36	5	1604	G	C6-N1	-5.32	1.35	1.39
36	5	3332	U	N1-C2	-5.32	1.33	1.38
37	7	104	A	N7-C5	-5.32	1.36	1.39
46	19	27	VAL	CB-CG2	-5.32	1.41	1.52
36	1	2419	A	N9-C4	-5.32	1.34	1.37
36	5	2212	C	N1-C2	5.32	1.45	1.40
36	5	952	A	N9-C4	-5.32	1.34	1.37
38	8	138	A	N7-C5	-5.32	1.36	1.39
36	1	2877	G	C6-N1	-5.32	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	551	G	N3-C4	-5.32	1.31	1.35
36	1	952	A	N7-C5	-5.32	1.36	1.39
1	6	441	A	N9-C8	-5.32	1.33	1.37
1	6	1521	G	C5-C4	-5.32	1.34	1.38
1	6	1556	A	C5-C6	-5.32	1.36	1.41
36	1	2159	U	N3-C4	5.32	1.43	1.38
36	1	2834	G	C2-N3	-5.32	1.28	1.32
38	4	89	A	N9-C4	-5.32	1.34	1.37
36	5	1140	G	N9-C8	-5.32	1.34	1.37
36	5	3115	C	N1-C2	-5.32	1.34	1.40
36	1	1134	G	C6-N1	-5.31	1.35	1.39
1	6	48	G	N3-C4	-5.31	1.31	1.35
1	2	1119	G	C6-N1	-5.31	1.35	1.39
36	1	1893	A	N9-C4	-5.31	1.34	1.37
36	5	2234	G	C5-C4	-5.31	1.34	1.38
36	5	2658	G	C6-N1	-5.31	1.35	1.39
36	5	2718	U	C2-N3	-5.31	1.34	1.37
36	5	3124	G	N7-C5	-5.31	1.36	1.39
37	7	89	G	C8-N7	-5.31	1.27	1.30
59	n3	96	GLU	CG-CD	5.31	1.59	1.51
36	1	3197	G	N9-C4	-5.31	1.33	1.38
36	1	2619	G	C8-N7	-5.31	1.27	1.30
36	1	2896	A	N7-C5	-5.31	1.36	1.39
36	1	2918	G	C5-C4	-5.31	1.34	1.38
36	5	2339	C	N1-C6	-5.31	1.33	1.37
36	5	2971	A	N9-C4	5.31	1.41	1.37
36	1	2164	A	C5-C4	-5.31	1.35	1.38
36	5	1051	U	N1-C2	-5.31	1.33	1.38
36	5	2329	C	N1-C2	-5.31	1.34	1.40
36	5	1366	A	N3-C4	-5.31	1.31	1.34
36	5	3037	U	N1-C2	-5.31	1.33	1.38
36	1	44	U	C5'-C4'	-5.30	1.45	1.51
36	1	2939	G	N9-C4	5.30	1.42	1.38
50	m4	66	THR	CA-CB	-5.30	1.39	1.53
1	2	1139	A	N9-C4	-5.30	1.34	1.37
36	1	881	C	N3-C4	-5.30	1.30	1.33
1	6	755	A	C5-C6	-5.30	1.36	1.41
1	6	1399	C	N1-C6	5.30	1.40	1.37
1	6	1629	G	C6-N1	-5.30	1.35	1.39
36	5	360	G	N3-C4	-5.30	1.31	1.35
36	5	644	G	C6-N1	-5.30	1.35	1.39
36	5	1307	G	N9-C4	-5.30	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2938	G	N9-C8	-5.30	1.34	1.37
36	1	896	A	N7-C5	-5.30	1.36	1.39
1	6	751	G	N9-C4	-5.30	1.33	1.38
36	5	588	G	N1-C2	-5.30	1.33	1.37
36	5	3049	A	N3-C4	-5.30	1.31	1.34
36	1	943	U	N3-C4	-5.30	1.33	1.38
36	1	2918	G	N9-C8	-5.30	1.34	1.37
1	6	609	U	N1-C6	-5.30	1.33	1.38
36	1	583	G	N1-C2	-5.30	1.33	1.37
36	5	2707	C	C4-C5	-5.30	1.38	1.43
36	1	2283	G	C2-N3	-5.29	1.28	1.32
36	5	1203	A	N9-C4	-5.29	1.34	1.37
36	5	2307	G	C5-C6	-5.29	1.37	1.42
36	5	2930	A	N9-C4	-5.29	1.34	1.37
36	5	2316	G	N1-C2	-5.29	1.33	1.37
36	1	2801	A	N3-C4	-5.29	1.31	1.34
36	5	983	A	N9-C4	-5.29	1.34	1.37
36	5	1188	U	C2-N3	-5.29	1.34	1.37
36	1	937	G	N3-C4	-5.29	1.31	1.35
36	5	1295	G	N7-C5	-5.29	1.36	1.39
36	5	1432	C	C2-N3	-5.29	1.31	1.35
36	5	1545	A	N7-C5	-5.29	1.36	1.39
36	5	2659	G	C5-C6	-5.29	1.37	1.42
36	5	2906	C	N3-C4	5.29	1.37	1.33
36	1	1656	A	N3-C4	-5.29	1.31	1.34
1	6	152	U	N1-C2	-5.29	1.33	1.38
36	5	1296	C	C2-O2	-5.29	1.19	1.24
36	5	1430	U	C2-N3	-5.29	1.34	1.37
36	5	1865	A	C5-C6	-5.29	1.36	1.41
36	5	2397	A	N7-C5	-5.29	1.36	1.39
36	5	3063	C	N1-C6	-5.29	1.33	1.37
36	1	372	A	N7-C5	-5.28	1.36	1.39
36	1	574	U	N1-C2	-5.28	1.33	1.38
36	1	887	G	C6-O6	-5.28	1.19	1.24
36	1	1400	G	C5-C4	-5.28	1.34	1.38
36	1	3011	A	N9-C8	-5.28	1.33	1.37
36	5	1374	G	C5-C4	-5.28	1.34	1.38
36	5	2916	U	C2-O2	5.28	1.27	1.22
1	6	678	A	N9-C4	5.28	1.41	1.37
36	5	2611	U	N1-C2	-5.28	1.33	1.38
36	1	654	C	C2-N3	-5.28	1.31	1.35
36	1	2386	A	C6-N1	-5.28	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3221	C	N1-C6	-5.28	1.33	1.37
1	6	103	A	C5-C6	-5.28	1.36	1.41
1	6	1491	U	C2-N3	5.28	1.41	1.37
36	5	1085	A	N7-C5	-5.28	1.36	1.39
36	5	1435	A	C5-C4	-5.28	1.35	1.38
36	5	2834	G	C5-C4	-5.28	1.34	1.38
36	5	2341	A	C6-N6	-5.28	1.29	1.33
36	5	2375	G	C2-N3	-5.28	1.28	1.32
1	2	1084	A	C5-C4	-5.28	1.35	1.38
36	1	985	U	N1-C2	-5.28	1.33	1.38
36	1	3141	A	N7-C5	-5.28	1.36	1.39
1	6	407	A	N9-C4	-5.28	1.34	1.37
1	6	1100	G	C5-C4	-5.28	1.34	1.38
1	6	1768	G	C2-N3	-5.28	1.28	1.32
36	5	1889	G	N7-C5	-5.28	1.36	1.39
36	5	3295	A	C5-C4	-5.28	1.35	1.38
37	7	25	G	N1-C2	-5.28	1.33	1.37
36	1	2399	A	C5-C6	-5.27	1.36	1.41
36	1	3260	G	N7-C5	-5.27	1.36	1.39
1	6	139	C	N3-C4	-5.27	1.30	1.33
36	5	1161	G	N9-C4	-5.27	1.33	1.38
36	1	220	G	N9-C8	-5.27	1.34	1.37
36	1	409	A	N9-C4	-5.27	1.34	1.37
36	1	2121	G	C5-C6	5.27	1.47	1.42
36	1	2370	G	N9-C8	-5.27	1.34	1.37
36	5	1288	U	C2-N3	-5.27	1.34	1.37
36	5	3144	G	N1-C2	-5.27	1.33	1.37
37	7	51	A	N7-C5	-5.27	1.36	1.39
1	6	1445	G	N9-C4	-5.27	1.33	1.38
36	5	1173	U	C2-N3	-5.27	1.34	1.37
36	5	2691	A	N9-C4	-5.27	1.34	1.37
36	1	2905	U	N1-C2	-5.27	1.33	1.38
1	6	1418	G	C6-O6	5.27	1.28	1.24
36	5	2298	U	N1-C6	-5.27	1.33	1.38
36	5	3179	U	N1-C6	-5.27	1.33	1.38
36	1	74	G	C6-N1	-5.27	1.35	1.39
36	1	200	C	N3-C4	-5.27	1.30	1.33
36	1	2376	G	C6-N1	-5.27	1.35	1.39
36	1	2819	A	N1-C2	-5.27	1.29	1.34
52	M6	100	GLU	CD-OE1	5.27	1.31	1.25
36	5	1915	A	C6-N1	-5.27	1.31	1.35
36	5	2368	A	N7-C5	-5.27	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2912	G	N3-C4	-5.27	1.31	1.35
1	6	1031	U	C2-N3	-5.27	1.34	1.37
36	5	1040	A	N3-C4	-5.27	1.31	1.34
36	5	3275	U	C2-N3	5.27	1.41	1.37
36	5	595	G	C8-N7	-5.26	1.27	1.30
36	5	1310	G	C5-C4	-5.26	1.34	1.38
36	5	3125	U	N3-C4	-5.26	1.33	1.38
37	7	94	C	N3-C4	-5.26	1.30	1.33
36	5	521	A	N7-C5	-5.26	1.36	1.39
36	5	1184	A	N3-C4	-5.26	1.31	1.34
1	2	597	G	C5-C6	-5.26	1.37	1.42
36	1	2643	A	N9-C4	-5.26	1.34	1.37
36	5	1843	C	N1-C6	-5.26	1.33	1.37
36	5	3058	U	N1-C2	-5.26	1.33	1.38
36	1	712	G	N9-C8	-5.26	1.34	1.37
36	1	2843	U	N1-C2	5.26	1.43	1.38
37	3	79	A	N9-C4	-5.26	1.34	1.37
1	6	78	A	C6-N1	-5.26	1.31	1.35
1	6	1543	A	C6-N1	-5.26	1.31	1.35
36	5	2636	A	N9-C4	-5.26	1.34	1.37
1	2	577	G	C5-C6	-5.26	1.37	1.42
36	1	433	A	N9-C4	-5.26	1.34	1.37
36	1	2938	G	C8-N7	-5.26	1.27	1.30
36	5	654	C	C2-O2	-5.26	1.19	1.24
36	5	3310	A	C8-N7	-5.26	1.27	1.31
36	5	3326	G	N9-C8	-5.26	1.34	1.37
36	5	884	A	C8-N7	-5.26	1.27	1.31
36	5	920	A	C6-N1	-5.26	1.31	1.35
36	5	2954	U	C4-C5	5.26	1.48	1.43
36	1	3140	G	C5-C6	-5.25	1.37	1.42
36	5	3096	C	N3-C4	-5.25	1.30	1.33
36	1	334	A	C6-N6	-5.25	1.29	1.33
36	5	796	U	C2-N3	-5.25	1.34	1.37
36	5	1183	C	C4-C5	-5.25	1.38	1.43
36	5	2644	C	N3-C4	-5.25	1.30	1.33
1	2	1589	C	N3-C4	-5.25	1.30	1.33
36	1	1207	G	C5-C6	-5.25	1.37	1.42
36	1	2963	C	C4-C5	-5.25	1.38	1.43
36	5	2100	A	N9-C4	5.25	1.41	1.37
36	5	2320	A	N3-C4	-5.25	1.31	1.34
36	5	2858	U	N1-C6	-5.25	1.33	1.38
36	1	41	G	N7-C5	-5.25	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3009	G	C5-C6	-5.25	1.37	1.42
36	5	2705	A	C6-N6	-5.25	1.29	1.33
37	7	26	C	N1-C2	5.25	1.45	1.40
36	1	1891	A	C6-N1	-5.25	1.31	1.35
59	N3	52	ALA	CA-CB	-5.25	1.41	1.52
36	5	944	C	C2-N3	-5.25	1.31	1.35
36	5	1892	G	N9-C8	-5.25	1.34	1.37
1	2	983	A	N9-C4	5.25	1.41	1.37
36	1	368	G	C6-N1	-5.25	1.35	1.39
36	1	751	A	N7-C5	-5.25	1.36	1.39
36	1	2385	G	P-O5'	-5.25	1.54	1.59
38	4	53	A	C5-C4	-5.25	1.35	1.38
1	6	147	A	C5-C6	-5.25	1.36	1.41
36	5	1059	G	N3-C4	-5.25	1.31	1.35
36	5	1891	A	N3-C4	-5.25	1.31	1.34
36	1	994	G	C6-N1	-5.24	1.35	1.39
36	5	951	A	C5-C4	-5.24	1.35	1.38
36	5	990	U	C4-O4	-5.24	1.19	1.23
36	5	2262	A	C5-C6	-5.24	1.36	1.41
36	5	2697	A	C5-C4	-5.24	1.35	1.38
36	5	3177	G	C6-N1	-5.24	1.35	1.39
36	1	899	U	N3-C4	-5.24	1.33	1.38
36	1	2627	C	N1-C2	-5.24	1.34	1.40
37	7	86	U	N1-C2	-5.24	1.33	1.38
1	2	1375	A	N9-C4	-5.24	1.34	1.37
36	1	627	U	N1-C2	-5.24	1.33	1.38
1	6	1403	C	N1-C6	-5.24	1.34	1.37
36	5	2799	A	C6-N1	-5.24	1.31	1.35
36	1	2805	G	C5-C4	-5.24	1.34	1.38
36	1	3147	G	N3-C4	-5.24	1.31	1.35
36	5	1311	G	N7-C5	-5.24	1.36	1.39
36	5	2381	G	C5-C4	-5.24	1.34	1.38
36	5	2328	U	C4-O4	-5.24	1.19	1.23
1	2	529	A	N9-C4	-5.24	1.34	1.37
36	1	1299	U	N1-C2	-5.24	1.33	1.38
36	1	2761	G	N7-C5	-5.24	1.36	1.39
1	6	865	A	C5-C4	-5.24	1.35	1.38
36	5	3103	A	N9-C4	-5.24	1.34	1.37
59	n3	53	SER	CA-CB	-5.24	1.45	1.52
36	1	573	C	N3-C4	-5.23	1.30	1.33
1	6	332	U	C2-N3	-5.23	1.34	1.37
1	6	1537	C	N3-C4	5.23	1.37	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3299	A	N9-C4	-5.23	1.34	1.37
36	5	1290	A	N7-C5	-5.23	1.36	1.39
36	5	1386	A	N9-C4	-5.23	1.34	1.37
36	5	2167	A	N9-C4	-5.23	1.34	1.37
36	5	3118	C	C4-C5	-5.23	1.38	1.43
36	5	357	A	N3-C4	-5.23	1.31	1.34
36	5	629	U	N1-C2	-5.23	1.33	1.38
36	5	2967	A	N7-C5	-5.23	1.36	1.39
36	1	1171	G	C6-N1	-5.23	1.35	1.39
36	1	2894	C	N1-C6	-5.23	1.34	1.37
36	5	21	G	N9-C4	-5.23	1.33	1.38
36	5	1401	A	C5-C4	-5.23	1.35	1.38
36	5	2688	U	N1-C6	-5.23	1.33	1.38
37	7	49	G	C6-O6	5.23	1.28	1.24
36	1	635	G	C5-C4	-5.23	1.34	1.38
36	1	1153	A	C6-N1	-5.23	1.31	1.35
1	6	1658	G	N9-C4	-5.23	1.33	1.38
36	5	816	A	N9-C4	5.23	1.41	1.37
36	5	1884	A	N3-C4	-5.23	1.31	1.34
37	7	2	G	C6-N1	-5.23	1.35	1.39
36	1	2377	G	C5-C6	-5.22	1.37	1.42
36	1	2404	A	N1-C2	5.22	1.39	1.34
36	5	583	G	C5-C6	-5.22	1.37	1.42
36	5	1431	G	C5-C6	-5.22	1.37	1.42
36	5	2611	U	N1-C6	-5.22	1.33	1.38
36	1	1410	U	C4-C5	-5.22	1.38	1.43
1	6	788	A	N3-C4	-5.22	1.31	1.34
36	5	501	A	C6-N1	-5.22	1.31	1.35
36	5	3033	A	N7-C5	-5.22	1.36	1.39
36	5	2694	A	N9-C4	-5.22	1.34	1.37
36	1	1456	A	N9-C4	-5.22	1.34	1.37
36	1	1657	C	N1-C6	-5.22	1.34	1.37
1	6	383	G	N7-C5	-5.22	1.36	1.39
36	5	668	G	C6-N1	-5.22	1.35	1.39
36	5	2931	C	N3-C4	-5.22	1.30	1.33
36	1	1481	A	N7-C5	-5.22	1.36	1.39
1	2	1650	U	N1-C2	-5.22	1.33	1.38
36	1	2872	A	N9-C4	5.22	1.41	1.37
36	1	2930	A	C5-C4	-5.22	1.35	1.38
1	6	331	A	N7-C5	-5.22	1.36	1.39
36	5	523	A	N7-C5	-5.22	1.36	1.39
36	5	1456	A	N7-C5	-5.22	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	8	G	C6-N1	-5.22	1.35	1.39
53	m7	4	TYR	CD1-CE1	-5.22	1.31	1.39
36	1	2800	G	C5-C6	-5.21	1.37	1.42
36	1	2991	A	N7-C5	-5.21	1.36	1.39
36	5	595	G	N7-C5	-5.21	1.36	1.39
36	5	788	C	N3-C4	-5.21	1.30	1.33
36	5	1149	G	N7-C5	-5.21	1.36	1.39
38	8	133	G	C5-C4	-5.21	1.34	1.38
36	5	1468	A	N9-C4	-5.21	1.34	1.37
36	1	2389	C	N3-C4	-5.21	1.30	1.33
36	1	2631	U	C2-N3	-5.21	1.34	1.37
1	6	1670	G	N9-C8	-5.21	1.34	1.37
37	7	24	A	C6-N6	-5.21	1.29	1.33
65	n9	16	ALA	CA-CB	-5.21	1.41	1.52
36	1	2521	U	C2-N3	-5.21	1.34	1.37
36	5	3017	A	N3-C4	-5.21	1.31	1.34
48	m1	157	GLU	CG-CD	5.21	1.59	1.51
36	1	1658	G	N3-C4	-5.21	1.31	1.35
36	1	2307	G	C5-C4	-5.21	1.34	1.38
36	1	2318	U	C4-O4	-5.21	1.19	1.23
36	1	2641	U	C5-C6	-5.21	1.29	1.34
36	1	3135	U	N3-C4	-5.21	1.33	1.38
36	5	1299	U	N1-C2	-5.21	1.33	1.38
36	5	1846	C	P-O5'	-5.21	1.54	1.59
36	1	860	G	C5-C4	-5.21	1.34	1.38
1	6	1584	G	N9-C8	-5.21	1.34	1.37
37	7	5	G	N1-C2	-5.21	1.33	1.37
52	m6	166	GLU	CG-CD	5.21	1.59	1.51
36	1	1446	A	N7-C5	-5.21	1.36	1.39
36	5	3094	A	C5-C6	-5.21	1.36	1.41
36	1	715	A	N3-C4	-5.20	1.31	1.34
36	1	2826	U	N1-C2	-5.20	1.33	1.38
36	1	2914	G	C6-N1	-5.20	1.35	1.39
1	6	307	G	C6-N1	-5.20	1.35	1.39
1	6	1086	A	C6-N1	-5.20	1.31	1.35
36	5	3373	U	N3-C4	-5.20	1.33	1.38
36	1	2187	G	N1-C2	-5.20	1.33	1.37
1	6	1504	G	C6-N1	-5.20	1.35	1.39
36	1	1061	A	C8-N7	-5.20	1.27	1.31
36	1	1141	C	N3-C4	-5.20	1.30	1.33
36	5	1190	A	C5-C6	-5.20	1.36	1.41
36	5	1851	G	C2-N3	-5.20	1.28	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2690	G	N3-C4	-5.20	1.31	1.35
36	1	2371	G	C5-C4	-5.20	1.34	1.38
1	6	1194	A	N3-C4	-5.20	1.31	1.34
36	5	1128	U	N3-C4	-5.20	1.33	1.38
36	5	2299	A	N3-C4	-5.20	1.31	1.34
36	5	2629	U	N1-C6	-5.20	1.33	1.38
36	5	2821	C	C2-O2	5.20	1.29	1.24
36	5	3005	A	N9-C4	-5.20	1.34	1.37
1	2	1750	A	N7-C5	-5.20	1.36	1.39
36	1	1120	A	C5-C4	-5.20	1.35	1.38
36	1	1411	C	N1-C6	-5.20	1.34	1.37
36	1	3197	G	C2-N3	-5.20	1.28	1.32
36	5	906	A	N3-C4	-5.20	1.31	1.34
36	1	2805	G	N1-C2	-5.20	1.33	1.37
1	6	320	U	C2-O2	5.20	1.27	1.22
36	5	1375	G	N7-C5	-5.20	1.36	1.39
36	5	2391	G	N9-C8	-5.20	1.34	1.37
36	5	2703	A	C5-C4	-5.19	1.35	1.38
36	1	3135	U	N1-C6	-5.19	1.33	1.38
36	5	651	G	N9-C8	-5.19	1.34	1.37
36	5	2309	A	N9-C4	-5.19	1.34	1.37
36	1	433	A	C5-C4	-5.19	1.35	1.38
36	1	1143	A	C6-N1	-5.19	1.31	1.35
1	6	1116	A	C6-N1	-5.19	1.31	1.35
1	6	1781	A	N7-C5	-5.19	1.36	1.39
36	1	1404	G	N9-C4	-5.19	1.33	1.38
1	2	1659	A	C6-N1	-5.19	1.31	1.35
36	1	33	G	C6-N1	-5.19	1.35	1.39
36	1	643	U	C4-C5	-5.19	1.38	1.43
36	1	987	U	N1-C2	-5.19	1.33	1.38
36	1	1156	C	C4-C5	-5.19	1.38	1.43
36	1	3206	C	N1-C2	-5.19	1.34	1.40
1	6	1537	C	C2-O2	5.19	1.29	1.24
36	5	512	U	N1-C6	-5.19	1.33	1.38
36	1	2125	A	N9-C4	-5.19	1.34	1.37
36	1	1123	U	N1-C2	-5.18	1.33	1.38
36	5	523	A	C5-C4	-5.18	1.35	1.38
36	5	2177	G	C6-O6	-5.18	1.19	1.24
37	7	99	G	N9-C8	-5.18	1.34	1.37
36	1	144	A	N3-C4	-5.18	1.31	1.34
43	L6	59	GLU	CD-OE2	5.18	1.31	1.25
1	6	796	A	N9-C4	-5.18	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	998	A	C6-N1	-5.18	1.31	1.35
1	6	1800	A	N9-C4	5.18	1.41	1.37
36	5	569	A	C5-C6	-5.18	1.36	1.41
36	5	718	G	N7-C5	-5.18	1.36	1.39
36	5	1431	G	C5-C4	-5.18	1.34	1.38
1	6	1152	A	N3-C4	-5.18	1.31	1.34
1	6	1750	A	N7-C5	-5.18	1.36	1.39
38	8	57	C	N3-C4	-5.18	1.30	1.33
36	1	1372	C	N1-C6	-5.18	1.34	1.37
36	1	2356	A	C5-C6	-5.18	1.36	1.41
1	6	1602	C	N3-C4	-5.18	1.30	1.33
36	5	1784	G	N9-C8	-5.18	1.34	1.37
36	5	2375	G	C5-C4	-5.18	1.34	1.38
57	n1	149	GLN	CG-CD	5.18	1.62	1.51
36	1	557	A	N9-C4	-5.18	1.34	1.37
1	6	326	G	N7-C5	-5.18	1.36	1.39
36	5	3015	G	N9-C8	-5.18	1.34	1.37
36	1	2888	U	N1-C6	-5.18	1.33	1.38
1	6	441	A	C5-C4	-5.18	1.35	1.38
1	6	859	A	N9-C4	-5.18	1.34	1.37
36	5	2947	G	C5-C6	-5.18	1.37	1.42
1	2	1739	C	N1-C2	-5.17	1.34	1.40
36	1	890	C	C2-N3	-5.17	1.31	1.35
36	1	1303	A	N3-C4	-5.17	1.31	1.34
1	6	152	U	N3-C4	-5.17	1.33	1.38
36	5	811	U	N1-C6	-5.17	1.33	1.38
36	5	2144	A	N9-C4	5.17	1.41	1.37
36	1	1046	A	N7-C5	-5.17	1.36	1.39
48	M1	52	TYR	CD1-CE1	-5.17	1.31	1.39
36	5	518	G	N7-C5	-5.17	1.36	1.39
36	5	587	U	C4'-C3'	-5.17	1.47	1.52
36	5	595	G	N9-C8	-5.17	1.34	1.37
36	5	3392	U	C2-N3	-5.17	1.34	1.37
38	8	7	U	N1-C2	-5.17	1.33	1.38
1	2	1524	A	N7-C5	-5.17	1.36	1.39
36	1	612	U	C2-O2	-5.17	1.17	1.22
36	5	904	A	C5-C6	-5.17	1.36	1.41
36	5	2157	G	N9-C4	-5.17	1.33	1.38
36	5	2197	C	C5-C6	-5.17	1.30	1.34
36	1	973	A	C6-N1	-5.17	1.31	1.35
36	1	1411	C	C4-N4	-5.17	1.29	1.33
76	Q0	110	CYS	CB-SG	-5.17	1.73	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	651	G	N3-C4	-5.17	1.31	1.35
36	1	646	A	C6-N1	-5.17	1.31	1.35
36	1	2941	A	N9-C4	5.17	1.41	1.37
43	L6	104	GLU	CD-OE1	5.17	1.31	1.25
36	5	799	G	C5-C4	-5.17	1.34	1.38
36	5	869	G	N3-C4	-5.17	1.31	1.35
36	5	1794	G	N3-C4	-5.17	1.31	1.35
36	5	2647	A	C5-C6	-5.17	1.36	1.41
36	1	2388	U	N1-C6	-5.17	1.33	1.38
61	N5	86	VAL	CB-CG1	-5.17	1.42	1.52
36	5	1300	G	N3-C4	-5.17	1.31	1.35
36	5	2399	A	N9-C4	-5.17	1.34	1.37
36	1	433	A	C5-C6	-5.17	1.36	1.41
1	6	1467	C	C4-C5	-5.17	1.38	1.43
36	5	820	A	N3-C4	-5.17	1.31	1.34
36	5	2731	U	N1-C6	-5.17	1.33	1.38
59	n3	68	GLU	CD-OE2	5.17	1.31	1.25
1	2	433	C	N1-C6	-5.16	1.34	1.37
1	2	440	U	N1-C2	-5.16	1.33	1.38
1	2	1658	G	C6-N1	-5.16	1.35	1.39
36	1	358	G	C5-C4	-5.16	1.34	1.38
36	1	1608	C	N3-C4	-5.16	1.30	1.33
36	1	2297	U	C2-O2	-5.16	1.17	1.22
38	4	4	C	N1-C6	-5.16	1.34	1.37
36	5	425	G	C6-N1	-5.16	1.35	1.39
36	5	1139	G	C6-N1	-5.16	1.35	1.39
36	5	3382	U	C2-N3	5.16	1.41	1.37
36	5	2631	U	C4-C5	-5.16	1.39	1.43
36	1	2387	A	C6-N1	-5.16	1.31	1.35
36	1	3127	A	N3-C4	-5.16	1.31	1.34
36	1	3305	A	C6-N6	-5.16	1.29	1.33
1	6	609	U	N3-C4	-5.16	1.33	1.38
36	5	2964	G	N7-C5	-5.16	1.36	1.39
36	5	3065	G	N9-C4	-5.16	1.33	1.38
36	1	803	C	N3-C4	-5.16	1.30	1.33
36	1	1442	U	C2-N3	5.16	1.41	1.37
1	6	1487	A	N9-C4	5.16	1.41	1.37
36	5	866	A	C5-C4	-5.16	1.35	1.38
36	5	980	A	N7-C5	5.16	1.42	1.39
36	1	580	C	N3-C4	-5.16	1.30	1.33
37	7	43	U	C2-N3	-5.16	1.34	1.37
36	1	349	A	C6-N1	-5.16	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2761	G	N9-C8	-5.16	1.34	1.37
36	1	2999	U	N3-C4	-5.16	1.33	1.38
36	1	3010	U	C4-C5	-5.16	1.39	1.43
1	6	1787	C	N1-C6	-5.16	1.34	1.37
36	5	2283	G	N7-C5	5.16	1.42	1.39
37	7	95	A	C5-C4	-5.16	1.35	1.38
47	m0	46	PHE	CB-CG	-5.16	1.42	1.51
36	1	628	A	N7-C5	-5.15	1.36	1.39
36	5	787	G	N7-C5	-5.15	1.36	1.39
37	7	94	C	C2-N3	-5.15	1.31	1.35
36	1	900	G	N9-C8	-5.15	1.34	1.37
36	5	1140	G	C6-N1	-5.15	1.35	1.39
36	5	2149	A	N7-C5	-5.15	1.36	1.39
36	5	2621	G	N3-C4	-5.15	1.31	1.35
36	1	611	A	N9-C4	-5.15	1.34	1.37
36	1	1850	A	N7-C5	-5.15	1.36	1.39
36	1	2884	C	N1-C2	-5.15	1.34	1.40
1	6	314	C	N3-C4	-5.15	1.30	1.33
1	6	761	G	C6-N1	-5.15	1.35	1.39
1	6	1765	A	N9-C4	-5.15	1.34	1.37
36	5	1303	A	N1-C2	-5.15	1.29	1.34
36	5	2343	C	C2-O2	-5.15	1.19	1.24
1	6	1124	A	C6-N6	-5.15	1.29	1.33
36	5	3004	C	N1-C2	-5.15	1.35	1.40
36	5	3299	A	N9-C4	-5.15	1.34	1.37
1	2	1615	C	N1-C2	5.15	1.45	1.40
1	6	876	G	N9-C4	-5.15	1.33	1.38
1	6	1502	G	C6-N1	-5.15	1.35	1.39
36	5	998	A	N3-C4	-5.15	1.31	1.34
36	5	1050	U	N1-C6	-5.15	1.33	1.38
37	7	101	G	C2-N3	-5.15	1.28	1.32
36	1	1174	G	N9-C8	-5.15	1.34	1.37
36	5	1366	A	C5-C6	-5.15	1.36	1.41
36	5	1514	G	C8-N7	-5.15	1.27	1.30
36	5	2607	G	C6-N1	-5.15	1.35	1.39
36	5	2956	A	C5-C4	-5.15	1.35	1.38
36	1	1385	C	N3-C4	-5.14	1.30	1.33
36	1	1473	G	C5-C4	-5.14	1.34	1.38
36	5	218	G	P-OP2	-5.14	1.40	1.49
36	5	648	C	N1-C6	-5.14	1.34	1.37
36	5	2912	G	N7-C5	-5.14	1.36	1.39
36	5	2918	G	N9-C8	-5.14	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	104	G	N9-C4	-5.14	1.33	1.38
36	1	915	A	N3-C4	-5.14	1.31	1.34
37	3	65	G	N9-C8	-5.14	1.34	1.37
1	6	1007	C	C2-N3	-5.14	1.31	1.35
1	6	1762	A	N7-C5	-5.14	1.36	1.39
36	5	848	A	C5-C6	-5.14	1.36	1.41
36	5	2826	U	C2-N3	-5.14	1.34	1.37
36	5	3017	A	N7-C5	-5.14	1.36	1.39
36	5	3200	G	N3-C4	-5.14	1.31	1.35
59	n3	39	VAL	CB-CG1	-5.14	1.42	1.52
36	1	1150	A	N9-C4	-5.14	1.34	1.37
1	6	1135	U	C2-N3	-5.14	1.34	1.37
36	5	1403	C	N1-C2	-5.14	1.35	1.40
36	5	1429	G	N9-C8	-5.14	1.34	1.37
36	1	89	A	N7-C5	-5.14	1.36	1.39
1	6	1776	A	N9-C4	5.14	1.41	1.37
36	5	1374	G	C6-N1	-5.14	1.35	1.39
36	5	3043	C	C2-N3	-5.14	1.31	1.35
1	2	346	G	N3-C4	-5.14	1.31	1.35
36	1	970	A	C6-N1	-5.14	1.31	1.35
36	5	2667	A	C6-N1	-5.14	1.31	1.35
36	1	1607	U	N3-C4	-5.14	1.33	1.38
36	1	2398	A	C6-N6	-5.14	1.29	1.33
36	1	2706	G	C8-N7	-5.14	1.27	1.30
36	1	3060	C	N1-C6	-5.14	1.34	1.37
36	1	3226	A	N3-C4	-5.14	1.31	1.34
36	5	1344	G	N3-C4	-5.14	1.31	1.35
36	5	2422	C	N3-C4	-5.14	1.30	1.33
36	5	3146	G	C5-C4	-5.14	1.34	1.38
56	n0	166	LYS	CD-CE	5.14	1.64	1.51
36	1	2143	A	N1-C2	-5.13	1.29	1.34
1	6	1133	A	N9-C4	-5.13	1.34	1.37
36	5	1399	A	N3-C4	-5.13	1.31	1.34
36	5	1431	G	C6-N1	-5.13	1.35	1.39
36	5	2636	A	N3-C4	-5.13	1.31	1.34
1	6	552	G	N7-C5	-5.13	1.36	1.39
36	1	107	A	C5-C6	-5.13	1.36	1.41
36	5	2393	G	C5-C6	-5.13	1.37	1.42
36	5	2797	C	N1-C6	-5.13	1.34	1.37
36	5	2926	A	N7-C5	-5.13	1.36	1.39
36	5	3139	A	C5-C4	-5.13	1.35	1.38
36	1	1899	G	N7-C5	-5.13	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	1177	G	N1-C2	-5.13	1.33	1.37
36	5	1913	A	N7-C5	-5.13	1.36	1.39
36	5	2882	U	N3-C4	-5.13	1.33	1.38
36	5	2918	G	C5-C4	-5.13	1.34	1.38
36	5	2959	C	C2-O2	-5.13	1.19	1.24
36	5	3088	G	N9-C8	-5.13	1.34	1.37
36	5	3328	G	C5-C4	-5.13	1.34	1.38
36	1	1103	A	C6-N1	5.12	1.39	1.35
39	L2	219	ILE	CA-CB	-5.12	1.43	1.54
36	1	641	C	P-O5'	-5.12	1.54	1.59
36	1	2969	A	C5-C4	-5.12	1.35	1.38
1	6	407	A	N7-C5	-5.12	1.36	1.39
1	6	1642	G	N9-C4	-5.12	1.33	1.38
36	5	2122	G	C2-N3	-5.12	1.28	1.32
37	7	101	G	N7-C5	-5.12	1.36	1.39
37	3	102	A	C5-C6	-5.12	1.36	1.41
36	5	3108	G	N7-C5	-5.12	1.36	1.39
36	5	1289	G	C5-C4	-5.12	1.34	1.38
36	1	2607	G	N7-C5	-5.12	1.36	1.39
36	5	2282	U	C5'-C4'	-5.12	1.45	1.51
38	4	56	G	C6-N1	-5.12	1.35	1.39
36	5	2197	C	C4-C5	-5.12	1.38	1.43
36	5	2874	G	N9-C4	5.12	1.42	1.38
36	1	615	U	N1-C6	-5.12	1.33	1.38
36	1	1153	A	C5-C6	-5.12	1.36	1.41
36	1	1784	G	N3-C4	-5.12	1.31	1.35
1	6	1271	G	C8-N7	-5.12	1.27	1.30
36	5	596	C	N3-C4	-5.12	1.30	1.33
36	5	2811	A	C6-N1	-5.12	1.31	1.35
36	5	3094	A	N7-C5	-5.12	1.36	1.39
38	8	133	G	N9-C8	-5.12	1.34	1.37
36	1	2386	A	N9-C8	-5.11	1.33	1.37
1	6	1493	A	N9-C4	-5.11	1.34	1.37
36	5	883	A	N9-C4	-5.11	1.34	1.37
36	5	889	U	N1-C6	-5.11	1.33	1.38
36	5	1111	U	C2-N3	-5.11	1.34	1.37
36	5	1320	C	N1-C2	-5.11	1.35	1.40
36	5	1431	G	N7-C5	-5.11	1.36	1.39
36	5	2883	U	N3-C4	-5.11	1.33	1.38
36	5	3017	A	N9-C8	-5.11	1.33	1.37
38	8	9	A	N9-C4	-5.11	1.34	1.37
36	1	3066	U	N1-C2	-5.11	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	100	A	N9-C4	-5.11	1.34	1.37
36	5	2984	C	N1-C6	-5.11	1.34	1.37
36	5	3139	A	N3-C4	-5.11	1.31	1.34
36	1	370	U	N1-C2	-5.11	1.33	1.38
36	1	969	C	N1-C6	-5.11	1.34	1.37
36	1	1313	G	N3-C4	-5.11	1.31	1.35
36	1	2627	C	N3-C4	-5.11	1.30	1.33
36	5	856	G	N7-C5	-5.11	1.36	1.39
36	5	2357	A	N9-C8	-5.11	1.33	1.37
36	5	2983	C	N3-C4	-5.11	1.30	1.33
36	1	2324	A	N7-C5	-5.11	1.36	1.39
1	6	401	A	N7-C5	-5.11	1.36	1.39
36	5	679	U	N3-C4	-5.11	1.33	1.38
36	1	3126	C	N3-C4	-5.11	1.30	1.33
36	5	1128	U	C2-N3	-5.11	1.34	1.37
36	5	1128	U	N1-C6	-5.11	1.33	1.38
36	5	2335	G	C6-N1	-5.11	1.35	1.39
36	1	272	G	N3-C4	-5.11	1.31	1.35
1	6	160	C	N3-C4	-5.11	1.30	1.33
36	5	949	C	N1-C6	-5.11	1.34	1.37
37	7	96	U	N1-C6	-5.11	1.33	1.38
67	o1	75	ILE	CA-CB	-5.11	1.43	1.54
1	6	1457	C	N1-C2	5.10	1.45	1.40
1	2	1133	A	C5-C4	-5.10	1.35	1.38
36	1	719	U	C2-O2	5.10	1.26	1.22
36	1	900	G	N9-C4	-5.10	1.33	1.38
36	1	1752	A	N3-C4	-5.10	1.31	1.34
36	1	2888	U	N1-C2	-5.10	1.33	1.38
36	1	1059	G	C5-C4	-5.10	1.34	1.38
59	N3	4	ASN	CB-CG	5.10	1.62	1.51
36	5	1211	U	C5-C6	-5.10	1.29	1.34
1	2	1032	G	N3-C4	-5.10	1.31	1.35
36	1	943	U	C2-N3	-5.10	1.34	1.37
36	1	2425	G	C5-C4	-5.10	1.34	1.38
36	5	651	G	N1-C2	-5.10	1.33	1.37
36	5	806	A	C5-C4	-5.10	1.35	1.38
36	5	1314	C	N3-C4	-5.10	1.30	1.33
36	1	1197	A	C2-N3	-5.10	1.28	1.33
36	1	2324	A	N3-C4	-5.10	1.31	1.34
36	5	1208	U	N3-C4	-5.10	1.33	1.38
36	5	2679	A	C5-C4	-5.10	1.35	1.38
36	1	370	U	N1-C6	-5.10	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3267	A	N3-C4	-5.10	1.31	1.34
1	6	94	U	N1-C2	-5.10	1.33	1.38
36	5	347	G	P-O5'	-5.10	1.54	1.59
36	5	391	A	C5-C4	-5.10	1.35	1.38
36	5	511	G	N3-C4	-5.10	1.31	1.35
36	5	1193	A	C5-C6	-5.10	1.36	1.41
36	5	1370	G	N9-C4	-5.10	1.33	1.38
36	5	2369	G	N7-C5	-5.10	1.36	1.39
36	5	2857	C	C2-N3	-5.10	1.31	1.35
36	1	656	A	C6-N6	-5.09	1.29	1.33
36	1	2979	U	P-OP2	-5.09	1.40	1.49
36	5	1497	C	N1-C6	-5.09	1.34	1.37
36	5	2649	A	C6-N1	-5.09	1.31	1.35
36	1	2302	G	N3-C4	-5.09	1.31	1.35
36	5	378	A	N3-C4	-5.09	1.31	1.34
37	7	99	G	N3-C4	-5.09	1.31	1.35
36	5	2819	A	C6-N1	-5.09	1.31	1.35
1	2	1291	G	N3-C4	-5.09	1.31	1.35
36	1	626	U	N1-C2	-5.09	1.33	1.38
36	1	2223	A	N3-C4	-5.09	1.31	1.34
36	1	2845	A	N9-C4	5.09	1.41	1.37
36	1	3098	G	N7-C5	-5.09	1.36	1.39
36	1	3138	U	N1-C6	-5.09	1.33	1.38
1	6	998	A	N3-C4	-5.09	1.31	1.34
1	6	1606	C	N1-C6	-5.09	1.34	1.37
36	1	404	G	C5-C6	-5.09	1.37	1.42
36	1	2156	C	C2-N3	-5.09	1.31	1.35
36	5	510	G	N3-C4	-5.09	1.31	1.35
52	m6	54	TYR	CE1-CZ	-5.09	1.31	1.38
1	6	160	C	C4-N4	-5.09	1.29	1.33
36	5	559	A	C5-C6	-5.09	1.36	1.41
36	5	2946	A	C5-C6	-5.09	1.36	1.41
38	4	140	G	C2-N3	-5.08	1.28	1.32
36	5	1856	C	N1-C6	-5.08	1.34	1.37
36	5	2512	C	N1-C6	-5.08	1.34	1.37
69	o3	53	TYR	CD2-CE2	-5.08	1.31	1.39
36	1	587	U	C2-O2	-5.08	1.17	1.22
36	5	1047	A	C5-C6	-5.08	1.36	1.41
36	5	1898	G	N7-C5	5.08	1.42	1.39
36	1	725	G	N9-C8	-5.08	1.34	1.37
36	1	1884	A	N3-C4	-5.08	1.31	1.34
36	1	649	A	C6-N1	-5.08	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1144	U	C4-C5	-5.08	1.39	1.43
36	1	2312	A	C5-C4	-5.08	1.35	1.38
36	1	2636	A	N7-C5	-5.08	1.36	1.39
36	5	563	U	N1-C6	-5.08	1.33	1.38
36	5	774	G	C5-C6	-5.08	1.37	1.42
36	5	1912	U	N1-C2	-5.08	1.33	1.38
36	5	3075	G	N3-C4	-5.08	1.31	1.35
36	5	3319	U	N1-C2	5.08	1.43	1.38
36	5	393	U	N1-C2	-5.08	1.33	1.38
36	5	515	C	N3-C4	-5.08	1.30	1.33
47	m0	17	TYR	CD2-CE2	5.08	1.47	1.39
36	1	1159	A	C5-C4	-5.08	1.35	1.38
36	1	2333	C	N1-C6	-5.08	1.34	1.37
36	5	948	C	N3-C4	-5.08	1.30	1.33
36	5	1203	A	C4'-C3'	-5.08	1.47	1.52
36	5	1339	C	C2-N3	-5.08	1.31	1.35
36	5	2331	C	N1-C6	-5.08	1.34	1.37
36	5	1391	C	N1-C6	-5.07	1.34	1.37
36	5	2924	U	C4-C5	-5.07	1.39	1.43
36	1	787	G	C6-N1	-5.07	1.35	1.39
36	1	936	A	C6-N6	-5.07	1.29	1.33
36	1	744	A	C5-C6	-5.07	1.36	1.41
36	1	2727	A	C5-C6	5.07	1.45	1.41
36	5	417	A	N9-C4	-5.07	1.34	1.37
36	5	638	C	N1-C6	-5.07	1.34	1.37
36	5	1896	A	P-O5'	-5.07	1.54	1.59
36	5	3223	A	N3-C4	-5.07	1.31	1.34
36	1	820	A	N9-C4	-5.07	1.34	1.37
36	1	1047	A	N3-C4	-5.07	1.31	1.34
36	1	1136	A	N9-C8	-5.07	1.33	1.37
36	1	1308	A	C6-N6	5.07	1.38	1.33
36	1	2954	U	C4-C5	5.07	1.48	1.43
1	6	1139	A	C5-C4	-5.07	1.35	1.38
36	5	1485	G	C6-N1	-5.07	1.36	1.39
36	5	3012	A	C8-N7	-5.07	1.28	1.31
36	1	792	G	N3-C4	-5.07	1.31	1.35
36	1	1143	A	C5-C6	-5.07	1.36	1.41
38	4	4	C	N3-C4	-5.07	1.30	1.33
38	4	99	C	N1-C6	-5.07	1.34	1.37
36	5	904	A	N3-C4	-5.07	1.31	1.34
36	5	2656	A	N3-C4	-5.07	1.31	1.34
36	5	3047	U	N1-C6	-5.07	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	89	G	C2-N3	-5.07	1.28	1.32
40	l3	92	TYR	CE1-CZ	-5.07	1.31	1.38
1	6	109	G	N9-C4	-5.07	1.33	1.38
1	6	1681	A	N9-C4	-5.07	1.34	1.37
36	5	941	G	N7-C5	-5.07	1.36	1.39
36	5	2855	U	N1-C6	-5.07	1.33	1.38
56	n0	78	TRP	CE3-CZ3	-5.07	1.29	1.38
1	2	1299	G	C2-N3	5.06	1.36	1.32
36	1	2796	G	C2-N2	-5.06	1.29	1.34
1	6	1171	A	C6-N1	-5.06	1.32	1.35
1	6	1794	A	N9-C4	-5.06	1.34	1.37
36	5	942	U	N1-C6	-5.06	1.33	1.38
36	5	1320	C	N3-C4	-5.06	1.30	1.33
36	1	317	A	C6-N6	-5.06	1.29	1.33
36	1	815	G	N9-C8	-5.06	1.34	1.37
36	1	2937	G	C2-N3	-5.06	1.28	1.32
1	6	544	A	N9-C4	5.06	1.40	1.37
1	6	1137	A	C1'-N9	-5.06	1.39	1.46
36	1	2123	G	C5-C4	-5.06	1.34	1.38
36	5	1134	G	C2-N3	-5.06	1.28	1.32
36	5	3016	A	N9-C4	-5.06	1.34	1.37
36	5	3211	C	N1-C2	-5.06	1.35	1.40
68	o2	76	VAL	CB-CG1	-5.06	1.42	1.52
1	2	337	G	N3-C4	-5.06	1.31	1.35
36	1	680	G	C2-N3	-5.06	1.28	1.32
36	1	2368	A	N9-C4	5.06	1.40	1.37
38	4	20	U	C2-O2	-5.06	1.17	1.22
1	6	1753	A	C2'-C1'	5.06	1.58	1.53
36	5	39	A	N3-C4	-5.06	1.31	1.34
36	5	519	A	N3-C4	-5.06	1.31	1.34
36	5	1127	G	C2-N3	5.06	1.36	1.32
36	5	1404	G	C5-C6	-5.06	1.37	1.42
36	1	1522	U	N1-C6	-5.06	1.33	1.38
36	5	940	G	N1-C2	-5.06	1.33	1.37
36	5	1047	A	C6-N6	-5.06	1.29	1.33
36	5	2941	A	C6-N1	-5.06	1.32	1.35
36	1	2962	U	C2-N3	-5.06	1.34	1.37
1	6	29	U	C2-N3	-5.06	1.34	1.37
36	5	2948	C	N3-C4	-5.06	1.30	1.33
36	1	1134	G	C5-C4	-5.05	1.34	1.38
36	5	927	C	C2-O2	-5.05	1.20	1.24
48	m1	18	VAL	CA-CB	-5.05	1.44	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	555	A	N9-C4	5.05	1.40	1.37
44	17	78	GLU	CB-CG	5.05	1.61	1.52
36	1	1524	A	C5-C6	5.05	1.45	1.41
36	1	2702	A	N9-C8	-5.05	1.33	1.37
1	6	352	A	N3-C4	-5.05	1.31	1.34
36	5	585	A	C6-N1	-5.05	1.32	1.35
36	5	1001	G	N7-C5	5.05	1.42	1.39
36	5	1197	A	C5-C6	-5.05	1.36	1.41
36	5	2840	C	N1-C6	-5.05	1.34	1.37
36	5	2907	G	C6-N1	-5.05	1.36	1.39
36	5	2938	G	C5-C6	-5.05	1.37	1.42
36	1	2698	G	C5-C4	-5.05	1.34	1.38
53	M7	46	LYS	CD-CE	5.05	1.63	1.51
36	5	284	A	N3-C4	-5.05	1.31	1.34
36	5	349	A	C5-C4	-5.05	1.35	1.38
36	5	1141	C	P-O5'	-5.05	1.54	1.59
36	5	1290	A	C6-N1	-5.05	1.32	1.35
36	5	2163	C	N3-C4	-5.05	1.30	1.33
36	5	2295	A	C5-C4	-5.05	1.35	1.38
36	5	2320	A	N9-C8	-5.05	1.33	1.37
36	5	2364	G	C5-C4	-5.05	1.34	1.38
36	5	2942	C	C4-C5	5.05	1.47	1.43
37	7	68	C	N3-C4	-5.05	1.30	1.33
36	1	1116	G	N9-C8	-5.05	1.34	1.37
36	1	2818	U	N1-C2	-5.05	1.34	1.38
1	6	55	A	N9-C4	-5.05	1.34	1.37
1	6	1118	G	C2-N3	-5.05	1.28	1.32
1	6	1787	C	C2-O2	-5.05	1.20	1.24
36	5	755	A	C6-N1	-5.05	1.32	1.35
36	5	1892	G	N3-C4	-5.05	1.31	1.35
36	5	3143	C	C2-N3	5.05	1.39	1.35
41	14	117	GLU	CG-CD	5.05	1.59	1.51
36	1	583	G	N9-C8	-5.04	1.34	1.37
1	6	968	U	C2-N3	-5.04	1.34	1.37
36	5	2116	G	C2-N3	-5.04	1.28	1.32
36	1	2236	G	C8-N7	-5.04	1.27	1.30
1	6	1147	A	C6-N1	-5.04	1.32	1.35
25	d3	125	VAL	CA-CB	-5.04	1.44	1.54
36	5	648	C	N3-C4	-5.04	1.30	1.33
36	5	1156	C	C4-C5	-5.04	1.39	1.43
36	5	2863	G	C2-N3	-5.04	1.28	1.32
36	1	808	A	N7-C5	-5.04	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3045	G	C6-O6	-5.04	1.19	1.24
36	5	1317	A	C5-C6	-5.04	1.36	1.41
1	6	407	A	C5-C4	-5.04	1.35	1.38
36	5	1413	G	N9-C8	-5.04	1.34	1.37
36	5	1451	C	N1-C6	-5.04	1.34	1.37
36	1	2891	U	N1-C6	-5.04	1.33	1.38
36	1	3005	A	N9-C4	-5.04	1.34	1.37
36	1	3267	A	N7-C5	-5.04	1.36	1.39
38	8	102	U	C2-N3	-5.04	1.34	1.37
46	19	153	ASP	CB-CG	5.04	1.62	1.51
36	1	824	C	N1-C6	-5.04	1.34	1.37
36	5	1141	C	C4-C5	-5.04	1.39	1.43
36	1	2209	U	C2-N3	5.04	1.41	1.37
36	1	2980	U	N1-C2	-5.04	1.34	1.38
36	5	1202	A	C5-C6	-5.04	1.36	1.41
36	5	1473	G	C5-C4	-5.04	1.34	1.38
36	5	2276	G	N9-C4	-5.04	1.33	1.38
36	5	2318	U	N1-C2	-5.04	1.34	1.38
37	7	37	G	N3-C4	5.04	1.39	1.35
57	n1	63	VAL	CB-CG2	-5.04	1.42	1.52
36	1	1906	G	N3-C4	-5.03	1.31	1.35
36	1	2764	C	N1-C2	-5.03	1.35	1.40
1	6	1569	A	N7-C5	-5.03	1.36	1.39
36	5	2394	G	N3-C4	-5.03	1.31	1.35
36	5	2643	A	P-O5'	-5.03	1.54	1.59
36	5	2869	U	N3-C4	-5.03	1.33	1.38
36	1	935	U	C2-N3	-5.03	1.34	1.37
36	1	3318	G	N7-C5	-5.03	1.36	1.39
1	6	1136	U	N1-C2	-5.03	1.34	1.38
36	1	968	G	C2-N3	5.03	1.36	1.32
36	1	1604	G	N9-C4	5.03	1.42	1.38
1	6	1128	C	N3-C4	-5.03	1.30	1.33
36	5	437	G	O3'-P	5.03	1.67	1.61
36	5	900	G	C5-C4	-5.03	1.34	1.38
54	m8	74	GLU	CG-CD	5.03	1.59	1.51
36	1	983	A	N3-C4	-5.03	1.31	1.34
36	5	1891	A	C5-C4	-5.03	1.35	1.38
1	2	1555	A	N3-C4	-5.03	1.31	1.34
4	S2	232	GLU	CB-CG	5.03	1.61	1.52
36	1	880	G	N9-C8	-5.03	1.34	1.37
36	1	953	G	N9-C4	-5.03	1.33	1.38
36	1	1177	G	N1-C2	-5.03	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2135	U	C2-N3	-5.03	1.34	1.37
1	6	558	U	C2-N3	5.03	1.41	1.37
36	5	2311	G	N9-C4	-5.03	1.33	1.38
36	5	2880	U	O3'-P	-5.03	1.55	1.61
37	7	118	A	N3-C4	-5.03	1.31	1.34
38	8	4	C	C2-O2	-5.03	1.20	1.24
36	1	2113	A	C5-C6	5.03	1.45	1.41
1	6	1658	G	C2-N3	-5.03	1.28	1.32
37	7	61	G	C6-N1	-5.03	1.36	1.39
36	1	2785	A	C6-N1	-5.02	1.32	1.35
36	5	1923	C	C4-C5	-5.02	1.39	1.43
36	1	2850	G	C6-N1	-5.02	1.36	1.39
68	O2	41	VAL	CA-CB	-5.02	1.44	1.54
36	5	585	A	N9-C4	-5.02	1.34	1.37
36	5	2239	G	C2-N3	-5.02	1.28	1.32
36	5	2399	A	C6-N6	-5.02	1.29	1.33
36	5	3322	A	N7-C5	-5.02	1.36	1.39
36	1	505	G	N9-C4	-5.02	1.33	1.38
36	1	625	G	N3-C4	-5.02	1.31	1.35
36	1	652	G	C6-N1	-5.02	1.36	1.39
36	1	860	G	N9-C8	-5.02	1.34	1.37
36	1	2804	A	C5-C4	-5.02	1.35	1.38
36	1	3379	C	N1-C6	-5.02	1.34	1.37
36	1	1119	C	N1-C6	-5.02	1.34	1.37
1	6	160	C	C2-N3	-5.02	1.31	1.35
36	5	417	A	C5-C4	-5.02	1.35	1.38
36	5	754	G	C6-N1	-5.02	1.36	1.39
36	5	798	G	C5-C6	-5.02	1.37	1.42
36	5	3025	C	C2-N3	-5.02	1.31	1.35
36	1	2321	A	N3-C4	-5.02	1.31	1.34
36	1	3129	A	N9-C4	-5.02	1.34	1.37
36	5	876	A	C6-N6	-5.02	1.29	1.33
36	5	1190	A	N7-C5	-5.02	1.36	1.39
40	l3	5	LYS	CD-CE	5.02	1.63	1.51
1	2	47	A	N3-C4	-5.02	1.31	1.34
36	1	1204	A	N3-C4	-5.02	1.31	1.34
36	1	2924	U	C2-O2	-5.02	1.17	1.22
36	5	1914	G	N3-C4	-5.02	1.31	1.35
36	1	649	A	N9-C8	-5.01	1.33	1.37
1	6	760	A	N9-C4	-5.01	1.34	1.37
38	4	104	A	C6-N1	-5.01	1.32	1.35
71	O5	64	GLU	CB-CG	5.01	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	5	2696	A	N3-C4	-5.01	1.31	1.34
37	7	22	A	N3-C4	-5.01	1.31	1.34
36	1	1362	G	C5-C4	-5.01	1.34	1.38
36	1	2663	G	C5-C4	-5.01	1.34	1.38
36	1	3012	A	C5-C4	-5.01	1.35	1.38
36	5	283	G	C6-N1	-5.01	1.36	1.39
36	5	1064	A	N7-C5	-5.01	1.36	1.39
36	5	2131	A	C5-C4	-5.01	1.35	1.38
36	5	2607	G	C5-C6	-5.01	1.37	1.42
36	1	1313	G	C6-O6	-5.01	1.19	1.24
36	1	1905	G	C2-N3	-5.01	1.28	1.32
36	1	2201	G	C5-C4	-5.01	1.34	1.38
36	1	2613	U	N1-C6	-5.01	1.33	1.38
36	1	2923	U	N1-C2	-5.01	1.34	1.38
36	5	1446	A	N9-C8	-5.01	1.33	1.37
36	5	2270	A	C5-C6	-5.01	1.36	1.41
36	5	2392	C	N1-C2	-5.01	1.35	1.40
36	5	3189	G	C8-N7	-5.01	1.27	1.30
36	5	3320	A	N7-C5	-5.01	1.36	1.39
1	2	1761	U	N3-C4	-5.01	1.33	1.38
36	5	511	G	C8-N7	-5.01	1.27	1.30
36	1	648	C	N3-C4	-5.01	1.30	1.33
36	1	1050	U	C5'-C4'	-5.01	1.45	1.51
36	1	3207	U	C4-C5	5.01	1.48	1.43
1	6	1732	A	N7-C5	-5.01	1.36	1.39
36	5	356	C	N3-C4	-5.01	1.30	1.33
36	5	914	A	N9-C4	-5.01	1.34	1.37
1	2	367	A	N3-C4	-5.00	1.31	1.34
1	6	971	A	C5-C6	-5.00	1.36	1.41
36	5	3048	A	N3-C4	-5.00	1.31	1.34
36	1	2300	G	N3-C4	-5.00	1.31	1.35
36	5	650	C	C4-N4	-5.00	1.29	1.33
36	5	1136	A	N9-C4	-5.00	1.34	1.37
36	5	2370	G	C5-C4	-5.00	1.34	1.38
36	1	3227	A	N7-C5	-5.00	1.36	1.39
36	5	1915	A	N7-C5	-5.00	1.36	1.39
36	5	3223	A	C6-N1	-5.00	1.32	1.35

All (22469) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1152	G	N3-C4-N9	-25.15	110.91	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	44	C	C6-N1-C2	24.27	130.01	120.30
36	5	648	C	N3-C4-C5	-23.62	112.45	121.90
36	5	884	A	N1-C6-N6	23.07	132.44	118.60
38	4	94	C	C6-N1-C2	22.99	129.50	120.30
36	5	1897	G	N1-C6-O6	21.43	132.75	119.90
36	1	2831	G	N1-C6-O6	21.37	132.72	119.90
36	5	424	G	C5-C6-O6	-21.05	115.97	128.60
36	5	1152	G	N3-C4-C5	20.71	138.95	128.60
36	5	3196	U	O5'-P-OP2	-20.22	86.43	110.70
36	5	1589	A	N1-C6-N6	19.86	130.52	118.60
36	5	40	A	O5'-P-OP1	-19.50	87.30	110.70
36	1	1308	A	O5'-P-OP2	-19.14	87.73	110.70
36	1	2726	C	N3-C4-N4	-19.14	104.60	118.00
36	5	1303	A	C5-C6-N6	-18.88	108.60	123.70
36	5	1115	G	C5-C6-O6	-18.78	117.33	128.60
36	5	1179	A	O5'-P-OP1	-18.71	88.25	110.70
37	7	49	G	N1-C6-O6	18.44	130.96	119.90
36	1	211	A	O5'-P-OP1	-18.36	88.67	110.70
36	1	3217	C	C2-N1-C1'	18.32	138.95	118.80
36	5	1149	G	N1-C6-O6	18.22	130.83	119.90
36	1	2811	A	C6-N1-C2	-18.10	107.74	118.60
36	5	632	G	O5'-P-OP2	-18.10	88.97	110.70
36	5	1897	G	C5-C6-O6	-18.09	117.75	128.60
36	5	3115	C	N1-C2-O2	-18.09	108.05	118.90
36	5	1556	C	N1-C2-O2	17.99	129.69	118.90
1	6	1579	U	O5'-P-OP1	-17.98	89.12	110.70
36	5	1115	G	N3-C4-N9	17.90	136.74	126.00
36	5	2140	U	O5'-P-OP2	-17.80	89.34	110.70
38	4	20	U	O5'-P-OP2	-17.77	89.38	110.70
36	1	2726	C	C5-C4-N4	17.72	132.61	120.20
36	5	648	C	C5-C4-N4	17.55	132.48	120.20
37	7	89	G	C5-C6-N1	-17.51	102.75	111.50
1	6	1137	A	C8-N9-C4	17.43	112.77	105.80
36	5	2937	G	O5'-P-OP2	-17.38	89.84	110.70
36	5	661	G	O5'-P-OP1	-17.38	89.85	110.70
36	1	2305	G	N1-C6-O6	-17.35	109.49	119.90
1	6	1131	A	N1-C6-N6	17.29	128.98	118.60
36	1	583	G	N1-C6-O6	-17.27	109.54	119.90
36	5	218	G	O5'-P-OP2	-17.26	89.99	110.70
36	1	1307	G	O5'-P-OP1	-17.23	90.03	110.70
36	5	1407	A	O5'-P-OP2	-17.21	90.05	110.70
36	5	3245	A	N1-C6-N6	17.18	128.91	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2315	G	O5'-P-OP1	-17.14	90.13	110.70
36	5	1303	A	N1-C6-N6	17.09	128.85	118.60
36	1	2963	C	C6-N1-C2	-16.99	113.50	120.30
36	1	2871	G	O5'-P-OP2	-16.91	90.41	110.70
36	1	2953	U	N3-C4-C5	-16.86	104.49	114.60
36	1	101	G	N1-C6-O6	16.83	130.00	119.90
36	1	2353	G	N1-C6-O6	16.77	129.96	119.90
38	4	26	U	C6-N1-C2	-16.72	110.97	121.00
37	7	89	G	N1-C6-O6	16.67	129.90	119.90
1	6	163	G	N3-C4-N9	-16.51	116.09	126.00
36	1	2941	A	O5'-P-OP2	-16.51	90.84	105.70
36	1	1371	G	O5'-P-OP2	-16.46	90.89	105.70
36	1	2811	A	N1-C2-N3	16.45	137.52	129.30
38	4	26	U	N3-C4-C5	-16.43	104.74	114.60
1	6	385	A	O5'-P-OP2	-16.37	90.97	105.70
36	5	1852	G	C5-C6-O6	-16.32	118.81	128.60
36	5	2199	G	N1-C6-O6	16.31	129.69	119.90
36	1	2942	C	C5-C6-N1	16.26	129.13	121.00
36	5	2689	A	C8-N9-C4	-16.25	99.30	105.80
36	1	2871	G	C4-C5-N7	16.15	117.26	110.80
36	5	2212	C	N1-C2-O2	16.11	128.57	118.90
36	1	1905	G	N3-C4-N9	-16.11	116.34	126.00
36	1	959	C	C6-N1-C2	16.09	126.74	120.30
36	5	2936	A	C6-N1-C2	-16.08	108.95	118.60
36	1	2623	G	N1-C6-O6	16.07	129.54	119.90
36	5	961	C	O5'-P-OP1	-16.02	91.28	105.70
36	5	884	A	C5-C6-N6	-16.02	110.89	123.70
36	5	1115	G	C6-C5-N7	-15.99	120.81	130.40
36	1	1542	G	C4-C5-N7	15.95	117.18	110.80
36	5	437	G	C8-N9-C4	-15.94	100.03	106.40
36	5	994	G	N9-C4-C5	-15.93	99.03	105.40
36	1	639	G	C2-N3-C4	-15.77	104.01	111.90
36	5	1330	A	C2-N3-C4	-15.72	102.74	110.60
36	5	3032	A	N1-C6-N6	-15.71	109.17	118.60
36	5	1373	A	N1-C6-N6	15.70	128.02	118.60
36	5	695	C	C6-N1-C2	15.64	126.56	120.30
36	1	1386	A	N1-C6-N6	-15.63	109.22	118.60
36	5	2353	G	C4-C5-N7	15.61	117.04	110.80
36	1	964	G	C5-C6-O6	-15.53	119.28	128.60
36	5	1321	G	N1-C6-O6	15.49	129.19	119.90
36	5	578	A	N1-C6-N6	-15.47	109.32	118.60
36	5	1303	A	C4-C5-N7	15.43	118.42	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1208	U	C5-C4-O4	15.41	135.15	125.90
36	1	2625	C	C6-N1-C2	15.40	126.46	120.30
36	5	994	G	C5-C6-O6	-15.31	119.41	128.60
36	1	979	U	C6-N1-C2	-15.28	111.83	121.00
36	5	2620	G	C5-C6-O6	15.25	137.75	128.60
36	1	2727	A	N9-C4-C5	15.23	111.89	105.80
36	1	1000	C	C6-N1-C2	15.19	126.38	120.30
37	3	88	G	N1-C6-O6	-15.19	110.78	119.90
36	5	1115	G	N9-C4-C5	-15.19	99.33	105.40
36	1	2726	C	C6-N1-C2	-15.18	114.23	120.30
36	1	2939	G	C4-C5-N7	-15.18	104.73	110.80
36	5	3146	G	N1-C6-O6	15.18	129.00	119.90
36	5	2803	A	O5'-P-OP2	-15.17	92.05	105.70
36	1	3325	G	C8-N9-C4	15.16	112.47	106.40
36	5	1151	U	C5-C6-N1	15.14	130.27	122.70
36	5	3146	G	C5-C6-O6	-15.12	119.53	128.60
36	1	1392	G	N1-C6-O6	-15.12	110.83	119.90
36	5	3144	G	O5'-P-OP1	-15.12	92.09	105.70
1	6	1778	G	C4-C5-N7	15.10	116.84	110.80
36	5	1897	G	C6-C5-N7	-15.08	121.35	130.40
36	1	608	A	N1-C6-N6	15.06	127.64	118.60
36	1	2379	U	O5'-P-OP2	-15.04	92.17	105.70
36	5	1604	G	N1-C6-O6	-15.04	110.88	119.90
36	5	1556	C	N3-C2-O2	-15.02	111.39	121.90
1	2	73	U	O4'-C1'-N1	14.96	120.17	108.20
36	5	330	G	C8-N9-C4	14.95	112.38	106.40
36	5	971	G	N1-C6-O6	-14.93	110.94	119.90
36	1	2609	A	O5'-P-OP2	-14.92	92.28	105.70
36	5	2638	C	C6-N1-C2	-14.91	114.34	120.30
36	5	2821	C	N1-C2-O2	14.90	127.84	118.90
36	1	1178	G	N3-C4-N9	14.89	134.94	126.00
36	5	884	A	N9-C4-C5	-14.88	99.85	105.80
36	5	1000	C	C6-N1-C2	14.88	126.25	120.30
36	5	1152	G	C2-N3-C4	-14.86	104.47	111.90
38	8	20	U	O5'-P-OP2	-14.86	92.33	105.70
36	5	2715	A	N9-C4-C5	14.85	111.74	105.80
36	5	994	G	C4-C5-N7	14.81	116.72	110.80
36	5	3245	A	C2-N3-C4	-14.80	103.20	110.60
36	5	1129	A	N1-C6-N6	14.79	127.48	118.60
36	5	2943	G	N1-C6-O6	14.78	128.77	119.90
36	5	437	G	N3-C4-C5	-14.77	121.22	128.60
36	1	2930	A	O5'-P-OP2	-14.76	92.42	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1211	U	C6-N1-C2	14.75	129.85	121.00
1	6	1778	G	C5-C6-O6	-14.68	119.79	128.60
36	5	2715	A	N1-C6-N6	-14.68	109.79	118.60
36	5	1295	G	C4-C5-N7	14.68	116.67	110.80
36	5	1589	A	C5-C6-N6	-14.66	111.97	123.70
36	1	1435	A	C8-N9-C4	-14.65	99.94	105.80
36	5	1151	U	C6-N1-C2	-14.65	112.21	121.00
1	6	1463	C	C6-N1-C2	14.64	126.16	120.30
36	1	917	A	N1-C6-N6	-14.64	109.82	118.60
36	5	1116	G	O5'-P-OP1	-14.62	92.54	105.70
36	5	2139	A	N1-C2-N3	14.62	136.61	129.30
36	5	1127	G	N3-C4-C5	-14.62	121.29	128.60
1	6	1731	A	O5'-P-OP2	-14.61	92.55	105.70
1	6	1131	A	C5-C6-N6	-14.60	112.02	123.70
36	1	2618	G	N1-C6-O6	-14.59	111.14	119.90
36	5	3096	C	C6-N1-C2	-14.56	114.48	120.30
38	8	38	U	N3-C2-O2	-14.55	112.01	122.20
36	5	818	C	C6-N1-C2	14.53	126.11	120.30
36	1	2374	C	N1-C2-O2	14.52	127.61	118.90
36	5	1115	G	N1-C6-O6	14.51	128.61	119.90
36	5	1149	G	C6-C5-N7	-14.48	121.71	130.40
36	1	2981	U	N3-C2-O2	-14.46	112.08	122.20
1	6	360	A	O5'-P-OP2	-14.44	92.70	105.70
36	1	1508	C	C6-N1-C2	-14.42	114.53	120.30
37	7	49	G	C6-C5-N7	-14.41	121.76	130.40
1	2	1195	C	N3-C2-O2	-14.39	111.83	121.90
36	5	363	G	C5-C6-O6	-14.37	119.98	128.60
1	2	1280	C	C6-N1-C2	-14.36	114.56	120.30
36	1	206	G	C8-N9-C4	14.34	112.14	106.40
36	5	101	G	O5'-P-OP2	-14.33	92.80	105.70
36	1	651	G	N3-C4-N9	14.32	134.59	126.00
36	1	3181	C	C5-C4-N4	14.32	130.23	120.20
1	6	1535	U	N3-C2-O2	-14.30	112.19	122.20
36	1	92	G	N1-C6-O6	14.30	128.48	119.90
36	5	2334	U	N3-C2-O2	-14.30	112.19	122.20
36	5	2945	G	C8-N9-C4	-14.28	100.69	106.40
36	1	3217	C	N3-C2-O2	-14.27	111.91	121.90
38	4	27	U	O5'-P-OP1	-14.25	92.88	105.70
36	1	2939	G	N3-C4-C5	-14.23	121.48	128.60
1	6	1644	C	N3-C2-O2	-14.23	111.94	121.90
36	1	2639	G	N3-C2-N2	-14.22	109.94	119.90
36	5	1897	G	C4-C5-N7	14.22	116.49	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2617	U	C4-C5-C6	14.21	128.23	119.70
36	5	2689	A	N1-C2-N3	14.21	136.41	129.30
36	5	2875	U	C4-C5-C6	14.21	128.23	119.70
36	5	1151	U	N3-C4-C5	-14.21	106.08	114.60
1	6	1108	G	C8-N9-C4	-14.19	100.72	106.40
36	1	423	A	C6-N1-C2	-14.16	110.11	118.60
36	1	1298	C	O5'-P-OP1	-14.15	92.97	105.70
36	1	1594	A	N1-C6-N6	-14.14	110.11	118.60
36	5	2312	A	N1-C6-N6	-14.14	110.11	118.60
36	5	1165	A	C8-N9-C4	-14.12	100.15	105.80
36	1	2871	G	C5-C6-O6	-14.11	120.13	128.60
36	5	1054	A	C8-N9-C4	14.09	111.44	105.80
36	5	2340	U	O5'-P-OP1	-14.09	93.02	105.70
36	5	2615	G	C5-C6-O6	-14.07	120.16	128.60
36	5	2954	U	O5'-P-OP1	-14.07	93.04	105.70
36	5	64	G	C6-C5-N7	-14.06	121.96	130.40
36	1	421	G	N1-C6-O6	-14.05	111.47	119.90
36	5	82	C	C6-N1-C2	14.02	125.91	120.30
36	1	2871	G	C5-N7-C8	-13.99	97.30	104.30
36	5	2275	A	C8-N9-C4	-13.98	100.21	105.80
38	4	18	U	O5'-P-OP1	-13.96	93.13	105.70
36	1	2409	G	C8-N9-C1'	-13.94	108.88	127.00
36	1	644	G	C5-C6-O6	13.93	136.96	128.60
36	1	2622	C	C6-N1-C2	-13.93	114.73	120.30
36	5	2703	A	C4-C5-C6	13.92	123.96	117.00
36	1	2280	A	O5'-P-OP2	13.91	127.40	110.70
36	5	2851	A	N1-C6-N6	-13.91	110.25	118.60
1	6	1753	A	N3-C4-C5	-13.91	117.06	126.80
36	1	1132	C	O5'-P-OP1	-13.90	93.19	105.70
36	5	2689	A	N1-C6-N6	-13.89	110.27	118.60
36	1	2726	C	N3-C2-O2	-13.89	112.18	121.90
36	1	366	A	C8-N9-C4	-13.88	100.25	105.80
36	5	3014	U	O5'-P-OP2	-13.87	93.22	105.70
36	1	2136	C	N3-C4-C5	-13.86	116.36	121.90
36	5	2902	A	N1-C2-N3	13.86	136.23	129.30
36	1	2727	A	N1-C6-N6	-13.86	110.28	118.60
36	5	366	A	C2-N3-C4	-13.85	103.67	110.60
36	5	424	G	N1-C6-O6	13.85	128.21	119.90
36	1	2394	G	C4-C5-N7	-13.83	105.27	110.80
36	5	884	A	C6-C5-N7	-13.81	122.63	132.30
36	5	2139	A	N1-C6-N6	-13.78	110.33	118.60
1	6	1732	A	C2-N3-C4	-13.78	103.71	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2202	C	C6-N1-C2	-13.77	114.79	120.30
36	1	1340	G	C5-C6-O6	-13.75	120.35	128.60
36	5	2816	G	N3-C4-C5	13.74	135.47	128.60
36	1	806	A	C2-N3-C4	-13.74	103.73	110.60
36	1	1178	G	N3-C4-C5	-13.74	121.73	128.60
37	7	101	G	N1-C6-O6	13.73	128.13	119.90
1	6	1742	U	O5'-P-OP2	-13.70	93.37	105.70
36	1	1406	A	N1-C6-N6	13.69	126.82	118.60
37	3	98	C	C5-C6-N1	-13.69	114.15	121.00
36	5	2689	A	N9-C4-C5	13.68	111.27	105.80
36	1	2869	U	N3-C2-O2	13.66	131.76	122.20
36	1	1111	U	C5-C6-N1	-13.66	115.87	122.70
36	5	1310	G	C5-C6-O6	-13.66	120.41	128.60
36	5	1296	C	C6-N1-C2	-13.65	114.84	120.30
37	7	84	A	C8-N9-C4	-13.65	100.34	105.80
36	5	2615	G	N1-C6-O6	13.65	128.09	119.90
36	1	40	A	N1-C6-N6	-13.63	110.42	118.60
36	5	2970	C	O5'-P-OP1	-13.62	93.44	105.70
36	1	2371	G	O5'-P-OP2	-13.62	93.44	105.70
36	5	3085	G	N1-C6-O6	-13.62	111.73	119.90
36	5	867	G	N1-C6-O6	13.61	128.07	119.90
36	5	3245	A	C5-N7-C8	-13.57	97.11	103.90
36	1	3277	U	N3-C2-O2	-13.56	112.71	122.20
36	1	2385	G	C5-C6-O6	-13.54	120.47	128.60
36	5	1156	C	C6-N1-C2	-13.52	114.89	120.30
36	5	1115	G	C4-C5-N7	13.52	116.21	110.80
36	1	645	A	C5-C6-N1	13.51	124.46	117.70
36	5	2940	A	C8-N9-C4	-13.51	100.40	105.80
1	6	1730	A	N1-C6-N6	-13.50	110.50	118.60
36	1	3092	C	C6-N1-C2	13.49	125.70	120.30
36	5	1303	A	N9-C4-C5	-13.49	100.40	105.80
1	6	1467	C	C6-N1-C2	-13.49	114.91	120.30
36	5	1896	A	N1-C6-N6	-13.49	110.51	118.60
1	6	1572	G	N1-C6-O6	13.48	127.99	119.90
1	6	1112	G	N1-C6-O6	-13.48	111.81	119.90
36	1	2363	A	N9-C4-C5	13.47	111.19	105.80
36	5	2416	U	O5'-P-OP2	-13.47	93.58	105.70
36	1	780	A	N9-C4-C5	13.45	111.18	105.80
36	1	2168	A	N1-C6-N6	-13.44	110.54	118.60
37	7	93	C	C6-N1-C2	-13.43	114.93	120.30
36	5	2278	C	N1-C2-O2	13.42	126.95	118.90
36	5	3245	A	C5-C6-N1	-13.42	110.99	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	101	G	C4-C5-N7	13.40	116.16	110.80
36	1	2356	A	C5-N7-C8	-13.40	97.20	103.90
36	5	2393	G	C6-C5-N7	-13.40	122.36	130.40
36	1	635	G	C5-C6-O6	-13.38	120.57	128.60
36	5	2298	U	N1-C2-O2	13.38	132.17	122.80
36	1	3217	C	C6-N1-C1'	-13.38	104.75	120.80
1	6	1457	C	N1-C2-O2	13.38	126.93	118.90
1	2	310	C	C6-N1-C2	-13.35	114.96	120.30
36	5	924	G	O5'-P-OP1	-13.35	93.68	105.70
36	5	1152	G	C8-N9-C1'	13.33	144.33	127.00
36	5	339	C	C6-N1-C2	13.33	125.63	120.30
36	5	2400	G	N3-C4-N9	-13.33	118.00	126.00
36	5	2393	G	C4-C5-N7	13.32	116.13	110.80
1	6	1463	C	N3-C4-C5	13.31	127.23	121.90
36	1	892	U	O5'-P-OP1	13.31	126.67	110.70
36	5	669	U	N1-C2-O2	13.30	132.11	122.80
36	1	2399	A	C5-C6-N6	-13.30	113.06	123.70
1	2	1195	C	N1-C2-O2	13.29	126.87	118.90
36	5	1327	C	O5'-P-OP2	-13.28	93.75	105.70
36	5	1901	A	C5-C6-N1	13.28	124.34	117.70
36	5	3200	G	C5-C6-N1	-13.27	104.86	111.50
36	1	1542	G	N1-C6-O6	13.27	127.86	119.90
36	1	2930	A	C5-C6-N6	-13.26	113.09	123.70
36	5	1589	A	C6-C5-N7	-13.26	123.02	132.30
36	1	1392	G	C4-C5-N7	-13.26	105.50	110.80
37	7	45	A	N1-C6-N6	-13.24	110.66	118.60
36	1	2241	U	C5-C4-O4	13.22	133.83	125.90
36	5	2353	G	C5-N7-C8	-13.21	97.70	104.30
36	1	146	U	N3-C2-O2	-13.19	112.97	122.20
36	1	942	U	N3-C4-C5	-13.18	106.69	114.60
36	1	651	G	N9-C4-C5	-13.16	100.14	105.40
1	2	1096	C	N1-C2-O2	13.15	126.79	118.90
36	1	435	C	C6-N1-C2	13.15	125.56	120.30
36	1	2605	G	C2-N3-C4	-13.15	105.32	111.90
36	1	2617	U	N1-C2-N3	13.15	122.79	114.90
36	1	1103	A	O5'-P-OP1	-13.14	93.87	105.70
36	5	2137	U	O5'-P-OP1	-13.10	93.91	105.70
36	5	2139	A	N9-C4-C5	13.10	111.04	105.80
36	5	2212	C	N3-C2-O2	-13.10	112.73	121.90
36	1	1305	U	N1-C2-N3	13.09	122.76	114.90
36	1	3179	U	O5'-P-OP1	-13.09	93.92	105.70
36	5	942	U	N3-C4-C5	-13.09	106.75	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2356	A	N7-C8-N9	13.08	120.34	113.80
36	1	633	C	C6-N1-C2	-13.08	115.07	120.30
36	5	1330	A	C8-N9-C4	13.08	111.03	105.80
36	1	2631	U	N3-C2-O2	-13.07	113.05	122.20
36	5	940	G	C5-C6-N1	13.04	118.02	111.50
37	7	92	A	N1-C6-N6	13.03	126.42	118.60
36	1	1129	A	C8-N9-C4	-13.02	100.59	105.80
36	1	697	A	C8-N9-C4	13.02	111.01	105.80
1	6	1131	A	C4-C5-N7	13.01	117.20	110.70
36	5	2329	C	C6-N1-C2	13.01	125.50	120.30
36	5	2383	C	C6-N1-C2	-13.00	115.10	120.30
1	6	160	C	N3-C4-C5	13.00	127.10	121.90
36	1	635	G	C4-C5-N7	13.00	116.00	110.80
36	1	2353	G	C6-C5-N7	-12.99	122.60	130.40
36	5	578	A	N9-C4-C5	12.97	110.99	105.80
36	5	2943	G	C6-C5-N7	-12.96	122.62	130.40
36	1	423	A	N1-C2-N3	12.95	135.77	129.30
1	6	621	A	N1-C6-N6	-12.94	110.84	118.60
36	5	2932	U	N3-C4-O4	-12.94	110.34	119.40
36	1	2880	U	C5-C4-O4	12.94	133.66	125.90
1	6	1506	G	O5'-P-OP1	-12.94	94.06	105.70
36	1	2811	A	C5-C6-N6	-12.92	113.36	123.70
36	5	669	U	N3-C2-O2	-12.90	113.17	122.20
36	1	596	C	N3-C2-O2	-12.90	112.87	121.90
36	1	2368	A	N1-C6-N6	12.89	126.33	118.60
36	1	1433	A	C6-N1-C2	-12.89	110.87	118.60
1	6	1025	A	N1-C6-N6	12.87	126.32	118.60
36	5	1303	A	O5'-P-OP1	-12.86	94.12	105.70
36	5	2942	C	C5-C4-N4	12.87	129.21	120.20
36	5	929	A	C2-N3-C4	12.86	117.03	110.60
36	5	2400	G	C8-N9-C1'	12.86	143.72	127.00
1	6	1614	A	N1-C6-N6	12.85	126.31	118.60
36	5	1165	A	N7-C8-N9	12.84	120.22	113.80
1	6	1484	G	O5'-P-OP1	-12.83	94.15	105.70
36	1	101	G	C6-C5-N7	-12.83	122.70	130.40
1	6	321	C	C6-N1-C2	-12.83	115.17	120.30
36	1	2939	G	C5-N7-C8	12.82	110.71	104.30
36	5	1295	G	C6-C5-N7	-12.82	122.70	130.40
36	5	2310	U	O5'-P-OP1	-12.82	94.16	105.70
36	5	2353	G	C8-N9-C4	-12.82	101.27	106.40
37	3	7	G	N1-C6-O6	-12.82	112.21	119.90
1	6	1100	G	C8-N9-C4	12.82	111.53	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2305	G	N9-C4-C5	12.82	110.53	105.40
36	1	3217	C	N1-C2-O2	12.81	126.58	118.90
36	5	1403	C	C6-N1-C2	12.80	125.42	120.30
36	1	780	A	N1-C6-N6	-12.79	110.92	118.60
36	1	101	G	C5-C6-O6	-12.79	120.93	128.60
36	1	2334	U	O5'-P-OP2	-12.78	94.20	105.70
36	5	1198	C	N3-C2-O2	-12.77	112.96	121.90
36	5	2897	A	N1-C6-N6	12.77	126.26	118.60
36	5	1365	G	N3-C2-N2	-12.77	110.96	119.90
36	1	2953	U	C6-N1-C2	-12.77	113.34	121.00
36	1	2980	U	N1-C2-N3	12.76	122.56	114.90
36	1	942	U	N3-C4-O4	12.75	128.33	119.40
36	1	69	C	O5'-P-OP1	-12.75	94.22	105.70
36	1	651	G	C5-C6-O6	-12.75	120.95	128.60
36	1	938	C	C6-N1-C2	-12.74	115.20	120.30
36	5	1156	C	C5-C6-N1	12.73	127.37	121.00
36	1	3181	C	C6-N1-C2	-12.73	115.21	120.30
36	5	2811	A	C6-N1-C2	-12.73	110.97	118.60
36	5	1310	G	C4-C5-N7	12.72	115.89	110.80
1	6	1470	C	C6-N1-C2	-12.70	115.22	120.30
1	6	1607	G	O5'-P-OP1	-12.70	94.27	105.70
36	5	2353	G	C5-C6-O6	-12.70	120.98	128.60
36	5	639	G	C2-N3-C4	-12.70	105.55	111.90
36	1	937	G	C4-C5-N7	12.69	115.88	110.80
36	5	911	C	C2-N3-C4	-12.68	113.56	119.90
36	5	2278	C	O5'-P-OP2	-12.68	94.29	105.70
1	2	1291	G	N7-C8-N9	12.68	119.44	113.10
1	6	163	G	C2-N3-C4	-12.68	105.56	111.90
1	6	419	G	O5'-P-OP1	-12.68	94.29	105.70
36	5	2950	G	C4-C5-N7	12.68	115.87	110.80
1	6	321	C	N3-C2-O2	-12.67	113.03	121.90
1	6	1494	C	C6-N1-C2	-12.67	115.23	120.30
36	5	2936	A	C5-C6-N1	12.65	124.02	117.70
36	5	2412	G	C8-N9-C4	-12.64	101.34	106.40
36	5	2875	U	N3-C2-O2	-12.64	113.35	122.20
36	1	2197	C	N3-C4-C5	12.63	126.95	121.90
36	1	1594	A	N9-C4-C5	12.63	110.85	105.80
36	5	2799	A	N1-C2-N3	12.63	135.61	129.30
1	6	1640	C	N1-C2-O2	12.62	126.47	118.90
36	5	2943	G	C4-C5-N7	12.62	115.85	110.80
36	5	2886	U	C5-C6-N1	-12.62	116.39	122.70
1	6	608	U	N3-C2-O2	-12.60	113.38	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	583	G	C5-C6-O6	12.59	136.16	128.60
36	1	780	A	C8-N9-C4	-12.59	100.77	105.80
36	1	1905	G	N9-C4-C5	12.59	110.44	105.40
36	5	1295	G	N1-C6-O6	12.59	127.45	119.90
36	1	1487	G	C8-N9-C4	-12.59	101.37	106.40
36	1	1556	C	N3-C2-O2	-12.58	113.09	121.90
36	1	2314	U	C5-C4-O4	-12.58	118.35	125.90
36	1	2385	G	N1-C6-O6	12.57	127.44	119.90
36	1	3075	G	N1-C6-O6	12.57	127.44	119.90
36	5	2847	A	N1-C6-N6	12.57	126.14	118.60
36	5	2611	U	N3-C4-C5	-12.56	107.06	114.60
36	1	751	A	C8-N9-C4	-12.55	100.78	105.80
36	1	2772	C	C2-N1-C1'	12.55	132.60	118.80
1	2	331	A	N1-C6-N6	-12.53	111.08	118.60
37	7	49	G	C5-C6-N1	-12.53	105.24	111.50
36	5	404	G	C5-C6-N1	-12.53	105.24	111.50
36	5	2978	U	O5'-P-OP2	-12.53	94.43	105.70
36	5	650	C	N3-C4-C5	12.52	126.91	121.90
36	5	2875	U	C6-N1-C2	-12.52	113.49	121.00
36	5	3026	G	C6-C5-N7	-12.51	122.89	130.40
37	7	44	C	N1-C2-N3	-12.51	110.44	119.20
36	5	1520	G	N3-C4-C5	-12.51	122.34	128.60
36	1	648	C	O5'-P-OP1	-12.46	94.48	105.70
36	1	2613	U	N3-C4-C5	-12.45	107.13	114.60
1	6	1640	C	C2-N1-C1'	12.45	132.50	118.80
36	1	1208	U	N1-C2-O2	12.45	131.51	122.80
36	5	2935	U	C5-C6-N1	12.44	128.92	122.70
36	1	1500	G	C4-C5-N7	12.44	115.77	110.80
36	1	3278	C	N1-C2-O2	12.43	126.36	118.90
36	1	65	A	C8-N9-C4	12.43	110.77	105.80
36	5	2705	A	N1-C6-N6	-12.43	111.14	118.60
36	5	2393	G	N1-C6-O6	12.42	127.35	119.90
36	1	3186	A	N1-C6-N6	-12.42	111.15	118.60
36	5	363	G	C6-C5-N7	-12.41	122.95	130.40
36	1	1120	A	O5'-P-OP1	-12.41	94.53	105.70
36	5	1198	C	C6-N1-C2	-12.40	115.34	120.30
36	5	1848	G	C8-N9-C4	12.40	111.36	106.40
36	1	3248	C	O5'-P-OP1	-12.40	94.54	105.70
36	1	964	G	C4-C5-N7	12.38	115.75	110.80
36	1	3093	C	N3-C4-C5	-12.38	116.95	121.90
36	5	874	U	N3-C4-C5	-12.37	107.18	114.60
36	1	3132	C	C6-N1-C2	12.36	125.25	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1424	C	N3-C4-C5	-12.36	116.96	121.90
36	5	2199	G	C6-C5-N7	-12.35	122.99	130.40
36	5	2620	G	N9-C4-C5	12.35	110.34	105.40
36	5	2947	G	C5-C6-O6	-12.34	121.19	128.60
36	1	2306	C	N1-C2-O2	12.34	126.30	118.90
36	5	2397	A	C2-N3-C4	-12.33	104.43	110.60
1	2	1212	G	N1-C6-O6	12.33	127.30	119.90
36	5	971	G	C5-C6-O6	12.33	136.00	128.60
36	5	3067	C	C5-C6-N1	-12.33	114.84	121.00
36	5	1127	G	C2-N3-C4	12.32	118.06	111.90
36	5	2119	A	N1-C6-N6	12.32	125.99	118.60
36	5	2346	C	N3-C4-C5	-12.32	116.97	121.90
36	1	2874	G	N3-C4-C5	-12.31	122.44	128.60
1	6	1191	U	N3-C2-O2	-12.31	113.58	122.20
36	1	873	C	C6-N1-C2	-12.31	115.38	120.30
36	5	2610	G	N3-C2-N2	-12.31	111.28	119.90
36	1	2827	U	C5-C4-O4	12.30	133.28	125.90
36	1	2869	U	C5-C4-O4	-12.30	118.52	125.90
36	1	2639	G	N3-C4-N9	-12.29	118.62	126.00
36	5	2707	C	N3-C4-C5	12.29	126.82	121.90
36	1	397	A	N1-C6-N6	-12.29	111.23	118.60
36	5	363	G	N1-C6-O6	12.28	127.27	119.90
36	5	940	G	N1-C6-O6	-12.28	112.53	119.90
36	5	3140	G	N1-C6-O6	12.27	127.26	119.90
36	5	1137	C	O5'-P-OP2	-12.26	94.67	105.70
36	1	2403	G	C5-C6-O6	-12.26	121.25	128.60
37	3	98	C	C2-N3-C4	-12.24	113.78	119.90
36	1	638	C	O5'-P-OP2	-12.22	94.70	105.70
36	1	2831	G	C6-C5-N7	-12.22	123.07	130.40
36	1	2359	C	N3-C4-C5	-12.20	117.02	121.90
37	7	76	A	O5'-P-OP2	-12.20	94.72	105.70
36	5	2757	U	O5'-P-OP1	-12.20	94.72	105.70
36	5	3129	A	C2-N3-C4	-12.20	104.50	110.60
36	5	942	U	N3-C4-O4	12.18	127.93	119.40
36	1	1720	U	N3-C2-O2	-12.18	113.67	122.20
36	5	802	C	N3-C4-C5	12.17	126.77	121.90
36	1	1901	A	C5-C6-N1	12.17	123.79	117.70
36	1	2380	U	C5-C6-N1	-12.17	116.61	122.70
36	5	2880	U	C5-C4-O4	12.17	133.20	125.90
1	6	1457	C	N3-C2-O2	-12.16	113.39	121.90
37	3	97	A	C8-N9-C4	12.16	110.67	105.80
36	5	3026	G	N1-C6-O6	12.16	127.20	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3067	C	C6-N1-C2	12.16	125.17	120.30
1	6	1622	G	N1-C6-O6	12.16	127.20	119.90
36	5	1166	G	C4-C5-N7	12.16	115.66	110.80
36	5	951	A	N1-C6-N6	-12.15	111.31	118.60
36	5	424	G	C4-C5-N7	12.15	115.66	110.80
36	1	3142	A	N1-C6-N6	-12.14	111.32	118.60
36	5	1883	A	N1-C2-N3	12.13	135.37	129.30
36	1	628	A	N1-C2-N3	12.12	135.36	129.30
36	5	1152	G	N3-C2-N2	-12.12	111.42	119.90
36	5	2848	G	O5'-P-OP1	-12.12	94.79	105.70
36	1	1061	A	C8-N9-C4	12.12	110.65	105.80
36	5	2263	C	C6-N1-C2	-12.11	115.46	120.30
36	5	957	C	C6-N1-C2	-12.11	115.46	120.30
36	1	1392	G	C5-C6-O6	12.10	135.86	128.60
36	5	2950	G	N1-C6-O6	12.10	127.16	119.90
36	5	3245	A	C4-C5-N7	12.10	116.75	110.70
1	6	338	C	C6-N1-C2	-12.10	115.46	120.30
36	1	2325	G	C6-C5-N7	-12.10	123.14	130.40
1	6	1753	A	C2-N3-C4	12.10	116.65	110.60
36	5	1489	A	N1-C2-N3	12.09	135.35	129.30
36	5	1879	A	O5'-P-OP1	12.08	125.19	110.70
36	5	2656	A	N1-C6-N6	-12.07	111.36	118.60
36	5	2136	C	N3-C4-C5	-12.07	117.07	121.90
1	6	1634	C	N1-C2-O2	12.06	126.14	118.90
36	1	28	C	C5-C6-N1	-12.06	114.97	121.00
36	1	1182	A	C8-N9-C4	12.06	110.62	105.80
36	1	281	G	C8-N9-C4	-12.05	101.58	106.40
36	5	2188	A	O5'-P-OP1	-12.05	94.85	105.70
36	5	50	U	N3-C2-O2	-12.05	113.76	122.20
36	1	1178	G	N3-C2-N2	12.05	128.33	119.90
36	1	28	C	C6-N1-C2	12.04	125.12	120.30
36	5	639	G	N1-C2-N3	12.04	131.13	123.90
36	5	1481	A	C8-N9-C4	-12.04	100.98	105.80
36	5	2353	G	N7-C8-N9	12.04	119.12	113.10
36	1	2377	G	N1-C6-O6	-12.02	112.69	119.90
36	1	1482	A	N1-C6-N6	12.02	125.81	118.60
36	1	2881	C	C6-N1-C2	12.02	125.11	120.30
1	6	140	A	C8-N9-C4	-12.02	100.99	105.80
36	1	2943	G	N1-C6-O6	12.01	127.11	119.90
36	1	1448	U	C5-C6-N1	-12.01	116.70	122.70
36	1	2727	A	C8-N9-C4	-12.01	101.00	105.80
36	5	2724	U	O5'-P-OP2	-12.01	94.89	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1456	C	N3-C4-C5	-12.00	117.10	121.90
36	1	1429	G	N1-C2-N2	-12.00	105.40	116.20
36	1	2199	G	N3-C4-C5	-12.00	122.60	128.60
36	1	2772	C	C6-N1-C1'	-12.00	106.40	120.80
36	1	2930	A	N1-C6-N6	12.00	125.80	118.60
36	5	1212	A	C5-N7-C8	-11.99	97.90	103.90
36	5	3125	U	C5-C4-O4	11.99	133.09	125.90
36	5	1149	G	N7-C8-N9	11.98	119.09	113.10
1	6	1535	U	N3-C4-O4	-11.98	111.02	119.40
36	1	35	A	N1-C6-N6	11.97	125.78	118.60
36	5	2816	G	N3-C4-N9	-11.97	118.81	126.00
36	5	1520	G	N3-C4-N9	11.97	133.18	126.00
36	1	1594	A	C8-N9-C4	-11.97	101.01	105.80
1	6	1535	U	C5-C4-O4	11.97	133.08	125.90
1	6	1524	A	C8-N9-C4	-11.97	101.01	105.80
36	1	1846	C	N1-C2-O2	-11.96	111.72	118.90
36	1	2871	G	N1-C6-O6	11.95	127.07	119.90
36	1	2241	U	N3-C4-C5	-11.95	107.43	114.60
36	5	2929	C	C5-C4-N4	-11.95	111.83	120.20
36	1	1542	G	C5-N7-C8	-11.95	98.33	104.30
1	6	139	C	C6-N1-C2	-11.95	115.52	120.30
1	2	1455	G	C5-C6-N1	-11.94	105.53	111.50
36	1	2363	A	O5'-P-OP1	-11.93	94.97	105.70
1	6	1137	A	N7-C8-N9	-11.93	107.84	113.80
1	6	29	U	N3-C2-O2	-11.92	113.85	122.20
36	1	2705	A	N1-C6-N6	-11.92	111.45	118.60
1	6	1121	C	O5'-P-OP2	-11.92	94.97	105.70
36	5	1901	A	C2-N3-C4	11.91	116.56	110.60
1	6	431	C	N1-C2-O2	-11.91	111.76	118.90
37	3	88	G	C8-N9-C4	-11.90	101.64	106.40
36	5	3242	G	O5'-P-OP2	-11.90	94.99	105.70
36	1	2159	U	N1-C2-O2	11.90	131.13	122.80
36	1	1333	C	O5'-P-OP2	-11.90	94.99	105.70
37	7	109	G	C4-C5-N7	11.90	115.56	110.80
36	5	2728	G	O5'-P-OP2	-11.90	94.99	105.70
1	6	321	C	N1-C2-O2	11.89	126.03	118.90
1	2	1600	A	N1-C6-N6	11.88	125.73	118.60
36	5	1906	G	N1-C6-O6	-11.88	112.77	119.90
36	5	3146	G	N9-C4-C5	-11.88	100.65	105.40
36	1	1542	G	C5-C6-O6	-11.88	121.47	128.60
38	4	26	U	C4-C5-C6	11.87	126.82	119.70
1	6	597	G	N1-C6-O6	11.86	127.02	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	827	A	C8-N9-C4	-11.86	101.06	105.80
38	4	140	G	C8-N9-C4	-11.85	101.66	106.40
36	1	2407	C	N1-C2-O2	-11.85	111.79	118.90
1	6	1418	G	C5-C6-N1	-11.84	105.58	111.50
36	5	96	G	N3-C4-C5	11.82	134.51	128.60
38	8	107	G	N1-C6-O6	11.82	126.99	119.90
36	5	1940	G	O5'-P-OP2	-11.82	95.06	105.70
36	5	994	G	C8-N9-C4	11.81	111.12	106.40
36	1	1386	A	N9-C4-C5	11.80	110.52	105.80
1	2	566	C	C6-N1-C2	11.80	125.02	120.30
36	1	2417	U	N1-C2-O2	-11.80	114.54	122.80
36	5	2117	A	N1-C2-N3	11.80	135.20	129.30
36	5	3182	G	N1-C6-O6	-11.80	112.82	119.90
36	1	806	A	C8-N9-C4	11.79	110.52	105.80
36	1	2942	C	N3-C4-N4	11.79	126.26	118.00
37	7	15	C	C6-N1-C2	-11.79	115.58	120.30
36	1	2352	A	C5-C6-N6	-11.79	114.27	123.70
36	5	1152	G	N9-C4-C5	11.79	110.12	105.40
36	5	2874	G	C8-N9-C4	-11.78	101.69	106.40
36	1	2880	U	N1-C2-N3	11.78	121.97	114.90
36	5	61	A	C5-C6-N6	11.78	133.12	123.70
36	5	1794	G	C8-N9-C4	11.78	111.11	106.40
36	5	2415	C	N3-C4-C5	-11.78	117.19	121.90
36	1	2919	A	C5-C6-N1	-11.77	111.81	117.70
36	5	2794	G	C5-C6-N1	11.77	117.39	111.50
1	6	1747	G	O5'-P-OP2	-11.77	95.11	105.70
36	1	2305	G	C5-C6-O6	11.77	135.66	128.60
36	1	2635	A	C8-N9-C4	-11.77	101.09	105.80
36	5	1379	G	N1-C2-N3	11.76	130.96	123.90
36	1	3209	A	N1-C6-N6	11.76	125.66	118.60
36	5	986	U	N3-C2-O2	-11.76	113.97	122.20
36	5	61	A	N1-C6-N6	-11.76	111.55	118.60
36	5	1852	G	C4-C5-N7	11.76	115.50	110.80
36	1	636	C	N1-C2-O2	-11.75	111.85	118.90
36	1	3004	C	N1-C2-O2	-11.75	111.85	118.90
1	6	1098	U	O5'-P-OP1	-11.75	95.12	105.70
36	5	366	A	N1-C2-N3	11.75	135.18	129.30
36	5	3166	C	C6-N1-C2	-11.75	115.60	120.30
37	7	85	G	C5-C6-O6	-11.75	121.55	128.60
36	1	3210	A	N1-C6-N6	-11.75	111.55	118.60
1	6	1663	G	O5'-P-OP2	-11.75	95.13	105.70
36	5	632	G	O5'-P-OP1	11.75	124.80	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1166	G	C5-N7-C8	-11.75	98.43	104.30
36	5	2874	G	C4-C5-C6	11.75	125.85	118.80
36	5	1310	G	C5-C6-N1	11.73	117.37	111.50
36	5	1336	U	C5-C4-O4	-11.73	118.86	125.90
36	1	2831	G	C4-C5-N7	11.73	115.49	110.80
36	1	1500	G	N9-C4-C5	-11.72	100.71	105.40
36	1	2765	C	C6-N1-C2	-11.72	115.61	120.30
1	6	967	A	N1-C6-N6	11.72	125.63	118.60
1	6	301	A	N1-C6-N6	-11.71	111.57	118.60
36	5	3140	G	C4-C5-N7	11.71	115.48	110.80
36	5	409	A	O5'-P-OP2	-11.71	95.17	105.70
36	1	3076	C	C6-N1-C2	-11.70	115.62	120.30
36	1	2374	C	N3-C2-O2	-11.69	113.72	121.90
36	1	2831	G	C5-C6-N1	-11.67	105.66	111.50
36	1	3004	C	N3-C2-O2	11.67	130.07	121.90
38	4	70	G	O5'-P-OP2	-11.66	95.20	105.70
36	5	2353	G	C6-C5-N7	-11.66	123.40	130.40
36	5	3140	G	C6-C5-N7	-11.66	123.40	130.40
36	5	2278	C	N1-C2-N3	-11.66	111.04	119.20
36	5	2976	A	C6-N1-C2	-11.66	111.61	118.60
36	1	277	G	C2-N3-C4	11.65	117.73	111.90
36	5	648	C	C2-N3-C4	11.64	125.72	119.90
36	1	2831	G	C5-C6-O6	-11.64	121.62	128.60
36	5	2363	A	C5-C6-N6	11.64	133.01	123.70
52	M6	110	PRO	C-N-CD	-11.62	95.03	120.60
1	6	163	G	N3-C2-N2	-11.62	111.77	119.90
36	5	2632	G	N9-C4-C5	-11.62	100.75	105.40
1	6	1610	G	N3-C4-N9	11.62	132.97	126.00
36	1	1143	A	C2-N3-C4	-11.62	104.79	110.60
36	1	1905	G	N3-C2-N2	-11.60	111.78	119.90
36	5	2913	C	O5'-P-OP1	-11.60	95.26	105.70
36	5	515	C	C6-N1-C2	11.59	124.94	120.30
36	5	959	C	N3-C4-C5	-11.59	117.26	121.90
36	1	2813	A	N1-C6-N6	-11.59	111.65	118.60
38	4	20	U	N1-C2-O2	-11.59	114.69	122.80
36	5	2305	G	C5-C6-O6	11.58	135.55	128.60
36	1	2623	G	C4-C5-N7	11.58	115.43	110.80
36	1	2811	A	C4-C5-C6	11.58	122.79	117.00
36	5	2874	G	N3-C4-C5	-11.58	122.81	128.60
36	5	2892	A	O5'-P-OP2	-11.57	95.28	105.70
36	5	938	C	N3-C4-C5	11.57	126.53	121.90
36	1	2305	G	N9-C4-C5	11.56	110.03	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1537	C	N3-C4-C5	-11.56	117.27	121.90
36	5	1367	G	C4-N9-C1'	11.56	141.53	126.50
36	5	2758	A	O5'-P-OP2	-11.56	95.29	105.70
36	1	2618	G	C5-C6-O6	11.55	135.53	128.60
36	5	1372	C	C6-N1-C2	11.55	124.92	120.30
36	5	2308	C	N1-C2-O2	-11.55	111.97	118.90
37	7	85	G	N1-C6-O6	11.56	126.83	119.90
36	5	1450	G	C8-N9-C4	-11.55	101.78	106.40
36	1	1493	G	N1-C6-O6	-11.55	112.97	119.90
36	5	2877	G	N3-C4-C5	-11.55	122.83	128.60
36	1	937	G	C5-C6-O6	-11.55	121.67	128.60
36	5	608	A	N1-C6-N6	11.55	125.53	118.60
36	1	2409	G	C4-N9-C1'	11.55	141.51	126.50
36	1	2877	G	N3-C4-N9	-11.54	119.07	126.00
36	5	1208	U	N3-C4-O4	-11.53	111.33	119.40
1	6	78	A	N1-C6-N6	-11.52	111.69	118.60
36	5	2665	U	C5-C4-O4	-11.52	118.99	125.90
36	1	2368	A	C5-C6-N6	-11.52	114.49	123.70
36	1	2382	G	N1-C6-O6	-11.52	112.99	119.90
36	5	2400	G	N3-C4-C5	11.52	134.36	128.60
36	1	1380	G	C2-N3-C4	-11.51	106.14	111.90
38	4	26	U	N1-C2-N3	11.51	121.81	114.90
36	5	1894	U	C5-C4-O4	-11.51	118.99	125.90
36	5	3245	A	C6-C5-N7	-11.51	124.25	132.30
36	1	612	U	C5-C6-N1	-11.50	116.95	122.70
1	6	1131	A	C6-C5-N7	-11.50	124.25	132.30
36	5	2617	U	C6-N1-C2	-11.50	114.10	121.00
1	6	385	A	N1-C6-N6	-11.50	111.70	118.60
36	5	2308	C	O5'-P-OP1	-11.49	95.35	105.70
36	1	2396	G	C8-N9-C4	-11.49	101.80	106.40
1	6	1631	A	O5'-P-OP1	-11.49	95.36	105.70
1	2	577	G	N1-C6-O6	11.48	126.79	119.90
37	3	106	U	O5'-P-OP1	-11.48	95.37	105.70
36	5	521	A	C2-N3-C4	-11.48	104.86	110.60
36	5	2875	U	N1-C2-N3	11.48	121.79	114.90
36	5	3061	G	N1-C6-O6	11.48	126.79	119.90
36	1	2869	U	N3-C4-O4	11.47	127.43	119.40
36	5	3146	G	C4-C5-N7	11.47	115.39	110.80
36	1	608	A	C5-C6-N6	-11.46	114.53	123.70
36	5	1114	U	N3-C4-C5	-11.46	107.72	114.60
36	5	2400	G	N1-C2-N2	11.45	126.51	116.20
36	1	1888	U	N3-C2-O2	-11.45	114.18	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2377	G	C5-C6-N1	11.45	117.23	111.50
36	1	1100	U	C5-C6-N1	-11.44	116.98	122.70
36	5	2173	U	O5'-P-OP2	-11.44	95.40	105.70
36	5	2411	U	C5-C4-O4	-11.44	119.03	125.90
36	1	1149	G	C4-C5-C6	11.44	125.67	118.80
36	5	2197	C	C6-N1-C2	11.44	124.88	120.30
36	5	256	G	C8-N9-C4	-11.44	101.83	106.40
36	5	1306	G	C8-N9-C4	-11.44	101.83	106.40
36	1	408	A	N1-C2-N3	11.43	135.02	129.30
36	5	330	G	N9-C4-C5	-11.43	100.83	105.40
1	6	163	G	N3-C4-C5	11.43	134.32	128.60
1	6	1773	C	N3-C4-C5	-11.43	117.33	121.90
36	1	1050	U	N3-C2-O2	-11.43	114.20	122.20
36	5	1317	A	C5-C6-N1	11.43	123.41	117.70
36	1	1152	G	N1-C6-O6	-11.41	113.05	119.90
1	6	991	G	O5'-P-OP2	-11.41	95.43	105.70
38	4	5	U	C6-N1-C2	11.41	127.85	121.00
36	5	695	C	C5-C6-N1	-11.41	115.30	121.00
36	1	1851	G	N1-C6-O6	11.41	126.74	119.90
1	6	927	C	N1-C2-O2	11.41	125.74	118.90
1	2	1773	C	C6-N1-C2	-11.40	115.74	120.30
1	2	1006	C	N1-C2-O2	11.40	125.74	118.90
36	5	2376	G	C5-N7-C8	-11.40	98.60	104.30
1	6	26	A	C5-C6-N1	11.39	123.40	117.70
36	5	2283	G	C4-C5-N7	11.39	115.36	110.80
36	5	1408	G	C6-C5-N7	-11.39	123.57	130.40
36	1	2623	G	C2-N3-C4	-11.39	106.21	111.90
36	5	884	A	C4-C5-N7	11.38	116.39	110.70
36	5	2799	A	C6-N1-C2	-11.38	111.77	118.60
36	5	2953	U	N3-C4-C5	-11.38	107.77	114.60
1	2	1457	C	O5'-P-OP2	-11.38	95.46	105.70
36	1	2625	C	N3-C4-C5	11.38	126.45	121.90
36	1	933	A	C4-C5-C6	11.37	122.69	117.00
36	5	2920	U	N3-C4-O4	-11.37	111.44	119.40
38	4	16	G	O5'-P-OP2	-11.37	95.47	105.70
36	5	1307	G	C6-C5-N7	-11.36	123.58	130.40
36	5	1108	U	N3-C2-O2	-11.36	114.25	122.20
36	1	1520	G	N1-C6-O6	11.36	126.72	119.90
36	5	1379	G	C6-C5-N7	-11.36	123.58	130.40
36	5	2726	C	C5-C4-N4	11.36	128.15	120.20
36	5	187	A	C8-N9-C4	-11.36	101.26	105.80
36	1	1542	G	C6-C5-N7	-11.36	123.59	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	633	U	N3-C2-O2	-11.35	114.26	122.20
1	2	1212	G	C6-C5-N7	-11.34	123.59	130.40
36	5	2957	G	C2-N3-C4	-11.34	106.23	111.90
37	7	44	C	N3-C2-O2	11.34	129.84	121.90
36	1	1149	G	C5-C6-N1	-11.34	105.83	111.50
37	7	105	C	C6-N1-C2	-11.34	115.77	120.30
36	1	2402	A	O4'-C1'-N9	11.33	117.27	108.20
36	1	2257	C	C2-N1-C1'	11.32	131.26	118.80
1	6	96	G	C8-N9-C4	-11.32	101.87	106.40
36	1	2930	A	C8-N9-C4	11.32	110.33	105.80
36	5	2700	G	C5-C6-N1	11.32	117.16	111.50
36	5	568	G	C5-C6-O6	-11.32	121.81	128.60
36	1	595	G	O5'-P-OP1	-11.31	95.52	105.70
36	1	2241	U	O5'-P-OP1	-11.31	95.52	105.70
36	5	1367	G	C4-C5-C6	11.30	125.58	118.80
36	1	964	G	N1-C6-O6	11.30	126.68	119.90
36	5	798	G	N1-C6-O6	11.30	126.68	119.90
36	1	2148	U	O5'-P-OP2	-11.29	95.54	105.70
36	1	1312	C	N3-C4-C5	-11.29	117.39	121.90
36	1	652	G	N3-C4-C5	-11.29	122.96	128.60
36	1	890	C	N3-C2-O2	-11.28	114.01	121.90
36	5	2944	U	N3-C2-O2	-11.28	114.31	122.20
36	5	1902	G	N1-C6-O6	11.28	126.67	119.90
36	5	630	A	C8-N9-C4	11.27	110.31	105.80
36	5	2715	A	C4-C5-N7	-11.27	105.07	110.70
36	5	437	G	N7-C8-N9	11.27	118.73	113.10
36	1	427	C	N3-C4-N4	11.26	125.88	118.00
1	6	1778	G	C5-N7-C8	-11.26	98.67	104.30
1	6	1556	A	C8-N9-C4	11.26	110.30	105.80
36	5	1585	C	C6-N1-C2	-11.26	115.80	120.30
36	5	3092	C	C5-C4-N4	-11.26	112.32	120.20
38	8	138	A	N1-C6-N6	-11.26	111.84	118.60
37	7	104	A	O5'-P-OP1	11.26	124.21	110.70
36	5	2620	G	C8-N9-C4	-11.26	101.90	106.40
36	5	1385	C	C6-N1-C2	-11.25	115.80	120.30
36	1	1198	C	O5'-P-OP1	-11.24	95.58	105.70
1	6	1108	G	O5'-P-OP2	-11.24	95.58	105.70
36	5	832	G	N1-C6-O6	-11.24	113.15	119.90
36	5	842	G	C8-N9-C4	11.24	110.90	106.40
1	6	583	C	C6-N1-C2	-11.24	115.81	120.30
36	1	198	A	C8-N9-C4	-11.23	101.31	105.80
36	5	1060	U	C5-C6-N1	-11.23	117.09	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	99	C	N1-C2-O2	11.23	125.64	118.90
36	5	2727	A	N1-C6-N6	-11.23	111.86	118.60
36	5	816	A	O5'-P-OP2	-11.22	95.60	105.70
36	5	96	G	C2-N3-C4	-11.22	106.29	111.90
36	5	1589	A	C4-C5-N7	11.21	116.31	110.70
36	1	2887	A	C8-N9-C4	-11.21	101.31	105.80
36	5	640	U	N1-C2-O2	-11.21	114.96	122.80
36	1	3176	G	N1-C6-O6	11.20	126.62	119.90
36	1	780	A	O5'-P-OP2	-11.19	95.63	105.70
36	1	3180	A	N1-C6-N6	-11.19	111.89	118.60
36	5	3140	G	C5-C6-O6	-11.19	121.89	128.60
36	5	939	U	OP1-P-OP2	-11.19	102.82	119.60
36	5	3019	U	N3-C2-O2	-11.19	114.37	122.20
36	1	1149	G	C6-C5-N7	-11.18	123.69	130.40
36	1	93	C	N1-C2-N3	-11.18	111.38	119.20
36	5	2199	G	C4-C5-C6	11.18	125.51	118.80
36	1	2197	C	C6-N1-C2	11.18	124.77	120.30
36	1	2613	U	N1-C2-N3	11.18	121.61	114.90
36	1	929	A	N1-C6-N6	11.17	125.30	118.60
36	1	1901	A	C6-N1-C2	-11.17	111.90	118.60
36	5	1199	C	O5'-P-OP2	-11.17	95.64	105.70
1	2	1273	G	O5'-P-OP1	-11.16	95.65	105.70
36	1	146	U	N1-C2-O2	11.16	130.61	122.80
36	1	1173	U	O5'-P-OP2	-11.16	95.66	105.70
36	5	3242	G	N1-C6-O6	-11.16	113.21	119.90
36	1	2623	G	C5-C6-O6	-11.15	121.91	128.60
36	5	637	C	C6-N1-C2	11.15	124.76	120.30
36	5	3012	A	C5-C6-N6	-11.15	114.78	123.70
36	1	2622	C	N3-C2-O2	-11.15	114.10	121.90
36	1	423	A	N9-C4-C5	11.15	110.26	105.80
36	1	1442	U	N3-C4-O4	11.15	127.20	119.40
36	5	3326	G	C8-N9-C4	11.15	110.86	106.40
1	2	1615	C	N1-C2-O2	11.14	125.59	118.90
37	7	45	A	N1-C2-N3	11.14	134.87	129.30
1	6	1645	G	N3-C4-N9	11.14	132.69	126.00
36	5	3144	G	N1-C2-N3	11.14	130.58	123.90
36	1	1448	U	C2-N3-C4	-11.14	120.32	127.00
36	1	2936	A	N1-C6-N6	-11.14	111.92	118.60
36	5	2402	A	N1-C2-N3	11.14	134.87	129.30
1	6	996	U	C5-C6-N1	11.13	128.27	122.70
36	1	2644	C	C5-C6-N1	-11.13	115.43	121.00
36	1	1306	G	C6-C5-N7	-11.13	123.72	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	994	G	N1-C6-O6	11.13	126.58	119.90
1	6	144	U	N3-C2-O2	-11.13	114.41	122.20
36	5	2280	A	N1-C6-N6	11.12	125.28	118.60
36	1	2818	U	O5'-P-OP2	-11.12	95.69	105.70
36	1	908	G	C8-N9-C4	-11.12	101.95	106.40
36	1	1393	A	N1-C2-N3	11.12	134.86	129.30
36	1	2168	A	N9-C4-C5	11.12	110.25	105.80
1	6	1781	A	C8-N9-C4	-11.12	101.35	105.80
36	5	2940	A	N7-C8-N9	11.12	119.36	113.80
36	1	2948	C	C6-N1-C2	-11.12	115.85	120.30
36	5	1142	G	C8-N9-C4	-11.11	101.95	106.40
36	5	2382	G	N3-C4-N9	-11.11	119.33	126.00
36	5	2931	C	N3-C4-C5	11.11	126.34	121.90
36	1	2380	U	C2-N3-C4	-11.11	120.34	127.00
36	5	2512	C	C6-N1-C2	11.11	124.74	120.30
36	1	3096	C	C6-N1-C2	-11.10	115.86	120.30
36	1	798	G	C5-N7-C8	-11.10	98.75	104.30
36	5	1527	C	C6-N1-C2	11.10	124.74	120.30
36	1	585	A	C6-N1-C2	-11.10	111.94	118.60
36	5	2346	C	N3-C4-N4	11.09	125.76	118.00
36	1	1411	C	N3-C2-O2	-11.09	114.14	121.90
36	1	806	A	N1-C2-N3	11.08	134.84	129.30
1	6	1753	A	C8-N9-C4	-11.08	101.37	105.80
38	4	5	U	C5-C6-N1	-11.08	117.16	122.70
36	5	1430	U	C5-C6-N1	-11.08	117.16	122.70
36	5	1441	G	O5'-P-OP1	-11.08	95.73	105.70
36	5	1321	G	N3-C2-N2	-11.07	112.15	119.90
37	7	88	G	C8-N9-C4	-11.07	101.97	106.40
36	5	1323	G	C8-N9-C4	-11.07	101.97	106.40
1	2	1486	G	C4-N9-C1'	11.07	140.89	126.50
36	1	89	A	N1-C2-N3	11.07	134.83	129.30
36	1	2396	G	N7-C8-N9	11.07	118.64	113.10
36	1	796	U	O5'-P-OP1	-11.07	95.74	105.70
36	5	578	A	C5-C6-N6	11.07	132.55	123.70
36	5	2886	U	N1-C2-N3	11.06	121.54	114.90
36	5	842	G	C5-C6-N1	11.06	117.03	111.50
36	1	2356	A	C8-N9-C4	-11.06	101.38	105.80
36	5	517	G	N1-C6-O6	11.06	126.54	119.90
67	o1	97	LEU	CA-CB-CG	-11.06	89.86	115.30
36	5	927	C	C5-C4-N4	-11.06	112.46	120.20
36	5	2816	G	N3-C2-N2	-11.06	112.16	119.90
36	5	3061	G	C5-C6-O6	-11.05	121.97	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3122	A	C5-N7-C8	-11.05	98.38	103.90
36	1	2399	A	N1-C6-N6	11.05	125.23	118.60
36	1	1306	G	N1-C6-O6	11.04	126.53	119.90
36	5	1292	C	C6-N1-C2	11.04	124.72	120.30
36	5	66	A	C8-N9-C4	11.04	110.22	105.80
36	5	2863	G	N3-C4-N9	-11.04	119.38	126.00
36	5	3383	G	C5-C6-O6	-11.04	121.98	128.60
36	1	1120	A	C6-N1-C2	-11.04	111.98	118.60
36	5	2895	G	N1-C2-N3	11.04	130.52	123.90
36	1	3274	A	C8-N9-C4	-11.03	101.39	105.80
36	5	928	C	O5'-P-OP2	-11.04	95.77	105.70
1	6	1777	G	C6-C5-N7	-11.03	123.78	130.40
36	5	2298	U	N3-C2-O2	-11.03	114.48	122.20
36	5	2943	G	C5-C6-O6	-11.03	121.98	128.60
1	6	576	G	N1-C6-O6	11.02	126.52	119.90
36	5	1852	G	N1-C6-O6	11.02	126.51	119.90
38	4	94	C	N3-C4-C5	11.02	126.31	121.90
36	5	638	C	C6-N1-C2	-11.02	115.89	120.30
36	1	1442	U	N3-C2-O2	11.01	129.91	122.20
36	1	1658	G	N3-C2-N2	-11.01	112.19	119.90
36	1	2187	G	C5-C6-O6	11.01	135.21	128.60
36	1	3208	G	N3-C4-N9	11.01	132.61	126.00
36	5	3393	U	C5-C6-N1	-11.01	117.19	122.70
36	5	994	G	C6-C5-N7	-11.01	123.80	130.40
36	1	220	G	C5-C6-N1	-11.01	106.00	111.50
36	1	2927	C	N3-C2-O2	11.01	129.60	121.90
36	5	933	A	O5'-P-OP2	-11.01	95.79	105.70
36	5	1307	G	N1-C6-O6	11.01	126.50	119.90
36	5	1435	A	N1-C6-N6	-11.01	112.00	118.60
36	5	2278	C	C5-C4-N4	-11.01	112.50	120.20
36	5	2879	C	N1-C2-O2	-11.01	112.30	118.90
36	5	3206	C	N3-C2-O2	-11.01	114.20	121.90
36	5	994	G	N3-C4-N9	11.00	132.60	126.00
36	1	693	A	O5'-P-OP1	-11.00	95.80	105.70
36	5	1927	G	O5'-P-OP2	-10.99	95.81	105.70
36	5	2741	C	C6-N1-C2	-10.99	115.90	120.30
36	1	2093	A	C2-N3-C4	10.99	116.10	110.60
36	1	1050	U	C5-C6-N1	-10.99	117.20	122.70
36	1	3025	C	O5'-P-OP1	-10.99	95.81	105.70
36	5	2149	A	C2-N3-C4	-10.98	105.11	110.60
36	5	2708	C	C5-C4-N4	-10.98	112.51	120.20
36	1	2727	A	C4-C5-N7	-10.98	105.21	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1139	G	N3-C4-N9	-10.98	119.41	126.00
36	5	2275	A	O5'-P-OP1	-10.98	95.82	105.70
36	1	1429	G	C8-N9-C4	10.98	110.79	106.40
36	1	2877	G	N9-C4-C5	10.98	109.79	105.40
36	5	2341	A	N1-C2-N3	10.98	134.79	129.30
36	5	2875	U	N3-C4-C5	-10.98	108.01	114.60
36	1	2199	G	N3-C4-N9	10.97	132.58	126.00
1	6	393	C	N3-C4-C5	10.97	126.29	121.90
36	5	2970	C	N3-C4-C5	-10.97	117.51	121.90
1	6	891	A	C8-N9-C4	10.97	110.19	105.80
36	5	644	G	C5-C6-O6	10.97	135.18	128.60
36	5	1149	G	C5-C6-O6	-10.97	122.02	128.60
36	5	854	G	N3-C2-N2	-10.96	112.22	119.90
36	1	2727	A	C5-C6-N6	10.96	132.47	123.70
36	1	1152	G	C5-C6-N1	10.96	116.98	111.50
36	1	35	A	C4-C5-N7	10.95	116.17	110.70
36	5	1152	G	C4-N9-C1'	-10.95	112.27	126.50
36	1	104	G	N1-C6-O6	10.94	126.47	119.90
36	5	2816	G	O5'-P-OP2	-10.94	95.85	105.70
1	6	1640	C	N3-C2-O2	-10.94	114.25	121.90
36	5	2341	A	C2-N3-C4	-10.94	105.13	110.60
36	5	2728	G	C6-C5-N7	-10.94	123.84	130.40
36	5	3140	G	C8-N9-C1'	-10.94	112.78	127.00
36	1	2363	A	C5-C6-N6	10.93	132.45	123.70
36	5	2376	G	N7-C8-N9	10.93	118.57	113.10
36	5	64	G	N7-C8-N9	10.93	118.57	113.10
36	1	585	A	N1-C2-N3	10.93	134.76	129.30
36	5	1902	G	O5'-P-OP1	-10.93	95.86	105.70
36	5	2296	A	C8-N9-C4	10.93	110.17	105.80
1	6	1637	C	N1-C2-O2	10.93	125.45	118.90
36	5	64	G	C8-N9-C4	-10.93	102.03	106.40
36	5	784	A	N1-C6-N6	10.92	125.16	118.60
36	1	2635	A	N9-C4-C5	10.92	110.17	105.80
1	6	697	C	C6-N1-C2	-10.92	115.93	120.30
36	5	3041	U	N3-C4-C5	10.92	121.15	114.60
38	8	38	U	C6-N1-C2	-10.92	114.45	121.00
36	1	25	U	N3-C4-C5	-10.91	108.05	114.60
36	5	2906	C	N3-C4-N4	10.91	125.64	118.00
36	1	2887	A	C5-C6-N1	10.91	123.16	117.70
38	4	99	C	C6-N1-C2	10.91	124.66	120.30
36	5	3146	G	C6-C5-N7	-10.91	123.85	130.40
36	1	2613	U	O5'-P-OP2	-10.90	95.89	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2661	G	C8-N9-C1'	-10.89	112.84	127.00
36	5	3091	A	C2-N3-C4	-10.89	105.15	110.60
36	5	1004	U	O5'-P-OP1	-10.89	95.90	105.70
36	5	3091	A	C6-C5-N7	-10.89	124.68	132.30
1	2	967	A	N1-C6-N6	10.88	125.13	118.60
36	5	1203	A	O5'-P-OP1	-10.88	95.90	105.70
36	1	1429	G	N1-C2-N3	10.88	130.43	123.90
36	5	1293	U	O5'-P-OP1	-10.88	95.91	105.70
36	5	2139	A	C6-N1-C2	-10.88	112.07	118.60
36	5	1178	G	N1-C6-O6	-10.88	113.37	119.90
36	5	2971	A	N1-C6-N6	-10.88	112.07	118.60
36	1	281	G	N9-C4-C5	10.87	109.75	105.40
36	1	1002	A	C8-N9-C4	10.87	110.15	105.80
36	1	2979	U	C2-N1-C1'	-10.87	104.65	117.70
36	1	423	A	C8-N9-C4	-10.87	101.45	105.80
36	5	2616	C	C6-N1-C2	-10.87	115.95	120.30
36	1	729	C	C6-N1-C2	-10.87	115.95	120.30
36	1	1178	G	C6-C5-N7	-10.86	123.88	130.40
36	5	639	G	C6-C5-N7	-10.86	123.89	130.40
36	5	2376	G	C8-N9-C4	-10.86	102.06	106.40
36	1	1116	G	C6-C5-N7	-10.86	123.89	130.40
38	4	12	A	N1-C6-N6	10.86	125.11	118.60
36	5	2811	A	N1-C6-N6	-10.86	112.09	118.60
36	1	224	C	C6-N1-C2	-10.85	115.96	120.30
36	1	691	A	C2-N3-C4	-10.85	105.17	110.60
36	5	2847	A	C2-N3-C4	-10.85	105.17	110.60
37	7	116	C	N3-C4-C5	10.85	126.24	121.90
36	1	2898	G	O5'-P-OP2	-10.85	95.94	105.70
36	1	86	G	O5'-P-OP2	-10.85	95.94	105.70
36	5	857	G	C5-C6-N1	-10.84	106.08	111.50
36	5	3065	G	C2-N3-C4	-10.84	106.48	111.90
36	1	962	A	O5'-P-OP1	-10.84	95.94	105.70
36	1	2145	A	C5-C6-N1	10.84	123.12	117.70
36	5	2700	G	N3-C4-C5	-10.84	123.18	128.60
36	5	1374	G	N3-C4-C5	10.83	134.02	128.60
36	5	2397	A	C5-N7-C8	-10.83	98.48	103.90
36	5	969	C	N1-C2-O2	-10.83	112.40	118.90
37	7	92	A	O5'-P-OP1	-10.83	95.95	105.70
36	5	2661	G	N3-C4-N9	10.83	132.50	126.00
36	5	2877	G	N1-C2-N2	-10.83	106.45	116.20
36	5	94	G	N3-C4-N9	-10.82	119.51	126.00
37	3	82	G	N1-C2-N3	10.82	130.39	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	758	U	C5-C4-O4	10.81	132.39	125.90
38	4	26	U	C5-C4-O4	10.81	132.39	125.90
1	6	1025	A	C6-C5-N7	-10.81	124.73	132.30
36	1	2400	G	N1-C6-O6	10.81	126.38	119.90
36	1	2617	U	C5-C6-N1	-10.81	117.30	122.70
36	5	1151	U	N3-C4-O4	10.81	126.97	119.40
36	1	832	G	O5'-P-OP2	-10.80	95.97	105.70
36	1	1414	G	C4-C5-N7	10.80	115.12	110.80
36	1	2385	G	C4-C5-N7	10.80	115.12	110.80
36	5	2386	A	C5-N7-C8	-10.80	98.50	103.90
36	5	3383	G	C4-C5-N7	10.80	115.12	110.80
36	1	939	U	C5-C6-N1	10.80	128.10	122.70
36	1	651	G	N1-C6-O6	10.80	126.38	119.90
36	1	1000	C	N3-C2-O2	10.80	129.46	121.90
36	5	2391	G	N1-C6-O6	-10.80	113.42	119.90
36	5	1665	C	C6-N1-C2	10.79	124.62	120.30
36	5	2278	C	C6-N1-C1'	-10.79	107.85	120.80
36	1	652	G	O5'-P-OP2	-10.78	95.99	105.70
36	5	1196	C	C5-C4-N4	10.78	127.75	120.20
36	5	2354	C	N3-C4-C5	-10.78	117.59	121.90
36	5	2927	C	N1-C2-O2	-10.78	112.43	118.90
36	5	2246	G	C8-N9-C4	-10.78	102.09	106.40
36	1	2869	U	N1-C2-O2	-10.77	115.26	122.80
38	4	32	C	N3-C4-C5	-10.77	117.59	121.90
38	4	12	A	C5-N7-C8	-10.77	98.52	103.90
36	5	2870	C	C6-N1-C2	10.77	124.61	120.30
36	5	2945	G	N7-C8-N9	10.77	118.48	113.10
36	1	979	U	N3-C2-O2	-10.76	114.67	122.20
36	1	1152	G	C2-N3-C4	10.76	117.28	111.90
36	1	2931	C	C6-N1-C2	10.76	124.60	120.30
1	6	1127	G	N1-C6-O6	10.76	126.36	119.90
1	6	1622	G	C5-C6-O6	-10.76	122.14	128.60
36	5	2278	C	O5'-P-OP1	10.76	123.61	110.70
36	1	2280	A	O5'-P-OP1	-10.76	96.02	105.70
36	5	1546	A	N1-C2-N3	10.75	134.68	129.30
36	5	189	G	N1-C6-O6	-10.75	113.45	119.90
36	5	3079	U	C5-C4-O4	10.75	132.35	125.90
38	4	4	C	C2-N3-C4	-10.75	114.53	119.90
36	5	1107	C	C4-C5-C6	10.74	122.77	117.40
36	5	1156	C	O5'-P-OP1	-10.74	96.03	105.70
36	1	1204	A	C2-N3-C4	-10.74	105.23	110.60
36	1	2655	U	C6-N1-C2	-10.74	114.56	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2363	A	N1-C6-N6	-10.74	112.16	118.60
36	5	2644	C	N1-C2-O2	-10.74	112.46	118.90
1	6	1509	C	O5'-P-OP2	-10.74	96.04	105.70
36	5	2403	G	N1-C6-O6	10.74	126.34	119.90
36	5	1373	A	C5-C6-N6	-10.73	115.11	123.70
36	5	2662	G	C8-N9-C1'	-10.73	113.05	127.00
36	1	828	A	C5-N7-C8	-10.73	98.54	103.90
36	5	3188	G	N3-C4-C5	-10.72	123.24	128.60
36	5	3307	A	N1-C6-N6	10.72	125.03	118.60
36	5	640	U	C6-N1-C2	-10.72	114.57	121.00
36	5	2870	C	C5-C6-N1	-10.72	115.64	121.00
1	2	449	C	C6-N1-C2	-10.71	116.01	120.30
36	1	36	C	N1-C2-O2	10.71	125.33	118.90
36	1	1420	C	N1-C2-O2	-10.71	112.47	118.90
36	1	101	G	N9-C4-C5	-10.71	101.11	105.40
36	1	808	A	C6-N1-C2	-10.71	112.18	118.60
1	6	431	C	N3-C4-C5	-10.71	117.62	121.90
36	5	2623	G	C8-N9-C4	10.71	110.68	106.40
36	1	2996	U	C2-N1-C1'	10.70	130.54	117.70
36	1	3217	C	C6-N1-C2	-10.71	116.02	120.30
38	4	12	A	C4-C5-N7	10.70	116.05	110.70
36	5	1321	G	C5-C6-N1	-10.70	106.15	111.50
36	1	1061	A	N7-C8-N9	-10.70	108.45	113.80
36	1	1116	G	N1-C2-N2	-10.70	106.57	116.20
36	1	651	G	C6-C5-N7	-10.70	123.98	130.40
36	1	2985	C	N1-C2-O2	-10.69	112.48	118.90
1	6	1610	G	N3-C4-C5	-10.70	123.25	128.60
36	5	1203	A	N1-C6-N6	10.69	125.02	118.60
36	5	932	U	N3-C4-C5	10.69	121.02	114.60
36	5	1590	G	C8-N9-C4	10.69	110.68	106.40
36	5	2363	A	N9-C4-C5	10.69	110.08	105.80
36	5	3096	C	N3-C4-C5	-10.69	117.62	121.90
1	6	1664	C	N3-C4-C5	-10.69	117.62	121.90
36	1	187	A	N1-C6-N6	-10.68	112.19	118.60
36	1	1151	U	N3-C4-C5	-10.68	108.19	114.60
36	5	567	G	N1-C6-O6	10.68	126.31	119.90
36	5	1310	G	C6-C5-N7	-10.68	124.00	130.40
36	5	2684	C	C6-N1-C2	-10.68	116.03	120.30
1	6	1280	C	N3-C4-C5	-10.67	117.63	121.90
36	5	1377	G	C5-C6-O6	10.67	135.00	128.60
36	5	2698	G	C8-N9-C4	10.67	110.67	106.40
37	7	15	C	C2-N1-C1'	10.67	130.54	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1047	A	O5'-P-OP2	-10.67	96.10	105.70
36	1	645	A	C8-N9-C4	-10.66	101.53	105.80
1	6	144	U	N1-C2-O2	10.66	130.26	122.80
36	5	2393	G	C5-C6-O6	-10.66	122.20	128.60
36	5	2689	A	C6-N1-C2	-10.66	112.20	118.60
36	5	2852	C	C6-N1-C2	10.66	124.57	120.30
36	5	2700	G	N1-C6-O6	-10.66	113.50	119.90
1	6	1278	G	C8-N9-C4	-10.66	102.14	106.40
36	5	3045	G	C8-N9-C4	-10.66	102.14	106.40
1	2	1615	C	N3-C2-O2	-10.66	114.44	121.90
36	5	2395	G	C4-C5-N7	10.66	115.06	110.80
36	5	3137	C	N3-C4-N4	10.66	125.46	118.00
36	1	1438	U	N1-C2-N3	10.65	121.29	114.90
36	5	796	U	N3-C2-O2	-10.65	114.74	122.20
36	5	2634	U	C5-C4-O4	-10.65	119.51	125.90
36	1	1065	A	N1-C2-N3	10.65	134.62	129.30
36	1	3142	A	C5-C6-N6	10.65	132.22	123.70
36	5	960	U	N1-C2-O2	10.65	130.26	122.80
36	5	2921	U	C6-N1-C2	10.65	127.39	121.00
36	5	3124	G	C8-N9-C4	-10.65	102.14	106.40
36	1	609	G	C6-C5-N7	-10.65	124.01	130.40
36	1	1307	G	P-O3'-C3'	10.65	132.48	119.70
36	5	1196	C	C5-C6-N1	-10.65	115.68	121.00
36	5	3078	U	C5-C4-O4	10.64	132.29	125.90
36	1	1414	G	N1-C6-O6	10.64	126.28	119.90
36	5	1050	U	C5-C6-N1	-10.64	117.38	122.70
36	1	2957	G	O5'-P-OP2	-10.63	96.13	105.70
36	5	998	A	N1-C2-N3	10.63	134.62	129.30
36	5	3182	G	C5-C6-O6	10.63	134.98	128.60
36	1	1585	C	C6-N1-C2	10.63	124.55	120.30
36	5	2942	C	N3-C4-N4	-10.62	110.56	118.00
36	1	2644	C	C2-N3-C4	-10.62	114.59	119.90
37	7	84	A	N7-C8-N9	10.62	119.11	113.80
36	1	205	C	C5-C6-N1	-10.62	115.69	121.00
36	1	2414	G	C2-N3-C4	-10.62	106.59	111.90
36	1	2707	C	C6-N1-C2	-10.62	116.05	120.30
36	1	1592	G	N3-C4-C5	-10.62	123.29	128.60
1	6	1644	C	N1-C2-O2	10.62	125.27	118.90
36	5	667	C	N3-C4-N4	-10.62	110.57	118.00
36	5	3245	A	N7-C8-N9	10.62	119.11	113.80
36	5	1176	C	C2-N1-C1'	-10.62	107.12	118.80
1	6	1758	U	O5'-P-OP2	-10.61	96.15	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2378	C	O5'-P-OP1	-10.61	96.15	105.70
36	5	857	G	C8-N9-C4	-10.61	102.16	106.40
36	1	316	U	C6-N1-C2	-10.61	114.64	121.00
36	5	2428	U	C5-C6-N1	-10.61	117.40	122.70
36	1	651	G	C8-N9-C1'	-10.60	113.22	127.00
36	1	1386	A	C5-C6-N6	10.60	132.18	123.70
36	1	1224	C	C6-N1-C2	-10.60	116.06	120.30
1	2	543	C	N1-C2-O2	10.60	125.26	118.90
1	6	142	G	C4-C5-N7	-10.60	106.56	110.80
1	6	474	A	N1-C2-N3	-10.60	124.00	129.30
36	5	2246	G	N7-C8-N9	10.60	118.40	113.10
36	5	1794	G	N3-C4-C5	10.59	133.90	128.60
36	1	890	C	N1-C2-O2	10.59	125.25	118.90
36	1	220	G	N1-C6-O6	10.59	126.25	119.90
36	1	1387	G	N1-C2-N3	10.59	130.25	123.90
1	6	139	C	N3-C2-O2	-10.59	114.49	121.90
36	5	2936	A	N3-C4-C5	-10.59	119.39	126.80
36	5	917	A	O5'-P-OP2	-10.58	96.18	105.70
36	1	1149	G	N1-C6-O6	10.58	126.25	119.90
36	5	637	C	N3-C4-C5	10.58	126.13	121.90
36	1	2811	A	C6-C5-N7	-10.58	124.90	132.30
36	5	595	G	C6-C5-N7	-10.58	124.05	130.40
36	5	1141	C	O5'-P-OP2	-10.58	96.18	105.70
36	1	2390	A	N1-C6-N6	-10.57	112.25	118.60
36	5	648	C	C6-N1-C2	-10.57	116.07	120.30
36	5	2941	A	O5'-P-OP2	-10.57	96.18	105.70
1	6	1005	A	N1-C2-N3	10.57	134.59	129.30
36	1	625	G	O5'-P-OP2	-10.57	96.19	105.70
36	5	1486	G	N3-C4-C5	10.57	133.88	128.60
1	2	377	G	N3-C4-N9	-10.56	119.66	126.00
36	5	512	U	C5-C6-N1	-10.56	117.42	122.70
36	5	1339	C	O5'-P-OP1	-10.56	96.19	105.70
36	5	3140	G	N9-C4-C5	-10.56	101.18	105.40
1	2	1291	G	C8-N9-C4	-10.56	102.18	106.40
36	1	1182	A	N1-C6-N6	10.56	124.93	118.60
36	1	818	C	N3-C4-C5	-10.55	117.68	121.90
36	1	345	G	C4-C5-C6	10.54	125.12	118.80
36	5	1292	C	N1-C2-O2	-10.54	112.58	118.90
36	5	2637	A	N1-C2-N3	10.54	134.57	129.30
36	1	1377	G	N1-C6-O6	10.54	126.22	119.90
36	5	3069	G	C4-C5-N7	10.54	115.02	110.80
38	8	133	G	C8-N9-C4	10.53	110.61	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1340	G	C5-C6-N1	10.53	116.77	111.50
36	1	1141	C	C6-N1-C2	-10.53	116.09	120.30
36	5	521	A	C8-N9-C4	-10.53	101.59	105.80
36	1	1408	G	N1-C6-O6	10.53	126.22	119.90
1	6	421	A	C8-N9-C4	10.53	110.01	105.80
36	1	394	G	N9-C4-C5	10.52	109.61	105.40
36	1	895	A	C8-N9-C4	-10.51	101.59	105.80
1	6	1296	A	O5'-P-OP1	-10.51	96.24	105.70
36	5	3227	A	N1-C6-N6	10.51	124.91	118.60
36	1	938	C	N3-C2-O2	-10.51	114.54	121.90
36	1	335	G	C8-N9-C4	-10.50	102.20	106.40
36	1	656	A	C5-C6-N1	10.50	122.95	117.70
36	1	1398	U	N1-C2-N3	10.50	121.20	114.90
36	5	874	U	N1-C2-N3	10.50	121.20	114.90
36	5	3092	C	C6-N1-C2	10.50	124.50	120.30
1	6	794	U	C2-N1-C1'	10.50	130.29	117.70
36	1	973	A	N1-C6-N6	-10.49	112.30	118.60
36	1	3018	C	C6-N1-C2	10.49	124.50	120.30
1	6	337	G	C5-N7-C8	-10.49	99.05	104.30
36	1	2408	U	C6-N1-C2	-10.49	114.70	121.00
36	1	645	A	C6-N1-C2	-10.49	112.31	118.60
36	1	1500	G	C5-C6-O6	-10.49	122.31	128.60
36	5	2715	A	O5'-P-OP1	-10.49	96.26	105.70
36	5	94	G	N3-C4-C5	10.48	133.84	128.60
36	5	3323	A	C8-N9-C4	-10.48	101.61	105.80
1	6	1426	C	C6-N1-C2	10.48	124.49	120.30
36	5	1129	A	C5-C6-N6	-10.48	115.31	123.70
36	5	3016	A	C2-N3-C4	-10.48	105.36	110.60
36	5	3061	G	N3-C4-C5	10.48	133.84	128.60
37	7	44	C	N3-C4-C5	10.48	126.09	121.90
1	6	163	G	N9-C4-C5	10.48	109.59	105.40
36	5	2934	A	N1-C6-N6	10.48	124.89	118.60
36	5	1900	A	C5-C6-N1	10.47	122.94	117.70
36	5	2762	A	O5'-P-OP1	-10.47	96.27	105.70
38	4	41	A	C6-N1-C2	-10.47	112.32	118.60
36	5	867	G	O5'-P-OP2	10.47	123.27	110.70
36	1	1495	U	N1-C2-O2	-10.47	115.47	122.80
36	1	2810	C	N3-C4-C5	-10.47	117.71	121.90
36	5	227	G	O5'-P-OP2	-10.47	96.28	105.70
36	5	293	C	N3-C4-C5	10.47	126.09	121.90
36	5	2950	G	C5-C6-O6	-10.47	122.32	128.60
36	1	2605	G	N3-C4-C5	10.46	133.83	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	998	A	N1-C6-N6	-10.46	112.32	118.60
1	6	1556	A	N1-C6-N6	10.46	124.88	118.60
36	5	1209	G	N1-C6-O6	10.47	126.18	119.90
36	5	2130	G	N3-C4-C5	10.46	133.83	128.60
1	6	972	G	N1-C6-O6	10.46	126.18	119.90
36	1	424	G	C5-C6-O6	-10.46	122.33	128.60
36	1	35	A	C5-C6-N6	-10.46	115.33	123.70
36	5	994	G	C8-N9-C1'	-10.46	113.41	127.00
36	1	1547	G	N3-C4-N9	10.46	132.27	126.00
36	1	2880	U	C6-N1-C2	-10.46	114.73	121.00
36	5	2906	C	C5-C4-N4	-10.45	112.88	120.20
36	5	283	G	C8-N9-C1'	-10.45	113.41	127.00
36	1	2692	A	C8-N9-C4	-10.45	101.62	105.80
36	1	1178	G	N1-C2-N2	-10.45	106.80	116.20
36	1	272	G	N3-C4-N9	-10.44	119.73	126.00
36	5	27	C	O5'-P-OP1	-10.45	96.30	105.70
36	5	2708	C	N1-C2-O2	-10.45	112.63	118.90
36	1	358	G	C4-C5-N7	10.44	114.98	110.80
36	5	2707	C	C6-N1-C2	10.44	124.48	120.30
36	1	663	C	O5'-P-OP1	10.44	123.23	110.70
36	1	2651	G	N1-C6-O6	10.44	126.16	119.90
36	1	3313	U	O5'-P-OP2	-10.44	96.31	105.70
38	4	20	U	N1-C2-N3	10.44	121.16	114.90
37	7	37	G	N3-C4-N9	10.44	132.26	126.00
36	5	1196	C	N3-C2-O2	-10.44	114.60	121.90
36	1	1134	G	C4-C5-N7	-10.43	106.63	110.80
36	1	1433	A	C5-C6-N1	10.43	122.92	117.70
36	5	502	U	O5'-P-OP2	-10.43	96.31	105.70
36	5	52	A	O5'-P-OP1	-10.43	96.31	105.70
36	5	192	C	C6-N1-C2	-10.43	116.13	120.30
36	5	2234	G	C8-N9-C4	10.43	110.57	106.40
36	5	3362	A	C8-N9-C4	-10.43	101.63	105.80
36	1	1048	A	N1-C6-N6	-10.42	112.35	118.60
36	1	979	U	N1-C2-N3	10.42	121.15	114.90
36	1	937	G	N1-C6-O6	10.42	126.15	119.90
36	1	2281	A	O5'-P-OP2	-10.42	96.33	105.70
36	5	2187	G	N9-C4-C5	10.42	109.57	105.40
36	5	3085	G	N7-C8-N9	-10.42	107.89	113.10
1	6	1536	G	O5'-P-OP1	-10.41	96.33	105.70
36	5	940	G	C6-C5-N7	10.41	136.65	130.40
36	5	2900	A	O5'-P-OP2	-10.41	96.33	105.70
36	1	2753	G	N1-C6-O6	-10.41	113.66	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	4	C	C6-N1-C2	-10.41	116.14	120.30
36	1	2409	G	N3-C4-N9	10.41	132.24	126.00
1	6	359	A	C4-C5-C6	-10.41	111.80	117.00
36	5	2400	G	C4-N9-C1'	-10.41	112.97	126.50
36	5	2976	A	C5-C6-N1	10.40	122.90	117.70
36	1	305	U	C5-C6-N1	-10.40	117.50	122.70
36	1	1887	A	C8-N9-C4	10.40	109.96	105.80
36	5	2353	G	N1-C6-O6	10.40	126.14	119.90
36	1	860	G	N1-C6-O6	10.40	126.14	119.90
36	5	1367	G	C8-N9-C1'	-10.40	113.48	127.00
37	7	109	G	C5-C6-O6	-10.40	122.36	128.60
1	2	1196	A	O5'-P-OP1	-10.39	96.35	105.70
1	6	905	A	N1-C6-N6	-10.39	112.36	118.60
1	6	337	G	N7-C8-N9	10.39	118.30	113.10
36	5	344	A	C8-N9-C4	-10.39	101.64	105.80
36	1	344	A	C5-N7-C8	-10.39	98.70	103.90
36	5	64	G	N1-C6-O6	10.39	126.13	119.90
36	5	2381	G	C4-C5-N7	-10.39	106.64	110.80
36	5	3210	A	N1-C6-N6	-10.39	112.36	118.60
36	1	421	G	C5-C6-N1	10.39	116.69	111.50
36	5	1861	G	O5'-P-OP2	-10.39	96.35	105.70
36	5	2927	C	N3-C2-O2	10.39	129.17	121.90
37	7	84	A	C5-N7-C8	-10.39	98.71	103.90
36	1	2363	A	C8-N9-C4	-10.39	101.65	105.80
1	6	1614	A	C2-N3-C4	-10.38	105.41	110.60
36	5	2116	G	C8-N9-C4	-10.38	102.25	106.40
36	5	2953	U	N3-C2-O2	10.38	129.47	122.20
36	1	2385	G	O5'-P-OP2	-10.38	96.36	105.70
1	6	597	G	C6-C5-N7	-10.38	124.17	130.40
36	5	3219	G	C8-N9-C4	-10.38	102.25	106.40
36	5	2953	U	N3-C4-O4	10.38	126.66	119.40
36	1	206	G	N7-C8-N9	-10.37	107.91	113.10
36	1	630	A	O5'-P-OP2	-10.37	96.36	105.70
36	1	1708	C	C6-N1-C2	10.37	124.45	120.30
36	1	2306	C	C2-N1-C1'	10.37	130.21	118.80
36	5	1931	U	C2-N1-C1'	-10.37	105.25	117.70
36	5	1379	G	N1-C2-N2	-10.37	106.87	116.20
1	2	543	C	C6-N1-C2	-10.37	116.15	120.30
36	1	404	G	C6-C5-N7	-10.37	124.18	130.40
36	5	3085	G	C5-C6-N1	10.36	116.68	111.50
1	2	14	C	C6-N1-C2	-10.36	116.16	120.30
1	2	338	C	N3-C4-C5	-10.36	117.75	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1761	U	N3-C2-O2	-10.36	114.95	122.20
36	1	1448	U	N1-C2-N3	10.36	121.12	114.90
36	5	3180	A	C2-N3-C4	-10.36	105.42	110.60
36	1	1846	C	N3-C2-O2	10.36	129.15	121.90
36	5	86	G	C5-C6-N1	10.36	116.68	111.50
36	1	425	G	N1-C6-O6	-10.35	113.69	119.90
36	1	860	G	C5-C6-O6	-10.35	122.39	128.60
36	5	2247	G	O5'-P-OP1	-10.35	96.38	105.70
36	5	2808	A	O5'-P-OP1	-10.35	96.39	105.70
36	5	2818	U	O5'-P-OP1	-10.35	96.39	105.70
36	1	2827	U	C4-C5-C6	10.35	125.91	119.70
36	5	1497	C	O5'-P-OP1	-10.35	96.39	105.70
36	5	2290	C	C6-N1-C2	10.35	124.44	120.30
36	1	644	G	N1-C6-O6	-10.34	113.69	119.90
1	6	1640	C	C6-N1-C1'	-10.34	108.39	120.80
36	5	927	C	N3-C4-N4	10.34	125.24	118.00
36	5	2305	G	C8-N9-C4	-10.33	102.27	106.40
36	5	2119	A	C6-C5-N7	-10.33	125.07	132.30
36	1	2811	A	N1-C6-N6	10.32	124.80	118.60
36	5	1367	G	C6-C5-N7	-10.32	124.21	130.40
36	5	2996	U	N1-C2-N3	-10.32	108.71	114.90
36	1	994	G	N1-C6-O6	-10.32	113.71	119.90
36	1	3181	C	N3-C4-N4	-10.32	110.78	118.00
36	5	731	U	N3-C2-O2	-10.32	114.98	122.20
36	5	922	U	C2-N1-C1'	-10.32	105.32	117.70
36	5	938	C	C4-C5-C6	-10.32	112.24	117.40
36	5	2673	A	C8-N9-C4	10.31	109.92	105.80
36	1	1195	A	C8-N9-C4	-10.31	101.68	105.80
36	1	2185	G	C6-C5-N7	-10.31	124.22	130.40
36	1	2672	G	N1-C6-O6	-10.31	113.72	119.90
36	5	2689	A	N7-C8-N9	10.31	118.95	113.80
36	5	668	G	N7-C8-N9	-10.31	107.95	113.10
36	1	2409	G	C4-C5-C6	10.30	124.98	118.80
36	1	2628	A	C8-N9-C4	-10.30	101.68	105.80
36	5	858	A	N1-C6-N6	-10.31	112.42	118.60
36	5	1592	G	C4-C5-N7	-10.30	106.68	110.80
36	1	395	A	O5'-P-OP2	-10.30	96.43	105.70
37	7	106	U	C5-C6-N1	-10.30	117.55	122.70
36	1	3273	A	C5-C6-N1	10.30	122.85	117.70
37	3	95	A	C2-N3-C4	-10.30	105.45	110.60
36	1	2831	G	N3-C4-C5	10.29	133.75	128.60
36	1	967	A	N1-C2-N3	10.29	134.45	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2947	G	C5-C6-N1	10.29	116.65	111.50
36	1	1316	C	C4-C5-C6	10.29	122.54	117.40
36	5	1163	A	O5'-P-OP2	-10.29	96.44	105.70
36	1	209	A	C2-N3-C4	-10.29	105.46	110.60
36	1	2811	A	N3-C4-C5	-10.29	119.60	126.80
36	5	1181	U	N1-C2-N3	10.29	121.07	114.90
36	1	2175	U	O5'-P-OP1	-10.28	96.45	105.70
1	6	144	U	C2-N1-C1'	10.28	130.04	117.70
36	5	3041	U	C2-N3-C4	-10.28	120.83	127.00
36	1	908	G	C4-N9-C1'	10.28	139.86	126.50
36	1	942	U	C4-C5-C6	10.28	125.87	119.70
36	1	2352	A	N1-C6-N6	10.28	124.77	118.60
36	5	860	G	C4-C5-N7	10.28	114.91	110.80
36	5	2272	G	O4'-C1'-N9	10.28	116.42	108.20
36	1	923	C	C6-N1-C2	10.27	124.41	120.30
36	5	3385	U	C5-C6-N1	-10.27	117.56	122.70
36	1	1519	G	C4-C5-N7	10.27	114.91	110.80
36	5	2117	A	C2-N3-C4	-10.27	105.47	110.60
37	7	109	G	N1-C6-O6	10.27	126.06	119.90
1	6	1730	A	N9-C4-C5	10.27	109.91	105.80
36	5	526	C	N1-C2-O2	10.27	125.06	118.90
36	5	3122	A	C8-N9-C4	-10.27	101.69	105.80
1	6	554	C	C2-N3-C4	-10.26	114.77	119.90
36	1	674	G	N1-C6-O6	10.26	126.05	119.90
36	5	806	A	C2-N3-C4	-10.26	105.47	110.60
36	5	1196	C	N3-C4-N4	-10.26	110.82	118.00
36	5	2872	A	C4-C5-C6	-10.25	111.87	117.00
36	5	787	G	C2-N3-C4	-10.25	106.78	111.90
1	6	179	A	C8-N9-C4	-10.25	101.70	105.80
36	5	3309	G	N3-C4-N9	10.25	132.15	126.00
36	1	1307	G	N9-C4-C5	10.24	109.50	105.40
38	4	4	C	N1-C2-N3	10.24	126.37	119.20
36	5	2621	G	C5-C6-N1	-10.24	106.38	111.50
36	1	808	A	C5-C6-N1	10.24	122.82	117.70
1	6	554	C	C5-C6-N1	-10.24	115.88	121.00
36	5	1379	G	C2-N3-C4	-10.24	106.78	111.90
36	5	1113	G	C2-N3-C4	-10.24	106.78	111.90
36	5	3086	A	O5'-P-OP1	-10.24	96.48	105.70
36	5	3150	A	N1-C6-N6	10.24	124.74	118.60
36	5	2620	G	N1-C6-O6	-10.24	113.76	119.90
36	1	1139	G	N3-C4-N9	-10.23	119.86	126.00
38	8	1	A	N1-C6-N6	-10.23	112.46	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2927	C	N1-C2-O2	-10.23	112.76	118.90
1	6	1148	C	C6-N1-C2	-10.23	116.21	120.30
36	5	1450	G	N7-C8-N9	10.22	118.21	113.10
36	5	2879	C	N3-C2-O2	10.22	129.06	121.90
36	5	64	G	C4-C5-C6	10.22	124.93	118.80
36	5	2646	C	O5'-P-OP2	-10.22	96.50	105.70
36	1	2379	U	O5'-P-OP1	10.22	122.96	110.70
36	5	1934	G	C8-N9-C4	10.22	110.49	106.40
36	5	2728	G	N3-C4-N9	10.22	132.13	126.00
36	1	907	G	N1-C6-O6	-10.21	113.77	119.90
36	5	1212	A	N7-C8-N9	10.21	118.91	113.80
36	5	1433	A	N1-C6-N6	10.21	124.73	118.60
36	5	1310	G	C6-N1-C2	-10.21	118.97	125.10
38	4	4	C	N3-C2-O2	-10.21	114.75	121.90
36	1	613	G	O5'-P-OP1	-10.20	96.52	105.70
1	6	1773	C	N3-C4-N4	10.20	125.14	118.00
36	5	1060	U	C2-N3-C4	-10.20	120.88	127.00
36	1	1443	G	N1-C6-O6	10.20	126.02	119.90
36	1	290	G	N3-C2-N2	-10.19	112.76	119.90
1	6	1121	C	N3-C2-O2	-10.20	114.76	121.90
36	5	637	C	C5-C4-N4	-10.19	113.06	120.20
36	5	1367	G	C5-C6-N1	-10.20	106.40	111.50
36	5	2244	A	O5'-P-OP1	-10.20	96.52	105.70
37	7	89	G	C6-N1-C2	10.20	131.22	125.10
38	4	32	C	C6-N1-C2	-10.19	116.22	120.30
36	5	1310	G	C5-N7-C8	-10.19	99.20	104.30
1	2	543	C	C2-N1-C1'	10.19	130.01	118.80
36	5	2335	G	C5-N7-C8	10.19	109.39	104.30
36	5	649	A	N1-C6-N6	10.19	124.71	118.60
36	1	635	G	C5-C6-N1	10.18	116.59	111.50
36	5	2920	U	N3-C4-C5	10.18	120.71	114.60
1	6	474	A	C4-C5-C6	-10.18	111.91	117.00
36	1	1917	C	C6-N1-C2	10.18	124.37	120.30
36	5	883	A	C6-N1-C2	-10.17	112.50	118.60
36	5	2694	A	O5'-P-OP1	-10.17	96.55	105.70
36	5	2195	C	N3-C4-N4	-10.17	110.88	118.00
1	6	1753	A	N3-C4-N9	10.17	135.53	127.40
36	1	1341	U	O5'-P-OP2	-10.17	96.55	105.70
36	5	2946	A	C2-N3-C4	-10.16	105.52	110.60
36	1	27	C	C6-N1-C2	-10.16	116.24	120.30
38	4	81	U	N3-C2-O2	-10.16	115.09	122.20
36	5	682	U	C5-C4-O4	10.16	132.00	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2335	G	N7-C8-N9	-10.16	108.02	113.10
36	1	1208	U	C2-N1-C1'	10.16	129.89	117.70
36	1	2617	U	N3-C2-O2	-10.16	115.09	122.20
36	5	940	G	C4-C5-C6	-10.16	112.70	118.80
1	6	1112	G	C5-C6-O6	10.16	134.69	128.60
36	1	1493	G	C5-C6-O6	10.15	134.69	128.60
37	7	26	C	C4-C5-C6	10.15	122.48	117.40
37	7	98	C	O5'-P-OP2	-10.15	96.56	105.70
36	1	632	G	C5-C6-O6	-10.15	122.51	128.60
36	5	1159	A	C2-N3-C4	-10.15	105.53	110.60
36	5	2187	G	C8-N9-C4	-10.15	102.34	106.40
36	5	3227	A	C2-N3-C4	-10.15	105.52	110.60
36	5	3285	C	N1-C2-O2	10.15	124.99	118.90
36	1	2308	C	C5-C6-N1	-10.15	115.93	121.00
36	5	1176	C	C6-N1-C2	10.15	124.36	120.30
36	1	967	A	C2-N3-C4	-10.15	105.53	110.60
36	1	2880	U	N3-C4-O4	-10.15	112.30	119.40
36	1	2168	A	C5-C6-N6	10.14	131.81	123.70
36	5	52	A	N1-C2-N3	10.14	134.37	129.30
36	5	578	A	C8-N9-C4	-10.14	101.74	105.80
38	4	3	A	C2-N3-C4	10.14	115.67	110.60
36	5	1149	G	C4-C5-C6	10.14	124.88	118.80
36	1	2306	C	N3-C2-O2	-10.14	114.81	121.90
38	4	26	U	N3-C2-O2	-10.14	115.11	122.20
36	1	1366	A	N1-C2-N3	10.13	134.37	129.30
36	1	2327	U	O5'-P-OP1	-10.13	96.58	105.70
36	1	2889	C	N3-C4-C5	-10.13	117.85	121.90
36	5	945	C	O5'-P-OP2	-10.13	96.58	105.70
36	5	2428	U	C6-N1-C2	10.13	127.08	121.00
1	6	1615	C	N3-C4-C5	10.13	125.95	121.90
36	1	1419	A	O5'-P-OP1	10.13	122.86	110.70
36	5	1003	A	N1-C6-N6	10.13	124.68	118.60
36	1	1001	G	O5'-P-OP1	-10.13	96.59	105.70
36	1	2946	A	N1-C2-N3	10.13	134.36	129.30
36	5	938	C	C6-N1-C2	10.13	124.35	120.30
36	5	2358	A	C8-N9-C4	10.13	109.85	105.80
1	2	1096	C	N3-C2-O2	-10.12	114.81	121.90
36	1	1192	C	N1-C2-O2	10.12	124.97	118.90
36	5	200	C	N1-C2-O2	10.12	124.97	118.90
36	5	2130	G	N3-C4-N9	-10.12	119.93	126.00
36	1	639	G	N3-C4-C5	10.12	133.66	128.60
36	1	908	G	N3-C4-C5	-10.12	123.54	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2396	G	C5-N7-C8	-10.12	99.24	104.30
1	6	105	A	O5'-P-OP1	-10.12	96.59	105.70
36	1	2942	C	C5-C4-N4	-10.12	113.12	120.20
36	5	347	G	O5'-P-OP2	-10.12	96.59	105.70
36	5	2897	A	C6-N1-C2	-10.12	112.53	118.60
1	6	1108	G	N9-C4-C5	10.11	109.44	105.40
36	1	2963	C	N3-C2-O2	-10.11	114.82	121.90
36	1	3262	U	N3-C2-O2	-10.11	115.12	122.20
36	5	1107	C	N3-C2-O2	-10.11	114.82	121.90
36	5	595	G	C4-N9-C1'	10.11	139.64	126.50
36	1	1419	A	C8-N9-C4	-10.11	101.76	105.80
36	5	2283	G	N1-C6-O6	10.11	125.96	119.90
36	1	939	U	OP1-P-OP2	-10.10	104.44	119.60
36	1	2827	U	N1-C2-N3	10.10	120.96	114.90
36	5	2393	G	N9-C4-C5	-10.10	101.36	105.40
36	5	2662	G	C4-N9-C1'	10.10	139.63	126.50
36	5	2192	C	N3-C4-C5	-10.10	117.86	121.90
36	5	1155	C	N1-C2-O2	-10.10	112.84	118.90
36	5	2168	A	N1-C6-N6	10.10	124.66	118.60
37	7	105	C	N3-C4-C5	-10.10	117.86	121.90
36	1	2726	C	N1-C2-N3	10.10	126.27	119.20
1	6	36	C	C6-N1-C2	10.09	124.34	120.30
36	5	1489	A	C4-C5-C6	10.09	122.05	117.00
1	2	378	A	N1-C6-N6	10.09	124.66	118.60
36	5	1295	G	N9-C4-C5	-10.09	101.36	105.40
36	1	2919	A	C2-N3-C4	-10.09	105.56	110.60
36	1	3094	A	O5'-P-OP1	-10.09	96.62	105.70
36	1	1166	G	N1-C6-O6	10.08	125.95	119.90
1	2	1737	G	N1-C6-O6	10.08	125.95	119.90
36	1	147	U	N3-C2-O2	-10.08	115.14	122.20
36	1	693	A	N1-C2-N3	10.08	134.34	129.30
36	1	1108	U	O5'-P-OP1	-10.08	96.63	105.70
36	5	2816	G	N1-C6-O6	10.08	125.95	119.90
36	1	897	U	N1-C2-O2	10.07	129.85	122.80
36	5	2887	A	N1-C6-N6	-10.07	112.56	118.60
1	6	1774	G	C8-N9-C4	-10.07	102.37	106.40
36	5	2189	U	O5'-P-OP1	-10.07	96.64	105.70
36	5	2897	A	C5-C6-N6	-10.07	115.64	123.70
36	1	3172	A	C6-N1-C2	-10.07	112.56	118.60
37	3	30	G	N3-C4-C5	-10.07	123.57	128.60
36	1	413	U	C5-C6-N1	-10.06	117.67	122.70
36	1	575	G	O5'-P-OP1	-10.06	96.64	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3261	C	N3-C4-C5	-10.06	117.88	121.90
36	1	606	C	N1-C2-O2	-10.06	112.86	118.90
36	1	2378	C	C6-N1-C2	10.06	124.32	120.30
36	5	2959	C	C6-N1-C2	-10.06	116.28	120.30
36	1	1443	G	C4-C5-N7	10.06	114.82	110.80
36	5	1148	G	C6-C5-N7	-10.06	124.37	130.40
1	2	75	U	N1-C2-O2	10.05	129.84	122.80
36	1	718	G	C5-N7-C8	-10.05	99.27	104.30
36	5	3333	G	O5'-P-OP2	-10.05	96.65	105.70
36	1	2637	A	N1-C6-N6	-10.05	112.57	118.60
36	5	567	G	C4-C5-N7	10.04	114.82	110.80
36	1	608	A	C6-C5-N7	-10.04	125.27	132.30
1	6	1498	G	N1-C6-O6	10.04	125.92	119.90
37	7	97	A	C6-N1-C2	-10.04	112.58	118.60
36	1	1182	A	C5-C6-N6	-10.04	115.67	123.70
38	4	18	U	C2-N1-C1'	10.04	129.75	117.70
36	5	1485	G	N1-C6-O6	-10.04	113.88	119.90
36	5	2620	G	N1-C2-N3	10.04	129.92	123.90
36	5	609	G	O5'-P-OP2	-10.03	96.67	105.70
36	1	707	U	C5-C4-O4	10.03	131.92	125.90
36	1	2824	G	C6-C5-N7	-10.03	124.38	130.40
36	5	2584	G	C8-N9-C4	-10.03	102.39	106.40
36	5	2661	G	C4-N9-C1'	10.03	139.53	126.50
36	5	3043	C	C6-N1-C2	10.03	124.31	120.30
38	8	53	A	C6-N1-C2	-10.03	112.58	118.60
36	5	1129	A	N9-C4-C5	-10.02	101.79	105.80
36	1	3100	U	C6-N1-C2	10.02	127.01	121.00
36	1	394	G	C8-N9-C4	-10.02	102.39	106.40
36	1	3092	C	C5-C6-N1	-10.02	115.99	121.00
36	1	2764	C	N3-C4-C5	-10.01	117.89	121.90
36	1	3054	U	N3-C4-C5	-10.01	108.59	114.60
36	5	1897	G	C5-N7-C8	-10.01	99.30	104.30
36	1	102	C	N1-C2-O2	10.01	124.90	118.90
36	5	2426	U	N3-C4-C5	-10.01	108.60	114.60
1	2	377	G	N3-C4-C5	10.00	133.60	128.60
36	5	345	G	C8-N9-C1'	-10.00	114.00	127.00
36	5	3144	G	N3-C4-C5	-10.00	123.60	128.60
36	5	856	G	O5'-P-OP1	-10.00	96.70	105.70
36	5	1592	G	C5-C6-N1	-10.00	106.50	111.50
36	1	641	C	C2-N3-C4	10.00	124.90	119.90
1	2	1291	G	C6-C5-N7	-9.99	124.40	130.40
36	5	345	G	N1-C6-O6	9.99	125.90	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	885	U	C5-C6-N1	-9.99	117.70	122.70
1	6	388	G	C5-C6-N1	-9.99	106.50	111.50
36	5	1429	G	C6-N1-C2	-9.99	119.10	125.10
36	5	2811	A	N1-C2-N3	9.99	134.30	129.30
36	1	1405	U	N3-C4-O4	-9.99	112.41	119.40
37	7	69	C	C6-N1-C2	9.99	124.30	120.30
36	1	2703	A	C4-C5-C6	9.99	121.99	117.00
1	6	597	G	C4-C5-N7	9.99	114.79	110.80
36	5	1336	U	N3-C4-O4	9.99	126.39	119.40
38	8	42	G	O5'-P-OP2	-9.98	96.72	105.70
36	1	2874	G	C4-N9-C1'	9.98	139.48	126.50
36	5	1128	U	N1-C2-N3	9.98	120.89	114.90
36	5	2934	A	C5-C6-N1	-9.98	112.71	117.70
36	1	211	A	N1-C6-N6	-9.97	112.62	118.60
36	1	3041	U	O5'-P-OP2	-9.97	96.72	105.70
37	3	98	C	C4-C5-C6	9.97	122.39	117.40
38	4	28	C	N3-C4-N4	9.97	124.98	118.00
36	5	1872	C	C6-N1-C2	-9.97	116.31	120.30
36	1	1178	G	C4-N9-C1'	9.97	139.46	126.50
1	6	967	A	C5-C6-N6	-9.97	115.73	123.70
36	5	1115	G	C8-N9-C1'	-9.97	114.04	127.00
36	5	1669	C	N3-C4-C5	-9.97	117.91	121.90
36	5	2610	G	N1-C2-N2	9.97	125.17	116.20
36	5	2916	U	N1-C2-O2	9.97	129.78	122.80
36	5	1152	G	C5-N7-C8	-9.97	99.32	104.30
36	1	1049	C	O5'-P-OP1	-9.96	96.73	105.70
36	5	1129	A	C4-C5-N7	9.96	115.68	110.70
36	5	2950	G	C5-N7-C8	-9.96	99.32	104.30
36	1	3344	A	C5-N7-C8	-9.96	98.92	103.90
1	6	1765	A	O5'-P-OP1	-9.96	96.73	105.70
36	5	2833	A	C6-N1-C2	-9.96	112.62	118.60
36	5	2879	C	N3-C4-N4	9.96	124.97	118.00
36	1	2241	U	C6-N1-C1'	9.96	135.14	121.20
36	1	1554	U	C5-C6-N1	9.96	127.68	122.70
1	2	1272	U	C6-N1-C2	-9.95	115.03	121.00
36	1	3142	A	N3-C4-N9	-9.96	119.44	127.40
36	5	3215	A	C8-N9-C4	9.95	109.78	105.80
36	1	345	G	C8-N9-C4	-9.95	102.42	106.40
36	1	2930	A	N9-C4-C5	-9.95	101.82	105.80
36	1	1149	G	O5'-P-OP2	-9.95	96.74	105.70
36	1	2417	U	N1-C2-N3	9.95	120.87	114.90
36	5	428	A	N1-C6-N6	9.95	124.57	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2804	A	N1-C6-N6	-9.95	112.63	118.60
36	5	3362	A	N7-C8-N9	9.95	118.78	113.80
36	5	289	A	N1-C6-N6	9.95	124.57	118.60
36	1	943	U	N1-C2-N3	9.94	120.87	114.90
36	1	1117	G	O5'-P-OP1	-9.95	96.75	105.70
36	1	3140	G	C4-C5-N7	9.94	114.78	110.80
36	5	2720	G	OP1-P-O3'	-9.94	83.32	105.20
36	5	1164	G	C5-C6-N1	9.94	116.47	111.50
36	5	2679	A	C8-N9-C4	9.94	109.78	105.80
36	5	2767	U	O5'-P-OP2	-9.94	96.75	105.70
36	5	3006	A	N1-C2-N3	9.94	134.27	129.30
36	1	220	G	C2-N3-C4	-9.94	106.93	111.90
1	6	427	C	C5-C6-N1	-9.94	116.03	121.00
36	1	2617	U	C5-C4-O4	9.94	131.86	125.90
36	1	2821	C	N3-C4-C5	-9.94	117.93	121.90
36	1	1429	G	C8-N9-C1'	-9.93	114.09	127.00
36	1	1192	C	O5'-P-OP2	-9.93	96.76	105.70
36	1	2996	U	N1-C2-O2	9.93	129.75	122.80
36	5	1149	G	C5-N7-C8	-9.93	99.33	104.30
36	5	2119	A	C4-C5-C6	9.93	121.97	117.00
1	2	1631	A	O5'-P-OP2	-9.93	96.77	105.70
36	5	286	U	C5-C6-N1	9.93	127.66	122.70
36	1	2400	G	O5'-P-OP1	-9.93	96.77	105.70
36	1	2953	U	C2-N3-C4	9.93	132.96	127.00
36	1	2997	G	C4-C5-N7	9.93	114.77	110.80
1	6	151	G	N3-C4-N9	-9.92	120.05	126.00
1	6	1535	U	N1-C2-N3	9.92	120.85	114.90
36	5	842	G	O5'-P-OP1	-9.92	96.77	105.70
36	1	2347	U	C5-C6-N1	9.92	127.66	122.70
1	6	444	C	C6-N1-C2	9.91	124.27	120.30
1	2	25	C	N1-C2-O2	-9.91	112.95	118.90
1	6	1542	G	O5'-P-OP1	-9.91	96.78	105.70
36	5	339	C	N3-C2-O2	9.91	128.84	121.90
36	5	2875	U	C5-C4-O4	9.91	131.85	125.90
36	1	1392	G	N9-C4-C5	9.91	109.36	105.40
36	5	813	G	O5'-P-OP2	-9.91	96.78	105.70
36	5	3010	U	N3-C2-O2	-9.91	115.26	122.20
38	8	107	G	C6-C5-N7	-9.91	124.45	130.40
36	1	2191	U	N3-C2-O2	-9.91	115.27	122.20
1	6	634	G	C8-N9-C4	-9.90	102.44	106.40
36	5	398	A	O5'-P-OP2	-9.90	96.79	105.70
36	1	1901	A	N1-C6-N6	-9.90	112.66	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2831	G	C2-N3-C4	-9.90	106.95	111.90
36	5	1481	A	N7-C8-N9	9.90	118.75	113.80
36	1	639	G	C5-C6-N1	-9.89	106.55	111.50
36	1	2639	G	N3-C4-C5	9.89	133.55	128.60
1	6	1787	C	C6-N1-C2	-9.89	116.34	120.30
36	5	2889	C	N1-C2-O2	9.89	124.83	118.90
36	1	334	A	C5-C6-N1	9.89	122.64	117.70
1	6	609	U	O4'-C1'-N1	-9.89	100.29	108.20
38	4	62	C	C6-N1-C2	9.88	124.25	120.30
1	6	1131	A	C5-N7-C8	-9.88	98.96	103.90
36	5	668	G	C8-N9-C4	9.89	110.36	106.40
36	5	796	U	N1-C2-O2	9.88	129.72	122.80
36	5	1793	C	C5-C4-N4	-9.88	113.28	120.20
37	3	115	G	C5-C6-O6	-9.88	122.67	128.60
38	4	38	U	C6-N1-C2	-9.88	115.07	121.00
36	5	1113	G	N3-C2-N2	-9.88	112.98	119.90
36	5	2874	G	C5-C6-N1	-9.88	106.56	111.50
1	6	1114	G	N1-C6-O6	-9.88	113.97	119.90
36	5	669	U	C2-N1-C1'	9.88	129.55	117.70
36	5	944	C	N3-C2-O2	-9.88	114.99	121.90
36	5	2155	G	C2-N3-C4	-9.88	106.96	111.90
36	1	928	C	C6-N1-C2	9.87	124.25	120.30
36	1	929	A	C5-C6-N6	-9.87	115.80	123.70
36	5	2199	G	C4-N9-C1'	9.87	139.34	126.50
36	1	2156	C	C6-N1-C2	9.87	124.25	120.30
36	5	1303	A	C8-N9-C4	9.87	109.75	105.80
36	5	1845	G	N3-C4-C5	-9.87	123.67	128.60
36	5	2940	A	C6-C5-N7	-9.87	125.39	132.30
37	3	97	A	N7-C8-N9	-9.86	108.87	113.80
36	5	1008	U	C6-N1-C2	9.86	126.92	121.00
1	6	337	G	C4-C5-N7	9.86	114.74	110.80
36	5	1399	A	N1-C6-N6	9.86	124.52	118.60
36	5	3091	A	N1-C6-N6	9.86	124.52	118.60
36	1	833	G	N1-C6-O6	-9.86	113.99	119.90
36	1	2347	U	C6-N1-C2	-9.86	115.09	121.00
36	5	2993	G	C8-N9-C4	-9.86	102.46	106.40
36	1	2960	C	C5-C6-N1	-9.85	116.07	121.00
36	1	3197	G	N3-C4-C5	9.85	133.53	128.60
36	5	521	A	C5-C6-N1	-9.85	112.77	117.70
36	5	2205	U	O4'-C1'-N1	9.85	116.08	108.20
36	1	2613	U	C4-C5-C6	9.85	125.61	119.70
1	6	1645	G	C5-C6-O6	-9.85	122.69	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	21	G	C8-N9-C4	-9.84	102.46	106.40
36	5	426	G	N7-C8-N9	-9.84	108.18	113.10
36	1	1552	G	N1-C6-O6	9.84	125.80	119.90
1	2	543	C	N3-C2-O2	-9.84	115.01	121.90
36	5	422	A	N1-C6-N6	-9.84	112.70	118.60
36	5	2994	A	C6-N1-C2	-9.84	112.70	118.60
36	1	397	A	C6-N1-C2	-9.84	112.70	118.60
36	1	798	G	C4-C5-N7	9.84	114.73	110.80
36	1	3277	U	N1-C2-N3	9.84	120.80	114.90
36	5	881	C	N1-C2-O2	9.84	124.80	118.90
36	5	2377	G	N1-C6-O6	-9.84	114.00	119.90
36	5	356	C	C2-N3-C4	-9.83	114.98	119.90
36	1	1170	A	N1-C6-N6	9.83	124.50	118.60
36	5	426	G	C8-N9-C4	9.83	110.33	106.40
36	5	576	C	C6-N1-C2	-9.83	116.37	120.30
1	6	797	G	N1-C6-O6	-9.83	114.00	119.90
36	5	363	G	O5'-P-OP2	9.83	122.49	110.70
36	5	644	G	C4-C5-N7	-9.83	106.87	110.80
36	5	2971	A	C2-N3-C4	9.83	115.51	110.60
36	1	609	G	N9-C4-C5	-9.82	101.47	105.40
1	6	448	C	C6-N1-C2	-9.82	116.37	120.30
1	6	1671	A	O5'-P-OP1	-9.82	96.86	105.70
38	8	38	U	C5-C4-O4	9.82	131.79	125.90
1	6	1456	C	C4-C5-C6	9.82	122.31	117.40
36	5	51	A	N1-C6-N6	9.82	124.49	118.60
36	1	41	G	N1-C6-O6	-9.82	114.01	119.90
36	5	2953	U	C2-N3-C4	9.82	132.89	127.00
36	5	216	G	N1-C6-O6	9.82	125.79	119.90
36	5	3015	G	N3-C2-N2	-9.82	113.03	119.90
36	1	609	G	N3-C4-N9	9.81	131.89	126.00
36	1	2278	C	N1-C2-O2	9.81	124.79	118.90
36	1	2697	A	C6-N1-C2	-9.81	112.71	118.60
36	1	3143	C	N1-C2-O2	9.81	124.78	118.90
36	1	3260	G	C2-N3-C4	-9.81	107.00	111.90
36	5	1429	G	N1-C2-N2	-9.81	107.37	116.20
36	5	2662	G	N3-C4-C5	-9.81	123.70	128.60
36	1	803	C	N3-C4-C5	9.81	125.82	121.90
36	1	1458	U	C6-N1-C2	9.81	126.88	121.00
36	1	1454	A	C2-N3-C4	-9.80	105.70	110.60
36	5	1487	G	C6-C5-N7	-9.80	124.52	130.40
1	6	554	C	C6-N1-C2	9.80	124.22	120.30
1	6	1201	G	N3-C4-C5	9.80	133.50	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	567	G	C6-C5-N7	-9.80	124.52	130.40
36	5	1076	C	C5-C6-N1	-9.80	116.10	121.00
1	2	334	G	C6-C5-N7	9.80	136.28	130.40
36	1	917	A	C4-C5-N7	-9.80	105.80	110.70
36	5	3043	C	C5-C6-N1	-9.80	116.10	121.00
1	6	99	C	C6-N1-C2	9.80	124.22	120.30
36	5	2652	U	O5'-P-OP2	-9.80	96.88	105.70
1	2	144	U	O4'-C1'-N1	9.79	116.04	108.20
36	1	1377	G	C5-C6-O6	-9.80	122.72	128.60
36	1	2608	G	N1-C6-O6	9.79	125.78	119.90
36	1	2934	A	C5-C6-N1	-9.80	112.80	117.70
36	5	2279	A	C4-C5-N7	9.80	115.60	110.70
36	5	803	C	C5-C4-N4	-9.79	113.34	120.20
36	1	1895	A	O5'-P-OP2	-9.79	96.89	105.70
36	5	2368	A	C4-C5-C6	9.79	121.90	117.00
36	1	67	A	C5-C6-N1	9.79	122.59	117.70
36	1	3261	C	C6-N1-C2	-9.79	116.38	120.30
1	6	960	U	N3-C2-O2	-9.79	115.35	122.20
36	5	579	G	O5'-P-OP2	-9.79	96.89	105.70
36	1	1323	G	C6-C5-N7	-9.79	124.53	130.40
38	4	3	A	C5-C6-N6	-9.79	115.87	123.70
36	5	3144	G	N3-C4-N9	9.79	131.87	126.00
36	1	311	C	N3-C4-N4	9.78	124.85	118.00
36	1	3325	G	N7-C8-N9	-9.78	108.21	113.10
36	1	2884	C	N3-C4-N4	-9.78	111.16	118.00
36	1	695	C	N3-C4-C5	9.78	125.81	121.90
36	5	1041	U	O5'-P-OP2	-9.78	96.90	105.70
36	5	2275	A	N7-C8-N9	9.78	118.69	113.80
36	5	35	A	N1-C6-N6	-9.77	112.74	118.60
36	5	805	G	C2-N3-C4	9.77	116.79	111.90
36	5	1187	C	N3-C4-C5	9.77	125.81	121.90
1	2	353	A	N1-C6-N6	9.77	124.46	118.60
36	5	3207	U	C5-C4-O4	9.77	131.76	125.90
36	1	609	G	N1-C6-O6	9.77	125.76	119.90
1	6	1480	G	C5-C6-O6	-9.77	122.74	128.60
36	5	1484	U	C2-N1-C1'	-9.77	105.98	117.70
36	5	1556	C	C2-N1-C1'	9.77	129.54	118.80
36	5	2125	A	C2-N3-C4	-9.77	105.72	110.60
36	5	3154	C	N1-C2-O2	9.77	124.76	118.90
36	1	2704	A	N1-C6-N6	-9.76	112.74	118.60
36	5	1665	C	N3-C4-C5	9.76	125.81	121.90
36	5	2943	G	C2-N3-C4	-9.76	107.02	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	624	G	O5'-P-OP2	-9.76	96.92	105.70
36	1	92	G	C6-C5-N7	-9.76	124.54	130.40
1	6	1483	A	C8-N9-C4	-9.76	101.90	105.80
36	5	1003	A	C5-C6-N6	-9.76	115.89	123.70
37	7	106	U	C6-N1-C2	9.76	126.86	121.00
36	1	2353	G	C5-C6-N1	-9.76	106.62	111.50
36	5	918	C	C4-C5-C6	9.75	122.28	117.40
36	1	427	C	N3-C4-C5	-9.75	118.00	121.90
36	1	2899	C	N1-C2-N3	9.75	126.03	119.20
1	6	407	A	N1-C6-N6	9.75	124.45	118.60
36	5	832	G	N3-C4-C5	-9.75	123.73	128.60
37	3	116	C	C6-N1-C2	-9.75	116.40	120.30
1	6	1541	G	O5'-P-OP1	-9.75	96.93	105.70
36	5	1117	G	O5'-P-OP1	-9.75	96.93	105.70
36	5	3220	G	N1-C6-O6	-9.75	114.05	119.90
36	5	3374	U	C6-N1-C2	9.75	126.85	121.00
36	1	939	U	C5-C4-O4	-9.74	120.05	125.90
36	1	2872	A	C5-C6-N6	-9.74	115.91	123.70
1	6	697	C	C5-C6-N1	9.74	125.87	121.00
36	5	2816	G	C2-N3-C4	-9.74	107.03	111.90
1	6	565	C	C2-N3-C4	-9.74	115.03	119.90
36	5	2278	C	C6-N1-C2	9.74	124.20	120.30
36	5	2796	G	O5'-P-OP1	-9.74	96.93	105.70
36	5	1841	A	O5'-P-OP1	-9.74	96.94	105.70
36	1	1887	A	C2-N3-C4	-9.74	105.73	110.60
36	1	2895	G	N3-C4-C5	-9.74	123.73	128.60
36	5	188	U	C6-N1-C2	-9.73	115.16	121.00
36	5	806	A	N3-C4-N9	-9.73	119.61	127.40
36	1	400	G	C8-N9-C4	-9.73	102.51	106.40
36	5	1085	A	O5'-P-OP1	-9.73	96.94	105.70
36	1	622	A	N1-C6-N6	9.73	124.44	118.60
36	1	1458	U	C5-C6-N1	-9.73	117.84	122.70
36	1	652	G	N3-C4-N9	9.72	131.83	126.00
1	6	927	C	N3-C2-O2	-9.72	115.09	121.90
36	5	213	A	C5-C6-N1	9.72	122.56	117.70
36	5	2827	U	O5'-P-OP2	-9.72	96.95	105.70
1	2	399	A	N1-C6-N6	-9.72	112.77	118.60
36	1	349	A	N1-C6-N6	-9.72	112.77	118.60
36	5	998	A	N1-C6-N6	-9.72	112.77	118.60
36	5	2305	G	N1-C6-O6	-9.72	114.07	119.90
36	1	218	G	N3-C4-N9	-9.72	120.17	126.00
1	6	163	G	C5-C6-N1	-9.71	106.64	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	93	C	C5-C4-N4	-9.71	113.40	120.20
36	1	342	A	C8-N9-C4	9.71	109.69	105.80
36	1	2278	C	N3-C4-C5	9.71	125.78	121.90
36	5	2632	G	C8-N9-C4	9.71	110.28	106.40
36	1	404	G	N1-C6-O6	9.71	125.73	119.90
36	1	676	G	N3-C4-C5	-9.71	123.75	128.60
36	5	1148	G	C2-N3-C4	-9.71	107.05	111.90
36	5	1290	A	C2-N3-C4	-9.71	105.75	110.60
36	5	2856	G	C5-C6-N1	-9.71	106.65	111.50
1	6	40	A	C2-N3-C4	-9.70	105.75	110.60
1	2	1199	G	O5'-P-OP1	-9.70	96.97	105.70
36	5	1303	A	C5-C6-N1	9.70	122.55	117.70
38	4	75	G	O5'-P-OP1	-9.70	96.97	105.70
36	1	2908	G	C8-N9-C4	-9.69	102.52	106.40
36	5	50	U	C2-N1-C1'	9.69	129.33	117.70
1	2	1655	A	C8-N9-C4	9.69	109.68	105.80
36	1	1367	G	N1-C6-O6	9.69	125.71	119.90
36	5	1376	C	O5'-P-OP1	-9.69	96.98	105.70
36	5	2897	A	N1-C2-N3	9.69	134.14	129.30
38	8	17	A	C8-N9-C4	9.69	109.68	105.80
36	1	2623	G	C6-C5-N7	-9.69	124.59	130.40
36	5	3122	A	N7-C8-N9	9.69	118.64	113.80
36	1	1432	C	O5'-P-OP1	-9.68	96.99	105.70
36	1	1524	A	N1-C6-N6	-9.68	112.79	118.60
36	1	1542	G	C2-N3-C4	-9.68	107.06	111.90
36	5	648	C	C4-C5-C6	9.68	122.24	117.40
36	5	3127	A	C2-N3-C4	-9.68	105.76	110.60
36	1	2874	G	C4-C5-C6	9.68	124.61	118.80
36	5	3091	A	N1-C2-N3	9.68	134.14	129.30
36	5	3179	U	C4-C5-C6	9.68	125.51	119.70
36	1	1301	A	N1-C6-N6	9.68	124.41	118.60
36	5	2624	G	C4-C5-N7	9.68	114.67	110.80
36	5	2914	G	N7-C8-N9	9.67	117.94	113.10
36	1	2325	G	N1-C6-O6	9.67	125.70	119.90
36	1	2814	G	C4-C5-N7	-9.67	106.93	110.80
36	5	1212	A	C5-C6-N1	9.67	122.53	117.70
37	7	88	G	C5-C6-N1	9.67	116.33	111.50
36	5	1603	A	C4-C5-C6	9.67	121.83	117.00
36	1	189	G	N1-C6-O6	-9.66	114.10	119.90
36	5	213	A	O5'-P-OP1	-9.66	97.00	105.70
36	1	2803	A	N1-C6-N6	-9.66	112.80	118.60
36	5	2395	G	C6-C5-N7	-9.66	124.60	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1278	G	N3-C4-C5	-9.66	123.77	128.60
36	5	2583	C	C6-N1-C2	-9.66	116.44	120.30
36	5	3063	C	C6-N1-C2	9.66	124.16	120.30
36	5	3200	G	C6-C5-N7	-9.66	124.60	130.40
36	5	1370	G	N1-C6-O6	-9.66	114.11	119.90
36	1	1364	C	N3-C4-C5	9.66	125.76	121.90
36	1	2186	U	O5'-P-OP2	-9.66	97.01	105.70
36	5	816	A	N1-C6-N6	-9.66	112.81	118.60
36	1	883	A	N1-C6-N6	-9.65	112.81	118.60
38	4	54	A	C8-N9-C4	-9.65	101.94	105.80
36	5	2871	G	O5'-P-OP2	-9.65	97.01	105.70
1	6	1792	G	N1-C6-O6	-9.65	114.11	119.90
36	1	2402	A	C5-C6-N1	9.65	122.53	117.70
1	6	1457	C	C2-N1-C1'	9.65	129.41	118.80
36	5	645	A	C8-N9-C4	-9.65	101.94	105.80
36	5	2400	G	N1-C2-N3	-9.65	118.11	123.90
36	1	2377	G	N9-C4-C5	9.65	109.26	105.40
36	1	2899	C	C6-N1-C2	-9.65	116.44	120.30
1	2	1146	G	N3-C4-C5	-9.64	123.78	128.60
36	5	1350	A	C8-N9-C4	-9.64	101.94	105.80
36	5	1372	C	C5-C6-N1	-9.64	116.18	121.00
36	1	2184	U	C5-C6-N1	9.64	127.52	122.70
36	1	2627	C	C5-C6-N1	-9.64	116.18	121.00
36	1	2831	G	C5-N7-C8	-9.64	99.48	104.30
36	5	1637	A	N1-C6-N6	-9.64	112.82	118.60
36	5	2945	G	C5-C6-O6	9.64	134.38	128.60
1	6	991	G	N3-C2-N2	-9.64	113.15	119.90
36	5	2288	G	C5-C6-O6	-9.64	122.82	128.60
36	5	2950	G	C6-C5-N7	-9.64	124.62	130.40
1	6	1583	A	N1-C6-N6	-9.64	112.82	118.60
36	5	1548	C	N1-C2-O2	-9.63	113.12	118.90
36	5	2700	G	C2-N3-C4	9.64	116.72	111.90
38	8	52	A	N1-C2-N3	9.63	134.12	129.30
36	1	636	C	N3-C4-N4	9.63	124.74	118.00
36	5	2679	A	N7-C8-N9	-9.63	108.98	113.80
36	1	793	C	N1-C2-O2	-9.63	113.12	118.90
36	1	1151	U	C5-C6-N1	9.63	127.52	122.70
36	5	2147	A	O5'-P-OP1	-9.63	97.03	105.70
36	1	826	G	C5-C6-O6	-9.62	122.83	128.60
38	4	53	A	C6-N1-C2	-9.62	112.83	118.60
36	5	650	C	C2-N3-C4	-9.62	115.09	119.90
36	1	961	C	N1-C2-O2	9.62	124.67	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	39	A	C5-C6-N1	9.62	122.51	117.70
36	1	61	A	C8-N9-C4	-9.62	101.95	105.80
36	5	1151	U	C2-N3-C4	9.62	132.77	127.00
36	5	1907	C	N1-C2-O2	-9.62	113.13	118.90
36	1	1442	U	O5'-P-OP2	9.62	122.24	110.70
1	6	1537	C	C6-N1-C2	-9.62	116.45	120.30
36	5	2971	A	C8-N9-C4	-9.62	101.95	105.80
57	n1	17	ARG	NE-CZ-NH1	9.62	125.11	120.30
36	5	3213	A	C8-N9-C4	9.62	109.65	105.80
36	1	2661	G	C4-C5-N7	9.61	114.65	110.80
36	5	345	G	C6-C5-N7	-9.62	124.63	130.40
36	1	1432	C	N1-C2-N3	9.61	125.93	119.20
36	1	2315	G	C4-C5-N7	-9.61	106.95	110.80
36	5	2111	G	N3-C4-C5	9.61	133.41	128.60
36	5	2906	C	N1-C2-O2	-9.61	113.13	118.90
36	5	3044	G	C6-C5-N7	-9.61	124.63	130.40
1	2	554	C	N1-C2-O2	9.61	124.67	118.90
36	1	1514	G	C4-N9-C1'	9.61	138.99	126.50
38	4	94	C	C5-C6-N1	-9.61	116.19	121.00
36	5	293	C	C6-N1-C2	9.61	124.14	120.30
36	1	3344	A	N7-C8-N9	9.61	118.60	113.80
36	1	1453	A	C6-N1-C2	-9.61	112.84	118.60
36	1	3273	A	N1-C6-N6	-9.61	112.84	118.60
38	4	16	G	N1-C6-O6	9.61	125.66	119.90
36	5	276	U	O5'-P-OP1	-9.61	97.06	105.70
36	5	3061	G	C8-N9-C4	9.61	110.24	106.40
1	2	1486	G	C8-N9-C1'	-9.60	114.52	127.00
36	5	2917	G	N3-C2-N2	-9.60	113.18	119.90
36	1	612	U	N1-C2-N3	9.60	120.66	114.90
36	5	1592	G	N3-C4-C5	-9.60	123.80	128.60
36	5	2719	U	N3-C2-O2	9.60	128.92	122.20
1	2	1751	C	N3-C4-C5	9.59	125.74	121.90
36	1	92	G	C4-C5-N7	9.59	114.64	110.80
36	1	793	C	C6-N1-C2	-9.59	116.46	120.30
36	1	1446	A	C8-N9-C4	-9.59	101.96	105.80
38	4	62	C	C5-C6-N1	-9.59	116.20	121.00
1	6	1602	C	C6-N1-C2	-9.59	116.46	120.30
36	5	2945	G	N9-C4-C5	9.59	109.24	105.40
36	1	952	A	C8-N9-C4	-9.59	101.96	105.80
36	1	2696	A	N1-C2-N3	-9.59	124.50	129.30
36	1	2998	U	N3-C2-O2	9.59	128.91	122.20
36	5	1289	G	N1-C6-O6	-9.59	114.15	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1778	G	C5-C6-N1	9.59	116.30	111.50
36	5	2339	C	N1-C2-O2	-9.59	113.15	118.90
36	1	812	G	N1-C2-N3	9.59	129.65	123.90
1	2	1587	A	C8-N9-C4	-9.59	101.97	105.80
36	1	96	G	C8-N9-C4	9.59	110.23	106.40
36	1	1050	U	C2-N3-C4	-9.59	121.25	127.00
1	6	1013	A	N1-C6-N6	-9.59	112.85	118.60
36	5	732	C	C6-N1-C2	-9.59	116.47	120.30
36	5	995	U	C5-C6-N1	-9.59	117.91	122.70
1	6	1457	C	C6-N1-C2	-9.58	116.47	120.30
36	1	693	A	C5-N7-C8	-9.58	99.11	103.90
36	5	878	G	N3-C4-C5	-9.58	123.81	128.60
36	5	1374	G	C4-C5-N7	9.58	114.63	110.80
36	1	1519	G	C5-N7-C8	-9.58	99.51	104.30
36	5	281	G	N1-C6-O6	-9.58	114.15	119.90
36	5	2653	C	N3-C2-O2	9.58	128.61	121.90
36	1	1196	C	C6-N1-C2	9.58	124.13	120.30
1	6	119	A	C2-N3-C4	-9.58	105.81	110.60
36	5	1872	C	N3-C2-O2	-9.58	115.19	121.90
36	5	1885	U	C6-N1-C2	-9.58	115.25	121.00
37	3	3	U	O5'-P-OP2	-9.57	97.08	105.70
36	5	2887	A	N9-C4-C5	9.57	109.63	105.80
36	5	2381	G	C5-N7-C8	9.57	109.09	104.30
36	1	495	G	N3-C4-N9	-9.57	120.26	126.00
36	5	582	G	C5-C6-O6	9.57	134.34	128.60
36	5	2420	C	C5-C6-N1	9.57	125.78	121.00
36	1	963	G	C4-C5-N7	9.57	114.63	110.80
36	5	2312	A	N9-C4-C5	9.57	109.63	105.80
36	5	1300	G	N1-C6-O6	9.56	125.64	119.90
1	2	1096	C	C2-N1-C1'	9.56	129.32	118.80
36	1	1303	A	N1-C6-N6	9.56	124.34	118.60
36	5	2155	G	C5-C6-N1	-9.56	106.72	111.50
36	5	1391	C	C6-N1-C2	9.56	124.12	120.30
36	1	2982	A	C6-N1-C2	-9.56	112.86	118.60
36	5	521	A	N1-C2-N3	9.56	134.08	129.30
36	5	1367	G	N1-C6-O6	9.56	125.64	119.90
36	5	595	G	C8-N9-C1'	-9.56	114.58	127.00
1	2	1299	G	N3-C4-C5	-9.55	123.82	128.60
36	1	2197	C	C4-C5-C6	-9.56	112.62	117.40
1	6	1473	U	O5'-P-OP1	9.55	122.17	110.70
36	5	645	A	C2-N3-C4	9.55	115.38	110.60
36	5	913	A	C6-N1-C2	-9.55	112.87	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1099	A	N1-C6-N6	9.55	124.33	118.60
36	5	3085	G	C8-N9-C4	9.55	110.22	106.40
36	5	1444	G	N3-C4-C5	-9.55	123.82	128.60
38	8	1	A	C4-C5-N7	-9.55	105.92	110.70
1	2	1757	G	N3-C4-C5	-9.55	123.83	128.60
36	1	1111	U	C6-N1-C2	9.55	126.73	121.00
36	1	2614	G	N1-C2-N2	-9.55	107.60	116.20
36	5	2283	G	C5-C6-O6	-9.55	122.87	128.60
36	5	2283	G	C5-N7-C8	-9.55	99.53	104.30
36	1	975	C	C6-N1-C2	-9.55	116.48	120.30
1	6	163	G	C8-N9-C4	-9.55	102.58	106.40
1	6	758	U	C5-C6-N1	-9.54	117.93	122.70
1	6	972	G	C6-C5-N7	-9.54	124.67	130.40
36	5	2943	G	C5-N7-C8	-9.54	99.53	104.30
36	1	428	A	N1-C6-N6	9.54	124.33	118.60
38	4	117	C	N1-C2-O2	-9.54	113.18	118.90
36	5	283	G	N3-C4-C5	-9.54	123.83	128.60
37	7	109	G	N9-C4-C5	-9.54	101.58	105.40
36	5	283	G	C4-N9-C1'	9.54	138.90	126.50
36	5	1780	G	O5'-P-OP2	-9.54	97.11	105.70
1	6	1146	G	C8-N9-C4	-9.54	102.58	106.40
1	6	1159	C	C6-N1-C2	9.54	124.11	120.30
36	5	1883	A	C2-N3-C4	-9.54	105.83	110.60
36	1	718	G	C4-C5-N7	9.54	114.61	110.80
36	1	905	U	N1-C2-O2	-9.54	116.13	122.80
36	1	2866	U	N1-C2-N3	9.53	120.62	114.90
36	5	874	U	C6-N1-C2	-9.53	115.28	121.00
36	1	2182	A	N1-C6-N6	9.53	124.32	118.60
36	1	2798	C	C6-N1-C2	-9.53	116.49	120.30
1	6	388	G	N1-C6-O6	9.53	125.62	119.90
36	5	2584	G	C4-N9-C1'	9.53	138.88	126.50
36	1	1340	G	C4-C5-N7	9.53	114.61	110.80
1	6	624	G	C4-C5-N7	9.53	114.61	110.80
36	5	396	A	C2-N3-C4	-9.53	105.84	110.60
36	1	1367	G	C5-C6-N1	-9.52	106.74	111.50
1	6	1447	C	C6-N1-C2	-9.52	116.49	120.30
36	5	3294	A	N1-C6-N6	-9.52	112.89	118.60
1	6	1729	C	C5-C6-N1	-9.52	116.24	121.00
36	1	583	G	C4-C5-N7	-9.51	106.99	110.80
36	1	2409	G	C6-C5-N7	-9.51	124.69	130.40
36	5	3091	A	C4-C5-C6	9.51	121.76	117.00
36	5	1902	G	C6-C5-N7	-9.51	124.69	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	856	G	C5-C6-O6	9.51	134.31	128.60
36	1	2374	C	O5'-P-OP2	-9.51	97.14	105.70
36	1	1173	U	N3-C2-O2	-9.51	115.54	122.20
36	1	1928	G	N3-C4-C5	9.51	133.35	128.60
36	1	1196	C	O4'-C1'-N1	-9.51	100.59	108.20
1	6	1031	U	N3-C2-O2	-9.51	115.54	122.20
36	5	2549	G	C6-C5-N7	-9.51	124.70	130.40
1	6	308	C	C2-N1-C1'	-9.50	108.35	118.80
1	2	1555	A	N1-C6-N6	-9.50	112.90	118.60
36	1	423	A	N1-C6-N6	-9.50	112.90	118.60
1	2	1277	G	C8-N9-C4	-9.50	102.60	106.40
36	1	1888	U	N1-C2-O2	9.50	129.45	122.80
37	3	36	C	C2-N1-C1'	9.50	129.25	118.80
36	1	3373	U	C6-N1-C2	9.50	126.70	121.00
1	6	1786	G	N1-C6-O6	-9.50	114.20	119.90
36	5	1498	A	N1-C6-N6	-9.50	112.90	118.60
36	5	2915	U	N3-C4-O4	9.50	126.05	119.40
36	5	1212	A	C5-C6-N6	-9.49	116.11	123.70
36	5	1408	G	C2-N3-C4	-9.49	107.15	111.90
36	5	2400	G	O4'-C1'-N9	9.49	115.80	108.20
36	5	811	U	C5-C6-N1	-9.49	117.95	122.70
36	5	1108	U	C6-N1-C2	-9.49	115.31	121.00
36	1	101	G	C5-N7-C8	-9.49	99.56	104.30
1	6	1086	A	C5-C6-N6	9.49	131.29	123.70
36	1	1122	U	N1-C2-N3	9.49	120.59	114.90
1	6	1142	A	N1-C6-N6	-9.49	112.91	118.60
36	5	879	U	N3-C2-O2	9.49	128.84	122.20
36	5	2630	C	O5'-P-OP1	-9.49	97.16	105.70
36	1	189	G	N9-C4-C5	9.49	109.19	105.40
36	1	615	U	N3-C2-O2	-9.49	115.56	122.20
36	5	3057	U	O5'-P-OP2	-9.49	97.16	105.70
36	1	937	G	C5-N7-C8	-9.48	99.56	104.30
36	1	1116	G	N3-C4-C5	-9.48	123.86	128.60
36	1	2335	G	N3-C4-C5	-9.48	123.86	128.60
36	1	929	A	OP1-P-O3'	9.48	126.06	105.20
36	1	2403	G	N1-C6-O6	9.48	125.59	119.90
36	5	1867	A	C2-N3-C4	-9.48	105.86	110.60
36	5	821	U	C6-N1-C2	-9.48	115.31	121.00
36	1	3208	G	N3-C2-N2	9.48	126.53	119.90
36	1	2824	G	N1-C6-O6	9.48	125.59	119.90
1	2	111	U	C5-C4-O4	-9.47	120.22	125.90
36	1	3181	C	N3-C2-O2	-9.47	115.27	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	680	G	O5'-P-OP2	-9.47	97.17	105.70
36	5	808	A	C6-N1-C2	-9.47	112.92	118.60
36	1	342	A	N9-C4-C5	-9.47	102.01	105.80
36	1	1396	C	C5-C4-N4	-9.47	113.57	120.20
36	1	2697	A	N1-C2-N3	9.47	134.04	129.30
1	6	1634	C	C2-N1-C1'	9.47	129.22	118.80
36	1	2333	C	C5-C6-N1	-9.47	116.27	121.00
1	6	1480	G	C4-C5-N7	9.47	114.59	110.80
36	5	2705	A	C5-C6-N1	9.47	122.43	117.70
36	5	2799	A	N9-C4-C5	9.47	109.59	105.80
36	5	2887	A	C6-N1-C2	-9.46	112.92	118.60
1	2	342	C	C5-C6-N1	-9.46	116.27	121.00
36	1	2762	A	C6-N1-C2	-9.46	112.92	118.60
36	5	2957	G	N3-C4-C5	9.46	133.33	128.60
36	1	1840	U	C2-N3-C4	-9.46	121.32	127.00
1	6	1063	U	C5-C6-N1	9.46	127.43	122.70
1	6	419	G	C5-C6-N1	9.46	116.23	111.50
36	5	3295	A	C6-N1-C2	-9.46	112.92	118.60
36	1	3118	C	O5'-P-OP1	-9.46	97.19	105.70
1	6	1729	C	C6-N1-C2	9.45	124.08	120.30
36	5	1127	G	N1-C6-O6	-9.45	114.23	119.90
36	1	2280	A	C8-N9-C4	-9.45	102.02	105.80
36	5	1429	G	N1-C2-N3	9.45	129.57	123.90
36	1	37	U	C6-N1-C2	9.45	126.67	121.00
36	1	2377	G	C8-N9-C4	-9.45	102.62	106.40
36	1	3197	G	N1-C6-O6	9.45	125.57	119.90
36	5	3054	U	N1-C2-O2	-9.45	116.19	122.80
36	1	432	G	C5-C6-N1	-9.45	106.78	111.50
36	1	857	G	C4-C5-N7	-9.45	107.02	110.80
36	1	2974	U	C5-C6-N1	9.45	127.42	122.70
36	5	891	G	C8-N9-C4	-9.45	102.62	106.40
36	5	1839	A	O5'-P-OP1	-9.45	97.20	105.70
36	5	3004	C	C5-C4-N4	-9.44	113.59	120.20
36	5	2584	G	N7-C8-N9	9.44	117.82	113.10
1	2	1615	C	C6-N1-C2	-9.44	116.52	120.30
36	1	435	C	C5-C6-N1	-9.44	116.28	121.00
36	1	798	G	O5'-P-OP1	-9.44	97.20	105.70
36	5	127	G	N1-C6-O6	9.44	125.56	119.90
36	5	278	U	N3-C2-O2	-9.44	115.59	122.20
36	5	283	G	N3-C4-N9	9.44	131.66	126.00
36	5	2991	A	C6-N1-C2	-9.44	112.94	118.60
36	1	2625	C	N1-C2-N3	-9.44	112.59	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1136	U	C5-C4-O4	-9.44	120.24	125.90
36	5	1512	U	O5'-P-OP1	-9.44	97.21	105.70
36	5	1898	G	N1-C6-O6	-9.44	114.24	119.90
36	5	3065	G	N1-C2-N3	9.44	129.56	123.90
38	4	27	U	O5'-P-OP2	9.43	122.02	110.70
1	2	967	A	N9-C4-C5	-9.43	102.03	105.80
36	5	2305	G	C4-C5-N7	-9.43	107.03	110.80
36	5	1139	G	N1-C6-O6	-9.43	114.24	119.90
36	5	3323	A	N1-C6-N6	-9.43	112.94	118.60
36	1	2729	U	O5'-P-OP1	-9.43	97.22	105.70
36	1	2823	G	N1-C2-N3	9.43	129.56	123.90
36	5	2118	C	C6-N1-C2	-9.43	116.53	120.30
36	1	1002	A	N7-C8-N9	-9.42	109.09	113.80
36	1	3010	U	C5-C6-N1	9.42	127.41	122.70
36	5	189	G	N9-C4-C5	9.42	109.17	105.40
36	5	945	C	N3-C4-C5	-9.42	118.13	121.90
36	1	2871	G	N3-C4-C5	9.42	133.31	128.60
36	1	344	A	N7-C8-N9	9.42	118.51	113.80
36	1	1180	A	N1-C6-N6	-9.42	112.95	118.60
36	5	2283	G	N9-C4-C5	-9.42	101.63	105.40
36	1	1906	G	O5'-P-OP1	-9.42	97.22	105.70
36	1	2959	C	N3-C2-O2	9.42	128.49	121.90
1	6	1086	A	N1-C6-N6	-9.42	112.95	118.60
1	6	456	A	N1-C2-N3	9.41	134.01	129.30
36	5	1847	A	N3-C4-C5	9.41	133.39	126.80
36	1	879	U	N1-C2-O2	-9.41	116.21	122.80
36	5	3377	G	C5-C6-N1	9.41	116.21	111.50
36	1	1175	C	N1-C2-O2	-9.41	113.25	118.90
36	1	2305	G	C8-N9-C4	-9.41	102.64	106.40
36	1	1930	A	C8-N9-C4	9.41	109.56	105.80
1	6	992	A	C2-N3-C4	-9.41	105.90	110.60
36	5	2395	G	N1-C6-O6	9.41	125.54	119.90
36	5	2820	A	OP1-P-O3'	-9.41	84.51	105.20
36	1	691	A	O5'-P-OP1	-9.40	97.24	105.70
1	2	334	G	C4-N9-C1'	-9.40	114.28	126.50
1	2	573	C	N3-C4-C5	-9.40	118.14	121.90
36	1	1191	U	C6-N1-C2	9.40	126.64	121.00
36	1	3193	C	C6-N1-C2	-9.40	116.54	120.30
36	5	3208	G	C4-C5-C6	9.40	124.44	118.80
37	7	15	C	O5'-P-OP2	-9.40	97.24	105.70
1	2	830	U	N1-C2-O2	9.39	129.37	122.80
36	1	1224	C	N3-C2-O2	-9.39	115.33	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2880	U	C6-N1-C1'	9.39	134.35	121.20
37	7	88	G	N3-C4-C5	-9.39	123.91	128.60
36	1	2309	A	N1-C6-N6	9.39	124.23	118.60
36	1	3137	C	N3-C4-C5	9.39	125.66	121.90
37	3	26	C	O5'-P-OP2	-9.39	97.25	105.70
36	1	1039	U	C5-C6-N1	-9.38	118.01	122.70
36	1	1157	G	C8-N9-C4	-9.38	102.65	106.40
36	1	3204	C	N3-C2-O2	-9.38	115.33	121.90
36	5	2877	G	N1-C2-N3	9.38	129.53	123.90
1	6	1768	G	C5-N7-C8	-9.38	99.61	104.30
36	1	805	G	N1-C6-O6	9.38	125.53	119.90
36	1	933	A	C8-N9-C4	-9.38	102.05	105.80
36	5	562	C	C6-N1-C2	9.38	124.05	120.30
36	5	2963	C	N1-C2-O2	-9.38	113.27	118.90
36	1	2895	G	N3-C4-N9	9.38	131.62	126.00
1	6	175	G	N1-C6-O6	9.38	125.53	119.90
1	6	1572	G	C2-N3-C4	-9.37	107.21	111.90
36	5	3182	G	N1-C2-N3	9.37	129.52	123.90
1	2	47	A	C8-N9-C4	-9.37	102.05	105.80
36	5	1895	A	C5-C6-N1	9.37	122.39	117.70
36	5	2164	A	N1-C6-N6	-9.37	112.98	118.60
36	5	2858	U	C6-N1-C2	-9.37	115.38	121.00
37	7	112	G	N1-C6-O6	-9.37	114.28	119.90
1	6	95	G	N1-C6-O6	-9.37	114.28	119.90
36	5	1046	A	O5'-P-OP2	9.37	121.94	110.70
36	1	1178	G	C4-C5-N7	9.37	114.55	110.80
36	1	1877	U	C6-N1-C2	9.37	126.62	121.00
36	5	2419	A	O5'-P-OP1	9.37	121.94	110.70
36	1	883	A	N1-C2-N3	9.37	133.98	129.30
36	1	1423	C	N3-C4-C5	-9.37	118.15	121.90
38	4	53	A	C4-C5-N7	-9.36	106.02	110.70
36	5	89	A	O5'-P-OP1	9.36	121.94	110.70
36	5	1212	A	C8-N9-C4	-9.37	102.05	105.80
36	5	2620	G	N3-C4-N9	-9.37	120.38	126.00
36	5	2874	G	C4-N9-C1'	9.36	138.67	126.50
36	5	1520	G	C4-N9-C1'	9.36	138.67	126.50
36	5	1896	A	O5'-P-OP1	-9.36	97.28	105.70
36	5	2678	A	C5-C6-N6	9.36	131.19	123.70
36	5	2699	G	C5-C6-O6	-9.36	122.98	128.60
37	7	84	A	N1-C2-N3	9.36	133.98	129.30
36	1	285	A	N1-C6-N6	9.36	124.21	118.60
36	1	2168	A	C4-C5-N7	-9.36	106.02	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	804	C	OP1-P-O3'	9.36	125.78	105.20
36	5	2886	U	C2-N3-C4	-9.36	121.39	127.00
36	1	2383	C	N1-C2-O2	-9.35	113.29	118.90
36	1	3027	A	C2-N3-C4	-9.35	105.92	110.60
36	5	959	C	C4-C5-C6	9.35	122.08	117.40
36	5	2618	G	N1-C6-O6	-9.35	114.29	119.90
36	5	1142	G	OP1-P-OP2	9.35	133.62	119.60
36	5	2914	G	C5-N7-C8	-9.35	99.63	104.30
36	5	168	U	O5'-P-OP1	-9.35	97.29	105.70
36	1	691	A	N1-C6-N6	9.35	124.21	118.60
36	1	833	G	C5-C6-O6	9.35	134.21	128.60
36	1	1208	U	C6-N1-C1'	-9.34	108.12	121.20
36	5	2281	A	O4'-C1'-N9	9.34	115.68	108.20
36	5	2816	G	C4-N9-C1'	-9.34	114.35	126.50
36	1	2759	U	N3-C2-O2	-9.34	115.66	122.20
1	2	331	A	C5-C6-N6	9.34	131.17	123.70
36	1	350	C	N1-C2-O2	9.34	124.50	118.90
36	1	1149	G	N1-C2-N3	9.34	129.50	123.90
36	1	2390	A	C5-C6-N1	9.34	122.37	117.70
36	1	2866	U	N3-C2-O2	-9.34	115.66	122.20
36	1	3199	G	O5'-P-OP1	-9.34	97.29	105.70
36	5	568	G	N3-C4-N9	9.34	131.60	126.00
36	5	3012	A	N1-C6-N6	9.34	124.20	118.60
36	1	1431	G	N7-C8-N9	-9.34	108.43	113.10
36	5	1115	G	N3-C4-C5	-9.34	123.93	128.60
1	2	1782	A	C8-N9-C4	-9.33	102.07	105.80
36	1	3383	G	N3-C4-N9	-9.33	120.40	126.00
36	5	1151	U	N3-C2-O2	-9.33	115.67	122.20
36	5	2306	C	C6-N1-C1'	-9.33	109.60	120.80
36	5	880	G	O5'-P-OP2	-9.33	97.30	105.70
37	3	25	G	N3-C4-C5	-9.33	123.94	128.60
36	1	1153	A	C2-N3-C4	-9.33	105.94	110.60
1	2	967	A	C8-N9-C4	9.32	109.53	105.80
36	1	99	A	O4'-C1'-N9	9.32	115.66	108.20
36	5	1156	C	N3-C4-N4	9.32	124.53	118.00
36	1	2943	G	C5-C6-O6	-9.32	123.01	128.60
36	5	1136	A	N1-C2-N3	9.32	133.96	129.30
36	5	2741	C	C5-C6-N1	9.32	125.66	121.00
36	1	93	C	C4-C5-C6	-9.32	112.74	117.40
36	1	1153	A	N1-C2-N3	9.32	133.96	129.30
36	5	1514	G	C6-C5-N7	-9.32	124.81	130.40
36	1	693	A	C2-N3-C4	-9.31	105.94	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2683	U	C5-C6-N1	9.31	127.36	122.70
37	7	13	A	C2-N3-C4	-9.31	105.94	110.60
36	1	366	A	N7-C8-N9	9.31	118.46	113.80
36	1	47	C	N3-C4-C5	-9.31	118.18	121.90
36	1	1157	G	C5-C6-N1	-9.31	106.84	111.50
36	1	1177	G	C4-C5-N7	9.31	114.52	110.80
36	1	2925	C	C2-N1-C1'	-9.31	108.56	118.80
36	5	575	G	C5-C6-O6	-9.31	123.01	128.60
36	5	2837	A	N7-C8-N9	-9.31	109.14	113.80
36	5	1536	G	C8-N9-C4	9.31	110.12	106.40
36	5	1907	C	N3-C4-C5	-9.31	118.18	121.90
36	5	1317	A	C6-N1-C2	-9.31	113.02	118.60
1	2	1241	G	O4'-C1'-N9	9.31	115.65	108.20
36	5	425	G	N3-C2-N2	-9.31	113.38	119.90
36	5	2991	A	N1-C6-N6	-9.31	113.02	118.60
36	5	1176	C	C5-C6-N1	-9.30	116.35	121.00
36	5	3269	U	C6-N1-C2	9.31	126.58	121.00
38	8	7	U	C5-C6-N1	-9.31	118.05	122.70
36	5	1101	G	N3-C4-N9	9.30	131.58	126.00
36	5	1322	U	O5'-P-OP1	-9.30	97.33	105.70
36	1	629	U	C5-C6-N1	-9.30	118.05	122.70
36	5	372	A	N1-C6-N6	-9.30	113.02	118.60
36	1	682	U	O5'-P-OP1	-9.30	97.33	105.70
36	5	1150	A	C6-N1-C2	-9.30	113.02	118.60
36	5	3050	U	C5-C6-N1	-9.30	118.05	122.70
37	3	98	C	O5'-P-OP2	-9.30	97.33	105.70
1	6	636	A	N1-C6-N6	-9.29	113.02	118.60
36	5	349	A	N1-C6-N6	-9.29	113.02	118.60
36	5	2403	G	C5-C6-O6	-9.29	123.02	128.60
36	5	2897	A	C4-C5-C6	9.29	121.65	117.00
52	m6	101	ARG	NE-CZ-NH1	9.29	124.95	120.30
36	1	2394	G	N1-C6-O6	-9.29	114.33	119.90
36	5	1468	A	N1-C2-N3	9.29	133.95	129.30
36	1	689	U	N1-C2-N3	-9.29	109.33	114.90
36	5	885	U	N1-C2-N3	9.29	120.47	114.90
36	1	1867	A	C2-N3-C4	-9.29	105.96	110.60
36	5	1430	U	C6-N1-C2	9.29	126.57	121.00
18	C6	40	GLU	C-N-CD	-9.28	100.17	120.60
36	1	1769	G	C8-N9-C4	-9.28	102.69	106.40
36	1	3028	G	O5'-P-OP1	-9.28	97.34	105.70
36	1	751	A	N1-C6-N6	-9.28	113.03	118.60
36	5	2728	G	N3-C4-C5	-9.28	123.96	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2147	A	O5'-P-OP1	-9.28	97.35	105.70
1	6	1639	C	N3-C4-C5	9.28	125.61	121.90
36	5	2352	A	C6-N1-C2	-9.28	113.03	118.60
1	6	1355	C	C5-C6-N1	9.28	125.64	121.00
36	5	3010	U	N1-C2-O2	9.28	129.29	122.80
1	6	1784	C	N3-C4-C5	9.28	125.61	121.90
36	5	1405	U	C5-C4-O4	9.28	131.47	125.90
36	5	3211	C	O5'-P-OP1	-9.28	97.35	105.70
36	1	660	A	N1-C6-N6	-9.28	113.03	118.60
36	1	877	C	C6-N1-C2	-9.28	116.59	120.30
36	1	1182	A	N9-C4-C5	-9.28	102.09	105.80
36	1	2850	G	N1-C6-O6	-9.28	114.33	119.90
36	5	283	G	O4'-C1'-N9	-9.28	100.78	108.20
36	5	1054	A	O5'-P-OP2	-9.28	97.35	105.70
36	1	2355	G	N1-C6-O6	9.27	125.46	119.90
36	1	1301	A	C5-C6-N6	-9.27	116.28	123.70
1	6	453	U	C2-N1-C1'	9.27	128.82	117.70
36	5	289	A	C4-C5-N7	9.27	115.34	110.70
38	8	31	G	C5-C6-O6	9.27	134.16	128.60
36	1	798	G	N7-C8-N9	9.27	117.73	113.10
36	1	1305	U	C6-N1-C2	-9.27	115.44	121.00
1	6	1700	C	N1-C2-O2	9.27	124.46	118.90
36	5	364	G	O5'-P-OP2	9.27	121.82	110.70
36	1	213	A	N1-C6-N6	9.27	124.16	118.60
36	1	1057	A	C5-C6-N1	-9.27	113.07	117.70
36	1	2953	U	N3-C4-O4	9.27	125.89	119.40
36	5	1046	A	O5'-P-OP1	-9.27	97.36	105.70
36	5	1163	A	N1-C2-N3	9.27	133.93	129.30
36	5	2376	G	C4-C5-N7	9.27	114.51	110.80
36	5	2387	A	O5'-P-OP1	-9.27	97.36	105.70
36	5	2392	C	N1-C2-O2	-9.27	113.34	118.90
36	1	2980	U	N1-C2-O2	-9.26	116.31	122.80
36	5	2794	G	C5-C6-O6	-9.26	123.04	128.60
1	6	326	G	C5-C6-N1	-9.26	106.87	111.50
36	5	2279	A	C5-N7-C8	-9.26	99.27	103.90
36	5	3036	G	C5-C6-N1	-9.26	106.87	111.50
36	5	1794	G	N7-C8-N9	-9.26	108.47	113.10
36	5	3295	A	N1-C2-N3	9.26	133.93	129.30
36	1	1177	G	N9-C4-C5	-9.26	101.70	105.40
69	O3	7	LEU	CA-CB-CG	-9.26	94.00	115.30
36	5	688	G	C6-C5-N7	-9.26	124.84	130.40
36	5	875	G	N3-C2-N2	-9.26	113.42	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1213	G	N9-C4-C5	9.26	109.10	105.40
36	5	2340	U	O5'-P-OP2	9.26	121.81	110.70
36	1	1905	G	N3-C4-C5	9.26	133.23	128.60
36	1	3202	G	C8-N9-C4	9.26	110.10	106.40
36	5	3206	C	N1-C2-O2	9.26	124.45	118.90
36	1	32	U	C6-N1-C2	9.25	126.55	121.00
36	1	2156	C	C5-C6-N1	-9.25	116.37	121.00
36	5	921	A	C8-N9-C4	-9.25	102.10	105.80
36	1	2414	G	N1-C6-O6	9.25	125.45	119.90
1	6	815	G	N3-C4-C5	9.25	133.22	128.60
36	5	2849	C	N3-C4-C5	-9.25	118.20	121.90
1	6	1139	A	C5-C6-N6	-9.25	116.30	123.70
36	5	636	C	N1-C2-O2	-9.25	113.35	118.90
36	5	1095	U	C6-N1-C2	-9.25	115.45	121.00
36	5	1375	G	N3-C4-C5	-9.24	123.98	128.60
36	5	2638	C	N3-C4-C5	-9.24	118.20	121.90
36	5	2830	G	C2-N3-C4	-9.24	107.28	111.90
36	1	1336	U	O5'-P-OP1	-9.24	97.38	105.70
36	1	2641	U	N1-C2-O2	9.24	129.27	122.80
36	1	645	A	N3-C4-C5	-9.24	120.33	126.80
36	1	801	A	N1-C6-N6	9.24	124.14	118.60
36	1	835	G	C4-C5-N7	9.24	114.49	110.80
36	1	2187	G	C8-N9-C4	-9.24	102.70	106.40
36	1	227	G	N3-C4-N9	9.23	131.54	126.00
36	1	1192	C	C2-N1-C1'	9.23	128.96	118.80
36	1	2198	A	O5'-P-OP1	-9.23	97.39	105.70
36	5	935	U	C6-N1-C2	-9.23	115.46	121.00
36	5	1286	A	C8-N9-C4	9.23	109.49	105.80
36	5	1295	G	C5-C6-O6	-9.23	123.06	128.60
36	1	693	A	N7-C8-N9	9.23	118.42	113.80
36	1	3308	C	C6-N1-C2	-9.23	116.61	120.30
36	1	952	A	N9-C4-C5	9.23	109.49	105.80
36	1	2308	C	C6-N1-C2	9.23	123.99	120.30
36	1	1408	G	C6-C5-N7	-9.23	124.86	130.40
36	1	229	G	O5'-P-OP1	-9.23	97.40	105.70
36	1	370	U	N3-C4-O4	9.23	125.86	119.40
36	1	1054	A	O5'-P-OP1	9.23	121.77	110.70
36	1	1176	C	N1-C2-O2	-9.23	113.36	118.90
36	5	2986	U	N1-C2-N3	9.23	120.44	114.90
36	1	306	A	N1-C6-N6	-9.22	113.06	118.60
36	1	720	A	O5'-P-OP1	-9.22	97.40	105.70
36	5	1142	G	O5'-P-OP1	-9.22	97.40	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2682	C	C6-N1-C2	-9.22	116.61	120.30
36	5	3046	A	N1-C6-N6	-9.22	113.06	118.60
36	5	1126	G	C5-C6-N1	-9.22	106.89	111.50
36	1	518	G	N3-C4-N9	-9.22	120.47	126.00
36	5	1307	G	C5-C6-O6	-9.22	123.07	128.60
36	5	2632	G	C5-C6-O6	-9.22	123.07	128.60
1	6	1601	G	C8-N9-C4	-9.21	102.71	106.40
36	5	395	A	C8-N9-C4	-9.21	102.11	105.80
36	1	2942	C	C6-N1-C2	-9.21	116.61	120.30
36	5	1897	G	N9-C4-C5	-9.21	101.72	105.40
36	5	1116	G	C6-C5-N7	-9.21	124.87	130.40
36	1	365	A	N1-C2-N3	9.21	133.90	129.30
36	1	757	C	O5'-P-OP2	-9.21	97.42	105.70
36	1	1103	A	O5'-P-OP2	9.20	121.75	110.70
36	5	2108	C	C5-C6-N1	-9.20	116.40	121.00
36	5	2138	A	N1-C2-N3	9.20	133.90	129.30
36	5	2300	G	O5'-P-OP2	-9.20	97.42	105.70
37	7	49	G	C5-N7-C8	-9.20	99.70	104.30
37	7	91	G	C2-N3-C4	-9.20	107.30	111.90
36	1	1077	U	C5-C6-N1	-9.20	118.10	122.70
37	7	99	G	C4-C5-N7	-9.20	107.12	110.80
36	1	2188	A	C6-N1-C2	-9.20	113.08	118.60
36	1	358	G	C5-C6-O6	-9.19	123.08	128.60
36	1	693	A	N1-C6-N6	9.19	124.12	118.60
36	5	1000	C	N3-C4-C5	9.19	125.58	121.90
36	5	1147	G	C4-C5-N7	9.20	114.48	110.80
36	5	1604	G	C5-C6-O6	9.19	134.12	128.60
36	1	839	C	C6-N1-C2	9.19	123.98	120.30
36	1	2611	U	N3-C4-C5	-9.19	109.08	114.60
36	1	1170	A	C5-C6-N6	-9.19	116.35	123.70
1	6	1100	G	N9-C4-C5	-9.19	101.72	105.40
36	5	1373	A	C6-C5-N7	-9.19	125.87	132.30
36	1	40	A	C8-N9-C4	-9.19	102.13	105.80
36	5	1881	A	C6-N1-C2	-9.18	113.09	118.60
36	5	3343	G	C4-N9-C1'	9.18	138.44	126.50
36	1	2732	G	O5'-P-OP2	-9.18	97.44	105.70
36	5	197	G	C4-C5-N7	9.18	114.47	110.80
36	5	3325	G	C8-N9-C4	9.18	110.07	106.40
36	1	3091	A	C8-N9-C4	-9.18	102.13	105.80
36	5	2212	C	C2-N1-C1'	9.18	128.90	118.80
36	5	3079	U	N1-C2-N3	9.18	120.41	114.90
36	5	1306	G	N7-C8-N9	9.18	117.69	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2887	A	C8-N9-C4	-9.18	102.13	105.80
36	1	937	G	C6-C5-N7	-9.17	124.90	130.40
36	5	695	C	C2-N3-C4	-9.17	115.31	119.90
36	5	3024	A	C8-N9-C4	9.17	109.47	105.80
36	1	1100	U	C2-N3-C4	-9.17	121.50	127.00
36	1	2323	G	C4-C5-N7	9.17	114.47	110.80
36	1	3263	G	N3-C4-N9	9.17	131.50	126.00
36	5	289	A	C5-N7-C8	-9.17	99.31	103.90
36	5	920	A	OP2-P-O3'	9.17	125.38	105.20
36	5	3147	G	N9-C4-C5	-9.17	101.73	105.40
36	1	1151	U	N3-C4-O4	9.17	125.82	119.40
36	1	2863	G	C2-N3-C4	-9.17	107.31	111.90
36	5	2972	G	OP1-P-O3'	9.17	125.37	105.20
36	5	3009	G	C8-N9-C4	-9.17	102.73	106.40
36	5	363	G	C4-C5-N7	9.17	114.47	110.80
36	5	1391	C	C5-C6-N1	-9.17	116.42	121.00
36	5	3214	U	N3-C2-O2	-9.17	115.78	122.20
36	5	2637	A	C2-N3-C4	-9.16	106.02	110.60
36	5	3200	G	N1-C6-O6	9.16	125.40	119.90
36	1	2356	A	C6-C5-N7	-9.16	125.89	132.30
36	1	3142	A	C2-N3-C4	-9.16	106.02	110.60
36	1	2988	C	N3-C2-O2	-9.16	115.49	121.90
36	1	2996	U	C6-N1-C1'	-9.16	108.38	121.20
36	5	2428	U	N1-C2-O2	-9.16	116.39	122.80
36	1	1140	G	C2-N3-C4	-9.16	107.32	111.90
1	6	1546	G	C6-C5-N7	-9.16	124.91	130.40
36	5	1211	U	C5-C6-N1	-9.16	118.12	122.70
36	5	2661	G	C6-C5-N7	-9.16	124.91	130.40
36	5	3246	G	N7-C8-N9	9.16	117.68	113.10
36	5	2715	A	C8-N9-C4	-9.16	102.14	105.80
36	1	697	A	N9-C4-C5	-9.15	102.14	105.80
36	5	1129	A	C6-C5-N7	-9.15	125.89	132.30
36	5	1473	G	N9-C4-C5	-9.15	101.74	105.40
36	1	1183	C	C6-N1-C2	9.15	123.96	120.30
36	1	439	C	C2-N1-C1'	9.15	128.87	118.80
36	1	655	C	N3-C4-C5	-9.15	118.24	121.90
1	6	1564	U	C5-C4-O4	-9.15	120.41	125.90
36	5	506	U	N1-C2-O2	-9.15	116.39	122.80
36	5	1906	G	C5-C6-N1	9.15	116.07	111.50
36	5	650	C	N1-C2-O2	-9.15	113.41	118.90
36	1	1451	C	C6-N1-C2	9.14	123.96	120.30
36	5	2841	G	N1-C6-O6	-9.14	114.41	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1751	C	C2-N3-C4	-9.14	115.33	119.90
36	1	2609	A	O5'-P-OP1	9.14	121.67	110.70
36	1	107	A	C5-N7-C8	-9.14	99.33	103.90
36	5	990	U	N3-C2-O2	-9.14	115.80	122.20
36	5	1059	G	N9-C4-C5	9.14	109.06	105.40
36	5	2346	C	N1-C2-O2	-9.14	113.42	118.90
36	5	1311	G	O5'-P-OP2	-9.14	97.48	105.70
36	1	2378	C	N3-C4-C5	9.13	125.55	121.90
36	1	2644	C	C4-C5-C6	9.13	121.97	117.40
36	1	2813	A	O5'-P-OP2	-9.14	97.48	105.70
36	1	2827	U	C5-C6-N1	-9.14	118.13	122.70
36	5	911	C	N1-C2-N3	9.14	125.59	119.20
36	1	2883	U	N3-C2-O2	-9.13	115.81	122.20
1	6	1602	C	N3-C2-O2	-9.13	115.51	121.90
36	5	3037	U	N3-C2-O2	9.13	128.59	122.20
36	1	2129	U	N3-C2-O2	-9.13	115.81	122.20
36	5	1548	C	N3-C2-O2	9.13	128.29	121.90
1	6	151	G	N3-C2-N2	-9.13	113.51	119.90
36	5	33	G	C5-C6-O6	9.13	134.08	128.60
36	5	857	G	C4-C5-C6	9.13	124.28	118.80
38	8	38	U	N1-C2-N3	9.13	120.38	114.90
36	1	3202	G	C5-C6-O6	-9.13	123.12	128.60
36	1	933	A	N3-C4-C5	-9.12	120.41	126.80
36	1	1408	G	C5-C6-O6	-9.12	123.12	128.60
1	6	1662	G	C8-N9-C4	9.12	110.05	106.40
36	1	714	G	N9-C4-C5	-9.12	101.75	105.40
36	1	860	G	C6-C5-N7	-9.12	124.93	130.40
36	1	917	A	O5'-P-OP2	-9.12	97.49	105.70
36	1	2308	C	C2-N3-C4	-9.12	115.34	119.90
1	6	7	G	O5'-P-OP2	-9.12	97.49	105.70
1	6	1274	C	C6-N1-C2	-9.12	116.65	120.30
1	6	1040	G	O5'-P-OP2	-9.12	97.49	105.70
36	5	2817	A	C2-N3-C4	9.12	115.16	110.60
36	1	3062	G	N1-C6-O6	9.12	125.37	119.90
38	4	140	G	N9-C4-C5	9.12	109.05	105.40
36	1	2138	A	N1-C6-N6	9.12	124.07	118.60
36	1	2238	G	C5-C6-N1	9.12	116.06	111.50
36	1	1851	G	C5-C6-O6	-9.11	123.13	128.60
36	5	208	C	O5'-P-OP1	-9.12	97.50	105.70
36	5	827	A	N1-C6-N6	-9.11	113.13	118.60
36	5	726	G	C8-N9-C4	-9.11	102.75	106.40
36	5	784	A	C4-C5-N7	9.11	115.26	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2315	G	O5'-P-OP2	9.11	121.63	110.70
36	1	2661	G	C5-C6-O6	-9.11	123.13	128.60
1	6	41	A	N1-C6-N6	-9.11	113.14	118.60
36	1	1414	G	N9-C4-C5	-9.11	101.76	105.40
36	1	1507	G	N9-C4-C5	-9.11	101.76	105.40
36	1	2280	A	N7-C8-N9	9.11	118.35	113.80
37	7	85	G	C8-N9-C4	-9.11	102.76	106.40
1	6	1007	C	N3-C4-C5	9.11	125.54	121.90
36	5	1063	G	N3-C4-C5	9.11	133.15	128.60
36	5	1213	G	N3-C2-N2	-9.11	113.53	119.90
36	5	2327	U	C5-C6-N1	-9.11	118.15	122.70
36	1	1418	A	O5'-P-OP1	-9.10	97.51	105.70
36	5	1188	U	N1-C2-N3	9.10	120.36	114.90
36	1	679	U	N3-C4-O4	-9.10	113.03	119.40
36	1	2422	C	C5-C4-N4	9.10	126.57	120.20
36	1	2934	A	N1-C6-N6	9.10	124.06	118.60
36	5	941	G	C5-C6-N1	9.10	116.05	111.50
36	5	1389	G	N9-C4-C5	-9.10	101.76	105.40
36	5	2737	C	N1-C2-O2	-9.10	113.44	118.90
36	5	2934	A	C6-N1-C2	9.10	124.06	118.60
36	5	3040	A	N1-C2-N3	9.10	133.85	129.30
36	5	559	A	N1-C6-N6	9.10	124.06	118.60
1	6	1005	A	C6-N1-C2	-9.10	113.14	118.60
36	5	879	U	N1-C2-O2	-9.10	116.43	122.80
36	5	2621	G	C2-N3-C4	-9.10	107.35	111.90
36	5	3136	G	C4-C5-N7	9.10	114.44	110.80
36	5	2996	U	O5'-P-OP1	9.09	121.61	110.70
36	5	3376	A	N1-C2-N3	9.09	133.85	129.30
36	1	1443	G	C6-C5-N7	-9.09	124.95	130.40
36	5	592	A	O5'-P-OP2	-9.09	97.52	105.70
36	5	1099	A	C5-C6-N6	-9.09	116.43	123.70
36	5	1116	G	C2-N3-C4	-9.09	107.36	111.90
1	6	1572	G	C5-C6-N1	-9.09	106.96	111.50
36	5	784	A	C5-C6-N6	-9.09	116.43	123.70
36	1	1466	G	C6-C5-N7	-9.09	124.95	130.40
36	5	651	G	C6-C5-N7	-9.09	124.95	130.40
36	5	2334	U	N1-C2-N3	9.09	120.35	114.90
36	5	2192	C	O5'-P-OP2	-9.08	97.53	105.70
1	2	577	G	C6-C5-N7	-9.08	124.95	130.40
1	6	266	A	O5'-P-OP1	-9.08	97.53	105.70
36	5	287	G	C8-N9-C4	-9.08	102.77	106.40
36	1	3054	U	N1-C2-N3	9.08	120.35	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	891	A	N9-C4-C5	-9.08	102.17	105.80
36	5	1211	U	N1-C2-N3	-9.08	109.45	114.90
36	5	2241	U	O5'-P-OP1	-9.08	97.53	105.70
36	5	3166	C	C5-C6-N1	9.08	125.54	121.00
1	6	972	G	C5-C6-O6	-9.07	123.16	128.60
36	5	1898	G	C2-N3-C4	9.07	116.44	111.90
36	1	1829	G	N9-C4-C5	9.07	109.03	105.40
36	5	2393	G	N3-C4-N9	9.07	131.44	126.00
36	1	1406	A	C6-C5-N7	-9.07	125.95	132.30
1	6	1361	U	C2-N1-C1'	9.07	128.58	117.70
36	5	907	G	C8-N9-C4	9.07	110.03	106.40
36	5	2656	A	N9-C4-C5	9.07	109.43	105.80
36	5	1589	A	N9-C4-C5	-9.06	102.17	105.80
36	5	3095	U	C4-C5-C6	9.06	125.14	119.70
36	5	1049	C	N3-C4-C5	-9.06	118.28	121.90
36	5	3148	U	N3-C4-O4	-9.06	113.06	119.40
36	1	2886	U	C5-C4-O4	-9.06	120.46	125.90
36	1	3144	G	C5-C6-O6	-9.06	123.16	128.60
36	5	398	A	C8-N9-C4	9.06	109.42	105.80
36	5	1894	U	N3-C4-O4	9.06	125.74	119.40
36	1	2380	U	N3-C4-C5	9.06	120.03	114.60
36	1	2659	G	C6-C5-N7	-9.06	124.97	130.40
36	1	2283	G	C5-N7-C8	-9.05	99.77	104.30
36	1	2818	U	OP2-P-O3'	9.05	125.12	105.20
1	6	1778	G	C6-C5-N7	-9.05	124.97	130.40
1	6	1784	C	C6-N1-C2	9.05	123.92	120.30
36	5	1556	C	C6-N1-C1'	-9.05	109.94	120.80
36	5	2936	A	O5'-P-OP2	9.05	121.57	110.70
1	2	470	A	C8-N9-C4	9.05	109.42	105.80
36	1	1884	A	C5-C6-N6	9.05	130.94	123.70
36	5	825	U	O5'-P-OP1	-9.05	97.55	105.70
36	5	3200	G	C2-N3-C4	-9.05	107.38	111.90
1	2	1264	G	N1-C6-O6	-9.05	114.47	119.90
36	1	640	U	N3-C4-O4	9.05	125.73	119.40
36	1	2932	U	C5-C6-N1	-9.05	118.18	122.70
1	6	1332	C	N3-C4-C5	-9.05	118.28	121.90
36	5	985	U	O5'-P-OP2	-9.05	97.56	105.70
36	5	2770	G	C8-N9-C4	-9.05	102.78	106.40
36	1	1337	A	C6-N1-C2	-9.05	113.17	118.60
36	1	2980	U	C2-N3-C4	-9.05	121.57	127.00
36	1	3049	A	C8-N9-C4	9.04	109.42	105.80
1	6	456	A	C6-N1-C2	-9.05	113.17	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1163	A	N9-C4-C5	9.04	109.42	105.80
36	5	2111	G	N3-C4-N9	-9.04	120.57	126.00
36	5	64	G	C4-N9-C1'	9.04	138.25	126.50
36	5	1428	A	N1-C2-N3	9.04	133.82	129.30
36	5	3095	U	O5'-P-OP1	-9.04	97.56	105.70
36	1	65	A	N1-C6-N6	9.04	124.02	118.60
36	1	1374	G	N3-C4-C5	-9.04	124.08	128.60
36	1	699	A	C2-N3-C4	-9.04	106.08	110.60
36	1	1829	G	C8-N9-C4	-9.04	102.78	106.40
36	1	2326	A	C2-N3-C4	-9.04	106.08	110.60
36	1	2627	C	N1-C2-O2	-9.04	113.48	118.90
1	6	1614	A	C6-C5-N7	-9.04	125.97	132.30
1	6	1747	G	C8-N9-C4	9.04	110.01	106.40
36	5	963	G	O5'-P-OP1	9.04	121.54	110.70
36	5	1107	C	C2-N3-C4	-9.04	115.38	119.90
36	1	227	G	C8-N9-C1'	-9.03	115.25	127.00
36	5	1544	G	O5'-P-OP2	-9.03	97.57	105.70
36	5	1922	A	C2-N3-C4	-9.04	106.08	110.60
36	1	719	U	C6-N1-C2	9.03	126.42	121.00
36	5	214	G	O5'-P-OP2	-9.03	97.57	105.70
36	5	1005	G	C2-N3-C4	-9.03	107.38	111.90
36	5	3335	A	O5'-P-OP2	-9.03	97.57	105.70
1	2	341	A	O5'-P-OP1	-9.03	97.57	105.70
36	1	2421	U	N3-C2-O2	-9.03	115.88	122.20
36	1	272	G	N3-C4-C5	9.03	133.11	128.60
36	5	2290	C	C2-N1-C1'	-9.03	108.87	118.80
37	3	79	A	C2-N3-C4	-9.03	106.09	110.60
36	1	2701	U	N1-C2-N3	9.02	120.31	114.90
36	1	1306	G	O5'-P-OP2	-9.02	97.58	105.70
36	5	640	U	OP2-P-O3'	9.02	125.05	105.20
36	5	1076	C	C6-N1-C2	9.02	123.91	120.30
36	5	2335	G	C4-C5-N7	-9.02	107.19	110.80
36	1	1432	C	C4-C5-C6	9.02	121.91	117.40
1	6	1367	G	C5-C6-O6	-9.02	123.19	128.60
36	5	2963	C	N3-C2-O2	9.02	128.21	121.90
36	1	2291	A	C8-N9-C4	-9.02	102.19	105.80
36	5	2924	U	C2-N1-C1'	9.02	128.52	117.70
1	2	475	A	C8-N9-C4	9.01	109.41	105.80
36	1	1552	G	C6-C5-N7	-9.01	124.99	130.40
36	5	2728	G	C4-C5-C6	9.01	124.21	118.80
36	1	1932	A	C5-C6-N1	9.01	122.21	117.70
1	6	758	U	N3-C4-O4	-9.01	113.09	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1163	A	C8-N9-C4	-9.01	102.19	105.80
36	5	2426	U	C4-C5-C6	9.01	125.11	119.70
36	1	978	G	N1-C6-O6	9.01	125.31	119.90
36	1	2814	G	N3-C2-N2	-9.01	113.59	119.90
1	2	1737	G	N3-C4-C5	9.01	133.10	128.60
36	1	644	G	C4-C5-N7	-9.01	107.20	110.80
36	1	806	A	N7-C8-N9	-9.01	109.30	113.80
1	6	1565	C	C2-N3-C4	-9.01	115.40	119.90
36	1	2400	G	C6-C5-N7	-9.01	125.00	130.40
36	5	798	G	C6-C5-N7	-9.01	125.00	130.40
36	5	3127	A	N1-C2-N3	9.01	133.80	129.30
37	3	88	G	N3-C4-C5	-9.00	124.10	128.60
36	5	2819	A	O5'-P-OP2	-9.00	97.60	105.70
38	4	103	G	N3-C4-N9	9.00	131.40	126.00
36	5	1190	A	O4'-C1'-N9	-9.00	101.00	108.20
36	1	595	G	C4-N9-C1'	9.00	138.20	126.50
36	1	1305	U	N1-C2-O2	-9.00	116.50	122.80
36	1	2979	U	N3-C4-O4	-9.00	113.10	119.40
1	6	1025	A	C4-C5-C6	9.00	121.50	117.00
36	5	507	U	C6-N1-C2	-9.00	115.60	121.00
36	1	431	U	O5'-P-OP1	-8.99	97.61	105.70
36	5	2880	U	N1-C2-O2	-8.99	116.50	122.80
36	1	3006	A	C2-N3-C4	-8.99	106.10	110.60
1	6	1191	U	N1-C2-O2	8.99	129.09	122.80
36	5	2199	G	C5-C6-O6	-8.99	123.20	128.60
36	1	964	G	C6-C5-N7	-8.99	125.01	130.40
36	1	1058	U	N3-C2-O2	-8.99	115.91	122.20
36	1	2647	A	N1-C6-N6	8.99	123.99	118.60
1	6	1191	U	C2-N1-C1'	8.99	128.48	117.70
36	5	1101	G	N3-C4-C5	-8.99	124.11	128.60
36	5	2329	C	N3-C2-O2	8.99	128.19	121.90
36	5	2626	A	C2-N3-C4	-8.99	106.11	110.60
36	1	406	G	O4'-C1'-N9	8.98	115.39	108.20
36	1	943	U	C4-C5-C6	8.98	125.09	119.70
36	1	1552	G	N3-C4-N9	8.98	131.39	126.00
1	6	420	A	C5-N7-C8	-8.98	99.41	103.90
36	1	2918	G	C5-C6-N1	8.98	115.99	111.50
1	6	1787	C	N1-C2-O2	-8.98	113.51	118.90
36	5	648	C	C6-N1-C1'	8.98	131.58	120.80
36	5	2726	C	C6-N1-C2	-8.98	116.71	120.30
36	5	2853	A	N1-C6-N6	8.98	123.99	118.60
36	5	3308	C	C2-N1-C1'	8.98	128.68	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	881	C	N1-C2-O2	8.98	124.29	118.90
36	1	1349	G	C2-N3-C4	8.98	116.39	111.90
37	3	98	C	N1-C2-O2	-8.98	113.51	118.90
1	6	1129	U	N3-C4-C5	-8.98	109.21	114.60
36	5	963	G	C5-C6-N1	8.98	115.99	111.50
36	5	2248	C	C6-N1-C2	8.98	123.89	120.30
36	5	2358	A	N3-C4-C5	8.98	133.09	126.80
36	5	677	A	C4-C5-N7	8.98	115.19	110.70
36	1	793	C	N3-C4-C5	-8.97	118.31	121.90
36	5	2993	G	C4-C5-N7	8.97	114.39	110.80
36	1	377	A	N1-C6-N6	8.97	123.98	118.60
36	1	3092	C	C2-N3-C4	-8.97	115.41	119.90
36	5	2288	G	N3-C4-N9	8.97	131.38	126.00
36	1	3202	G	N1-C6-O6	8.97	125.28	119.90
1	2	75	U	N3-C2-O2	-8.97	115.92	122.20
37	7	29	C	C5-C6-N1	-8.97	116.51	121.00
1	2	582	U	N1-C2-O2	8.97	129.08	122.80
36	1	1887	A	N1-C6-N6	8.97	123.98	118.60
1	6	578	U	C5-C6-N1	-8.97	118.22	122.70
1	6	247	A	N1-C6-N6	8.97	123.98	118.60
36	5	3014	U	C5-C4-O4	-8.97	120.52	125.90
36	5	3246	G	C8-N9-C4	-8.97	102.81	106.40
38	8	80	A	C8-N9-C4	-8.97	102.21	105.80
36	1	2399	A	C8-N9-C4	8.96	109.39	105.80
1	6	1539	G	O5'-P-OP1	-8.96	97.63	105.70
36	5	430	U	C2-N3-C4	-8.96	121.62	127.00
36	5	2761	G	C5-C6-N1	8.97	115.98	111.50
36	1	1468	A	N1-C2-N3	8.96	133.78	129.30
36	5	2624	G	C5-C6-O6	-8.96	123.22	128.60
36	5	3025	C	N3-C4-N4	-8.96	111.73	118.00
36	1	1395	G	O5'-P-OP1	8.96	121.45	110.70
36	1	1929	G	C4-C5-N7	8.96	114.38	110.80
1	6	1603	U	C5-C4-O4	-8.96	120.52	125.90
36	1	2912	G	N1-C6-O6	-8.96	114.52	119.90
36	5	1368	U	N3-C4-O4	8.96	125.67	119.40
36	5	1793	C	N3-C4-N4	8.96	124.27	118.00
36	5	1907	C	C6-N1-C2	-8.96	116.72	120.30
36	1	2943	G	C6-C5-N7	-8.96	125.03	130.40
36	5	102	C	C6-N1-C2	8.96	123.88	120.30
36	5	402	A	C4-C5-C6	8.96	121.48	117.00
36	5	591	G	C4-C5-C6	8.96	124.17	118.80
36	5	1331	U	C5-C6-N1	-8.96	118.22	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	629	U	C6-N1-C2	8.96	126.37	121.00
36	1	1307	G	C8-N9-C4	-8.95	102.82	106.40
1	6	1158	C	O5'-P-OP2	-8.96	97.64	105.70
1	6	1664	C	C4-C5-C6	8.96	121.88	117.40
40	13	196	ARG	NE-CZ-NH2	-8.95	115.82	120.30
36	1	1949	G	O5'-P-OP1	-8.95	97.65	105.70
36	5	832	G	C5-C6-O6	8.95	133.97	128.60
36	5	1212	A	C4-C5-N7	8.95	115.17	110.70
36	5	1604	G	C4-C5-N7	-8.95	107.22	110.80
36	5	2852	C	N3-C4-C5	8.95	125.48	121.90
36	1	2872	A	C5-C6-N1	8.95	122.17	117.70
36	1	2283	G	N7-C8-N9	8.95	117.57	113.10
36	1	2842	U	O5'-P-OP1	-8.95	97.65	105.70
36	1	3001	C	C5-C6-N1	-8.95	116.53	121.00
36	5	581	U	C5-C6-N1	8.95	127.17	122.70
36	5	655	C	C6-N1-C2	-8.95	116.72	120.30
36	5	3088	G	N1-C6-O6	8.95	125.27	119.90
37	7	89	G	C6-C5-N7	-8.95	125.03	130.40
37	7	117	A	C2-N3-C4	-8.95	106.13	110.60
1	6	911	U	N3-C2-O2	-8.94	115.94	122.20
36	5	2395	G	C5-C6-O6	-8.94	123.23	128.60
36	1	828	A	C4-C5-N7	8.94	115.17	110.70
36	1	1392	G	N3-C4-C5	-8.94	124.13	128.60
36	5	2887	A	OP2-P-O3'	8.94	124.87	105.20
36	1	1392	G	C5-N7-C8	8.94	108.77	104.30
36	1	2875	U	C6-N1-C2	-8.94	115.64	121.00
36	5	1615	C	N3-C2-O2	-8.94	115.64	121.90
36	5	2335	G	O5'-P-OP1	-8.94	97.66	105.70
36	1	790	U	C4-C5-C6	8.94	125.06	119.70
36	5	2640	A	N1-C6-N6	8.94	123.96	118.60
36	1	52	A	N1-C6-N6	-8.94	113.24	118.60
1	6	618	U	O5'-P-OP1	-8.94	97.66	105.70
36	5	1323	G	N1-C2-N3	8.94	129.26	123.90
36	1	419	G	C8-N9-C4	8.93	109.97	106.40
36	1	1316	C	O5'-P-OP1	-8.93	97.66	105.70
36	1	2373	A	C5-N7-C8	-8.93	99.43	103.90
36	5	511	G	N1-C2-N3	8.93	129.26	123.90
36	5	1722	U	O5'-P-OP1	-8.93	97.66	105.70
36	5	2303	A	N1-C6-N6	8.93	123.96	118.60
36	5	3140	G	C4-N9-C1'	8.93	138.11	126.50
36	1	3379	C	C6-N1-C2	8.93	123.87	120.30
1	6	1131	A	N9-C4-C5	-8.93	102.23	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2180	G	O5'-P-OP2	-8.93	97.66	105.70
36	5	2394	G	N1-C6-O6	8.93	125.26	119.90
36	1	911	C	C2-N3-C4	-8.93	115.44	119.90
36	1	1139	G	N3-C4-C5	8.92	133.06	128.60
1	6	1730	A	C8-N9-C4	-8.92	102.23	105.80
36	5	916	G	N3-C4-C5	-8.92	124.14	128.60
36	5	1195	A	N1-C2-N3	8.92	133.76	129.30
36	5	2400	G	C4-C5-C6	-8.92	113.45	118.80
36	5	2708	C	N3-C4-N4	8.92	124.25	118.00
36	1	3093	C	C6-N1-C2	-8.92	116.73	120.30
36	1	36	C	N3-C2-O2	-8.92	115.66	121.90
36	1	357	A	N1-C2-N3	8.92	133.76	129.30
36	5	1137	C	N3-C4-N4	8.92	124.24	118.00
1	2	419	G	C5-C6-O6	-8.92	123.25	128.60
36	1	2364	G	C6-N1-C2	-8.92	119.75	125.10
36	5	974	G	C6-C5-N7	-8.92	125.05	130.40
36	5	1879	A	C8-N9-C4	-8.92	102.23	105.80
36	5	3026	G	N9-C4-C5	-8.92	101.83	105.40
36	1	3217	C	N3-C4-N4	8.92	124.24	118.00
1	6	805	U	O5'-P-OP1	-8.91	97.68	105.70
36	1	33	G	C2-N3-C4	-8.91	107.44	111.90
36	1	2393	G	C6-C5-N7	-8.91	125.05	130.40
37	3	84	A	C8-N9-C4	-8.91	102.23	105.80
38	4	28	C	C5-C6-N1	8.91	125.46	121.00
36	5	3187	A	O5'-P-OP2	-8.91	97.68	105.70
36	1	1129	A	N7-C8-N9	8.91	118.25	113.80
36	1	1294	A	O5'-P-OP2	-8.91	97.68	105.70
36	5	1604	G	N9-C4-C5	8.91	108.96	105.40
36	5	2888	U	N1-C2-N3	8.91	120.25	114.90
36	1	272	G	N3-C2-N2	-8.91	113.67	119.90
36	1	2296	A	C2-N3-C4	-8.91	106.15	110.60
36	1	1429	G	N7-C8-N9	-8.91	108.65	113.10
1	6	611	U	N3-C2-O2	-8.91	115.97	122.20
1	6	1440	C	N3-C4-C5	8.91	125.46	121.90
1	6	1644	C	O5'-P-OP2	-8.91	97.68	105.70
37	7	85	G	N7-C8-N9	8.91	117.55	113.10
36	5	1407	A	N7-C8-N9	-8.91	109.35	113.80
38	4	27	U	C5-C4-O4	-8.90	120.56	125.90
36	5	2629	U	C4-C5-C6	8.90	125.04	119.70
36	5	1101	G	N1-C2-N2	-8.90	108.19	116.20
36	1	596	C	C6-N1-C2	-8.90	116.74	120.30
36	1	1116	G	OP2-P-O3'	8.90	124.78	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1622	G	C4-C5-N7	8.90	114.36	110.80
1	2	1594	G	O5'-P-OP1	-8.90	97.69	105.70
36	1	35	A	C5-N7-C8	-8.90	99.45	103.90
36	1	427	C	C6-N1-C2	-8.90	116.74	120.30
38	4	53	A	C5-N7-C8	8.90	108.35	103.90
38	8	4	C	N1-C2-O2	-8.90	113.56	118.90
37	7	93	C	N3-C2-O2	-8.89	115.67	121.90
36	1	101	G	C2-N3-C4	-8.89	107.45	111.90
46	19	168	ARG	NE-CZ-NH2	8.89	124.75	120.30
36	1	356	C	C5-C4-N4	-8.89	113.98	120.20
36	1	2387	A	C5-C6-N1	8.89	122.14	117.70
36	5	787	G	C5-C6-N1	-8.89	107.06	111.50
36	1	1498	A	C5-C6-N1	8.89	122.14	117.70
36	5	2386	A	C4-C5-N7	8.89	115.14	110.70
36	1	428	A	C5-C6-N6	-8.88	116.59	123.70
36	1	2159	U	C2-N1-C1'	8.88	128.36	117.70
36	1	3182	G	N3-C4-N9	8.89	131.33	126.00
1	2	331	A	N9-C4-C5	8.88	109.35	105.80
36	1	883	A	C6-N1-C2	-8.88	113.27	118.60
36	1	2937	G	N7-C8-N9	-8.88	108.66	113.10
36	5	371	G	N3-C4-N9	-8.88	120.67	126.00
36	1	507	U	N1-C2-O2	8.88	129.01	122.80
36	1	622	A	C4-C5-N7	8.88	115.14	110.70
36	1	3206	C	N1-C2-O2	-8.88	113.57	118.90
36	5	1550	C	C5-C6-N1	8.88	125.44	121.00
36	5	667	C	C5-C4-N4	8.88	126.41	120.20
36	1	1604	G	N3-C4-C5	-8.88	124.16	128.60
36	5	1127	G	C8-N9-C4	-8.88	102.85	106.40
36	5	1913	A	N1-C6-N6	8.88	123.93	118.60
36	1	3377	G	N1-C6-O6	-8.87	114.58	119.90
36	5	97	U	C5-C4-O4	-8.87	120.58	125.90
1	2	1200	G	N1-C6-O6	8.87	125.22	119.90
36	5	3393	U	C2-N1-C1'	-8.87	107.05	117.70
36	5	1520	G	C8-N9-C1'	-8.87	115.47	127.00
36	1	793	C	C4-C5-C6	8.87	121.83	117.40
1	6	1130	G	C5-C6-N1	8.87	115.93	111.50
36	5	974	G	N3-C4-N9	8.87	131.32	126.00
36	5	1128	U	N1-C2-O2	-8.87	116.59	122.80
36	1	2847	A	C2-N3-C4	-8.86	106.17	110.60
36	1	3135	U	C5-C6-N1	-8.87	118.27	122.70
36	5	3271	G	N1-C6-O6	8.87	125.22	119.90
1	6	332	U	N3-C2-O2	-8.86	116.00	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	942	U	C6-N1-C2	-8.86	115.68	121.00
36	1	2637	A	N9-C4-C5	8.86	109.34	105.80
36	1	2831	G	N3-C2-N2	-8.86	113.70	119.90
36	1	2939	G	N9-C4-C5	8.86	108.94	105.40
36	5	2837	A	C6-N1-C2	-8.86	113.28	118.60
1	6	209	U	N3-C4-O4	8.86	125.60	119.40
1	6	1418	G	N1-C6-O6	8.86	125.22	119.90
1	6	1634	C	N3-C2-O2	-8.86	115.70	121.90
36	5	2980	U	N3-C4-O4	-8.86	113.20	119.40
1	6	1187	U	C5-C6-N1	8.86	127.13	122.70
36	5	857	G	N1-C6-O6	8.86	125.21	119.90
1	2	577	G	C4-C5-N7	8.85	114.34	110.80
36	1	61	A	N7-C8-N9	8.85	118.23	113.80
36	1	1172	G	OP1-P-O3'	8.85	124.68	105.20
36	1	2629	U	N1-C2-O2	-8.85	116.60	122.80
36	1	1366	A	C2-N3-C4	-8.85	106.17	110.60
36	1	1414	G	C5-C6-O6	-8.85	123.29	128.60
36	1	2689	A	O5'-P-OP1	-8.85	97.73	105.70
37	7	48	U	C5-C4-O4	-8.85	120.59	125.90
36	1	344	A	C8-N9-C4	-8.85	102.26	105.80
1	6	1668	G	C2-N3-C4	-8.85	107.47	111.90
1	2	1146	G	C4-N9-C1'	8.85	138.00	126.50
36	1	2983	C	C5-C6-N1	-8.85	116.58	121.00
36	5	1905	G	N1-C6-O6	-8.85	114.59	119.90
36	5	2341	A	O5'-P-OP1	-8.85	97.74	105.70
1	2	1655	A	C4-C5-C6	-8.84	112.58	117.00
36	1	1528	G	N3-C4-C5	-8.84	124.18	128.60
36	5	1017	C	C2-N1-C1'	8.84	128.53	118.80
36	1	826	G	N1-C6-O6	8.84	125.20	119.90
36	1	3075	G	C5-C6-N1	-8.84	107.08	111.50
36	5	1148	G	N1-C2-N3	8.84	129.21	123.90
36	5	2306	C	O5'-P-OP2	-8.84	97.74	105.70
36	5	2726	C	O5'-P-OP1	8.84	121.31	110.70
36	1	407	A	C2-N3-C4	8.84	115.02	110.60
36	5	608	A	C5-C6-N6	-8.84	116.63	123.70
36	5	1151	U	C2-N1-C1'	8.84	128.31	117.70
36	5	2358	A	C2-N3-C4	-8.84	106.18	110.60
1	2	334	G	C4-C5-N7	-8.84	107.27	110.80
36	5	1165	A	C5-N7-C8	-8.84	99.48	103.90
36	1	1929	G	C5-C6-O6	-8.84	123.30	128.60
36	5	827	A	N9-C4-C5	8.84	109.33	105.80
36	5	3015	G	N1-C6-O6	8.84	125.20	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	17	C	N1-C2-O2	-8.83	113.60	118.90
1	2	1272	U	N3-C2-O2	-8.83	116.02	122.20
36	1	52	A	C5-C6-N6	8.83	130.77	123.70
36	5	1172	G	C6-C5-N7	-8.83	125.10	130.40
37	7	93	C	C2-N1-C1'	8.83	128.52	118.80
36	1	934	G	C8-N9-C4	-8.83	102.87	106.40
1	6	1295	G	N1-C6-O6	8.83	125.20	119.90
36	5	364	G	O5'-P-OP1	-8.83	97.75	105.70
36	1	1414	G	C2-N3-C4	-8.83	107.49	111.90
36	5	1582	C	C5-C6-N1	8.83	125.41	121.00
36	5	2924	U	C5-C4-O4	-8.83	120.60	125.90
1	2	21	U	N3-C4-O4	8.82	125.58	119.40
36	5	2375	G	N9-C4-C5	8.82	108.93	105.40
36	1	1201	C	C5-C4-N4	-8.82	114.02	120.20
36	1	2394	G	C5-N7-C8	8.82	108.71	104.30
36	5	2407	C	C5-C4-N4	-8.82	114.02	120.20
36	1	642	U	C5-C6-N1	8.82	127.11	122.70
36	1	2296	A	N1-C6-N6	8.82	123.89	118.60
36	5	1155	C	N3-C2-O2	8.82	128.07	121.90
36	5	791	A	N1-C6-N6	8.82	123.89	118.60
36	5	2888	U	C2-N3-C4	-8.82	121.71	127.00
36	5	3245	A	C6-N1-C2	8.82	123.89	118.60
36	1	1522	U	N3-C2-O2	-8.82	116.03	122.20
36	1	2636	A	O5'-P-OP2	8.82	121.28	110.70
36	5	1047	A	N1-C2-N3	8.82	133.71	129.30
36	5	2946	A	N1-C2-N3	8.82	133.71	129.30
1	2	820	U	C5-C6-N1	8.81	127.11	122.70
36	1	193	C	N3-C4-C5	-8.81	118.38	121.90
36	1	290	G	N1-C6-O6	8.81	125.19	119.90
36	1	1386	A	C8-N9-C4	-8.81	102.28	105.80
36	1	2714	G	N3-C4-N9	-8.81	120.71	126.00
37	3	88	G	C6-N1-C2	-8.81	119.81	125.10
36	5	2825	C	N3-C4-N4	8.81	124.17	118.00
36	1	2363	A	O5'-P-OP2	8.81	121.28	110.70
1	6	322	G	C8-N9-C4	-8.81	102.88	106.40
36	5	360	G	C4-C5-C6	8.81	124.09	118.80
36	5	1046	A	N1-C2-N3	8.81	133.71	129.30
36	5	1947	G	C5-C6-N1	8.81	115.91	111.50
38	8	44	A	N1-C6-N6	8.81	123.89	118.60
36	1	971	G	N3-C4-C5	-8.81	124.20	128.60
36	5	2346	C	N3-C2-O2	8.81	128.07	121.90
36	1	1453	A	N1-C2-N3	8.81	133.70	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2904	U	N3-C4-C5	8.81	119.88	114.60
38	8	15	G	C4-C5-N7	-8.81	107.28	110.80
36	1	507	U	N3-C2-O2	-8.80	116.04	122.20
36	5	1116	G	OP1-P-O3'	-8.81	85.83	105.20
36	5	2814	G	C5-C6-O6	-8.80	123.32	128.60
37	7	80	G	C8-N9-C4	8.80	109.92	106.40
37	3	98	C	N1-C2-N3	8.80	125.36	119.20
36	5	3208	G	N1-C2-N3	8.80	129.18	123.90
1	2	573	C	C6-N1-C2	-8.80	116.78	120.30
36	1	596	C	C4-C5-C6	8.80	121.80	117.40
36	5	216	G	C5-C6-O6	-8.80	123.32	128.60
36	5	3373	U	N1-C2-N3	8.80	120.18	114.90
1	6	315	A	C8-N9-C4	8.80	109.32	105.80
36	5	33	G	N1-C6-O6	-8.80	114.62	119.90
36	5	922	U	C5-C6-N1	-8.80	118.30	122.70
36	5	1114	U	C6-N1-C2	-8.80	115.72	121.00
36	5	2287	C	C4-C5-C6	8.80	121.80	117.40
1	2	1284	C	N1-C2-O2	-8.80	113.62	118.90
36	1	226	C	N1-C2-O2	-8.79	113.62	118.90
36	1	408	A	C6-N1-C2	-8.79	113.32	118.60
36	1	3083	G	C8-N9-C4	8.79	109.92	106.40
36	5	2132	C	N3-C2-O2	-8.79	115.74	121.90
36	5	3047	U	O5'-P-OP1	-8.79	97.78	105.70
36	5	3203	U	C5-C4-O4	8.79	131.18	125.90
1	2	144	U	C6-N1-C1'	8.79	133.51	121.20
36	1	960	U	C5-C6-N1	-8.79	118.30	122.70
36	5	2811	A	C5-C6-N1	8.79	122.09	117.70
36	5	3053	G	O5'-P-OP1	-8.79	97.79	105.70
36	5	3129	A	C8-N9-C4	-8.79	102.28	105.80
38	8	7	U	N1-C2-O2	-8.79	116.64	122.80
1	2	144	U	C5-C4-O4	8.79	131.17	125.90
37	7	27	A	N1-C6-N6	-8.79	113.33	118.60
36	1	414	U	C2-N3-C4	-8.79	121.73	127.00
36	1	439	C	C5-C6-N1	8.79	125.39	121.00
36	1	3050	U	N1-C2-N3	8.79	120.17	114.90
1	6	1414	U	N3-C2-O2	-8.79	116.05	122.20
1	6	1428	G	O5'-P-OP1	-8.79	97.79	105.70
36	5	957	C	C2-N1-C1'	8.79	128.47	118.80
36	5	2139	A	C5-C6-N6	8.79	130.73	123.70
36	5	2697	A	C5-C6-N6	-8.79	116.67	123.70
36	5	2830	G	C5-C6-O6	8.79	133.87	128.60
36	1	1116	G	N3-C2-N2	8.79	126.05	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2678	A	N1-C6-N6	-8.79	113.33	118.60
36	1	2797	C	N3-C4-C5	-8.79	118.39	121.90
36	5	437	G	N3-C4-N9	8.79	131.27	126.00
36	5	795	G	O5'-P-OP2	-8.79	97.79	105.70
38	8	1	A	C5-N7-C8	8.79	108.29	103.90
36	5	2305	G	N1-C2-N3	8.78	129.17	123.90
36	1	2351	U	N3-C2-O2	-8.78	116.05	122.20
36	5	2808	A	N7-C8-N9	8.78	118.19	113.80
36	5	3390	G	O5'-P-OP1	-8.78	97.80	105.70
36	5	884	A	C8-N9-C4	8.78	109.31	105.80
36	5	3041	U	C6-N1-C2	8.78	126.27	121.00
36	1	648	C	C2-N3-C4	-8.78	115.51	119.90
1	6	1700	C	C2-N1-C1'	8.78	128.45	118.80
36	5	1196	C	C4-C5-C6	8.78	121.79	117.40
36	5	2199	G	C5-C6-N1	-8.78	107.11	111.50
36	5	2373	A	N1-C6-N6	-8.78	113.33	118.60
36	5	2620	G	C2-N3-C4	-8.78	107.51	111.90
36	5	3005	A	C4-C5-C6	8.78	121.39	117.00
1	2	610	G	C8-N9-C1'	-8.77	115.59	127.00
1	2	1114	G	N3-C4-N9	8.77	131.26	126.00
1	2	334	G	N7-C8-N9	-8.77	108.71	113.10
36	1	828	A	N7-C8-N9	8.77	118.19	113.80
36	1	1187	C	C6-N1-C2	8.77	123.81	120.30
36	1	1209	G	N3-C4-N9	8.77	131.26	126.00
36	1	1433	A	C8-N9-C4	-8.77	102.29	105.80
36	5	2932	U	C2-N3-C4	-8.77	121.74	127.00
36	1	962	A	N1-C2-N3	8.77	133.69	129.30
38	4	3	A	C5-C6-N1	8.77	122.08	117.70
36	1	2289	U	C4-C5-C6	8.77	124.96	119.70
36	1	187	A	N9-C4-C5	8.77	109.31	105.80
36	1	1376	C	O5'-P-OP2	-8.77	97.81	105.70
36	5	286	U	C6-N1-C2	-8.77	115.74	121.00
36	5	990	U	N1-C2-O2	8.77	128.94	122.80
36	5	1217	A	O5'-P-OP1	8.77	121.22	110.70
36	5	2306	C	C2-N1-C1'	8.77	128.44	118.80
36	1	3245	A	C2-N3-C4	-8.76	106.22	110.60
36	5	1364	C	C6-N1-C2	-8.76	116.79	120.30
36	1	964	G	C5-N7-C8	-8.76	99.92	104.30
36	1	2642	A	C8-N9-C4	8.76	109.31	105.80
36	5	2426	U	C5-C4-O4	8.76	131.16	125.90
36	1	635	G	C6-C5-N7	-8.76	125.14	130.40
36	5	1111	U	C5-C6-N1	-8.76	118.32	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	35	A	C6-C5-N7	-8.76	126.17	132.30
36	1	2985	C	C6-N1-C2	-8.76	116.80	120.30
36	1	1880	U	C2-N3-C4	-8.76	121.75	127.00
36	1	2179	C	N3-C2-O2	-8.76	115.77	121.90
36	5	2743	A	N1-C2-N3	8.76	133.68	129.30
36	5	3039	C	N3-C4-N4	8.76	124.13	118.00
36	5	3328	G	C4-C5-N7	8.76	114.30	110.80
36	5	3362	A	C5-N7-C8	-8.76	99.52	103.90
36	1	400	G	N9-C4-C5	8.75	108.90	105.40
36	5	528	U	C6-N1-C2	-8.75	115.75	121.00
36	5	1170	A	C2-N3-C4	-8.75	106.22	110.60
1	6	1498	G	C8-N9-C1'	-8.75	115.62	127.00
36	5	3189	G	C8-N9-C4	8.75	109.90	106.40
37	7	49	G	C4-C5-C6	8.75	124.05	118.80
38	8	111	A	C8-N9-C4	8.75	109.30	105.80
1	2	507	U	N3-C2-O2	-8.75	116.07	122.20
36	1	220	G	C6-C5-N7	-8.75	125.15	130.40
36	1	1380	G	C5-C6-N1	-8.75	107.12	111.50
36	1	2827	U	O5'-P-OP2	-8.75	97.83	105.70
41	L4	182	LEU	CA-CB-CG	8.75	135.42	115.30
1	6	321	C	O5'-P-OP1	-8.75	97.83	105.70
36	5	2678	A	N1-C6-N6	-8.75	113.35	118.60
38	8	41	A	N1-C2-N3	8.75	133.67	129.30
36	1	1177	G	C5-C6-O6	-8.74	123.35	128.60
36	1	57	A	N1-C2-N3	8.74	133.67	129.30
36	1	780	A	N1-C2-N3	8.74	133.67	129.30
36	1	1178	G	C8-N9-C1'	-8.74	115.63	127.00
36	5	2700	G	C6-N1-C2	-8.74	119.85	125.10
36	5	3200	G	C4-C5-C6	8.74	124.05	118.80
36	1	3362	A	C5-N7-C8	-8.74	99.53	103.90
36	5	2307	G	O5'-P-OP2	-8.74	97.83	105.70
36	1	2918	G	N3-C4-C5	-8.74	124.23	128.60
36	1	23	A	N3-C4-C5	-8.74	120.68	126.80
36	1	397	A	C5-C6-N1	8.74	122.07	117.70
36	1	2283	G	C8-N9-C4	-8.74	102.91	106.40
36	5	3218	A	N1-C6-N6	8.74	123.84	118.60
36	1	640	U	N3-C4-C5	-8.73	109.36	114.60
36	1	971	G	N3-C4-N9	8.73	131.24	126.00
1	6	29	U	N1-C2-N3	8.73	120.14	114.90
36	1	3362	A	N7-C8-N9	8.73	118.17	113.80
36	5	630	A	N7-C8-N9	-8.73	109.43	113.80
38	8	136	G	C8-N9-C4	8.73	109.89	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2821	C	N3-C2-O2	-8.73	115.79	121.90
36	5	3140	G	N3-C4-N9	8.73	131.24	126.00
1	2	3	U	O5'-P-OP1	-8.73	97.85	105.70
1	6	142	G	C5-C6-O6	8.73	133.84	128.60
36	5	249	U	O4'-C1'-N1	8.73	115.18	108.20
36	5	2824	G	N9-C4-C5	-8.72	101.91	105.40
36	1	3096	C	N3-C4-C5	-8.72	118.41	121.90
36	1	107	A	C4-C5-N7	8.72	115.06	110.70
36	1	3172	A	C4-C5-C6	8.72	121.36	117.00
36	5	360	G	C5-C6-N1	-8.72	107.14	111.50
36	5	1165	A	N1-C2-N3	8.72	133.66	129.30
36	5	2662	G	N1-C2-N3	8.72	129.13	123.90
36	1	1134	G	N1-C2-N3	8.72	129.13	123.90
36	1	1431	G	N1-C6-O6	-8.72	114.67	119.90
38	4	111	A	C8-N9-C4	8.72	109.29	105.80
1	6	431	C	N3-C2-O2	8.72	128.00	121.90
36	5	96	G	C5-C6-N1	-8.71	107.14	111.50
36	5	1178	G	C5-C6-O6	8.71	133.83	128.60
36	5	1685	C	C6-N1-C2	8.71	123.79	120.30
36	5	2122	G	N1-C6-O6	8.71	125.13	119.90
1	6	1189	A	C8-N9-C4	8.71	109.28	105.80
38	8	4	C	N3-C4-C5	-8.71	118.42	121.90
36	5	2878	G	N3-C4-C5	-8.71	124.24	128.60
1	2	317	C	C6-N1-C2	-8.71	116.82	120.30
36	1	22	G	C2-N3-C4	-8.71	107.55	111.90
1	6	553	G	N1-C6-O6	8.71	125.12	119.90
36	5	1182	A	OP1-P-OP2	8.71	132.66	119.60
36	5	3010	U	N3-C4-O4	-8.71	113.30	119.40
36	5	1149	G	C5-C6-N1	-8.71	107.15	111.50
36	5	2937	G	N9-C4-C5	-8.70	101.92	105.40
36	5	3278	C	C2-N1-C1'	-8.71	109.22	118.80
36	1	718	G	N1-C6-O6	8.70	125.12	119.90
36	5	3144	G	C4-C5-C6	8.70	124.02	118.80
36	5	3343	G	C8-N9-C1'	-8.70	115.69	127.00
36	1	640	U	N1-C2-O2	-8.70	116.71	122.80
36	5	664	U	N3-C4-C5	-8.70	109.38	114.60
36	5	863	C	C6-N1-C2	8.70	123.78	120.30
36	1	880	G	C4-N9-C1'	-8.70	115.19	126.50
36	1	276	U	N3-C4-O4	8.70	125.49	119.40
36	1	674	G	C5-C6-N1	-8.70	107.15	111.50
36	1	3390	G	C4-N9-C1'	8.70	137.81	126.50
36	1	2353	G	C5-C6-O6	-8.69	123.38	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	808	A	C5-C6-N1	8.70	122.05	117.70
1	6	43	A	C8-N9-C4	8.69	109.28	105.80
36	5	856	G	C4-N9-C1'	8.69	137.80	126.50
36	5	1127	G	C4-C5-N7	-8.69	107.32	110.80
36	5	2126	A	C5-C6-N1	8.69	122.05	117.70
37	7	13	A	N1-C6-N6	8.69	123.81	118.60
36	1	2599	U	O5'-P-OP1	-8.69	97.88	105.70
1	6	1535	U	O5'-P-OP2	-8.69	97.88	105.70
36	5	155	G	N3-C4-N9	8.69	131.21	126.00
36	5	3199	G	C5-C6-N1	8.69	115.84	111.50
36	1	861	C	C6-N1-C2	-8.69	116.83	120.30
36	5	3036	G	O5'-P-OP2	-8.69	97.88	105.70
36	5	3383	G	N1-C6-O6	8.69	125.11	119.90
36	5	300	G	N1-C6-O6	-8.69	114.69	119.90
36	5	1149	G	O5'-P-OP2	-8.69	97.88	105.70
36	5	1202	A	C4-C5-C6	8.69	121.34	117.00
1	2	1291	G	C5-N7-C8	-8.68	99.96	104.30
36	5	1342	C	O5'-P-OP1	-8.68	97.88	105.70
36	1	102	C	O5'-P-OP1	8.68	121.12	110.70
36	5	900	G	C8-N9-C4	-8.68	102.93	106.40
36	5	1127	G	C4-N9-C1'	8.68	137.79	126.50
1	6	972	G	N3-C4-N9	8.68	131.21	126.00
36	5	2295	A	O5'-P-OP2	-8.68	97.89	105.70
36	5	3115	C	C6-N1-C1'	8.68	131.22	120.80
36	5	804	C	N3-C4-N4	8.68	124.07	118.00
36	5	2157	G	C8-N9-C4	8.68	109.87	106.40
36	5	2895	G	C6-N1-C2	-8.68	119.89	125.10
36	1	354	U	N3-C2-O2	-8.68	116.13	122.20
1	6	1029	U	C5-C4-O4	8.68	131.11	125.90
36	1	3245	A	N1-C2-N3	8.68	133.64	129.30
36	5	2428	U	N3-C2-O2	8.68	128.27	122.20
36	5	3115	C	N3-C2-O2	8.68	127.97	121.90
1	2	1073	G	C8-N9-C4	8.67	109.87	106.40
38	4	18	U	C6-N1-C2	-8.67	115.80	121.00
36	1	2195	C	O5'-P-OP1	-8.67	97.89	105.70
36	5	1337	A	N1-C6-N6	-8.67	113.40	118.60
36	5	2244	A	N7-C8-N9	-8.67	109.46	113.80
1	6	54	C	N3-C2-O2	-8.67	115.83	121.90
1	2	1146	G	C6-C5-N7	-8.67	125.20	130.40
36	1	413	U	C6-N1-C2	8.67	126.20	121.00
1	6	1474	G	C8-N9-C1'	-8.67	115.73	127.00
36	5	1173	U	N1-C2-N3	8.67	120.10	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1879	A	C5-N7-C8	-8.67	99.56	103.90
36	5	3193	C	O5'-P-OP1	-8.67	97.90	105.70
36	1	916	G	C5-C6-N1	8.67	115.83	111.50
36	1	916	G	N1-C6-O6	-8.67	114.70	119.90
36	1	2631	U	N1-C2-O2	8.67	128.87	122.80
36	1	1103	A	C2-N3-C4	8.67	114.93	110.60
36	1	1487	G	N7-C8-N9	8.67	117.43	113.10
1	6	1187	U	C6-N1-C2	-8.67	115.80	121.00
36	5	2634	U	N3-C4-C5	8.67	119.80	114.60
1	2	1190	C	C6-N1-C2	8.66	123.77	120.30
1	2	1768	G	C8-N9-C4	-8.66	102.93	106.40
1	2	353	A	C6-C5-N7	-8.66	126.24	132.30
36	1	2627	C	C2-N3-C4	-8.66	115.57	119.90
36	5	289	A	C5-C6-N6	-8.66	116.77	123.70
36	5	1130	A	N1-C2-N3	-8.66	124.97	129.30
36	1	676	G	C4-N9-C1'	8.66	137.76	126.50
36	1	2863	G	O5'-P-OP2	-8.66	97.91	105.70
36	5	595	G	N1-C2-N2	-8.66	108.41	116.20
36	5	2865	U	N1-C2-O2	8.66	128.86	122.80
36	1	205	C	C6-N1-C2	8.66	123.76	120.30
36	1	693	A	C6-C5-N7	-8.66	126.24	132.30
1	6	326	G	C6-C5-N7	-8.66	125.20	130.40
36	5	592	A	C8-N9-C4	8.66	109.26	105.80
36	5	594	U	C6-N1-C2	-8.66	115.81	121.00
36	5	1095	U	N3-C2-O2	-8.66	116.14	122.20
36	5	1196	C	N1-C2-O2	8.66	124.09	118.90
36	1	499	G	O5'-P-OP2	-8.65	97.91	105.70
36	1	1930	A	N9-C4-C5	-8.65	102.34	105.80
36	1	3045	G	N1-C2-N3	-8.65	118.71	123.90
1	6	41	A	N9-C4-C5	8.65	109.26	105.80
36	5	583	G	O5'-P-OP1	-8.65	97.91	105.70
36	5	1152	G	N1-C2-N2	8.65	123.99	116.20
38	8	8	C	C6-N1-C2	-8.65	116.84	120.30
36	1	655	C	C2-N1-C1'	8.65	128.32	118.80
36	1	2601	A	C6-N1-C2	-8.65	113.41	118.60
36	5	2715	A	C5-C6-N6	8.65	130.62	123.70
36	5	1192	C	N1-C2-O2	8.65	124.09	118.90
36	5	2940	A	C5-N7-C8	-8.65	99.58	103.90
36	5	3040	A	C8-N9-C4	8.65	109.26	105.80
36	5	3361	G	N1-C6-O6	8.65	125.09	119.90
1	6	621	A	C6-C5-N7	8.65	138.35	132.30
1	6	1208	A	C8-N9-C4	-8.65	102.34	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2246	G	C5-N7-C8	-8.65	99.98	104.30
36	5	2689	A	C5-C6-N6	8.65	130.62	123.70
36	5	2789	U	N1-C2-O2	-8.64	116.75	122.80
36	5	2871	G	C4-C5-N7	8.64	114.26	110.80
36	1	2284	C	N1-C2-O2	8.64	124.09	118.90
36	5	774	G	C4-C5-N7	8.64	114.26	110.80
36	5	1910	A	C5-C6-N6	-8.64	116.79	123.70
37	7	104	A	OP1-P-O3'	-8.64	86.18	105.20
36	1	2314	U	N3-C4-O4	8.64	125.45	119.40
36	1	3085	G	C5-C6-O6	-8.64	123.42	128.60
36	1	3201	C	C6-N1-C2	-8.64	116.84	120.30
1	6	383	G	C6-C5-N7	-8.64	125.22	130.40
36	5	424	G	C5-C6-N1	8.64	115.82	111.50
1	6	1629	G	N3-C4-C5	-8.64	124.28	128.60
36	5	1851	G	C5-N7-C8	-8.64	99.98	104.30
36	1	1116	G	C4-N9-C1'	8.64	137.73	126.50
36	1	2816	G	N1-C2-N2	-8.64	108.43	116.20
1	6	351	C	C6-N1-C2	8.64	123.75	120.30
36	5	96	G	C8-N9-C4	8.64	109.86	106.40
36	5	2285	C	C5-C6-N1	-8.64	116.68	121.00
36	5	2945	G	N1-C6-O6	-8.64	114.72	119.90
36	1	644	G	N1-C2-N3	8.63	129.08	123.90
36	1	1100	U	N1-C2-N3	8.64	120.08	114.90
36	1	1483	G	C5-C6-N1	8.63	115.82	111.50
1	6	1474	G	C4-N9-C1'	8.63	137.73	126.50
36	5	1694	U	N3-C2-O2	8.63	128.24	122.20
1	6	788	A	C8-N9-C4	8.63	109.25	105.80
38	8	21	C	N3-C4-C5	8.63	125.35	121.90
36	1	3001	C	C2-N3-C4	-8.63	115.58	119.90
36	5	2278	C	N3-C4-N4	8.63	124.04	118.00
36	5	3043	C	C2-N3-C4	-8.63	115.58	119.90
36	1	2764	C	C2-N3-C4	8.63	124.21	119.90
36	1	3049	A	N7-C8-N9	-8.63	109.49	113.80
36	5	345	G	N9-C4-C5	-8.63	101.95	105.40
36	5	2895	G	N1-C2-N2	-8.63	108.43	116.20
36	5	384	A	N1-C6-N6	8.63	123.78	118.60
36	1	41	G	C5-C6-N1	8.63	115.81	111.50
36	1	699	A	N3-C4-C5	8.63	132.84	126.80
36	1	2385	G	N9-C4-C5	-8.63	101.95	105.40
1	6	1731	A	O5'-P-OP1	8.63	121.05	110.70
1	2	1300	A	N1-C6-N6	-8.62	113.43	118.60
1	6	1729	C	C2-N3-C4	-8.62	115.59	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1310	G	N3-C4-N9	8.62	131.17	126.00
36	5	1902	G	N1-C2-N3	8.62	129.07	123.90
36	5	3185	U	C4-C5-C6	8.62	124.87	119.70
1	2	15	U	N3-C2-O2	-8.62	116.17	122.20
36	5	1181	U	C4-C5-C6	8.62	124.87	119.70
1	2	507	U	N1-C2-O2	8.62	128.83	122.80
1	6	1491	U	P-O3'-C3'	8.62	130.04	119.70
1	6	1630	U	N3-C4-O4	8.62	125.43	119.40
36	5	1178	G	N9-C4-C5	8.62	108.85	105.40
36	5	1514	G	N9-C4-C5	-8.62	101.95	105.40
36	5	2379	U	N3-C4-O4	-8.62	113.37	119.40
36	1	3374	U	C5-C6-N1	-8.62	118.39	122.70
36	5	2693	C	C2-N3-C4	-8.62	115.59	119.90
36	5	2942	C	N3-C2-O2	-8.62	115.87	121.90
36	1	1395	G	O5'-P-OP2	-8.61	97.95	105.70
36	1	2198	A	C2-N3-C4	-8.61	106.29	110.60
36	1	2386	A	O5'-P-OP1	-8.61	97.95	105.70
1	6	1478	G	C4-N9-C1'	8.61	137.70	126.50
36	5	568	G	C4-C5-N7	8.61	114.24	110.80
36	5	2812	C	O5'-P-OP2	8.61	121.03	110.70
36	5	1060	U	N3-C4-O4	-8.61	113.37	119.40
36	5	718	G	C6-C5-N7	-8.61	125.23	130.40
36	5	996	A	O5'-P-OP2	-8.61	97.95	105.70
36	5	1124	U	N3-C4-O4	-8.61	113.37	119.40
36	1	639	G	C5-N7-C8	-8.61	100.00	104.30
36	1	865	U	C5-C6-N1	-8.61	118.40	122.70
36	1	2310	U	O5'-P-OP1	-8.61	97.95	105.70
36	1	1146	C	N1-C2-N3	-8.61	113.18	119.20
1	6	856	A	N1-C6-N6	8.61	123.76	118.60
1	6	1000	C	C6-N1-C2	-8.61	116.86	120.30
36	5	1376	C	N3-C4-N4	8.61	124.02	118.00
36	5	2624	G	N1-C6-O6	8.61	125.06	119.90
36	1	1043	C	N3-C4-C5	8.60	125.34	121.90
1	6	1354	G	C8-N9-C4	-8.60	102.96	106.40
37	3	74	C	C6-N1-C2	8.60	123.74	120.30
36	5	672	A	C5-C6-N1	8.60	122.00	117.70
36	5	851	C	N3-C4-C5	8.60	125.34	121.90
1	2	1761	U	N1-C2-N3	8.60	120.06	114.90
36	1	887	G	N3-C4-N9	8.60	131.16	126.00
36	1	2629	U	N3-C4-C5	-8.60	109.44	114.60
36	1	2887	A	N7-C8-N9	8.60	118.10	113.80
38	4	103	G	N3-C4-C5	-8.60	124.30	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	344	A	N7-C8-N9	8.60	118.10	113.80
36	5	961	C	O5'-P-OP2	8.60	121.02	110.70
36	5	2244	A	N1-C6-N6	-8.60	113.44	118.60
36	1	1061	A	C5-N7-C8	8.60	108.20	103.90
36	1	1420	C	C2-N3-C4	-8.60	115.60	119.90
36	1	3266	G	C8-N9-C4	-8.60	102.96	106.40
36	5	213	A	C6-N1-C2	-8.60	113.44	118.60
37	7	109	G	N3-C4-C5	8.60	132.90	128.60
1	6	16	G	C4-C5-N7	8.59	114.24	110.80
37	7	73	C	C6-N1-C2	-8.59	116.86	120.30
36	1	691	A	C5-N7-C8	-8.59	99.60	103.90
36	1	2913	C	N3-C4-C5	-8.59	118.46	121.90
1	6	1086	A	N9-C4-C5	8.59	109.23	105.80
36	5	330	G	N1-C6-O6	8.59	125.05	119.90
36	5	1181	U	C5-C4-O4	8.59	131.06	125.90
36	1	938	C	C2-N1-C1'	8.59	128.24	118.80
1	6	1264	G	N1-C6-O6	8.59	125.05	119.90
36	1	1905	G	C8-N9-C1'	8.58	138.16	127.00
36	1	2877	G	O5'-P-OP2	-8.58	97.97	105.70
36	1	1151	U	C6-N1-C2	-8.58	115.85	121.00
36	1	2614	G	N3-C4-C5	-8.58	124.31	128.60
36	1	2904	U	N3-C4-O4	-8.58	113.39	119.40
1	6	1623	C	C5-C6-N1	8.58	125.29	121.00
36	5	301	G	N1-C6-O6	8.58	125.05	119.90
36	1	73	C	N1-C2-O2	-8.58	113.75	118.90
36	1	641	C	N1-C2-N3	-8.58	113.19	119.20
36	5	256	G	N7-C8-N9	8.58	117.39	113.10
36	5	2684	C	N3-C4-C5	-8.58	118.47	121.90
36	5	3041	U	C5-C6-N1	-8.58	118.41	122.70
1	6	1282	U	N1-C2-N3	8.58	120.05	114.90
36	5	71	A	N1-C6-N6	-8.58	113.45	118.60
36	5	2943	G	N1-C2-N3	8.58	129.05	123.90
36	5	3143	C	N3-C4-N4	8.58	124.00	118.00
36	1	2936	A	C5-C6-N1	8.58	121.99	117.70
36	5	3096	C	N1-C2-N3	8.58	125.20	119.20
36	5	665	A	C8-N9-C4	-8.57	102.37	105.80
36	5	865	U	N1-C2-O2	-8.57	116.80	122.80
36	5	906	A	N9-C4-C5	8.57	109.23	105.80
36	5	3202	G	N1-C6-O6	-8.57	114.75	119.90
1	6	575	C	C6-N1-C2	8.57	123.73	120.30
36	1	751	A	C5-C6-N1	8.57	121.98	117.70
36	1	1380	G	N3-C4-C5	8.57	132.88	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1807	G	N1-C6-O6	8.57	125.04	119.90
1	6	9	U	O5'-P-OP1	-8.57	97.99	105.70
1	6	1510	U	O5'-P-OP2	-8.57	97.99	105.70
36	5	2280	A	C5-C6-N6	-8.57	116.84	123.70
36	5	2335	G	N1-C6-O6	-8.57	114.76	119.90
36	1	65	A	N9-C4-C5	-8.57	102.37	105.80
36	1	908	G	N7-C8-N9	8.57	117.38	113.10
36	1	2330	C	N3-C4-C5	8.57	125.33	121.90
36	1	3050	U	N3-C2-O2	-8.57	116.20	122.20
1	6	1139	A	N1-C6-N6	8.57	123.74	118.60
36	5	2904	U	N1-C2-N3	8.57	120.04	114.90
48	m1	112	LEU	CA-CB-CG	8.57	135.01	115.30
36	5	2835	U	C6-N1-C2	-8.57	115.86	121.00
36	1	2314	U	C5-C6-N1	8.56	126.98	122.70
1	6	1572	G	C6-C5-N7	-8.56	125.26	130.40
1	6	1777	G	C4-C5-N7	8.56	114.22	110.80
36	5	707	U	N3-C4-C5	-8.56	109.46	114.60
36	5	2383	C	N3-C2-O2	-8.56	115.91	121.90
36	5	2695	A	N1-C6-N6	-8.56	113.46	118.60
36	1	414	U	N3-C4-C5	8.56	119.74	114.60
36	1	3273	A	C6-N1-C2	-8.56	113.46	118.60
36	1	2159	U	C6-N1-C1'	-8.56	109.22	121.20
36	5	1085	A	C6-C5-N7	-8.56	126.31	132.30
36	5	1719	G	N1-C6-O6	8.56	125.04	119.90
36	5	2195	C	N3-C4-C5	8.56	125.32	121.90
36	5	2697	A	N1-C6-N6	8.56	123.74	118.60
36	5	2848	G	C2-N3-C4	-8.56	107.62	111.90
36	5	2975	U	O5'-P-OP1	-8.56	98.00	105.70
36	5	371	G	C4-N9-C1'	-8.56	115.37	126.50
1	6	858	G	O4'-C1'-N9	8.56	115.05	108.20
1	2	1146	G	C8-N9-C4	-8.55	102.98	106.40
36	1	1442	U	N1-C2-O2	-8.56	116.81	122.80
1	6	1178	G	N3-C4-C5	-8.56	124.32	128.60
36	5	2908	G	C5-N7-C8	-8.56	100.02	104.30
36	1	326	U	N3-C4-C5	-8.55	109.47	114.60
36	5	2187	G	C5-C6-O6	8.55	133.73	128.60
37	3	88	G	N7-C8-N9	8.55	117.38	113.10
36	5	2243	A	N3-C4-C5	-8.55	120.81	126.80
36	1	719	U	N1-C2-N3	-8.55	109.77	114.90
36	1	1858	A	C2-N3-C4	8.55	114.88	110.60
36	5	1444	G	C4-C5-C6	8.55	123.93	118.80
36	5	2659	G	N1-C6-O6	8.55	125.03	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2871	G	C5-N7-C8	-8.55	100.03	104.30
1	2	610	G	C4-N9-C1'	8.55	137.61	126.50
36	1	217	U	C6-N1-C2	-8.55	115.87	121.00
36	5	1183	C	N3-C4-N4	8.55	123.98	118.00
36	5	2880	U	C2-N1-C1'	-8.55	107.44	117.70
36	1	857	G	N9-C4-C5	8.55	108.82	105.40
36	5	3085	G	OP1-P-O3'	8.55	124.00	105.20
36	1	2618	G	N9-C4-C5	8.55	108.82	105.40
36	5	713	U	N3-C2-O2	-8.55	116.22	122.20
36	5	2351	U	N1-C2-N3	8.55	120.03	114.90
36	5	2386	A	N1-C6-N6	8.55	123.73	118.60
36	1	3182	G	N1-C2-N2	-8.54	108.51	116.20
36	5	278	U	C5-C4-O4	8.54	131.03	125.90
1	2	1654	G	N3-C4-N9	8.54	131.13	126.00
1	2	1737	G	N3-C4-N9	-8.54	120.88	126.00
36	1	2939	G	OP2-P-O3'	8.54	124.00	105.20
36	1	2960	C	N3-C2-O2	-8.54	115.92	121.90
36	5	3324	C	C5-C6-N1	-8.54	116.73	121.00
36	5	3367	C	C6-N1-C2	8.54	123.72	120.30
36	1	3132	C	OP1-P-OP2	-8.54	106.79	119.60
36	5	2803	A	C5-C6-N1	-8.54	113.43	117.70
1	2	317	C	N3-C2-O2	-8.54	115.92	121.90
36	1	2640	A	N1-C2-N3	8.54	133.57	129.30
36	5	2732	G	C4-C5-N7	-8.54	107.39	110.80
36	5	3102	G	C8-N9-C4	8.54	109.81	106.40
36	1	1387	G	C6-N1-C2	-8.53	119.98	125.10
36	5	1298	C	C5-C4-N4	-8.53	114.23	120.20
36	1	2953	U	C5-C6-N1	8.53	126.97	122.70
36	5	2347	U	N3-C2-O2	-8.53	116.23	122.20
36	1	2639	G	C2-N3-C4	-8.53	107.64	111.90
36	5	1102	A	C6-N1-C2	-8.53	113.48	118.60
36	5	1131	G	N1-C6-O6	8.53	125.02	119.90
36	5	1209	G	N3-C2-N2	-8.53	113.93	119.90
36	5	2139	A	C8-N9-C4	-8.53	102.39	105.80
1	2	1114	G	N3-C4-C5	-8.53	124.34	128.60
36	1	714	G	C8-N9-C1'	-8.53	115.92	127.00
1	6	78	A	N9-C4-C5	8.53	109.21	105.80
36	5	2395	G	C5-N7-C8	-8.53	100.04	104.30
36	1	765	C	N1-C2-O2	8.52	124.01	118.90
36	1	638	C	C6-N1-C2	8.52	123.71	120.30
36	1	744	A	C2-N3-C4	-8.52	106.34	110.60
37	3	88	G	C5-C6-O6	8.52	133.71	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1483	A	N9-C4-C5	8.52	109.21	105.80
36	5	848	A	C4-C5-C6	8.52	121.26	117.00
36	5	2379	U	C5-C4-O4	8.52	131.01	125.90
36	5	2692	A	C5-C6-N1	8.52	121.96	117.70
36	1	2312	A	C5-C6-N1	8.52	121.96	117.70
36	1	2399	A	N9-C4-C5	-8.52	102.39	105.80
36	1	2960	C	C2-N3-C4	-8.52	115.64	119.90
1	6	22	A	C8-N9-C4	-8.52	102.39	105.80
1	6	423	G	N9-C4-C5	8.52	108.81	105.40
36	5	526	C	N3-C2-O2	-8.52	115.94	121.90
36	5	2112	U	O5'-P-OP2	-8.52	98.03	105.70
36	5	2728	G	C4-N9-C1'	8.52	137.58	126.50
36	1	210	U	N3-C2-O2	-8.52	116.24	122.20
36	5	1527	C	C2-N1-C1'	-8.52	109.43	118.80
36	1	2383	C	N3-C2-O2	8.52	127.86	121.90
36	5	2853	A	C4-C5-N7	8.52	114.96	110.70
36	1	909	G	C4-C5-N7	8.52	114.21	110.80
36	1	2193	U	N1-C2-O2	-8.52	116.84	122.80
36	1	2880	U	C6-N1-C1'	8.52	133.12	121.20
36	5	662	U	C5-C4-O4	-8.52	120.79	125.90
1	2	144	U	N1-C2-N3	8.51	120.01	114.90
36	1	2231	C	C6-N1-C2	8.51	123.70	120.30
36	5	371	G	N1-C6-O6	-8.51	114.79	119.90
36	5	422	A	N1-C2-N3	8.51	133.56	129.30
36	5	1330	A	N1-C6-N6	8.51	123.71	118.60
36	5	1879	A	N7-C8-N9	8.51	118.06	113.80
36	5	2634	U	C2-N3-C4	-8.51	121.89	127.00
36	5	2702	A	C8-N9-C4	-8.51	102.39	105.80
36	5	2813	A	C2-N3-C4	-8.51	106.34	110.60
36	5	2973	G	N3-C2-N2	-8.51	113.94	119.90
36	1	2959	C	N1-C2-O2	-8.51	113.79	118.90
36	5	918	C	N3-C4-N4	8.51	123.96	118.00
36	5	2994	A	N1-C2-N3	8.51	133.56	129.30
36	1	1428	A	C2-N3-C4	-8.51	106.35	110.60
38	4	38	U	C2-N1-C1'	8.51	127.91	117.70
36	5	1786	G	C5-N7-C8	-8.51	100.05	104.30
36	1	2136	C	C4-C5-C6	8.51	121.65	117.40
36	5	646	A	N1-C2-N3	8.51	133.55	129.30
36	5	687	U	C5-C4-O4	8.51	131.00	125.90
36	5	973	A	C5-N7-C8	-8.51	99.65	103.90
36	5	2640	A	C5-C6-N6	-8.51	116.90	123.70
36	1	1551	C	N3-C4-C5	8.50	125.30	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2329	C	N3-C4-N4	8.50	123.95	118.00
36	5	2151	C	N1-C2-O2	-8.50	113.80	118.90
36	1	907	G	C5-C6-N1	8.50	115.75	111.50
36	1	971	G	C4-N9-C1'	8.50	137.55	126.50
36	1	2974	U	C6-N1-C2	-8.50	115.90	121.00
1	6	1111	G	N1-C2-N3	8.50	129.00	123.90
1	6	1566	U	C6-N1-C2	8.50	126.10	121.00
36	1	3137	C	N3-C4-N4	-8.50	112.05	118.00
36	5	2863	G	N3-C4-C5	8.50	132.85	128.60
36	5	1192	C	N3-C4-C5	-8.50	118.50	121.90
36	1	833	G	C4-C5-N7	-8.50	107.40	110.80
36	5	2205	U	C5-C6-N1	8.50	126.95	122.70
1	2	334	G	N3-C4-N9	-8.49	120.90	126.00
36	5	2354	C	N1-C2-O2	-8.49	113.80	118.90
36	5	2922	G	C8-N9-C4	-8.49	103.00	106.40
36	5	3261	C	N3-C2-O2	8.49	127.84	121.90
36	1	1877	U	C5-C6-N1	-8.49	118.45	122.70
36	5	656	A	C5-C6-N6	-8.49	116.91	123.70
36	5	2168	A	C5-C6-N6	-8.49	116.91	123.70
37	7	104	A	C2-N3-C4	-8.49	106.35	110.60
36	1	2623	G	N9-C4-C5	-8.49	102.00	105.40
37	3	36	C	N3-C2-O2	-8.49	115.96	121.90
36	5	1141	C	N3-C4-C5	8.49	125.30	121.90
36	5	1692	U	O5'-P-OP2	-8.49	98.06	105.70
36	5	2638	C	C5-C4-N4	8.49	126.14	120.20
36	5	2876	C	C4-C5-C6	-8.49	113.16	117.40
1	2	99	C	C6-N1-C2	8.49	123.69	120.30
36	1	872	U	N1-C2-N3	8.49	119.99	114.90
36	1	1304	A	C4-C5-C6	-8.49	112.76	117.00
1	6	1600	A	C2-N3-C4	-8.49	106.36	110.60
36	5	645	A	N9-C4-C5	8.49	109.19	105.80
36	5	906	A	C8-N9-C4	-8.49	102.41	105.80
36	5	1166	G	N3-C4-C5	8.49	132.84	128.60
36	5	994	G	O4'-C1'-N9	-8.49	101.41	108.20
36	5	2366	C	N1-C2-O2	-8.49	113.81	118.90
36	5	2699	G	N3-C2-N2	-8.49	113.96	119.90
36	5	2735	U	N1-C2-N3	8.49	119.99	114.90
1	2	55	A	N1-C6-N6	8.48	123.69	118.60
36	1	688	G	N3-C4-N9	8.48	131.09	126.00
36	1	2682	C	O5'-P-OP2	-8.48	98.06	105.70
36	5	2382	G	C8-N9-C1'	8.48	138.03	127.00
36	5	2792	A	C8-N9-C4	-8.48	102.41	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	728	G	C5-C6-O6	-8.48	123.51	128.60
36	5	2761	G	C6-N1-C2	-8.48	120.01	125.10
37	7	42	A	C4-C5-C6	8.48	121.24	117.00
36	1	1172	G	C8-N9-C4	-8.48	103.01	106.40
36	5	644	G	N3-C4-C5	-8.48	124.36	128.60
36	5	1195	A	C2-N3-C4	-8.48	106.36	110.60
36	5	2145	A	C2-N3-C4	-8.48	106.36	110.60
36	5	960	U	N3-C2-O2	-8.48	116.27	122.20
36	5	1417	G	C8-N9-C4	-8.48	103.01	106.40
36	5	2904	U	C2-N3-C4	-8.48	121.91	127.00
36	5	3278	C	C6-N1-C2	8.48	123.69	120.30
36	5	3308	C	C6-N1-C1'	-8.48	110.63	120.80
36	5	2304	C	N3-C2-O2	8.47	127.83	121.90
36	1	2363	A	N1-C6-N6	-8.47	113.52	118.60
36	5	921	A	N1-C2-N3	8.47	133.54	129.30
36	5	1187	C	C6-N1-C2	8.47	123.69	120.30
36	1	651	G	OP2-P-O3'	8.47	123.84	105.20
36	1	1070	U	N3-C2-O2	-8.47	116.27	122.20
36	1	2093	A	N1-C6-N6	-8.47	113.52	118.60
36	1	2605	G	OP2-P-O3'	8.47	123.84	105.20
36	5	1337	A	C2-N3-C4	-8.47	106.36	110.60
1	2	1129	U	C5-C4-O4	8.47	130.98	125.90
36	1	3091	A	C5-N7-C8	-8.47	99.66	103.90
36	5	2952	G	N1-C6-O6	8.47	124.98	119.90
36	1	2867	C	C6-N1-C2	-8.47	116.91	120.30
36	5	1332	A	C2-N3-C4	-8.47	106.37	110.60
36	5	2286	U	C5-C6-N1	-8.47	118.47	122.70
37	7	49	G	C4-C5-N7	8.47	114.19	110.80
36	1	608	A	N3-C4-N9	8.47	134.17	127.40
36	1	1006	A	N1-C6-N6	8.47	123.68	118.60
36	5	2865	U	N3-C2-O2	-8.47	116.27	122.20
1	6	541	A	N1-C6-N6	8.46	123.68	118.60
36	5	1546	A	O5'-P-OP1	-8.46	98.08	105.70
36	5	2761	G	N1-C6-O6	-8.46	114.82	119.90
36	1	2830	G	C8-N9-C4	8.46	109.78	106.40
36	5	2936	A	N1-C2-N3	8.46	133.53	129.30
36	5	3006	A	N9-C4-C5	8.46	109.18	105.80
36	5	3271	G	C6-C5-N7	-8.46	125.32	130.40
36	1	1116	G	C4-C5-C6	8.46	123.88	118.80
36	1	3091	A	N7-C8-N9	8.46	118.03	113.80
1	6	1753	A	C4-N9-C1'	8.46	141.53	126.30
36	1	3174	A	C5-C6-N1	-8.46	113.47	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	639	G	N1-C2-N2	-8.46	108.59	116.20
36	1	3277	U	C6-N1-C2	-8.46	115.93	121.00
1	2	576	G	N1-C6-O6	8.45	124.97	119.90
1	2	1280	C	C5-C6-N1	8.45	125.23	121.00
36	5	1918	C	O5'-P-OP2	-8.46	98.09	105.70
1	2	1675	C	C6-N1-C2	8.45	123.68	120.30
36	1	1720	U	N1-C2-O2	8.45	128.72	122.80
36	1	2981	U	N1-C2-N3	8.45	119.97	114.90
36	5	35	A	O5'-P-OP2	-8.45	98.09	105.70
36	5	1719	G	N3-C4-C5	8.45	132.83	128.60
1	2	144	U	C2-N1-C1'	-8.45	107.56	117.70
36	1	350	C	C2-N1-C1'	8.45	128.10	118.80
36	1	1916	U	C5-C6-N1	-8.45	118.47	122.70
36	1	3152	U	C5-C4-O4	8.45	130.97	125.90
36	5	2610	G	C5-C6-O6	-8.45	123.53	128.60
36	5	2851	A	C4-C5-N7	-8.45	106.47	110.70
36	5	3079	U	C5-C6-N1	-8.45	118.47	122.70
1	2	311	U	C6-N1-C2	-8.45	115.93	121.00
36	1	1174	G	C8-N9-C1'	-8.45	116.02	127.00
36	5	784	A	C5-N7-C8	-8.45	99.67	103.90
36	1	1437	C	N1-C2-O2	8.45	123.97	118.90
36	5	1604	G	N3-C4-C5	-8.45	124.38	128.60
36	5	1786	G	C8-N9-C4	-8.45	103.02	106.40
36	5	2986	U	N3-C4-C5	-8.45	109.53	114.60
1	2	1203	A	O5'-P-OP1	-8.45	98.10	105.70
37	7	10	C	C5-C4-N4	-8.45	114.29	120.20
37	7	56	A	N1-C6-N6	8.45	123.67	118.60
36	5	1115	G	C4-N9-C1'	8.44	137.47	126.50
1	2	1439	C	O5'-P-OP1	-8.44	98.10	105.70
36	1	342	A	N1-C6-N6	8.44	123.67	118.60
1	6	905	A	C5-C6-N6	8.44	130.45	123.70
36	5	218	G	N9-C4-C5	8.44	108.78	105.40
36	5	1345	G	C2-N3-C4	-8.44	107.68	111.90
36	5	3093	C	C5-C6-N1	-8.44	116.78	121.00
36	5	3322	A	C2-N3-C4	-8.44	106.38	110.60
38	8	138	A	N9-C4-C5	8.44	109.18	105.80
36	1	1127	G	C2-N3-C4	-8.44	107.68	111.90
36	5	2940	A	C4-C5-C6	8.44	121.22	117.00
36	5	3187	A	C8-N9-C4	8.44	109.18	105.80
36	5	2942	C	N1-C2-N3	8.44	125.11	119.20
36	5	642	U	O5'-P-OP2	-8.44	98.11	105.70
36	5	867	G	C5-C6-N1	-8.44	107.28	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3144	G	N1-C2-N2	-8.44	108.61	116.20
1	6	1759	C	N3-C4-C5	-8.43	118.53	121.90
36	1	1604	G	N1-C6-O6	-8.43	114.84	119.90
36	1	3098	G	C5-C6-N1	8.43	115.72	111.50
1	6	308	C	C5-C6-N1	-8.43	116.78	121.00
36	5	35	A	C4-C5-N7	-8.43	106.48	110.70
36	5	278	U	C6-N1-C2	-8.43	115.94	121.00
37	7	49	G	N7-C8-N9	8.43	117.32	113.10
12	C0	88	PRO	N-CA-CB	8.43	113.42	103.30
36	1	394	G	N1-C6-O6	-8.43	114.84	119.90
36	1	639	G	N1-C2-N3	8.43	128.96	123.90
38	4	4	C	C6-N1-C2	-8.43	116.93	120.30
1	6	317	C	O5'-P-OP2	-8.43	98.11	105.70
36	1	1164	G	O5'-P-OP2	-8.43	98.11	105.70
36	1	2942	C	C4-C5-C6	-8.43	113.19	117.40
1	6	636	A	N1-C2-N3	8.43	133.51	129.30
36	1	1010	G	N3-C4-C5	8.43	132.81	128.60
36	1	2679	A	N1-C6-N6	8.43	123.66	118.60
36	1	1043	C	C6-N1-C2	8.43	123.67	120.30
36	5	50	U	N1-C2-O2	8.43	128.70	122.80
36	5	784	A	C6-C5-N7	-8.43	126.40	132.30
36	1	198	A	O5'-P-OP1	-8.42	98.12	105.70
36	1	372	A	C8-N9-C4	-8.42	102.43	105.80
36	1	1164	G	N3-C2-N2	-8.42	114.00	119.90
36	1	1311	G	O5'-P-OP1	-8.42	98.12	105.70
1	6	1447	C	N3-C2-O2	-8.42	116.00	121.90
36	5	1174	G	OP1-P-OP2	8.42	132.24	119.60
36	5	1473	G	C4-C5-N7	8.42	114.17	110.80
36	5	1780	G	C8-N9-C4	-8.42	103.03	106.40
36	5	2367	A	C2-N3-C4	-8.42	106.39	110.60
36	5	3285	C	C2-N1-C1'	8.42	128.07	118.80
1	2	1127	G	C8-N9-C4	-8.42	103.03	106.40
1	6	942	G	C8-N9-C4	-8.42	103.03	106.40
36	1	635	G	C5-N7-C8	-8.42	100.09	104.30
36	1	1205	A	O5'-P-OP1	8.42	120.80	110.70
36	1	1435	A	N9-C4-C5	8.42	109.17	105.80
36	1	2860	U	O5'-P-OP1	-8.42	98.12	105.70
36	5	357	A	N1-C2-N3	8.42	133.51	129.30
36	5	2662	G	N3-C4-N9	8.42	131.05	126.00
41	14	339	LEU	CA-CB-CG	8.42	134.66	115.30
36	1	1194	G	C2-N3-C4	8.41	116.11	111.90
36	1	2159	U	N1-C2-N3	-8.41	109.85	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	973	A	C8-N9-C4	8.41	109.17	105.80
1	6	1257	U	N1-C2-O2	8.41	128.69	122.80
36	5	974	G	C5-C6-O6	-8.41	123.55	128.60
36	5	1904	C	N3-C4-C5	8.41	125.27	121.90
37	7	90	U	O5'-P-OP2	-8.41	98.13	105.70
36	1	2356	A	C4-C5-N7	8.41	114.91	110.70
36	1	3307	A	O5'-P-OP2	-8.41	98.13	105.70
1	6	1536	G	N3-C4-N9	8.41	131.05	126.00
36	5	97	U	N3-C2-O2	8.41	128.09	122.20
36	5	1139	G	N3-C4-C5	8.41	132.81	128.60
36	1	1483	G	N3-C4-C5	-8.41	124.40	128.60
36	1	2884	C	C2-N1-C1'	-8.41	109.55	118.80
36	1	2979	U	C6-N1-C1'	8.41	132.97	121.20
1	6	1172	G	N1-C6-O6	-8.41	114.85	119.90
1	6	1185	U	N3-C2-O2	-8.41	116.31	122.20
36	5	36	C	O5'-P-OP1	-8.41	98.13	105.70
36	5	2212	C	C6-N1-C1'	-8.41	110.71	120.80
36	5	2126	A	C6-N1-C2	-8.41	113.56	118.60
36	5	2886	U	C4-C5-C6	8.41	124.75	119.70
36	1	2323	G	C5-C6-O6	-8.41	123.56	128.60
36	5	948	C	N3-C4-C5	8.41	125.26	121.90
36	5	1330	A	N3-C4-C5	8.41	132.68	126.80
36	1	1884	A	N1-C6-N6	-8.40	113.56	118.60
36	1	2779	A	C2-N3-C4	-8.40	106.40	110.60
36	5	2842	U	C2-N1-C1'	8.40	127.79	117.70
36	5	645	A	C6-N1-C2	-8.40	113.56	118.60
36	5	1377	G	N9-C4-C5	8.40	108.76	105.40
36	5	1884	A	C4-C5-C6	8.40	121.20	117.00
36	5	3211	C	C6-N1-C2	8.40	123.66	120.30
36	1	3383	G	N3-C4-C5	8.40	132.80	128.60
36	5	1107	C	C5-C6-N1	-8.40	116.80	121.00
36	1	1316	C	N3-C4-N4	8.40	123.88	118.00
36	1	1429	G	N3-C4-N9	8.40	131.04	126.00
36	1	2655	U	N1-C2-N3	8.40	119.94	114.90
1	6	922	G	N1-C6-O6	8.40	124.94	119.90
36	5	971	G	N1-C2-N2	-8.40	108.64	116.20
36	5	1165	A	C2-N3-C4	-8.40	106.40	110.60
36	5	1447	G	O5'-P-OP1	-8.40	98.14	105.70
36	5	2991	A	C5-C6-N1	8.40	121.90	117.70
36	5	3374	U	C5-C6-N1	-8.40	118.50	122.70
1	2	103	A	N1-C6-N6	8.40	123.64	118.60
38	4	53	A	N9-C4-C5	8.40	109.16	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	650	C	N3-C4-N4	-8.40	112.12	118.00
36	5	1848	G	N9-C4-C5	-8.40	102.04	105.40
36	5	3329	U	C4-C5-C6	8.40	124.74	119.70
38	8	26	U	C6-N1-C2	-8.40	115.96	121.00
36	1	198	A	N9-C4-C5	8.39	109.16	105.80
36	1	981	U	C6-N1-C2	-8.39	115.96	121.00
36	1	1141	C	O5'-P-OP1	-8.39	98.14	105.70
36	1	2192	C	N3-C2-O2	-8.39	116.03	121.90
1	6	315	A	N7-C8-N9	-8.39	109.60	113.80
1	6	1626	U	C5-C6-N1	-8.39	118.50	122.70
36	5	3137	C	C5-C4-N4	-8.39	114.32	120.20
36	1	87	U	N1-C2-N3	8.39	119.93	114.90
36	1	2311	G	C6-C5-N7	-8.39	125.37	130.40
1	6	1083	G	C8-N9-C4	-8.39	103.04	106.40
1	2	1479	A	N1-C6-N6	8.39	123.63	118.60
36	1	1304	A	N1-C2-N3	-8.39	125.11	129.30
36	1	1508	C	N3-C4-C5	-8.39	118.55	121.90
36	1	3150	A	C4-C5-N7	8.39	114.89	110.70
36	1	1057	A	N1-C6-N6	8.39	123.63	118.60
1	6	1145	U	N1-C2-O2	-8.39	116.93	122.80
1	6	1456	C	O5'-P-OP2	8.39	120.76	110.70
36	5	2155	G	N1-C2-N3	8.39	128.93	123.90
36	5	2212	C	O5'-P-OP1	8.39	120.76	110.70
36	1	205	C	C4-C5-C6	8.38	121.59	117.40
36	1	938	C	OP1-P-O3'	8.38	123.64	105.20
36	5	802	C	C2-N3-C4	-8.38	115.71	119.90
36	5	1364	C	OP2-P-O3'	8.38	123.64	105.20
36	1	506	U	C4-C5-C6	8.38	124.73	119.70
36	1	2864	A	O5'-P-OP1	-8.38	98.16	105.70
36	5	188	U	N3-C2-O2	-8.38	116.33	122.20
36	5	1400	G	N3-C4-C5	-8.38	124.41	128.60
36	5	2844	C	C6-N1-C2	-8.38	116.95	120.30
36	5	3179	U	N1-C2-N3	8.38	119.93	114.90
36	5	1599	G	C8-N9-C4	8.38	109.75	106.40
36	5	3309	G	C8-N9-C1'	-8.38	116.10	127.00
1	6	41	A	C8-N9-C4	-8.38	102.45	105.80
1	6	1086	A	C8-N9-C4	-8.38	102.45	105.80
1	6	1542	G	C4-C5-N7	-8.38	107.45	110.80
36	5	3377	G	C5-C6-O6	-8.38	123.57	128.60
38	8	61	A	N1-C6-N6	-8.38	113.57	118.60
1	2	1190	C	C5-C6-N1	-8.38	116.81	121.00
36	1	424	G	C5-C6-N1	8.38	115.69	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	496	C	C5-C6-N1	8.38	125.19	121.00
36	1	585	A	C4-C5-C6	8.38	121.19	117.00
36	1	1328	C	C5-C4-N4	-8.38	114.34	120.20
36	1	2296	A	C5-C6-N1	-8.38	113.51	117.70
36	1	2378	C	O5'-P-OP2	8.38	120.75	110.70
36	1	2618	G	O5'-P-OP2	-8.38	98.16	105.70
36	1	3318	G	C4-N9-C1'	8.38	137.39	126.50
36	1	3390	G	O5'-P-OP1	-8.38	98.16	105.70
38	4	30	C	N3-C4-C5	8.38	125.25	121.90
1	6	1004	U	N1-C2-N3	8.38	119.92	114.90
36	1	1520	G	C6-C5-N7	-8.37	125.38	130.40
36	1	2872	A	O5'-P-OP2	8.37	120.75	110.70
36	1	2187	G	N9-C4-C5	8.37	108.75	105.40
36	1	2908	G	N7-C8-N9	8.37	117.29	113.10
36	1	2937	G	N3-C2-N2	-8.37	114.04	119.90
36	5	1307	G	C4-C5-N7	8.37	114.15	110.80
36	1	1432	C	N3-C4-C5	-8.37	118.55	121.90
36	5	931	C	N3-C4-C5	-8.37	118.55	121.90
36	5	2632	G	N1-C6-O6	8.37	124.92	119.90
36	1	3006	A	N1-C2-N3	8.37	133.48	129.30
36	5	1924	U	N3-C2-O2	8.37	128.06	122.20
36	5	2667	A	N1-C6-N6	-8.37	113.58	118.60
36	1	2364	G	O5'-P-OP1	-8.37	98.17	105.70
36	1	798	G	N1-C6-O6	8.36	124.92	119.90
36	1	2314	U	N1-C2-N3	-8.37	109.88	114.90
1	6	442	C	N1-C2-O2	-8.37	113.88	118.90
36	1	2874	G	C8-N9-C4	-8.36	103.05	106.40
36	5	1482	A	C5-C6-N6	-8.37	117.01	123.70
36	5	2923	U	OP1-P-O3'	8.37	123.60	105.20
37	7	84	A	C6-N1-C2	-8.37	113.58	118.60
37	7	92	A	C4-C5-N7	8.37	114.88	110.70
36	1	223	U	O5'-P-OP2	-8.36	98.17	105.70
36	1	2605	G	C5-C6-N1	-8.36	107.32	111.50
36	5	1150	A	C8-N9-C4	-8.36	102.45	105.80
36	5	2872	A	O5'-P-OP1	-8.36	98.17	105.70
37	7	35	C	C6-N1-C2	8.36	123.64	120.30
36	1	1466	G	N1-C6-O6	8.36	124.92	119.90
37	3	82	G	C6-N1-C2	-8.36	120.08	125.10
36	5	1418	A	O5'-P-OP1	-8.36	98.18	105.70
36	5	3218	A	C6-C5-N7	-8.36	126.45	132.30
36	1	229	G	C8-N9-C4	-8.36	103.06	106.40
36	1	1503	A	N1-C2-N3	8.36	133.48	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	998	A	C6-N1-C2	-8.36	113.58	118.60
38	8	27	U	O5'-P-OP1	-8.36	98.18	105.70
1	6	402	C	C2-N3-C4	-8.36	115.72	119.90
36	1	1556	C	C6-N1-C2	-8.35	116.96	120.30
36	1	1658	G	N1-C2-N2	8.35	123.72	116.20
36	1	2877	G	C8-N9-C1'	8.35	137.86	127.00
1	6	1540	G	N1-C6-O6	-8.35	114.89	119.90
36	5	433	A	N1-C6-N6	8.35	123.61	118.60
36	5	1114	U	OP2-P-O3'	8.35	123.57	105.20
36	1	2843	U	N1-C2-O2	8.35	128.64	122.80
36	1	3106	A	O5'-P-OP1	-8.35	98.19	105.70
37	3	36	C	C6-N1-C2	-8.35	116.96	120.30
36	5	867	G	C6-C5-N7	-8.35	125.39	130.40
36	5	1149	G	C8-N9-C4	-8.35	103.06	106.40
36	5	1923	C	N1-C2-O2	-8.35	113.89	118.90
37	7	58	C	O5'-P-OP2	-8.35	98.19	105.70
36	1	37	U	C5-C6-N1	-8.35	118.53	122.70
36	1	1160	C	N3-C4-C5	-8.35	118.56	121.90
36	1	2115	G	C5-C6-O6	-8.35	123.59	128.60
36	1	3216	G	C8-N9-C4	8.35	109.74	106.40
36	5	1181	U	N3-C2-O2	-8.35	116.36	122.20
36	5	3062	G	N1-C6-O6	8.35	124.91	119.90
36	1	2417	U	C2-N3-C4	-8.34	121.99	127.00
38	4	4	C	O5'-P-OP2	-8.34	98.19	105.70
1	6	1614	A	C5-N7-C8	-8.34	99.73	103.90
36	5	1847	A	N3-C4-N9	-8.34	120.72	127.40
36	1	628	A	OP2-P-O3'	8.34	123.55	105.20
36	1	1542	G	N9-C4-C5	-8.34	102.06	105.40
36	5	2703	A	C6-C5-N7	-8.34	126.46	132.30
1	6	776	G	N1-C6-O6	8.34	124.90	119.90
1	6	1542	G	C5-N7-C8	8.34	108.47	104.30
36	5	1099	A	N9-C4-C5	-8.34	102.46	105.80
36	5	1292	C	N3-C2-O2	8.34	127.74	121.90
36	5	2968	G	N3-C2-N2	-8.34	114.06	119.90
1	6	300	A	N1-C6-N6	-8.34	113.60	118.60
1	6	1112	G	N9-C4-C5	8.34	108.73	105.40
36	1	372	A	N7-C8-N9	8.34	117.97	113.80
36	1	608	A	N9-C4-C5	-8.34	102.47	105.80
36	1	651	G	C4-N9-C1'	8.34	137.34	126.50
36	1	1457	U	O5'-P-OP1	-8.34	98.20	105.70
36	1	2910	A	C2-N3-C4	-8.34	106.43	110.60
36	5	2190	U	N1-C2-N3	8.34	119.90	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2243	A	C2-N3-C4	8.34	114.77	110.60
36	5	3088	G	N3-C2-N2	-8.34	114.06	119.90
36	1	1937	U	C5-C6-N1	-8.34	118.53	122.70
1	6	1107	G	N1-C6-O6	-8.34	114.90	119.90
36	5	595	G	N3-C2-N2	8.34	125.73	119.90
36	1	719	U	O4'-C1'-N1	-8.33	101.53	108.20
36	5	651	G	N3-C4-C5	-8.33	124.43	128.60
36	1	2339	C	C6-N1-C2	-8.33	116.97	120.30
1	6	402	C	C5-C4-N4	-8.33	114.37	120.20
36	5	3144	G	O5'-P-OP2	8.33	120.70	110.70
36	5	3129	A	N3-C4-N9	-8.33	120.73	127.40
36	1	41	G	C8-N9-C1'	8.33	137.83	127.00
36	1	806	A	O5'-P-OP1	-8.33	98.20	105.70
36	1	1003	A	O5'-P-OP1	-8.33	98.20	105.70
36	1	2901	G	C4-C5-N7	-8.33	107.47	110.80
36	5	339	C	C5-C6-N1	-8.33	116.84	121.00
36	5	1834	U	N3-C4-C5	-8.33	109.60	114.60
36	5	2397	A	N1-C6-N6	8.33	123.60	118.60
38	8	53	A	C5-C6-N1	8.33	121.86	117.70
36	1	329	U	N1-C2-N3	8.33	119.90	114.90
36	1	1104	G	C8-N9-C4	-8.33	103.07	106.40
36	1	2331	C	C2-N1-C1'	8.33	127.96	118.80
36	1	2420	C	O5'-P-OP1	-8.33	98.20	105.70
36	1	2794	G	N3-C4-C5	-8.33	124.44	128.60
38	4	41	A	N3-C4-C5	-8.33	120.97	126.80
1	6	1003	A	C8-N9-C4	8.33	109.13	105.80
36	5	842	G	C4-C5-C6	-8.33	113.80	118.80
36	5	3146	G	N3-C4-N9	8.33	131.00	126.00
36	5	1319	G	C5-N7-C8	8.33	108.46	104.30
36	1	1349	G	N3-C4-C5	-8.32	124.44	128.60
36	1	1406	A	C5-C6-N6	-8.32	117.04	123.70
36	1	3219	G	O5'-P-OP2	-8.32	98.21	105.70
36	5	1422	G	C4-C5-N7	8.32	114.13	110.80
36	1	331	G	N3-C2-N2	-8.32	114.08	119.90
1	6	420	A	N1-C6-N6	8.32	123.59	118.60
36	5	2278	C	C2-N1-C1'	8.32	127.95	118.80
36	5	2902	A	C6-N1-C2	-8.32	113.61	118.60
36	5	2920	U	N3-C2-O2	-8.32	116.38	122.20
36	5	3147	G	C2-N3-C4	-8.32	107.74	111.90
38	8	133	G	N7-C8-N9	-8.32	108.94	113.10
36	1	1191	U	C5-C6-N1	-8.32	118.54	122.70
36	1	2419	A	C5-N7-C8	-8.32	99.74	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2139	A	N1-C2-N3	8.32	133.46	129.30
36	1	2912	G	C8-N9-C4	-8.32	103.07	106.40
36	5	2887	A	C5-C6-N1	8.32	121.86	117.70
36	5	961	C	C6-N1-C2	-8.32	116.97	120.30
1	2	334	G	C8-N9-C4	8.31	109.73	106.40
1	2	1077	C	C5-C6-N1	8.31	125.16	121.00
36	1	324	A	O5'-P-OP2	8.31	120.68	110.70
36	1	596	C	N1-C2-N3	8.31	125.02	119.20
36	1	2823	G	C2-N3-C4	-8.31	107.74	111.90
1	6	552	G	C5-C6-O6	-8.31	123.61	128.60
36	5	633	C	N3-C4-C5	8.31	125.23	121.90
36	5	992	A	C2-N3-C4	-8.31	106.44	110.60
36	5	3329	U	N3-C4-C5	-8.31	109.61	114.60
36	1	916	G	C6-N1-C2	-8.31	120.11	125.10
36	1	1488	G	N1-C6-O6	8.31	124.89	119.90
1	6	913	G	N1-C6-O6	8.31	124.89	119.90
1	6	1594	G	C5-C6-O6	-8.31	123.61	128.60
36	5	429	U	O5'-P-OP2	-8.31	98.22	105.70
36	5	1408	G	C4-C5-C6	8.31	123.79	118.80
36	5	2572	C	N1-C2-O2	8.31	123.89	118.90
36	1	1010	G	C8-N9-C4	8.31	109.72	106.40
36	1	2187	G	N1-C2-N3	8.31	128.88	123.90
1	6	608	U	N1-C2-O2	8.31	128.62	122.80
36	5	643	U	N1-C2-O2	8.31	128.62	122.80
36	1	2729	U	C5-C6-N1	-8.30	118.55	122.70
36	5	588	G	N3-C4-C5	-8.30	124.45	128.60
36	1	50	U	C6-N1-C2	-8.30	116.02	121.00
36	1	2895	G	C4-N9-C1'	8.30	137.29	126.50
36	5	2359	C	O5'-P-OP2	-8.30	98.23	105.70
36	1	2883	U	N1-C2-O2	8.30	128.61	122.80
1	6	983	A	C8-N9-C4	-8.30	102.48	105.80
36	5	555	U	N1-C2-O2	-8.30	116.99	122.80
36	5	639	G	C4-C5-C6	8.30	123.78	118.80
36	1	1046	A	C2-N3-C4	-8.30	106.45	110.60
36	1	2286	U	C5-C6-N1	-8.30	118.55	122.70
36	1	1446	A	N9-C4-C5	8.29	109.12	105.80
36	1	817	A	O5'-P-OP1	-8.29	98.24	105.70
36	5	1085	A	C8-N9-C4	-8.29	102.48	105.80
36	1	943	U	O5'-P-OP1	-8.29	98.24	105.70
1	6	100	A	N1-C2-N3	8.29	133.45	129.30
1	6	765	G	N9-C4-C5	-8.29	102.08	105.40
36	5	555	U	N3-C2-O2	8.29	128.00	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1139	G	C5-C6-O6	8.29	133.58	128.60
36	1	1507	G	C8-N9-C4	8.29	109.72	106.40
36	1	2185	G	N1-C6-O6	8.29	124.87	119.90
1	6	326	G	C4-C5-C6	8.29	123.77	118.80
36	5	588	G	C6-N1-C2	-8.29	120.13	125.10
36	5	636	C	C4-C5-C6	8.29	121.54	117.40
36	5	1138	U	C5-C6-N1	-8.29	118.56	122.70
36	1	1369	A	N1-C2-N3	8.29	133.44	129.30
1	6	967	A	N9-C4-C5	-8.29	102.49	105.80
1	6	1768	G	N3-C4-N9	-8.29	121.03	126.00
36	5	1212	A	C6-N1-C2	-8.29	113.63	118.60
36	1	1432	C	C6-N1-C2	-8.28	116.99	120.30
36	1	1720	U	C5-C4-O4	8.28	130.87	125.90
36	1	3209	A	C5-C6-N1	-8.28	113.56	117.70
1	6	678	A	C8-N9-C4	-8.28	102.49	105.80
36	5	3103	A	C2-N3-C4	-8.28	106.46	110.60
1	2	1082	C	C6-N1-C2	-8.28	116.99	120.30
36	1	2811	A	C5-C6-N1	8.28	121.84	117.70
36	5	367	A	C2-N3-C4	-8.28	106.46	110.60
36	5	1044	U	N1-C2-N3	8.28	119.87	114.90
36	5	1943	C	C6-N1-C2	-8.28	116.99	120.30
36	5	2626	A	N1-C2-N3	8.28	133.44	129.30
36	1	2334	U	OP1-P-O3'	8.28	123.41	105.20
36	1	2344	U	C5-C4-O4	8.28	130.87	125.90
36	1	25	U	N3-C4-O4	8.28	125.19	119.40
36	1	1840	U	N1-C2-N3	8.28	119.86	114.90
36	1	2182	A	C5-C6-N6	-8.28	117.08	123.70
1	6	106	U	C5-C4-O4	8.28	130.87	125.90
36	5	1080	A	C8-N9-C4	8.28	109.11	105.80
36	5	2136	C	C6-N1-C2	-8.28	116.99	120.30
36	5	2656	A	N1-C2-N3	8.28	133.44	129.30
36	5	1586	G	N1-C6-O6	-8.28	114.94	119.90
36	1	2241	U	C2-N1-C1'	-8.27	107.77	117.70
1	6	1420	C	N3-C2-O2	-8.27	116.11	121.90
37	3	30	G	C8-N9-C4	-8.27	103.09	106.40
36	5	3024	A	C2-N3-C4	-8.27	106.46	110.60
36	5	3055	U	C2-N3-C4	-8.27	122.04	127.00
36	5	3139	A	C6-N1-C2	-8.27	113.64	118.60
1	2	1146	G	N3-C4-N9	8.27	130.96	126.00
1	6	301	A	C5-C6-N1	8.27	121.83	117.70
1	2	1787	C	N3-C4-C5	8.27	125.21	121.90
36	1	1547	G	C6-C5-N7	-8.27	125.44	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3227	A	C4-C5-N7	8.27	114.83	110.70
36	1	2772	C	N1-C1'-C2'	8.27	124.75	114.00
36	5	647	A	C5-C6-N6	8.27	130.31	123.70
1	2	529	A	C8-N9-C4	8.27	109.11	105.80
36	5	676	G	O5'-P-OP1	-8.27	98.26	105.70
36	5	2174	G	O5'-P-OP1	-8.27	98.26	105.70
1	2	1143	A	O5'-P-OP2	-8.26	98.26	105.70
38	4	51	G	C5-C6-N1	-8.26	107.37	111.50
1	6	352	A	O5'-P-OP2	-8.26	98.26	105.70
36	5	2638	C	C5-C6-N1	8.26	125.13	121.00
36	5	3216	G	N1-C6-O6	-8.26	114.94	119.90
36	1	1412	G	C5-C6-N1	-8.26	107.37	111.50
36	1	289	A	O5'-P-OP1	-8.26	98.27	105.70
38	4	144	G	C8-N9-C4	8.26	109.70	106.40
1	6	335	U	C2-N1-C1'	8.26	127.61	117.70
36	5	2710	C	N1-C2-O2	-8.26	113.94	118.90
36	1	780	A	C5-C6-N6	8.26	130.31	123.70
38	4	40	A	C2-N3-C4	8.26	114.73	110.60
36	5	86	G	O4'-C1'-N9	8.26	114.81	108.20
36	5	1786	G	N7-C8-N9	8.26	117.23	113.10
36	5	2397	A	N3-C4-C5	8.26	132.58	126.80
37	7	24	A	N1-C6-N6	-8.26	113.64	118.60
36	1	2870	C	N3-C2-O2	8.26	127.68	121.90
37	3	26	C	N3-C2-O2	-8.26	116.12	121.90
1	6	1765	A	N1-C2-N3	8.26	133.43	129.30
36	5	209	A	C5-C6-N6	-8.26	117.09	123.70
36	1	85	A	C2-N3-C4	-8.26	106.47	110.60
36	1	2162	U	C5-C6-N1	-8.26	118.57	122.70
36	5	2136	C	N3-C4-N4	8.26	123.78	118.00
36	5	2673	A	N7-C8-N9	-8.26	109.67	113.80
36	5	3195	U	P-O3'-C3'	8.26	129.61	119.70
36	5	89	A	C2-N3-C4	-8.25	106.47	110.60
36	1	40	A	N9-C4-C5	8.25	109.10	105.80
36	1	975	C	N3-C4-C5	-8.25	118.60	121.90
37	3	97	A	N1-C6-N6	8.25	123.55	118.60
36	5	1186	G	O5'-P-OP2	-8.25	98.27	105.70
36	5	2631	U	OP2-P-O3'	8.25	123.35	105.20
36	1	1139	G	C4-N9-C1'	-8.25	115.77	126.50
36	5	1373	A	C5-N7-C8	-8.25	99.77	103.90
36	1	693	A	O5'-P-OP2	8.25	120.60	110.70
36	1	3388	C	N3-C4-C5	8.25	125.20	121.90
36	5	404	G	N1-C6-O6	8.25	124.85	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2377	G	C6-C5-N7	8.25	135.35	130.40
36	1	522	A	C2-N3-C4	-8.25	106.48	110.60
36	1	2899	C	C2-N3-C4	-8.25	115.78	119.90
1	6	922	G	C6-C5-N7	-8.25	125.45	130.40
36	1	3121	U	N3-C2-O2	-8.25	116.43	122.20
36	5	339	C	C2-N1-C1'	-8.25	109.73	118.80
36	5	2979	U	C5-C6-N1	-8.25	118.58	122.70
36	1	1127	G	OP1-P-OP2	8.24	131.97	119.60
36	1	1897	G	N7-C8-N9	8.24	117.22	113.10
36	5	868	C	N1-C2-O2	-8.24	113.95	118.90
36	1	1516	C	C4-C5-C6	8.24	121.52	117.40
36	1	2722	U	N3-C4-O4	8.24	125.17	119.40
1	6	962	C	N1-C2-O2	-8.24	113.95	118.90
1	6	1536	G	C4-N9-C1'	8.24	137.22	126.50
36	1	2120	A	N1-C6-N6	-8.24	113.66	118.60
36	1	2572	C	C6-N1-C2	-8.24	117.00	120.30
36	5	1840	U	C2-N3-C4	-8.24	122.05	127.00
37	7	88	G	C6-N1-C2	-8.24	120.15	125.10
1	2	1761	U	C6-N1-C2	-8.24	116.06	121.00
38	4	38	U	N3-C2-O2	-8.24	116.43	122.20
36	5	394	G	C4-C5-N7	-8.24	107.50	110.80
36	1	2813	A	N9-C4-C5	8.24	109.10	105.80
1	6	1143	A	N1-C6-N6	8.24	123.54	118.60
36	5	874	U	N1-C2-O2	-8.24	117.03	122.80
36	5	2197	C	C5-C4-N4	-8.24	114.43	120.20
36	1	1346	G	O5'-P-OP2	-8.24	98.29	105.70
36	1	3344	A	C2-N3-C4	-8.24	106.48	110.60
37	3	87	G	N3-C2-N2	-8.24	114.13	119.90
36	1	424	G	N3-C4-N9	8.24	130.94	126.00
1	6	1070	C	N3-C4-C5	8.24	125.19	121.90
36	5	71	A	C5-N7-C8	8.24	108.02	103.90
36	5	1373	A	C4-C5-N7	8.24	114.82	110.70
36	1	52	A	C4-C5-N7	-8.23	106.58	110.70
36	1	1313	G	N3-C4-C5	8.23	132.72	128.60
36	1	2376	G	OP1-P-OP2	8.23	131.95	119.60
36	1	3050	U	C5-C4-O4	8.23	130.84	125.90
36	1	3311	C	C6-N1-C2	8.23	123.59	120.30
36	5	433	A	C6-C5-N7	-8.23	126.54	132.30
36	5	2187	G	N1-C2-N3	8.23	128.84	123.90
36	1	227	G	C4-N9-C1'	8.23	137.20	126.50
1	6	946	U	C5-C6-N1	8.23	126.82	122.70
71	o5	36	LEU	CA-CB-CG	8.23	134.24	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	322	U	N3-C2-O2	-8.23	116.44	122.20
36	1	1166	G	C2-N3-C4	-8.23	107.78	111.90
38	4	20	U	C2-N3-C4	-8.23	122.06	127.00
1	6	1655	A	C8-N9-C4	-8.23	102.51	105.80
36	5	1593	A	O5'-P-OP2	-8.23	98.30	105.70
36	5	2303	A	C4-C5-N7	8.23	114.81	110.70
37	3	92	A	N1-C6-N6	8.23	123.54	118.60
1	6	1663	G	N3-C4-C5	8.23	132.71	128.60
36	1	357	A	C6-N1-C2	-8.22	113.67	118.60
36	5	3387	U	C4-C5-C6	8.22	124.64	119.70
36	1	304	G	N1-C6-O6	-8.22	114.97	119.90
36	1	357	A	N1-C6-N6	-8.22	113.67	118.60
36	1	676	G	N3-C4-N9	8.22	130.94	126.00
36	1	1408	G	C4-C5-N7	8.22	114.09	110.80
36	1	1533	U	N1-C2-N3	8.22	119.83	114.90
36	1	2772	C	O4'-C1'-N1	8.22	114.78	108.20
36	5	760	G	N1-C6-O6	8.22	124.83	119.90
1	6	473	A	N1-C6-N6	-8.22	113.67	118.60
36	5	644	G	C5-N7-C8	8.22	108.41	104.30
36	5	645	A	O5'-P-OP1	-8.22	98.30	105.70
36	5	707	U	C6-N1-C2	-8.22	116.07	121.00
36	5	2149	A	C8-N9-C4	8.22	109.09	105.80
36	1	40	A	C5-C6-N6	8.22	130.28	123.70
36	1	92	G	C5-C6-O6	-8.22	123.67	128.60
36	1	2639	G	N1-C2-N2	8.22	123.60	116.20
36	1	2916	U	N1-C2-N3	-8.22	109.97	114.90
1	6	427	C	C6-N1-C2	8.22	123.59	120.30
36	5	371	G	N3-C4-C5	8.22	132.71	128.60
36	5	531	G	C4-N9-C1'	8.22	137.19	126.50
36	5	3177	G	N1-C2-N2	-8.22	108.80	116.20
36	1	1136	A	C5-N7-C8	8.22	108.01	103.90
37	7	52	G	C8-N9-C4	8.22	109.69	106.40
1	6	424	C	O5'-P-OP2	-8.22	98.31	105.70
1	6	1284	C	C4-C5-C6	8.22	121.51	117.40
36	5	609	G	C6-N1-C2	8.22	130.03	125.10
36	5	2610	G	C8-N9-C1'	8.22	137.68	127.00
36	1	667	C	C2-N3-C4	8.22	124.01	119.90
36	1	780	A	C6-N1-C2	-8.21	113.67	118.60
36	1	857	G	C8-N9-C4	-8.21	103.11	106.40
36	1	3181	C	N1-C2-N3	8.21	124.95	119.20
1	6	1137	A	O4'-C1'-N9	-8.21	101.63	108.20
1	6	1409	G	O5'-P-OP1	-8.21	98.31	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2428	U	C2-N3-C4	-8.21	122.07	127.00
36	5	2656	A	C5-C6-N6	8.22	130.27	123.70
36	5	2659	G	C2-N3-C4	-8.21	107.79	111.90
1	2	515	A	C8-N9-C4	-8.21	102.52	105.80
1	2	1782	A	N7-C8-N9	8.21	117.91	113.80
1	6	1645	G	C2-N3-C4	8.21	116.01	111.90
36	5	1514	G	N3-C4-N9	8.21	130.93	126.00
36	5	1694	U	N1-C2-O2	-8.21	117.05	122.80
36	5	1874	A	C5-C6-N1	-8.21	113.59	117.70
36	5	2993	G	N7-C8-N9	8.21	117.21	113.10
36	1	375	A	N1-C6-N6	8.21	123.53	118.60
36	1	643	U	O5'-P-OP2	-8.21	98.31	105.70
1	6	1556	A	N9-C4-C5	-8.21	102.52	105.80
36	5	672	A	O5'-P-OP2	-8.21	98.31	105.70
36	5	1608	C	C2-N1-C1'	8.21	127.83	118.80
36	5	3216	G	C5-C6-N1	8.21	115.60	111.50
1	6	1000	C	N3-C2-O2	-8.21	116.16	121.90
36	5	1224	C	C6-N1-C2	-8.21	117.02	120.30
36	5	2393	G	C5-N7-C8	-8.21	100.20	104.30
36	1	1607	U	P-O3'-C3'	8.20	129.54	119.70
36	5	2632	G	C4-C5-N7	8.21	114.08	110.80
36	1	2377	G	C5-C6-N1	8.20	115.60	111.50
38	4	40	A	C8-N9-C4	-8.20	102.52	105.80
36	5	649	A	C5-C6-N6	-8.20	117.14	123.70
36	1	2879	C	N3-C4-N4	8.20	123.74	118.00
1	6	349	U	N3-C2-O2	-8.20	116.46	122.20
36	5	2908	G	N7-C8-N9	8.20	117.20	113.10
36	5	1172	G	C4-N9-C1'	8.20	137.16	126.50
36	5	1695	U	O5'-P-OP1	-8.20	98.32	105.70
36	5	2720	G	OP2-P-O3'	8.20	123.24	105.20
36	5	595	G	N3-C4-N9	8.20	130.92	126.00
36	5	1333	C	C2-N1-C1'	8.20	127.82	118.80
36	5	2105	G	C5-C6-O6	-8.20	123.68	128.60
36	5	2741	C	C2-N3-C4	8.20	124.00	119.90
36	1	2641	U	N3-C4-O4	-8.20	113.66	119.40
36	1	1514	G	C8-N9-C4	-8.20	103.12	106.40
36	1	2969	A	C2-N3-C4	-8.20	106.50	110.60
36	1	3307	A	O5'-P-OP1	8.20	120.53	110.70
1	6	1540	G	C5-C6-O6	8.20	133.52	128.60
1	6	1590	G	C5-C6-N1	8.20	115.60	111.50
36	1	1585	C	N1-C2-N3	-8.19	113.46	119.20
36	5	2400	G	C5-N7-C8	-8.20	100.20	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2662	G	C4-C5-C6	8.20	123.72	118.80
1	2	1337	A	O5'-P-OP2	-8.19	98.33	105.70
36	1	2129	U	N1-C2-O2	8.19	128.53	122.80
36	5	2280	A	C4-C5-N7	8.19	114.80	110.70
36	1	19	U	N1-C2-N3	8.19	119.81	114.90
36	1	1339	C	N1-C2-O2	-8.19	113.99	118.90
37	7	43	U	N3-C4-O4	-8.19	113.67	119.40
36	5	91	G	C4-C5-N7	8.19	114.08	110.80
36	5	864	G	N3-C4-N9	8.19	130.91	126.00
36	5	916	G	N3-C4-N9	8.19	130.91	126.00
36	1	1146	C	C2-N3-C4	8.19	123.99	119.90
36	5	2638	C	C2-N3-C4	8.19	123.99	119.90
36	5	2653	C	N1-C2-O2	-8.19	113.99	118.90
36	5	2887	A	C2-N3-C4	8.19	114.69	110.60
36	5	3208	G	C6-C5-N7	-8.19	125.49	130.40
1	6	1642	G	O5'-P-OP2	-8.19	98.33	105.70
36	5	2893	C	C2-N3-C4	8.19	123.99	119.90
36	1	2121	G	C5-C6-O6	8.18	133.51	128.60
36	5	644	G	N1-C6-O6	-8.18	114.99	119.90
36	5	2855	U	N1-C2-O2	-8.18	117.07	122.80
36	5	3209	A	O4'-C1'-N9	8.18	114.75	108.20
1	2	1654	G	N3-C4-C5	-8.18	124.51	128.60
36	1	326	U	N3-C4-O4	8.18	125.12	119.40
38	4	94	C	N1-C2-N3	-8.18	113.47	119.20
37	3	99	G	N9-C4-C5	8.18	108.67	105.40
36	5	1530	U	N3-C2-O2	8.18	127.92	122.20
36	1	622	A	C5-N7-C8	-8.18	99.81	103.90
36	1	913	A	C6-C5-N7	-8.18	126.58	132.30
36	1	929	A	C4-C5-N7	8.18	114.79	110.70
36	1	3055	U	C5-C4-O4	-8.18	120.99	125.90
69	O3	21	ARG	NE-CZ-NH1	8.18	124.39	120.30
36	5	2623	G	N9-C4-C5	-8.18	102.13	105.40
36	1	1136	A	C6-N1-C2	-8.17	113.69	118.60
36	1	1559	A	N1-C6-N6	8.17	123.50	118.60
36	1	2855	U	C5-C6-N1	-8.17	118.61	122.70
36	1	3135	U	C2-N3-C4	-8.17	122.10	127.00
1	6	453	U	N3-C2-O2	-8.17	116.48	122.20
36	5	585	A	OP2-P-O3'	8.17	123.18	105.20
36	5	2934	A	C4-C5-N7	8.17	114.79	110.70
36	5	2952	G	C6-C5-N7	-8.17	125.50	130.40
38	8	31	G	N1-C6-O6	-8.17	115.00	119.90
36	1	813	G	C4-C5-N7	8.17	114.07	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1525	G	C4-N9-C1'	8.17	137.12	126.50
1	6	453	U	N1-C2-O2	8.17	128.52	122.80
36	5	1301	A	C8-N9-C4	-8.17	102.53	105.80
36	5	1408	G	N1-C2-N3	8.17	128.80	123.90
36	5	2793	G	N3-C4-N9	-8.17	121.10	126.00
36	5	2808	A	C8-N9-C4	-8.17	102.53	105.80
36	5	3393	U	C2-N3-C4	-8.17	122.10	127.00
36	5	3268	A	O4'-C1'-N9	-8.17	101.67	108.20
36	1	276	U	O5'-P-OP1	-8.17	98.35	105.70
36	1	1487	G	N9-C4-C5	8.17	108.67	105.40
36	5	1059	G	C4-C5-N7	-8.17	107.53	110.80
36	5	1185	C	OP1-P-OP2	-8.17	107.35	119.60
36	1	2418	G	C2-N3-C4	8.16	115.98	111.90
1	2	1438	G	C2-N3-C4	-8.16	107.82	111.90
36	1	1217	A	O5'-P-OP2	-8.16	98.35	105.70
37	3	92	A	C5-C6-N1	-8.16	113.62	117.70
36	5	2854	U	N3-C2-O2	-8.16	116.48	122.20
36	1	644	G	N9-C4-C5	8.16	108.67	105.40
36	1	2764	C	C5-C6-N1	8.16	125.08	121.00
36	1	2867	C	C5-C6-N1	8.16	125.08	121.00
36	5	1902	G	C5-C6-O6	-8.16	123.70	128.60
36	5	561	C	N3-C4-C5	-8.16	118.64	121.90
36	5	1408	G	C8-N9-C1'	-8.16	116.39	127.00
36	5	2122	G	C5-C6-O6	-8.16	123.70	128.60
36	1	960	U	C2-N3-C4	-8.16	122.10	127.00
36	5	831	G	N1-C6-O6	8.16	124.80	119.90
37	7	45	A	O5'-P-OP2	-8.16	98.36	105.70
37	7	92	A	C5-N7-C8	-8.16	99.82	103.90
36	1	1425	U	C5-C6-N1	-8.16	118.62	122.70
36	1	2132	C	N1-C2-O2	-8.16	114.00	118.90
1	6	1542	G	C5-C6-O6	8.16	133.50	128.60
36	5	1495	U	N3-C2-O2	-8.16	116.49	122.20
36	1	1508	C	C4-C5-C6	8.16	121.48	117.40
36	1	2394	G	N9-C4-C5	8.16	108.66	105.40
36	5	2199	G	C8-N9-C1'	-8.16	116.40	127.00
36	5	2422	C	C5-C6-N1	-8.16	116.92	121.00
36	1	922	U	O5'-P-OP1	-8.15	98.36	105.70
36	1	1307	G	N1-C6-O6	-8.15	115.01	119.90
36	1	2828	G	N1-C6-O6	-8.15	115.01	119.90
36	1	2790	A	O5'-P-OP2	-8.15	98.36	105.70
1	6	1624	C	C6-N1-C2	8.15	123.56	120.30
36	5	423	A	C4-C5-C6	8.15	121.08	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1514	G	C8-N9-C1'	-8.15	116.40	127.00
36	1	3293	U	C2-N1-C1'	-8.15	107.92	117.70
36	5	2377	G	C4-C5-C6	-8.15	113.91	118.80
36	5	3102	G	O5'-P-OP1	-8.15	98.36	105.70
36	1	866	A	C2-N3-C4	-8.15	106.53	110.60
36	1	1442	U	C5-C4-O4	-8.15	121.01	125.90
36	5	3322	A	N1-C6-N6	8.15	123.49	118.60
36	1	2639	G	C8-N9-C4	-8.15	103.14	106.40
1	6	1278	G	C4-C5-C6	8.15	123.69	118.80
36	1	796	U	C5-C4-O4	-8.15	121.01	125.90
36	1	2639	G	C5-N7-C8	-8.15	100.23	104.30
1	6	341	A	N1-C6-N6	-8.15	113.71	118.60
36	5	2382	G	N3-C4-C5	8.15	132.67	128.60
36	5	2632	G	O5'-P-OP2	-8.15	98.37	105.70
36	1	979	U	P-O3'-C3'	8.14	129.47	119.70
36	5	971	G	N1-C2-N3	8.14	128.79	123.90
36	1	2193	U	C5-C6-N1	-8.14	118.63	122.70
1	6	1787	C	N1-C2-N3	8.14	124.90	119.20
36	5	1912	U	C6-N1-C2	8.14	125.89	121.00
36	5	2392	C	C6-N1-C2	8.14	123.56	120.30
36	1	1604	G	C4-N9-C1'	8.14	137.09	126.50
38	4	18	U	N3-C2-O2	-8.14	116.50	122.20
1	6	1668	G	N1-C6-O6	8.14	124.78	119.90
1	2	1413	U	C5-C6-N1	8.14	126.77	122.70
36	1	495	G	N3-C4-C5	8.14	132.67	128.60
1	6	971	A	C2-N3-C4	-8.14	106.53	110.60
36	1	802	C	N3-C2-O2	-8.14	116.20	121.90
36	1	904	A	C2-N3-C4	-8.14	106.53	110.60
36	1	1210	U	N3-C2-O2	-8.14	116.50	122.20
36	1	1905	G	C2-N3-C4	-8.14	107.83	111.90
36	1	2197	C	N1-C2-N3	-8.14	113.50	119.20
36	1	2760	C	O5'-P-OP2	-8.14	98.38	105.70
36	1	856	G	N3-C4-C5	-8.13	124.53	128.60
36	5	910	G	O5'-P-OP2	-8.13	98.38	105.70
36	5	920	A	C5-C6-N1	-8.13	113.63	117.70
36	5	2665	U	N3-C4-C5	8.14	119.48	114.60
36	1	1178	G	C5-C6-N1	8.13	115.57	111.50
36	1	1883	A	C8-N9-C4	8.13	109.05	105.80
1	6	554	C	N3-C4-C5	8.13	125.15	121.90
36	5	404	G	C4-C5-C6	8.13	123.68	118.80
36	1	2403	G	OP2-P-O3'	8.13	123.09	105.20
37	7	1	G	N7-C8-N9	8.13	117.17	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1321	G	C2-N3-C4	-8.13	107.83	111.90
36	1	1482	A	C5-C6-N6	-8.13	117.20	123.70
36	5	965	A	C5-C6-N6	-8.13	117.20	123.70
36	5	2824	G	C4-C5-N7	8.13	114.05	110.80
36	1	2376	G	C5-N7-C8	-8.13	100.24	104.30
36	1	2628	A	N7-C8-N9	8.13	117.86	113.80
36	1	3142	A	N9-C4-C5	8.13	109.05	105.80
36	5	2684	C	N3-C2-O2	-8.13	116.21	121.90
37	7	1	G	C4-N9-C1'	8.13	137.07	126.50
36	1	517	G	C8-N9-C4	-8.13	103.15	106.40
36	1	609	G	C5-C6-O6	-8.13	123.72	128.60
36	1	907	G	N3-C4-C5	-8.12	124.54	128.60
36	5	927	C	O5'-P-OP1	-8.13	98.39	105.70
36	5	1353	U	O4'-C1'-N1	8.12	114.70	108.20
36	5	2411	U	O5'-P-OP2	-8.12	98.39	105.70
36	5	2895	G	C6-C5-N7	-8.12	125.53	130.40
36	1	229	G	N9-C4-C5	8.12	108.65	105.40
36	1	1144	U	N3-C4-O4	8.12	125.08	119.40
36	1	2150	G	C5-C6-N1	-8.12	107.44	111.50
36	5	728	G	OP2-P-O3'	8.12	123.07	105.20
36	5	2352	A	O5'-P-OP2	-8.12	98.39	105.70
1	2	49	C	N3-C4-C5	-8.12	118.65	121.90
36	5	372	A	C5-C6-N6	8.12	130.20	123.70
36	5	1408	G	N9-C4-C5	-8.12	102.15	105.40
36	1	2332	A	N1-C6-N6	8.12	123.47	118.60
1	6	356	G	N3-C4-N9	8.12	130.87	126.00
36	5	1408	G	N1-C6-O6	8.12	124.77	119.90
36	1	639	G	N1-C6-O6	8.12	124.77	119.90
36	1	887	G	C5-C6-O6	-8.11	123.73	128.60
36	1	1448	U	N1-C2-O2	-8.12	117.12	122.80
36	1	1894	U	N1-C2-O2	-8.12	117.12	122.80
36	1	2827	U	C6-N1-C1'	8.11	132.56	121.20
1	6	251	A	N1-C6-N6	8.11	123.47	118.60
36	5	776	U	C5-C6-N1	-8.11	118.64	122.70
36	5	1330	A	N9-C4-C5	-8.11	102.56	105.80
36	5	1408	G	N1-C2-N2	-8.11	108.90	116.20
36	5	2615	G	N3-C2-N2	-8.11	114.22	119.90
36	5	2897	A	C6-C5-N7	-8.11	126.62	132.30
36	1	906	A	C8-N9-C4	-8.11	102.56	105.80
36	1	1495	U	C2-N1-C1'	-8.11	107.97	117.70
36	5	1150	A	C5-C6-N1	8.11	121.75	117.70
36	5	2991	A	N3-C4-C5	-8.11	121.12	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1537	C	C4-C5-C6	-8.11	113.35	117.40
36	1	2889	C	C2-N3-C4	8.11	123.95	119.90
1	6	1112	G	N3-C4-N9	-8.11	121.14	126.00
36	5	1370	G	C6-N1-C2	-8.11	120.23	125.10
36	1	838	G	C2-N3-C4	-8.11	107.85	111.90
36	1	2122	G	C5-N7-C8	-8.11	100.25	104.30
36	1	1898	G	C2-N3-C4	8.11	115.95	111.90
36	1	2198	A	N1-C2-N3	8.11	133.35	129.30
36	1	2874	G	N3-C4-N9	8.11	130.86	126.00
1	6	316	A	O5'-P-OP1	-8.11	98.41	105.70
36	5	562	C	N3-C4-C5	8.10	125.14	121.90
36	5	2983	C	O5'-P-OP1	-8.10	98.41	105.70
36	5	3271	G	C8-N9-C1'	-8.10	116.46	127.00
1	2	1778	G	C2-N3-C4	8.10	115.95	111.90
36	1	419	G	C6-N1-C2	-8.10	120.24	125.10
36	1	2353	G	C4-C5-N7	8.10	114.04	110.80
36	1	2572	C	N3-C2-O2	-8.10	116.23	121.90
36	1	2756	C	C6-N1-C2	-8.10	117.06	120.30
38	4	12	A	O5'-P-OP1	-8.10	98.41	105.70
1	6	1524	A	N9-C4-C5	8.10	109.04	105.80
36	5	1898	G	C6-C5-N7	8.10	135.26	130.40
36	5	881	C	C2-N3-C4	8.10	123.95	119.90
1	6	6	G	N1-C6-O6	8.10	124.76	119.90
1	6	1101	G	N1-C2-N3	8.10	128.76	123.90
36	5	1905	G	C4-C5-N7	-8.10	107.56	110.80
36	5	3314	A	N1-C2-N3	8.10	133.35	129.30
37	7	56	A	C5-N7-C8	-8.10	99.85	103.90
36	1	978	G	C5-C6-O6	-8.10	123.74	128.60
36	1	1439	U	N3-C2-O2	-8.10	116.53	122.20
36	1	3262	U	C6-N1-C2	-8.10	116.14	121.00
1	6	566	C	C5-C6-N1	-8.10	116.95	121.00
36	5	651	G	N3-C4-N9	8.10	130.86	126.00
36	5	2181	C	N3-C2-O2	8.10	127.57	121.90
36	1	591	G	N3-C4-N9	8.09	130.86	126.00
1	6	597	G	C5-C6-O6	-8.09	123.74	128.60
1	6	636	A	C5-N7-C8	8.09	107.95	103.90
46	19	129	ARG	NE-CZ-NH1	8.09	124.35	120.30
36	5	1852	G	C5-N7-C8	-8.09	100.25	104.30
36	1	292	U	C5-C6-N1	-8.09	118.66	122.70
36	5	679	U	C5-C4-O4	8.09	130.75	125.90
36	5	1148	G	C4-C5-C6	8.09	123.65	118.80
36	1	2956	A	C8-N9-C4	-8.09	102.56	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3208	G	N9-C4-C5	-8.09	102.16	105.40
37	3	91	G	C8-N9-C4	-8.09	103.16	106.40
1	6	321	C	C2-N1-C1'	8.09	127.70	118.80
36	1	2875	U	N3-C4-C5	-8.09	109.75	114.60
38	4	20	U	C5-C6-N1	-8.09	118.66	122.70
36	5	1755	C	C5-C6-N1	8.09	125.04	121.00
36	5	3050	U	C4-C5-C6	8.09	124.55	119.70
36	5	656	A	C6-N1-C2	-8.09	113.75	118.60
36	5	2698	G	N3-C4-C5	8.09	132.64	128.60
36	1	41	G	O4'-C1'-N9	8.08	114.67	108.20
36	1	2610	G	O5'-P-OP1	8.08	120.40	110.70
36	5	51	A	C6-C5-N7	-8.08	126.64	132.30
36	1	30	G	C5-C6-N1	8.08	115.54	111.50
36	1	57	A	C4-C5-C6	8.08	121.04	117.00
36	1	2172	A	N1-C6-N6	8.08	123.45	118.60
36	1	2624	G	N1-C6-O6	8.08	124.75	119.90
36	1	2819	A	C5-C6-N1	8.08	121.74	117.70
36	1	2827	U	N3-C4-C5	-8.08	109.75	114.60
1	6	388	G	C2-N3-C4	-8.08	107.86	111.90
1	6	1778	G	C6-N1-C2	-8.08	120.25	125.10
7	s5	92	ARG	NE-CZ-NH1	8.08	124.34	120.30
36	5	1386	A	C8-N9-C4	-8.08	102.57	105.80
36	5	2837	A	C8-N9-C4	8.08	109.03	105.80
36	5	3376	A	C6-N1-C2	-8.08	113.75	118.60
37	7	10	C	N1-C2-O2	8.08	123.75	118.90
1	6	1019	A	C8-N9-C4	8.08	109.03	105.80
1	6	1580	C	O5'-P-OP1	-8.08	98.43	105.70
36	5	591	G	N3-C4-N9	8.08	130.85	126.00
37	7	102	A	C4-C5-N7	8.08	114.74	110.70
36	1	399	A	C4-C5-C6	-8.08	112.96	117.00
36	1	1449	A	C2-N3-C4	8.08	114.64	110.60
1	6	583	C	C5-C6-N1	8.08	125.04	121.00
36	5	1903	U	OP1-P-OP2	-8.08	107.48	119.60
36	1	697	A	N7-C8-N9	-8.08	109.76	113.80
36	1	2606	G	N1-C2-N2	-8.08	108.93	116.20
36	1	1905	G	OP2-P-O3'	8.08	122.97	105.20
36	1	2811	A	C8-N9-C4	-8.08	102.57	105.80
36	5	651	G	C4-C5-C6	8.08	123.65	118.80
36	5	1592	G	C4-C5-C6	8.08	123.65	118.80
36	5	3387	U	N3-C4-C5	-8.08	109.75	114.60
46	19	129	ARG	NE-CZ-NH2	-8.08	116.26	120.30
36	1	264	G	C4-C5-N7	-8.07	107.57	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2605	G	N3-C4-N9	-8.07	121.16	126.00
1	6	1476	C	C6-N1-C2	-8.07	117.07	120.30
1	6	1650	U	N3-C4-O4	8.07	125.05	119.40
36	1	2702	A	O4'-C1'-N9	-8.07	101.74	108.20
1	6	1145	U	N3-C4-O4	8.07	125.05	119.40
36	5	2635	A	C8-N9-C4	-8.07	102.57	105.80
36	5	371	G	C6-C5-N7	8.07	135.24	130.40
36	5	2858	U	N3-C4-C5	-8.07	109.76	114.60
36	5	1375	G	N3-C4-N9	8.07	130.84	126.00
36	5	1434	G	C5-N7-C8	-8.07	100.27	104.30
36	5	1080	A	N7-C8-N9	-8.07	109.77	113.80
36	5	2597	U	N3-C2-O2	-8.07	116.55	122.20
1	2	1490	C	C2-N1-C1'	8.07	127.67	118.80
36	1	939	U	N3-C4-O4	8.07	125.05	119.40
36	1	1907	C	C5-C6-N1	-8.07	116.97	121.00
36	5	1120	A	N1-C2-N3	8.07	133.33	129.30
36	5	2350	C	O5'-P-OP2	-8.07	98.44	105.70
36	1	102	C	OP2-P-O3'	8.06	122.94	105.20
36	1	583	G	C6-C5-N7	8.06	135.24	130.40
1	6	779	U	N1-C2-O2	8.06	128.45	122.80
1	6	1479	A	N1-C6-N6	8.06	123.44	118.60
36	1	93	C	C5-C6-N1	8.06	125.03	121.00
36	1	421	G	N3-C4-C5	-8.06	124.57	128.60
36	1	1119	C	N3-C4-C5	-8.06	118.67	121.90
36	5	2635	A	C2-N3-C4	8.06	114.63	110.60
38	8	19	C	O5'-P-OP2	-8.06	98.44	105.70
36	1	592	A	C4-C5-N7	8.06	114.73	110.70
1	6	804	A	N1-C6-N6	8.06	123.44	118.60
36	5	2423	U	O5'-P-OP2	-8.06	98.44	105.70
1	2	49	C	C6-N1-C2	-8.06	117.08	120.30
1	2	1272	U	N3-C4-C5	-8.06	109.76	114.60
36	1	2289	U	N3-C2-O2	-8.06	116.56	122.20
36	1	2939	G	C6-N1-C2	-8.06	120.26	125.10
36	1	3145	C	N3-C4-C5	-8.06	118.68	121.90
1	6	765	G	C8-N9-C4	8.06	109.62	106.40
1	6	1004	U	C5-C6-N1	-8.06	118.67	122.70
1	6	1525	A	C5-C6-N1	8.06	121.73	117.70
1	6	1584	G	N1-C6-O6	8.06	124.74	119.90
36	5	860	G	C5-C6-O6	-8.06	123.76	128.60
1	6	1753	A	C5-C6-N1	8.06	121.73	117.70
36	1	1610	G	N1-C6-O6	8.06	124.73	119.90
36	1	2908	G	C5-N7-C8	-8.06	100.27	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3062	G	C5-C6-O6	-8.06	123.77	128.60
36	5	339	C	N1-C2-O2	-8.06	114.06	118.90
36	5	569	A	N1-C6-N6	8.06	123.43	118.60
36	5	877	C	C6-N1-C2	8.06	123.52	120.30
36	5	1099	A	C8-N9-C4	8.06	109.02	105.80
36	1	2423	U	N3-C4-C5	-8.06	109.77	114.60
36	5	430	U	C5-C6-N1	-8.05	118.67	122.70
36	5	2876	C	N3-C2-O2	-8.05	116.26	121.90
36	1	193	C	N3-C4-N4	8.05	123.64	118.00
36	1	710	A	N1-C6-N6	8.05	123.43	118.60
36	1	1333	C	N1-C2-O2	-8.05	114.07	118.90
36	1	2257	C	C6-N1-C2	-8.05	117.08	120.30
36	5	3314	A	C4-C5-C6	8.05	121.03	117.00
36	5	1148	G	C8-N9-C1'	-8.05	116.53	127.00
36	5	1148	G	N9-C4-C5	-8.05	102.18	105.40
36	5	3050	U	N1-C2-N3	8.05	119.73	114.90
36	1	2899	C	N3-C2-O2	-8.05	116.27	121.90
36	5	1910	A	N1-C6-N6	8.05	123.43	118.60
36	5	2303	A	N9-C4-C5	-8.05	102.58	105.80
36	5	2318	U	C6-N1-C2	8.05	125.83	121.00
36	1	394	G	C4-C5-N7	-8.05	107.58	110.80
36	1	1450	G	N3-C2-N2	-8.04	114.27	119.90
1	6	449	C	N1-C2-O2	8.05	123.73	118.90
36	5	3111	U	N1-C2-O2	8.05	128.43	122.80
36	1	2701	U	C4-C5-C6	8.04	124.53	119.70
36	1	2826	U	N3-C4-O4	-8.04	113.77	119.40
36	5	2309	A	N1-C2-N3	8.04	133.32	129.30
36	5	2602	G	N1-C6-O6	8.04	124.73	119.90
36	5	2828	G	OP2-P-O3'	8.04	122.90	105.20
36	5	2836	C	C4-C5-C6	8.04	121.42	117.40
37	7	5	G	C5-C6-N1	8.05	115.52	111.50
37	7	14	U	C5-C6-N1	-8.04	118.68	122.70
38	8	138	A	N1-C2-N3	8.04	133.32	129.30
1	2	577	G	C5-C6-O6	-8.04	123.78	128.60
36	1	927	C	OP2-P-O3'	8.04	122.90	105.20
36	1	609	G	C8-N9-C1'	-8.04	116.55	127.00
36	1	2696	A	O5'-P-OP2	-8.04	98.46	105.70
36	1	2979	U	O4'-C1'-N1	8.04	114.63	108.20
38	4	28	C	C6-N1-C2	-8.04	117.08	120.30
1	6	1456	C	C6-N1-C2	-8.04	117.08	120.30
36	5	877	C	N3-C4-C5	8.04	125.12	121.90
36	5	1124	U	OP2-P-O3'	8.04	122.89	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1368	U	N3-C2-O2	8.04	127.83	122.20
36	5	1374	G	C2-N3-C4	-8.04	107.88	111.90
36	5	2908	G	C8-N9-C4	-8.04	103.18	106.40
1	6	175	G	C6-C5-N7	-8.04	125.58	130.40
1	2	311	U	N3-C2-O2	-8.04	116.57	122.20
36	1	1431	G	C5-C6-N1	8.04	115.52	111.50
36	5	3024	A	N3-C4-C5	8.04	132.43	126.80
36	5	3144	G	C6-C5-N7	-8.04	125.58	130.40
36	1	2802	A	C2-N3-C4	-8.04	106.58	110.60
38	4	9	A	O5'-P-OP1	8.04	120.34	110.70
1	6	1284	C	N3-C4-C5	-8.03	118.69	121.90
36	5	645	A	C5-C6-N1	8.04	121.72	117.70
36	5	2799	A	C8-N9-C4	-8.04	102.59	105.80
36	5	3124	G	N7-C8-N9	8.04	117.12	113.10
36	1	2953	U	C4-C5-C6	8.03	124.52	119.70
36	1	70	A	C6-N1-C2	-8.03	113.78	118.60
36	1	1192	C	C2-N3-C4	8.03	123.92	119.90
36	1	1194	G	C8-N9-C4	-8.03	103.19	106.40
1	2	1584	G	C8-N9-C4	8.03	109.61	106.40
36	1	680	G	N1-C6-O6	8.03	124.72	119.90
36	1	797	U	OP1-P-OP2	8.03	131.65	119.60
36	1	88	A	C8-N9-C4	8.03	109.01	105.80
36	1	1116	G	C8-N9-C4	-8.03	103.19	106.40
36	1	1345	G	N7-C8-N9	8.03	117.11	113.10
36	5	710	A	C8-N9-C4	-8.03	102.59	105.80
36	1	2331	C	N3-C2-O2	-8.03	116.28	121.90
36	5	1793	C	C6-N1-C1'	-8.03	111.17	120.80
36	5	2927	C	C5-C4-N4	-8.03	114.58	120.20
36	1	3288	G	N3-C4-C5	8.03	132.61	128.60
38	4	52	A	N1-C2-N3	8.03	133.31	129.30
36	5	3308	C	N3-C2-O2	-8.03	116.28	121.90
36	5	3382	U	N1-C2-O2	8.03	128.42	122.80
36	1	38	U	O5'-P-OP1	-8.02	98.48	105.70
36	1	1417	G	C4-C5-N7	8.02	114.01	110.80
36	5	565	U	C5-C6-N1	-8.02	118.69	122.70
36	5	1546	A	C6-N1-C2	-8.02	113.79	118.60
36	1	669	U	O5'-P-OP2	-8.02	98.48	105.70
36	1	2112	U	P-O3'-C3'	8.02	129.33	119.70
36	1	2406	C	N3-C4-C5	-8.02	118.69	121.90
36	1	3188	G	C8-N9-C4	8.02	109.61	106.40
1	6	940	A	N1-C6-N6	-8.02	113.79	118.60
1	6	1212	G	N1-C6-O6	-8.02	115.09	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	353	G	N3-C4-N9	-8.02	121.19	126.00
36	5	2774	C	C6-N1-C2	-8.02	117.09	120.30
1	2	1212	G	C5-C6-O6	-8.02	123.79	128.60
36	1	2288	G	O5'-P-OP1	-8.02	98.48	105.70
36	1	2325	G	C4-C5-C6	8.02	123.61	118.80
1	6	140	A	N7-C8-N9	8.02	117.81	113.80
1	6	423	G	N3-C4-N9	-8.02	121.19	126.00
1	6	633	U	N1-C2-N3	8.02	119.71	114.90
36	5	816	A	C5-N7-C8	8.02	107.91	103.90
36	5	1152	G	O5'-P-OP1	-8.02	98.48	105.70
36	5	2757	U	N1-C2-N3	8.02	119.71	114.90
36	5	3227	A	C6-C5-N7	-8.02	126.69	132.30
36	1	595	G	C8-N9-C1'	-8.02	116.58	127.00
36	1	2330	C	N3-C2-O2	-8.02	116.29	121.90
36	5	2404	A	C8-N9-C4	-8.02	102.59	105.80
36	1	1500	G	C8-N9-C4	8.02	109.61	106.40
36	5	3172	A	N1-C6-N6	8.02	123.41	118.60
36	1	637	C	P-O3'-C3'	8.01	129.31	119.70
36	5	631	U	O5'-P-OP1	8.01	120.32	110.70
36	5	874	U	C4-C5-C6	8.01	124.51	119.70
36	5	2778	G	N1-C2-N2	8.01	123.41	116.20
1	6	14	C	C6-N1-C2	-8.01	117.09	120.30
36	5	1535	A	N1-C6-N6	-8.01	113.79	118.60
36	5	1894	U	C2-N3-C4	-8.01	122.19	127.00
1	2	969	C	C6-N1-C2	-8.01	117.10	120.30
1	6	1178	G	N1-C6-O6	-8.01	115.09	119.90
36	5	1128	U	C2-N3-C4	-8.01	122.19	127.00
38	8	142	C	C6-N1-C2	-8.01	117.09	120.30
36	1	356	C	N3-C4-N4	8.01	123.61	118.00
36	1	2994	A	N1-C2-N3	8.01	133.30	129.30
38	4	31	G	C8-N9-C4	8.01	109.60	106.40
36	5	1473	G	C8-N9-C4	8.01	109.60	106.40
36	5	2692	A	N1-C6-N6	-8.01	113.80	118.60
36	5	2703	A	O5'-P-OP1	-8.01	98.49	105.70
36	5	2741	C	N3-C4-C5	-8.01	118.70	121.90
36	5	3335	A	C2-N3-C4	-8.01	106.59	110.60
37	7	99	G	N9-C4-C5	8.01	108.60	105.40
1	6	1191	U	C6-N1-C2	-8.01	116.19	121.00
36	1	594	U	C5-C6-N1	-8.01	118.70	122.70
36	1	1313	G	N3-C4-N9	-8.01	121.20	126.00
36	1	1453	A	C4-C5-C6	8.01	121.00	117.00
36	1	2399	A	C5-C6-N1	8.01	121.70	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2772	C	N1-C2-O2	8.01	123.70	118.90
36	1	3228	C	O5'-P-OP2	-8.01	98.49	105.70
36	5	677	A	C5-N7-C8	-8.01	99.90	103.90
36	5	1116	G	OP1-P-OP2	8.01	131.61	119.60
36	5	1182	A	O5'-P-OP2	-8.01	98.49	105.70
36	5	1851	G	N7-C8-N9	8.01	117.10	113.10
36	5	1900	A	C5-N7-C8	-8.01	99.90	103.90
36	5	2333	C	C6-N1-C2	8.01	123.50	120.30
36	5	2334	U	C2-N3-C4	-8.01	122.20	127.00
36	1	1139	G	C8-N9-C1'	8.00	137.41	127.00
36	1	1202	A	N1-C6-N6	8.00	123.40	118.60
37	3	88	G	C5-C6-N1	8.00	115.50	111.50
1	2	615	A	N1-C6-N6	-8.00	113.80	118.60
36	1	1807	G	C5-C6-O6	-8.00	123.80	128.60
36	1	1926	C	O5'-P-OP2	-8.00	98.50	105.70
1	6	359	A	N1-C2-N3	-8.00	125.30	129.30
1	6	1498	G	C6-C5-N7	-8.00	125.60	130.40
36	5	321	C	C2-N1-C1'	8.00	127.60	118.80
36	5	935	U	C2-N1-C1'	8.00	127.30	117.70
36	5	1902	G	C8-N9-C1'	-8.00	116.60	127.00
36	5	2944	U	N1-C2-N3	8.00	119.70	114.90
36	1	1169	A	N1-C6-N6	-8.00	113.80	118.60
36	1	1180	A	N7-C8-N9	-8.00	109.80	113.80
36	1	1358	C	C6-N1-C2	-8.00	117.10	120.30
36	1	1789	G	N1-C6-O6	-8.00	115.10	119.90
36	5	507	U	N3-C4-C5	-8.00	109.80	114.60
36	5	646	A	C5-C6-N6	8.00	130.10	123.70
36	5	2863	G	C2-N3-C4	-8.00	107.90	111.90
36	1	92	G	N9-C4-C5	-8.00	102.20	105.40
1	6	1577	A	C2-N3-C4	-8.00	106.60	110.60
36	5	1010	G	C4-C5-N7	8.00	114.00	110.80
36	5	2929	C	N3-C4-C5	8.00	125.10	121.90
37	7	49	G	C5-C6-O6	-8.00	123.80	128.60
36	1	1497	C	N3-C4-C5	-7.99	118.70	121.90
36	5	1050	U	C4-C5-C6	7.99	124.50	119.70
36	5	1111	U	C6-N1-C2	7.99	125.80	121.00
36	5	3285	C	C6-N1-C1'	-7.99	111.21	120.80
38	8	4	C	N1-C2-N3	7.99	124.80	119.20
1	6	1025	A	C5-C6-N6	-7.99	117.31	123.70
36	5	2926	A	N1-C2-N3	7.99	133.30	129.30
36	1	981	U	C5-C6-N1	7.99	126.70	122.70
1	6	1445	G	N3-C4-C5	7.99	132.59	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2978	U	N3-C2-O2	-7.99	116.61	122.20
36	5	3265	C	N1-C2-O2	-7.99	114.11	118.90
36	1	1306	G	C5-N7-C8	-7.99	100.31	104.30
36	1	3260	G	C6-C5-N7	-7.99	125.61	130.40
1	6	866	G	C5-C6-O6	-7.99	123.81	128.60
1	6	1536	G	C8-N9-C1'	-7.99	116.61	127.00
36	5	1194	G	C5-N7-C8	-7.99	100.31	104.30
1	6	1614	A	C4-C5-N7	7.99	114.69	110.70
36	1	2391	G	C8-N9-C4	7.99	109.59	106.40
36	5	45	A	C2-N3-C4	-7.99	106.61	110.60
36	5	2352	A	C5-C6-N1	7.99	121.69	117.70
37	7	101	G	C5-C6-N1	-7.99	107.51	111.50
36	1	1153	A	C4-C5-C6	7.98	120.99	117.00
36	1	3172	A	O5'-P-OP2	-7.98	98.52	105.70
1	6	1768	G	N1-C6-O6	7.98	124.69	119.90
36	5	2122	G	N3-C4-C5	7.98	132.59	128.60
36	5	2793	G	N3-C4-C5	7.98	132.59	128.60
36	5	2936	A	C5-C6-N6	-7.98	117.31	123.70
36	1	936	A	N1-C2-N3	-7.98	125.31	129.30
36	5	874	U	C5-C4-O4	7.98	130.69	125.90
36	5	1344	G	N3-C2-N2	-7.98	114.31	119.90
36	5	1433	A	C4-C5-C6	7.98	120.99	117.00
36	5	1914	G	C8-N9-C4	-7.98	103.21	106.40
37	7	45	A	C5-C6-N6	7.98	130.08	123.70
36	1	2421	U	N1-C2-N3	7.98	119.69	114.90
1	6	1592	A	C2-N3-C4	-7.98	106.61	110.60
36	5	2940	A	N1-C6-N6	7.98	123.39	118.60
1	2	1761	U	C5-C4-O4	7.98	130.69	125.90
36	1	1148	G	C5-C6-N1	7.98	115.49	111.50
36	1	2780	A	C8-N9-C4	7.98	108.99	105.80
1	6	864	U	C6-N1-C2	-7.98	116.21	121.00
36	1	18	G	N3-C2-N2	-7.97	114.32	119.90
37	3	69	C	C6-N1-C2	-7.97	117.11	120.30
38	4	110	C	C6-N1-C2	7.97	123.49	120.30
1	6	1523	G	N3-C4-C5	-7.97	124.61	128.60
36	5	1613	A	O5'-P-OP2	-7.97	98.52	105.70
36	1	1177	G	N3-C4-N9	7.97	130.78	126.00
38	4	46	G	N3-C4-N9	7.97	130.78	126.00
36	5	2872	A	C6-C5-N7	7.97	137.88	132.30
37	7	10	C	C6-N1-C1'	-7.97	111.23	120.80
36	5	2351	U	N3-C2-O2	-7.97	116.62	122.20
36	1	1161	G	N3-C4-C5	-7.97	124.61	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2190	U	N1-C2-N3	7.97	119.68	114.90
36	1	2940	A	N1-C6-N6	-7.97	113.82	118.60
1	6	120	U	N1-C2-N3	7.97	119.68	114.90
1	6	431	C	C2-N1-C1'	-7.97	110.03	118.80
36	5	206	G	C2-N3-C4	7.97	115.89	111.90
36	5	728	G	C4-C5-N7	7.97	113.99	110.80
36	5	796	U	C2-N1-C1'	7.97	127.26	117.70
36	5	2166	A	C2-N3-C4	-7.97	106.61	110.60
36	5	3004	C	N1-C2-O2	-7.97	114.12	118.90
36	5	1523	U	C5-C4-O4	-7.97	121.12	125.90
36	1	349	A	N9-C4-C5	7.97	108.99	105.80
36	1	1325	U	O5'-P-OP2	-7.97	98.53	105.70
36	1	2371	G	C6-N1-C2	-7.97	120.32	125.10
36	5	957	C	N3-C4-C5	-7.97	118.71	121.90
36	5	1374	G	N3-C4-N9	-7.97	121.22	126.00
36	5	2905	U	OP2-P-O3'	7.97	122.72	105.20
36	5	3026	G	C4-C5-C6	7.97	123.58	118.80
36	1	645	A	N1-C6-N6	-7.96	113.82	118.60
36	1	714	G	C8-N9-C4	7.96	109.59	106.40
36	1	2703	A	C4-C5-N7	-7.96	106.72	110.70
36	1	3060	C	C6-N1-C2	7.96	123.48	120.30
38	4	1	A	C8-N9-C4	7.96	108.99	105.80
1	6	1604	U	C6-N1-C2	-7.96	116.22	121.00
1	6	1750	A	O5'-P-OP2	-7.96	98.53	105.70
36	5	845	G	C5-C6-O6	7.96	133.38	128.60
36	5	1147	G	C6-C5-N7	-7.96	125.62	130.40
36	5	2971	A	N9-C4-C5	7.96	108.99	105.80
38	8	122	U	C6-N1-C2	-7.96	116.22	121.00
36	1	1379	G	N1-C2-N3	7.96	128.68	123.90
36	5	2986	U	N3-C4-O4	7.96	124.97	119.40
1	2	1615	C	C2-N1-C1'	7.96	127.56	118.80
36	1	2659	G	N1-C6-O6	7.96	124.68	119.90
36	1	2811	A	C4-N9-C1'	7.96	140.63	126.30
1	6	1623	C	C6-N1-C2	-7.96	117.12	120.30
36	5	529	A	O5'-P-OP2	7.96	120.25	110.70
36	5	755	A	O5'-P-OP1	-7.96	98.53	105.70
36	5	803	C	C2-N1-C1'	7.96	127.56	118.80
36	5	2684	C	N1-C2-N3	7.96	124.77	119.20
36	5	3229	G	N3-C2-N2	7.96	125.47	119.90
38	8	31	G	C4-C5-N7	-7.96	107.61	110.80
36	1	873	C	N3-C4-N4	7.96	123.57	118.00
36	5	2644	C	N3-C4-C5	-7.96	118.72	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	57	A	C2-N3-C4	-7.96	106.62	110.60
1	6	1027	A	N1-C2-N3	7.96	133.28	129.30
36	5	3124	G	C2-N3-C4	-7.96	107.92	111.90
36	1	1505	C	OP2-P-O3'	7.96	122.70	105.20
36	1	2871	G	N7-C8-N9	7.96	117.08	113.10
36	5	1303	A	C5-N7-C8	-7.96	99.92	103.90
37	7	26	C	N3-C4-N4	7.96	123.57	118.00
1	2	453	U	C2-N1-C1'	7.96	127.25	117.70
36	5	2116	G	N7-C8-N9	7.96	117.08	113.10
36	5	3067	C	C2-N3-C4	-7.96	115.92	119.90
37	7	85	G	C5-N7-C8	-7.96	100.32	104.30
1	2	1460	A	N1-C6-N6	-7.95	113.83	118.60
36	1	2121	G	C6-C5-N7	7.95	135.17	130.40
36	1	2138	A	C4-C5-C6	7.95	120.98	117.00
1	6	1121	C	N1-C2-O2	7.95	123.67	118.90
1	6	1351	G	N1-C6-O6	-7.95	115.13	119.90
36	5	776	U	N3-C2-O2	-7.95	116.63	122.20
36	1	1313	G	C5-N7-C8	-7.95	100.33	104.30
36	1	3328	G	C5-C6-O6	-7.95	123.83	128.60
36	5	1506	A	N1-C6-N6	-7.95	113.83	118.60
36	5	2789	U	N3-C2-O2	7.95	127.77	122.20
36	1	236	G	O5'-P-OP2	-7.95	98.55	105.70
36	1	342	A	C5-C6-N1	-7.95	113.72	117.70
36	1	1725	C	N3-C4-C5	-7.95	118.72	121.90
36	5	2283	G	C8-N9-C4	7.95	109.58	106.40
37	7	40	C	C6-N1-C2	7.95	123.48	120.30
36	5	884	A	C4-C5-C6	7.95	120.97	117.00
36	5	2874	G	C4-C5-N7	-7.95	107.62	110.80
36	5	3122	A	OP2-P-O3'	7.95	122.68	105.20
36	1	719	U	N3-C2-O2	7.95	127.76	122.20
36	5	1001	G	O5'-P-OP2	7.95	120.23	110.70
1	2	342	C	C4-C5-C6	7.94	121.37	117.40
1	2	1299	G	N3-C4-N9	7.94	130.76	126.00
36	1	1115	G	O5'-P-OP2	-7.94	98.55	105.70
36	1	1145	G	O5'-P-OP2	-7.94	98.55	105.70
36	1	1412	G	C6-C5-N7	-7.94	125.63	130.40
36	1	1803	C	C6-N1-C2	7.94	123.48	120.30
52	M6	125	ARG	NE-CZ-NH1	-7.94	116.33	120.30
36	5	507	U	N3-C4-O4	7.94	124.96	119.40
36	5	2665	U	C4-C5-C6	-7.94	114.94	119.70
36	1	639	G	C6-C5-N7	-7.94	125.64	130.40
36	1	1196	C	O5'-P-OP1	-7.94	98.55	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2887	A	OP2-P-O3'	7.94	122.67	105.20
36	5	1054	A	N7-C8-N9	-7.94	109.83	113.80
36	1	645	A	O5'-P-OP1	-7.94	98.56	105.70
36	1	2422	C	N3-C4-N4	-7.94	112.44	118.00
36	1	2950	G	O4'-C1'-N9	7.94	114.55	108.20
36	1	3001	C	C6-N1-C2	7.94	123.48	120.30
1	6	789	A	N1-C6-N6	-7.94	113.84	118.60
36	5	371	G	C8-N9-C1'	7.94	137.32	127.00
65	n9	23	LYS	C-N-CD	7.94	145.07	128.40
1	2	111	U	C2-N1-C1'	7.94	127.22	117.70
36	1	1377	G	C6-C5-N7	-7.94	125.64	130.40
36	1	1907	C	C4-C5-C6	7.94	121.37	117.40
36	1	2634	U	N3-C2-O2	-7.94	116.64	122.20
36	5	798	G	C5-C6-N1	-7.94	107.53	111.50
36	5	2702	A	N1-C2-N3	7.94	133.27	129.30
36	1	86	G	O5'-P-OP1	7.94	120.22	110.70
36	1	1635	G	C6-C5-N7	-7.94	125.64	130.40
37	3	93	C	C5-C6-N1	-7.94	117.03	121.00
36	5	1130	A	C2-N3-C4	7.94	114.57	110.60
36	5	2411	U	C2-N3-C4	-7.94	122.24	127.00
36	1	104	G	C4-C5-N7	7.93	113.97	110.80
36	1	766	U	C6-N1-C2	-7.93	116.24	121.00
36	1	888	A	O5'-P-OP1	-7.93	98.56	105.70
36	1	1604	G	C8-N9-C4	-7.93	103.23	106.40
36	1	3208	G	N1-C2-N2	-7.93	109.06	116.20
36	5	595	G	C4-C5-C6	7.93	123.56	118.80
36	5	934	G	C6-C5-N7	-7.93	125.64	130.40
36	5	1049	C	C5-C6-N1	7.93	124.97	121.00
36	5	3096	C	OP2-P-O3'	7.93	122.66	105.20
36	1	860	G	C4-C5-N7	7.93	113.97	110.80
36	5	200	C	C6-N1-C1'	-7.93	111.28	120.80
1	6	1107	G	C5-C6-O6	7.93	133.36	128.60
36	1	955	U	O5'-P-OP2	-7.93	98.56	105.70
1	6	142	G	N1-C6-O6	-7.93	115.14	119.90
1	6	1572	G	O5'-P-OP2	-7.93	98.56	105.70
37	7	35	C	N3-C4-C5	7.93	125.07	121.90
36	1	2819	A	O5'-P-OP2	-7.93	98.56	105.70
36	5	776	U	C4-C5-C6	7.93	124.46	119.70
36	5	1608	C	O5'-P-OP1	-7.93	98.56	105.70
36	1	1168	U	OP2-P-O3'	7.93	122.64	105.20
36	1	1393	A	N9-C4-C5	7.93	108.97	105.80
36	5	832	G	C4-C5-N7	-7.93	107.63	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1840	U	N3-C4-C5	7.93	119.36	114.60
36	5	2893	C	O5'-P-OP1	-7.93	98.56	105.70
36	1	585	A	N9-C4-C5	7.92	108.97	105.80
36	1	1115	G	C4-N9-C1'	7.92	136.80	126.50
36	1	1725	C	C6-N1-C2	-7.92	117.13	120.30
37	3	78	U	C6-N1-C2	-7.92	116.25	121.00
1	6	1050	G	N3-C4-N9	-7.92	121.25	126.00
1	6	1524	A	N7-C8-N9	7.92	117.76	113.80
1	6	1537	C	C2-N3-C4	7.92	123.86	119.90
1	6	1604	U	N3-C4-C5	-7.92	109.84	114.60
36	5	1453	A	N1-C2-N3	7.92	133.26	129.30
36	5	3078	U	N3-C2-O2	-7.92	116.65	122.20
36	1	718	G	N3-C4-C5	7.92	132.56	128.60
1	6	405	C	C6-N1-C2	-7.92	117.13	120.30
36	5	2986	U	N1-C2-O2	-7.92	117.25	122.80
1	2	50	C	N1-C2-O2	7.92	123.65	118.90
36	1	2874	G	C8-N9-C1'	-7.92	116.70	127.00
1	6	1594	G	N1-C6-O6	7.92	124.65	119.90
36	5	920	A	C2-N3-C4	-7.92	106.64	110.60
36	5	1537	A	C5-C6-N1	-7.92	113.74	117.70
36	5	3207	U	C6-N1-C1'	7.92	132.29	121.20
36	1	838	G	N3-C4-C5	7.92	132.56	128.60
36	1	1385	C	C2-N1-C1'	-7.92	110.09	118.80
36	1	2633	U	C5-C4-O4	7.92	130.65	125.90
36	5	1136	A	C6-N1-C2	-7.92	113.85	118.60
36	5	2981	U	N1-C2-N3	7.92	119.65	114.90
36	1	1880	U	C5-C6-N1	-7.92	118.74	122.70
36	1	1149	G	C4-N9-C1'	7.92	136.79	126.50
36	1	1720	U	C6-N1-C2	-7.92	116.25	121.00
38	4	12	A	C6-C5-N7	-7.92	126.76	132.30
1	6	1002	G	N3-C4-N9	-7.92	121.25	126.00
36	5	2895	G	N3-C4-C5	-7.92	124.64	128.60
36	5	3009	G	O5'-P-OP2	-7.92	98.58	105.70
36	1	587	U	N1-C2-O2	-7.92	117.26	122.80
36	5	3115	C	C2-N1-C1'	-7.92	110.09	118.80
1	2	561	G	N1-C6-O6	7.91	124.65	119.90
36	1	913	A	N1-C6-N6	7.91	123.35	118.60
38	4	53	A	N3-C4-C5	-7.91	121.26	126.80
36	5	2746	A	C2-N3-C4	-7.91	106.64	110.60
36	5	2841	G	C5-C6-O6	7.91	133.35	128.60
36	1	877	C	N1-C2-O2	7.91	123.65	118.90
1	6	209	U	N1-C2-O2	-7.91	117.26	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	35	A	N1-C2-N3	7.91	133.26	129.30
36	5	71	A	C4-C5-N7	-7.91	106.74	110.70
36	5	2877	G	N3-C4-N9	7.91	130.75	126.00
36	1	331	G	C4-C5-N7	-7.91	107.64	110.80
36	1	1363	A	N1-C6-N6	7.91	123.35	118.60
36	1	1413	G	C8-N9-C4	7.91	109.56	106.40
1	6	1528	U	N3-C2-O2	-7.91	116.66	122.20
36	5	588	G	N3-C4-N9	7.91	130.75	126.00
36	1	224	C	C5-C6-N1	7.91	124.95	121.00
36	1	979	U	C5-C4-O4	7.91	130.65	125.90
36	1	1501	U	C2-N1-C1'	7.91	127.19	117.70
36	1	3278	C	N3-C2-O2	-7.91	116.36	121.90
36	5	1134	G	C4-C5-N7	-7.91	107.64	110.80
1	6	1753	A	C6-N1-C2	-7.91	113.86	118.60
36	5	2388	U	C6-N1-C2	7.91	125.74	121.00
36	1	2759	U	N1-C2-O2	7.91	128.33	122.80
36	5	755	A	C2-N3-C4	-7.91	106.65	110.60
36	5	1845	G	N3-C4-N9	7.91	130.74	126.00
1	6	1393	C	N3-C4-C5	-7.90	118.74	121.90
36	5	848	A	C6-C5-N7	-7.90	126.77	132.30
37	7	84	A	O5'-P-OP1	-7.90	98.59	105.70
36	1	3127	A	N1-C2-N3	7.90	133.25	129.30
36	1	3176	G	C5-C6-O6	-7.90	123.86	128.60
52	m6	28	LEU	CB-CG-CD1	-7.90	97.56	111.00
36	1	41	G	C2-N3-C4	7.90	115.85	111.90
1	6	1129	U	C5-C4-O4	7.90	130.64	125.90
36	5	714	G	O5'-P-OP1	-7.90	98.59	105.70
36	5	2199	G	N3-C2-N2	-7.90	114.37	119.90
36	5	1924	U	N1-C2-O2	-7.90	117.27	122.80
36	1	2607	G	O5'-P-OP1	-7.90	98.59	105.70
36	5	857	G	N3-C2-N2	-7.90	114.37	119.90
36	1	1371	G	C8-N9-C4	7.89	109.56	106.40
36	1	2362	C	N1-C2-O2	7.89	123.64	118.90
36	1	2661	G	N1-C6-O6	7.89	124.64	119.90
36	1	2838	A	C2-N3-C4	-7.89	106.65	110.60
36	1	2882	U	N3-C4-O4	-7.89	113.87	119.40
1	6	43	A	N9-C4-C5	-7.89	102.64	105.80
1	6	96	G	C6-C5-N7	-7.89	125.66	130.40
1	6	1158	C	C2-N1-C1'	7.89	127.48	118.80
36	5	1399	A	C5-N7-C8	-7.89	99.95	103.90
36	5	2409	G	OP1-P-OP2	7.89	131.44	119.60
36	5	3020	U	N1-C2-O2	-7.89	117.27	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3344	A	N1-C6-N6	7.89	123.33	118.60
1	6	233	C	C6-N1-C2	-7.89	117.14	120.30
1	6	415	C	N3-C4-N4	-7.89	112.48	118.00
36	5	1198	C	N1-C2-O2	7.89	123.64	118.90
36	5	1295	G	C5-N7-C8	-7.89	100.35	104.30
36	1	1608	C	C6-N1-C2	-7.89	117.14	120.30
36	1	2283	G	C4-C5-N7	7.89	113.96	110.80
36	1	2811	A	N3-C4-N9	7.89	133.71	127.40
36	1	2823	G	OP1-P-O3'	7.89	122.56	105.20
36	1	3186	A	N9-C4-C5	7.89	108.96	105.80
36	1	1120	A	N1-C2-N3	7.89	133.24	129.30
1	6	1212	G	C5-C6-N1	7.89	115.44	111.50
36	5	643	U	N3-C2-O2	-7.89	116.68	122.20
36	5	973	A	N1-C6-N6	7.89	123.33	118.60
36	5	1158	A	O5'-P-OP1	7.89	120.17	110.70
36	5	2908	G	C4-C5-N7	7.89	113.95	110.80
38	8	13	A	C8-N9-C4	7.89	108.95	105.80
1	2	1757	G	C4-N9-C1'	7.89	136.75	126.50
36	1	419	G	N7-C8-N9	-7.89	109.16	113.10
36	1	2167	A	C5-C6-N1	-7.89	113.76	117.70
36	1	3098	G	C6-N1-C2	-7.89	120.37	125.10
36	5	1325	U	C5-C6-N1	-7.89	118.76	122.70
36	5	2572	C	C2-N1-C1'	7.89	127.48	118.80
1	2	415	C	C6-N1-C2	7.88	123.45	120.30
36	1	226	C	N3-C2-O2	7.88	127.42	121.90
36	1	351	A	C2-N3-C4	-7.88	106.66	110.60
36	5	2635	A	C5-C6-N1	7.88	121.64	117.70
36	5	3044	G	N1-C6-O6	7.88	124.63	119.90
36	5	3223	A	N1-C6-N6	-7.88	113.87	118.60
38	8	119	C	C6-N1-C2	7.88	123.45	120.30
1	6	876	G	N3-C2-N2	-7.88	114.38	119.90
36	5	703	G	N1-C6-O6	7.88	124.63	119.90
36	5	1152	G	C8-N9-C4	-7.88	103.25	106.40
36	5	2400	G	C8-N9-C4	-7.88	103.25	106.40
1	6	126	A	C8-N9-C4	7.88	108.95	105.80
1	6	575	C	C5-C6-N1	-7.88	117.06	121.00
36	5	2382	G	C4-N9-C1'	-7.88	116.25	126.50
1	2	830	U	N3-C2-O2	-7.88	116.68	122.20
1	6	1090	C	N3-C4-N4	-7.88	112.48	118.00
36	1	1099	A	N1-C6-N6	7.88	123.33	118.60
36	5	1300	G	C8-N9-C4	7.88	109.55	106.40
36	5	2838	A	N1-C6-N6	-7.88	113.87	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	15	U	N1-C2-O2	7.88	128.31	122.80
36	1	751	A	N9-C4-C5	7.88	108.95	105.80
36	1	1607	U	N3-C4-O4	-7.88	113.89	119.40
36	5	585	A	OP1-P-O3'	-7.88	87.87	105.20
36	5	1386	A	C2-N3-C4	-7.88	106.66	110.60
37	7	92	A	C5-C6-N6	-7.88	117.40	123.70
1	6	1758	U	N3-C4-O4	7.88	124.91	119.40
1	6	1537	C	C6-N1-C1'	7.87	130.25	120.80
36	5	57	A	O5'-P-OP1	7.87	120.15	110.70
36	5	503	C	C5-C6-N1	-7.87	117.06	121.00
1	2	1215	C	N3-C2-O2	-7.87	116.39	121.90
36	1	1624	G	C4-C5-N7	7.87	113.95	110.80
36	5	640	U	N3-C4-O4	7.87	124.91	119.40
36	5	2852	C	N1-C2-O2	7.87	123.62	118.90
36	5	1108	U	N1-C2-N3	7.87	119.62	114.90
36	5	2123	G	N1-C6-O6	-7.87	115.18	119.90
36	5	3049	A	C5-C6-N1	-7.87	113.77	117.70
36	1	983	A	N1-C6-N6	7.87	123.32	118.60
36	1	2987	A	C2-N3-C4	7.87	114.53	110.60
36	1	3172	A	C8-N9-C4	-7.87	102.65	105.80
36	1	3319	U	C2-N1-C1'	7.87	127.14	117.70
1	6	1661	U	C5-C6-N1	-7.87	118.77	122.70
36	5	345	G	C4-N9-C1'	7.87	136.73	126.50
36	5	405	U	O5'-P-OP1	-7.87	98.62	105.70
36	5	1871	U	C5-C6-N1	7.87	126.63	122.70
36	5	2942	C	C6-N1-C1'	7.87	130.24	120.80
36	1	580	C	N3-C4-C5	7.87	125.05	121.90
1	2	551	G	N3-C4-N9	-7.87	121.28	126.00
1	2	1774	G	N3-C4-N9	7.87	130.72	126.00
36	1	1907	C	N3-C2-O2	-7.87	116.39	121.90
36	1	2944	U	O5'-P-OP2	7.87	120.14	110.70
37	3	75	G	N3-C4-N9	-7.87	121.28	126.00
36	5	2939	G	N3-C2-N2	-7.87	114.39	119.90
36	1	3246	G	C8-N9-C4	-7.86	103.25	106.40
36	5	1166	G	C5-C6-O6	-7.86	123.88	128.60
36	5	1433	A	C6-C5-N7	-7.86	126.80	132.30
36	1	1887	A	N9-C4-C5	-7.86	102.66	105.80
36	1	2762	A	C5-C6-N1	7.86	121.63	117.70
36	1	2765	C	N3-C2-O2	-7.86	116.40	121.90
36	5	795	G	N1-C6-O6	-7.86	115.18	119.90
36	1	1337	A	C5-C6-N6	-7.86	117.41	123.70
36	1	2199	G	O5'-P-OP1	-7.86	98.63	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3188	G	C2-N3-C4	7.86	115.83	111.90
1	2	1148	C	C6-N1-C2	-7.86	117.16	120.30
36	1	696	C	C5-C6-N1	7.86	124.93	121.00
36	1	2736	A	C2-N3-C4	-7.86	106.67	110.60
36	5	423	A	C6-N1-C2	-7.86	113.89	118.60
36	5	3025	C	C5-C6-N1	-7.86	117.07	121.00
1	2	18	C	C6-N1-C2	-7.86	117.16	120.30
1	2	1600	A	N9-C4-C5	-7.86	102.66	105.80
36	1	1224	C	C2-N1-C1'	7.86	127.44	118.80
36	5	788	C	C6-N1-C2	-7.86	117.16	120.30
36	1	932	U	N3-C4-C5	7.85	119.31	114.60
36	1	2664	C	C5-C6-N1	7.85	124.93	121.00
36	5	521	A	N9-C4-C5	7.85	108.94	105.80
36	1	394	G	C5-C6-O6	7.85	133.31	128.60
36	1	2572	C	C2-N1-C1'	7.85	127.44	118.80
36	1	2808	A	N1-C6-N6	7.85	123.31	118.60
36	5	2816	G	C5-C6-O6	-7.85	123.89	128.60
36	5	2857	C	N3-C2-O2	-7.85	116.40	121.90
36	1	400	G	N3-C4-N9	-7.85	121.29	126.00
36	1	3086	A	N1-C2-N3	7.85	133.22	129.30
36	5	2139	A	C4-C5-N7	-7.85	106.78	110.70
1	2	351	C	N3-C4-N4	-7.85	112.51	118.00
36	1	395	A	C8-N9-C4	-7.85	102.66	105.80
36	1	936	A	O5'-P-OP2	-7.85	98.64	105.70
36	1	1307	G	C6-N1-C2	-7.85	120.39	125.10
36	5	1931	U	C5-C6-N1	-7.85	118.78	122.70
36	5	3124	G	N3-C2-N2	-7.85	114.41	119.90
36	5	3171	U	C5-C6-N1	-7.85	118.78	122.70
1	6	1673	G	C8-N9-C4	7.84	109.54	106.40
36	5	986	U	C6-N1-C2	-7.84	116.29	121.00
36	1	906	A	C6-N1-C2	-7.84	113.89	118.60
36	1	2978	U	OP1-P-O3'	7.84	122.45	105.20
36	5	2262	A	N1-C6-N6	7.84	123.31	118.60
36	5	3144	G	C8-N9-C1'	-7.84	116.80	127.00
37	7	56	A	N7-C8-N9	7.84	117.72	113.80
36	1	350	C	C6-N1-C1'	-7.84	111.39	120.80
36	1	2147	A	C5-C6-N6	-7.84	117.43	123.70
36	1	3306	U	N3-C2-O2	-7.84	116.71	122.20
1	6	1114	G	C5-C6-O6	7.84	133.30	128.60
36	5	2122	G	C4-C5-N7	7.84	113.94	110.80
36	5	3032	A	N9-C4-C5	7.84	108.94	105.80
36	5	588	G	C5-C6-N1	7.84	115.42	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1665	C	O5'-P-OP1	-7.84	98.64	105.70
36	1	3137	C	C6-N1-C2	7.84	123.44	120.30
1	6	33	U	C5-C4-O4	-7.84	121.20	125.90
1	6	1546	G	N1-C6-O6	7.84	124.60	119.90
36	1	2997	G	C5-N7-C8	-7.83	100.38	104.30
1	6	458	G	O5'-P-OP1	7.83	120.10	110.70
1	6	1414	U	N1-C2-O2	7.83	128.28	122.80
36	5	1506	A	O5'-P-OP2	-7.83	98.65	105.70
36	5	1785	U	O5'-P-OP1	-7.83	98.65	105.70
36	5	2966	G	C5-C6-O6	7.83	133.30	128.60
36	5	679	U	N3-C4-O4	-7.83	113.92	119.40
36	5	908	G	C8-N9-C4	-7.83	103.27	106.40
36	5	2851	A	C5-C6-N6	7.83	129.97	123.70
36	1	887	G	N3-C4-C5	-7.83	124.68	128.60
36	5	75	G	O5'-P-OP1	7.83	120.10	110.70
36	5	974	G	N3-C4-C5	-7.83	124.68	128.60
36	5	1870	C	N3-C2-O2	7.83	127.38	121.90
36	5	2246	G	C4-C5-N7	7.83	113.93	110.80
38	4	109	A	C4-C5-N7	7.83	114.61	110.70
36	1	1392	G	C2-N3-C4	7.83	115.81	111.90
36	1	1905	G	C4-C5-N7	-7.83	107.67	110.80
36	1	2199	G	C4-N9-C1'	7.83	136.68	126.50
52	m6	78	ARG	NE-CZ-NH1	-7.83	116.39	120.30
1	2	1788	G	C5-C6-N1	7.83	115.41	111.50
36	1	1594	A	C6-N1-C2	-7.83	113.90	118.60
36	1	397	A	N9-C4-C5	7.83	108.93	105.80
36	1	1607	U	N3-C2-O2	-7.83	116.72	122.20
36	1	2378	C	C4-C5-C6	-7.83	113.49	117.40
1	6	151	G	N9-C4-C5	7.83	108.53	105.40
36	1	2404	A	O4'-C1'-N9	7.82	114.46	108.20
18	C6	28	LEU	CA-CB-CG	7.82	133.29	115.30
36	1	2873	U	N3-C4-O4	-7.82	113.93	119.40
36	1	3216	G	N1-C2-N3	7.82	128.59	123.90
36	1	3216	G	N9-C4-C5	-7.82	102.27	105.40
1	6	388	G	C6-C5-N7	-7.82	125.71	130.40
36	5	785	G	C8-N9-C4	-7.82	103.27	106.40
36	5	2168	A	C6-C5-N7	-7.82	126.83	132.30
36	5	2392	C	C5-C6-N1	-7.82	117.09	121.00
36	5	3229	G	N3-C4-N9	7.82	130.69	126.00
36	1	14	U	O5'-P-OP2	-7.82	98.66	105.70
36	1	2315	G	N9-C4-C5	7.82	108.53	105.40
36	1	2955	U	N3-C2-O2	-7.82	116.73	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	L3	275	ARG	NE-CZ-NH1	-7.82	116.39	120.30
1	6	1483	A	N1-C6-N6	-7.82	113.91	118.60
36	5	718	G	O4'-C1'-N9	7.82	114.46	108.20
36	5	2877	G	C4-C5-C6	7.82	123.49	118.80
1	2	1490	C	O5'-P-OP1	-7.82	98.66	105.70
36	1	506	U	OP2-P-O3'	7.82	122.40	105.20
36	1	1907	C	N1-C2-N3	7.82	124.67	119.20
36	5	1926	C	N1-C2-O2	7.82	123.59	118.90
36	5	2379	U	N1-C2-N3	7.82	119.59	114.90
36	1	1113	G	C2-N3-C4	-7.82	107.99	111.90
1	6	441	A	O5'-P-OP2	-7.82	98.67	105.70
36	5	1514	G	C4-N9-C1'	7.82	136.66	126.50
36	1	655	C	N3-C4-N4	7.81	123.47	118.00
36	1	2856	G	N3-C4-C5	7.81	132.51	128.60
36	5	667	C	C6-N1-C2	-7.81	117.17	120.30
36	5	2672	G	O5'-P-OP1	-7.81	98.67	105.70
36	5	2918	G	N1-C6-O6	-7.81	115.21	119.90
44	17	232	ARG	NE-CZ-NH2	-7.81	116.39	120.30
36	1	889	U	C4-C5-C6	7.81	124.39	119.70
36	5	3226	A	C2-N3-C4	-7.81	106.69	110.60
1	2	1085	G	N1-C6-O6	-7.81	115.21	119.90
36	1	2940	A	N3-C4-C5	-7.81	121.33	126.80
36	5	1085	A	N7-C8-N9	7.81	117.70	113.80
36	5	3193	C	C6-N1-C2	-7.81	117.18	120.30
36	1	2722	U	C6-N1-C2	-7.81	116.31	121.00
36	1	3388	C	N3-C4-N4	-7.81	112.53	118.00
1	6	65	A	C2-N3-C4	-7.81	106.70	110.60
36	5	1181	U	N3-C4-C5	-7.81	109.92	114.60
36	5	2915	U	C5-C4-O4	-7.81	121.22	125.90
36	1	877	C	N3-C2-O2	-7.81	116.44	121.90
36	5	2129	U	O5'-P-OP1	-7.81	98.67	105.70
36	1	1403	C	N3-C4-C5	7.80	125.02	121.90
36	1	2186	U	C5-C6-N1	-7.80	118.80	122.70
36	1	2409	G	N3-C4-C5	-7.80	124.70	128.60
36	5	1340	G	C8-N9-C4	-7.80	103.28	106.40
36	5	1794	G	O5'-P-OP1	-7.80	98.67	105.70
36	5	2737	C	O5'-P-OP2	-7.80	98.68	105.70
36	1	393	U	O5'-P-OP1	-7.80	98.68	105.70
36	1	650	C	N3-C4-N4	7.80	123.46	118.00
36	1	1151	U	C2-N3-C4	7.80	131.68	127.00
1	6	1271	G	C5-C6-N1	-7.80	107.60	111.50
36	5	1178	G	C8-N9-C4	-7.80	103.28	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1378	U	N3-C4-O4	7.80	124.86	119.40
36	1	3082	C	OP1-P-O3'	7.80	122.36	105.20
1	6	573	C	C5-C4-N4	-7.80	114.74	120.20
1	6	1470	C	N3-C2-O2	-7.80	116.44	121.90
36	5	183	G	C4-C5-N7	-7.80	107.68	110.80
36	5	2427	U	N3-C4-O4	-7.80	113.94	119.40
36	5	2826	U	C5-C6-N1	-7.80	118.80	122.70
1	2	6	G	N3-C4-C5	-7.80	124.70	128.60
36	1	335	G	C4-C5-N7	7.80	113.92	110.80
36	1	1329	U	N3-C2-O2	-7.80	116.74	122.20
1	6	58	U	O5'-P-OP1	-7.80	98.68	105.70
1	6	1183	A	C4-C5-C6	7.80	120.90	117.00
36	5	287	G	N7-C8-N9	7.80	117.00	113.10
36	1	279	U	OP1-P-O3'	7.79	122.35	105.20
36	1	1362	G	N7-C8-N9	-7.79	109.20	113.10
36	1	3172	A	N1-C2-N3	7.79	133.20	129.30
1	6	1127	G	C5-C6-O6	-7.79	123.92	128.60
36	5	3076	C	N3-C4-C5	-7.79	118.78	121.90
1	2	342	C	C6-N1-C2	7.79	123.42	120.30
1	2	1291	G	C4-N9-C1'	7.79	136.63	126.50
36	1	2510	U	O4'-C1'-N1	7.79	114.43	108.20
1	6	1535	U	C5-C6-N1	-7.79	118.80	122.70
36	5	115	A	N1-C6-N6	-7.79	113.92	118.60
36	5	1592	G	C2-N3-C4	7.79	115.80	111.90
36	5	2287	C	C5-C6-N1	-7.79	117.10	121.00
36	5	2926	A	C6-N1-C2	-7.79	113.92	118.60
36	5	2246	G	C5-C6-O6	-7.79	123.93	128.60
36	1	651	G	O5'-P-OP2	-7.79	98.69	105.70
65	N9	20	GLY	N-CA-C	7.79	132.57	113.10
1	2	1025	A	C4-N9-C1'	7.79	140.32	126.30
36	5	1637	A	N9-C4-C5	7.79	108.92	105.80
36	5	2302	G	OP1-P-OP2	-7.79	107.92	119.60
37	7	44	C	C5-C6-N1	-7.79	117.11	121.00
36	1	545	U	C5-C6-N1	7.79	126.59	122.70
36	1	2353	G	C2-N3-C4	-7.79	108.01	111.90
36	1	2707	C	C4-C5-C6	7.79	121.29	117.40
36	5	433	A	C2-N3-C4	-7.79	106.71	110.60
36	5	994	G	OP1-P-O3'	7.79	122.33	105.20
36	5	2362	C	N3-C4-C5	7.78	125.01	121.90
36	5	2879	C	C5-C4-N4	-7.78	114.75	120.20
36	1	416	A	C2-N3-C4	-7.78	106.71	110.60
36	1	3316	A	C5-N7-C8	-7.78	100.01	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	43	A	N1-C6-N6	7.78	123.27	118.60
1	2	1198	G	C8-N9-C4	-7.78	103.29	106.40
36	1	207	U	C5-C6-N1	7.78	126.59	122.70
36	1	636	C	C6-N1-C2	-7.78	117.19	120.30
36	1	2703	A	N3-C4-C5	-7.78	121.35	126.80
36	1	2940	A	C6-N1-C2	-7.78	113.93	118.60
36	1	2137	U	C5-C6-N1	-7.78	118.81	122.70
36	1	3055	U	C6-N1-C1'	-7.78	110.31	121.20
36	5	2302	G	C5-C6-O6	7.78	133.27	128.60
36	5	2692	A	O5'-P-OP1	-7.78	98.70	105.70
36	1	656	A	C5-C6-N6	-7.78	117.48	123.70
36	1	1422	G	N1-C6-O6	7.78	124.57	119.90
36	1	2356	A	O5'-P-OP1	7.78	120.03	110.70
1	6	351	C	C5-C4-N4	-7.78	114.75	120.20
36	5	1755	C	C4-C5-C6	-7.78	113.51	117.40
36	5	3298	C	C6-N1-C2	7.78	123.41	120.30
1	2	1654	G	N1-C2-N2	-7.78	109.20	116.20
36	1	2175	U	N1-C2-N3	7.78	119.57	114.90
36	1	3031	G	N3-C4-N9	-7.78	121.33	126.00
1	6	194	U	C2-N1-C1'	7.78	127.03	117.70
36	5	25	U	N3-C4-O4	7.78	124.84	119.40
36	5	71	A	N7-C8-N9	-7.78	109.91	113.80
36	5	131	C	C6-N1-C2	-7.78	117.19	120.30
36	5	3088	G	C5-C6-N1	-7.78	107.61	111.50
36	1	1191	U	C2-N1-C1'	-7.77	108.37	117.70
36	1	1361	U	N3-C4-O4	7.77	124.84	119.40
36	1	121	A	O5'-P-OP2	-7.77	98.70	105.70
1	6	901	G	O4'-C1'-N9	7.77	114.42	108.20
1	6	1024	U	O5'-P-OP2	-7.77	98.70	105.70
36	5	692	A	C6-C5-N7	-7.77	126.86	132.30
36	5	978	G	O5'-P-OP1	-7.77	98.70	105.70
36	5	1052	U	C5-C6-N1	7.77	126.59	122.70
1	6	1100	G	N1-C6-O6	7.77	124.56	119.90
1	2	424	C	C2-N1-C1'	7.77	127.35	118.80
36	1	1428	A	C4-C5-N7	7.77	114.58	110.70
36	1	3093	C	C4-C5-C6	7.77	121.28	117.40
36	1	3325	G	N9-C4-C5	-7.77	102.29	105.40
1	6	1648	A	C8-N9-C4	7.77	108.91	105.80
36	5	1537	A	N1-C6-N6	7.77	123.26	118.60
36	5	2608	G	OP2-P-O3'	7.77	122.30	105.20
40	13	356	LEU	CA-CB-CG	-7.77	97.43	115.30
36	1	1126	G	N1-C6-O6	7.77	124.56	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1393	A	N1-C6-N6	-7.77	113.94	118.60
36	5	2375	G	N3-C4-N9	-7.77	121.34	126.00
1	6	1050	G	N3-C4-C5	7.77	132.48	128.60
36	5	345	G	N3-C4-N9	7.77	130.66	126.00
36	5	1318	A	N1-C2-N3	7.77	133.18	129.30
36	5	1851	G	C8-N9-C4	-7.77	103.29	106.40
36	5	3099	C	C6-N1-C2	7.77	123.41	120.30
36	1	38	U	C6-N1-C2	7.76	125.66	121.00
36	1	93	C	C6-N1-C2	7.76	123.41	120.30
1	6	553	G	C4-C5-N7	7.76	113.91	110.80
36	5	3038	U	C2-N3-C4	-7.76	122.34	127.00
36	1	422	A	C6-N1-C2	-7.76	113.94	118.60
36	1	652	G	C6-N1-C2	-7.76	120.44	125.10
36	1	2770	G	C8-N9-C4	-7.76	103.30	106.40
1	6	36	C	O5'-P-OP2	-7.76	98.71	105.70
1	6	1000	C	N1-C2-N3	7.76	124.63	119.20
36	5	776	U	N1-C2-N3	7.76	119.56	114.90
36	5	943	U	C5-C6-N1	-7.76	118.82	122.70
36	5	983	A	N1-C2-N3	7.76	133.18	129.30
36	5	2611	U	C4-C5-C6	7.76	124.36	119.70
36	5	2743	A	C2-N3-C4	-7.76	106.72	110.60
36	5	3050	U	N3-C2-O2	-7.76	116.77	122.20
36	1	697	A	C6-N1-C2	7.76	123.25	118.60
36	1	1438	U	N1-C2-O2	-7.76	117.37	122.80
36	1	2371	G	N3-C4-C5	-7.76	124.72	128.60
1	6	1029	U	O5'-P-OP2	-7.76	98.72	105.70
36	5	365	A	N1-C6-N6	7.76	123.26	118.60
36	5	1370	G	C5-C6-N1	7.76	115.38	111.50
36	5	2290	C	C5-C4-N4	7.76	125.63	120.20
36	5	3136	G	C5-C6-O6	-7.76	123.94	128.60
36	1	624	G	C6-C5-N7	-7.76	125.75	130.40
36	1	965	A	N1-C2-N3	7.76	133.18	129.30
1	6	1243	G	C4-N9-C1'	7.76	136.59	126.50
36	5	1063	G	O5'-P-OP1	-7.76	98.72	105.70
36	5	131	C	C5-C6-N1	7.76	124.88	121.00
36	5	2302	G	N1-C2-N3	7.76	128.55	123.90
36	5	2851	A	C6-C5-N7	7.76	137.73	132.30
36	1	2939	G	C4-C5-C6	7.75	123.45	118.80
36	1	277	G	N1-C2-N2	7.75	123.18	116.20
36	1	2380	U	C6-N1-C2	7.75	125.65	121.00
36	1	2708	C	C6-N1-C2	-7.75	117.20	120.30
37	3	25	G	N3-C4-N9	7.75	130.65	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	331	A	C8-N9-C4	-7.75	102.70	105.80
1	6	420	A	C4-C5-N7	7.75	114.58	110.70
1	6	1022	C	O5'-P-OP1	-7.75	98.72	105.70
36	5	2403	G	N9-C4-C5	-7.75	102.30	105.40
36	5	3245	A	N3-C4-C5	7.75	132.23	126.80
37	7	47	C	N3-C4-C5	7.75	125.00	121.90
36	1	2985	C	C6-N1-C1'	7.75	130.10	120.80
37	3	102	A	C5-N7-C8	-7.75	100.02	103.90
43	L6	159	LEU	CA-CB-CG	-7.75	97.47	115.30
1	6	1038	U	N3-C2-O2	7.75	127.63	122.20
36	5	559	A	C6-C5-N7	-7.75	126.87	132.30
36	5	2910	A	OP1-P-OP2	-7.75	107.97	119.60
36	5	2936	A	N3-C4-N9	7.75	133.60	127.40
37	7	104	A	N1-C6-N6	7.75	123.25	118.60
36	1	2703	A	N1-C2-N3	7.75	133.18	129.30
1	6	402	C	C4-C5-C6	7.75	121.28	117.40
36	5	2368	A	N1-C2-N3	7.75	133.18	129.30
1	6	1610	G	C5-C6-O6	-7.75	123.95	128.60
36	5	200	C	C2-N1-C1'	7.75	127.32	118.80
1	2	1426	C	C5-C6-N1	7.75	124.87	121.00
36	1	1344	G	C8-N9-C4	7.75	109.50	106.40
36	1	1412	G	N1-C6-O6	7.75	124.55	119.90
36	1	1414	G	C6-C5-N7	-7.75	125.75	130.40
36	1	3289	G	C8-N9-C4	-7.75	103.30	106.40
37	3	87	G	OP2-P-O3'	7.75	122.24	105.20
1	6	370	A	N1-C6-N6	-7.75	113.95	118.60
36	5	40	A	C2-N3-C4	-7.75	106.73	110.60
36	5	818	C	C5-C6-N1	-7.75	117.13	121.00
36	5	2172	A	C2-N3-C4	-7.75	106.73	110.60
36	1	3034	C	N3-C2-O2	-7.75	116.48	121.90
36	5	197	G	C5-N7-C8	-7.75	100.43	104.30
36	5	713	U	N3-C4-O4	-7.75	113.98	119.40
1	2	583	C	N1-C2-O2	-7.74	114.25	118.90
36	1	1387	G	N1-C6-O6	-7.74	115.25	119.90
36	1	2181	C	C6-N1-C2	-7.74	117.20	120.30
36	1	2778	G	N1-C6-O6	-7.74	115.25	119.90
36	5	971	G	C4-C5-N7	-7.74	107.70	110.80
36	5	1403	C	C2-N3-C4	-7.74	116.03	119.90
37	7	40	C	N3-C4-C5	7.74	125.00	121.90
36	1	269	G	N1-C6-O6	-7.74	115.25	119.90
36	1	342	A	C6-N1-C2	7.74	123.24	118.60
36	1	942	U	C2-N1-C1'	7.74	126.99	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1201	C	N3-C4-C5	7.74	125.00	121.90
36	1	3344	A	C4-C5-N7	7.74	114.57	110.70
36	1	3390	G	C6-C5-N7	-7.74	125.75	130.40
1	6	466	U	N1-C2-N3	7.74	119.55	114.90
1	6	998	A	C6-N1-C2	-7.74	113.96	118.60
1	6	1490	C	C6-N1-C2	-7.74	117.20	120.30
36	5	937	G	OP1-P-OP2	7.74	131.21	119.60
36	5	1172	G	C4-C5-C6	7.74	123.44	118.80
36	5	2674	A	N1-C6-N6	-7.74	113.96	118.60
36	5	2955	U	N1-C2-O2	-7.74	117.38	122.80
36	1	1917	C	C5-C6-N1	-7.74	117.13	121.00
36	1	2138	A	C6-C5-N7	-7.74	126.88	132.30
36	1	2387	A	C8-N9-C4	-7.74	102.70	105.80
36	5	707	U	N3-C2-O2	-7.74	116.78	122.20
36	5	919	U	O5'-P-OP1	7.74	119.99	110.70
1	2	1029	U	C2-N1-C1'	-7.74	108.42	117.70
36	1	2887	A	C5-N7-C8	-7.74	100.03	103.90
37	3	91	G	C6-C5-N7	-7.74	125.76	130.40
36	1	358	G	C5-N7-C8	-7.74	100.43	104.30
36	1	2633	U	O5'-P-OP2	7.74	119.98	110.70
1	2	1596	C	C2-N1-C1'	7.73	127.31	118.80
36	1	1475	A	C8-N9-C4	7.73	108.89	105.80
36	5	2984	C	C2-N3-C4	-7.73	116.03	119.90
36	1	2119	A	N1-C6-N6	7.73	123.24	118.60
36	1	3109	G	C2-N3-C4	7.73	115.77	111.90
1	6	47	A	O5'-P-OP1	-7.73	98.74	105.70
36	5	2644	C	C4-C5-C6	7.73	121.27	117.40
36	1	1401	A	C6-N1-C2	-7.73	113.96	118.60
36	5	899	U	C5-C6-N1	-7.73	118.84	122.70
36	1	1207	G	C4-C5-N7	7.73	113.89	110.80
1	6	1169	G	N3-C4-C5	-7.73	124.74	128.60
36	5	1473	G	N3-C2-N2	7.73	125.31	119.90
36	1	792	G	N3-C4-N9	-7.73	121.36	126.00
36	1	1180	A	N3-C4-N9	-7.72	121.22	127.40
36	1	2322	C	C6-N1-C2	-7.72	117.21	120.30
1	6	576	G	C6-C5-N7	-7.72	125.77	130.40
36	5	668	G	N1-C6-O6	-7.72	115.27	119.90
36	5	2937	G	C8-N9-C4	7.72	109.49	106.40
36	1	909	G	C5-N7-C8	-7.72	100.44	104.30
36	5	2885	C	O5'-P-OP2	-7.72	98.75	105.70
1	2	414	C	N3-C4-N4	7.72	123.41	118.00
36	1	718	G	C5-C6-O6	-7.72	123.97	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	20	U	O5'-P-OP1	7.72	119.97	110.70
36	5	2988	C	C2-N1-C1'	7.72	127.29	118.80
36	1	1323	G	O5'-P-OP1	7.72	119.96	110.70
36	1	1422	G	C6-C5-N7	-7.72	125.77	130.40
38	4	85	G	N3-C4-C5	-7.72	124.74	128.60
1	6	998	A	N9-C4-C5	7.72	108.89	105.80
36	5	788	C	C4-C5-C6	7.72	121.26	117.40
36	5	2934	A	C6-C5-N7	-7.72	126.90	132.30
36	5	267	G	N1-C6-O6	-7.72	115.27	119.90
1	2	353	A	C4-C5-C6	7.72	120.86	117.00
1	2	468	A	C8-N9-C4	7.72	108.89	105.80
36	1	3361	G	N1-C6-O6	-7.72	115.27	119.90
1	6	1645	G	N3-C4-C5	-7.72	124.74	128.60
36	5	923	C	N3-C4-C5	7.72	124.99	121.90
36	5	1139	G	C4-N9-C1'	-7.72	116.47	126.50
36	5	2295	A	C8-N9-C4	-7.72	102.71	105.80
36	5	3256	G	N1-C6-O6	7.72	124.53	119.90
36	1	2919	A	C6-N1-C2	7.71	123.23	118.60
36	1	3244	A	OP2-P-O3'	7.71	122.17	105.20
1	6	1421	A	C8-N9-C4	7.71	108.89	105.80
37	7	97	A	C5-C6-N6	-7.71	117.53	123.70
36	1	192	C	C6-N1-C2	-7.71	117.22	120.30
36	1	277	G	N9-C4-C5	7.71	108.48	105.40
36	1	3136	G	C8-N9-C4	-7.71	103.31	106.40
37	7	80	G	N7-C8-N9	-7.71	109.24	113.10
1	2	1555	A	N9-C4-C5	7.71	108.89	105.80
36	1	324	A	O5'-P-OP1	-7.71	98.76	105.70
36	1	2633	U	O5'-P-OP1	-7.71	98.76	105.70
36	5	895	A	C2-N3-C4	-7.71	106.74	110.60
36	5	1085	A	N1-C6-N6	7.71	123.23	118.60
36	5	1406	A	N1-C2-N3	7.71	133.16	129.30
36	5	2919	A	C2-N3-C4	-7.71	106.74	110.60
36	5	3374	U	N3-C4-C5	7.71	119.23	114.60
36	1	1498	A	C6-N1-C2	-7.71	113.97	118.60
36	1	2250	G	O5'-P-OP1	-7.71	98.76	105.70
36	5	324	A	O4'-C1'-N9	-7.71	102.03	108.20
36	5	1211	U	N3-C2-O2	7.71	127.60	122.20
36	5	1389	G	N3-C4-N9	7.71	130.62	126.00
36	5	1913	A	C5-C6-N6	-7.71	117.53	123.70
36	5	2678	A	C2-N3-C4	-7.71	106.75	110.60
36	1	797	U	C5-C6-N1	-7.71	118.85	122.70
36	1	1070	U	C6-N1-C2	-7.71	116.38	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1208	U	N3-C2-O2	-7.71	116.81	122.20
36	1	1422	G	C4-N9-C1'	7.71	136.52	126.50
36	5	591	G	C5-N7-C8	7.71	108.15	104.30
36	5	2584	G	N3-C4-C5	-7.71	124.75	128.60
36	1	887	G	C5-C6-N1	7.71	115.35	111.50
36	5	2287	C	C5-C4-N4	7.71	125.59	120.20
36	5	2690	G	N3-C4-C5	7.71	132.45	128.60
36	1	2298	U	O4'-C1'-N1	7.70	114.36	108.20
36	1	3042	U	C2-N1-C1'	-7.70	108.45	117.70
36	5	3383	G	N9-C4-C5	-7.70	102.32	105.40
1	2	1587	A	N7-C8-N9	7.70	117.65	113.80
36	1	971	G	C8-N9-C1'	-7.70	116.99	127.00
36	1	1115	G	C8-N9-C4	-7.70	103.32	106.40
36	1	1311	G	C5-N7-C8	7.70	108.15	104.30
36	1	1541	G	C6-C5-N7	-7.70	125.78	130.40
36	1	2814	G	N3-C4-C5	-7.70	124.75	128.60
1	2	1422	A	C8-N9-C4	7.70	108.88	105.80
36	1	2186	U	N3-C4-O4	-7.70	114.01	119.40
36	5	780	A	N1-C6-N6	-7.70	113.98	118.60
36	5	2925	C	N3-C2-O2	7.70	127.29	121.90
36	1	872	U	C4-C5-C6	7.70	124.32	119.70
36	1	2132	C	N3-C4-C5	-7.70	118.82	121.90
1	6	34	G	C8-N9-C4	7.70	109.48	106.40
1	6	48	G	C4-C5-N7	-7.70	107.72	110.80
1	6	630	A	N1-C6-N6	7.70	123.22	118.60
1	6	1124	A	C2-N3-C4	-7.70	106.75	110.60
36	5	2935	U	C2-N3-C4	7.70	131.62	127.00
36	5	3343	G	C6-C5-N7	-7.70	125.78	130.40
36	1	1137	C	N3-C4-C5	-7.70	118.82	121.90
36	5	1370	G	N9-C4-C5	7.70	108.48	105.40
36	5	2847	A	C6-C5-N7	-7.70	126.91	132.30
36	5	3309	G	N9-C4-C5	-7.70	102.32	105.40
1	2	386	G	N1-C6-O6	-7.70	115.28	119.90
1	2	1591	C	N3-C4-N4	-7.70	112.61	118.00
36	1	499	G	N3-C2-N2	-7.70	114.51	119.90
1	6	1112	G	C6-C5-N7	7.70	135.02	130.40
36	5	211	A	C8-N9-C4	7.70	108.88	105.80
37	3	17	A	C8-N9-C4	-7.69	102.72	105.80
1	6	1580	C	C6-N1-C2	7.69	123.38	120.30
38	8	35	C	N3-C2-O2	-7.69	116.51	121.90
36	1	872	U	C6-N1-C2	-7.69	116.39	121.00
36	5	2303	A	C2-N3-C4	-7.69	106.75	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2602	G	C5-C6-N1	-7.69	107.65	111.50
36	5	2925	C	N1-C2-O2	-7.69	114.28	118.90
36	5	2932	U	N3-C4-C5	7.69	119.22	114.60
36	5	3309	G	N1-C2-N2	-7.69	109.28	116.20
36	1	370	U	C5-C4-O4	-7.69	121.29	125.90
36	1	1057	A	C6-N1-C2	7.69	123.21	118.60
36	1	1323	G	N3-C4-N9	7.69	130.61	126.00
36	1	1369	A	C2-N3-C4	-7.69	106.75	110.60
36	1	1434	G	C8-N9-C4	-7.69	103.32	106.40
36	1	2335	G	N1-C6-O6	-7.69	115.29	119.90
36	1	2896	A	C4-C5-C6	7.69	120.84	117.00
36	1	3180	A	N9-C4-C5	7.69	108.88	105.80
1	6	457	G	N9-C4-C5	-7.69	102.32	105.40
36	5	2131	A	C8-N9-C4	7.69	108.88	105.80
36	5	2617	U	C5-C6-N1	7.69	126.55	122.70
36	5	2735	U	O5'-P-OP2	-7.69	98.78	105.70
36	1	2738	A	C6-N1-C2	-7.69	113.99	118.60
1	2	601	A	N1-C6-N6	7.69	123.21	118.60
36	1	796	U	N1-C2-N3	-7.69	110.29	114.90
36	1	2911	A	C8-N9-C4	7.69	108.88	105.80
1	6	402	C	N3-C4-N4	7.69	123.38	118.00
1	6	1270	G	N1-C6-O6	7.69	124.51	119.90
36	5	610	G	C8-N9-C4	-7.69	103.33	106.40
36	5	2821	C	C6-N1-C1'	-7.69	111.58	120.80
36	5	3067	C	C2-N1-C1'	-7.69	110.34	118.80
36	5	3147	G	C8-N9-C4	7.69	109.47	106.40
1	6	609	U	N1-C2-N3	7.68	119.51	114.90
36	5	640	U	C5-C6-N1	7.68	126.54	122.70
36	5	1116	G	C4-C5-C6	7.68	123.41	118.80
36	5	1441	G	O5'-P-OP2	7.68	119.92	110.70
36	5	2683	U	C4-C5-C6	-7.68	115.09	119.70
36	5	3214	U	N3-C4-O4	-7.68	114.02	119.40
36	1	744	A	N3-C4-C5	7.68	132.18	126.80
36	1	1373	A	OP2-P-O3'	7.68	122.10	105.20
36	1	1782	U	C5-C4-O4	7.68	130.51	125.90
36	5	867	G	O5'-P-OP1	-7.68	98.79	105.70
36	5	3343	G	N3-C4-N9	7.68	130.61	126.00
1	2	1006	C	C2-N1-C1'	7.68	127.25	118.80
36	1	93	C	C2-N3-C4	7.68	123.74	119.90
5	s3	198	GLY	N-CA-C	-7.68	93.90	113.10
36	5	1148	G	N1-C2-N2	-7.68	109.29	116.20
36	1	1316	C	N1-C2-N3	7.68	124.58	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2284	C	C2-N1-C1'	7.68	127.25	118.80
1	6	639	U	O5'-P-OP2	-7.68	98.79	105.70
1	6	1753	A	C4-C5-C6	7.68	120.84	117.00
36	5	425	G	N3-C4-N9	-7.68	121.39	126.00
36	5	1429	G	N3-C4-C5	-7.68	124.76	128.60
36	5	2234	G	N9-C4-C5	-7.68	102.33	105.40
36	5	2816	G	C8-N9-C1'	7.68	136.98	127.00
36	1	2813	A	N1-C2-N3	7.68	133.14	129.30
36	5	2412	G	N7-C8-N9	7.68	116.94	113.10
1	2	1179	G	N1-C6-O6	-7.68	115.29	119.90
1	6	96	G	N7-C8-N9	7.68	116.94	113.10
36	5	1165	A	C6-C5-N7	-7.68	126.93	132.30
36	5	1905	G	C6-C5-N7	7.68	135.01	130.40
36	5	2193	U	C6-N1-C1'	-7.68	110.45	121.20
36	5	2387	A	N1-C2-N3	7.68	133.14	129.30
36	1	2649	A	N1-C6-N6	7.67	123.20	118.60
36	5	2197	C	N1-C2-N3	-7.67	113.83	119.20
36	5	3093	C	N1-C2-O2	-7.67	114.30	118.90
36	1	585	A	N1-C6-N6	-7.67	114.00	118.60
36	1	2849	C	N1-C2-O2	-7.67	114.30	118.90
1	6	1355	C	C6-N1-C2	-7.67	117.23	120.30
1	6	1704	U	C2-N1-C1'	7.67	126.91	117.70
36	5	1127	G	N9-C4-C5	7.67	108.47	105.40
36	5	2813	A	C6-C5-N7	-7.67	126.93	132.30
36	1	80	G	C6-N1-C2	-7.67	120.50	125.10
36	1	1495	U	C6-N1-C1'	7.67	131.94	121.20
36	1	1783	U	N3-C2-O2	-7.67	116.83	122.20
36	5	1056	U	N3-C4-O4	-7.67	114.03	119.40
36	5	1900	A	C6-N1-C2	-7.67	114.00	118.60
36	5	2403	G	C4-C5-N7	7.67	113.87	110.80
52	m6	27	LEU	CA-CB-CG	-7.67	97.66	115.30
36	1	914	A	C5-C6-N1	7.67	121.53	117.70
36	1	953	G	N1-C6-O6	-7.67	115.30	119.90
36	1	2368	A	C4-C5-N7	7.67	114.53	110.70
36	5	647	A	OP1-P-O3'	7.67	122.07	105.20
36	5	1007	U	C6-N1-C2	7.67	125.60	121.00
36	5	1044	U	C6-N1-C2	-7.67	116.40	121.00
36	5	1518	U	N3-C4-O4	7.67	124.77	119.40
36	1	386	A	N1-C6-N6	7.66	123.20	118.60
36	5	345	G	C4-C5-C6	7.66	123.40	118.80
36	5	3377	G	C4-C5-N7	7.66	113.87	110.80
1	2	1753	A	N1-C6-N6	7.66	123.20	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	91	G	N3-C4-C5	-7.66	124.77	128.60
1	6	1643	U	C5-C6-N1	-7.66	118.87	122.70
36	5	3067	C	N3-C4-N4	-7.66	112.64	118.00
36	1	1525	G	C8-N9-C1'	-7.66	117.04	127.00
1	6	876	G	N1-C2-N2	7.66	123.09	116.20
36	5	1163	A	N1-C6-N6	-7.66	114.00	118.60
36	5	1794	G	C4-N9-C1'	-7.66	116.54	126.50
36	1	76	G	N1-C6-O6	7.66	124.50	119.90
36	1	3055	U	N3-C4-O4	7.66	124.76	119.40
1	6	339	C	N1-C2-O2	-7.66	114.31	118.90
1	6	1372	U	N3-C2-O2	-7.66	116.84	122.20
36	1	404	G	O5'-P-OP2	-7.66	98.81	105.70
36	1	2937	G	C8-N9-C4	7.66	109.46	106.40
36	5	1496	C	C6-N1-C2	-7.66	117.24	120.30
36	5	2212	C	O5'-P-OP2	-7.66	98.81	105.70
36	5	3203	U	C5-C6-N1	-7.66	118.87	122.70
1	2	377	G	C8-N9-C1'	7.66	136.95	127.00
36	1	914	A	C2-N3-C4	7.66	114.43	110.60
36	1	917	A	C6-C5-N7	7.66	137.66	132.30
36	1	1926	C	N3-C4-C5	-7.66	118.84	121.90
1	6	1525	A	C6-N1-C2	-7.66	114.01	118.60
1	6	1768	G	C8-N9-C4	-7.66	103.34	106.40
36	5	3004	C	N3-C4-N4	7.66	123.36	118.00
24	D2	104	LEU	CA-CB-CG	7.65	132.91	115.30
36	5	36	C	C6-N1-C2	-7.65	117.24	120.30
36	5	1164	G	C6-C5-N7	7.65	134.99	130.40
36	5	3271	G	C4-N9-C1'	7.65	136.45	126.50
1	2	1789	G	C8-N9-C1'	-7.65	117.05	127.00
36	1	345	G	N3-C4-C5	-7.65	124.77	128.60
36	5	371	G	C4-C5-C6	-7.65	114.21	118.80
36	5	396	A	N1-C2-N3	7.65	133.13	129.30
36	5	2614	G	N9-C4-C5	-7.65	102.34	105.40
1	2	1438	G	N3-C4-C5	7.65	132.43	128.60
36	1	1880	U	O5'-P-OP2	-7.65	98.81	105.70
36	5	1049	C	C6-N1-C2	-7.65	117.24	120.30
36	5	2969	A	N1-C2-N3	7.65	133.12	129.30
36	1	639	G	N3-C4-N9	-7.65	121.41	126.00
36	1	1872	C	N1-C2-O2	-7.65	114.31	118.90
36	5	1399	A	C2-N3-C4	-7.65	106.78	110.60
36	1	38	U	N1-C2-N3	-7.65	110.31	114.90
36	1	752	C	N3-C2-O2	-7.65	116.55	121.90
36	1	866	A	N1-C2-N3	7.65	133.12	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2872	A	N1-C2-N3	-7.65	125.48	129.30
36	5	2966	G	C5-C6-N1	-7.65	107.68	111.50
1	6	1117	U	N1-C2-O2	-7.64	117.45	122.80
36	5	2120	A	C2-N3-C4	-7.64	106.78	110.60
36	5	2191	U	C6-N1-C2	-7.64	116.41	121.00
36	5	868	C	N3-C4-N4	7.64	123.35	118.00
36	5	2391	G	C6-C5-N7	7.64	134.99	130.40
36	5	2673	A	N1-C2-N3	7.64	133.12	129.30
1	2	597	G	C6-C5-N7	-7.64	125.81	130.40
36	5	404	G	C4-N9-C1'	7.64	136.43	126.50
36	1	649	A	C5-C6-N6	7.64	129.81	123.70
36	1	650	C	C5-C4-N4	-7.64	114.85	120.20
36	1	1113	G	N3-C4-C5	7.64	132.42	128.60
36	1	3261	C	O5'-P-OP1	7.64	119.87	110.70
1	6	1740	A	N1-C2-N3	7.64	133.12	129.30
36	5	978	G	N3-C2-N2	-7.64	114.55	119.90
36	5	1175	C	N1-C2-N3	7.64	124.55	119.20
36	5	2851	A	N1-C2-N3	7.64	133.12	129.30
36	5	2924	U	C6-N1-C1'	-7.64	110.50	121.20
36	1	2351	U	C6-N1-C2	-7.64	116.42	121.00
36	1	212	G	N3-C4-C5	-7.64	124.78	128.60
36	5	677	A	C5-C6-N6	-7.64	117.59	123.70
36	5	976	U	C6-N1-C2	-7.64	116.42	121.00
36	5	1323	G	N7-C8-N9	7.64	116.92	113.10
1	2	394	C	N1-C2-O2	7.63	123.48	118.90
36	1	1444	G	C8-N9-C4	-7.63	103.35	106.40
1	6	35	U	N3-C2-O2	-7.63	116.86	122.20
36	5	3092	C	N3-C4-C5	7.63	124.95	121.90
36	1	637	C	N1-C2-O2	7.63	123.48	118.90
36	1	2385	G	C6-C5-N7	-7.63	125.82	130.40
36	1	2756	C	N1-C2-N3	7.63	124.54	119.20
36	5	366	A	OP1-P-OP2	-7.63	108.15	119.60
36	5	3044	G	OP2-P-O3'	7.63	121.99	105.20
36	1	1419	A	C6-N1-C2	-7.63	114.02	118.60
36	1	3323	A	N1-C2-N3	7.63	133.12	129.30
36	5	2352	A	N1-C2-N3	7.63	133.12	129.30
36	5	3076	C	N1-C2-O2	-7.63	114.32	118.90
1	2	382	C	C6-N1-C2	-7.63	117.25	120.30
36	1	424	G	OP1-P-O3'	7.63	121.98	105.20
36	1	1880	U	N3-C2-O2	-7.63	116.86	122.20
36	1	2229	A	N1-C6-N6	7.63	123.18	118.60
36	1	2329	C	N3-C4-C5	-7.63	118.85	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	947	G	N1-C6-O6	7.63	124.48	119.90
36	5	1903	U	O5'-P-OP2	7.63	119.85	110.70
36	5	3314	A	C6-N1-C2	-7.63	114.02	118.60
36	1	358	G	C6-C5-N7	-7.63	125.82	130.40
36	1	688	G	C6-C5-N7	-7.63	125.82	130.40
36	5	646	A	C2-N3-C4	-7.63	106.79	110.60
36	5	2524	A	O4'-C1'-N9	7.63	114.30	108.20
36	5	2854	U	C4-C5-C6	7.63	124.28	119.70
36	5	3148	U	C5-C4-O4	7.63	130.48	125.90
36	1	2418	G	OP1-P-O3'	7.62	121.97	105.20
36	5	2607	G	C6-C5-N7	-7.62	125.83	130.40
36	1	627	U	N1-C2-O2	-7.62	117.46	122.80
36	1	2213	A	OP1-P-OP2	7.62	131.03	119.60
36	5	883	A	C5-C6-N1	7.62	121.51	117.70
36	5	2297	U	C5-C6-N1	7.62	126.51	122.70
1	2	403	G	C8-N9-C4	-7.62	103.35	106.40
36	1	80	G	N3-C4-C5	-7.62	124.79	128.60
1	6	577	G	N7-C8-N9	7.62	116.91	113.10
36	5	2332	A	C2-N3-C4	7.62	114.41	110.60
36	5	2932	U	N1-C2-N3	7.62	119.47	114.90
36	5	3322	A	C4-C5-C6	7.62	120.81	117.00
36	1	209	A	C5-C6-N6	7.62	129.80	123.70
36	5	1901	A	C4-C5-C6	-7.62	113.19	117.00
1	2	438	A	N1-C6-N6	-7.62	114.03	118.60
36	1	2317	A	O5'-P-OP2	-7.62	98.84	105.70
36	1	3054	U	C4-C5-C6	7.62	124.27	119.70
1	6	402	C	C5-C6-N1	-7.62	117.19	121.00
36	5	666	A	C4-C5-N7	-7.62	106.89	110.70
36	5	709	A	N1-C6-N6	7.62	123.17	118.60
36	5	1310	G	N7-C8-N9	7.62	116.91	113.10
36	1	1434	G	C5-N7-C8	-7.62	100.49	104.30
36	1	1792	C	C6-N1-C2	-7.62	117.25	120.30
36	1	2257	C	C6-N1-C1'	-7.62	111.66	120.80
36	5	1434	G	C4-C5-N7	7.62	113.85	110.80
36	1	709	A	C5-C6-N6	-7.62	117.61	123.70
36	1	963	G	C5-N7-C8	-7.62	100.49	104.30
36	1	2827	U	C2-N1-C1'	-7.62	108.56	117.70
36	5	645	A	N3-C4-C5	-7.62	121.47	126.80
36	5	969	C	C5-C6-N1	-7.62	117.19	121.00
36	5	2322	C	N3-C4-C5	-7.62	118.85	121.90
36	5	2621	G	C6-C5-N7	-7.62	125.83	130.40
36	5	2691	A	C5-C6-N1	7.62	121.51	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2358	A	N3-C4-N9	-7.61	121.31	127.40
1	2	1148	C	N3-C2-O2	-7.61	116.57	121.90
36	1	790	U	N3-C4-C5	-7.61	110.03	114.60
36	1	408	A	N9-C4-C5	7.61	108.84	105.80
36	1	2603	G	C6-C5-N7	-7.61	125.83	130.40
36	1	2856	G	C5-C6-N1	-7.61	107.69	111.50
36	5	2727	A	C4-C5-N7	-7.61	106.89	110.70
36	5	2897	A	N3-C4-N9	7.61	133.49	127.40
1	6	1777	G	C4-N9-C1'	7.61	136.39	126.50
36	5	1062	A	C2-N3-C4	-7.61	106.80	110.60
36	1	651	G	C8-N9-C4	7.61	109.44	106.40
36	1	1344	G	O5'-P-OP2	-7.61	98.85	105.70
36	1	2329	C	O5'-P-OP1	7.61	119.83	110.70
38	4	51	G	C5-C6-O6	7.61	133.16	128.60
38	4	86	U	C2-N1-C1'	7.61	126.83	117.70
36	5	64	G	C5-C6-N1	-7.61	107.70	111.50
36	5	1195	A	C8-N9-C4	-7.61	102.76	105.80
36	5	1495	U	C2-N1-C1'	7.61	126.83	117.70
36	5	2262	A	N9-C4-C5	-7.61	102.76	105.80
36	5	3327	G	C5-C6-N1	-7.61	107.70	111.50
1	2	1541	G	N1-C6-O6	7.61	124.46	119.90
36	1	612	U	C2-N3-C4	-7.61	122.44	127.00
36	1	2332	A	N9-C4-C5	-7.61	102.76	105.80
36	1	3150	A	N1-C6-N6	7.61	123.16	118.60
1	6	100	A	C2-N3-C4	-7.61	106.80	110.60
36	1	654	C	O5'-P-OP2	-7.60	98.86	105.70
36	5	957	C	N3-C4-N4	7.60	123.32	118.00
36	5	1429	G	N3-C4-N9	7.60	130.56	126.00
36	5	2934	A	C5-N7-C8	-7.60	100.10	103.90
1	2	1462	G	C8-N9-C4	7.60	109.44	106.40
36	1	2306	C	C6-N1-C2	-7.60	117.26	120.30
36	5	512	U	N3-C4-O4	-7.60	114.08	119.40
36	5	973	A	C4-C5-N7	7.60	114.50	110.70
36	5	2938	G	C5-C6-O6	-7.60	124.04	128.60
37	7	50	U	N3-C2-O2	-7.60	116.88	122.20
1	2	1756	A	N1-C6-N6	7.60	123.16	118.60
36	1	3260	G	C5-C6-N1	-7.60	107.70	111.50
1	6	999	U	N3-C4-C5	7.60	119.16	114.60
36	5	2397	A	C4-C5-N7	7.60	114.50	110.70
36	1	240	U	C6-N1-C2	-7.60	116.44	121.00
36	1	1144	U	N1-C2-O2	-7.60	117.48	122.80
36	1	1411	C	N1-C2-O2	7.60	123.46	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	585	A	N1-C6-N6	7.60	123.16	118.60
1	6	595	G	O5'-P-OP1	-7.60	98.86	105.70
1	6	1235	C	C6-N1-C2	-7.60	117.26	120.30
36	5	1253	U	N3-C2-O2	-7.60	116.88	122.20
36	5	1500	G	N9-C4-C5	-7.60	102.36	105.40
36	5	1884	A	O5'-P-OP1	-7.60	98.86	105.70
37	7	85	G	N3-C2-N2	-7.60	114.58	119.90
36	1	798	G	C8-N9-C4	-7.60	103.36	106.40
36	1	2631	U	C5-C6-N1	-7.60	118.90	122.70
1	6	26	A	C6-N1-C2	-7.60	114.04	118.60
1	6	1542	G	N3-C4-C5	-7.60	124.80	128.60
36	5	1213	G	O5'-P-OP2	-7.60	98.86	105.70
36	5	2129	U	C5-C6-N1	7.60	126.50	122.70
36	5	2808	A	OP1-P-O3'	7.60	121.91	105.20
36	5	3144	G	C4-N9-C1'	7.60	136.38	126.50
36	1	1828	A	N1-C6-N6	7.60	123.16	118.60
36	1	3248	C	N1-C2-O2	-7.60	114.34	118.90
1	6	316	A	C4-C5-N7	7.60	114.50	110.70
36	5	1461	A	N7-C8-N9	-7.60	110.00	113.80
36	1	2659	G	C5-C6-O6	-7.59	124.04	128.60
36	5	564	G	O5'-P-OP1	-7.59	98.86	105.70
36	5	2847	A	C5-C6-N1	-7.59	113.90	117.70
38	8	30	C	O5'-P-OP2	-7.59	98.86	105.70
36	1	2635	A	N7-C8-N9	7.59	117.60	113.80
36	5	437	G	C4-C5-C6	7.59	123.36	118.80
36	5	3032	A	C5-C6-N6	7.59	129.78	123.70
1	2	378	A	C2-N3-C4	-7.59	106.81	110.60
36	1	2826	U	C5-C4-O4	7.59	130.45	125.90
36	1	3000	A	O5'-P-OP2	-7.59	98.87	105.70
36	5	943	U	N1-C2-O2	-7.59	117.48	122.80
36	5	2619	G	N1-C2-N3	7.59	128.46	123.90
37	7	94	C	N3-C4-C5	7.59	124.94	121.90
1	2	1651	A	N3-C4-C5	7.59	132.11	126.80
36	1	281	G	C2-N3-C4	7.59	115.69	111.90
36	1	931	C	C5-C4-N4	-7.59	114.89	120.20
36	1	2814	G	C6-N1-C2	-7.59	120.55	125.10
36	5	1059	G	C5-C6-O6	7.59	133.15	128.60
36	5	1934	G	N7-C8-N9	-7.59	109.31	113.10
36	5	3208	G	N3-C4-N9	7.59	130.55	126.00
1	2	825	U	C5-C6-N1	7.59	126.49	122.70
36	1	1316	C	N3-C2-O2	-7.59	116.59	121.90
52	M6	141	LEU	CB-CG-CD2	-7.59	98.10	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	35	A	C5-N7-C8	7.59	107.69	103.90
36	5	62	A	N1-C6-N6	7.59	123.15	118.60
36	5	1379	G	C8-N9-C1'	-7.59	117.14	127.00
36	1	400	G	C8-N9-C1'	7.58	136.86	127.00
36	1	1924	U	N3-C4-O4	-7.58	114.09	119.40
36	1	3099	C	N1-C2-O2	-7.58	114.35	118.90
1	6	1634	C	C6-N1-C1'	-7.58	111.70	120.80
1	6	1777	G	C5-C6-O6	-7.58	124.05	128.60
36	5	2110	G	C6-N1-C2	-7.58	120.55	125.10
36	5	2118	C	N3-C2-O2	-7.58	116.59	121.90
36	5	2830	G	C5-C6-N1	-7.58	107.71	111.50
36	1	3206	C	N3-C4-N4	7.58	123.31	118.00
36	5	1211	U	N3-C4-C5	7.58	119.15	114.60
36	5	1455	U	O5'-P-OP2	7.58	119.80	110.70
36	5	3118	C	C6-N1-C2	-7.58	117.27	120.30
1	6	1668	G	O5'-P-OP2	-7.58	98.88	105.70
36	5	398	A	N7-C8-N9	-7.58	110.01	113.80
36	1	917	A	C5-N7-C8	7.58	107.69	103.90
36	1	2175	U	C6-N1-C2	-7.58	116.45	121.00
1	6	75	U	N1-C2-O2	7.58	128.10	122.80
36	1	1404	G	C8-N9-C4	7.58	109.43	106.40
36	1	1713	G	C8-N9-C4	7.58	109.43	106.40
1	6	322	G	N7-C8-N9	7.58	116.89	113.10
1	2	377	G	C4-N9-C1'	-7.58	116.65	126.50
36	1	632	G	C5-C6-N1	7.58	115.29	111.50
36	1	2353	G	C4-C5-C6	7.58	123.34	118.80
1	6	309	C	C6-N1-C2	7.58	123.33	120.30
36	5	899	U	C2-N3-C4	-7.58	122.45	127.00
36	5	3001	C	C6-N1-C2	7.58	123.33	120.30
36	5	3099	C	C2-N1-C1'	-7.58	110.47	118.80
36	1	1690	C	N3-C2-O2	-7.57	116.60	121.90
36	1	1937	U	C6-N1-C2	7.57	125.54	121.00
36	1	2654	C	C5-C4-N4	-7.57	114.90	120.20
36	1	3132	C	C5-C6-N1	-7.57	117.21	121.00
38	4	59	A	C8-N9-C4	-7.57	102.77	105.80
1	6	876	G	C4-N9-C1'	-7.57	116.65	126.50
36	5	921	A	N9-C4-C5	7.57	108.83	105.80
36	5	1381	A	N1-C2-N3	7.57	133.09	129.30
36	5	1486	G	O5'-P-OP1	-7.57	98.88	105.70
36	5	3029	A	N3-C4-N9	-7.57	121.34	127.40
36	5	423	A	O5'-P-OP2	7.57	119.79	110.70
1	2	696	C	C6-N1-C2	-7.57	117.27	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1462	G	C4-N9-C1'	-7.57	116.66	126.50
7	s5	165	LEU	CA-CB-CG	-7.57	97.89	115.30
36	5	884	A	N3-C4-N9	7.57	133.46	127.40
37	7	75	G	C8-N9-C4	7.57	109.43	106.40
37	7	105	C	C2-N1-C1'	7.57	127.13	118.80
36	1	3276	G	C5-N7-C8	-7.57	100.52	104.30
36	5	1885	U	N3-C4-C5	-7.57	110.06	114.60
36	1	1417	G	C5-C6-O6	-7.57	124.06	128.60
36	1	1505	C	C6-N1-C2	7.57	123.33	120.30
36	1	2839	G	C8-N9-C4	-7.57	103.37	106.40
1	6	1777	G	N3-C4-N9	7.57	130.54	126.00
36	5	1335	C	C6-N1-C2	-7.57	117.27	120.30
36	5	1379	G	C4-N9-C1'	7.57	136.34	126.50
36	5	2134	G	N3-C4-C5	-7.57	124.82	128.60
36	5	3172	A	C5-C6-N6	-7.57	117.65	123.70
36	5	3288	G	O4'-C1'-N9	7.57	114.25	108.20
36	1	770	G	C8-N9-C4	-7.57	103.37	106.40
36	1	1112	A	N1-C6-N6	-7.57	114.06	118.60
36	1	2801	A	C5-C6-N6	-7.57	117.65	123.70
36	5	3124	G	C5-N7-C8	-7.57	100.52	104.30
36	5	3174	A	N7-C8-N9	7.57	117.58	113.80
36	1	1156	C	C5-C6-N1	-7.56	117.22	121.00
36	5	2193	U	C2-N1-C1'	7.56	126.78	117.70
37	7	92	A	N9-C4-C5	-7.56	102.77	105.80
1	2	332	U	C5-C6-N1	-7.56	118.92	122.70
36	1	593	C	C6-N1-C2	-7.56	117.28	120.30
38	4	14	C	O5'-P-OP2	-7.56	98.89	105.70
1	6	876	G	N3-C4-N9	-7.56	121.46	126.00
36	5	652	G	N3-C4-N9	7.56	130.54	126.00
36	5	787	G	O5'-P-OP1	-7.56	98.89	105.70
36	5	3323	A	N9-C4-C5	7.56	108.83	105.80
36	1	2312	A	C2-N3-C4	7.56	114.38	110.60
37	7	14	U	C6-N1-C2	7.56	125.54	121.00
36	1	1194	G	C5-C6-N1	7.56	115.28	111.50
36	1	1360	C	C6-N1-C2	7.56	123.32	120.30
36	1	2150	G	N1-C6-O6	7.56	124.44	119.90
36	1	2609	A	N1-C2-N3	7.56	133.08	129.30
36	5	66	A	N7-C8-N9	-7.56	110.02	113.80
36	5	720	A	N1-C6-N6	-7.56	114.06	118.60
36	5	1059	G	N1-C6-O6	-7.56	115.36	119.90
37	7	68	C	N3-C2-O2	-7.56	116.61	121.90
1	2	967	A	C5-C6-N6	-7.56	117.66	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	608	A	C4-C5-N7	7.56	114.48	110.70
36	1	2426	U	C5-C4-O4	7.56	130.44	125.90
36	5	400	G	C5-N7-C8	-7.56	100.52	104.30
36	5	2168	A	C4-C5-N7	7.56	114.48	110.70
36	5	2932	U	C5-C4-O4	7.56	130.43	125.90
38	8	12	A	N1-C6-N6	7.56	123.14	118.60
36	1	668	G	N1-C6-O6	-7.56	115.37	119.90
36	1	2813	A	C5-C6-N6	7.56	129.75	123.70
36	1	1376	C	C4-C5-C6	7.55	121.18	117.40
36	5	300	G	C5-C6-O6	7.55	133.13	128.60
36	5	320	G	OP1-P-O3'	7.55	121.82	105.20
36	1	1419	A	N3-C4-C5	-7.55	121.51	126.80
36	1	2906	C	C2-N3-C4	-7.55	116.12	119.90
36	5	692	A	N1-C6-N6	7.55	123.13	118.60
36	1	2856	G	N1-C6-O6	7.55	124.43	119.90
36	1	3085	G	N9-C4-C5	-7.55	102.38	105.40
1	6	797	G	C6-C5-N7	7.55	134.93	130.40
1	6	815	G	C4-C5-N7	7.55	113.82	110.80
1	6	1560	U	N3-C2-O2	-7.55	116.92	122.20
36	5	577	C	C2-N3-C4	-7.55	116.12	119.90
36	5	1316	C	C2-N3-C4	-7.55	116.12	119.90
36	5	1496	C	C2-N1-C1'	7.55	127.11	118.80
36	5	2624	G	C6-C5-N7	-7.55	125.87	130.40
36	5	2870	C	C2-N3-C4	-7.55	116.12	119.90
36	5	2886	U	N3-C2-O2	-7.55	116.91	122.20
37	7	93	C	N1-C2-N3	7.55	124.49	119.20
36	1	67	A	N7-C8-N9	-7.55	110.03	113.80
36	5	263	C	C6-N1-C2	7.55	123.32	120.30
36	5	400	G	N3-C4-C5	7.55	132.38	128.60
36	5	424	G	OP2-P-O3'	7.55	121.81	105.20
36	5	986	U	N1-C2-O2	7.55	128.09	122.80
36	5	1010	G	C6-C5-N7	-7.55	125.87	130.40
1	2	103	A	C5-C6-N6	-7.55	117.66	123.70
36	5	2130	G	O5'-P-OP2	-7.55	98.91	105.70
36	5	2675	C	O5'-P-OP1	-7.55	98.91	105.70
1	6	1007	C	C6-N1-C2	7.55	123.32	120.30
36	5	1632	A	C5-N7-C8	7.55	107.67	103.90
1	6	943	C	N3-C4-C5	7.54	124.92	121.90
1	6	1572	G	N3-C4-C5	7.54	132.37	128.60
36	5	1453	A	C8-N9-C4	7.54	108.82	105.80
36	5	2108	C	C4-C5-C6	7.54	121.17	117.40
37	7	29	C	N1-C2-O2	-7.54	114.37	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2647	A	C6-C5-N7	-7.54	127.02	132.30
36	1	3085	G	C8-N9-C4	7.54	109.42	106.40
36	5	591	G	C8-N9-C1'	-7.54	117.19	127.00
36	5	2121	G	C8-N9-C4	-7.54	103.38	106.40
36	5	2991	A	N9-C4-C5	7.54	108.82	105.80
38	8	33	A	O5'-P-OP2	7.54	119.75	110.70
36	1	345	G	C5-C6-N1	-7.54	107.73	111.50
1	6	358	U	N3-C2-O2	-7.54	116.92	122.20
36	5	89	A	N1-C2-N3	7.54	133.07	129.30
36	5	131	C	N1-C2-O2	7.54	123.42	118.90
36	5	2357	A	C6-N1-C2	-7.54	114.08	118.60
1	6	1484	G	C8-N9-C4	-7.54	103.38	106.40
36	5	2388	U	C5-C6-N1	-7.54	118.93	122.70
1	2	1632	C	N3-C2-O2	7.54	127.18	121.90
36	1	1501	U	N3-C4-O4	7.54	124.68	119.40
36	1	2400	G	C5-N7-C8	-7.54	100.53	104.30
36	1	2701	U	N3-C4-C5	-7.54	110.08	114.60
36	1	3272	C	N1-C2-O2	-7.54	114.38	118.90
36	5	12	A	O5'-P-OP1	-7.54	98.92	105.70
36	5	431	U	N1-C2-N3	7.54	119.42	114.90
36	5	1351	U	C6-N1-C2	-7.54	116.48	121.00
36	5	1673	G	C5-C6-O6	-7.54	124.08	128.60
36	5	1904	C	C6-N1-C2	7.54	123.32	120.30
36	5	2160	G	C5-C6-O6	-7.54	124.08	128.60
36	5	2874	G	C5-C6-O6	7.54	133.12	128.60
36	5	3012	A	C4-C5-N7	7.54	114.47	110.70
38	8	107	G	C4-C5-C6	7.54	123.32	118.80
36	1	653	A	O5'-P-OP2	-7.54	98.92	105.70
1	6	75	U	C2-N1-C1'	7.54	126.74	117.70
36	5	1306	G	C5-N7-C8	-7.54	100.53	104.30
36	5	1370	G	N1-C2-N3	7.54	128.42	123.90
36	5	1389	G	C6-C5-N7	-7.54	125.88	130.40
36	5	3343	G	N3-C4-C5	-7.54	124.83	128.60
1	2	771	A	C8-N9-C4	-7.53	102.79	105.80
36	1	721	G	C4-C5-N7	7.53	113.81	110.80
36	1	2877	G	N1-C2-N2	7.53	122.98	116.20
38	4	10	A	O5'-P-OP1	7.53	119.74	110.70
37	7	89	G	C8-N9-C1'	-7.53	117.21	127.00
36	1	1144	U	N3-C2-O2	7.53	127.47	122.20
36	5	817	A	O5'-P-OP2	7.53	119.74	110.70
36	5	1382	G	N1-C6-O6	7.53	124.42	119.90
36	5	1886	A	C5-C6-N6	7.53	129.73	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1200	G	C4-C5-C6	7.53	123.32	118.80
36	1	3018	C	OP2-P-O3'	7.53	121.77	105.20
1	6	1783	C	N1-C2-O2	-7.53	114.38	118.90
36	5	1918	C	N3-C4-C5	-7.53	118.89	121.90
36	1	968	G	N1-C2-N2	-7.53	109.42	116.20
36	1	2218	G	C8-N9-C4	7.53	109.41	106.40
36	1	3235	C	O5'-P-OP1	-7.53	98.92	105.70
36	5	330	G	N7-C8-N9	-7.53	109.33	113.10
1	2	424	C	C6-N1-C2	-7.53	117.29	120.30
1	2	1004	U	N3-C2-O2	-7.53	116.93	122.20
36	1	924	G	O4'-C1'-N9	-7.53	102.18	108.20
36	1	2994	A	C2-N3-C4	-7.53	106.84	110.60
1	6	1113	A	O5'-P-OP1	-7.53	98.92	105.70
1	6	1271	G	C8-N9-C1'	-7.53	117.21	127.00
36	5	321	C	N1-C2-O2	7.53	123.42	118.90
36	5	659	G	O5'-P-OP2	-7.53	98.92	105.70
36	5	3044	G	O5'-P-OP2	-7.53	98.92	105.70
36	1	87	U	C6-N1-C2	-7.53	116.48	121.00
36	1	1308	A	C5-C6-N1	-7.53	113.94	117.70
36	1	2843	U	C2-N1-C1'	7.53	126.73	117.70
38	4	38	U	C5-C6-N1	7.53	126.46	122.70
38	4	104	A	N9-C4-C5	7.53	108.81	105.80
36	5	787	G	N3-C2-N2	-7.53	114.63	119.90
36	5	2116	G	N3-C4-N9	-7.53	121.48	126.00
36	5	2689	A	C5-N7-C8	-7.53	100.14	103.90
36	5	3188	G	N3-C4-N9	7.53	130.51	126.00
36	1	2952	G	N3-C2-N2	-7.52	114.63	119.90
36	1	277	G	C5-C6-N1	7.52	115.26	111.50
36	1	2394	G	C5-C6-O6	7.52	133.11	128.60
36	1	2611	U	C6-N1-C2	-7.52	116.49	121.00
1	6	638	U	N1-C2-O2	-7.52	117.53	122.80
36	5	1395	G	OP2-P-O3'	7.52	121.75	105.20
36	5	3179	U	N3-C4-O4	7.52	124.67	119.40
37	7	101	G	N3-C2-N2	-7.52	114.63	119.90
36	5	61	A	C4-C5-N7	-7.52	106.94	110.70
36	5	1419	A	N1-C2-N3	7.52	133.06	129.30
36	1	1487	G	N3-C2-N2	-7.52	114.64	119.90
38	4	5	U	N3-C2-O2	7.52	127.46	122.20
36	5	214	G	N1-C2-N2	7.52	122.97	116.20
36	5	875	G	O5'-P-OP2	-7.52	98.93	105.70
36	5	1931	U	N3-C4-O4	-7.52	114.14	119.40
36	5	2661	G	N1-C2-N2	-7.52	109.43	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3037	U	C6-N1-C2	7.52	125.51	121.00
36	5	3129	A	C5-C6-N6	7.52	129.72	123.70
36	5	3296	A	C8-N9-C4	7.52	108.81	105.80
36	1	368	G	C2-N3-C4	-7.52	108.14	111.90
36	1	1120	A	C5-C6-N1	7.52	121.46	117.70
25	d3	54	LEU	CA-CB-CG	-7.52	98.01	115.30
36	5	734	C	N1-C2-O2	7.52	123.41	118.90
36	5	1159	A	N1-C2-N3	7.52	133.06	129.30
36	5	1551	C	C4-C5-C6	7.52	121.16	117.40
36	5	2151	C	C6-N1-C2	7.52	123.31	120.30
36	5	2919	A	C5-C6-N6	7.52	129.72	123.70
36	5	3061	G	C2-N3-C4	-7.52	108.14	111.90
1	6	1466	G	C5-C6-O6	-7.52	124.09	128.60
36	5	1166	G	O5'-P-OP2	-7.52	98.94	105.70
36	5	2244	A	C5-N7-C8	7.52	107.66	103.90
36	5	3049	A	N1-C6-N6	7.52	123.11	118.60
36	1	1170	A	N1-C2-N3	-7.51	125.54	129.30
36	1	1335	C	C6-N1-C2	-7.51	117.29	120.30
36	1	2199	G	C6-N1-C2	-7.51	120.59	125.10
36	1	2858	U	N3-C2-O2	-7.51	116.94	122.20
36	5	1891	A	C8-N9-C4	7.51	108.81	105.80
36	5	2130	G	N3-C2-N2	-7.51	114.64	119.90
36	5	2372	A	P-O3'-C3'	7.51	128.72	119.70
36	1	983	A	C5-C6-N1	-7.51	113.94	117.70
1	6	1108	G	N7-C8-N9	7.51	116.86	113.10
36	5	369	A	C8-N9-C4	-7.51	102.80	105.80
36	5	3079	U	C4-C5-C6	7.51	124.21	119.70
36	1	1482	A	C4-C5-N7	7.51	114.46	110.70
36	1	3031	G	C4-N9-C1'	-7.51	116.73	126.50
37	3	6	C	C5-C4-N4	-7.51	114.94	120.20
38	4	61	A	O5'-P-OP1	-7.51	98.94	105.70
1	6	600	U	C5-C4-O4	-7.51	121.39	125.90
36	5	115	A	C5-C6-N6	7.51	129.71	123.70
36	5	1523	U	C5-C6-N1	7.51	126.46	122.70
36	5	3029	A	N3-C4-C5	7.51	132.06	126.80
36	5	3308	C	C4-C5-C6	7.51	121.16	117.40
1	2	883	C	C5-C6-N1	7.51	124.75	121.00
36	1	293	C	C5-C6-N1	-7.51	117.25	121.00
36	1	611	A	O5'-P-OP2	-7.51	98.94	105.70
36	1	1381	A	C2-N3-C4	-7.51	106.84	110.60
36	1	2289	U	O5'-P-OP1	-7.51	98.94	105.70
36	1	3217	C	N3-C4-C5	-7.51	118.90	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	922	U	N3-C2-O2	7.51	127.46	122.20
36	5	2263	C	C5-C6-N1	7.51	124.75	121.00
36	5	2973	G	C5-C6-N1	-7.51	107.75	111.50
1	6	1323	C	O5'-P-OP1	-7.51	98.94	105.70
1	6	1525	A	N1-C6-N6	-7.51	114.09	118.60
36	5	110	G	N3-C4-N9	7.51	130.50	126.00
36	1	935	U	O5'-P-OP1	-7.51	98.94	105.70
36	1	1116	G	OP1-P-O3'	-7.51	88.69	105.20
36	1	2424	A	C5-C6-N1	-7.51	113.95	117.70
38	4	125	U	O4'-C1'-N1	7.51	114.21	108.20
1	6	1614	A	O4'-C1'-N9	7.51	114.20	108.20
36	5	56	G	C8-N9-C4	7.51	109.40	106.40
36	5	659	G	C8-N9-C4	-7.51	103.40	106.40
1	2	110	U	N1-C2-O2	-7.50	117.55	122.80
36	1	856	G	C4-C5-N7	-7.50	107.80	110.80
36	1	917	A	N9-C4-C5	7.50	108.80	105.80
1	6	1498	G	C4-N9-C1'	7.50	136.25	126.50
36	5	976	U	N3-C2-O2	-7.50	116.95	122.20
36	5	1892	G	N1-C2-N3	7.50	128.40	123.90
36	5	2839	G	N1-C6-O6	-7.50	115.40	119.90
37	7	88	G	N9-C4-C5	7.50	108.40	105.40
37	7	89	G	C4-C5-C6	7.50	123.30	118.80
1	2	1127	G	N1-C2-N3	7.50	128.40	123.90
1	2	1773	C	C5-C6-N1	7.50	124.75	121.00
36	1	335	G	C5-N7-C8	-7.50	100.55	104.30
36	1	1602	A	O5'-P-OP1	-7.50	98.95	105.70
36	1	2127	U	C5-C6-N1	7.50	126.45	122.70
36	1	2979	U	C5-C4-O4	7.50	130.40	125.90
36	1	2993	G	C8-N9-C1'	-7.50	117.25	127.00
1	6	917	U	C6-N1-C2	-7.50	116.50	121.00
36	5	895	A	N1-C2-N3	7.50	133.05	129.30
36	5	1310	G	N3-C4-C5	-7.50	124.85	128.60
1	2	632	U	N3-C2-O2	-7.50	116.95	122.20
36	1	2298	U	O5'-P-OP2	-7.50	98.95	105.70
1	6	1769	U	O5'-P-OP2	-7.50	98.95	105.70
36	1	614	C	C6-N1-C2	-7.50	117.30	120.30
36	1	2359	C	N1-C2-O2	-7.50	114.40	118.90
1	6	797	G	C5-C6-N1	7.50	115.25	111.50
1	6	1518	C	N3-C4-C5	7.50	124.90	121.90
36	5	659	G	N7-C8-N9	7.50	116.85	113.10
36	5	871	U	N1-C2-O2	7.50	128.05	122.80
36	5	1001	G	N1-C6-O6	-7.50	115.40	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1887	A	C6-N1-C2	-7.50	114.10	118.60
36	1	1053	A	O5'-P-OP2	-7.50	98.95	105.70
36	1	2824	G	C5-C6-N1	-7.50	107.75	111.50
1	6	98	U	C4-C5-C6	7.50	124.20	119.70
38	8	80	A	C2-N3-C4	7.50	114.35	110.60
36	5	1006	A	C6-N1-C2	-7.50	114.10	118.60
36	5	1330	A	N7-C8-N9	-7.50	110.05	113.80
36	1	2113	A	N1-C6-N6	-7.49	114.10	118.60
36	1	3390	G	C8-N9-C1'	-7.49	117.26	127.00
1	6	301	A	N9-C4-C5	7.49	108.80	105.80
1	6	1592	A	C8-N9-C4	-7.49	102.80	105.80
1	6	1796	C	C2-N1-C1'	7.49	127.04	118.80
36	5	35	A	N9-C4-C5	7.49	108.80	105.80
36	5	3393	U	N3-C4-O4	-7.49	114.16	119.40
1	2	1150	G	N9-C4-C5	7.49	108.40	105.40
1	2	1749	A	C2-N3-C4	-7.49	106.85	110.60
36	1	3151	U	C5-C4-O4	7.49	130.40	125.90
36	5	935	U	C5-C6-N1	7.49	126.45	122.70
36	5	2155	G	C4-C5-C6	7.49	123.30	118.80
36	1	376	G	C4-C5-N7	-7.49	107.80	110.80
36	1	892	U	O5'-P-OP2	-7.49	98.96	105.70
36	1	962	A	C4-C5-C6	7.49	120.75	117.00
37	3	75	G	C2-N3-C4	-7.49	108.15	111.90
36	5	264	G	N3-C4-N9	7.49	130.49	126.00
36	5	667	C	N3-C2-O2	-7.49	116.66	121.90
36	5	696	C	N3-C2-O2	-7.49	116.66	121.90
36	5	1115	G	N1-C2-N2	-7.49	109.46	116.20
36	5	1594	A	N1-C2-N3	7.49	133.05	129.30
36	1	2916	U	N1-C2-O2	7.49	128.04	122.80
1	6	139	C	N1-C2-N3	7.49	124.44	119.20
1	6	561	G	C8-N9-C4	-7.49	103.40	106.40
36	5	1451	C	C6-N1-C2	-7.49	117.31	120.30
36	5	2421	U	N1-C2-N3	7.49	119.39	114.90
36	5	2877	G	C4-N9-C1'	7.49	136.24	126.50
37	7	21	G	N3-C2-N2	-7.49	114.66	119.90
36	5	1170	A	N1-C2-N3	7.49	133.04	129.30
36	5	1482	A	C5-C6-N1	7.49	121.44	117.70
36	5	2910	A	N1-C2-N3	-7.49	125.56	129.30
36	1	1143	A	N1-C2-N3	7.49	133.04	129.30
36	1	1174	G	C4-N9-C1'	7.49	136.23	126.50
36	1	1307	G	C2'-C3'-O3'	7.49	125.97	109.50
36	1	2614	G	N1-C2-N3	7.49	128.39	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1165	A	C4-C5-C6	7.49	120.74	117.00
36	5	1435	A	N9-C4-C5	7.49	108.79	105.80
36	5	2375	G	C8-N9-C4	-7.49	103.41	106.40
36	5	3214	U	N1-C2-N3	7.49	119.39	114.90
37	7	112	G	N3-C4-C5	-7.49	124.86	128.60
1	6	548	G	N1-C6-O6	7.48	124.39	119.90
36	5	1484	U	C6-N1-C1'	7.48	131.68	121.20
37	7	75	G	C2-N3-C4	-7.48	108.16	111.90
1	2	421	A	C8-N9-C4	7.48	108.79	105.80
1	2	1420	C	N1-C2-O2	7.48	123.39	118.90
1	2	1433	G	N3-C4-N9	7.48	130.49	126.00
36	1	148	G	C6-C5-N7	-7.48	125.91	130.40
36	5	1175	C	O5'-P-OP1	-7.48	98.97	105.70
36	5	2566	C	C6-N1-C2	-7.48	117.31	120.30
36	5	3376	A	C8-N9-C4	-7.48	102.81	105.80
36	1	50	U	N3-C4-C5	-7.48	110.11	114.60
36	1	612	U	C4-C5-C6	7.48	124.19	119.70
36	1	1791	C	C2-N1-C1'	-7.48	110.57	118.80
36	1	2186	U	O5'-P-OP1	7.48	119.68	110.70
1	6	1651	A	C5-N7-C8	-7.48	100.16	103.90
36	5	911	C	N3-C2-O2	-7.48	116.66	121.90
36	5	941	G	C6-N1-C2	-7.48	120.61	125.10
36	1	2628	A	C4-C5-C6	7.48	120.74	117.00
36	5	2727	A	O5'-P-OP1	-7.48	98.97	105.70
52	m6	141	LEU	CB-CG-CD2	-7.48	98.28	111.00
36	1	1483	G	N3-C4-N9	7.48	130.49	126.00
36	1	1881	A	N1-C2-N3	7.48	133.04	129.30
1	6	432	G	N3-C4-C5	-7.48	124.86	128.60
1	6	608	U	N3-C4-O4	-7.48	114.17	119.40
1	6	1197	C	C6-N1-C2	7.48	123.29	120.30
29	d7	7	LEU	CA-CB-CG	-7.48	98.10	115.30
36	5	232	G	N3-C4-N9	-7.48	121.51	126.00
36	5	976	U	N1-C2-N3	7.48	119.39	114.90
36	5	998	A	C4-C5-N7	-7.48	106.96	110.70
36	5	1013	G	N1-C6-O6	-7.48	115.41	119.90
36	5	1407	A	C8-N9-C4	7.48	108.79	105.80
36	1	3326	G	N7-C8-N9	-7.48	109.36	113.10
1	2	334	G	N3-C2-N2	-7.47	114.67	119.90
1	2	1125	A	N1-C6-N6	-7.47	114.12	118.60
36	1	939	U	OP2-P-O3'	7.47	121.64	105.20
38	4	104	A	N3-C4-N9	-7.47	121.42	127.40
1	6	1330	G	C5-C6-N1	-7.47	107.76	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2690	G	N3-C2-N2	-7.47	114.67	119.90
38	8	76	C	N3-C4-C5	-7.47	118.91	121.90
1	2	373	G	C8-N9-C4	-7.47	103.41	106.40
36	1	512	U	N3-C4-C5	-7.47	110.12	114.60
36	1	1435	A	N7-C8-N9	7.47	117.54	113.80
36	1	1547	G	N1-C2-N2	-7.47	109.47	116.20
36	1	2400	G	OP2-P-O3'	7.47	121.64	105.20
36	5	889	U	C5-C6-N1	-7.47	118.96	122.70
36	5	2829	U	OP1-P-O3'	-7.47	88.76	105.20
1	6	636	A	C4-C5-N7	-7.47	106.97	110.70
36	1	281	G	N1-C6-O6	-7.47	115.42	119.90
36	1	1898	G	N1-C6-O6	-7.47	115.42	119.90
36	1	2263	C	O5'-P-OP2	-7.47	98.98	105.70
36	1	2837	A	C2-N3-C4	-7.47	106.87	110.60
36	1	2940	A	C8-N9-C4	-7.47	102.81	105.80
36	1	3222	U	C5-C4-O4	7.47	130.38	125.90
1	6	264	G	C5-C6-O6	-7.47	124.12	128.60
36	5	227	G	C4-C5-N7	-7.47	107.81	110.80
37	7	45	A	N9-C4-C5	7.47	108.79	105.80
36	1	148	G	N3-C4-N9	7.47	130.48	126.00
38	4	12	A	N7-C8-N9	7.47	117.53	113.80
1	2	360	A	C4-C5-N7	7.47	114.43	110.70
36	1	2283	G	N1-C6-O6	7.47	124.38	119.90
36	1	2930	A	N7-C8-N9	-7.47	110.07	113.80
36	5	421	G	N3-C4-C5	-7.47	124.87	128.60
36	5	2286	U	C2-N3-C4	-7.47	122.52	127.00
36	1	1362	G	N3-C4-N9	-7.46	121.52	126.00
36	1	3157	U	N3-C4-O4	-7.46	114.17	119.40
36	5	1374	G	C5-N7-C8	-7.46	100.57	104.30
36	1	823	C	N1-C2-O2	-7.46	114.42	118.90
36	1	2172	A	C5-C6-N6	-7.46	117.73	123.70
36	1	2647	A	C4-C5-C6	7.46	120.73	117.00
36	5	1338	C	N1-C2-O2	-7.46	114.42	118.90
36	1	3305	A	C8-N9-C4	-7.46	102.81	105.80
36	1	3393	U	N1-C2-O2	-7.46	117.58	122.80
36	5	2698	G	N7-C8-N9	-7.46	109.37	113.10
37	7	42	A	C6-N1-C2	-7.46	114.12	118.60
36	1	1490	A	N1-C2-N3	7.46	133.03	129.30
1	6	905	A	N9-C4-C5	7.46	108.78	105.80
36	5	405	U	N1-C2-N3	-7.46	110.42	114.90
36	1	1064	A	N1-C6-N6	-7.46	114.12	118.60
36	1	2662	G	O5'-P-OP2	-7.46	98.99	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2785	A	N1-C2-N3	7.46	133.03	129.30
1	6	1146	G	N7-C8-N9	7.46	116.83	113.10
36	5	520	U	N1-C2-O2	7.46	128.02	122.80
36	5	636	C	N3-C4-C5	-7.46	118.92	121.90
36	5	3052	G	N3-C2-N2	7.46	125.12	119.90
37	7	97	A	C4-C5-C6	7.46	120.73	117.00
36	1	523	A	C8-N9-C4	7.46	108.78	105.80
36	1	3316	A	C4-C5-N7	7.46	114.43	110.70
1	6	565	C	N3-C4-C5	7.46	124.88	121.90
36	5	1498	A	N1-C2-N3	7.46	133.03	129.30
36	5	1740	U	C5-C6-N1	-7.46	118.97	122.70
36	5	2313	A	C6-N1-C2	-7.46	114.13	118.60
37	7	38	U	C5-C4-O4	-7.46	121.43	125.90
36	1	1210	U	C5-C4-O4	7.46	130.37	125.90
36	5	595	G	C5-C6-N1	-7.46	107.77	111.50
37	7	56	A	O5'-P-OP2	7.46	119.65	110.70
36	1	1867	A	N1-C2-N3	7.45	133.03	129.30
36	1	2400	G	C4-C5-N7	7.45	113.78	110.80
36	1	2606	G	N7-C8-N9	7.45	116.83	113.10
36	1	2826	U	C2-N1-C1'	-7.45	108.75	117.70
36	5	330	G	C5-C6-O6	-7.45	124.13	128.60
36	5	512	U	C5-C4-O4	7.45	130.37	125.90
36	5	798	G	C2-N3-C4	-7.45	108.17	111.90
36	1	939	U	N1-C2-O2	-7.45	117.58	122.80
1	6	1278	G	C4-N9-C1'	7.45	136.19	126.50
36	5	718	G	C4-N9-C1'	7.45	136.19	126.50
36	1	316	U	N3-C4-C5	-7.45	110.13	114.60
36	1	2239	G	N1-C6-O6	-7.45	115.43	119.90
1	6	1664	C	O5'-P-OP1	-7.45	98.99	105.70
36	5	1203	A	C4-C5-N7	7.45	114.42	110.70
57	n1	17	ARG	NE-CZ-NH2	-7.45	116.58	120.30
36	1	2610	G	N1-C6-O6	7.45	124.37	119.90
36	5	1737	U	N1-C2-O2	-7.45	117.59	122.80
36	5	1881	A	C5-C6-N6	-7.45	117.74	123.70
36	5	2895	G	C4-N9-C1'	7.45	136.18	126.50
36	1	2168	A	N1-C2-N3	7.45	133.02	129.30
36	5	507	U	N3-C2-O2	-7.45	116.99	122.20
36	1	1377	G	N9-C4-C5	-7.45	102.42	105.40
36	1	3209	A	N9-C4-C5	-7.45	102.82	105.80
36	1	312	C	C6-N1-C2	7.44	123.28	120.30
36	1	1007	U	C6-N1-C2	7.44	125.47	121.00
36	1	1512	U	O5'-P-OP1	-7.44	99.00	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2984	C	N3-C2-O2	-7.44	116.69	121.90
36	5	699	A	C8-N9-C4	-7.44	102.82	105.80
36	5	2297	U	C6-N1-C2	-7.44	116.53	121.00
36	5	2327	U	O5'-P-OP2	-7.44	99.00	105.70
36	1	925	A	O5'-P-OP2	7.44	119.63	110.70
36	1	1136	A	N7-C8-N9	-7.44	110.08	113.80
36	1	1499	C	N3-C4-N4	7.44	123.21	118.00
36	1	2572	C	N1-C2-O2	7.44	123.36	118.90
1	6	1498	G	N3-C4-N9	7.44	130.46	126.00
1	6	1653	C	C6-N1-C2	7.44	123.28	120.30
36	5	591	G	N3-C4-C5	-7.44	124.88	128.60
36	5	2524	A	C5-N7-C8	-7.44	100.18	103.90
36	5	2995	A	C8-N9-C4	7.44	108.78	105.80
36	1	1702	U	N3-C2-O2	7.44	127.41	122.20
36	1	2589	G	C6-C5-N7	-7.44	125.94	130.40
36	1	1863	G	C5-C6-O6	-7.44	124.14	128.60
36	1	2956	A	C6-C5-N7	-7.44	127.09	132.30
36	5	863	C	O5'-P-OP1	-7.44	99.01	105.70
36	5	1045	C	O5'-P-OP1	-7.44	99.01	105.70
36	5	1200	A	N1-C6-N6	7.44	123.06	118.60
36	1	345	G	C6-C5-N7	-7.44	125.94	130.40
1	6	922	G	C4-N9-C1'	7.44	136.17	126.50
36	1	382	U	N1-C2-O2	-7.43	117.60	122.80
36	1	414	U	C5-C6-N1	-7.43	118.98	122.70
36	1	1546	A	C8-N9-C4	-7.43	102.83	105.80
36	1	2824	G	N9-C4-C5	-7.43	102.43	105.40
36	1	2892	A	C6-N1-C2	-7.43	114.14	118.60
36	1	2909	U	C6-N1-C2	7.43	125.46	121.00
36	1	3034	C	O5'-P-OP2	-7.43	99.01	105.70
37	3	102	A	C4-C5-N7	7.43	114.42	110.70
38	4	110	C	C2-N1-C1'	-7.43	110.62	118.80
1	6	1534	G	O4'-C1'-N9	7.43	114.15	108.20
36	5	523	A	C2-N3-C4	-7.43	106.88	110.60
36	5	669	U	C6-N1-C1'	-7.43	110.79	121.20
36	5	851	C	C5-C4-N4	-7.43	115.00	120.20
36	5	1665	C	N3-C4-N4	-7.43	112.80	118.00
38	8	12	A	C5-C6-N6	-7.43	117.75	123.70
36	1	2941	A	C2-N3-C4	7.43	114.32	110.60
36	1	3153	U	C5-C4-O4	7.43	130.36	125.90
36	5	2282	U	C6-N1-C2	7.43	125.46	121.00
36	5	2728	G	C8-N9-C1'	-7.43	117.34	127.00
36	5	2901	G	O5'-P-OP2	-7.43	99.01	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1750	A	N1-C2-N3	7.43	133.02	129.30
36	1	3263	G	C8-N9-C1'	-7.43	117.34	127.00
36	5	2190	U	C5-C4-O4	7.43	130.36	125.90
1	2	414	C	C5-C6-N1	7.43	124.72	121.00
36	1	806	A	N3-C4-C5	7.43	132.00	126.80
36	1	1180	A	N9-C4-C5	7.43	108.77	105.80
36	5	1838	G	N1-C6-O6	7.43	124.36	119.90
36	5	2675	C	N3-C4-C5	7.43	124.87	121.90
36	1	38	U	N3-C2-O2	7.43	127.40	122.20
36	1	1936	A	N1-C6-N6	-7.43	114.14	118.60
36	1	2375	G	C2-N3-C4	-7.43	108.19	111.90
36	1	2738	A	C8-N9-C4	-7.43	102.83	105.80
36	5	522	A	C8-N9-C4	7.43	108.77	105.80
36	5	1407	A	O5'-P-OP1	7.43	119.61	110.70
36	5	1919	G	C6-C5-N7	-7.43	125.94	130.40
1	2	1108	G	N1-C6-O6	-7.43	115.44	119.90
1	6	1033	C	O5'-P-OP1	-7.43	99.02	105.70
1	6	1272	U	N1-C2-N3	7.43	119.36	114.90
36	5	329	U	N1-C2-O2	7.43	128.00	122.80
36	5	1477	A	C6-N1-C2	-7.43	114.14	118.60
37	7	43	U	C5-C4-O4	7.43	130.36	125.90
57	n1	10	ARG	NE-CZ-NH1	7.43	124.01	120.30
36	1	1317	A	C5-N7-C8	-7.42	100.19	103.90
36	1	2623	G	N3-C4-C5	7.42	132.31	128.60
1	6	384	G	C8-N9-C4	-7.42	103.43	106.40
36	5	1480	G	C8-N9-C4	7.42	109.37	106.40
36	5	2907	G	N1-C2-N3	7.42	128.35	123.90
36	5	3154	C	N3-C2-O2	-7.42	116.70	121.90
36	5	3346	U	N1-C2-O2	7.42	128.00	122.80
36	1	1117	G	C5-C6-O6	-7.42	124.15	128.60
36	1	1578	C	C2-N1-C1'	7.42	126.97	118.80
36	5	216	G	O5'-P-OP1	-7.42	99.02	105.70
36	5	578	A	C4-C5-N7	-7.42	106.99	110.70
36	5	1185	C	C5-C6-N1	-7.42	117.29	121.00
36	5	2375	G	O5'-P-OP1	-7.42	99.02	105.70
36	1	41	G	C8-N9-C4	-7.42	103.43	106.40
36	1	406	G	N1-C6-O6	-7.42	115.45	119.90
36	1	933	A	C4-N9-C1'	7.42	139.66	126.30
36	1	1897	G	C8-N9-C4	-7.42	103.43	106.40
36	1	2632	G	O5'-P-OP2	-7.42	99.02	105.70
36	1	2995	A	C8-N9-C4	7.42	108.77	105.80
36	1	3139	A	C8-N9-C4	-7.42	102.83	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1011	A	C8-N9-C4	-7.42	102.83	105.80
36	5	3218	A	C4-C5-C6	7.42	120.71	117.00
76	q0	102	ARG	NE-CZ-NH1	-7.42	116.59	120.30
36	1	585	A	C4-C5-N7	-7.42	106.99	110.70
36	5	514	G	O5'-P-OP1	7.42	119.60	110.70
36	5	959	C	N1-C2-N3	7.42	124.39	119.20
36	5	3069	G	C5-N7-C8	-7.42	100.59	104.30
37	7	13	A	C6-C5-N7	-7.42	127.11	132.30
1	2	1782	A	C2-N3-C4	-7.42	106.89	110.60
36	1	227	G	N3-C4-C5	-7.42	124.89	128.60
36	5	511	G	C2-N3-C4	-7.42	108.19	111.90
36	5	787	G	C8-N9-C4	7.42	109.37	106.40
36	5	2327	U	OP2-P-O3'	7.42	121.52	105.20
36	1	2777	G	C8-N9-C4	-7.42	103.43	106.40
1	6	1139	A	C5-N7-C8	-7.42	100.19	103.90
36	5	577	C	N3-C4-C5	7.42	124.87	121.90
36	5	1047	A	C6-N1-C2	-7.42	114.15	118.60
36	5	1604	G	C2-N3-C4	7.42	115.61	111.90
36	1	1955	U	C5-C6-N1	7.42	126.41	122.70
1	6	330	G	N1-C6-O6	7.42	124.35	119.90
36	5	1894	U	N1-C2-O2	-7.42	117.61	122.80
36	5	2613	U	N3-C4-O4	7.42	124.59	119.40
36	5	2957	G	N1-C6-O6	7.42	124.35	119.90
36	1	231	G	C5-C6-O6	-7.41	124.15	128.60
36	1	2849	C	N3-C4-C5	-7.41	118.94	121.90
1	6	866	G	N1-C6-O6	7.41	124.35	119.90
36	5	437	G	C4-N9-C1'	7.41	136.14	126.50
36	5	919	U	O5'-P-OP2	-7.41	99.03	105.70
36	5	1453	A	C6-N1-C2	-7.41	114.15	118.60
36	5	2414	G	C5-C6-N1	-7.41	107.79	111.50
36	1	2179	C	N3-C4-C5	-7.41	118.94	121.90
1	6	142	G	N9-C4-C5	7.41	108.36	105.40
40	l3	266	ARG	NE-CZ-NH2	7.41	124.01	120.30
1	2	1757	G	N3-C4-N9	7.41	130.45	126.00
36	1	425	G	N1-C2-N2	-7.41	109.53	116.20
36	1	793	C	N3-C4-N4	7.41	123.19	118.00
36	1	2918	G	N3-C4-N9	7.41	130.45	126.00
36	5	696	C	N1-C2-O2	7.41	123.35	118.90
36	5	1863	G	C5-C6-N1	7.41	115.20	111.50
36	5	2661	G	N9-C4-C5	-7.41	102.44	105.40
36	1	818	C	C4-C5-C6	7.41	121.10	117.40
36	1	1124	U	N3-C2-O2	-7.41	117.02	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2288	G	C8-N9-C1'	-7.41	117.37	127.00
36	1	2614	G	N3-C4-N9	7.41	130.44	126.00
36	5	1283	C	C6-N1-C2	7.41	123.26	120.30
36	5	1383	G	C5-C6-N1	-7.41	107.80	111.50
36	1	2364	G	C5-C6-N1	7.41	115.20	111.50
36	5	406	G	N3-C4-N9	-7.41	121.56	126.00
36	5	3262	U	N1-C2-N3	7.41	119.34	114.90
37	7	49	G	C2-N3-C4	-7.41	108.20	111.90
1	2	1572	G	N9-C4-C5	-7.41	102.44	105.40
36	1	662	U	C5-C6-N1	-7.41	119.00	122.70
36	1	697	A	N1-C2-N3	-7.41	125.60	129.30
36	1	1136	A	N1-C2-N3	7.41	133.00	129.30
36	1	3266	G	N1-C2-N3	7.41	128.34	123.90
37	3	85	G	N1-C6-O6	7.41	124.34	119.90
1	6	1480	G	N1-C6-O6	7.41	124.34	119.90
36	5	517	G	C6-C5-N7	-7.41	125.96	130.40
36	5	640	U	N3-C4-C5	-7.41	110.16	114.60
36	5	2643	A	C8-N9-C4	7.41	108.76	105.80
36	5	2715	A	OP2-P-O3'	7.41	121.49	105.20
36	5	422	A	C6-N1-C2	-7.40	114.16	118.60
36	5	1201	C	C2-N3-C4	7.40	123.60	119.90
36	5	1486	G	C4-N9-C1'	-7.40	116.88	126.50
36	1	2705	A	OP1-P-OP2	-7.40	108.50	119.60
36	1	2856	G	C8-N9-C4	7.40	109.36	106.40
1	6	1542	G	N1-C6-O6	-7.40	115.46	119.90
36	5	1344	G	C2-N3-C4	-7.40	108.20	111.90
36	1	1113	G	OP2-P-O3'	7.40	121.48	105.20
36	1	1380	G	N1-C6-O6	7.40	124.34	119.90
36	1	2981	U	C6-N1-C2	-7.40	116.56	121.00
1	6	922	G	C5-C6-O6	-7.40	124.16	128.60
1	6	950	C	C6-N1-C2	-7.40	117.34	120.30
36	5	41	G	C8-N9-C4	-7.40	103.44	106.40
36	5	1332	A	C8-N9-C4	7.40	108.76	105.80
36	5	1364	C	OP1-P-O3'	-7.40	88.93	105.20
36	5	1847	A	C2-N3-C4	-7.40	106.90	110.60
36	5	2288	G	N1-C6-O6	7.40	124.34	119.90
36	5	2937	G	O5'-P-OP1	7.40	119.58	110.70
1	2	19	A	N1-C6-N6	7.40	123.04	118.60
1	2	348	U	O5'-P-OP2	-7.40	99.04	105.70
36	1	2160	G	C8-N9-C4	7.40	109.36	106.40
36	1	2606	G	C6-N1-C2	-7.40	120.66	125.10
36	5	806	A	N3-C4-C5	7.40	131.98	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2948	C	C6-N1-C2	-7.40	117.34	120.30
36	5	3125	U	N3-C4-O4	-7.40	114.22	119.40
36	1	38	U	C2-N1-C1'	-7.39	108.83	117.70
36	5	1715	A	OP1-P-O3'	7.39	121.47	105.20
36	1	1131	G	C5-C6-O6	-7.39	124.17	128.60
36	1	1329	U	P-O3'-C3'	7.39	128.57	119.70
36	1	1928	G	C2-N3-C4	-7.39	108.20	111.90
36	1	2756	C	N1-C2-O2	-7.39	114.46	118.90
36	1	3050	U	C4-C5-C6	7.39	124.14	119.70
36	5	1324	U	O5'-P-OP2	-7.39	99.05	105.70
36	1	2121	G	N1-C6-O6	-7.39	115.47	119.90
1	6	695	U	N3-C2-O2	-7.39	117.03	122.20
36	5	871	U	N3-C2-O2	-7.39	117.03	122.20
36	1	351	A	C8-N9-C4	7.39	108.75	105.80
36	1	396	A	C6-N1-C2	-7.39	114.17	118.60
36	1	1001	G	N1-C6-O6	7.39	124.33	119.90
36	1	1372	C	C6-N1-C2	7.39	123.26	120.30
37	3	88	G	N1-C2-N3	7.39	128.33	123.90
39	L2	25	GLY	N-CA-C	-7.39	94.62	113.10
36	5	657	A	C5-C6-N1	7.39	121.39	117.70
36	5	858	A	N9-C4-C5	7.39	108.76	105.80
36	5	1926	C	N3-C2-O2	-7.39	116.73	121.90
36	5	2302	G	N1-C6-O6	-7.39	115.47	119.90
1	2	415	C	C5-C6-N1	-7.39	117.31	121.00
36	1	714	G	C6-C5-N7	-7.39	125.97	130.40
36	1	1792	C	C4-C5-C6	7.39	121.09	117.40
36	5	2428	U	C2-N1-C1'	-7.39	108.83	117.70
36	5	1148	G	N3-C4-N9	7.39	130.43	126.00
36	5	1438	U	N1-C2-N3	7.39	119.33	114.90
36	1	213	A	C4-C5-N7	7.38	114.39	110.70
36	1	2879	C	N3-C2-O2	7.38	127.07	121.90
1	6	1465	C	N3-C4-C5	-7.38	118.95	121.90
36	5	1113	G	C5-C6-N1	-7.38	107.81	111.50
36	5	3004	C	N3-C2-O2	7.38	127.07	121.90
36	1	2309	A	C6-C5-N7	-7.38	127.13	132.30
36	5	388	G	N3-C2-N2	-7.38	114.73	119.90
36	5	1422	G	C6-C5-N7	-7.38	125.97	130.40
1	2	310	C	N3-C4-C5	-7.38	118.95	121.90
1	2	458	G	N3-C4-C5	7.38	132.29	128.60
36	5	93	C	N1-C2-O2	7.38	123.33	118.90
36	5	1399	A	C4-C5-N7	7.38	114.39	110.70
36	5	2191	U	C5-C4-O4	7.38	130.33	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2243	A	C6-N1-C2	-7.38	114.17	118.60
1	2	1006	C	N3-C2-O2	-7.38	116.73	121.90
1	2	1436	A	C8-N9-C4	7.38	108.75	105.80
1	2	1748	G	C2-N3-C4	-7.38	108.21	111.90
36	1	1103	A	N1-C6-N6	-7.38	114.17	118.60
36	1	2904	U	C5-C6-N1	-7.38	119.01	122.70
1	6	425	A	N1-C6-N6	-7.38	114.17	118.60
1	6	1029	U	C2-N1-C1'	-7.38	108.84	117.70
36	1	523	A	O5'-P-OP2	-7.38	99.06	105.70
36	1	567	G	C8-N9-C4	-7.38	103.45	106.40
36	1	2139	A	N1-C6-N6	7.38	123.03	118.60
36	1	2153	U	C6-N1-C2	-7.38	116.57	121.00
36	1	2378	C	N3-C2-O2	7.38	127.06	121.90
36	1	2403	G	C4-C5-N7	7.38	113.75	110.80
36	1	2614	G	O5'-P-OP2	-7.38	99.06	105.70
36	1	2964	G	O5'-P-OP2	-7.38	99.06	105.70
36	1	3390	G	N1-C6-O6	7.38	124.33	119.90
1	6	480	G	C4-N9-C1'	7.38	136.09	126.50
36	5	1083	G	N1-C6-O6	-7.38	115.47	119.90
36	5	1345	G	C5-C6-N1	-7.38	107.81	111.50
36	5	2700	G	N3-C4-N9	7.38	130.43	126.00
36	1	885	U	C6-N1-C2	7.38	125.43	121.00
36	1	2331	C	N1-C2-O2	7.38	123.33	118.90
36	1	3003	G	C5-C6-O6	-7.38	124.17	128.60
1	6	1135	U	C5-C6-N1	-7.38	119.01	122.70
36	5	1085	A	C5-N7-C8	-7.38	100.21	103.90
1	2	1558	U	C2-N1-C1'	7.38	126.55	117.70
36	1	1408	G	N9-C4-C5	-7.38	102.45	105.40
36	1	1433	A	N1-C2-N3	7.38	132.99	129.30
1	6	1209	C	O5'-P-OP1	-7.38	99.06	105.70
36	5	2190	U	C4-C5-C6	7.38	124.12	119.70
36	5	2848	G	N3-C4-N9	-7.38	121.58	126.00
36	5	3329	U	C6-N1-C2	-7.38	116.58	121.00
37	7	103	A	OP2-P-O3'	7.38	121.42	105.20
36	1	105	C	C2-N3-C4	-7.37	116.21	119.90
36	1	1884	A	C2-N3-C4	-7.37	106.91	110.60
36	1	2238	G	C2-N3-C4	7.37	115.59	111.90
36	5	2132	C	O5'-P-OP2	-7.37	99.06	105.70
37	3	82	G	C6-C5-N7	-7.37	125.98	130.40
1	6	1091	A	O4'-C1'-N9	7.37	114.10	108.20
36	5	333	G	C8-N9-C4	7.37	109.35	106.40
36	5	377	A	N1-C6-N6	-7.37	114.18	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	880	G	O4'-C1'-N9	7.37	114.10	108.20
36	5	965	A	N1-C6-N6	7.37	123.02	118.60
37	7	109	G	C5-N7-C8	-7.37	100.61	104.30
1	2	1177	C	C6-N1-C2	7.37	123.25	120.30
36	1	718	G	N7-C8-N9	7.37	116.78	113.10
36	1	2413	A	C2-N3-C4	-7.37	106.92	110.60
36	5	979	U	C5-C4-O4	7.37	130.32	125.90
36	1	2379	U	N1-C2-N3	7.37	119.32	114.90
1	6	78	A	C5-C6-N6	7.37	129.59	123.70
36	5	395	A	O5'-P-OP2	-7.37	99.07	105.70
36	5	1017	C	C5-C6-N1	7.37	124.68	121.00
36	5	1403	C	C5-C6-N1	-7.37	117.31	121.00
36	5	1878	G	C2-N3-C4	7.37	115.58	111.90
36	1	1371	G	N7-C8-N9	-7.37	109.42	113.10
36	5	2838	A	C6-N1-C2	-7.37	114.18	118.60
36	1	416	A	C5-C6-N1	-7.36	114.02	117.70
36	1	2144	A	O4'-C1'-N9	7.36	114.09	108.20
37	3	115	G	C4-C5-N7	7.36	113.75	110.80
1	6	1109	G	O5'-P-OP1	-7.36	99.07	105.70
36	5	582	G	N1-C6-O6	-7.36	115.48	119.90
36	5	651	G	C4-N9-C1'	7.36	136.07	126.50
36	5	1101	G	N3-C2-N2	7.36	125.05	119.90
36	5	2694	A	O5'-P-OP2	7.36	119.54	110.70
36	5	3085	G	C6-C5-N7	7.36	134.82	130.40
36	1	1375	G	O5'-P-OP2	-7.36	99.07	105.70
36	1	1429	G	C5-N7-C8	7.36	107.98	104.30
36	5	673	U	N1-C2-O2	-7.36	117.65	122.80
36	1	802	C	C2-N3-C4	-7.36	116.22	119.90
36	1	1328	C	N3-C4-N4	7.36	123.15	118.00
36	1	2165	G	C6-C5-N7	-7.36	125.98	130.40
36	1	3107	U	C2-N1-C1'	-7.36	108.87	117.70
36	5	424	G	N9-C4-C5	-7.36	102.46	105.40
36	5	864	G	N1-C2-N2	-7.36	109.58	116.20
36	5	941	G	OP1-P-O3'	7.36	121.39	105.20
36	5	3036	G	O5'-P-OP1	7.36	119.53	110.70
1	2	398	G	N3-C4-C5	-7.36	124.92	128.60
36	1	750	G	O5'-P-OP2	-7.36	99.08	105.70
1	6	1758	U	C5-C6-N1	7.36	126.38	122.70
36	5	1897	G	N7-C8-N9	7.36	116.78	113.10
36	1	233	C	C2-N3-C4	-7.36	116.22	119.90
36	5	253	A	O4'-C1'-N9	7.36	114.09	108.20
36	5	1417	G	N3-C4-C5	-7.36	124.92	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	113	U	C6-N1-C2	-7.36	116.58	121.00
36	1	62	A	N1-C6-N6	7.36	123.01	118.60
36	1	386	A	C4-C5-C6	7.36	120.68	117.00
36	1	628	A	C2-N3-C4	-7.36	106.92	110.60
36	1	2813	A	C4-C5-N7	-7.36	107.02	110.70
36	5	869	G	N1-C2-N3	7.36	128.31	123.90
36	5	1131	G	C5-C6-N1	-7.36	107.82	111.50
36	5	3022	G	O4'-C1'-N9	7.36	114.08	108.20
36	1	1192	C	C5-C6-N1	7.35	124.68	121.00
1	6	1313	A	C5-N7-C8	-7.35	100.22	103.90
1	6	1412	G	N1-C6-O6	-7.35	115.49	119.90
1	6	1572	G	C5-N7-C8	-7.35	100.62	104.30
36	5	937	G	O5'-P-OP2	-7.35	99.08	105.70
36	5	2936	A	C2-N3-C4	7.35	114.28	110.60
36	1	2520	A	C5-N7-C8	-7.35	100.22	103.90
1	6	1787	C	O5'-P-OP1	-7.35	99.08	105.70
36	5	2726	C	N3-C4-N4	-7.35	112.85	118.00
36	1	1116	G	N7-C8-N9	7.35	116.78	113.10
36	1	1725	C	C4-C5-C6	7.35	121.08	117.40
36	5	723	U	N3-C2-O2	-7.35	117.05	122.20
36	1	788	C	C5-C6-N1	-7.35	117.33	121.00
36	1	790	U	C5-C4-O4	7.35	130.31	125.90
36	1	1424	C	N3-C4-N4	7.35	123.14	118.00
36	1	3106	A	N1-C6-N6	-7.35	114.19	118.60
36	5	718	G	C8-N9-C1'	-7.35	117.44	127.00
36	5	1437	C	C6-N1-C2	-7.35	117.36	120.30
36	5	1550	C	C6-N1-C2	-7.35	117.36	120.30
36	5	2363	A	C8-N9-C4	-7.35	102.86	105.80
36	5	3050	U	C2-N3-C4	-7.35	122.59	127.00
37	7	97	A	N1-C2-N3	7.35	132.97	129.30
36	1	1376	C	N3-C4-C5	-7.35	118.96	121.90
36	1	2122	G	C4-C5-C6	-7.35	114.39	118.80
36	5	1450	G	C4-N9-C1'	7.35	136.05	126.50
1	2	1172	G	O5'-P-OP1	-7.35	99.09	105.70
36	1	627	U	N3-C2-O2	7.35	127.34	122.20
36	1	2353	G	N9-C4-C5	-7.35	102.46	105.40
38	4	5	U	C2-N1-C1'	-7.35	108.89	117.70
36	5	1714	A	C8-N9-C4	7.35	108.74	105.80
1	2	1654	G	C8-N9-C1'	-7.34	117.45	127.00
36	1	835	G	C5-C6-O6	-7.34	124.19	128.60
1	6	578	U	O4'-C1'-N1	7.34	114.08	108.20
36	5	1332	A	O5'-P-OP1	-7.34	99.09	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2996	U	C2-N3-C4	7.34	131.41	127.00
36	5	3003	G	C4-C5-C6	-7.34	114.39	118.80
36	1	25	U	N1-C2-O2	-7.34	117.66	122.80
36	1	721	G	C5-C6-O6	-7.34	124.19	128.60
36	1	908	G	C6-N1-C2	-7.34	120.69	125.10
36	1	1311	G	C4-C5-N7	-7.34	107.86	110.80
37	7	84	A	N9-C4-C5	7.34	108.74	105.80
1	6	378	A	N1-C6-N6	-7.34	114.19	118.60
1	6	1002	G	C8-N9-C1'	7.34	136.54	127.00
1	6	1124	A	C4-C5-N7	7.34	114.37	110.70
1	6	1512	G	C6-C5-N7	-7.34	126.00	130.40
36	5	614	C	N3-C4-C5	7.34	124.84	121.90
36	5	1477	A	N1-C6-N6	-7.34	114.19	118.60
1	2	1141	G	C5-C6-O6	-7.34	124.20	128.60
36	1	73	C	N3-C4-C5	-7.34	118.96	121.90
36	1	1791	C	C6-N1-C1'	7.34	129.61	120.80
36	1	2193	U	C2-N3-C4	-7.34	122.60	127.00
36	1	2300	G	C5-C6-N1	-7.34	107.83	111.50
36	1	2984	C	C6-N1-C2	-7.34	117.36	120.30
1	6	440	U	C5-C6-N1	-7.34	119.03	122.70
36	5	515	C	N3-C4-C5	7.34	124.84	121.90
36	5	1147	G	N9-C4-C5	-7.34	102.46	105.40
36	5	3080	G	C5-C6-N1	7.34	115.17	111.50
36	1	2363	A	C5-C6-N1	-7.34	114.03	117.70
36	1	421	G	N3-C2-N2	7.34	125.03	119.90
36	1	496	C	C6-N1-C2	-7.34	117.36	120.30
37	3	88	G	N9-C4-C5	7.34	108.33	105.40
1	6	1474	G	N1-C6-O6	7.34	124.30	119.90
36	5	1709	C	C6-N1-C2	7.34	123.23	120.30
36	1	1851	G	N3-C2-N2	-7.33	114.77	119.90
37	3	115	G	C5-C6-N1	7.33	115.17	111.50
36	5	2282	U	N3-C4-C5	7.33	119.00	114.60
1	2	420	A	N1-C6-N6	7.33	123.00	118.60
36	1	649	A	C4-C5-N7	-7.33	107.03	110.70
1	6	389	G	C4-C5-N7	7.33	113.73	110.80
1	6	432	G	N3-C4-N9	7.33	130.40	126.00
1	6	868	G	N1-C6-O6	7.33	124.30	119.90
36	5	330	G	N3-C4-C5	7.33	132.27	128.60
36	5	421	G	N1-C2-N3	7.33	128.30	123.90
36	5	731	U	N1-C2-N3	7.33	119.30	114.90
36	5	1444	G	C6-C5-N7	-7.33	126.00	130.40
36	5	1601	U	N3-C2-O2	-7.33	117.07	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2294	U	N3-C4-O4	-7.33	114.27	119.40
36	5	2610	G	N3-C4-N9	-7.33	121.60	126.00
1	2	1602	C	C6-N1-C2	-7.33	117.37	120.30
36	1	3134	A	C8-N9-C4	-7.33	102.87	105.80
36	5	2873	U	N3-C4-C5	-7.33	110.20	114.60
36	1	2733	A	C5-C6-N1	7.33	121.36	117.70
36	5	1138	U	C4-C5-C6	7.33	124.10	119.70
36	1	424	G	C6-N1-C2	-7.33	120.70	125.10
36	1	652	G	C5-N7-C8	7.33	107.96	104.30
36	1	654	C	C5-C6-N1	-7.33	117.33	121.00
36	1	883	A	N9-C4-C5	7.33	108.73	105.80
36	1	1495	U	C5-C4-O4	7.33	130.30	125.90
36	1	2624	G	C4-C5-N7	7.33	113.73	110.80
36	5	27	C	C6-N1-C2	-7.33	117.37	120.30
36	5	530	G	O5'-P-OP1	-7.33	99.11	105.70
36	5	973	A	C5-C6-N6	-7.33	117.84	123.70
36	5	2817	A	N9-C4-C5	7.33	108.73	105.80
36	5	3025	C	C5-C4-N4	7.33	125.33	120.20
38	8	139	U	N3-C4-O4	-7.33	114.27	119.40
36	1	2311	G	C8-N9-C4	-7.33	103.47	106.40
36	1	3211	C	OP1-P-O3'	7.33	121.32	105.20
1	6	1749	A	N1-C2-N3	7.33	132.96	129.30
36	5	1085	A	C2-N3-C4	-7.33	106.94	110.60
36	1	1321	G	C5-C6-O6	-7.33	124.20	128.60
4	s2	229	LEU	CA-CB-CG	7.33	132.15	115.30
36	1	3174	A	C6-N1-C2	7.32	122.99	118.60
1	6	1002	G	C4-N9-C1'	-7.32	116.98	126.50
36	5	2130	G	C4-N9-C1'	-7.32	116.98	126.50
36	1	1632	A	C8-N9-C4	-7.32	102.87	105.80
36	1	1880	U	N1-C2-N3	7.32	119.29	114.90
36	1	2651	G	C6-C5-N7	-7.32	126.01	130.40
36	5	909	G	C5-C6-N1	-7.32	107.84	111.50
1	2	287	G	O4'-C1'-N9	7.32	114.06	108.20
36	1	2841	G	N3-C4-C5	-7.32	124.94	128.60
36	1	2981	U	N1-C2-O2	7.32	127.92	122.80
1	6	289	U	C6-N1-C2	-7.32	116.61	121.00
1	6	1058	U	P-O3'-C3'	7.32	128.49	119.70
1	6	1101	G	N3-C4-C5	-7.32	124.94	128.60
36	5	1213	G	N1-C2-N3	7.32	128.29	123.90
36	5	3182	G	C4-C5-N7	-7.32	107.87	110.80
1	2	598	U	C5-C6-N1	7.32	126.36	122.70
36	1	2664	C	C4-C5-C6	-7.32	113.74	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	52	A	N1-C2-N3	7.32	132.96	129.30
36	1	519	A	C5-N7-C8	-7.32	100.24	103.90
1	6	27	U	C6-N1-C2	-7.32	116.61	121.00
1	6	565	C	C6-N1-C2	7.32	123.23	120.30
1	6	794	U	C6-N1-C2	-7.32	116.61	121.00
36	5	760	G	C8-N9-C4	7.32	109.33	106.40
36	5	1408	G	C5-C6-N1	-7.32	107.84	111.50
36	5	3028	G	N1-C2-N2	-7.32	109.61	116.20
1	2	1572	G	C4-C5-N7	7.32	113.73	110.80
36	1	2241	U	N1-C2-N3	7.32	119.29	114.90
36	5	183	G	N3-C4-C5	-7.32	124.94	128.60
36	5	926	A	N1-C6-N6	-7.32	114.21	118.60
37	7	99	G	C6-C5-N7	7.32	134.79	130.40
1	6	1408	G	C2-N3-C4	-7.31	108.24	111.90
36	5	640	U	N1-C2-N3	7.31	119.29	114.90
36	5	1298	C	N3-C4-N4	7.31	123.12	118.00
36	1	707	U	N3-C4-C5	-7.31	110.21	114.60
36	1	909	G	C6-C5-N7	-7.31	126.01	130.40
36	1	2691	A	N1-C6-N6	-7.31	114.21	118.60
36	1	2707	C	N3-C4-C5	-7.31	118.97	121.90
36	1	2955	U	OP2-P-O3'	7.31	121.29	105.20
1	6	313	U	N1-C2-N3	7.31	119.29	114.90
36	5	1589	A	C4-C5-C6	7.31	120.66	117.00
36	5	2876	C	C5-C6-N1	7.31	124.66	121.00
36	5	2938	G	C4-C5-N7	7.31	113.72	110.80
37	7	84	A	OP1-P-O3'	7.31	121.29	105.20
36	1	3122	A	N1-C2-N3	-7.31	125.64	129.30
36	5	2817	A	C8-N9-C4	-7.31	102.88	105.80
38	8	2	A	C8-N9-C4	-7.31	102.88	105.80
1	2	1651	A	C6-N1-C2	7.31	122.98	118.60
36	5	421	G	C4-N9-C1'	7.31	136.00	126.50
36	5	1368	U	C5-C4-O4	-7.31	121.51	125.90
36	5	1411	C	N3-C2-O2	-7.31	116.78	121.90
36	5	2288	G	C8-N9-C1'	-7.31	117.50	127.00
36	5	2611	U	N3-C4-O4	7.31	124.52	119.40
36	5	2778	G	N3-C2-N2	-7.31	114.78	119.90
37	7	76	A	N7-C8-N9	-7.31	110.14	113.80
36	1	601	U	N1-C2-O2	7.31	127.92	122.80
36	1	1319	G	N1-C6-O6	-7.31	115.52	119.90
36	1	1406	A	C4-C5-N7	7.31	114.35	110.70
36	1	2610	G	C6-C5-N7	-7.31	126.02	130.40
36	1	2934	A	C6-N1-C2	7.31	122.98	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	93	C	N1-C2-N3	-7.31	114.08	119.20
36	5	2151	C	C2-N1-C1'	-7.31	110.76	118.80
36	5	2833	A	C5-C6-N1	7.31	121.35	117.70
36	5	2965	U	N3-C2-O2	7.31	127.31	122.20
36	1	693	A	C5-C6-N1	-7.30	114.05	117.70
36	1	1192	C	C6-N1-C1'	-7.30	112.03	120.80
36	1	1592	G	C4-N9-C1'	7.30	136.00	126.50
36	1	2382	G	C5-C6-N1	7.30	115.15	111.50
36	1	2803	A	C5-C6-N1	7.30	121.35	117.70
36	1	3326	G	C8-N9-C4	7.30	109.32	106.40
38	4	20	U	OP2-P-O3'	7.30	121.27	105.20
36	5	1010	G	N1-C6-O6	7.30	124.28	119.90
36	5	1443	G	N7-C8-N9	7.30	116.75	113.10
36	5	2754	G	C5-C6-N1	7.30	115.15	111.50
36	5	2993	G	C5-N7-C8	-7.30	100.65	104.30
36	5	3294	A	N9-C4-C5	7.30	108.72	105.80
36	1	1122	U	N3-C2-O2	-7.30	117.09	122.20
36	5	941	G	O5'-P-OP2	-7.30	99.13	105.70
36	5	1277	C	C6-N1-C2	-7.30	117.38	120.30
36	5	2130	G	N1-C2-N2	7.30	122.77	116.20
36	1	813	G	C2-N3-C4	-7.30	108.25	111.90
36	1	3197	G	C2-N3-C4	-7.30	108.25	111.90
1	6	324	U	N3-C2-O2	7.30	127.31	122.20
1	6	634	G	N9-C4-C5	7.30	108.32	105.40
1	6	1557	U	N3-C2-O2	-7.30	117.09	122.20
1	6	1616	G	OP2-P-O3'	7.30	121.26	105.20
1	2	793	A	C8-N9-C4	-7.30	102.88	105.80
36	1	92	G	C5-C6-N1	-7.30	107.85	111.50
36	1	1150	A	N1-C6-N6	-7.30	114.22	118.60
36	1	1420	C	OP2-P-O3'	7.30	121.26	105.20
36	1	1556	C	C5-C4-N4	7.30	125.31	120.20
36	1	2644	C	N1-C2-N3	7.30	124.31	119.20
36	5	1357	G	C8-N9-C4	-7.30	103.48	106.40
36	5	1473	G	C5-C6-O6	-7.30	124.22	128.60
36	5	2108	C	C5-C4-N4	7.30	125.31	120.20
36	5	2869	U	O5'-P-OP1	-7.30	99.13	105.70
36	5	3092	C	C6-N1-C1'	-7.30	112.04	120.80
1	2	49	C	N3-C4-N4	7.30	123.11	118.00
36	1	2651	G	O5'-P-OP1	-7.30	99.13	105.70
1	6	1636	C	O5'-P-OP1	-7.30	99.13	105.70
36	5	2126	A	N3-C4-C5	-7.30	121.69	126.80
36	5	3036	G	N1-C2-N3	7.30	128.28	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3131	U	C5-C6-N1	-7.30	119.05	122.70
1	2	572	C	N1-C2-O2	-7.30	114.52	118.90
36	1	908	G	C6-C5-N7	-7.30	126.02	130.40
36	1	2634	U	C2-N1-C1'	7.30	126.45	117.70
36	5	1319	G	C4-C5-N7	-7.30	107.88	110.80
36	5	2835	U	N1-C2-N3	7.30	119.28	114.90
36	5	3148	U	C5-C6-N1	-7.30	119.05	122.70
36	1	659	G	OP2-P-O3'	7.29	121.25	105.20
36	1	2897	A	C5-C6-N1	7.29	121.35	117.70
1	6	1093	A	N1-C6-N6	-7.29	114.22	118.60
36	5	688	G	N1-C6-O6	7.29	124.28	119.90
1	6	1214	U	N3-C4-O4	7.29	124.51	119.40
36	5	1938	U	C5-C6-N1	-7.29	119.05	122.70
36	1	691	A	C4-C5-N7	7.29	114.35	110.70
1	6	326	G	N1-C6-O6	7.29	124.28	119.90
1	6	995	A	C5-C6-N1	7.29	121.35	117.70
36	5	3214	U	C5-C4-O4	7.29	130.28	125.90
36	1	1176	C	C2-N3-C4	-7.29	116.25	119.90
36	5	1142	G	N7-C8-N9	7.29	116.75	113.10
36	5	2979	U	C2-N1-C1'	-7.29	108.95	117.70
1	2	1460	A	C5-C6-N6	7.29	129.53	123.70
36	1	2895	G	N1-C2-N2	-7.29	109.64	116.20
36	1	1111	U	C2-N3-C4	-7.29	122.63	127.00
36	1	3084	C	C6-N1-C2	-7.29	117.39	120.30
1	6	3	U	C6-N1-C2	7.29	125.37	121.00
1	6	1618	C	N1-C2-O2	7.29	123.27	118.90
36	5	1120	A	C2-N3-C4	-7.29	106.96	110.60
41	14	244	LEU	CA-CB-CG	-7.29	98.54	115.30
1	2	1363	U	C2-N1-C1'	7.29	126.44	117.70
36	1	2956	A	OP1-P-OP2	-7.29	108.67	119.60
36	1	3182	G	N9-C4-C5	-7.29	102.49	105.40
36	1	3252	G	C8-N9-C4	7.29	109.31	106.40
36	5	607	A	N1-C2-N3	7.29	132.94	129.30
36	5	1008	U	N1-C2-N3	-7.29	110.53	114.90
36	5	1850	A	C8-N9-C4	7.29	108.71	105.80
36	5	2826	U	N1-C2-N3	7.29	119.27	114.90
36	1	1330	A	O5'-P-OP1	-7.28	99.14	105.70
36	1	1410	U	O5'-P-OP1	7.28	119.44	110.70
36	1	3046	A	N1-C6-N6	7.28	122.97	118.60
1	6	862	A	C5-C6-N1	7.28	121.34	117.70
36	5	531	G	C8-N9-C1'	-7.28	117.53	127.00
36	5	1178	G	N1-C2-N3	7.28	128.27	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2715	A	C6-N1-C2	-7.28	114.23	118.60
36	1	223	U	O5'-P-OP1	7.28	119.44	110.70
36	1	1520	G	N9-C4-C5	-7.28	102.49	105.40
36	1	1594	A	N3-C4-C5	-7.28	121.70	126.80
36	5	900	G	N9-C4-C5	7.28	108.31	105.40
36	5	3013	U	OP2-P-O3'	7.28	121.22	105.20
36	1	966	U	C6-N1-C2	-7.28	116.63	121.00
36	1	2821	C	C5-C6-N1	7.28	124.64	121.00
1	6	1543	A	N1-C2-N3	7.28	132.94	129.30
1	2	1109	G	C4-C5-N7	7.28	113.71	110.80
36	1	89	A	C6-N1-C2	-7.28	114.23	118.60
36	1	1402	C	C5-C6-N1	-7.28	117.36	121.00
36	1	936	A	C4-N9-C1'	-7.28	113.20	126.30
36	1	1209	G	N3-C4-C5	-7.28	124.96	128.60
36	1	2238	G	N1-C2-N3	-7.28	119.53	123.90
36	1	3216	G	C8-N9-C1'	-7.28	117.54	127.00
1	6	1787	C	N3-C4-C5	-7.28	118.99	121.90
1	2	360	A	C5-N7-C8	-7.28	100.26	103.90
36	1	903	U	N1-C2-N3	7.28	119.27	114.90
1	6	1308	G	O5'-P-OP2	-7.28	99.15	105.70
36	5	631	U	N3-C4-O4	7.28	124.49	119.40
36	5	2808	A	C5-N7-C8	-7.28	100.26	103.90
1	2	1245	G	C2-N3-C4	7.27	115.54	111.90
1	2	1463	C	C6-N1-C2	7.27	123.21	120.30
36	1	1364	C	OP2-P-O3'	7.27	121.20	105.20
36	1	2715	A	O5'-P-OP1	-7.27	99.15	105.70
36	1	3263	G	C4-N9-C1'	7.27	135.96	126.50
1	6	1478	G	C8-N9-C1'	-7.27	117.54	127.00
36	5	187	A	N7-C8-N9	7.27	117.44	113.80
36	5	567	G	C5-N7-C8	-7.27	100.66	104.30
36	5	2991	A	C2-N3-C4	7.27	114.24	110.60
36	5	3373	U	N1-C2-O2	-7.27	117.71	122.80
36	1	833	G	N9-C4-C5	7.27	108.31	105.40
36	5	2952	G	C5-C6-O6	-7.27	124.24	128.60
36	1	427	C	C5-C6-N1	7.27	124.64	121.00
36	1	1393	A	C6-N1-C2	-7.27	114.24	118.60
36	1	2311	G	N7-C8-N9	7.27	116.73	113.10
36	1	2968	G	OP1-P-OP2	-7.27	108.70	119.60
36	1	3197	G	N3-C4-N9	-7.27	121.64	126.00
1	6	526	A	C2-N3-C4	-7.27	106.97	110.60
36	5	406	G	N3-C4-C5	7.27	132.24	128.60
36	5	1365	G	N1-C2-N3	7.27	128.26	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1870	C	N3-C4-N4	7.27	123.09	118.00
36	5	2135	U	O5'-P-OP2	-7.27	99.16	105.70
36	5	2874	G	N7-C8-N9	7.27	116.73	113.10
36	5	3196	U	O5'-P-OP1	7.27	119.42	110.70
36	1	2376	G	C8-N9-C4	-7.27	103.49	106.40
38	4	19	C	C4-C5-C6	7.27	121.03	117.40
36	5	771	A	C8-N9-C4	7.27	108.71	105.80
36	5	1136	A	C4-C5-C6	7.27	120.63	117.00
36	5	1444	G	C4-N9-C1'	7.27	135.95	126.50
36	5	2312	A	C5-C6-N6	7.27	129.51	123.70
36	5	2401	A	O4'-C1'-N9	7.27	114.01	108.20
36	1	948	C	N3-C4-C5	-7.27	118.99	121.90
36	5	404	G	C6-C5-N7	-7.27	126.04	130.40
36	1	787	G	N3-C4-C5	-7.26	124.97	128.60
1	6	606	A	O5'-P-OP1	-7.26	99.16	105.70
1	6	1083	G	N7-C8-N9	7.26	116.73	113.10
36	5	217	U	OP1-P-O3'	7.26	121.18	105.20
36	5	905	U	O5'-P-OP1	-7.26	99.16	105.70
36	5	1143	A	O5'-P-OP1	-7.26	99.16	105.70
36	5	1160	C	O5'-P-OP2	-7.26	99.16	105.70
36	5	1918	C	C4-C5-C6	7.26	121.03	117.40
36	5	2726	C	N3-C4-C5	-7.26	119.00	121.90
36	1	1125	U	C6-N1-C2	-7.26	116.64	121.00
36	5	3217	C	C5-C6-N1	-7.26	117.37	121.00
36	1	1429	G	O4'-C1'-N9	-7.26	102.39	108.20
36	5	396	A	N1-C6-N6	-7.26	114.24	118.60
36	5	3081	C	C6-N1-C2	7.26	123.20	120.30
36	5	3245	A	O5'-P-OP2	7.26	119.41	110.70
40	l3	196	ARG	NE-CZ-NH1	7.26	123.93	120.30
46	l9	184	LYS	CD-CE-NZ	7.26	128.40	111.70
36	1	537	A	C2-N3-C4	-7.26	106.97	110.60
1	6	925	G	C8-N9-C4	-7.26	103.50	106.40
1	6	1002	G	O5'-P-OP1	-7.26	99.17	105.70
36	5	2409	G	N1-C6-O6	7.26	124.26	119.90
19	C7	85	VAL	C-N-CD	-7.26	104.63	120.60
36	1	1361	U	N1-C2-O2	-7.26	117.72	122.80
1	6	1271	G	C6-C5-N7	-7.26	126.05	130.40
1	6	1465	C	C4-C5-C6	7.26	121.03	117.40
1	6	1552	U	C5-C6-N1	7.26	126.33	122.70
36	5	1302	A	N9-C4-C5	7.26	108.70	105.80
36	5	2856	G	N1-C6-O6	7.26	124.25	119.90
36	5	2911	A	C6-N1-C2	-7.26	114.25	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3054	U	C6-N1-C1'	7.26	131.36	121.20
36	1	656	A	C6-N1-C2	-7.26	114.25	118.60
36	1	1514	G	N3-C4-C5	-7.26	124.97	128.60
36	1	1870	C	C6-N1-C2	7.26	123.20	120.30
1	6	1019	A	N7-C8-N9	-7.26	110.17	113.80
36	5	61	A	N9-C4-C5	7.26	108.70	105.80
36	5	132	C	N3-C4-C5	-7.26	119.00	121.90
36	5	298	U	O5'-P-OP2	-7.26	99.17	105.70
36	5	521	A	N3-C4-N9	-7.26	121.59	127.40
36	5	1043	C	C6-N1-C2	7.26	123.20	120.30
36	1	2196	C	N3-C4-C5	7.25	124.80	121.90
36	1	2748	A	C2-N3-C4	-7.25	106.97	110.60
36	1	2939	G	C4-N9-C1'	7.25	135.93	126.50
1	6	1139	A	C2-N3-C4	7.25	114.23	110.60
36	1	45	A	C5-N7-C8	-7.25	100.27	103.90
36	1	944	C	N1-C2-O2	-7.25	114.55	118.90
36	1	1482	A	C5-N7-C8	-7.25	100.27	103.90
36	1	2326	A	N1-C2-N3	7.25	132.93	129.30
36	1	3181	C	N3-C4-C5	-7.25	119.00	121.90
38	4	53	A	C2-N3-C4	7.25	114.23	110.60
1	6	1639	C	C5-C4-N4	-7.25	115.12	120.20
36	5	2764	C	C4-C5-C6	-7.25	113.77	117.40
36	1	57	A	C5-C6-N1	-7.25	114.08	117.70
36	1	348	A	C2-N3-C4	-7.25	106.97	110.60
36	1	828	A	C8-N9-C4	-7.25	102.90	105.80
36	1	952	A	N3-C4-N9	-7.25	121.60	127.40
1	6	419	G	C5-C6-O6	-7.25	124.25	128.60
1	6	616	G	C8-N9-C4	-7.25	103.50	106.40
36	5	2629	U	C5-C6-N1	-7.25	119.08	122.70
36	5	3326	G	N9-C4-C5	-7.25	102.50	105.40
36	1	344	A	N3-C4-N9	-7.25	121.60	127.40
36	1	578	A	OP1-P-OP2	7.25	130.47	119.60
36	1	978	G	N3-C4-C5	7.25	132.22	128.60
36	5	925	A	O5'-P-OP1	-7.25	99.17	105.70
36	1	878	G	N9-C4-C5	7.25	108.30	105.40
36	1	2918	G	C5-C6-O6	-7.25	124.25	128.60
1	6	1672	G	O5'-P-OP2	-7.25	99.18	105.70
36	5	356	C	N1-C2-N3	7.25	124.28	119.20
36	5	934	G	C4-C5-N7	7.25	113.70	110.80
36	5	1478	C	C4-C5-C6	-7.25	113.78	117.40
36	5	3337	G	C6-C5-N7	-7.25	126.05	130.40
1	2	1291	G	N1-C2-N3	7.25	128.25	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1292	C	C6-N1-C2	7.25	123.20	120.30
36	1	1306	G	N7-C8-N9	7.25	116.72	113.10
36	1	1365	G	OP1-P-OP2	-7.25	108.73	119.60
36	1	2788	C	O5'-P-OP1	-7.25	99.18	105.70
1	6	1547	A	C2-N3-C4	-7.25	106.98	110.60
36	5	888	A	N1-C2-N3	7.25	132.92	129.30
36	5	2765	C	C6-N1-C2	-7.25	117.40	120.30
36	5	2972	G	C8-N9-C4	7.25	109.30	106.40
36	5	3180	A	C8-N9-C4	7.25	108.70	105.80
37	7	15	C	N3-C4-C5	-7.25	119.00	121.90
36	1	2851	A	O4'-C1'-N9	7.25	114.00	108.20
36	1	3076	C	C5-C6-N1	7.25	124.62	121.00
36	5	610	G	N1-C6-O6	-7.25	115.55	119.90
36	5	1049	C	C2-N3-C4	7.25	123.52	119.90
36	5	1164	G	N9-C4-C5	7.25	108.30	105.40
36	5	3235	C	C6-N1-C2	7.25	123.20	120.30
36	1	794	U	O5'-P-OP2	-7.24	99.18	105.70
36	1	3328	G	C4-C5-N7	7.24	113.70	110.80
36	5	878	G	C8-N9-C4	-7.24	103.50	106.40
36	5	916	G	O5'-P-OP1	-7.24	99.18	105.70
36	5	1845	G	C6-N1-C2	-7.24	120.75	125.10
36	5	3142	A	N1-C2-N3	7.24	132.92	129.30
36	1	904	A	N1-C2-N3	7.24	132.92	129.30
36	1	949	C	N3-C4-C5	-7.24	119.00	121.90
36	5	1389	G	C5-C6-O6	-7.24	124.25	128.60
36	5	2993	G	O5'-P-OP1	-7.24	99.18	105.70
36	1	1102	A	C2-N3-C4	-7.24	106.98	110.60
36	1	1316	C	N3-C4-C5	-7.24	119.00	121.90
36	1	1547	G	C8-N9-C1'	-7.24	117.59	127.00
1	6	1539	G	O4'-C1'-N9	-7.24	102.41	108.20
36	5	801	A	O4'-C1'-N9	-7.24	102.41	108.20
36	5	1385	C	C5-C6-N1	7.24	124.62	121.00
36	5	2283	G	N3-C4-C5	7.24	132.22	128.60
36	5	2929	C	N3-C4-N4	7.24	123.07	118.00
36	1	206	G	N9-C4-C5	-7.24	102.50	105.40
36	1	853	G	N1-C6-O6	-7.24	115.56	119.90
36	1	1466	G	N3-C4-N9	7.24	130.34	126.00
36	1	2838	A	N1-C2-N3	7.24	132.92	129.30
36	5	972	A	C8-N9-C4	-7.24	102.90	105.80
36	1	105	C	N3-C4-C5	7.24	124.80	121.90
36	1	215	G	C8-N9-C4	-7.24	103.50	106.40
36	1	2801	A	N1-C6-N6	7.24	122.94	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	65	G	OP2-P-O3'	7.24	121.12	105.20
36	1	636	C	C5-C4-N4	-7.24	115.13	120.20
36	1	937	G	C2-N3-C4	-7.24	108.28	111.90
36	1	2983	C	N3-C4-N4	-7.24	112.94	118.00
36	1	3216	G	N1-C6-O6	7.23	124.24	119.90
36	1	67	A	N1-C6-N6	-7.23	114.26	118.60
36	1	1794	G	C4-C5-N7	-7.23	107.91	110.80
36	5	41	G	C5-N7-C8	-7.23	100.68	104.30
36	5	992	A	C5-C6-N1	-7.23	114.08	117.70
36	5	3119	U	C6-N1-C2	-7.23	116.66	121.00
38	8	107	G	C5-C6-O6	-7.23	124.26	128.60
36	1	1435	A	O5'-P-OP1	-7.23	99.19	105.70
1	6	1099	U	N3-C2-O2	-7.23	117.14	122.20
36	5	1517	G	C2-N3-C4	-7.23	108.28	111.90
36	5	3330	A	N3-C4-C5	-7.23	121.74	126.80
36	1	2847	A	N1-C6-N6	7.23	122.94	118.60
1	6	448	C	N1-C2-O2	-7.23	114.56	118.90
36	5	641	C	C2-N3-C4	-7.23	116.28	119.90
36	5	1765	U	C6-N1-C2	-7.23	116.66	121.00
37	7	102	A	C5-C6-N6	-7.23	117.92	123.70
36	1	2300	G	C2-N3-C4	-7.23	108.29	111.90
36	1	2345	A	O5'-P-OP2	-7.23	99.20	105.70
36	1	2877	G	N3-C2-N2	-7.23	114.84	119.90
36	5	613	G	C2-N3-C4	-7.23	108.29	111.90
36	5	2396	G	N1-C6-O6	-7.23	115.56	119.90
36	5	2850	G	N7-C8-N9	-7.23	109.49	113.10
36	5	3232	G	O5'-P-OP1	7.23	119.37	110.70
36	1	1321	G	O5'-P-OP2	-7.23	99.20	105.70
38	4	109	A	C5-C6-N6	-7.23	117.92	123.70
36	1	875	G	N1-C2-N3	7.22	128.24	123.90
36	1	954	U	OP2-P-O3'	7.22	121.09	105.20
36	1	973	A	N3-C4-N9	-7.22	121.62	127.40
36	1	2647	A	C5-C6-N6	-7.22	117.92	123.70
36	1	2799	A	C8-N9-C4	-7.22	102.91	105.80
36	1	517	G	N7-C8-N9	7.22	116.71	113.10
36	1	2257	C	O4'-C1'-N1	7.22	113.98	108.20
36	1	2394	G	C6-C5-N7	7.22	134.73	130.40
36	1	2606	G	C8-N9-C4	-7.22	103.51	106.40
1	6	511	A	C8-N9-C4	7.22	108.69	105.80
1	6	752	A	N9-C4-C5	-7.22	102.91	105.80
1	6	1596	C	C6-N1-C2	7.22	123.19	120.30
36	5	2617	U	N1-C2-N3	7.22	119.23	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2887	A	N3-C4-C5	-7.22	121.74	126.80
1	2	111	U	C6-N1-C1'	-7.22	111.09	121.20
36	1	3046	A	C5-C6-N6	-7.22	117.92	123.70
36	5	560	G	N9-C4-C5	7.22	108.29	105.40
36	5	2916	U	N3-C4-C5	7.22	118.93	114.60
1	2	1272	U	C5-C4-O4	7.22	130.23	125.90
36	1	1137	C	C2-N1-C1'	7.22	126.74	118.80
36	1	1651	U	OP1-P-OP2	-7.22	108.77	119.60
36	1	2661	G	N9-C4-C5	-7.22	102.51	105.40
36	1	3262	U	N1-C2-N3	7.22	119.23	114.90
36	5	751	A	O5'-P-OP2	-7.22	99.20	105.70
36	5	1156	C	C2-N1-C1'	7.22	126.74	118.80
36	5	1389	G	C4-C5-N7	7.22	113.69	110.80
36	1	701	G	C5-C6-N1	-7.22	107.89	111.50
36	1	1152	G	N3-C4-C5	-7.22	124.99	128.60
1	6	16	G	C5-C6-O6	-7.22	124.27	128.60
1	6	884	A	N1-C6-N6	7.22	122.93	118.60
36	5	3103	A	N1-C2-N3	7.22	132.91	129.30
36	1	1312	C	C2-N3-C4	7.22	123.51	119.90
1	6	144	U	O5'-P-OP1	-7.22	99.20	105.70
1	6	1426	C	N3-C2-O2	7.22	126.95	121.90
36	5	2847	A	C4-C5-N7	7.22	114.31	110.70
1	2	18	C	N3-C4-N4	7.21	123.05	118.00
36	1	81	C	N3-C4-C5	-7.21	119.01	121.90
36	1	89	A	C4-C5-C6	7.21	120.61	117.00
36	1	594	U	C4-C5-C6	7.21	124.03	119.70
38	4	16	G	C6-C5-N7	-7.21	126.07	130.40
1	6	393	C	C4-C5-C6	-7.21	113.79	117.40
36	5	217	U	N1-C2-N3	7.21	119.23	114.90
36	5	869	G	C2-N3-C4	-7.21	108.29	111.90
36	5	942	U	C4-C5-C6	7.21	124.03	119.70
36	5	1786	G	C4-C5-N7	7.21	113.69	110.80
36	5	2735	U	C6-N1-C2	-7.21	116.67	121.00
36	5	2757	U	N3-C2-O2	-7.21	117.15	122.20
36	1	39	A	C5-C6-N6	-7.21	117.93	123.70
36	1	2982	A	C5-C6-N6	-7.21	117.93	123.70
1	6	919	A	N1-C6-N6	7.21	122.93	118.60
36	5	856	G	N3-C4-C5	-7.21	124.99	128.60
36	5	1379	G	N3-C4-N9	7.21	130.33	126.00
36	5	3060	C	C5-C4-N4	-7.21	115.15	120.20
37	7	22	A	N1-C2-N3	7.21	132.91	129.30
1	2	1270	G	C8-N9-C4	-7.21	103.52	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	751	A	N7-C8-N9	7.21	117.41	113.80
36	1	856	G	N1-C6-O6	-7.21	115.57	119.90
36	1	908	G	C8-N9-C1'	-7.21	117.62	127.00
36	1	2760	C	N1-C2-O2	-7.21	114.57	118.90
36	1	2870	C	C6-N1-C2	7.21	123.19	120.30
36	5	2864	A	O5'-P-OP2	7.21	119.35	110.70
36	1	1305	U	N3-C4-C5	-7.21	110.27	114.60
36	1	2704	A	N9-C4-C5	7.21	108.68	105.80
36	5	2237	C	C6-N1-C2	-7.21	117.42	120.30
36	5	2284	C	O5'-P-OP2	7.21	119.35	110.70
1	2	116	U	N3-C2-O2	-7.21	117.16	122.20
36	1	221	A	O5'-P-OP2	-7.21	99.21	105.70
36	1	721	G	N1-C6-O6	7.21	124.22	119.90
36	1	953	G	C8-N9-C4	7.21	109.28	106.40
36	1	962	A	C6-N1-C2	-7.21	114.27	118.60
36	1	1491	A	C4-C5-C6	7.21	120.61	117.00
36	1	3201	C	O5'-P-OP1	-7.21	99.21	105.70
36	1	3208	G	C5-C6-N1	7.21	115.10	111.50
15	c3	149	LEU	CA-CB-CG	7.21	131.88	115.30
36	5	2401	A	C5-C6-N1	-7.21	114.10	117.70
36	5	2728	G	OP1-P-OP2	7.21	130.41	119.60
36	5	3175	U	C5-C4-O4	7.21	130.23	125.90
36	1	1398	U	C5-C6-N1	-7.21	119.10	122.70
36	1	2872	A	C2-N3-C4	7.21	114.20	110.60
1	6	313	U	C4-C5-C6	7.21	124.02	119.70
1	6	1074	G	C5-C6-N1	-7.21	107.90	111.50
36	5	2298	U	OP1-P-OP2	7.21	130.41	119.60
36	5	2390	A	OP1-P-OP2	7.21	130.41	119.60
36	1	705	A	C8-N9-C4	7.21	108.68	105.80
1	6	797	G	C8-N9-C4	7.21	109.28	106.40
36	1	439	C	C6-N1-C1'	-7.20	112.16	120.80
36	1	1834	U	C2-N1-C1'	-7.20	109.06	117.70
36	1	2291	A	N7-C8-N9	7.20	117.40	113.80
36	1	2346	C	N3-C4-C5	-7.20	119.02	121.90
36	5	1162	U	O5'-P-OP2	-7.20	99.22	105.70
36	5	1165	A	O5'-P-OP1	-7.20	99.22	105.70
36	5	2710	C	N3-C2-O2	7.20	126.94	121.90
1	2	610	G	N3-C4-N9	7.20	130.32	126.00
1	6	980	G	N9-C4-C5	-7.20	102.52	105.40
36	5	55	G	C6-C5-N7	-7.20	126.08	130.40
36	5	1308	A	N1-C2-N3	-7.20	125.70	129.30
1	2	1565	C	N1-C2-O2	-7.20	114.58	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	628	A	C6-N1-C2	-7.20	114.28	118.60
36	5	2403	G	C6-C5-N7	-7.20	126.08	130.40
36	5	2853	A	N9-C4-C5	-7.20	102.92	105.80
36	5	2967	A	N1-C2-N3	7.20	132.90	129.30
36	5	3062	G	C5-C6-O6	-7.20	124.28	128.60
38	8	138	A	C6-N1-C2	-7.20	114.28	118.60
1	2	1279	C	C6-N1-C2	-7.20	117.42	120.30
36	1	1876	U	C2-N1-C1'	7.20	126.34	117.70
36	1	2646	C	O5'-P-OP2	-7.20	99.22	105.70
38	4	44	A	C8-N9-C4	-7.20	102.92	105.80
1	6	1271	G	C4-N9-C1'	7.20	135.86	126.50
36	5	35	A	C5-C6-N6	7.20	129.46	123.70
36	5	96	G	N3-C4-N9	-7.20	121.68	126.00
36	5	1327	C	C2-N3-C4	-7.20	116.30	119.90
36	5	1378	U	N3-C2-O2	7.20	127.24	122.20
36	5	1923	C	C6-N1-C2	-7.20	117.42	120.30
36	5	2757	U	C6-N1-C2	-7.20	116.68	121.00
36	5	3390	G	C5-C6-N1	-7.20	107.90	111.50
36	1	635	G	C6-N1-C2	-7.20	120.78	125.10
36	1	1307	G	O5'-P-OP2	-7.20	99.22	105.70
36	1	2963	C	C2-N1-C1'	7.20	126.72	118.80
1	6	858	G	C4-N9-C1'	7.20	135.86	126.50
36	5	1102	A	N1-C2-N3	7.20	132.90	129.30
36	5	1422	G	C5-N7-C8	-7.20	100.70	104.30
36	1	416	A	C4-C5-C6	7.20	120.60	117.00
36	1	1456	A	N1-C6-N6	-7.20	114.28	118.60
36	1	1547	G	N3-C2-N2	7.20	124.94	119.90
36	1	1549	U	N1-C2-O2	-7.20	117.76	122.80
36	1	2923	U	C2-N1-C1'	-7.20	109.07	117.70
1	6	431	C	C6-N1-C1'	7.20	129.44	120.80
36	5	1478	C	N3-C2-O2	7.19	126.94	121.90
36	5	2391	G	N7-C8-N9	-7.19	109.50	113.10
37	7	37	G	C6-C5-N7	-7.19	126.08	130.40
1	2	1594	G	C5-C6-O6	-7.19	124.28	128.60
36	1	1049	C	N3-C4-C5	7.19	124.78	121.90
36	1	1225	A	C8-N9-C4	7.19	108.68	105.80
1	6	1368	G	N9-C4-C5	-7.19	102.52	105.40
36	5	1884	A	N1-C2-N3	7.19	132.90	129.30
36	5	3219	G	C5-C6-N1	7.19	115.10	111.50
1	2	1462	G	N3-C4-C5	7.19	132.19	128.60
36	1	1431	G	C5-N7-C8	7.19	107.89	104.30
36	1	2940	A	C2-N3-C4	7.19	114.20	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	23	U	N3-C4-C5	-7.19	110.29	114.60
1	6	294	C	C4-C5-C6	7.19	121.00	117.40
36	5	1598	G	C5-C6-N1	7.19	115.09	111.50
36	5	2549	G	N1-C6-O6	7.19	124.21	119.90
36	5	2670	G	N1-C6-O6	7.19	124.21	119.90
36	5	3322	A	C5-C6-N1	-7.19	114.11	117.70
36	1	1442	U	C5-C6-N1	7.19	126.29	122.70
36	5	1114	U	N1-C2-O2	-7.19	117.77	122.80
36	5	3177	G	N1-C6-O6	-7.19	115.59	119.90
36	1	425	G	OP1-P-OP2	-7.19	108.82	119.60
36	1	3220	G	N1-C6-O6	-7.19	115.59	119.90
1	6	1572	G	C4-C5-N7	7.19	113.67	110.80
36	5	520	U	N3-C2-O2	-7.19	117.17	122.20
36	5	864	G	N3-C2-N2	7.19	124.93	119.90
36	5	3221	C	N3-C2-O2	-7.19	116.87	121.90
36	1	3086	A	C4-C5-C6	7.19	120.59	117.00
36	5	95	A	N3-C4-C5	7.19	131.83	126.80
36	5	646	A	N1-C6-N6	-7.19	114.29	118.60
36	5	2396	G	C6-N1-C2	-7.19	120.79	125.10
1	2	1745	G	C5-C6-N1	7.18	115.09	111.50
36	1	688	G	N3-C4-C5	-7.18	125.01	128.60
36	1	1397	C	C2-N3-C4	-7.18	116.31	119.90
36	1	1411	C	OP1-P-O3'	7.18	121.00	105.20
36	5	2690	G	N3-C4-N9	-7.18	121.69	126.00
36	1	421	G	N1-C2-N2	-7.18	109.74	116.20
36	1	1104	G	O5'-P-OP1	-7.18	99.24	105.70
36	1	1881	A	C6-N1-C2	-7.18	114.29	118.60
36	1	2400	G	C5-C6-N1	-7.18	107.91	111.50
36	1	2979	U	N1-C1'-C2'	7.18	123.34	114.00
1	6	1111	G	C6-N1-C2	-7.18	120.79	125.10
1	6	1478	G	C6-C5-N7	-7.18	126.09	130.40
36	5	1107	C	N1-C2-N3	7.18	124.23	119.20
36	5	2817	A	N3-C4-C5	-7.18	121.77	126.80
36	1	2108	C	C6-N1-C2	7.18	123.17	120.30
36	1	3144	G	OP2-P-O3'	7.18	121.00	105.20
36	5	1291	A	N1-C6-N6	-7.18	114.29	118.60
36	1	615	U	N1-C2-N3	7.18	119.21	114.90
36	1	709	A	C8-N9-C4	7.18	108.67	105.80
36	1	1411	C	N3-C4-C5	7.18	124.77	121.90
36	1	2914	G	C5-C6-N1	-7.18	107.91	111.50
1	6	1375	A	C2-N3-C4	-7.18	107.01	110.60
36	5	935	U	O5'-P-OP2	-7.18	99.24	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2115	G	C5-C6-O6	-7.18	124.29	128.60
36	5	3320	A	C4-C5-C6	7.18	120.59	117.00
36	1	751	A	C6-N1-C2	-7.18	114.29	118.60
36	1	3256	G	N1-C6-O6	7.18	124.21	119.90
36	5	426	G	C5-C6-N1	7.18	115.09	111.50
36	5	1048	A	C8-N9-C4	-7.18	102.93	105.80
36	5	1196	C	O4'-C1'-N1	7.18	113.94	108.20
36	5	1332	A	N1-C2-N3	7.18	132.89	129.30
36	5	2386	A	C6-C5-N7	-7.18	127.28	132.30
36	1	999	G	C5-C6-O6	-7.18	124.29	128.60
36	1	1552	G	N9-C4-C5	-7.18	102.53	105.40
36	5	2816	G	N1-C2-N2	7.18	122.66	116.20
36	5	2897	A	C8-N9-C1'	-7.18	114.78	127.70
1	2	1085	G	N3-C2-N2	7.17	124.92	119.90
36	1	696	C	C4-C5-C6	-7.17	113.81	117.40
36	1	952	A	C2-N3-C4	-7.17	107.01	110.60
36	1	1157	G	C2-N3-C4	-7.17	108.31	111.90
36	1	1400	G	C4-C5-C6	7.17	123.11	118.80
1	6	977	A	N1-C6-N6	7.17	122.91	118.60
36	5	321	C	C6-N1-C1'	-7.17	112.19	120.80
36	5	331	G	N1-C6-O6	7.17	124.20	119.90
36	5	425	G	N9-C4-C5	7.17	108.27	105.40
36	5	691	A	N1-C6-N6	-7.17	114.30	118.60
38	8	101	U	N1-C2-N3	7.17	119.20	114.90
36	1	838	G	C5-C6-N1	-7.17	107.91	111.50
36	1	2841	G	N3-C4-N9	7.17	130.30	126.00
1	6	275	C	C6-N1-C2	-7.17	117.43	120.30
1	6	1123	C	C5-C4-N4	-7.17	115.18	120.20
1	6	1201	G	N3-C4-N9	-7.17	121.70	126.00
36	5	3332	U	N1-C2-O2	-7.17	117.78	122.80
36	1	2225	U	O5'-P-OP2	-7.17	99.25	105.70
1	6	397	A	C2-N3-C4	-7.17	107.01	110.60
1	6	583	C	N3-C4-C5	-7.17	119.03	121.90
1	6	1605	G	OP2-P-O3'	7.17	120.98	105.20
1	6	1780	G	N3-C4-N9	7.17	130.30	126.00
36	5	403	C	N1-C2-O2	-7.17	114.60	118.90
36	5	519	A	C4-C5-C6	7.17	120.58	117.00
36	5	1061	A	C5-C6-N1	7.17	121.28	117.70
36	5	1293	U	O5'-P-OP2	7.17	119.31	110.70
36	5	1433	A	C5-C6-N6	-7.17	117.96	123.70
36	5	2207	A	C2-N3-C4	-7.17	107.01	110.60
36	1	287	G	C6-C5-N7	-7.17	126.10	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	725	G	C8-N9-C4	7.17	109.27	106.40
36	1	2185	G	N9-C4-C5	-7.17	102.53	105.40
36	1	2931	C	C5-C6-N1	-7.17	117.42	121.00
1	6	48	G	C5-C6-O6	7.17	132.90	128.60
1	6	595	G	C8-N9-C4	-7.17	103.53	106.40
1	6	595	G	N7-C8-N9	7.17	116.68	113.10
36	5	1443	G	C8-N9-C4	-7.17	103.53	106.40
36	5	1452	A	O5'-P-OP1	-7.17	99.25	105.70
37	7	75	G	C5-C6-N1	-7.17	107.92	111.50
36	1	385	A	N1-C6-N6	-7.17	114.30	118.60
36	1	838	G	N1-C6-O6	7.17	124.20	119.90
36	1	2803	A	C6-N1-C2	-7.17	114.30	118.60
1	6	460	A	C8-N9-C4	-7.17	102.93	105.80
1	6	1610	G	C6-C5-N7	-7.17	126.10	130.40
36	1	313	A	N1-C6-N6	7.17	122.90	118.60
36	1	660	A	C8-N9-C4	-7.17	102.93	105.80
36	5	507	U	N1-C2-N3	7.17	119.20	114.90
36	5	1590	G	N7-C8-N9	-7.17	109.52	113.10
36	5	3366	G	C8-N9-C4	-7.17	103.53	106.40
36	1	1552	G	C5-C6-O6	-7.16	124.30	128.60
36	1	2799	A	C2-N3-C4	-7.16	107.02	110.60
1	6	175	G	N9-C4-C5	-7.16	102.53	105.40
1	6	611	U	C2-N1-C1'	7.16	126.30	117.70
1	6	788	A	N7-C8-N9	-7.16	110.22	113.80
36	5	1148	G	N1-C6-O6	7.16	124.20	119.90
36	5	1408	G	C4-N9-C1'	7.16	135.81	126.50
36	5	1592	G	C4-N9-C1'	7.16	135.81	126.50
36	5	3115	C	C2-N3-C4	-7.16	116.32	119.90
36	5	3220	G	C5-C6-O6	7.16	132.90	128.60
36	5	3303	G	N9-C4-C5	7.16	108.27	105.40
37	7	37	G	N3-C4-C5	-7.16	125.02	128.60
36	1	3100	U	N1-C2-N3	-7.16	110.60	114.90
1	6	389	G	C5-C6-O6	-7.16	124.30	128.60
36	5	1906	G	N1-C2-N2	-7.16	109.75	116.20
36	5	2917	G	O5'-P-OP2	-7.16	99.25	105.70
1	2	577	G	C5-N7-C8	-7.16	100.72	104.30
1	2	1454	G	N7-C8-N9	-7.16	109.52	113.10
36	1	1482	A	C6-C5-N7	-7.16	127.29	132.30
36	1	2315	G	C8-N9-C4	-7.16	103.54	106.40
36	1	2398	A	C5-N7-C8	7.16	107.48	103.90
1	6	1023	A	C8-N9-C4	-7.16	102.94	105.80
1	6	1340	U	N3-C4-O4	-7.16	114.39	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	517	G	C2-N3-C4	-7.16	108.32	111.90
36	5	675	C	C5-C6-N1	7.16	124.58	121.00
36	5	1367	G	N3-C4-C5	-7.16	125.02	128.60
36	5	1922	A	C8-N9-C4	7.16	108.66	105.80
36	5	2742	C	O5'-P-OP2	-7.16	99.26	105.70
1	2	554	C	N3-C2-O2	-7.16	116.89	121.90
36	1	1592	G	C4-C5-N7	-7.16	107.94	110.80
36	1	2981	U	O5'-P-OP2	-7.16	99.26	105.70
1	6	342	C	N3-C4-C5	-7.16	119.04	121.90
36	5	2110	G	C5-C6-N1	7.16	115.08	111.50
36	5	2150	G	C8-N9-C4	-7.16	103.54	106.40
36	5	2419	A	OP1-P-OP2	-7.16	108.86	119.60
36	5	2664	C	C5-C4-N4	-7.16	115.19	120.20
36	5	2896	A	N1-C6-N6	7.16	122.89	118.60
36	1	640	U	N3-C2-O2	7.16	127.21	122.20
36	1	1166	G	C8-N9-C4	7.16	109.26	106.40
36	1	426	G	C8-N9-C4	7.16	109.26	106.40
36	1	1365	G	C8-N9-C4	-7.16	103.54	106.40
36	1	1547	G	N9-C4-C5	-7.16	102.54	105.40
36	1	1607	U	N1-C2-O2	7.16	127.81	122.80
37	3	25	G	C4-N9-C1'	7.16	135.80	126.50
1	6	119	A	N1-C2-N3	7.16	132.88	129.30
36	5	2964	G	N1-C6-O6	-7.16	115.61	119.90
36	1	1508	C	N1-C2-N3	7.15	124.21	119.20
36	1	2887	A	C2-N3-C4	7.15	114.18	110.60
36	1	3319	U	N1-C2-O2	7.15	127.81	122.80
36	5	3308	C	O5'-P-OP2	-7.15	99.26	105.70
36	1	643	U	N3-C4-O4	7.15	124.41	119.40
36	1	1191	U	N3-C2-O2	7.15	127.21	122.20
36	1	1337	A	C5-C6-N1	7.15	121.28	117.70
36	1	3383	G	N3-C2-N2	-7.15	114.89	119.90
1	6	337	G	C8-N9-C4	-7.15	103.54	106.40
1	6	630	A	C6-C5-N7	-7.15	127.29	132.30
36	5	1203	A	C6-C5-N7	-7.15	127.29	132.30
36	1	301	G	C8-N9-C4	-7.15	103.54	106.40
36	1	2179	C	N1-C2-O2	7.15	123.19	118.90
36	1	2211	U	O5'-P-OP1	-7.15	99.26	105.70
36	1	2368	A	C2-N3-C4	7.15	114.17	110.60
1	6	1012	U	N3-C2-O2	-7.15	117.19	122.20
36	5	1159	A	N1-C6-N6	7.15	122.89	118.60
1	6	1112	G	C4-C5-N7	-7.15	107.94	110.80
36	1	2839	G	N7-C8-N9	7.15	116.67	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	49	C	OP1-P-OP2	-7.15	108.88	119.60
1	6	423	G	N1-C2-N2	7.15	122.63	116.20
1	6	1660	A	N1-C2-N3	7.15	132.87	129.30
36	5	1052	U	C2-N3-C4	7.15	131.29	127.00
65	n9	54	LEU	CA-CB-CG	-7.15	98.86	115.30
36	5	725	G	N1-C6-O6	-7.15	115.61	119.90
36	5	1411	C	O5'-P-OP1	7.15	119.28	110.70
36	1	2419	A	N1-C6-N6	7.14	122.89	118.60
38	4	56	G	N3-C4-C5	-7.14	125.03	128.60
1	6	879	G	N9-C4-C5	-7.14	102.54	105.40
36	5	2830	G	N3-C4-N9	-7.14	121.71	126.00
36	5	3044	G	C5-C6-N1	-7.14	107.93	111.50
52	m6	101	ARG	NE-CZ-NH2	-7.14	116.73	120.30
1	2	1426	C	C5-C4-N4	-7.14	115.20	120.20
36	1	982	C	N3-C2-O2	-7.14	116.90	121.90
36	1	1431	G	C2-N3-C4	7.14	115.47	111.90
36	5	1902	G	C4-N9-C1'	7.14	135.79	126.50
36	1	680	G	C5-C6-N1	-7.14	107.93	111.50
1	6	1171	A	N1-C6-N6	-7.14	114.31	118.60
1	6	1490	C	O5'-P-OP1	-7.14	99.27	105.70
36	5	3098	G	C6-N1-C2	-7.14	120.81	125.10
36	1	146	U	C2-N1-C1'	7.14	126.27	117.70
36	1	2187	G	C5-C6-N1	-7.14	107.93	111.50
36	1	2407	C	N3-C4-N4	7.14	123.00	118.00
36	1	2952	G	C5-C6-N1	-7.14	107.93	111.50
1	6	371	G	N1-C6-O6	7.14	124.18	119.90
1	6	1007	C	N3-C4-N4	-7.14	113.00	118.00
36	5	957	C	OP1-P-O3'	7.14	120.91	105.20
36	5	2850	G	C8-N9-C4	7.14	109.26	106.40
36	5	3322	A	N1-C2-N3	7.14	132.87	129.30
37	3	89	G	N7-C8-N9	-7.14	109.53	113.10
1	6	246	G	C8-N9-C4	-7.14	103.55	106.40
36	5	1149	G	N3-C2-N2	-7.14	114.90	119.90
36	5	3078	U	N1-C2-N3	7.14	119.18	114.90
36	1	607	A	C4-C5-C6	7.14	120.57	117.00
36	1	3269	U	P-O3'-C3'	7.14	128.26	119.70
36	1	3387	U	N1-C2-O2	-7.14	117.81	122.80
36	5	606	C	C6-N1-C2	-7.14	117.44	120.30
36	5	922	U	N1-C2-O2	-7.14	117.80	122.80
36	5	1838	G	N9-C4-C5	-7.14	102.55	105.40
36	5	1944	U	N3-C4-O4	7.14	124.40	119.40
1	2	1631	A	N9-C4-C5	7.13	108.65	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	609	G	C4-C5-N7	7.13	113.65	110.80
36	1	2664	C	C5-C4-N4	-7.13	115.20	120.20
36	1	2939	G	N1-C6-O6	-7.13	115.62	119.90
1	6	51	A	N1-C2-N3	7.13	132.87	129.30
36	5	2858	U	N3-C2-O2	-7.13	117.21	122.20
36	1	934	G	N7-C8-N9	7.13	116.67	113.10
36	1	1865	A	C2-N3-C4	-7.13	107.03	110.60
1	6	1566	U	C5-C6-N1	-7.13	119.13	122.70
36	5	866	A	C8-N9-C4	7.13	108.65	105.80
1	2	1728	A	C6-N1-C2	-7.13	114.32	118.60
36	1	1299	U	N1-C2-O2	-7.13	117.81	122.80
37	3	7	G	C5-C6-O6	7.13	132.88	128.60
36	5	1902	G	N3-C4-N9	7.13	130.28	126.00
36	5	2768	U	N3-C4-O4	-7.13	114.41	119.40
1	2	334	G	N3-C4-C5	7.13	132.16	128.60
1	2	1486	G	C6-C5-N7	-7.13	126.12	130.40
1	2	1623	C	O5'-P-OP1	-7.13	99.28	105.70
36	1	3245	A	OP1-P-OP2	-7.13	108.91	119.60
1	6	3	U	N3-C4-C5	7.13	118.88	114.60
36	5	1139	G	C8-N9-C1'	7.13	136.27	127.00
1	2	993	A	N1-C6-N6	7.13	122.88	118.60
36	1	591	G	N3-C4-C5	-7.13	125.04	128.60
36	1	2606	G	C4-N9-C1'	7.13	135.76	126.50
1	6	1304	G	C8-N9-C4	7.13	109.25	106.40
36	5	1102	A	N9-C4-C5	7.13	108.65	105.80
36	5	1130	A	C4-C5-C6	-7.13	113.44	117.00
36	5	1176	C	N3-C4-N4	-7.13	113.01	118.00
36	5	2380	U	N1-C2-O2	-7.13	117.81	122.80
36	5	2979	U	C6-N1-C2	7.13	125.28	121.00
1	2	566	C	C5-C6-N1	-7.12	117.44	121.00
36	1	973	A	C5-C6-N6	7.12	129.40	123.70
36	1	1398	U	C5-C4-O4	7.12	130.18	125.90
36	5	41	G	N7-C8-N9	7.12	116.66	113.10
36	5	2334	U	C4-C5-C6	7.12	123.97	119.70
36	5	3093	C	C4-C5-C6	7.12	120.96	117.40
1	2	1029	U	C5-C4-O4	7.12	130.18	125.90
36	1	1614	C	N3-C2-O2	-7.12	116.91	121.90
36	1	2192	C	C6-N1-C2	-7.12	117.45	120.30
36	1	2415	C	O5'-P-OP2	-7.12	99.29	105.70
36	1	2802	A	N1-C2-N3	7.12	132.86	129.30
1	6	1	U	N3-C2-O2	-7.12	117.21	122.20
1	6	57	G	C4-N9-C1'	7.12	135.76	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3177	G	C5-C6-O6	7.12	132.87	128.60
36	1	145	G	N1-C6-O6	7.12	124.17	119.90
1	6	19	A	N1-C6-N6	7.12	122.87	118.60
1	6	1124	A	C5-N7-C8	-7.12	100.34	103.90
1	6	1586	A	N1-C6-N6	-7.12	114.33	118.60
36	5	774	G	N9-C4-C5	-7.12	102.55	105.40
36	5	1160	C	N1-C2-O2	-7.12	114.63	118.90
36	5	1172	G	N1-C6-O6	7.12	124.17	119.90
36	5	2784	G	N1-C6-O6	7.12	124.17	119.90
36	5	3043	C	N3-C4-C5	7.12	124.75	121.90
36	5	3304	U	N3-C4-O4	7.12	124.39	119.40
37	7	37	G	C4-N9-C1'	7.12	135.76	126.50
37	3	6	C	N3-C4-C5	7.12	124.75	121.90
1	6	142	G	C6-C5-N7	7.12	134.67	130.40
36	1	346	C	C6-N1-C2	-7.12	117.45	120.30
36	1	1317	A	O5'-P-OP1	-7.12	99.29	105.70
36	1	2521	U	C5-C6-N1	-7.12	119.14	122.70
38	4	24	G	C8-N9-C1'	-7.12	117.75	127.00
36	5	1782	U	C6-N1-C2	-7.12	116.73	121.00
36	1	942	U	C6-N1-C2	-7.12	116.73	121.00
1	6	337	G	C6-C5-N7	-7.12	126.13	130.40
1	6	1271	G	C4-C5-C6	7.12	123.07	118.80
36	5	1379	G	C4-C5-C6	7.12	123.07	118.80
36	1	93	C	N3-C4-N4	7.12	122.98	118.00
36	1	2830	G	N3-C4-C5	7.12	132.16	128.60
1	6	1003	A	N1-C6-N6	7.12	122.87	118.60
36	5	641	C	N3-C4-C5	7.12	124.75	121.90
36	5	1316	C	N1-C2-N3	7.12	124.18	119.20
36	5	2693	C	N3-C4-C5	7.12	124.75	121.90
37	7	117	A	N1-C2-N3	7.12	132.86	129.30
1	2	552	G	C4-C5-N7	7.11	113.65	110.80
36	1	917	A	C5-C6-N6	7.11	129.39	123.70
36	1	1179	A	C8-N9-C4	7.11	108.64	105.80
36	1	1581	C	N3-C4-C5	-7.11	119.06	121.90
36	5	1665	C	OP2-P-O3'	7.11	120.85	105.20
36	5	1680	G	C8-N9-C1'	-7.11	117.75	127.00
1	2	1272	U	N1-C2-N3	7.11	119.17	114.90
36	1	2950	G	C8-N9-C4	-7.11	103.56	106.40
36	5	1673	G	N1-C6-O6	7.11	124.17	119.90
36	5	3026	G	C2-N3-C4	-7.11	108.34	111.90
36	1	95	A	C5-C6-N6	7.11	129.39	123.70
36	1	721	G	C5-N7-C8	-7.11	100.74	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	784	A	C2-N3-C4	-7.11	107.05	110.60
36	1	2873	U	N3-C2-O2	-7.11	117.22	122.20
1	6	1628	U	N3-C2-O2	-7.11	117.22	122.20
36	5	816	A	C4-C5-N7	-7.11	107.14	110.70
36	5	1148	G	C4-N9-C1'	7.11	135.74	126.50
36	5	2280	A	N9-C4-C5	-7.11	102.96	105.80
36	5	2770	G	N7-C8-N9	7.11	116.66	113.10
36	5	3366	G	N3-C4-C5	-7.11	125.05	128.60
36	1	3050	U	N3-C4-C5	-7.11	110.33	114.60
1	6	415	C	C5-C4-N4	7.11	125.18	120.20
1	6	1418	G	C6-C5-N7	-7.11	126.14	130.40
36	5	1405	U	C6-N1-C1'	7.11	131.15	121.20
36	5	1514	G	C4-C5-N7	7.11	113.64	110.80
36	5	3120	C	N3-C2-O2	-7.11	116.92	121.90
36	1	2131	A	N1-C2-N3	7.11	132.85	129.30
36	1	2772	C	C3'-C2'-C1'	-7.11	95.81	101.50
36	1	2940	A	C5-C6-N1	7.11	121.25	117.70
38	4	2	A	C8-N9-C4	-7.11	102.96	105.80
38	4	9	A	C8-N9-C4	7.11	108.64	105.80
36	5	1194	G	N7-C8-N9	7.11	116.65	113.10
38	8	99	C	C6-N1-C1'	-7.11	112.27	120.80
1	2	620	A	N1-C6-N6	-7.11	114.34	118.60
1	2	1127	G	N9-C4-C5	7.11	108.24	105.40
36	1	345	G	C4-N9-C1'	7.11	135.74	126.50
36	1	2846	U	N3-C2-O2	-7.11	117.23	122.20
1	6	982	U	N3-C4-O4	-7.11	114.43	119.40
1	6	1480	G	C6-C5-N7	-7.11	126.14	130.40
36	5	687	U	N3-C4-O4	-7.11	114.43	119.40
36	5	752	C	N3-C4-C5	-7.11	119.06	121.90
36	5	1194	G	C4-C5-N7	7.11	113.64	110.80
1	2	419	G	C4-C5-N7	7.10	113.64	110.80
36	1	1165	A	N9-C4-C5	7.10	108.64	105.80
36	1	2638	C	C6-N1-C2	-7.10	117.46	120.30
36	1	2875	U	C5-C6-N1	7.10	126.25	122.70
36	1	3029	A	C2-N3-C4	-7.10	107.05	110.60
1	6	963	A	N1-C6-N6	7.10	122.86	118.60
36	5	2706	G	N1-C6-O6	-7.10	115.64	119.90
36	5	2863	G	C8-N9-C4	-7.10	103.56	106.40
1	2	350	U	C5-C4-O4	7.10	130.16	125.90
36	1	108	A	N9-C4-C5	-7.10	102.96	105.80
36	1	1773	C	C6-N1-C2	7.10	123.14	120.30
36	1	3215	A	C8-N9-C4	7.10	108.64	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	948	C	C2-N3-C4	-7.10	116.35	119.90
36	5	1177	G	C6-N1-C2	-7.10	120.84	125.10
36	5	2592	G	N1-C6-O6	7.10	124.16	119.90
36	1	2922	G	OP1-P-O3'	7.10	120.82	105.20
36	1	2953	U	OP1-P-OP2	-7.10	108.95	119.60
1	6	410	A	C6-N1-C2	-7.10	114.34	118.60
36	5	3232	G	N3-C4-C5	7.10	132.15	128.60
36	1	2661	G	C5-N7-C8	-7.10	100.75	104.30
1	6	811	A	C4-C5-C6	7.10	120.55	117.00
36	5	521	A	N7-C8-N9	7.10	117.35	113.80
36	5	973	A	N7-C8-N9	7.10	117.35	113.80
36	5	1481	A	C6-C5-N7	-7.10	127.33	132.30
36	5	2180	G	C8-N9-C4	7.10	109.24	106.40
36	1	861	C	N3-C4-C5	-7.10	119.06	121.90
52	M6	27	LEU	CB-CG-CD1	-7.10	98.94	111.00
1	6	1477	G	C2-N3-C4	7.10	115.45	111.90
36	1	321	C	C6-N1-C2	-7.09	117.46	120.30
36	1	1007	U	N1-C2-N3	-7.09	110.64	114.90
36	1	1843	C	C6-N1-C2	-7.09	117.46	120.30
1	6	1655	A	C2-N3-C4	-7.09	107.05	110.60
37	7	13	A	O5'-P-OP1	-7.09	99.31	105.70
36	1	183	G	N3-C4-C5	-7.09	125.05	128.60
36	1	2704	A	C5-C6-N6	7.09	129.37	123.70
36	5	1100	U	C5-C6-N1	-7.09	119.15	122.70
1	2	909	U	C5-C6-N1	-7.09	119.15	122.70
36	1	589	A	N1-C6-N6	-7.09	114.34	118.60
36	1	1728	G	C4-N9-C1'	7.09	135.72	126.50
36	1	2641	U	N3-C2-O2	-7.09	117.24	122.20
1	6	811	A	C6-C5-N7	-7.09	127.33	132.30
36	5	396	A	N7-C8-N9	-7.09	110.25	113.80
36	5	944	C	N1-C2-O2	7.09	123.16	118.90
38	8	47	C	N3-C2-O2	-7.09	116.94	121.90
1	2	1025	A	C4-C5-C6	7.09	120.55	117.00
1	2	1200	G	C4-N9-C1'	7.09	135.72	126.50
36	1	2618	G	N1-C2-N3	7.09	128.15	123.90
36	1	2624	G	C6-C5-N7	-7.09	126.15	130.40
1	6	1106	U	C5-C6-N1	7.09	126.25	122.70
36	5	728	G	N1-C6-O6	7.09	124.15	119.90
36	5	1367	G	N3-C4-N9	7.09	130.25	126.00
36	1	1511	U	C5-C6-N1	-7.09	119.16	122.70
36	1	3226	A	N1-C6-N6	-7.09	114.35	118.60
36	5	1492	G	C2-N3-C4	-7.09	108.36	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1898	G	C5-C6-N1	7.09	115.04	111.50
1	2	1241	G	C4-N9-C1'	7.09	135.71	126.50
36	1	872	U	N3-C4-O4	7.09	124.36	119.40
36	1	1094	U	O4'-C1'-N1	7.09	113.87	108.20
36	1	2919	A	N3-C4-C5	7.09	131.76	126.80
36	1	2919	A	O5'-P-OP2	-7.09	99.32	105.70
1	6	1176	G	N9-C4-C5	-7.09	102.56	105.40
36	5	1131	G	O5'-P-OP2	-7.09	99.32	105.70
36	5	1400	G	C8-N9-C4	-7.09	103.57	106.40
36	5	2268	U	N3-C4-O4	-7.09	114.44	119.40
36	5	2864	A	O5'-P-OP1	-7.09	99.32	105.70
36	5	2886	U	O5'-P-OP2	-7.09	99.32	105.70
36	5	3125	U	C2-N1-C1'	-7.09	109.20	117.70
36	5	913	A	N1-C2-N3	7.08	132.84	129.30
36	5	2294	U	C5-C4-O4	7.08	130.15	125.90
36	1	499	G	N3-C4-N9	-7.08	121.75	126.00
36	1	1155	C	C2-N3-C4	-7.08	116.36	119.90
1	6	396	G	N9-C4-C5	7.08	108.23	105.40
1	6	902	G	N1-C6-O6	7.08	124.15	119.90
1	6	1041	G	C2-N3-C4	-7.08	108.36	111.90
15	c3	42	ARG	NE-CZ-NH1	7.08	123.84	120.30
36	5	1299	U	O5'-P-OP2	-7.08	99.33	105.70
36	5	2172	A	C6-C5-N7	-7.08	127.34	132.30
36	5	2337	C	N3-C2-O2	-7.08	116.94	121.90
36	5	2385	G	C2-N3-C4	-7.08	108.36	111.90
36	5	3227	A	N9-C4-C5	-7.08	102.97	105.80
37	7	116	C	C4-C5-C6	-7.08	113.86	117.40
36	1	2641	U	N3-C4-C5	7.08	118.85	114.60
1	6	1150	G	C5-C6-O6	-7.08	124.35	128.60
1	6	1193	A	C8-N9-C4	-7.08	102.97	105.80
36	5	927	C	C6-N1-C2	-7.08	117.47	120.30
36	5	1471	U	C4-C5-C6	7.08	123.95	119.70
36	5	1865	A	N1-C6-N6	7.08	122.85	118.60
36	5	2791	G	N3-C2-N2	-7.08	114.94	119.90
38	8	94	C	C6-N1-C2	7.08	123.13	120.30
36	1	2326	A	N3-C4-N9	-7.08	121.74	127.40
36	5	856	G	C8-N9-C1'	-7.08	117.80	127.00
36	5	1010	G	C5-C6-O6	-7.08	124.35	128.60
36	1	22	G	N1-C2-N3	7.08	128.15	123.90
36	1	396	A	N1-C2-N3	7.08	132.84	129.30
36	1	972	A	C2-N3-C4	-7.08	107.06	110.60
36	1	1511	U	N3-C4-O4	-7.08	114.44	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3142	A	N7-C8-N9	-7.08	110.26	113.80
38	4	24	G	N1-C2-N3	7.08	128.15	123.90
1	6	156	A	C8-N9-C4	7.08	108.63	105.80
1	6	923	A	N1-C6-N6	-7.08	114.35	118.60
1	6	1295	G	C5-C6-O6	-7.08	124.35	128.60
1	6	1730	A	C6-N1-C2	-7.08	114.35	118.60
36	5	1924	U	O5'-P-OP2	-7.08	99.33	105.70
36	5	3006	A	C8-N9-C4	-7.08	102.97	105.80
36	5	3208	G	C8-N9-C1'	-7.08	117.80	127.00
1	2	615	A	C2-N3-C4	7.08	114.14	110.60
1	2	1484	G	N1-C6-O6	-7.08	115.65	119.90
36	1	1466	G	C4-C5-N7	7.08	113.63	110.80
1	6	1512	G	C5-C6-O6	-7.08	124.35	128.60
36	5	1198	C	C2-N1-C1'	7.08	126.58	118.80
36	5	1365	G	N3-C4-N9	-7.08	121.75	126.00
36	1	628	A	C4-C5-C6	7.08	120.54	117.00
36	1	821	U	N3-C2-O2	-7.08	117.25	122.20
36	1	2606	G	N3-C4-C5	-7.08	125.06	128.60
36	1	3330	A	C4-C5-N7	-7.08	107.16	110.70
37	3	91	G	N7-C8-N9	7.08	116.64	113.10
1	6	356	G	C2-N3-C4	7.08	115.44	111.90
36	5	504	A	C2-N3-C4	-7.08	107.06	110.60
36	5	1115	G	N3-C2-N2	7.08	124.85	119.90
36	5	2293	C	C5-C4-N4	-7.08	115.25	120.20
37	7	101	G	C5-C6-O6	-7.08	124.36	128.60
36	1	705	A	OP1-P-O3'	7.07	120.76	105.20
36	1	1514	G	C8-N9-C1'	-7.07	117.81	127.00
37	3	103	A	N1-C6-N6	-7.07	114.36	118.60
1	6	1420	C	N1-C2-O2	7.07	123.14	118.90
1	6	1583	A	C5-C6-N6	7.07	129.36	123.70
1	6	1781	A	C4-C5-C6	7.07	120.54	117.00
36	5	326	U	N3-C4-C5	-7.07	110.36	114.60
36	5	1113	G	OP2-P-O3'	7.07	120.76	105.20
36	5	1147	G	N1-C2-N2	-7.07	109.83	116.20
36	1	1906	G	N1-C6-O6	7.07	124.14	119.90
37	3	88	G	O5'-P-OP1	-7.07	99.33	105.70
1	2	597	G	N1-C6-O6	7.07	124.14	119.90
36	1	2862	U	OP1-P-OP2	-7.07	109.00	119.60
36	1	2993	G	N3-C4-N9	7.07	130.24	126.00
38	4	15	G	C8-N9-C4	-7.07	103.57	106.40
43	L6	154	LEU	CB-CG-CD1	-7.07	98.98	111.00
1	6	1145	U	O5'-P-OP2	-7.07	99.34	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	610	G	N9-C4-C5	7.07	108.23	105.40
36	5	2387	A	C6-N1-C2	-7.07	114.36	118.60
36	5	3024	A	O5'-P-OP1	-7.07	99.34	105.70
36	5	3202	G	N9-C4-C5	7.07	108.23	105.40
36	1	1308	A	C6-N1-C2	7.07	122.84	118.60
36	1	2956	A	C5-N7-C8	-7.07	100.36	103.90
1	6	325	G	C2-N3-C4	-7.07	108.37	111.90
36	5	891	G	N7-C8-N9	7.07	116.63	113.10
36	5	1101	G	C6-N1-C2	-7.07	120.86	125.10
36	5	2301	U	N3-C4-C5	-7.07	110.36	114.60
36	1	680	G	C8-N9-C4	7.07	109.23	106.40
36	1	1380	G	O5'-P-OP1	7.07	119.18	110.70
36	1	2772	C	N3-C4-N4	7.07	122.95	118.00
1	6	1645	G	N9-C4-C5	-7.07	102.57	105.40
36	5	574	U	OP2-P-O3'	7.07	120.75	105.20
36	5	1902	G	N9-C4-C5	-7.07	102.57	105.40
36	5	2661	G	N3-C4-C5	-7.07	125.07	128.60
36	5	2973	G	OP1-P-OP2	-7.07	109.00	119.60
36	1	218	G	C8-N9-C1'	7.07	136.18	127.00
36	1	970	A	N9-C1'-C2'	-7.07	104.23	112.00
36	1	1362	G	C8-N9-C4	7.07	109.23	106.40
36	1	1633	C	C5-C6-N1	7.07	124.53	121.00
36	1	3307	A	N1-C6-N6	7.07	122.84	118.60
1	6	407	A	C5-C6-N6	-7.07	118.05	123.70
1	6	480	G	C8-N9-C1'	-7.07	117.82	127.00
1	6	1272	U	N3-C4-C5	-7.07	110.36	114.60
36	5	60	A	N1-C6-N6	7.07	122.84	118.60
36	5	422	A	O4'-C1'-N9	-7.07	102.55	108.20
36	5	1838	G	C6-C5-N7	-7.07	126.16	130.40
36	1	93	C	N3-C2-O2	7.06	126.84	121.90
36	1	1884	A	N3-C4-N9	-7.06	121.75	127.40
36	1	2818	U	N3-C2-O2	7.06	127.14	122.20
36	5	756	U	N1-C2-N3	7.06	119.14	114.90
36	5	1151	U	N1-C2-O2	7.06	127.75	122.80
36	1	2408	U	N1-C2-N3	7.06	119.14	114.90
36	1	2427	U	N3-C4-C5	7.06	118.84	114.60
36	1	2877	G	C4-N9-C1'	-7.06	117.32	126.50
36	1	3045	G	C2-N3-C4	7.06	115.43	111.90
37	3	99	G	N3-C4-N9	-7.06	121.76	126.00
1	6	325	G	C8-N9-C4	7.06	109.22	106.40
36	5	2750	U	N3-C2-O2	-7.06	117.26	122.20
36	5	2796	G	N3-C4-N9	7.06	130.24	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	70	A	C8-N9-C4	-7.06	102.98	105.80
36	5	2777	G	C4-C5-N7	-7.06	107.98	110.80
36	1	895	A	N7-C8-N9	7.06	117.33	113.80
36	1	2745	G	N3-C4-C5	-7.06	125.07	128.60
1	6	1447	C	C2-N1-C1'	7.06	126.56	118.80
36	5	383	G	N7-C8-N9	-7.06	109.57	113.10
36	5	811	U	C2-N3-C4	-7.06	122.77	127.00
36	5	1537	A	C4-C5-C6	7.06	120.53	117.00
36	5	2645	G	N3-C2-N2	-7.06	114.96	119.90
36	1	154	U	O5'-P-OP1	-7.06	99.35	105.70
36	1	593	C	N3-C2-O2	-7.06	116.96	121.90
36	1	2715	A	C8-N9-C4	-7.06	102.98	105.80
37	3	82	G	C8-N9-C4	-7.06	103.58	106.40
36	5	1205	A	N7-C8-N9	-7.06	110.27	113.80
36	5	1774	C	C6-N1-C2	7.06	123.12	120.30
36	5	2623	G	C8-N9-C1'	-7.06	117.83	127.00
36	5	3366	G	C6-C5-N7	-7.06	126.17	130.40
36	1	2213	A	O5'-P-OP1	-7.06	99.35	105.70
36	1	3179	U	C5-C6-N1	-7.06	119.17	122.70
36	5	2183	A	C2-N3-C4	-7.06	107.07	110.60
36	1	358	G	N1-C6-O6	7.05	124.13	119.90
36	1	3049	A	C5-N7-C8	7.05	107.43	103.90
36	5	750	G	O5'-P-OP2	-7.05	99.35	105.70
36	5	1443	G	C5-N7-C8	-7.05	100.77	104.30
36	5	1733	G	C6-C5-N7	-7.05	126.17	130.40
36	5	2194	G	N3-C4-C5	-7.05	125.07	128.60
36	5	2400	G	C4-C5-N7	7.05	113.62	110.80
36	5	2659	G	C8-N9-C4	7.05	109.22	106.40
36	5	2856	G	C8-N9-C4	-7.05	103.58	106.40
36	5	1142	G	C4-C5-N7	7.05	113.62	110.80
36	1	27	C	N3-C2-O2	-7.05	116.96	121.90
36	1	3383	G	N1-C2-N2	7.05	122.55	116.20
37	3	58	C	N3-C4-C5	7.05	124.72	121.90
38	4	17	A	N1-C6-N6	7.05	122.83	118.60
38	4	31	G	N7-C8-N9	-7.05	109.57	113.10
1	6	1781	A	N7-C8-N9	7.05	117.33	113.80
36	5	760	G	N9-C4-C5	-7.05	102.58	105.40
36	5	2764	C	OP1-P-OP2	-7.05	109.02	119.60
37	7	105	C	C5-C6-N1	7.05	124.53	121.00
1	2	1127	G	C2-N3-C4	-7.05	108.38	111.90
36	1	45	A	N3-C4-N9	-7.05	121.76	127.40
36	1	3320	A	N1-C2-N3	7.05	132.82	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	672	A	C6-N1-C2	-7.05	114.37	118.60
36	5	709	A	C5-C6-N6	-7.05	118.06	123.70
36	5	927	C	C5-C6-N1	7.05	124.53	121.00
36	5	1597	C	C6-N1-C2	-7.05	117.48	120.30
36	5	2827	U	N1-C2-N3	-7.05	110.67	114.90
36	1	879	U	N3-C2-O2	7.05	127.13	122.20
36	1	2131	A	C6-N1-C2	-7.05	114.37	118.60
1	6	34	G	N3-C4-C5	7.05	132.12	128.60
1	6	1673	G	C4-C5-N7	7.05	113.62	110.80
1	2	1453	G	O5'-P-OP1	-7.05	99.36	105.70
36	1	41	G	N9-C4-C5	7.05	108.22	105.40
36	1	194	U	O5'-P-OP1	-7.05	99.36	105.70
36	1	655	C	C6-N1-C2	-7.05	117.48	120.30
36	1	1284	C	C6-N1-C2	-7.05	117.48	120.30
36	1	1363	A	C5-C6-N6	-7.05	118.06	123.70
36	1	2870	C	C2-N1-C1'	-7.05	111.05	118.80
1	6	1537	C	N1-C2-O2	-7.05	114.67	118.90
36	5	1327	C	N3-C4-C5	7.05	124.72	121.90
36	5	2215	A	C8-N9-C4	7.05	108.62	105.80
36	1	1446	A	C6-N1-C2	-7.04	114.37	118.60
1	6	120	U	C5-C4-O4	7.04	130.13	125.90
37	7	59	U	O5'-P-OP2	-7.04	99.36	105.70
36	1	662	U	OP2-P-O3'	7.04	120.69	105.20
36	1	2712	U	C6-N1-C2	7.04	125.23	121.00
1	6	93	A	N1-C6-N6	-7.04	114.37	118.60
1	6	1201	G	C4-N9-C1'	-7.04	117.34	126.50
36	5	1300	G	C8-N9-C1'	-7.04	117.84	127.00
36	5	1172	G	C8-N9-C4	-7.04	103.58	106.40
36	5	2625	C	N1-C2-O2	-7.04	114.67	118.90
1	2	378	A	C6-C5-N7	-7.04	127.37	132.30
36	5	1323	G	N3-C4-C5	-7.04	125.08	128.60
1	2	351	C	C5-C6-N1	-7.04	117.48	121.00
1	2	1454	G	C8-N9-C4	7.04	109.22	106.40
36	1	671	U	OP2-P-O3'	7.04	120.68	105.20
36	5	155	G	N3-C2-N2	7.04	124.83	119.90
36	5	521	A	C5-C6-N6	7.04	129.33	123.70
36	5	2357	A	N1-C2-N3	7.04	132.82	129.30
36	5	2370	G	C2-N3-C4	-7.04	108.38	111.90
37	7	107	C	O5'-P-OP1	7.04	119.14	110.70
1	6	1158	C	N3-C4-N4	7.04	122.93	118.00
36	5	1483	G	C6-C5-N7	-7.04	126.18	130.40
36	1	23	A	C4-C5-C6	7.04	120.52	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	399	A	N1-C2-N3	-7.04	125.78	129.30
36	1	2339	C	C2-N1-C1'	7.04	126.54	118.80
36	1	2393	G	C4-C5-N7	7.04	113.61	110.80
36	5	808	A	N1-C6-N6	-7.04	114.38	118.60
36	5	1152	G	C5-C6-N1	-7.04	107.98	111.50
36	1	821	U	C6-N1-C2	-7.03	116.78	121.00
1	6	621	A	C5-C6-N6	7.03	129.33	123.70
1	6	1297	G	O5'-P-OP1	-7.03	99.37	105.70
1	6	1332	C	C4-C5-C6	7.03	120.92	117.40
36	5	653	A	N1-C6-N6	7.03	122.82	118.60
38	8	45	C	O5'-P-OP1	-7.03	99.37	105.70
36	5	1506	A	O5'-P-OP1	7.03	119.14	110.70
36	5	2140	U	C4-C5-C6	7.03	123.92	119.70
36	5	2362	C	N1-C2-O2	7.03	123.12	118.90
36	1	256	G	N1-C6-O6	-7.03	115.68	119.90
36	1	385	A	C8-N9-C4	-7.03	102.99	105.80
36	1	688	G	C4-N9-C1'	7.03	135.64	126.50
36	1	709	A	N1-C6-N6	7.03	122.82	118.60
38	4	54	A	N9-C4-C5	7.03	108.61	105.80
36	5	228	U	N3-C2-O2	-7.03	117.28	122.20
36	5	1092	C	C6-N1-C2	-7.03	117.49	120.30
36	5	2524	A	C4-C5-N7	7.03	114.22	110.70
36	5	2947	G	OP1-P-O3'	7.03	120.67	105.20
1	2	21	U	C2-N1-C1'	7.03	126.14	117.70
36	1	50	U	N1-C2-N3	7.03	119.12	114.90
36	1	2760	C	C2-N1-C1'	-7.03	111.07	118.80
1	6	771	A	C2-N3-C4	7.03	114.11	110.60
36	5	2125	A	N1-C2-N3	7.03	132.81	129.30
36	5	2351	U	O5'-P-OP2	-7.03	99.37	105.70
36	5	2713	U	C5-C6-N1	7.03	126.21	122.70
36	1	2601	A	O5'-P-OP2	-7.03	99.38	105.70
36	1	3327	G	C4-C5-N7	-7.03	107.99	110.80
38	4	99	C	N3-C4-C5	7.03	124.71	121.90
4	s2	61	LEU	CA-CB-CG	-7.03	99.14	115.30
36	5	1213	G	C4-C5-N7	-7.03	107.99	110.80
36	5	1848	G	N7-C8-N9	-7.03	109.59	113.10
36	5	2828	G	OP1-P-O3'	-7.03	89.74	105.20
36	5	2837	A	C5-C6-N1	7.03	121.21	117.70
36	1	2400	G	N7-C8-N9	7.03	116.61	113.10
36	1	3276	G	N7-C8-N9	7.03	116.61	113.10
1	6	29	U	C4-C5-C6	7.03	123.92	119.70
36	5	1465	A	N1-C6-N6	7.03	122.81	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
59	n3	48	ARG	NE-CZ-NH1	7.03	123.81	120.30
1	2	1218	G	O4'-C1'-N9	7.02	113.82	108.20
36	1	1076	C	C6-N1-C2	7.02	123.11	120.30
36	1	1164	G	N3-C4-N9	-7.02	121.79	126.00
36	1	1422	G	C8-N9-C1'	-7.02	117.87	127.00
36	1	1592	G	C4-C5-C6	7.02	123.02	118.80
36	1	2912	G	C5-C6-O6	7.02	132.81	128.60
36	5	787	G	N7-C8-N9	-7.02	109.59	113.10
36	5	2724	U	O5'-P-OP1	7.02	119.13	110.70
1	2	318	U	C5-C6-N1	-7.02	119.19	122.70
36	1	325	A	C5-C6-N1	7.02	121.21	117.70
36	1	625	G	C5-C6-N1	-7.02	107.99	111.50
36	1	2145	A	C5-C6-N6	-7.02	118.08	123.70
36	1	3344	A	C6-C5-N7	-7.02	127.38	132.30
48	M1	112	LEU	CA-CB-CG	7.02	131.45	115.30
36	5	424	G	C6-N1-C2	-7.02	120.89	125.10
36	5	784	A	N7-C8-N9	7.02	117.31	113.80
36	5	979	U	C6-N1-C2	-7.02	116.79	121.00
36	5	31	C	N3-C2-O2	-7.02	116.98	121.90
36	5	858	A	N3-C4-C5	-7.02	121.89	126.80
37	7	50	U	N1-C2-O2	7.02	127.72	122.80
1	2	1025	A	C8-N9-C1'	-7.02	115.07	127.70
1	2	1165	G	N3-C4-N9	7.02	130.21	126.00
1	6	158	U	C2-N1-C1'	7.02	126.12	117.70
1	6	1047	G	N3-C4-C5	-7.02	125.09	128.60
36	5	676	G	C8-N9-C4	-7.02	103.59	106.40
36	5	3107	U	OP2-P-O3'	7.02	120.64	105.20
36	1	1374	G	N3-C4-N9	7.02	130.21	126.00
36	1	2381	G	C5-C6-O6	-7.02	124.39	128.60
36	1	2606	G	N1-C2-N3	7.02	128.11	123.90
1	6	335	U	N3-C2-O2	-7.02	117.29	122.20
1	6	1030	A	C2-N3-C4	-7.02	107.09	110.60
36	5	1003	A	C4-C5-N7	7.02	114.21	110.70
36	5	3174	A	C8-N9-C4	-7.02	102.99	105.80
36	5	3261	C	C6-N1-C2	7.02	123.11	120.30
36	1	293	C	C6-N1-C2	7.02	123.11	120.30
36	1	826	G	C4-C5-N7	7.02	113.61	110.80
36	5	210	U	C5-C6-N1	-7.02	119.19	122.70
36	5	1108	U	N3-C4-C5	-7.02	110.39	114.60
36	5	1896	A	C5-C6-N6	7.02	129.31	123.70
1	2	574	G	N1-C6-O6	-7.01	115.69	119.90
1	2	1600	A	C6-C5-N7	-7.01	127.39	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	815	G	C8-N9-C4	-7.01	103.59	106.40
36	1	1443	G	O5'-P-OP2	7.01	119.12	110.70
36	1	1488	G	C5-C6-O6	-7.01	124.39	128.60
36	1	1587	A	N1-C6-N6	-7.01	114.39	118.60
36	1	2363	A	C4-C5-N7	-7.01	107.19	110.70
1	6	1050	G	C2-N3-C4	-7.01	108.39	111.90
1	6	1600	A	O4'-C1'-N9	7.01	113.81	108.20
36	5	1762	C	C6-N1-C2	-7.01	117.49	120.30
36	5	2733	A	N1-C6-N6	7.01	122.81	118.60
36	1	1924	U	C5-C6-N1	-7.01	119.19	122.70
36	5	436	A	N1-C2-N3	7.01	132.81	129.30
36	5	960	U	OP2-P-O3'	7.01	120.63	105.20
1	2	373	G	C4-N9-C1'	7.01	135.62	126.50
1	2	513	U	C6-N1-C2	-7.01	116.79	121.00
1	2	1774	G	N3-C4-C5	-7.01	125.09	128.60
36	1	212	G	C4-N9-C1'	7.01	135.62	126.50
36	1	917	A	C2-N3-C4	7.01	114.11	110.60
36	1	1905	G	C4-N9-C1'	-7.01	117.39	126.50
36	1	2277	C	C4-C5-C6	7.01	120.91	117.40
36	1	2844	C	C6-N1-C2	7.01	123.11	120.30
36	1	2893	C	O5'-P-OP2	-7.01	99.39	105.70
36	1	2940	A	N9-C4-C5	7.01	108.61	105.80
36	1	3373	U	C5-C6-N1	-7.01	119.19	122.70
1	6	464	A	N1-C6-N6	7.01	122.81	118.60
36	5	586	C	N3-C4-C5	-7.01	119.09	121.90
36	5	1127	G	N3-C4-N9	7.01	130.21	126.00
36	5	1604	G	C5-C6-N1	7.01	115.00	111.50
36	5	2549	G	C4-N9-C1'	7.01	135.62	126.50
36	5	2963	C	C4-C5-C6	-7.01	113.89	117.40
36	5	3119	U	O5'-P-OP2	-7.01	99.39	105.70
59	n3	120	LYS	CD-CE-NZ	7.01	127.83	111.70
1	2	104	A	C2-N3-C4	7.01	114.11	110.60
36	1	218	G	N9-C4-C5	7.01	108.20	105.40
36	1	1106	G	O5'-P-OP1	7.01	119.11	110.70
36	1	1433	A	N3-C4-C5	-7.01	121.89	126.80
36	1	2192	C	C4-C5-C6	7.01	120.90	117.40
36	1	2392	C	C6-N1-C2	7.01	123.10	120.30
1	6	810	G	O5'-P-OP2	-7.01	99.39	105.70
36	5	15	C	N3-C4-C5	7.01	124.70	121.90
36	5	1444	G	N3-C4-N9	7.01	130.21	126.00
37	7	26	C	N3-C4-C5	-7.01	119.10	121.90
38	8	4	C	O5'-P-OP2	-7.01	99.39	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1537	C	C5-C6-N1	7.01	124.50	121.00
52	M6	78	ARG	NE-CZ-NH1	7.01	123.80	120.30
1	6	13	C	N3-C2-O2	-7.01	117.00	121.90
1	6	619	A	N1-C6-N6	-7.01	114.39	118.60
1	2	1526	A	C8-N9-C4	7.01	108.60	105.80
1	6	864	U	N3-C4-C5	-7.01	110.40	114.60
36	5	858	A	C6-N1-C2	-7.01	114.40	118.60
36	5	3122	A	C4-C5-N7	7.01	114.20	110.70
1	2	1782	A	C5-C6-N1	-7.00	114.20	117.70
36	1	2323	G	C6-C5-N7	-7.00	126.20	130.40
1	6	884	A	N9-C4-C5	-7.00	103.00	105.80
36	5	1116	G	OP2-P-O3'	7.00	120.61	105.20
1	2	18	C	C5-C6-N1	7.00	124.50	121.00
1	2	1486	G	N3-C4-N9	7.00	130.20	126.00
36	1	2363	A	N3-C4-N9	-7.00	121.80	127.40
1	6	264	G	C8-N9-C4	7.00	109.20	106.40
36	5	613	G	N3-C4-C5	7.00	132.10	128.60
36	5	2244	A	C8-N9-C4	7.00	108.60	105.80
36	5	2280	A	C5-N7-C8	-7.00	100.40	103.90
36	5	2371	G	C5-C6-O6	-7.00	124.40	128.60
1	2	378	A	N9-C4-C5	-7.00	103.00	105.80
36	1	644	G	C2-N3-C4	-7.00	108.40	111.90
1	6	1034	C	C6-N1-C2	-7.00	117.50	120.30
36	5	528	U	N3-C4-C5	-7.00	110.40	114.60
36	5	1142	G	C5-N7-C8	-7.00	100.80	104.30
36	5	1407	A	C5-N7-C8	7.00	107.40	103.90
36	5	2412	G	C6-C5-N7	-7.00	126.20	130.40
36	5	2662	G	C5-N7-C8	7.00	107.80	104.30
36	5	2666	C	C6-N1-C2	7.00	123.10	120.30
36	5	3244	A	O4'-C1'-N9	-7.00	102.60	108.20
36	1	1172	G	N3-C4-C5	-7.00	125.10	128.60
36	1	2241	U	N1-C2-O2	-7.00	117.90	122.80
1	6	1362	U	C6-N1-C2	-7.00	116.80	121.00
36	1	105	C	C6-N1-C2	7.00	123.10	120.30
36	1	108	A	C8-N9-C4	7.00	108.60	105.80
36	1	589	A	C4-C5-N7	-7.00	107.20	110.70
36	1	1833	G	C5-C6-N1	-7.00	108.00	111.50
36	1	2779	A	N1-C2-N3	7.00	132.80	129.30
36	1	2804	A	C5-C6-N1	7.00	121.20	117.70
36	1	3376	A	N1-C6-N6	-7.00	114.40	118.60
37	3	89	G	C8-N9-C4	7.00	109.20	106.40
1	6	686	C	C6-N1-C2	-7.00	117.50	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	789	A	C6-N1-C2	-7.00	114.40	118.60
36	5	2969	A	C2-N3-C4	-7.00	107.10	110.60
36	5	3124	G	N3-C4-N9	-7.00	121.80	126.00
36	5	3362	A	O4'-C1'-N9	7.00	113.80	108.20
37	7	44	C	C2-N1-C1'	-7.00	111.10	118.80
36	1	537	A	N3-C4-C5	7.00	131.70	126.80
36	1	942	U	N3-C2-O2	-7.00	117.30	122.20
36	1	2885	C	N3-C4-N4	7.00	122.90	118.00
36	5	639	G	C8-N9-C1'	-7.00	117.91	127.00
36	5	940	G	C4-N9-C1'	-7.00	117.40	126.50
36	5	1192	C	C2-N3-C4	7.00	123.40	119.90
36	5	2661	G	C4-C5-C6	7.00	123.00	118.80
36	5	3335	A	N1-C2-N3	7.00	132.80	129.30
36	1	104	G	C5-C6-O6	-7.00	124.40	128.60
36	1	1306	G	C4-C5-N7	7.00	113.60	110.80
36	1	2274	U	N3-C4-O4	-7.00	114.50	119.40
36	5	422	A	N9-C4-C5	7.00	108.60	105.80
36	5	1303	A	C4-C5-C6	-7.00	113.50	117.00
1	2	162	A	C2-N3-C4	6.99	114.10	110.60
1	6	533	U	O5'-P-OP1	-6.99	99.41	105.70
1	6	600	U	N3-C4-O4	6.99	124.30	119.40
1	6	1653	C	N1-C2-O2	6.99	123.10	118.90
36	5	278	U	N1-C2-N3	6.99	119.10	114.90
36	5	1682	U	O5'-P-OP1	-6.99	99.41	105.70
36	5	2902	A	C2-N3-C4	-6.99	107.10	110.60
36	5	3207	U	C2-N1-C1'	-6.99	109.31	117.70
1	6	421	A	N9-C4-C5	-6.99	103.00	105.80
36	5	1499	C	N1-C2-O2	-6.99	114.70	118.90
36	5	2552	C	C6-N1-C2	6.99	123.10	120.30
36	5	2689	A	N3-C4-N9	-6.99	121.81	127.40
36	1	947	G	C5-C6-O6	6.99	132.79	128.60
36	1	2243	A	C4-C5-C6	6.99	120.50	117.00
36	1	2377	G	OP1-P-OP2	-6.99	109.11	119.60
36	1	2918	G	C6-N1-C2	-6.99	120.91	125.10
37	3	115	G	N9-C4-C5	-6.99	102.60	105.40
1	6	1132	A	N7-C8-N9	-6.99	110.31	113.80
36	5	2902	A	N9-C4-C5	6.99	108.60	105.80
36	5	3079	U	N3-C2-O2	-6.99	117.31	122.20
36	5	3315	G	N7-C8-N9	6.99	116.59	113.10
1	2	411	C	C6-N1-C2	6.99	123.10	120.30
1	2	581	U	C2-N1-C1'	6.99	126.08	117.70
36	1	864	G	N3-C2-N2	6.99	124.79	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
68	O2	115	LEU	CA-CB-CG	-6.99	99.23	115.30
1	6	316	A	N1-C6-N6	6.99	122.79	118.60
1	6	411	C	N3-C4-C5	-6.99	119.11	121.90
36	5	400	G	N3-C4-N9	-6.99	121.81	126.00
36	5	728	G	N9-C4-C5	-6.99	102.60	105.40
1	2	1737	G	C2-N3-C4	-6.99	108.41	111.90
36	1	2657	A	N1-C6-N6	-6.99	114.41	118.60
36	5	228	U	N1-C2-O2	6.99	127.69	122.80
36	5	497	C	C6-N1-C2	-6.99	117.50	120.30
36	5	1802	C	C6-N1-C2	-6.99	117.50	120.30
1	2	555	A	C8-N9-C4	-6.99	103.01	105.80
36	1	372	A	C6-C5-N7	-6.99	127.41	132.30
36	1	2999	U	C5-C6-N1	-6.99	119.21	122.70
36	1	3009	G	C6-C5-N7	-6.99	126.21	130.40
1	6	1504	G	C2-N3-C4	-6.99	108.41	111.90
36	5	774	G	C5-C6-O6	-6.99	124.41	128.60
36	5	1461	A	C8-N9-C4	6.99	108.59	105.80
36	5	920	A	OP1-P-OP2	-6.98	109.12	119.60
36	5	2601	A	C8-N9-C4	6.98	108.59	105.80
1	2	401	A	C8-N9-C4	6.98	108.59	105.80
36	1	1382	G	OP2-P-O3'	6.98	120.56	105.20
36	1	2550	U	N3-C2-O2	-6.98	117.31	122.20
37	3	82	G	N3-C4-C5	-6.98	125.11	128.60
1	6	758	U	O5'-P-OP1	-6.98	99.42	105.70
1	6	1138	A	C6-N1-C2	6.98	122.79	118.60
36	5	932	U	C2-N3-C4	-6.98	122.81	127.00
36	5	989	A	C5-C6-N6	-6.98	118.11	123.70
36	5	1119	C	O5'-P-OP2	-6.98	99.42	105.70
36	5	3366	G	C4-N9-C1'	6.98	135.58	126.50
38	8	15	G	N7-C8-N9	-6.98	109.61	113.10
36	1	62	A	C6-N1-C2	6.98	122.79	118.60
36	1	2611	U	C4-C5-C6	6.98	123.89	119.70
44	L7	108	LEU	CA-CB-CG	-6.98	99.24	115.30
1	6	1027	A	C2-N3-C4	-6.98	107.11	110.60
36	5	291	C	N3-C4-N4	-6.98	113.11	118.00
36	5	296	A	C8-N9-C4	-6.98	103.01	105.80
36	5	421	G	C8-N9-C1'	-6.98	117.92	127.00
36	5	1213	G	C8-N9-C4	-6.98	103.61	106.40
36	5	1453	A	N7-C8-N9	-6.98	110.31	113.80
36	5	1455	U	N3-C4-O4	6.98	124.29	119.40
36	1	3278	C	O5'-P-OP1	-6.98	99.42	105.70
1	6	607	G	C8-N9-C4	-6.98	103.61	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1599	C	N3-C2-O2	-6.98	117.02	121.90
36	5	1317	A	C5-C6-N6	-6.98	118.12	123.70
36	5	2396	G	C5-C6-N1	6.98	114.99	111.50
1	2	332	U	N3-C4-O4	-6.98	114.52	119.40
1	2	1127	G	C5-C6-N1	-6.98	108.01	111.50
36	1	104	G	C6-C5-N7	-6.98	126.21	130.40
36	1	1323	G	C5-C6-O6	-6.98	124.41	128.60
36	1	1895	A	O5'-P-OP1	6.98	119.07	110.70
36	1	3197	G	N3-C2-N2	-6.98	115.02	119.90
1	6	382	C	N1-C2-O2	-6.98	114.71	118.90
1	6	423	G	N3-C2-N2	-6.98	115.02	119.90
36	5	61	A	N1-C2-N3	6.98	132.79	129.30
36	5	1892	G	C6-N1-C2	-6.98	120.91	125.10
36	5	3020	U	N3-C2-O2	6.98	127.08	122.20
36	1	365	A	C8-N9-C4	-6.98	103.01	105.80
1	6	1480	G	C5-N7-C8	-6.98	100.81	104.30
36	5	804	C	C4-C5-C6	6.98	120.89	117.40
36	5	1615	C	N3-C4-N4	-6.98	113.12	118.00
36	5	2656	A	C4-C5-N7	-6.98	107.21	110.70
36	1	311	C	C5-C4-N4	-6.97	115.32	120.20
36	1	733	G	C4-C5-N7	6.97	113.59	110.80
36	5	198	A	C8-N9-C4	-6.97	103.01	105.80
36	5	432	G	C5-C6-N1	-6.97	108.01	111.50
36	5	1113	G	N1-C2-N3	6.97	128.09	123.90
36	5	1716	U	P-O3'-C3'	6.97	128.07	119.70
36	1	2117	A	C6-N1-C2	-6.97	114.42	118.60
36	1	2340	U	C5-C4-O4	-6.97	121.72	125.90
38	4	18	U	O5'-P-OP2	6.97	119.07	110.70
1	6	610	G	C8-N9-C1'	-6.97	117.94	127.00
36	5	937	G	N3-C2-N2	6.97	124.78	119.90
36	5	2853	A	C5-C6-N6	-6.97	118.12	123.70
36	5	3003	G	C5-C6-N1	6.97	114.99	111.50
36	1	24	G	C8-N9-C4	6.97	109.19	106.40
36	5	2650	U	O5'-P-OP2	-6.97	99.43	105.70
1	2	1206	U	N3-C4-C5	-6.97	110.42	114.60
36	1	4	U	N3-C4-O4	-6.97	114.52	119.40
36	1	87	U	N3-C2-O2	-6.97	117.32	122.20
36	1	2895	G	C8-N9-C1'	-6.97	117.94	127.00
36	1	3107	U	OP2-P-O3'	6.97	120.53	105.20
37	3	85	G	O5'-P-OP2	-6.97	99.43	105.70
36	5	851	C	C6-N1-C2	6.97	123.09	120.30
36	5	1502	C	N3-C4-C5	6.97	124.69	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2850	G	C5-N7-C8	6.97	107.78	104.30
36	5	2855	U	N1-C2-N3	6.97	119.08	114.90
1	2	1789	G	C4-N9-C1'	6.97	135.56	126.50
36	1	702	C	N1-C2-O2	6.97	123.08	118.90
36	1	860	G	N9-C4-C5	-6.97	102.61	105.40
36	1	1311	G	N7-C8-N9	-6.97	109.62	113.10
36	5	424	G	C6-C5-N7	-6.97	126.22	130.40
36	5	2194	G	N1-C2-N3	6.97	128.08	123.90
36	5	3392	U	N3-C2-O2	-6.97	117.32	122.20
1	2	639	U	N1-C2-O2	6.97	127.68	122.80
36	1	1477	A	C5-C6-N1	6.97	121.18	117.70
36	1	2655	U	N3-C4-C5	-6.97	110.42	114.60
1	6	371	G	C6-C5-N7	-6.97	126.22	130.40
36	5	1184	A	C4-C5-C6	-6.97	113.52	117.00
1	6	1026	A	O5'-P-OP1	-6.96	99.43	105.70
36	5	1115	G	C4-C5-C6	6.96	122.98	118.80
37	7	67	G	C5-C6-N1	-6.96	108.02	111.50
38	8	15	G	C5-C6-O6	6.96	132.78	128.60
1	2	419	G	N1-C6-O6	6.96	124.08	119.90
36	5	1318	A	C8-N9-C4	6.96	108.58	105.80
36	5	2922	G	OP1-P-O3'	6.96	120.52	105.20
1	2	1625	C	C2-N1-C1'	-6.96	111.14	118.80
36	1	913	A	C4-C5-C6	6.96	120.48	117.00
1	6	400	A	N1-C6-N6	6.96	122.78	118.60
1	6	1396	U	C5-C4-O4	6.96	130.08	125.90
1	6	1671	A	N1-C2-N3	6.96	132.78	129.30
36	5	515	C	N3-C4-N4	-6.96	113.13	118.00
36	5	1004	U	C6-N1-C2	-6.96	116.82	121.00
36	5	1300	G	C5-C6-N1	-6.96	108.02	111.50
40	13	5	LYS	CD-CE-NZ	6.96	127.71	111.70
36	1	14	U	N3-C2-O2	-6.96	117.33	122.20
36	1	394	G	C2-N3-C4	6.96	115.38	111.90
36	1	495	G	C2-N3-C4	-6.96	108.42	111.90
36	1	3271	G	N3-C2-N2	6.96	124.77	119.90
1	6	1730	A	N1-C2-N3	6.96	132.78	129.30
36	5	1065	A	O5'-P-OP1	-6.96	99.44	105.70
36	5	2662	G	C6-N1-C2	-6.96	120.92	125.10
36	5	2714	G	OP1-P-O3'	6.96	120.51	105.20
36	5	3005	A	C6-C5-N7	-6.96	127.43	132.30
1	2	377	G	N3-C2-N2	-6.96	115.03	119.90
1	2	1147	A	C8-N9-C4	-6.96	103.02	105.80
36	1	63	A	N1-C6-N6	6.96	122.78	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	197	G	O5'-P-OP1	-6.96	99.44	105.70
36	1	1544	G	O5'-P-OP2	-6.96	99.44	105.70
36	1	1665	C	C6-N1-C2	6.96	123.08	120.30
36	1	2720	G	OP2-P-O3'	6.96	120.51	105.20
36	1	3083	G	N7-C8-N9	-6.96	109.62	113.10
1	6	609	U	C5-C6-N1	-6.96	119.22	122.70
36	5	3129	A	OP2-P-O3'	6.96	120.51	105.20
36	1	1920	U	N1-C2-N3	6.96	119.07	114.90
36	1	3009	G	C2-N3-C4	-6.96	108.42	111.90
1	6	175	G	C5-C6-O6	-6.96	124.43	128.60
1	6	578	U	C2-N1-C1'	-6.96	109.35	117.70
1	6	1354	G	N7-C8-N9	6.96	116.58	113.10
1	6	1525	A	N9-C4-C5	6.96	108.58	105.80
1	6	1663	G	O5'-P-OP1	6.96	119.05	110.70
1	6	1730	A	C5-C6-N6	6.96	129.27	123.70
36	5	940	G	C2-N3-C4	6.96	115.38	111.90
36	5	1544	G	N1-C2-N3	6.96	128.07	123.90
36	5	2698	G	N1-C6-O6	6.96	124.07	119.90
36	5	2988	C	N3-C4-N4	6.96	122.87	118.00
36	5	3172	A	C8-N9-C4	6.96	108.58	105.80
36	5	3295	A	N1-C6-N6	-6.96	114.43	118.60
1	2	1143	A	C4-C5-C6	-6.96	113.52	117.00
36	1	339	C	N1-C2-N3	6.96	124.07	119.20
36	1	754	G	C8-N9-C4	6.96	109.18	106.40
36	1	1898	G	C5-C6-N1	6.95	114.98	111.50
36	1	2866	U	N3-C4-O4	-6.95	114.53	119.40
36	1	2881	C	C2-N1-C1'	-6.95	111.15	118.80
36	1	2997	G	C6-C5-N7	-6.95	126.23	130.40
1	6	392	G	C5-C6-O6	-6.95	124.43	128.60
1	6	1448	G	O5'-P-OP2	-6.95	99.44	105.70
1	6	1527	C	O5'-P-OP2	-6.95	99.44	105.70
36	5	2391	G	C4-C5-N7	-6.95	108.02	110.80
37	7	46	A	C5-C6-N1	6.95	121.18	117.70
3	s1	115	ARG	NE-CZ-NH1	6.95	123.78	120.30
36	5	2743	A	C6-N1-C2	-6.95	114.43	118.60
37	7	45	A	O5'-P-OP1	6.95	119.04	110.70
36	1	61	A	C5-N7-C8	-6.95	100.42	103.90
36	1	1936	A	C5-C6-N1	6.95	121.17	117.70
1	6	789	A	N9-C4-C5	6.95	108.58	105.80
1	6	1484	G	N1-C6-O6	-6.95	115.73	119.90
36	5	375	A	OP1-P-O3'	6.95	120.49	105.20
36	5	2204	C	C6-N1-C2	-6.95	117.52	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	133	G	N3-C4-C5	6.95	132.08	128.60
36	1	215	G	O5'-P-OP2	-6.95	99.45	105.70
36	1	1399	A	C5-C6-N1	-6.95	114.23	117.70
36	1	2299	A	C8-N9-C4	-6.95	103.02	105.80
36	1	2935	U	N3-C4-C5	-6.95	110.43	114.60
1	6	1074	G	C2-N3-C4	-6.95	108.42	111.90
1	6	1622	G	C6-C5-N7	-6.95	126.23	130.40
36	5	553	U	N3-C2-O2	-6.95	117.34	122.20
36	5	2279	A	N1-C6-N6	6.95	122.77	118.60
36	5	2851	A	N7-C8-N9	-6.95	110.33	113.80
36	5	3197	G	N1-C6-O6	6.95	124.07	119.90
36	1	208	C	C5-C4-N4	-6.95	115.34	120.20
36	1	1155	C	OP1-P-O3'	6.95	120.48	105.20
36	1	1213	G	C5-C6-O6	-6.95	124.43	128.60
36	5	2722	U	P-O3'-C3'	6.95	128.04	119.70
1	2	458	G	N3-C4-N9	-6.95	121.83	126.00
38	4	104	A	N1-C6-N6	-6.95	114.43	118.60
1	6	58	U	C6-N1-C2	-6.95	116.83	121.00
1	6	942	G	N9-C4-C5	6.95	108.18	105.40
1	6	971	A	N3-C4-C5	6.95	131.66	126.80
36	5	910	G	N3-C4-C5	6.95	132.07	128.60
36	5	969	C	N1-C2-N3	6.95	124.06	119.20
36	5	3084	C	OP2-P-O3'	6.95	120.48	105.20
36	1	1396	C	N3-C4-N4	6.94	122.86	118.00
1	6	1498	G	N9-C4-C5	-6.94	102.62	105.40
36	5	1135	A	O5'-P-OP2	-6.94	99.45	105.70
36	5	2764	C	C5-C6-N1	6.94	124.47	121.00
36	1	225	C	C2-N1-C1'	6.94	126.44	118.80
36	1	699	A	N3-C4-N9	-6.94	121.85	127.40
36	1	963	G	N9-C4-C5	-6.94	102.62	105.40
36	1	2306	C	C6-N1-C1'	-6.94	112.47	120.80
36	5	2937	G	C5-C6-O6	-6.94	124.43	128.60
36	5	3136	G	N1-C6-O6	6.94	124.07	119.90
38	8	100	U	C2-N1-C1'	6.94	126.03	117.70
1	2	515	A	N7-C8-N9	6.94	117.27	113.80
1	2	990	C	C6-N1-C2	-6.94	117.52	120.30
36	1	39	A	C5-N7-C8	-6.94	100.43	103.90
36	1	889	U	C5-C6-N1	-6.94	119.23	122.70
36	1	1355	A	N1-C6-N6	6.94	122.76	118.60
36	1	1893	A	N1-C2-N3	6.94	132.77	129.30
36	1	2423	U	C5-C6-N1	6.94	126.17	122.70
36	5	1342	C	OP1-P-OP2	6.94	130.01	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1498	A	N9-C4-C5	6.94	108.58	105.80
36	1	404	G	N9-C4-C5	-6.94	102.62	105.40
36	1	2182	A	O5'-P-OP2	6.94	119.03	110.70
36	1	2983	C	C5-C4-N4	6.94	125.06	120.20
36	1	3230	G	N3-C4-N9	-6.94	121.84	126.00
36	1	3305	A	C4-C5-C6	6.94	120.47	117.00
1	6	1586	A	C5-C6-N1	6.94	121.17	117.70
36	5	951	A	N9-C4-C5	6.94	108.58	105.80
37	3	79	A	C5-C6-N1	-6.94	114.23	117.70
1	6	752	A	N1-C6-N6	6.94	122.76	118.60
36	5	197	G	N7-C8-N9	6.94	116.57	113.10
36	5	3366	G	C4-C5-C6	6.94	122.96	118.80
1	2	1572	G	N1-C6-O6	6.94	124.06	119.90
36	1	1127	G	N1-C2-N3	6.94	128.06	123.90
36	1	1783	U	C5-C4-O4	6.94	130.06	125.90
36	1	2627	C	N1-C2-N3	6.94	124.06	119.20
36	1	3362	A	C8-N9-C4	-6.94	103.03	105.80
36	5	1386	A	N7-C8-N9	6.94	117.27	113.80
1	2	1186	U	C5-C4-O4	6.93	130.06	125.90
1	2	1558	U	N1-C2-O2	6.93	127.65	122.80
1	2	1610	G	N3-C4-N9	6.93	130.16	126.00
36	1	26	A	C8-N9-C4	-6.93	103.03	105.80
36	1	112	U	C5-C6-N1	-6.93	119.23	122.70
36	1	594	U	C5-C4-O4	6.93	130.06	125.90
36	1	712	G	C8-N9-C4	6.93	109.17	106.40
36	1	2880	U	N3-C2-O2	-6.93	117.35	122.20
36	1	2974	U	N1-C2-O2	-6.93	117.95	122.80
36	1	3085	G	C4-C5-N7	6.93	113.57	110.80
53	M7	138	LYS	CD-CE-NZ	6.93	127.65	111.70
36	5	2244	A	C5-C6-N1	6.93	121.17	117.70
37	7	67	G	N1-C6-O6	6.93	124.06	119.90
36	1	53	G	C8-N9-C1'	-6.93	117.99	127.00
36	1	873	C	N1-C2-O2	-6.93	114.74	118.90
36	1	1443	G	N9-C4-C5	-6.93	102.63	105.40
36	1	2698	G	N1-C6-O6	6.93	124.06	119.90
1	6	1025	A	C2-N3-C4	-6.93	107.13	110.60
36	5	1899	G	C8-N9-C4	6.93	109.17	106.40
36	5	2613	U	C6-N1-C2	-6.93	116.84	121.00
36	5	2706	G	C5-C6-N1	6.93	114.97	111.50
36	5	3052	G	N1-C2-N2	-6.93	109.96	116.20
37	7	25	G	C5-C6-N1	6.93	114.97	111.50
38	8	80	A	N7-C8-N9	6.93	117.27	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	921	A	C6-N1-C2	-6.93	114.44	118.60
36	5	927	C	C2-N1-C1'	6.93	126.42	118.80
36	5	1060	U	N1-C2-N3	6.93	119.06	114.90
36	5	1582	C	C5-C4-N4	-6.93	115.35	120.20
36	5	2164	A	N9-C4-C5	6.93	108.57	105.80
36	5	2375	G	N1-C2-N3	6.93	128.06	123.90
36	5	2984	C	N1-C2-N3	6.93	124.05	119.20
38	8	47	C	N3-C4-N4	-6.93	113.15	118.00
36	1	700	C	C2-N1-C1'	-6.93	111.18	118.80
36	1	865	U	N3-C4-O4	-6.93	114.55	119.40
38	4	39	G	C5-C6-O6	-6.93	124.44	128.60
36	5	817	A	OP2-P-O3'	6.93	120.45	105.20
36	5	2677	G	N1-C6-O6	6.93	124.06	119.90
36	1	369	A	C8-N9-C4	-6.93	103.03	105.80
36	1	1204	A	N1-C2-N3	6.93	132.76	129.30
36	1	2405	C	N3-C4-C5	-6.93	119.13	121.90
1	2	1217	A	C5-N7-C8	-6.93	100.44	103.90
1	2	1558	U	C6-N1-C1'	-6.93	111.50	121.20
36	5	718	G	C4-C5-N7	6.93	113.57	110.80
36	5	2905	U	C5-C6-N1	-6.93	119.24	122.70
36	5	2930	A	O4'-C1'-N9	6.93	113.74	108.20
36	1	1313	G	C4-C5-N7	6.92	113.57	110.80
36	1	3178	A	C2-N3-C4	-6.92	107.14	110.60
75	O9	13	MET	CB-CG-SD	-6.92	91.62	112.40
1	6	553	G	C5-C6-O6	-6.92	124.45	128.60
1	6	876	G	C8-N9-C1'	6.92	136.00	127.00
36	5	1332	A	N1-C6-N6	6.92	122.75	118.60
36	5	2368	A	C8-N9-C4	-6.92	103.03	105.80
36	5	3337	G	O5'-P-OP2	-6.92	99.47	105.70
1	2	1631	A	C8-N9-C4	-6.92	103.03	105.80
36	1	978	G	C8-N9-C4	6.92	109.17	106.40
36	5	3052	G	OP2-P-O3'	6.92	120.43	105.20
36	1	1667	A	C8-N9-C4	-6.92	103.03	105.80
36	1	2775	U	N3-C4-O4	-6.92	114.56	119.40
38	4	10	A	C5-N7-C8	6.92	107.36	103.90
1	6	1108	G	N1-C6-O6	-6.92	115.75	119.90
36	5	421	G	C6-N1-C2	-6.92	120.95	125.10
36	5	779	G	C8-N9-C4	-6.92	103.63	106.40
36	5	821	U	N3-C4-C5	-6.92	110.45	114.60
36	5	1046	A	N9-C4-C5	6.92	108.57	105.80
36	1	2322	C	C5-C6-N1	6.92	124.46	121.00
38	4	30	C	C6-N1-C2	6.92	123.07	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	138	A	C4-C5-N7	-6.92	107.24	110.70
36	1	386	A	C6-C5-N7	-6.92	127.46	132.30
36	1	953	G	C6-C5-N7	6.92	134.55	130.40
1	6	410	A	N1-C2-N3	6.92	132.76	129.30
1	6	1350	U	C5-C6-N1	-6.92	119.24	122.70
1	6	1673	G	N9-C4-C5	-6.92	102.63	105.40
1	6	1774	G	N3-C2-N2	-6.92	115.06	119.90
36	5	2939	G	N1-C6-O6	6.92	124.05	119.90
37	7	56	A	C6-C5-N7	-6.92	127.46	132.30
37	7	68	C	N1-C2-N3	6.92	124.04	119.20
37	7	104	A	O5'-P-OP2	-6.92	99.47	105.70
1	2	48	G	C8-N9-C4	-6.92	103.63	106.40
36	1	75	G	N1-C6-O6	6.92	124.05	119.90
36	1	802	C	N1-C2-N3	6.92	124.04	119.20
36	1	1365	G	N7-C8-N9	6.92	116.56	113.10
36	1	2635	A	C5-C6-N6	6.92	129.23	123.70
36	1	3013	U	O5'-P-OP2	-6.92	99.48	105.70
36	5	2354	C	C6-N1-C2	-6.92	117.53	120.30
36	5	3188	G	C5-C6-N1	6.92	114.96	111.50
36	1	2941	A	OP1-P-O3'	6.92	120.41	105.20
36	1	2964	G	C2-N3-C4	-6.92	108.44	111.90
36	5	1160	C	OP2-P-O3'	6.92	120.41	105.20
36	5	3346	U	C2-N1-C1'	6.92	126.00	117.70
1	2	1152	A	C8-N9-C4	6.91	108.56	105.80
36	1	512	U	N3-C4-O4	6.91	124.24	119.40
36	1	885	U	OP1-P-O3'	6.91	120.41	105.20
36	1	1134	G	N9-C4-C5	6.91	108.17	105.40
36	1	1170	A	C4-C5-N7	6.91	114.16	110.70
36	1	1670	C	N1-C2-O2	-6.91	114.75	118.90
36	1	3319	U	C6-N1-C1'	-6.91	111.52	121.20
1	6	144	U	C6-N1-C1'	-6.91	111.52	121.20
1	6	1572	G	N3-C2-N2	-6.91	115.06	119.90
1	6	1604	U	N3-C4-O4	6.91	124.24	119.40
36	5	364	G	N1-C2-N2	-6.91	109.98	116.20
36	5	726	G	N7-C8-N9	6.91	116.56	113.10
36	5	1321	G	C4-C5-C6	6.91	122.95	118.80
36	5	2636	A	N1-C2-N3	6.91	132.76	129.30
36	1	3266	G	N7-C8-N9	6.91	116.56	113.10
37	3	82	G	N1-C2-N2	-6.91	109.98	116.20
36	5	968	G	C8-N9-C4	6.91	109.17	106.40
36	5	1508	C	C6-N1-C2	-6.91	117.53	120.30
36	1	2884	C	N3-C4-C5	6.91	124.66	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3203	U	N3-C4-C5	-6.91	110.45	114.60
36	5	1582	C	C4-C5-C6	-6.91	113.94	117.40
1	2	551	G	C5-C6-N1	-6.91	108.05	111.50
36	1	233	C	C5-C6-N1	-6.91	117.55	121.00
36	1	601	U	N3-C2-O2	-6.91	117.36	122.20
36	1	1432	C	N3-C2-O2	-6.91	117.06	121.90
36	1	2808	A	O4'-C1'-N9	-6.91	102.67	108.20
1	6	448	C	C6-N1-C1'	6.91	129.09	120.80
1	6	461	G	N3-C4-N9	6.91	130.15	126.00
1	6	549	G	N1-C6-O6	6.91	124.05	119.90
36	5	805	G	N3-C4-N9	6.91	130.15	126.00
36	5	1205	A	C2-N3-C4	-6.91	107.15	110.60
36	5	1886	A	N9-C4-C5	6.91	108.56	105.80
36	5	2225	U	N3-C2-O2	-6.91	117.36	122.20
36	5	3246	G	C5-N7-C8	-6.91	100.85	104.30
36	5	3389	U	C5-C6-N1	6.91	126.16	122.70
37	7	2	G	C5-C6-O6	6.91	132.75	128.60
36	1	2961	G	N1-C2-N2	-6.91	109.98	116.20
36	5	1076	C	C2-N3-C4	-6.91	116.45	119.90
36	5	1834	U	C4-C5-C6	6.91	123.84	119.70
36	5	2116	G	N3-C2-N2	-6.91	115.06	119.90
36	5	2729	U	C5-C4-O4	6.91	130.04	125.90
36	5	3010	U	C5-C4-O4	6.91	130.04	125.90
36	1	199	A	O4'-C1'-N9	6.91	113.72	108.20
36	1	1190	A	C2-N3-C4	6.91	114.05	110.60
36	1	1317	A	N7-C8-N9	6.91	117.25	113.80
36	1	1880	U	O5'-P-OP1	6.91	118.99	110.70
36	1	2839	G	C5-N7-C8	-6.91	100.85	104.30
36	1	2932	U	N3-C4-O4	-6.91	114.57	119.40
36	5	32	U	N3-C2-O2	-6.91	117.37	122.20
36	5	56	G	N7-C8-N9	-6.91	109.65	113.10
36	5	65	A	P-O3'-C3'	6.91	127.99	119.70
36	5	2288	G	C4-C5-N7	6.91	113.56	110.80
1	2	1339	C	N3-C4-C5	6.90	124.66	121.90
36	1	2210	G	N1-C6-O6	-6.90	115.76	119.90
36	1	2326	A	C5-N7-C8	-6.90	100.45	103.90
1	6	55	A	N1-C6-N6	-6.90	114.46	118.60
1	6	427	C	N3-C4-N4	-6.90	113.17	118.00
36	5	584	G	N7-C8-N9	6.90	116.55	113.10
36	5	2524	A	N7-C8-N9	6.90	117.25	113.80
36	5	3315	G	N1-C2-N2	-6.90	109.99	116.20
37	7	56	A	C2-N3-C4	-6.90	107.15	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1208	A	C2-N3-C4	-6.90	107.15	110.60
1	2	1214	U	N3-C2-O2	-6.90	117.37	122.20
36	1	2802	A	OP2-P-O3'	6.90	120.38	105.20
36	5	2906	C	N3-C2-O2	6.90	126.73	121.90
38	8	15	G	N1-C6-O6	-6.90	115.76	119.90
1	2	1579	U	N1-C2-O2	6.90	127.63	122.80
36	5	3096	C	OP1-P-O3'	-6.90	90.02	105.20
1	2	1745	G	C8-N9-C4	6.90	109.16	106.40
36	1	640	U	OP1-P-OP2	-6.90	109.25	119.60
36	1	2296	A	O5'-P-OP1	-6.90	99.49	105.70
36	1	2857	C	C6-N1-C2	-6.90	117.54	120.30
36	1	2994	A	C4-C5-C6	6.90	120.45	117.00
36	1	3137	C	C2-N1-C1'	-6.90	111.21	118.80
1	6	1535	U	C2-N3-C4	-6.90	122.86	127.00
36	5	139	G	O5'-P-OP1	-6.90	99.49	105.70
1	2	60	U	C5-C6-N1	6.90	126.15	122.70
36	1	345	G	N1-C6-O6	6.90	124.04	119.90
36	1	1530	U	C6-N1-C2	6.90	125.14	121.00
1	6	1207	C	P-O3'-C3'	6.90	127.97	119.70
36	5	1040	A	C8-N9-C4	6.90	108.56	105.80
36	5	3298	C	C5-C6-N1	-6.90	117.55	121.00
36	1	183	G	N3-C4-N9	6.89	130.14	126.00
36	1	803	C	C5-C4-N4	-6.89	115.37	120.20
36	1	1166	G	N9-C4-C5	-6.89	102.64	105.40
36	1	1658	G	N9-C4-C5	6.89	108.16	105.40
36	1	1920	U	C6-N1-C2	-6.89	116.86	121.00
36	1	2380	U	N3-C4-O4	-6.89	114.57	119.40
1	6	107	C	N3-C4-C5	-6.89	119.14	121.90
36	5	1439	U	N1-C2-O2	-6.89	117.97	122.80
36	5	1725	C	N3-C4-N4	6.89	122.83	118.00
1	2	1541	G	C6-C5-N7	-6.89	126.27	130.40
36	1	622	A	N9-C4-C5	-6.89	103.04	105.80
36	1	949	C	C4-C5-C6	6.89	120.85	117.40
36	1	2605	G	N1-C6-O6	6.89	124.03	119.90
36	1	2946	A	C8-N9-C4	-6.89	103.04	105.80
36	5	2821	C	C2-N1-C1'	6.89	126.38	118.80
36	5	2878	G	C8-N9-C4	-6.89	103.64	106.40
36	5	3063	C	C5-C6-N1	-6.89	117.55	121.00
36	1	1556	C	N1-C2-N3	6.89	124.02	119.20
36	1	2236	G	C6-C5-N7	-6.89	126.27	130.40
73	O7	5	THR	C-N-CD	6.89	142.87	128.40
1	6	816	G	C8-N9-C4	6.89	109.16	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1486	G	N3-C4-N9	-6.89	121.87	126.00
36	5	2898	G	OP2-P-O3'	6.89	120.36	105.20
36	1	1365	G	C5-N7-C8	-6.89	100.86	104.30
36	1	1885	U	C5-C6-N1	-6.89	119.25	122.70
36	5	2161	G	N3-C4-C5	-6.89	125.16	128.60
36	5	2386	A	N7-C8-N9	6.89	117.25	113.80
36	5	2870	C	N3-C4-C5	6.89	124.66	121.90
36	5	2934	A	C2-N3-C4	-6.89	107.16	110.60
1	2	507	U	C2-N1-C1'	6.89	125.97	117.70
36	1	2787	G	C5-C6-O6	-6.89	124.47	128.60
36	1	2993	G	C4-N9-C1'	6.89	135.45	126.50
38	4	17	A	OP2-P-O3'	6.89	120.35	105.20
36	5	2403	G	O5'-P-OP2	-6.89	99.50	105.70
36	5	2614	G	C4-C5-N7	6.89	113.56	110.80
36	5	2926	A	C4-C5-C6	6.89	120.44	117.00
36	1	285	A	C5-C6-N6	-6.89	118.19	123.70
36	1	574	U	N1-C2-O2	-6.89	117.98	122.80
36	1	1893	A	O5'-P-OP2	-6.89	99.50	105.70
36	1	3361	G	N3-C4-C5	-6.89	125.16	128.60
1	6	542	A	C8-N9-C4	-6.89	103.05	105.80
36	5	1381	A	O5'-P-OP2	6.89	118.97	110.70
36	5	2247	G	N1-C2-N2	-6.89	110.00	116.20
36	5	2977	G	C5-N7-C8	-6.89	100.86	104.30
1	2	1498	G	C8-N9-C1'	-6.88	118.05	127.00
38	4	46	G	C4-N9-C1'	6.88	135.45	126.50
36	5	744	A	N1-C6-N6	6.88	122.73	118.60
36	5	874	U	C6-N1-C1'	6.88	130.84	121.20
36	5	1355	A	C5-C6-N6	6.88	129.21	123.70
36	5	2851	A	N9-C4-C5	6.88	108.55	105.80
36	1	41	G	N1-C2-N3	-6.88	119.77	123.90
36	1	2957	G	C5-N7-C8	-6.88	100.86	104.30
1	6	1241	G	C6-C5-N7	-6.88	126.27	130.40
36	5	1272	C	C6-N1-C2	-6.88	117.55	120.30
36	1	284	A	C4-C5-C6	6.88	120.44	117.00
36	1	750	G	OP2-P-O3'	6.88	120.34	105.20
1	6	1086	A	N3-C4-N9	-6.88	121.89	127.40
36	5	1311	G	C4-C5-C6	6.88	122.93	118.80
36	5	1422	G	N1-C6-O6	6.88	124.03	119.90
36	5	2966	G	N1-C2-N3	6.88	128.03	123.90
36	5	3148	U	N3-C2-O2	-6.88	117.38	122.20
37	7	1	G	N3-C4-N9	6.88	130.13	126.00
37	7	69	C	C5-C4-N4	-6.88	115.38	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	N0	115	ARG	NE-CZ-NH1	6.88	123.74	120.30
36	5	724	U	N1-C2-N3	6.88	119.03	114.90
36	5	1206	G	N3-C4-C5	-6.88	125.16	128.60
36	5	2274	U	N3-C2-O2	6.88	127.02	122.20
36	1	272	G	C4-N9-C1'	-6.88	117.56	126.50
36	1	3374	U	C6-N1-C2	6.88	125.13	121.00
1	6	54	C	C2-N3-C4	-6.88	116.46	119.90
1	6	1028	C	C2-N3-C4	-6.88	116.46	119.90
36	5	349	A	N9-C4-C5	6.88	108.55	105.80
36	5	569	A	C5-C6-N6	-6.88	118.20	123.70
36	5	2673	A	C5-N7-C8	6.88	107.34	103.90
36	5	2828	G	C5-C6-N1	6.88	114.94	111.50
1	2	51	A	C8-N9-C4	6.88	108.55	105.80
36	1	33	G	N3-C4-N9	-6.88	121.87	126.00
38	4	27	U	C5-C6-N1	6.88	126.14	122.70
36	5	842	G	N7-C8-N9	-6.88	109.66	113.10
36	5	1239	C	C5-C6-N1	6.88	124.44	121.00
37	7	10	C	C2-N1-C1'	6.88	126.36	118.80
37	7	47	C	C2-N3-C4	-6.88	116.46	119.90
36	1	1148	G	C4-C5-N7	6.88	113.55	110.80
36	5	718	G	N1-C6-O6	6.88	124.03	119.90
1	2	1358	G	C8-N9-C4	6.87	109.15	106.40
36	1	131	C	C6-N1-C2	-6.87	117.55	120.30
36	1	655	C	N3-C2-O2	-6.87	117.09	121.90
36	1	1157	G	OP2-P-O3'	6.87	120.32	105.20
36	1	2196	C	C6-N1-C2	6.87	123.05	120.30
36	1	2934	A	C2-N3-C4	-6.87	107.16	110.60
1	6	403	G	N3-C2-N2	-6.87	115.09	119.90
36	5	404	G	C8-N9-C1'	-6.87	118.06	127.00
36	5	689	U	OP2-P-O3'	6.87	120.32	105.20
36	5	1005	G	N3-C4-C5	6.87	132.04	128.60
36	5	1178	G	OP1-P-OP2	6.87	129.91	119.60
36	5	2135	U	N1-C2-O2	6.87	127.61	122.80
36	5	2392	C	N3-C2-O2	6.87	126.71	121.90
36	5	2410	U	C4-C5-C6	-6.87	115.58	119.70
36	5	2613	U	N1-C2-N3	6.87	119.02	114.90
1	2	1200	G	C6-C5-N7	-6.87	126.28	130.40
36	1	1337	A	N1-C2-N3	6.87	132.74	129.30
36	1	1345	G	C6-C5-N7	-6.87	126.28	130.40
36	1	1407	A	C5-C6-N1	6.87	121.14	117.70
36	1	1501	U	C5-C6-N1	6.87	126.14	122.70
36	1	2824	G	C8-N9-C1'	-6.87	118.07	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1197	C	O5'-P-OP2	-6.87	99.52	105.70
36	5	2919	A	N1-C6-N6	-6.87	114.48	118.60
36	5	2955	U	N3-C4-O4	6.87	124.21	119.40
37	7	101	G	C2-N3-C4	-6.87	108.47	111.90
37	7	102	A	N9-C4-C5	-6.87	103.05	105.80
36	1	48	A	N1-C2-N3	6.87	132.74	129.30
38	4	53	A	O5'-P-OP2	-6.87	99.52	105.70
1	6	779	U	N3-C2-O2	-6.87	117.39	122.20
36	5	2855	U	C4-C5-C6	6.87	123.82	119.70
1	2	111	U	N3-C4-O4	6.87	124.21	119.40
36	1	84	U	C5-C6-N1	-6.87	119.27	122.70
36	1	1154	A	C8-N9-C4	-6.87	103.05	105.80
36	1	1177	G	N1-C6-O6	6.87	124.02	119.90
36	1	1449	A	C8-N9-C4	-6.87	103.05	105.80
36	1	1661	G	N1-C2-N2	-6.87	110.02	116.20
36	5	1045	C	C2-N3-C4	-6.87	116.47	119.90
36	5	1931	U	C5-C4-O4	6.87	130.02	125.90
36	5	3197	G	N3-C2-N2	-6.87	115.09	119.90
36	5	3212	C	C2-N1-C1'	-6.87	111.24	118.80
36	1	3031	G	N3-C4-C5	6.87	132.03	128.60
1	6	746	A	C6-C5-N7	-6.87	127.49	132.30
1	6	1346	A	O4'-C1'-N9	6.87	113.69	108.20
36	5	1364	C	N3-C2-O2	-6.87	117.09	121.90
1	2	1135	U	C5-C4-O4	6.87	130.02	125.90
36	5	2617	U	N3-C4-C5	-6.87	110.48	114.60
36	5	2633	U	N3-C4-C5	-6.87	110.48	114.60
36	1	707	U	C4-C5-C6	6.86	123.82	119.70
36	1	907	G	N3-C4-N9	6.86	130.12	126.00
36	5	1199	C	C4-C5-C6	6.86	120.83	117.40
38	8	38	U	N1-C2-O2	6.86	127.60	122.80
36	1	223	U	N3-C4-O4	-6.86	114.60	119.40
36	1	2240	G	C5-C6-N1	-6.86	108.07	111.50
1	6	1546	G	N3-C4-N9	6.86	130.12	126.00
36	5	189	G	C5-C6-O6	6.86	132.72	128.60
36	5	1508	C	N3-C4-C5	-6.86	119.16	121.90
36	5	2637	A	C6-N1-C2	-6.86	114.48	118.60
36	5	3322	A	C6-C5-N7	-6.86	127.50	132.30
1	2	1150	G	C8-N9-C4	-6.86	103.66	106.40
36	1	112	U	O4'-C1'-N1	6.86	113.69	108.20
36	1	1493	G	N3-C4-N9	-6.86	121.88	126.00
36	1	2613	U	N3-C4-O4	6.86	124.20	119.40
38	4	4	C	C2-N1-C1'	6.86	126.35	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	359	A	C4-N9-C1'	-6.86	113.95	126.30
1	6	1735	U	N1-C2-N3	6.86	119.02	114.90
1	2	1271	G	C8-N9-C4	6.86	109.14	106.40
36	1	2787	G	C4-C5-N7	6.86	113.54	110.80
1	6	1282	U	C6-N1-C2	-6.86	116.88	121.00
36	5	1510	G	O5'-P-OP1	-6.86	99.53	105.70
36	5	2756	C	N3-C4-C5	6.86	124.64	121.90
36	5	3040	A	N7-C8-N9	-6.86	110.37	113.80
36	5	342	A	C2-N3-C4	6.86	114.03	110.60
36	5	432	G	N1-C6-O6	6.86	124.01	119.90
36	5	712	G	C5-C6-O6	-6.86	124.48	128.60
36	5	2190	U	N3-C4-C5	-6.86	110.48	114.60
36	5	2276	G	N1-C6-O6	-6.86	115.78	119.90
36	1	2112	U	O5'-P-OP2	-6.86	99.53	105.70
36	1	2304	C	C6-N1-C2	6.86	123.04	120.30
36	1	2368	A	O5'-P-OP1	6.86	118.93	110.70
36	1	2812	C	O5'-P-OP2	6.86	118.93	110.70
36	5	1126	G	N1-C6-O6	6.86	124.01	119.90
36	5	3013	U	C2-N1-C1'	6.86	125.93	117.70
36	5	3219	G	N1-C6-O6	-6.86	115.79	119.90
1	6	569	C	N3-C2-O2	-6.85	117.10	121.90
1	6	1512	G	N1-C6-O6	6.85	124.01	119.90
36	1	881	C	N3-C2-O2	-6.85	117.10	121.90
36	1	1886	A	C5-N7-C8	-6.85	100.47	103.90
1	6	160	C	C6-N1-C2	6.85	123.04	120.30
36	5	1101	G	C5-C6-N1	6.85	114.93	111.50
36	5	1192	C	C4-C5-C6	6.85	120.83	117.40
36	5	2330	C	C2-N1-C1'	6.85	126.34	118.80
36	1	2278	C	C4-C5-C6	-6.85	113.97	117.40
36	1	2418	G	N3-C4-C5	-6.85	125.17	128.60
36	5	962	A	C2-N3-C4	-6.85	107.17	110.60
36	5	3129	A	N9-C4-C5	6.85	108.54	105.80
36	5	3226	A	C5-C6-N6	6.85	129.18	123.70
38	8	2	A	C5-N7-C8	-6.85	100.47	103.90
1	2	1212	G	C4-C5-N7	6.85	113.54	110.80
36	1	1224	C	N1-C2-O2	6.85	123.01	118.90
36	1	2608	G	C5-C6-O6	-6.85	124.49	128.60
36	1	3256	G	C6-C5-N7	-6.85	126.29	130.40
1	6	797	G	C4-N9-C1'	-6.85	117.59	126.50
36	5	407	A	O4'-C1'-N9	-6.85	102.72	108.20
36	5	1794	G	N3-C4-N9	-6.85	121.89	126.00
36	5	2285	C	N3-C2-O2	-6.85	117.11	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2404	A	C5-C6-N6	6.85	129.18	123.70
36	5	3201	C	N3-C4-C5	-6.85	119.16	121.90
1	2	1515	A	N1-C6-N6	-6.85	114.49	118.60
36	1	102	C	C6-N1-C1'	-6.85	112.58	120.80
36	1	3117	C	C6-N1-C2	-6.85	117.56	120.30
1	6	1110	G	C4-N9-C1'	6.85	135.40	126.50
1	6	1274	C	N3-C4-C5	-6.85	119.16	121.90
36	5	913	A	C4-C5-N7	-6.85	107.28	110.70
36	5	1150	A	C5-N7-C8	-6.85	100.48	103.90
36	5	1485	G	N3-C2-N2	6.85	124.69	119.90
36	5	2290	C	C5-C6-N1	-6.85	117.58	121.00
36	5	2296	A	N9-C4-C5	-6.85	103.06	105.80
36	5	2830	G	N1-C2-N3	6.85	128.01	123.90
36	5	2921	U	C5-C6-N1	-6.85	119.28	122.70
1	2	111	U	N1-C2-N3	-6.85	110.79	114.90
1	2	433	C	C6-N1-C2	6.85	123.04	120.30
1	2	1517	U	N3-C4-C5	-6.85	110.49	114.60
36	1	1436	U	OP1-P-OP2	-6.85	109.33	119.60
36	1	2315	G	C5-C6-N1	-6.85	108.08	111.50
36	1	2887	A	C6-N1-C2	-6.85	114.49	118.60
36	1	3055	U	C6-N1-C2	6.85	125.11	121.00
36	5	345	G	C8-N9-C4	6.85	109.14	106.40
36	5	1139	G	OP2-P-O3'	6.85	120.26	105.20
1	2	119	A	C8-N9-C4	6.84	108.54	105.80
36	1	952	A	N1-C6-N6	-6.84	114.49	118.60
36	1	1209	G	C8-N9-C1'	-6.84	118.10	127.00
36	1	1282	G	C5-C6-O6	-6.84	124.49	128.60
36	1	1525	G	O5'-P-OP2	-6.84	99.54	105.70
36	1	2179	C	OP2-P-O3'	6.84	120.26	105.20
36	1	2964	G	OP1-P-OP2	6.84	129.87	119.60
1	6	1168	U	C5-C6-N1	6.84	126.12	122.70
36	5	1376	C	C5-C6-N1	6.84	124.42	121.00
36	5	2914	G	C8-N9-C4	-6.84	103.66	106.40
36	5	3045	G	N7-C8-N9	6.84	116.52	113.10
36	5	3099	C	N1-C2-O2	-6.84	114.79	118.90
36	5	3218	A	N1-C2-N3	6.84	132.72	129.30
36	1	1001	G	O5'-P-OP2	6.84	118.91	110.70
36	1	1547	G	N3-C4-C5	-6.84	125.18	128.60
1	6	27	U	O5'-P-OP2	-6.84	99.54	105.70
36	5	3174	A	C5-N7-C8	-6.84	100.48	103.90
1	2	1000	C	C2-N1-C1'	6.84	126.33	118.80
1	2	1757	G	N1-C6-O6	-6.84	115.80	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1431	G	C8-N9-C4	6.84	109.14	106.40
36	1	1446	A	N1-C2-N3	6.84	132.72	129.30
36	1	1534	A	C6-C5-N7	-6.84	127.51	132.30
36	5	223	U	N1-C2-N3	6.84	119.00	114.90
36	5	1340	G	N7-C8-N9	6.84	116.52	113.10
1	2	307	G	C5-C6-N1	6.84	114.92	111.50
36	1	50	U	N3-C2-O2	-6.84	117.41	122.20
36	1	1366	A	C6-C5-N7	-6.84	127.51	132.30
36	1	2669	G	N3-C4-N9	-6.84	121.90	126.00
36	1	2697	A	O5'-P-OP1	-6.84	99.54	105.70
36	5	192	C	N3-C2-O2	-6.84	117.11	121.90
36	5	845	G	N3-C2-N2	6.84	124.69	119.90
36	5	1900	A	C8-N9-C4	-6.84	103.06	105.80
36	5	2727	A	C5-N7-C8	6.84	107.32	103.90
36	5	3367	C	C2-N1-C1'	-6.84	111.28	118.80
36	5	3388	C	C6-N1-C2	6.84	123.04	120.30
1	2	1426	C	C4-C5-C6	-6.84	113.98	117.40
36	1	1168	U	O5'-P-OP2	6.84	118.91	110.70
1	6	1539	G	C8-N9-C1'	-6.84	118.11	127.00
1	6	1644	C	C4-C5-C6	6.84	120.82	117.40
36	5	1402	C	O5'-P-OP1	-6.84	99.55	105.70
36	5	2420	C	O5'-P-OP1	-6.84	99.55	105.70
1	2	29	U	C5-C6-N1	-6.84	119.28	122.70
36	1	335	G	N7-C8-N9	6.84	116.52	113.10
36	1	385	A	N9-C4-C5	6.84	108.53	105.80
36	1	688	G	C5-C6-O6	-6.84	124.50	128.60
36	1	878	G	C4-C5-N7	-6.84	108.07	110.80
36	1	1125	U	N1-C2-N3	6.84	119.00	114.90
37	3	36	C	N1-C2-O2	6.84	123.00	118.90
37	3	50	U	C2-N1-C1'	6.84	125.90	117.70
1	6	1527	C	N1-C2-O2	-6.84	114.80	118.90
36	5	802	C	C6-N1-C2	6.84	123.03	120.30
36	5	920	A	C5-N7-C8	-6.84	100.48	103.90
36	5	1784	G	N3-C4-N9	6.84	130.10	126.00
36	5	2256	A	C8-N9-C4	6.84	108.53	105.80
36	5	3054	U	C2-N1-C1'	-6.84	109.50	117.70
1	2	1274	C	N1-C2-O2	6.83	123.00	118.90
1	2	1481	C	C6-N1-C2	-6.83	117.57	120.30
1	2	1610	G	N3-C4-C5	-6.83	125.18	128.60
36	1	1046	A	C4-C5-N7	6.83	114.12	110.70
38	4	12	A	C5-C6-N6	-6.83	118.23	123.70
1	2	1270	G	C4-N9-C1'	6.83	135.38	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1537	C	C5-C4-N4	-6.83	115.42	120.20
36	1	184	U	C5-C6-N1	-6.83	119.28	122.70
36	1	2951	G	C5-C6-O6	6.83	132.70	128.60
36	1	3305	A	OP2-P-O3'	6.83	120.23	105.20
36	5	201	A	C8-N9-C4	6.83	108.53	105.80
36	5	1333	C	C6-N1-C2	-6.83	117.57	120.30
36	1	1084	A	O5'-P-OP1	-6.83	99.55	105.70
36	1	2861	U	N3-C2-O2	-6.83	117.42	122.20
36	1	3112	G	C8-N9-C4	6.83	109.13	106.40
1	6	371	G	C4-N9-C1'	6.83	135.38	126.50
1	6	1111	G	C8-N9-C4	-6.83	103.67	106.40
1	6	1111	G	N3-C4-C5	-6.83	125.18	128.60
36	5	969	C	C4-C5-C6	6.83	120.82	117.40
36	5	3038	U	N3-C4-C5	6.83	118.70	114.60
36	5	3171	U	N3-C4-O4	-6.83	114.62	119.40
38	8	8	C	C5-C6-N1	6.83	124.42	121.00
36	1	3081	C	N3-C2-O2	-6.83	117.12	121.90
37	3	7	G	C5-C6-N1	6.83	114.92	111.50
1	6	1000	C	C4-C5-C6	6.83	120.81	117.40
36	5	501	A	N1-C6-N6	-6.83	114.50	118.60
1	2	334	G	C8-N9-C1'	6.83	135.88	127.00
36	1	911	C	N3-C4-C5	6.83	124.63	121.90
36	1	1293	U	N3-C4-C5	6.83	118.70	114.60
36	1	1365	G	C4-C5-N7	6.83	113.53	110.80
36	1	2289	U	C2-N1-C1'	6.83	125.89	117.70
36	1	3052	G	O5'-P-OP2	6.83	118.89	110.70
38	4	3	A	C6-N1-C2	-6.83	114.50	118.60
38	4	18	U	N3-C4-C5	-6.83	110.50	114.60
1	6	338	C	C5-C6-N1	6.83	124.41	121.00
36	5	810	A	N1-C6-N6	6.83	122.70	118.60
36	5	857	G	C6-C5-N7	-6.83	126.30	130.40
36	5	3115	C	N1-C2-N3	6.83	123.98	119.20
1	2	600	U	C6-N1-C2	-6.83	116.90	121.00
1	6	1490	C	C5-C6-N1	6.83	124.41	121.00
36	5	3111	U	C2-N1-C1'	6.83	125.89	117.70
36	1	908	G	N3-C4-N9	6.82	130.09	126.00
36	1	2238	G	C4-C5-C6	-6.82	114.71	118.80
36	1	2419	A	C4-C5-N7	6.82	114.11	110.70
36	1	2738	A	C5-N7-C8	-6.82	100.49	103.90
1	6	1117	U	N3-C2-O2	6.82	126.98	122.20
36	5	648	C	OP1-P-O3'	6.82	120.21	105.20
37	7	102	A	C8-N9-C4	6.82	108.53	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1116	G	N3-C4-N9	6.82	130.09	126.00
38	4	57	C	OP2-P-O3'	6.82	120.21	105.20
36	5	2845	A	N7-C8-N9	6.82	117.21	113.80
1	2	994	G	C4-C5-N7	-6.82	108.07	110.80
36	1	1049	C	C5-C4-N4	-6.82	115.42	120.20
36	1	1472	U	C6-N1-C2	6.82	125.09	121.00
36	1	2863	G	N1-C2-N2	-6.82	110.06	116.20
36	1	2930	A	C5-C6-N1	6.82	121.11	117.70
1	6	385	A	C5-C6-N6	6.82	129.16	123.70
1	6	402	C	OP1-P-OP2	-6.82	109.37	119.60
1	6	1700	C	C6-N1-C1'	-6.82	112.61	120.80
36	5	1006	A	N1-C2-N3	6.82	132.71	129.30
36	5	3036	G	C5-C6-O6	6.82	132.69	128.60
36	5	3390	G	O5'-P-OP2	6.82	118.88	110.70
36	5	227	G	C5-N7-C8	6.82	107.71	104.30
36	5	1376	C	C2-N1-C1'	6.82	126.30	118.80
36	5	2161	G	N3-C2-N2	-6.82	115.13	119.90
36	5	2720	G	N3-C4-N9	6.82	130.09	126.00
36	5	3026	G	C4-C5-N7	6.82	113.53	110.80
36	1	14	U	C6-N1-C2	-6.82	116.91	121.00
36	1	392	G	N7-C8-N9	6.82	116.51	113.10
36	1	644	G	N1-C2-N2	-6.82	110.06	116.20
36	1	1146	C	C6-N1-C2	6.82	123.03	120.30
36	1	1362	G	N3-C4-C5	6.82	132.01	128.60
36	1	2122	G	C8-N9-C1'	6.82	135.86	127.00
36	1	2414	G	N3-C4-C5	6.82	132.01	128.60
1	6	811	A	N1-C6-N6	6.82	122.69	118.60
1	6	1768	G	N7-C8-N9	6.82	116.51	113.10
36	5	192	C	O5'-P-OP2	-6.82	99.56	105.70
36	5	400	G	C4-C5-N7	6.82	113.53	110.80
36	5	531	G	N3-C4-N9	6.82	130.09	126.00
36	5	998	A	N9-C4-C5	6.82	108.53	105.80
36	5	1348	U	N1-C2-O2	6.82	127.57	122.80
36	5	1551	C	N3-C4-C5	-6.82	119.17	121.90
36	5	2182	A	O5'-P-OP1	-6.82	99.56	105.70
36	5	2922	G	C5-N7-C8	-6.82	100.89	104.30
36	1	1466	G	C5-C6-O6	-6.82	124.51	128.60
36	1	2658	G	N3-C4-N9	6.82	130.09	126.00
36	1	3087	A	N1-C2-N3	6.82	132.71	129.30
36	1	3204	C	N1-C2-O2	6.82	122.99	118.90
1	6	1090	C	N3-C4-C5	6.82	124.63	121.90
36	5	1439	U	N3-C2-O2	6.82	126.97	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2178	A	C5-C6-N1	6.82	121.11	117.70
36	5	3024	A	O5'-P-OP2	6.82	118.88	110.70
36	1	1442	U	O5'-P-OP1	-6.81	99.57	105.70
36	1	2167	A	N1-C6-N6	6.81	122.69	118.60
36	1	2830	G	C4-N9-C1'	-6.81	117.64	126.50
1	6	751	G	C8-N9-C4	6.81	109.13	106.40
36	5	1554	U	N1-C2-N3	-6.81	110.81	114.90
36	5	1917	C	N3-C4-C5	6.81	124.63	121.90
1	2	17	C	C2-N3-C4	-6.81	116.49	119.90
36	1	583	G	C5-N7-C8	6.81	107.71	104.30
36	1	1713	G	C4-N9-C1'	-6.81	117.64	126.50
36	1	2664	C	N3-C4-C5	6.81	124.62	121.90
1	6	1622	G	N9-C4-C5	-6.81	102.67	105.40
36	5	2306	C	N1-C2-O2	6.81	122.99	118.90
36	5	3136	G	C5-N7-C8	-6.81	100.89	104.30
36	1	798	G	C5-C6-O6	-6.81	124.51	128.60
36	1	2303	A	N9-C4-C5	6.81	108.52	105.80
36	1	2629	U	C4-C5-C6	6.81	123.79	119.70
1	6	396	G	C5-C6-O6	6.81	132.69	128.60
36	5	3046	A	N9-C4-C5	6.81	108.52	105.80
36	1	1122	U	C6-N1-C2	-6.81	116.91	121.00
36	1	2918	G	C2-N3-C4	6.81	115.31	111.90
1	6	1038	U	C5-C4-O4	-6.81	121.81	125.90
36	5	1293	U	N1-C2-O2	-6.81	118.03	122.80
36	5	1344	G	N3-C4-N9	-6.81	121.91	126.00
36	1	213	A	C5-N7-C8	-6.81	100.50	103.90
36	1	273	A	C8-N9-C4	6.81	108.52	105.80
36	1	305	U	C2-N3-C4	-6.81	122.92	127.00
36	1	392	G	C8-N9-C4	-6.81	103.68	106.40
1	6	1271	G	N1-C6-O6	6.81	123.98	119.90
36	5	94	G	C2-N3-C4	-6.81	108.50	111.90
36	5	978	G	N1-C2-N2	6.81	122.33	116.20
36	5	1220	U	C2-N3-C4	-6.81	122.92	127.00
36	5	1293	U	C2-N3-C4	-6.81	122.92	127.00
36	5	2325	G	N1-C6-O6	6.81	123.98	119.90
36	5	2573	G	C5-C6-O6	-6.81	124.52	128.60
36	1	67	A	C2-N3-C4	6.81	114.00	110.60
36	1	375	A	C4-C5-N7	6.81	114.10	110.70
36	5	2316	G	N1-C2-N2	-6.81	110.08	116.20
36	1	344	A	OP2-P-O3'	6.80	120.17	105.20
36	1	865	U	C2-N1-C1'	-6.80	109.53	117.70
36	1	2669	G	C4-C5-N7	-6.80	108.08	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2967	A	C5-C6-N6	-6.80	118.26	123.70
36	1	2983	C	C4-C5-C6	6.80	120.80	117.40
37	3	93	C	C2-N3-C4	-6.80	116.50	119.90
38	4	24	G	C4-N9-C1'	6.80	135.35	126.50
38	4	55	U	C6-N1-C2	-6.80	116.92	121.00
36	5	835	G	O4'-C1'-N9	6.80	113.64	108.20
36	5	1604	G	C6-N1-C2	-6.80	121.02	125.10
36	5	2608	G	N1-C6-O6	6.80	123.98	119.90
36	1	1408	G	N3-C4-N9	6.80	130.08	126.00
1	2	1423	U	N3-C2-O2	-6.80	117.44	122.20
36	1	1045	C	N1-C2-O2	-6.80	114.82	118.90
36	1	1551	C	N1-C2-O2	-6.80	114.82	118.90
36	1	3326	G	C5-N7-C8	6.80	107.70	104.30
1	6	621	A	N9-C4-C5	6.80	108.52	105.80
1	6	1679	G	N3-C4-C5	-6.80	125.20	128.60
36	5	34	A	C8-N9-C4	-6.80	103.08	105.80
36	5	1847	A	C6-N1-C2	6.80	122.68	118.60
36	5	2129	U	C6-N1-C2	-6.80	116.92	121.00
36	1	983	A	O4'-C1'-N9	-6.80	102.76	108.20
36	1	1483	G	C2-N3-C4	6.80	115.30	111.90
36	1	1507	G	C4-C5-N7	6.80	113.52	110.80
36	1	1894	U	C2-N1-C1'	-6.80	109.54	117.70
36	1	2199	G	N7-C8-N9	6.80	116.50	113.10
36	1	2773	C	C6-N1-C2	6.80	123.02	120.30
1	6	1093	A	C5-C6-N1	6.80	121.10	117.70
36	5	608	A	N3-C4-N9	6.80	132.84	127.40
36	5	1473	G	N1-C2-N2	-6.80	110.08	116.20
37	7	113	C	O5'-P-OP1	-6.80	99.58	105.70
1	2	1007	C	C6-N1-C2	6.80	123.02	120.30
36	1	939	U	C5'-C4'-O4'	6.80	117.26	109.10
36	1	1522	U	N1-C2-O2	6.80	127.56	122.80
38	4	40	A	N7-C8-N9	6.80	117.20	113.80
36	5	428	A	OP2-P-O3'	6.80	120.16	105.20
36	5	531	G	C6-C5-N7	-6.80	126.32	130.40
36	5	2334	U	C2-N1-C1'	6.80	125.86	117.70
36	5	2833	A	N1-C2-N3	6.80	132.70	129.30
36	1	1523	U	N1-C2-O2	6.80	127.56	122.80
36	1	2777	G	N9-C4-C5	6.80	108.12	105.40
36	5	1155	C	OP1-P-OP2	6.80	129.79	119.60
36	5	1158	A	N7-C8-N9	-6.80	110.40	113.80
36	5	3164	C	C5-C4-N4	-6.80	115.44	120.20
36	1	1373	A	OP1-P-O3'	-6.79	90.25	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1505	C	C5-C6-N1	-6.79	117.60	121.00
36	5	2397	A	N1-C2-N3	6.79	132.70	129.30
38	8	66	A	C5-C6-N1	-6.79	114.30	117.70
36	1	197	G	C4-C5-N7	6.79	113.52	110.80
36	1	353	G	N1-C6-O6	-6.79	115.82	119.90
1	6	1006	C	C2-N3-C4	-6.79	116.50	119.90
36	5	2341	A	C6-N1-C2	-6.79	114.52	118.60
36	5	2754	G	N3-C4-N9	6.79	130.08	126.00
36	5	2895	G	C4-C5-C6	6.79	122.88	118.80
36	5	2935	U	C4-C5-C6	-6.79	115.62	119.70
36	5	3045	G	C2-N3-C4	-6.79	108.50	111.90
1	2	377	G	N1-C2-N2	6.79	122.31	116.20
36	1	349	A	C8-N9-C4	-6.79	103.08	105.80
36	1	2622	C	C2-N1-C1'	6.79	126.27	118.80
36	1	3090	U	O5'-P-OP2	-6.79	99.59	105.70
38	4	63	G	O5'-P-OP2	-6.79	99.59	105.70
1	6	1206	U	N3-C4-O4	6.79	124.15	119.40
36	5	129	U	C6-N1-C2	-6.79	116.93	121.00
36	5	425	G	N1-C2-N3	6.79	127.97	123.90
36	5	1296	C	N1-C2-N3	6.79	123.95	119.20
38	8	15	G	C5-N7-C8	6.79	107.70	104.30
36	1	2871	G	C4-C5-C6	-6.79	114.73	118.80
36	1	2922	G	C5-C6-N1	6.79	114.89	111.50
36	1	3271	G	O5'-P-OP1	6.79	118.85	110.70
36	5	1142	G	O5'-P-OP2	-6.79	99.59	105.70
36	5	1664	G	OP2-P-O3'	6.79	120.14	105.20
1	2	157	A	C8-N9-C4	6.79	108.52	105.80
36	1	696	C	O4'-C1'-N1	6.79	113.63	108.20
36	1	2828	G	C5-C6-O6	6.79	132.67	128.60
36	1	3083	G	O5'-P-OP2	-6.79	99.59	105.70
1	6	1086	A	C2-N3-C4	-6.79	107.21	110.60
1	6	1503	A	O5'-P-OP1	-6.79	99.59	105.70
36	5	315	C	C6-N1-C2	6.79	123.02	120.30
36	5	1126	G	C4-C5-C6	6.79	122.87	118.80
36	1	940	G	C5-C6-N1	6.79	114.89	111.50
38	4	10	A	O5'-P-OP2	-6.79	99.59	105.70
40	L3	244	ARG	NE-CZ-NH2	-6.79	116.91	120.30
36	5	2895	G	N3-C4-N9	6.79	130.07	126.00
36	1	366	A	C4-C5-C6	6.79	120.39	117.00
36	1	1052	U	N3-C4-O4	-6.79	114.65	119.40
36	1	2651	G	C5-C6-O6	-6.79	124.53	128.60
1	6	759	U	N3-C2-O2	-6.79	117.45	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1668	G	N3-C2-N2	-6.79	115.15	119.90
36	5	1367	G	O5'-P-OP1	-6.79	99.59	105.70
36	5	1468	A	C2-N3-C4	-6.79	107.21	110.60
36	5	2763	U	OP2-P-O3'	6.79	120.13	105.20
1	2	582	U	N3-C2-O2	-6.78	117.45	122.20
36	1	1594	A	C5-C6-N6	6.78	129.13	123.70
1	6	396	G	N1-C6-O6	-6.78	115.83	119.90
36	5	608	A	C6-C5-N7	-6.78	127.55	132.30
36	5	1669	C	C6-N1-C2	-6.78	117.59	120.30
36	5	2188	A	C8-N9-C4	6.78	108.51	105.80
37	7	99	G	N1-C6-O6	-6.78	115.83	119.90
38	8	28	C	N3-C4-N4	6.78	122.75	118.00
36	1	697	A	C4-C5-C6	-6.78	113.61	117.00
36	1	813	G	C5-N7-C8	-6.78	100.91	104.30
36	1	3104	U	O5'-P-OP1	-6.78	99.60	105.70
1	6	1528	U	C5-C6-N1	-6.78	119.31	122.70
36	5	857	G	N9-C4-C5	6.78	108.11	105.40
36	5	1060	U	N3-C4-C5	6.78	118.67	114.60
36	5	1498	A	C8-N9-C4	-6.78	103.09	105.80
36	5	2752	U	N3-C4-C5	6.78	118.67	114.60
1	2	1658	G	O5'-P-OP1	-6.78	99.60	105.70
36	1	50	U	C4-C5-C6	6.78	123.77	119.70
36	1	121	A	C8-N9-C4	6.78	108.51	105.80
36	1	637	C	N3-C2-O2	-6.78	117.15	121.90
1	6	555	A	C8-N9-C4	-6.78	103.09	105.80
1	6	1580	C	C2-N1-C1'	-6.78	111.34	118.80
36	5	1914	G	N1-C6-O6	-6.78	115.83	119.90
36	5	2285	C	C4-C5-C6	6.78	120.79	117.40
36	5	3246	G	OP1-P-OP2	-6.78	109.43	119.60
36	5	3312	U	C6-N1-C2	6.78	125.07	121.00
36	1	2107	A	N1-C2-N3	6.78	132.69	129.30
36	1	2156	C	C2-N3-C4	-6.78	116.51	119.90
36	1	2738	A	C5-C6-N1	6.78	121.09	117.70
37	3	7	G	C6-C5-N7	6.78	134.47	130.40
36	5	2890	A	N9-C4-C5	6.78	108.51	105.80
1	2	1212	G	C4-C5-C6	6.78	122.87	118.80
36	1	344	A	O5'-P-OP1	-6.78	99.60	105.70
36	1	714	G	C4-C5-N7	6.78	113.51	110.80
36	1	2102	U	C6-N1-C2	6.78	125.07	121.00
36	1	2121	G	N3-C4-N9	-6.78	121.93	126.00
36	1	3309	G	N9-C1'-C2'	-6.78	104.55	112.00
1	6	1639	C	C4-C5-C6	-6.78	114.01	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1670	G	N3-C4-C5	-6.78	125.21	128.60
1	6	1747	G	C2-N3-C4	-6.78	108.51	111.90
36	5	62	A	C5-N7-C8	-6.78	100.51	103.90
36	5	187	A	N9-C4-C5	6.78	108.51	105.80
36	5	517	G	C5-C6-O6	-6.78	124.53	128.60
36	5	787	G	C5-N7-C8	6.78	107.69	104.30
36	5	1150	A	N7-C8-N9	6.78	117.19	113.80
36	5	1316	C	C5-C6-N1	-6.78	117.61	121.00
1	2	1412	G	N3-C4-N9	-6.78	121.93	126.00
36	1	222	A	OP2-P-O3'	6.78	120.10	105.20
36	1	2199	G	C8-N9-C4	-6.78	103.69	106.40
1	6	576	G	C5-C6-O6	-6.78	124.53	128.60
36	5	298	U	C5-C6-N1	6.78	126.09	122.70
36	5	833	G	O5'-P-OP2	-6.78	99.60	105.70
36	5	2993	G	C6-C5-N7	-6.78	126.33	130.40
36	1	691	A	N3-C4-C5	6.77	131.54	126.80
36	1	2557	A	N1-C6-N6	-6.77	114.53	118.60
36	1	2894	C	O5'-P-OP2	-6.77	99.60	105.70
1	6	1696	G	P-O3'-C3'	6.77	127.83	119.70
36	5	3275	U	C5-C6-N1	6.77	126.09	122.70
1	2	390	G	N3-C4-N9	-6.77	121.94	126.00
36	1	220	G	C4-C5-C6	6.77	122.86	118.80
37	3	38	U	O5'-P-OP2	-6.77	99.60	105.70
1	6	996	U	N3-C4-O4	6.77	124.14	119.40
36	5	860	G	N9-C4-C5	-6.77	102.69	105.40
36	5	891	G	N9-C4-C5	6.77	108.11	105.40
36	5	1525	G	C4-N9-C1'	6.77	135.31	126.50
36	5	1870	C	N1-C2-O2	-6.77	114.84	118.90
36	5	2796	G	C8-N9-C4	6.77	109.11	106.40
36	5	2957	G	N9-C1'-C2'	-6.77	104.55	112.00
36	5	2980	U	C5-C4-O4	6.77	129.96	125.90
38	8	17	A	N9-C4-C5	-6.77	103.09	105.80
38	8	48	A	N1-C2-N3	-6.77	125.91	129.30
1	6	315	A	C5-N7-C8	6.77	107.29	103.90
1	6	1418	G	C2-N3-C4	-6.77	108.51	111.90
36	5	1905	G	C5-N7-C8	6.77	107.69	104.30
1	2	568	G	N1-C6-O6	-6.77	115.84	119.90
36	1	689	U	C5-C4-O4	-6.77	121.84	125.90
36	1	1878	G	N3-C2-N2	-6.77	115.16	119.90
36	1	2122	G	C5-C6-N1	6.77	114.89	111.50
1	6	466	U	C6-N1-C2	-6.77	116.94	121.00
36	5	744	A	C4-C5-N7	6.77	114.08	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	860	G	N1-C6-O6	6.77	123.96	119.90
36	5	2522	G	N1-C6-O6	6.77	123.96	119.90
36	1	1440	G	OP2-P-O3'	6.77	120.09	105.20
36	1	3285	C	C6-N1-C2	6.77	123.01	120.30
36	1	3306	U	C2-N1-C1'	6.77	125.82	117.70
1	6	1393	C	C6-N1-C2	-6.77	117.59	120.30
36	5	1122	U	N1-C2-N3	6.77	118.96	114.90
36	5	1282	G	N3-C4-C5	6.77	131.98	128.60
36	5	2132	C	C6-N1-C2	-6.77	117.59	120.30
36	5	2824	G	N3-C2-N2	6.77	124.64	119.90
36	1	683	U	C5-C6-N1	-6.77	119.32	122.70
36	1	2956	A	N1-C6-N6	6.77	122.66	118.60
36	1	3184	A	C8-N9-C4	-6.77	103.09	105.80
1	6	506	A	C8-N9-C4	-6.77	103.09	105.80
1	6	1087	A	N1-C6-N6	-6.77	114.54	118.60
36	5	1461	A	N1-C6-N6	-6.77	114.54	118.60
36	5	1481	A	C4-C5-C6	6.77	120.38	117.00
36	5	2584	G	OP2-P-O3'	6.77	120.08	105.20
37	7	102	A	C5-N7-C8	-6.77	100.52	103.90
36	1	802	C	N3-C4-N4	-6.76	113.27	118.00
36	1	1177	G	C6-C5-N7	-6.76	126.34	130.40
36	1	3263	G	N3-C4-C5	-6.76	125.22	128.60
36	5	1236	G	N3-C4-N9	6.76	130.06	126.00
36	5	1861	G	N1-C2-N2	-6.76	110.11	116.20
36	5	2872	A	N1-C6-N6	-6.76	114.54	118.60
37	7	15	C	N3-C2-O2	-6.76	117.17	121.90
36	1	96	G	N3-C4-C5	6.76	131.98	128.60
36	5	567	G	C5-C6-N1	-6.76	108.12	111.50
36	5	1149	G	C4-N9-C1'	6.76	135.29	126.50
36	5	1536	G	C2-N3-C4	-6.76	108.52	111.90
36	5	2371	G	N1-C6-O6	6.76	123.96	119.90
36	5	3271	G	N3-C4-N9	6.76	130.06	126.00
36	1	432	G	C2-N3-C4	-6.76	108.52	111.90
36	1	1114	U	OP1-P-O3'	6.76	120.07	105.20
36	1	1151	U	OP1-P-OP2	-6.76	109.46	119.60
36	1	3318	G	C4-C5-N7	6.76	113.50	110.80
1	6	543	C	N3-C4-N4	-6.76	113.27	118.00
1	6	1156	C	C6-N1-C2	-6.76	117.59	120.30
1	6	1470	C	C2-N1-C1'	6.76	126.24	118.80
36	5	155	G	C5-C6-N1	6.76	114.88	111.50
36	5	1490	A	N9-C4-C5	6.76	108.50	105.80
36	5	2341	A	C8-N9-C4	6.76	108.50	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2610	G	C8-N9-C4	-6.76	103.69	106.40
36	5	3075	G	C5-C6-N1	-6.76	108.12	111.50
36	1	1527	C	C5-C6-N1	6.76	124.38	121.00
36	1	2333	C	N3-C4-N4	-6.76	113.27	118.00
36	1	2730	G	N1-C6-O6	6.76	123.96	119.90
1	6	420	A	N7-C8-N9	6.76	117.18	113.80
1	6	1272	U	C6-N1-C2	-6.76	116.94	121.00
36	5	38	U	C6-N1-C2	6.76	125.06	121.00
36	5	1399	A	N3-C4-C5	6.76	131.53	126.80
36	5	1868	G	C4-C5-N7	6.76	113.50	110.80
36	5	2873	U	C4-C5-C6	6.76	123.76	119.70
1	2	1737	G	C5-C6-N1	-6.76	108.12	111.50
36	1	676	G	C8-N9-C4	-6.76	103.70	106.40
36	1	2967	A	N1-C6-N6	6.76	122.66	118.60
36	5	3194	C	N3-C4-N4	6.76	122.73	118.00
1	2	1631	A	N3-C4-N9	-6.76	121.99	127.40
36	1	616	G	N9-C4-C5	-6.76	102.70	105.40
36	1	660	A	C5-C6-N6	6.76	129.11	123.70
36	1	664	U	N3-C4-C5	-6.76	110.55	114.60
36	1	2888	U	O5'-P-OP1	-6.76	99.62	105.70
1	6	1650	U	N3-C4-C5	-6.76	110.55	114.60
12	c0	83	PRO	N-CA-CB	6.76	111.41	103.30
36	5	209	A	N1-C6-N6	6.76	122.65	118.60
36	5	1366	A	C5-C6-N6	-6.76	118.29	123.70
36	5	1845	G	OP1-P-O3'	6.76	120.06	105.20
36	1	691	A	C6-C5-N7	-6.75	127.57	132.30
36	1	2411	U	C2-N3-C4	-6.75	122.95	127.00
36	1	3316	A	N3-C4-C5	6.75	131.53	126.80
36	5	97	U	N3-C4-O4	6.75	124.13	119.40
36	5	808	A	N9-C4-C5	6.75	108.50	105.80
36	5	2288	G	C4-N9-C1'	6.75	135.28	126.50
36	1	668	G	OP1-P-OP2	6.75	129.73	119.60
36	1	1858	A	N3-C4-N9	6.75	132.80	127.40
36	1	2847	A	N3-C4-C5	6.75	131.53	126.80
36	1	3305	A	N3-C4-C5	-6.75	122.07	126.80
36	5	713	U	C2-N3-C4	-6.75	122.95	127.00
36	5	3092	C	N3-C4-N4	6.75	122.73	118.00
36	1	2305	G	C2-N3-C4	6.75	115.28	111.90
38	4	46	G	C6-C5-N7	-6.75	126.35	130.40
1	6	1100	G	C5-C6-O6	-6.75	124.55	128.60
36	5	306	A	O5'-P-OP1	6.75	118.80	110.70
36	5	421	G	N3-C4-N9	6.75	130.05	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	560	G	C4-C5-N7	-6.75	108.10	110.80
36	5	803	C	N3-C4-C5	6.75	124.60	121.90
36	5	832	G	C5-N7-C8	6.75	107.68	104.30
36	5	1162	U	N1-C2-N3	6.75	118.95	114.90
1	6	316	A	C5-N7-C8	-6.75	100.53	103.90
1	6	1409	G	N3-C4-N9	6.75	130.05	126.00
1	6	1546	G	C4-N9-C1'	6.75	135.27	126.50
36	5	52	A	C2-N3-C4	-6.75	107.22	110.60
36	5	2421	U	C5-C6-N1	-6.75	119.33	122.70
36	1	3122	A	C5-N7-C8	-6.75	100.53	103.90
1	6	1368	G	C4-C5-N7	6.75	113.50	110.80
36	5	897	U	N1-C2-O2	-6.75	118.08	122.80
36	5	3329	U	N1-C2-N3	6.75	118.95	114.90
36	1	1393	A	C4-C5-C6	6.75	120.37	117.00
36	1	2241	U	C4-C5-C6	6.75	123.75	119.70
1	6	635	A	N1-C6-N6	-6.75	114.55	118.60
36	5	2796	G	N9-C4-C5	-6.75	102.70	105.40
1	2	1418	G	C4-C5-N7	6.74	113.50	110.80
36	1	1920	U	C4-C5-C6	6.74	123.75	119.70
36	1	2413	A	C5-N7-C8	-6.74	100.53	103.90
1	6	312	A	C8-N9-C4	-6.74	103.10	105.80
36	5	155	G	N9-C4-C5	-6.74	102.70	105.40
36	5	956	U	N1-C2-O2	-6.74	118.08	122.80
36	5	1868	G	C6-C5-N7	-6.74	126.35	130.40
36	5	2620	G	C4-C5-N7	-6.74	108.10	110.80
36	5	2940	A	C6-N1-C2	-6.74	114.55	118.60
1	2	1486	G	N3-C4-C5	-6.74	125.23	128.60
36	1	54	C	C6-N1-C2	6.74	123.00	120.30
36	1	2395	G	N7-C8-N9	6.74	116.47	113.10
37	3	78	U	N3-C4-O4	6.74	124.12	119.40
36	1	649	A	N1-C6-N6	-6.74	114.56	118.60
36	1	2303	A	C8-N9-C4	-6.74	103.10	105.80
36	1	2917	G	N7-C8-N9	-6.74	109.73	113.10
36	1	3208	G	N3-C4-C5	-6.74	125.23	128.60
36	5	91	G	C5-C6-O6	-6.74	124.56	128.60
36	5	1422	G	N7-C8-N9	6.74	116.47	113.10
36	5	2658	G	O5'-P-OP2	-6.74	99.63	105.70
1	2	1011	G	C8-N9-C4	-6.74	103.70	106.40
1	2	1195	C	C2-N1-C1'	6.74	126.21	118.80
36	1	334	A	C2-N3-C4	6.74	113.97	110.60
36	1	2199	G	C5-C6-N1	6.74	114.87	111.50
36	1	2816	G	N3-C2-N2	6.74	124.62	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	761	G	C5-C6-O6	6.74	132.64	128.60
1	6	960	U	N1-C2-O2	6.74	127.52	122.80
36	5	866	A	N1-C6-N6	6.74	122.64	118.60
36	5	1051	U	O5'-P-OP1	-6.74	99.64	105.70
36	5	2358	A	N7-C8-N9	-6.74	110.43	113.80
36	5	2389	C	C5-C4-N4	-6.74	115.48	120.20
36	1	52	A	C5-N7-C8	6.74	107.27	103.90
36	1	1929	G	N9-C4-C5	-6.74	102.71	105.40
36	1	1951	C	N1-C2-O2	6.74	122.94	118.90
36	1	2193	U	C2-N1-C1'	-6.74	109.62	117.70
37	3	7	G	N9-C4-C5	6.74	108.09	105.40
1	6	11	A	N1-C6-N6	-6.74	114.56	118.60
1	6	357	G	N1-C6-O6	6.74	123.94	119.90
1	6	630	A	C4-C5-C6	6.74	120.37	117.00
1	6	1111	G	N1-C2-N2	-6.74	110.14	116.20
36	5	266	A	N1-C6-N6	6.74	122.64	118.60
36	5	1400	G	N3-C4-N9	6.74	130.04	126.00
36	5	1546	A	N9-C4-C5	6.74	108.50	105.80
36	5	2420	C	OP1-P-O3'	6.74	120.02	105.20
36	5	2942	C	C6-N1-C2	-6.74	117.61	120.30
36	5	3091	A	C5-N7-C8	-6.74	100.53	103.90
37	7	111	U	C4-C5-C6	6.74	123.74	119.70
36	1	1190	A	C8-N9-C4	-6.73	103.11	105.80
36	1	3137	C	C5-C6-N1	-6.73	117.63	121.00
1	6	800	U	N1-C2-O2	-6.73	118.09	122.80
36	5	2339	C	C5-C4-N4	-6.73	115.49	120.20
1	2	1140	G	N1-C6-O6	6.73	123.94	119.90
36	1	3053	G	C5-C6-N1	-6.73	108.13	111.50
1	6	383	G	C4-C5-N7	6.73	113.49	110.80
1	6	1477	G	C5-C6-N1	6.73	114.87	111.50
36	5	1139	G	C6-C5-N7	6.73	134.44	130.40
36	5	1793	C	C2-N1-C1'	6.73	126.20	118.80
36	5	2243	A	C4-C5-N7	-6.73	107.33	110.70
36	5	2623	G	N7-C8-N9	-6.73	109.73	113.10
37	7	121	U	C2-N1-C1'	6.73	125.78	117.70
38	8	111	A	N9-C4-C5	-6.73	103.11	105.80
1	2	1728	A	N1-C6-N6	-6.73	114.56	118.60
36	1	352	A	O4'-C1'-N9	6.73	113.58	108.20
36	1	787	G	C4-N9-C1'	6.73	135.25	126.50
1	6	1535	U	OP2-P-O3'	6.73	120.01	105.20
36	5	424	G	O5'-P-OP2	-6.73	99.64	105.70
36	5	2335	G	C2-N3-C4	6.73	115.27	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	76	A	C5-N7-C8	6.73	107.27	103.90
36	1	642	U	N3-C4-C5	-6.73	110.56	114.60
36	1	1049	C	C2-N3-C4	-6.73	116.53	119.90
1	6	597	G	C5-N7-C8	-6.73	100.94	104.30
36	5	2159	U	N1-C2-O2	6.73	127.51	122.80
36	5	2282	U	O5'-P-OP1	-6.73	99.64	105.70
1	2	261	U	N1-C2-O2	6.73	127.51	122.80
36	1	651	G	C4-C5-C6	6.73	122.84	118.80
36	1	2402	A	C6-N1-C2	-6.73	114.56	118.60
36	1	2627	C	OP1-P-OP2	-6.73	109.51	119.60
36	1	3251	U	C5-C6-N1	-6.73	119.34	122.70
36	1	3318	G	C8-N9-C1'	-6.73	118.25	127.00
37	3	52	G	C8-N9-C4	-6.73	103.71	106.40
1	6	209	U	N3-C2-O2	6.73	126.91	122.20
1	6	1774	G	N9-C4-C5	6.73	108.09	105.40
36	5	996	A	OP2-P-O3'	6.73	120.00	105.20
36	5	2168	A	C5-N7-C8	-6.73	100.54	103.90
36	5	2888	U	C5-C6-N1	-6.73	119.34	122.70
1	2	432	G	N1-C6-O6	-6.73	115.86	119.90
36	1	108	A	N1-C6-N6	6.73	122.64	118.60
36	1	329	U	C4-C5-C6	6.73	123.73	119.70
1	6	1651	A	C2-N3-C4	-6.73	107.24	110.60
36	5	2409	G	O5'-P-OP2	-6.73	99.65	105.70
36	1	1594	A	C4-C5-N7	-6.72	107.34	110.70
36	1	2113	A	C5-C6-N6	6.72	129.08	123.70
36	5	877	C	C5-C4-N4	-6.72	115.49	120.20
36	5	1126	G	C6-C5-N7	-6.72	126.36	130.40
36	5	1897	G	N3-C4-N9	6.72	130.03	126.00
36	5	2614	G	N3-C4-N9	6.72	130.03	126.00
36	5	2961	G	C4-N9-C1'	6.72	135.24	126.50
47	m0	182	LEU	CA-CB-CG	-6.72	99.83	115.30
36	1	1167	U	N1-C2-N3	6.72	118.93	114.90
36	1	1930	A	N1-C6-N6	6.72	122.63	118.60
36	1	2937	G	C6-C5-N7	6.72	134.43	130.40
37	3	118	A	N1-C6-N6	-6.72	114.57	118.60
1	6	326	G	C4-N9-C1'	6.72	135.24	126.50
1	6	608	U	C6-N1-C2	-6.72	116.97	121.00
1	6	1145	U	N3-C2-O2	6.72	126.91	122.20
36	5	1500	G	C8-N9-C4	6.72	109.09	106.40
36	5	1548	C	C5-C6-N1	6.72	124.36	121.00
37	7	37	G	N9-C4-C5	-6.72	102.71	105.40
36	1	1307	G	N1-C2-N3	6.72	127.93	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	648	C	OP1-P-OP2	6.72	129.68	119.60
36	1	693	A	C8-N9-C4	-6.72	103.11	105.80
36	1	2190	U	C4-C5-C6	6.72	123.73	119.70
1	6	923	A	N9-C4-C5	6.72	108.49	105.80
1	6	1013	A	N9-C4-C5	6.72	108.49	105.80
36	5	649	A	N9-C4-C5	-6.72	103.11	105.80
36	5	1592	G	C5-N7-C8	6.72	107.66	104.30
36	5	2618	G	O5'-P-OP2	-6.72	99.65	105.70
36	5	2699	G	C5-C6-N1	6.72	114.86	111.50
36	5	3315	G	C6-C5-N7	-6.72	126.37	130.40
1	2	1555	A	C5-C6-N6	6.72	129.07	123.70
36	1	1147	G	O5'-P-OP2	6.72	118.76	110.70
1	6	310	C	O5'-P-OP1	-6.72	99.65	105.70
1	6	1028	C	C5-C6-N1	-6.72	117.64	121.00
1	6	1527	C	C2-N1-C1'	-6.72	111.41	118.80
36	5	1671	C	N3-C4-C5	-6.72	119.21	121.90
37	7	51	A	C8-N9-C4	-6.72	103.11	105.80
1	2	75	U	C2-N1-C1'	6.72	125.76	117.70
1	2	1632	C	N1-C2-O2	-6.72	114.87	118.90
36	1	1097	G	O5'-P-OP2	-6.72	99.66	105.70
36	1	1901	A	C2-N3-C4	6.72	113.96	110.60
36	1	2288	G	N3-C4-N9	6.72	130.03	126.00
36	1	2692	A	N7-C8-N9	6.72	117.16	113.80
36	1	3180	A	N3-C4-N9	-6.72	122.03	127.40
1	6	33	U	N3-C4-O4	6.72	124.10	119.40
1	6	825	U	N3-C2-O2	6.72	126.90	122.20
1	6	1171	A	C8-N9-C4	-6.72	103.11	105.80
36	5	578	A	N1-C2-N3	6.72	132.66	129.30
36	5	2373	A	O5'-P-OP2	6.72	118.76	110.70
36	1	305	U	N3-C4-O4	-6.71	114.70	119.40
36	1	779	G	OP2-P-O3'	6.71	119.97	105.20
36	1	2184	U	N3-C4-O4	6.71	124.10	119.40
36	5	1210	U	C5-C4-O4	6.71	129.93	125.90
36	5	2893	C	N3-C2-O2	6.71	126.60	121.90
36	5	2930	A	OP2-P-O3'	6.71	119.97	105.20
36	1	39	A	C4-C5-C6	-6.71	113.64	117.00
36	1	2344	U	C2-N1-C1'	-6.71	109.64	117.70
36	1	3331	U	O5'-P-OP2	-6.71	99.66	105.70
36	5	428	A	C5-C6-N6	-6.71	118.33	123.70
1	2	1197	C	O5'-P-OP2	-6.71	99.66	105.70
36	1	27	C	N1-C2-N3	6.71	123.90	119.20
36	1	1459	C	N3-C2-O2	-6.71	117.20	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2704	A	N1-C2-N3	6.71	132.66	129.30
1	6	163	G	N1-C2-N3	6.71	127.93	123.90
1	6	1773	C	C6-N1-C2	-6.71	117.62	120.30
36	5	609	G	C5-C6-N1	-6.71	108.14	111.50
36	5	657	A	OP1-P-OP2	-6.71	109.53	119.60
36	5	3215	A	N9-C4-C5	-6.71	103.12	105.80
1	2	1324	G	N1-C2-N2	6.71	122.24	116.20
36	1	677	A	N7-C8-N9	-6.71	110.44	113.80
36	1	3101	G	C5-C6-N1	6.71	114.86	111.50
36	1	1792	C	N3-C2-O2	-6.71	117.20	121.90
36	1	2174	G	C6-C5-N7	-6.71	126.37	130.40
36	1	2393	G	N1-C6-O6	6.71	123.92	119.90
1	6	1476	C	N3-C4-C5	-6.71	119.22	121.90
36	5	1788	C	N1-C2-O2	-6.71	114.87	118.90
36	5	2364	G	C5-C6-O6	-6.71	124.58	128.60
37	7	82	G	C5-C6-O6	-6.71	124.58	128.60
37	7	85	G	C4-C5-N7	6.71	113.48	110.80
36	1	662	U	OP1-P-O3'	-6.71	90.44	105.20
36	1	2119	A	C5-C6-N6	-6.71	118.33	123.70
1	6	917	U	N3-C4-C5	-6.71	110.58	114.60
1	6	1418	G	O5'-P-OP2	6.71	118.75	110.70
36	5	1156	C	C5-C4-N4	-6.71	115.51	120.20
36	5	3032	A	C5-C6-N1	6.71	121.05	117.70
36	1	1124	U	C6-N1-C2	-6.71	116.98	121.00
36	1	2933	A	C5-C6-N6	-6.71	118.34	123.70
1	6	610	G	C4-N9-C1'	6.71	135.22	126.50
36	5	27	C	OP1-P-OP2	6.71	129.66	119.60
36	5	1612	A	C4-C5-C6	6.71	120.35	117.00
36	5	2291	A	C5-N7-C8	-6.71	100.55	103.90
36	1	123	A	N1-C6-N6	-6.70	114.58	118.60
36	1	2368	A	N9-C4-C5	-6.70	103.12	105.80
1	6	35	U	C5-C4-O4	6.70	129.92	125.90
36	5	248	U	C5-C6-N1	6.70	126.05	122.70
36	5	2756	C	C2-N3-C4	-6.70	116.55	119.90
36	1	1109	U	C2-N1-C1'	6.70	125.74	117.70
36	1	1269	U	N1-C2-O2	6.70	127.49	122.80
36	5	697	A	C8-N9-C4	6.70	108.48	105.80
36	5	974	G	C6-N1-C2	-6.70	121.08	125.10
36	5	1319	G	N3-C2-N2	-6.70	115.21	119.90
36	5	1433	A	O4'-C1'-N9	-6.70	102.84	108.20
36	5	2796	G	N3-C2-N2	6.70	124.59	119.90
36	5	3219	G	N7-C8-N9	6.70	116.45	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	322	U	N1-C2-O2	6.70	127.49	122.80
36	1	518	G	N3-C4-C5	6.70	131.95	128.60
36	1	651	G	N3-C4-C5	-6.70	125.25	128.60
36	1	2889	C	C6-N1-C2	6.70	122.98	120.30
38	4	30	C	C2-N3-C4	-6.70	116.55	119.90
1	6	1573	A	C6-N1-C2	-6.70	114.58	118.60
36	5	1209	G	C5-C6-N1	-6.70	108.15	111.50
36	5	2116	G	C5-N7-C8	-6.70	100.95	104.30
1	2	89	G	N3-C4-C5	6.70	131.95	128.60
36	1	796	U	N3-C2-O2	6.70	126.89	122.20
36	1	1065	A	N9-C4-C5	6.70	108.48	105.80
36	1	1269	U	C2-N1-C1'	6.70	125.74	117.70
36	1	2998	U	N1-C2-O2	-6.70	118.11	122.80
36	5	900	G	N3-C4-C5	-6.70	125.25	128.60
36	5	2187	G	N3-C4-N9	-6.70	121.98	126.00
36	5	2290	C	N3-C4-N4	-6.70	113.31	118.00
36	5	3292	A	O5'-P-OP2	-6.70	99.67	105.70
36	1	2847	A	C4-C5-N7	6.70	114.05	110.70
36	5	629	U	C5-C4-O4	6.70	129.92	125.90
36	5	3005	A	N1-C6-N6	6.70	122.62	118.60
36	1	583	G	O5'-P-OP1	-6.70	99.67	105.70
36	1	1137	C	OP2-P-O3'	6.70	119.93	105.20
36	1	1695	U	C5-C6-N1	-6.70	119.35	122.70
36	1	2305	G	C5-C6-N1	6.70	114.85	111.50
37	3	79	A	N3-C4-C5	6.70	131.49	126.80
36	5	3026	G	C5-C6-N1	-6.70	108.15	111.50
36	5	3089	C	N3-C4-N4	6.70	122.69	118.00
36	1	1419	A	N7-C8-N9	6.69	117.15	113.80
36	1	1520	G	C5-C6-N1	-6.69	108.15	111.50
36	1	1522	U	C5-C6-N1	-6.69	119.35	122.70
36	5	973	A	C6-C5-N7	-6.69	127.61	132.30
36	5	2893	C	N1-C2-N3	-6.69	114.51	119.20
36	1	1046	A	O4'-C1'-N9	-6.69	102.85	108.20
36	1	1326	A	O5'-P-OP1	6.69	118.73	110.70
1	6	1150	G	N1-C6-O6	6.69	123.92	119.90
36	5	362	U	N1-C2-N3	6.69	118.92	114.90
36	5	1323	G	O5'-P-OP1	6.69	118.73	110.70
36	5	2120	A	C5-C6-N1	-6.69	114.35	117.70
36	5	2735	U	N3-C2-O2	-6.69	117.52	122.20
36	1	1490	A	C8-N9-C4	-6.69	103.12	105.80
36	1	1906	G	C5-C6-O6	-6.69	124.59	128.60
36	1	2210	G	C6-C5-N7	6.69	134.41	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2641	U	O5'-P-OP1	6.69	118.73	110.70
38	4	51	G	C2-N3-C4	-6.69	108.56	111.90
1	6	1472	C	C2-N3-C4	-6.69	116.56	119.90
36	5	264	G	N3-C4-C5	-6.69	125.25	128.60
36	5	1113	G	N3-C4-N9	-6.69	121.99	126.00
36	5	2278	C	C2-N3-C4	6.69	123.25	119.90
36	5	2285	C	C2-N3-C4	-6.69	116.56	119.90
1	2	12	U	N1-C2-O2	-6.69	118.12	122.80
1	2	424	C	C5-C6-N1	6.69	124.34	121.00
36	1	372	A	O5'-P-OP2	-6.69	99.68	105.70
36	1	796	U	C4-C5-C6	-6.69	115.69	119.70
36	1	1323	G	N1-C6-O6	6.69	123.91	119.90
36	1	3032	A	N1-C6-N6	-6.69	114.59	118.60
1	6	1288	G	C8-N9-C4	6.69	109.08	106.40
1	6	1517	U	O5'-P-OP2	-6.69	99.68	105.70
1	6	1582	U	O5'-P-OP1	-6.69	99.68	105.70
1	6	1619	C	N1-C2-O2	6.69	122.91	118.90
36	1	2743	A	C8-N9-C4	6.69	108.47	105.80
1	6	1456	C	C5-C4-N4	6.69	124.88	120.20
12	c0	97	PRO	N-CA-CB	6.69	111.33	103.30
36	5	1038	C	C6-N1-C2	-6.69	117.62	120.30
36	5	1073	U	N3-C4-O4	-6.69	114.72	119.40
36	5	1096	U	C5-C4-O4	-6.69	121.89	125.90
36	5	2652	U	N3-C4-O4	6.69	124.08	119.40
37	7	29	C	C4-C5-C6	6.69	120.74	117.40
1	2	1789	G	O4'-C1'-N9	-6.69	102.85	108.20
1	6	1735	U	N3-C2-O2	-6.68	117.52	122.20
36	5	2291	A	N3-C4-C5	6.68	131.48	126.80
36	5	3031	G	O5'-P-OP2	-6.68	99.68	105.70
36	1	350	C	N3-C2-O2	-6.68	117.22	121.90
36	1	580	C	N1-C2-O2	-6.68	114.89	118.90
36	1	957	C	O5'-P-OP2	-6.68	99.69	105.70
36	1	998	A	C5-C6-N6	-6.68	118.35	123.70
36	1	1311	G	C5-C6-N1	-6.68	108.16	111.50
36	1	3144	G	N1-C6-O6	6.68	123.91	119.90
36	1	3295	A	C8-N9-C4	-6.68	103.13	105.80
37	3	92	A	C6-N1-C2	6.68	122.61	118.60
38	4	34	U	C5-C6-N1	-6.68	119.36	122.70
1	6	1055	U	C6-N1-C2	-6.68	116.99	121.00
1	6	1654	G	N3-C2-N2	-6.68	115.22	119.90
36	1	1434	G	N7-C8-N9	6.68	116.44	113.10
36	1	2641	U	C5-C6-N1	-6.68	119.36	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	745	C	N3-C4-N4	6.68	122.68	118.00
36	5	952	A	N3-C4-N9	-6.68	122.06	127.40
36	5	2995	A	O5'-P-OP2	-6.68	99.69	105.70
36	1	406	G	C5-C6-O6	6.68	132.61	128.60
36	1	705	A	N1-C6-N6	6.68	122.61	118.60
36	1	1908	A	C4-C5-C6	6.68	120.34	117.00
36	1	2946	A	N7-C8-N9	6.68	117.14	113.80
1	6	6	G	C5-C6-O6	-6.68	124.59	128.60
1	6	98	U	N3-C4-C5	-6.68	110.59	114.60
1	6	1189	A	N7-C8-N9	-6.68	110.46	113.80
1	6	1226	A	C8-N9-C4	-6.68	103.13	105.80
36	5	1838	G	N3-C4-N9	6.68	130.01	126.00
36	5	2363	A	N3-C4-N9	-6.68	122.06	127.40
36	5	2898	G	C4-C5-N7	-6.68	108.13	110.80
38	4	109	A	N9-C4-C5	-6.68	103.13	105.80
36	5	581	U	C6-N1-C2	-6.68	116.99	121.00
36	5	947	G	C8-N9-C1'	-6.68	118.32	127.00
36	5	1144	U	C5-C6-N1	-6.68	119.36	122.70
36	1	1605	A	P-O3'-C3'	6.68	127.71	119.70
1	6	29	U	C5-C4-O4	6.68	129.91	125.90
1	6	577	G	C5-N7-C8	-6.68	100.96	104.30
36	5	269	G	C4-C5-N7	6.68	113.47	110.80
36	5	504	A	N1-C6-N6	6.68	122.61	118.60
36	5	845	G	N1-C2-N2	-6.68	110.19	116.20
36	5	1770	G	C8-N9-C1'	-6.68	118.32	127.00
37	7	65	G	N1-C6-O6	6.68	123.91	119.90
36	5	182	U	C5-C4-O4	6.67	129.91	125.90
36	5	1108	U	C5-C4-O4	6.67	129.91	125.90
36	5	3041	U	N3-C4-O4	-6.67	114.73	119.40
37	7	104	A	N3-C4-C5	6.67	131.47	126.80
36	1	189	G	C5-C6-O6	6.67	132.60	128.60
36	5	706	A	C8-N9-C4	6.67	108.47	105.80
36	5	2369	G	C5-C6-O6	-6.67	124.60	128.60
1	2	1096	C	C6-N1-C2	-6.67	117.63	120.30
36	1	966	U	N3-C2-O2	-6.67	117.53	122.20
36	1	1499	C	OP1-P-OP2	-6.67	109.59	119.60
1	6	40	A	N1-C2-N3	6.67	132.64	129.30
1	6	1778	G	N1-C6-O6	6.67	123.90	119.90
36	5	878	G	N3-C4-N9	6.67	130.00	126.00
36	5	2706	G	C6-N1-C2	-6.67	121.10	125.10
37	7	37	G	C8-N9-C1'	-6.67	118.33	127.00
1	2	934	C	C2-N1-C1'	6.67	126.14	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	798	G	C6-C5-N7	-6.67	126.40	130.40
36	1	2611	U	N1-C2-N3	6.67	118.90	114.90
54	M8	178	ARG	NE-CZ-NH1	-6.67	116.97	120.30
1	6	678	A	P-O3'-C3'	6.67	127.70	119.70
36	5	913	A	N1-C6-N6	-6.67	114.60	118.60
36	5	3057	U	N1-C2-O2	6.67	127.47	122.80
36	5	3195	U	N3-C4-O4	6.67	124.07	119.40
36	1	2207	A	C2-N3-C4	6.67	113.93	110.60
36	1	2386	A	C6-N1-C2	-6.67	114.60	118.60
36	1	2609	A	OP2-P-O3'	-6.67	90.53	105.20
1	6	294	C	N3-C4-C5	-6.67	119.23	121.90
1	6	606	A	N1-C6-N6	6.67	122.60	118.60
1	6	1172	G	C4-C5-N7	-6.67	108.13	110.80
1	6	1732	A	N3-C4-C5	6.67	131.47	126.80
36	5	1199	C	N3-C4-N4	6.67	122.67	118.00
36	5	1326	A	OP2-P-O3'	6.67	119.87	105.20
36	5	1330	A	N1-C2-N3	6.67	132.63	129.30
36	5	2715	A	C5-N7-C8	6.67	107.23	103.90
36	5	3309	G	C6-N1-C2	-6.67	121.10	125.10
1	2	240	U	C5-C6-N1	6.67	126.03	122.70
36	1	689	U	C6-N1-C2	6.67	125.00	121.00
36	1	1624	G	C5-C6-O6	-6.67	124.60	128.60
36	1	2147	A	C5-C6-N1	6.67	121.03	117.70
36	1	2299	A	N1-C6-N6	6.67	122.60	118.60
36	1	2314	U	N3-C2-O2	6.67	126.87	122.20
36	1	2395	G	C8-N9-C4	-6.67	103.73	106.40
36	1	2821	C	C2-N3-C4	6.67	123.23	119.90
36	1	2883	U	C5-C6-N1	6.67	126.03	122.70
37	3	61	G	O5'-P-OP1	-6.67	99.70	105.70
1	6	1324	G	C8-N9-C4	-6.67	103.73	106.40
36	5	210	U	N3-C4-O4	-6.67	114.73	119.40
36	5	3327	G	N1-C6-O6	6.67	123.90	119.90
1	2	98	U	C5-C6-N1	6.67	126.03	122.70
36	1	1152	G	O5'-P-OP1	-6.67	99.70	105.70
36	1	1257	C	C6-N1-C2	-6.67	117.63	120.30
1	6	970	A	O5'-P-OP1	-6.67	99.70	105.70
1	6	1780	G	C8-N9-C1'	-6.67	118.34	127.00
1	2	1659	A	N1-C6-N6	-6.66	114.60	118.60
36	1	23	A	C6-N1-C2	-6.66	114.60	118.60
36	1	587	U	C5-C4-O4	-6.66	121.90	125.90
36	1	641	C	C5-C6-N1	6.66	124.33	121.00
36	1	1141	C	C2-N1-C1'	6.66	126.13	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2323	G	N9-C4-C5	-6.66	102.73	105.40
36	1	3293	U	O4'-C1'-N1	6.66	113.53	108.20
1	6	1550	A	C5-N7-C8	-6.66	100.57	103.90
36	5	283	G	C5-C6-N1	6.66	114.83	111.50
36	5	1492	G	O5'-P-OP1	-6.66	99.70	105.70
36	5	2165	G	N3-C4-N9	6.66	130.00	126.00
36	5	2914	G	C4-C5-N7	6.66	113.47	110.80
36	5	3270	U	N1-C2-O2	6.66	127.47	122.80
1	2	311	U	N1-C2-N3	6.66	118.90	114.90
36	1	872	U	N3-C4-C5	-6.66	110.60	114.60
37	7	118	A	O5'-P-OP2	-6.66	99.70	105.70
1	2	375	U	C5-C6-N1	-6.66	119.37	122.70
36	1	353	G	C5-C6-O6	6.66	132.60	128.60
36	1	499	G	N9-C4-C5	6.66	108.06	105.40
36	1	1482	A	N9-C4-C5	-6.66	103.14	105.80
36	1	3216	G	N3-C4-N9	6.66	130.00	126.00
1	6	1732	A	N1-C2-N3	6.66	132.63	129.30
36	5	809	G	C5-C6-N1	-6.66	108.17	111.50
36	5	2648	G	OP1-P-O3'	6.66	119.85	105.20
36	5	2732	G	N9-C4-C5	6.66	108.06	105.40
36	5	3213	A	N7-C8-N9	-6.66	110.47	113.80
36	1	349	A	C5-C6-N6	6.66	129.03	123.70
36	1	1311	G	N1-C6-O6	6.66	123.89	119.90
36	5	619	A	C8-N9-C4	6.66	108.46	105.80
36	5	1545	A	C8-N9-C4	-6.66	103.14	105.80
36	5	3208	G	C4-N9-C1'	6.66	135.16	126.50
36	5	790	U	C5-C6-N1	-6.66	119.37	122.70
38	8	111	A	N1-C6-N6	6.66	122.59	118.60
1	2	240	U	OP2-P-O3'	6.66	119.84	105.20
36	1	147	U	N1-C2-N3	6.66	118.89	114.90
36	1	1726	C	N3-C4-C5	-6.66	119.24	121.90
36	1	2153	U	O5'-P-OP2	-6.66	99.71	105.70
36	1	2904	U	C6-N1-C2	6.66	124.99	121.00
1	6	1095	U	O5'-P-OP1	-6.66	99.71	105.70
1	6	1538	U	O5'-P-OP2	-6.66	99.71	105.70
36	5	749	C	O5'-P-OP1	-6.66	99.71	105.70
36	5	1112	A	C4-C5-C6	6.66	120.33	117.00
36	5	1289	G	N7-C8-N9	-6.66	109.77	113.10
36	5	1900	A	N7-C8-N9	6.66	117.13	113.80
36	5	1907	C	C4-C5-C6	6.66	120.73	117.40
36	5	2362	C	N3-C2-O2	-6.66	117.24	121.90
37	7	75	G	N3-C4-C5	6.66	131.93	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	112	U	C4-C5-C6	6.65	123.69	119.70
36	1	1197	A	C4-C5-N7	6.65	114.03	110.70
36	1	2374	C	O5'-P-OP1	6.65	118.69	110.70
36	5	282	G	C5-C6-N1	-6.65	108.17	111.50
36	5	1157	G	N3-C2-N2	-6.65	115.24	119.90
36	5	2130	G	N1-C6-O6	6.65	123.89	119.90
36	1	699	A	O5'-P-OP1	-6.65	99.71	105.70
36	1	716	A	C8-N9-C4	6.65	108.46	105.80
36	1	871	U	C5-C6-N1	-6.65	119.37	122.70
36	1	1150	A	OP1-P-OP2	-6.65	109.62	119.60
36	1	2305	G	C6-C5-N7	6.65	134.39	130.40
36	1	2818	U	C5'-C4'-O4'	-6.65	101.12	109.10
38	4	13	A	O4'-C1'-N9	6.65	113.52	108.20
36	5	1120	A	C8-N9-C4	-6.65	103.14	105.80
36	5	1861	G	N1-C2-N3	6.65	127.89	123.90
36	5	2914	G	C6-C5-N7	-6.65	126.41	130.40
36	5	3099	C	C5-C6-N1	-6.65	117.67	121.00
36	5	3303	G	N3-C4-N9	-6.65	122.01	126.00
1	2	1550	A	N1-C6-N6	6.65	122.59	118.60
36	1	21	G	N1-C6-O6	-6.65	115.91	119.90
36	1	910	G	O5'-P-OP2	-6.65	99.71	105.70
36	1	1393	A	C5-C6-N6	6.65	129.02	123.70
1	6	1763	A	C6-N1-C2	-6.65	114.61	118.60
36	5	907	G	N9-C4-C5	-6.65	102.74	105.40
36	5	1120	A	N9-C4-C5	6.65	108.46	105.80
36	5	1148	G	C5-C6-N1	-6.65	108.17	111.50
36	5	2344	U	O5'-P-OP2	-6.65	99.71	105.70
36	5	2596	U	C2-N1-C1'	6.65	125.68	117.70
36	1	1114	U	N3-C2-O2	-6.65	117.55	122.20
36	1	2618	G	C8-N9-C4	-6.65	103.74	106.40
36	1	2794	G	N1-C6-O6	-6.65	115.91	119.90
1	6	65	A	C8-N9-C4	6.65	108.46	105.80
36	5	1195	A	C5-N7-C8	-6.65	100.58	103.90
36	1	438	A	N1-C6-N6	6.65	122.59	118.60
36	1	2620	G	N1-C2-N3	6.65	127.89	123.90
37	3	91	G	N1-C2-N3	6.65	127.89	123.90
1	6	1278	G	N9-C4-C5	6.65	108.06	105.40
36	5	773	G	C8-N9-C4	-6.65	103.74	106.40
36	5	1292	C	O4'-C1'-N1	-6.65	102.88	108.20
36	5	2334	U	N1-C2-O2	6.65	127.45	122.80
36	5	2767	U	N1-C2-N3	6.65	118.89	114.90
36	5	2916	U	N3-C4-O4	-6.65	114.75	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	765	G	O4'-C1'-N9	-6.65	102.88	108.20
1	2	1029	U	O4'-C1'-N1	6.65	113.52	108.20
36	1	286	U	C6-N1-C2	-6.65	117.01	121.00
36	1	3150	A	C5-N7-C8	-6.65	100.58	103.90
1	6	794	U	C5-C6-N1	6.65	126.02	122.70
1	6	1147	A	N1-C2-N3	6.65	132.62	129.30
7	s5	92	ARG	NE-CZ-NH2	-6.65	116.98	120.30
36	5	2550	U	C5-C4-O4	6.65	129.89	125.90
36	1	1405	U	N1-C2-N3	6.64	118.89	114.90
36	1	1552	G	C4-C5-C6	6.64	122.79	118.80
37	3	56	A	C8-N9-C4	6.64	108.46	105.80
38	4	97	A	N1-C2-N3	6.64	132.62	129.30
1	6	752	A	C8-N9-C4	6.64	108.46	105.80
36	5	732	C	N3-C2-O2	-6.64	117.25	121.90
36	5	1322	U	N1-C2-O2	-6.64	118.15	122.80
36	5	1403	C	C5-C4-N4	-6.64	115.55	120.20
36	5	2155	G	C6-C5-N7	-6.64	126.41	130.40
36	5	2420	C	N3-C4-N4	6.64	122.65	118.00
36	5	3115	C	O5'-P-OP1	-6.64	99.72	105.70
36	1	277	G	N1-C2-N3	-6.64	119.92	123.90
36	1	901	G	C6-C5-N7	6.64	134.38	130.40
36	1	2703	A	O4'-C1'-N9	-6.64	102.89	108.20
36	1	2877	G	O4'-C1'-N9	6.64	113.51	108.20
1	6	1640	C	N3-C4-C5	6.64	124.56	121.90
36	5	189	G	C4-C5-N7	-6.64	108.14	110.80
36	5	328	U	N1-C2-O2	6.64	127.45	122.80
36	5	860	G	C6-C5-N7	-6.64	126.42	130.40
36	5	1465	A	C6-C5-N7	-6.64	127.65	132.30
36	5	2694	A	C8-N9-C4	6.64	108.46	105.80
36	1	372	A	C5-N7-C8	-6.64	100.58	103.90
36	1	864	G	N3-C4-N9	6.64	129.98	126.00
36	1	3367	C	N3-C4-C5	6.64	124.56	121.90
36	5	827	A	N7-C8-N9	6.64	117.12	113.80
36	5	951	A	C5-C6-N6	6.64	129.01	123.70
36	5	1592	G	C5-C6-O6	6.64	132.59	128.60
36	1	2865	U	C5-C6-N1	-6.64	119.38	122.70
1	6	35	U	N1-C2-N3	6.64	118.88	114.90
1	6	1473	U	N3-C4-O4	-6.64	114.75	119.40
36	1	676	G	C8-N9-C1'	-6.64	118.37	127.00
36	1	2631	U	C2-N3-C4	-6.64	123.02	127.00
36	1	3322	A	C8-N9-C4	6.64	108.45	105.80
38	8	13	A	N9-C4-C5	-6.64	103.14	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	874	U	O5'-P-OP2	6.64	118.66	110.70
36	1	1414	G	N3-C4-C5	6.64	131.92	128.60
36	1	1449	A	N9-C4-C5	6.64	108.45	105.80
36	1	1908	A	N1-C2-N3	6.64	132.62	129.30
36	1	2746	A	C4-C5-C6	-6.64	113.68	117.00
36	1	2896	A	N1-C6-N6	6.64	122.58	118.60
36	1	3139	A	O5'-P-OP1	-6.64	99.73	105.70
36	5	2235	C	C6-N1-C2	-6.64	117.64	120.30
36	1	2093	A	N3-C4-C5	-6.63	122.16	126.80
36	1	2196	C	N3-C4-N4	-6.63	113.36	118.00
1	6	1631	A	N1-C2-N3	-6.63	125.98	129.30
36	5	1137	C	C4-C5-C6	6.63	120.72	117.40
36	5	1166	G	N1-C6-O6	6.63	123.88	119.90
36	1	834	U	C2-N1-C1'	-6.63	109.74	117.70
36	5	848	A	N1-C6-N6	6.63	122.58	118.60
36	1	198	A	N7-C8-N9	6.63	117.11	113.80
36	1	1713	G	N3-C4-C5	6.63	131.92	128.60
1	6	777	C	C5-C4-N4	-6.63	115.56	120.20
1	6	1392	U	C6-N1-C2	6.63	124.98	121.00
36	5	358	G	N9-C1'-C2'	-6.63	104.70	112.00
36	5	633	C	C6-N1-C2	6.63	122.95	120.30
36	5	1185	C	C2-N3-C4	-6.63	116.58	119.90
36	1	880	G	C8-N9-C1'	6.63	135.62	127.00
36	1	3266	G	C5-C6-O6	6.63	132.58	128.60
1	6	1642	G	C5-C6-N1	6.63	114.81	111.50
36	5	917	A	N3-C4-N9	-6.63	122.10	127.40
36	5	1144	U	C6-N1-C2	6.63	124.98	121.00
36	5	2824	G	N1-C2-N2	-6.63	110.23	116.20
36	1	337	G	C5-C6-O6	-6.63	124.62	128.60
36	1	945	C	C4-C5-C6	6.63	120.71	117.40
36	1	1556	C	N1-C2-O2	6.63	122.88	118.90
36	1	3142	A	N3-C4-C5	6.63	131.44	126.80
36	5	110	G	N3-C4-C5	-6.63	125.29	128.60
36	5	2401	A	N7-C8-N9	6.63	117.11	113.80
37	7	93	C	O5'-P-OP1	6.63	118.65	110.70
1	2	1750	A	C2-N3-C4	-6.63	107.29	110.60
36	1	2190	U	N3-C4-C5	-6.63	110.62	114.60
37	3	84	A	O5'-P-OP2	6.63	118.65	110.70
1	6	397	A	N1-C6-N6	6.63	122.58	118.60
36	5	664	U	C6-N1-C2	-6.63	117.02	121.00
36	5	730	C	C4-C5-C6	6.63	120.71	117.40
36	5	1709	C	C5-C6-N1	-6.63	117.69	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2237	C	N3-C4-C5	-6.63	119.25	121.90
36	5	2313	A	N1-C2-N3	6.63	132.61	129.30
36	5	3012	A	C5-C6-N1	6.63	121.01	117.70
36	5	3099	C	OP1-P-OP2	6.63	129.54	119.60
36	1	2807	U	N3-C4-O4	6.62	124.04	119.40
36	1	3256	G	C4-N9-C1'	6.62	135.11	126.50
1	6	1142	A	N9-C4-C5	6.62	108.45	105.80
36	5	1394	A	C5-C6-N6	-6.62	118.40	123.70
38	8	115	C	C6-N1-C2	6.62	122.95	120.30
36	1	1329	U	OP1-P-OP2	6.62	129.54	119.60
36	1	1366	A	C6-N1-C2	-6.62	114.63	118.60
36	1	3226	A	N9-C4-C5	6.62	108.45	105.80
36	5	831	G	N3-C4-C5	6.62	131.91	128.60
36	5	963	G	N1-C6-O6	-6.62	115.92	119.90
36	5	3110	C	O5'-P-OP1	-6.62	99.74	105.70
37	7	42	A	N3-C4-C5	-6.62	122.16	126.80
36	1	188	U	N3-C4-O4	6.62	124.03	119.40
36	1	496	C	C4-C5-C6	-6.62	114.09	117.40
36	1	586	C	N3-C4-N4	6.62	122.64	118.00
36	1	1139	G	C2-N3-C4	-6.62	108.59	111.90
36	1	1503	A	C2-N3-C4	-6.62	107.29	110.60
36	1	3009	G	C4-C5-N7	6.62	113.45	110.80
1	6	1454	G	N1-C6-O6	6.62	123.87	119.90
1	6	1637	C	C6-N1-C2	6.62	122.95	120.30
36	5	1096	U	C6-N1-C2	6.62	124.97	121.00
36	5	2573	G	N1-C6-O6	6.62	123.87	119.90
36	5	3098	G	N1-C6-O6	-6.62	115.93	119.90
36	5	3111	U	N3-C2-O2	-6.62	117.56	122.20
36	1	2777	G	N3-C4-N9	-6.62	122.03	126.00
1	6	420	A	C6-C5-N7	-6.62	127.67	132.30
1	6	1602	C	OP1-P-OP2	-6.62	109.67	119.60
36	5	2702	A	O5'-P-OP1	-6.62	99.74	105.70
36	5	2829	U	C5-C4-O4	-6.62	121.93	125.90
36	5	2995	A	C2-N3-C4	-6.62	107.29	110.60
36	5	3218	A	C4-N9-C1'	6.62	138.22	126.30
1	2	1103	U	N3-C4-O4	-6.62	114.77	119.40
1	2	1589	C	N3-C4-C5	6.62	124.55	121.90
36	1	1168	U	N3-C2-O2	-6.62	117.57	122.20
1	6	934	C	C5-C4-N4	6.62	124.83	120.20
36	5	937	G	O5'-P-OP1	-6.62	99.74	105.70
36	5	1055	A	C5-N7-C8	6.62	107.21	103.90
36	5	2386	A	C8-N9-C4	-6.62	103.15	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1374	C	C6-N1-C2	6.62	122.95	120.30
36	1	925	A	C4-C5-C6	6.62	120.31	117.00
36	1	2403	G	C8-N9-C4	-6.62	103.75	106.40
37	3	88	G	N1-C2-N2	-6.62	110.25	116.20
1	6	382	C	N3-C2-O2	6.62	126.53	121.90
1	6	584	C	C4-C5-C6	6.62	120.71	117.40
36	5	1872	C	N1-C2-N3	6.62	123.83	119.20
36	1	592	A	C5-N7-C8	-6.62	100.59	103.90
36	1	609	G	O5'-P-OP2	-6.62	99.75	105.70
36	1	928	C	N3-C2-O2	6.62	126.53	121.90
36	1	2384	A	C4-C5-C6	6.62	120.31	117.00
36	1	2720	G	C4-C5-N7	6.62	113.45	110.80
36	1	3327	G	C5-C6-N1	-6.62	108.19	111.50
1	6	1135	U	N3-C2-O2	-6.62	117.57	122.20
1	6	1235	C	C5-C6-N1	6.62	124.31	121.00
36	5	568	G	N9-C4-C5	-6.62	102.75	105.40
36	5	890	C	C4-C5-C6	6.62	120.71	117.40
36	5	1190	A	C8-N9-C1'	-6.62	115.79	127.70
36	5	3304	U	N3-C4-C5	-6.62	110.63	114.60
1	2	470	A	N7-C8-N9	-6.61	110.49	113.80
1	2	1386	G	C8-N9-C4	6.61	109.05	106.40
36	1	2633	U	N1-C2-O2	-6.61	118.17	122.80
36	1	3070	A	N1-C2-N3	6.61	132.61	129.30
36	5	2713	U	N3-C4-O4	6.61	124.03	119.40
36	5	2829	U	OP2-P-O3'	6.61	119.75	105.20
37	7	101	G	C6-C5-N7	-6.61	126.43	130.40
36	1	2669	G	C5-C6-O6	6.61	132.57	128.60
36	1	2955	U	N1-C2-O2	6.61	127.43	122.80
1	6	310	C	C5-C6-N1	6.61	124.31	121.00
1	6	1599	C	N1-C2-O2	6.61	122.87	118.90
36	5	3346	U	N3-C2-O2	-6.61	117.57	122.20
1	2	1004	U	C5-C4-O4	6.61	129.87	125.90
36	1	264	G	C5-N7-C8	6.61	107.61	104.30
36	1	3051	U	C5-C6-N1	6.61	126.00	122.70
37	3	97	A	C5-N7-C8	6.61	107.20	103.90
1	6	301	A	C2-N3-C4	6.61	113.91	110.60
1	6	1169	G	N1-C2-N2	-6.61	110.25	116.20
36	5	2312	A	C6-C5-N7	6.61	136.93	132.30
36	1	2598	G	C2-N3-C4	6.61	115.20	111.90
70	O4	51	LEU	CA-CB-CG	6.61	130.50	115.30
36	5	404	G	C2-N3-C4	-6.61	108.60	111.90
36	5	945	C	C4-C5-C6	6.61	120.70	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2699	G	N1-C2-N2	6.61	122.15	116.20
36	5	2848	G	N3-C4-C5	6.61	131.91	128.60
38	8	24	G	N1-C6-O6	-6.61	115.94	119.90
1	2	1274	C	C2-N1-C1'	6.61	126.07	118.80
1	6	1041	G	N3-C2-N2	-6.61	115.28	119.90
1	6	1452	U	N3-C4-O4	6.61	124.03	119.40
1	6	1766	A	N1-C6-N6	6.61	122.56	118.60
36	5	214	G	C4-N9-C1'	-6.61	117.91	126.50
36	5	424	G	C5-N7-C8	-6.61	101.00	104.30
36	5	821	U	C5-C6-N1	6.61	126.00	122.70
36	5	1513	G	C5-C6-O6	-6.61	124.64	128.60
36	5	2896	A	C8-N9-C4	6.61	108.44	105.80
1	2	1747	G	N1-C6-O6	-6.61	115.94	119.90
36	1	978	G	N1-C2-N2	6.61	122.14	116.20
36	1	1508	C	N3-C2-O2	-6.61	117.28	121.90
36	1	3130	A	C2-N3-C4	-6.61	107.30	110.60
1	6	1001	A	OP1-P-O3'	6.61	119.73	105.20
36	5	1373	A	N7-C8-N9	6.61	117.10	113.80
36	5	2192	C	N3-C4-N4	6.61	122.62	118.00
36	5	2404	A	N9-C4-C5	6.61	108.44	105.80
36	5	2630	C	N3-C4-C5	6.61	124.54	121.90
36	5	3044	G	C2-N3-C4	-6.61	108.60	111.90
1	2	453	U	C5-C6-N1	6.60	126.00	122.70
36	1	414	U	N3-C4-O4	-6.60	114.78	119.40
36	1	2999	U	N3-C4-O4	-6.60	114.78	119.40
36	5	127	G	N3-C2-N2	-6.60	115.28	119.90
36	1	55	G	N3-C4-N9	6.60	129.96	126.00
36	1	982	C	N1-C2-O2	6.60	122.86	118.90
40	L3	233	TRP	CA-CB-CG	-6.60	101.16	113.70
1	6	149	C	C5-C6-N1	-6.60	117.70	121.00
1	6	440	U	N1-C2-O2	-6.60	118.18	122.80
37	7	37	G	C5-C6-O6	-6.60	124.64	128.60
36	1	1020	G	C5-C6-O6	-6.60	124.64	128.60
36	1	3087	A	C4-C5-C6	6.60	120.30	117.00
36	5	363	G	O5'-P-OP1	-6.60	99.76	105.70
36	5	2629	U	N3-C4-C5	-6.60	110.64	114.60
36	5	3036	G	C2-N3-C4	-6.60	108.60	111.90
1	2	550	A	C8-N9-C4	-6.60	103.16	105.80
36	1	345	G	N7-C8-N9	6.60	116.40	113.10
36	1	608	A	C4-N9-C1'	6.60	138.18	126.30
36	1	1761	C	C6-N1-C2	6.60	122.94	120.30
38	4	34	U	N1-C2-N3	6.60	118.86	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	104	A	N1-C6-N6	6.60	122.56	118.60
36	5	314	U	C5-C4-O4	6.60	129.86	125.90
36	5	416	A	N3-C4-C5	6.60	131.42	126.80
36	5	1490	A	N1-C6-N6	-6.60	114.64	118.60
36	5	1931	U	C6-N1-C1'	6.60	130.44	121.20
36	5	2656	A	C6-N1-C2	-6.60	114.64	118.60
36	5	3102	G	C2-N3-C4	-6.60	108.60	111.90
1	2	360	A	N1-C6-N6	6.60	122.56	118.60
36	1	70	A	N1-C2-N3	6.60	132.60	129.30
36	1	338	A	C6-N1-C2	-6.60	114.64	118.60
36	1	2284	C	C6-N1-C1'	-6.60	112.88	120.80
36	1	2375	G	N1-C2-N3	6.60	127.86	123.90
36	1	2644	C	N1-C2-O2	-6.60	114.94	118.90
36	5	1834	U	N1-C2-O2	-6.60	118.18	122.80
36	5	2099	A	C8-N9-C4	-6.60	103.16	105.80
36	5	2414	G	C2-N3-C4	-6.60	108.60	111.90
36	5	2719	U	N1-C2-O2	-6.60	118.18	122.80
36	5	3177	G	N1-C2-N3	6.60	127.86	123.90
36	1	384	A	C8-N9-C4	-6.60	103.16	105.80
36	1	973	A	C2-N3-C4	-6.60	107.30	110.60
36	1	2862	U	C6-N1-C2	6.60	124.96	121.00
36	5	805	G	C5-C6-N1	6.60	114.80	111.50
36	5	1206	G	N3-C4-N9	6.60	129.96	126.00
36	5	1440	G	OP2-P-O3'	6.60	119.71	105.20
36	1	504	A	C6-N1-C2	-6.59	114.64	118.60
36	1	1196	C	C6-N1-C1'	-6.59	112.89	120.80
36	1	2696	A	C2-N3-C4	6.59	113.90	110.60
36	1	2894	C	C6-N1-C2	6.59	122.94	120.30
36	1	2897	A	O4'-C1'-N9	6.59	113.47	108.20
1	6	1728	A	N1-C6-N6	6.59	122.56	118.60
36	5	346	C	N3-C2-O2	-6.59	117.28	121.90
36	5	388	G	N9-C4-C5	6.59	108.04	105.40
36	5	1093	A	C8-N9-C4	-6.59	103.16	105.80
36	5	1113	G	N1-C6-O6	6.59	123.86	119.90
36	5	1293	U	C5-C6-N1	-6.59	119.40	122.70
36	5	1393	A	N1-C2-N3	6.59	132.60	129.30
36	5	1401	A	C6-N1-C2	-6.59	114.64	118.60
36	5	1406	A	C4-C5-C6	6.59	120.30	117.00
36	5	1699	A	C8-N9-C4	6.59	108.44	105.80
36	5	3172	A	N9-C4-C5	-6.59	103.16	105.80
36	5	3361	G	C6-C5-N7	-6.59	126.44	130.40
36	1	727	G	O5'-P-OP1	-6.59	99.77	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3375	A	N1-C6-N6	-6.59	114.64	118.60
36	5	1005	G	N3-C4-N9	-6.59	122.04	126.00
36	5	2614	G	N1-C2-N2	-6.59	110.27	116.20
36	1	815	G	N9-C4-C5	6.59	108.04	105.40
1	6	1645	G	C5-C6-N1	6.59	114.80	111.50
36	5	1203	A	C2-N3-C4	-6.59	107.31	110.60
1	2	1751	C	C5-C6-N1	-6.59	117.71	121.00
36	1	92	G	C2-N3-C4	-6.59	108.61	111.90
36	1	1020	G	N9-C4-C5	-6.59	102.76	105.40
38	4	50	C	C6-N1-C2	6.59	122.94	120.30
36	5	867	G	C5-C6-O6	-6.59	124.65	128.60
36	5	902	G	N3-C4-C5	6.59	131.90	128.60
36	5	1436	U	N1-C2-O2	6.59	127.41	122.80
36	5	2249	G	C8-N9-C4	-6.59	103.76	106.40
36	5	2746	A	OP2-P-O3'	6.59	119.70	105.20
36	5	2911	A	N9-C4-C5	6.59	108.44	105.80
36	1	961	C	C5-C6-N1	6.59	124.29	121.00
36	1	1544	G	N1-C6-O6	6.59	123.85	119.90
36	1	2869	U	C5-C6-N1	6.59	125.99	122.70
1	6	876	G	N3-C4-C5	6.59	131.89	128.60
36	5	233	C	C2-N1-C1'	-6.59	111.55	118.80
36	5	2383	C	N1-C2-O2	6.59	122.85	118.90
36	5	3026	G	C5-C6-O6	-6.59	124.65	128.60
1	2	1345	A	C2-N3-C4	-6.59	107.31	110.60
36	1	1885	U	C4-C5-C6	6.59	123.65	119.70
38	4	16	G	C5-C6-O6	-6.59	124.65	128.60
55	M9	129	GLY	N-CA-C	-6.59	96.63	113.10
1	6	575	C	O5'-P-OP1	-6.59	99.77	105.70
1	6	858	G	N7-C8-N9	6.59	116.39	113.10
1	6	1149	G	N1-C2-N3	6.59	127.85	123.90
36	5	937	G	N1-C6-O6	-6.59	115.95	119.90
36	5	1849	C	N1-C2-O2	-6.59	114.95	118.90
36	1	211	A	O5'-P-OP2	6.58	118.60	110.70
36	1	1524	A	C4-C5-N7	-6.58	107.41	110.70
36	1	1665	C	C2-N1-C1'	-6.58	111.56	118.80
36	1	2357	A	C8-N9-C4	-6.58	103.17	105.80
36	1	2983	C	C2-N3-C4	-6.58	116.61	119.90
36	1	3362	A	O4'-C1'-N9	6.58	113.47	108.20
38	8	99	C	C6-N1-C2	6.58	122.93	120.30
1	2	694	U	C2-N1-C1'	6.58	125.60	117.70
1	2	1177	C	N3-C2-O2	6.58	126.51	121.90
36	1	662	U	C6-N1-C2	6.58	124.95	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	103	A	C5-N7-C8	-6.58	100.61	103.90
1	6	1196	A	C8-N9-C4	-6.58	103.17	105.80
1	6	1614	A	C5-C6-N1	-6.58	114.41	117.70
36	5	884	A	OP1-P-O3'	6.58	119.68	105.20
36	5	968	G	N3-C4-N9	6.58	129.95	126.00
36	5	1883	A	C4-C5-C6	6.58	120.29	117.00
38	8	66	A	C4-C5-C6	6.58	120.29	117.00
1	2	618	U	O5'-P-OP1	-6.58	99.78	105.70
36	1	65	A	OP1-P-O3'	6.58	119.68	105.20
36	1	357	A	N9-C4-C5	6.58	108.43	105.80
36	1	1169	A	C8-N9-C4	-6.58	103.17	105.80
36	1	1656	A	C8-N9-C4	6.58	108.43	105.80
36	1	1869	C	N3-C4-C5	-6.58	119.27	121.90
36	1	2238	G	C6-C5-N7	6.58	134.35	130.40
36	1	2651	G	N9-C4-C5	-6.58	102.77	105.40
1	6	60	U	N1-C2-O2	6.58	127.41	122.80
36	5	924	G	C5-C6-N1	-6.58	108.21	111.50
36	5	2122	G	C5-N7-C8	-6.58	101.01	104.30
44	17	83	LEU	CA-CB-CG	6.58	130.44	115.30
36	1	3280	U	O4'-C1'-N1	6.58	113.46	108.20
36	1	3375	A	C5'-C4'-O4'	-6.58	101.20	109.10
38	4	46	G	C8-N9-C1'	-6.58	118.45	127.00
36	5	101	G	O5'-P-OP1	6.58	118.60	110.70
36	5	1603	A	C5-N7-C8	6.58	107.19	103.90
36	5	1847	A	C4-C5-C6	-6.58	113.71	117.00
36	5	2894	C	C2-N3-C4	-6.58	116.61	119.90
36	5	2950	G	N9-C4-C5	-6.58	102.77	105.40
1	2	1271	G	N3-C4-C5	6.58	131.89	128.60
1	2	1758	U	N1-C2-O2	6.58	127.41	122.80
36	1	324	A	OP2-P-O3'	6.58	119.67	105.20
36	1	1429	G	N9-C4-C5	-6.58	102.77	105.40
36	1	1488	G	C6-C5-N7	-6.58	126.45	130.40
36	1	2257	C	N3-C2-O2	-6.58	117.30	121.90
36	1	2395	G	C5-N7-C8	-6.58	101.01	104.30
36	1	3322	A	N1-C6-N6	6.58	122.55	118.60
1	6	423	G	C8-N9-C1'	6.58	135.55	127.00
1	6	1141	G	C5-C6-O6	-6.58	124.65	128.60
36	5	210	U	C6-N1-C2	6.58	124.95	121.00
36	5	792	G	N1-C6-O6	-6.58	115.95	119.90
36	1	909	G	N7-C8-N9	6.58	116.39	113.10
36	1	2597	U	N1-C2-O2	-6.58	118.20	122.80
36	5	643	U	C2-N1-C1'	6.58	125.59	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3188	G	C6-N1-C2	-6.58	121.15	125.10
36	1	1505	C	C2-N1-C1'	-6.58	111.57	118.80
37	3	32	U	N3-C4-O4	6.58	124.00	119.40
38	4	30	C	C5-C6-N1	-6.58	117.71	121.00
36	5	1530	U	N1-C2-N3	-6.58	110.95	114.90
36	5	2393	G	C8-N9-C1'	-6.58	118.45	127.00
36	5	2899	C	C2-N3-C4	-6.58	116.61	119.90
36	1	102	C	N3-C2-O2	-6.57	117.30	121.90
36	1	196	G	N7-C8-N9	-6.57	109.81	113.10
36	1	1515	A	N1-C6-N6	6.57	122.54	118.60
36	1	1755	C	C6-N1-C2	-6.57	117.67	120.30
36	1	2614	G	C6-C5-N7	-6.57	126.46	130.40
36	1	2981	U	C2-N1-C1'	6.57	125.59	117.70
36	1	3277	U	C5-C4-O4	6.57	129.84	125.90
41	L4	259	ASP	CB-CG-OD1	-6.57	112.38	118.30
36	5	1915	A	C8-N9-C4	-6.57	103.17	105.80
36	5	2392	C	C2-N3-C4	-6.57	116.61	119.90
38	8	139	U	C2-N3-C4	-6.57	123.06	127.00
36	1	240	U	C5-C6-N1	6.57	125.99	122.70
36	1	632	G	N3-C4-N9	6.57	129.94	126.00
36	1	2241	U	C6-N1-C2	-6.57	117.06	121.00
36	5	1321	G	C5-C6-O6	-6.57	124.66	128.60
36	1	358	G	C2-N3-C4	-6.57	108.61	111.90
36	1	2176	U	N3-C4-O4	6.57	124.00	119.40
36	1	2867	C	C4-C5-C6	-6.57	114.11	117.40
36	1	2956	A	N7-C8-N9	6.57	117.08	113.80
1	6	555	A	N1-C6-N6	-6.57	114.66	118.60
1	6	770	A	O5'-P-OP2	-6.57	99.79	105.70
1	6	972	G	C8-N9-C1'	-6.57	118.46	127.00
36	5	514	G	C6-N1-C2	-6.57	121.16	125.10
36	5	866	A	C5-C6-N6	-6.57	118.44	123.70
36	5	2615	G	C8-N9-C4	6.57	109.03	106.40
36	1	187	A	C8-N9-C4	-6.57	103.17	105.80
36	1	1130	A	N1-C6-N6	-6.57	114.66	118.60
36	1	1305	U	C5-C4-O4	6.57	129.84	125.90
36	1	3182	G	N1-C2-N3	6.57	127.84	123.90
36	1	3270	U	C6-N1-C2	6.57	124.94	121.00
36	5	397	A	C5-N7-C8	6.57	107.19	103.90
36	5	1198	C	OP1-P-OP2	-6.57	109.75	119.60
36	5	2395	G	O5'-P-OP1	6.57	118.58	110.70
36	1	760	G	N3-C4-N9	-6.57	122.06	126.00
36	1	1431	G	N3-C4-N9	6.57	129.94	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1607	U	C5-C6-N1	-6.57	119.42	122.70
36	1	3378	C	O5'-P-OP1	-6.57	99.79	105.70
1	6	435	C	OP1-P-OP2	6.57	129.45	119.60
36	5	1199	C	N3-C4-C5	-6.57	119.27	121.90
36	5	1450	G	N3-C4-C5	-6.57	125.32	128.60
36	5	2417	U	N1-C2-O2	-6.57	118.20	122.80
36	5	2522	G	C5-C6-O6	-6.57	124.66	128.60
36	5	3189	G	OP1-P-OP2	-6.57	109.75	119.60
1	2	628	G	C5-C6-N1	-6.57	108.22	111.50
36	1	1156	C	C2-N3-C4	-6.57	116.62	119.90
36	1	1411	C	C6-N1-C2	-6.57	117.67	120.30
36	1	2516	U	C5-C4-O4	6.57	129.84	125.90
36	1	2818	U	C5-C4-O4	-6.57	121.96	125.90
38	4	19	C	C5-C6-N1	-6.57	117.72	121.00
44	L7	100	ARG	NE-CZ-NH2	-6.57	117.02	120.30
1	6	452	A	C8-N9-C4	6.57	108.43	105.80
1	6	616	G	N7-C8-N9	6.57	116.38	113.10
36	5	1476	G	C4-C5-N7	6.57	113.43	110.80
36	1	1353	U	O4'-C1'-N1	6.56	113.45	108.20
36	1	1905	G	N1-C2-N2	6.56	122.11	116.20
36	1	2269	U	N3-C2-O2	-6.56	117.61	122.20
36	5	2188	A	C4-C5-C6	6.56	120.28	117.00
36	1	1154	A	N9-C4-C5	6.56	108.42	105.80
36	1	2637	A	O4'-C1'-N9	6.56	113.45	108.20
1	6	328	A	O5'-P-OP2	-6.56	99.79	105.70
1	6	1008	G	C5-C6-O6	-6.56	124.66	128.60
1	6	1649	G	O5'-P-OP2	-6.56	99.79	105.70
36	5	511	G	N1-C2-N2	-6.56	110.29	116.20
36	5	2922	G	N7-C8-N9	6.56	116.38	113.10
37	7	45	A	C6-N1-C2	-6.56	114.66	118.60
1	2	1466	G	C5-N7-C8	-6.56	101.02	104.30
36	1	2296	A	O5'-P-OP2	6.56	118.57	110.70
36	1	2911	A	N7-C8-N9	-6.56	110.52	113.80
36	1	3231	U	C5-C4-O4	6.56	129.84	125.90
36	1	3372	A	C5-N7-C8	6.56	107.18	103.90
36	5	3194	C	C4-C5-C6	6.56	120.68	117.40
36	1	156	G	N3-C4-N9	6.56	129.94	126.00
36	1	2982	A	C8-N9-C4	6.56	108.42	105.80
36	5	162	G	N1-C6-O6	-6.56	115.96	119.90
36	5	1581	C	N1-C2-O2	6.56	122.83	118.90
36	5	2371	G	N3-C4-N9	6.56	129.94	126.00
36	5	3082	C	N3-C4-C5	6.56	124.52	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	905	U	C6-N1-C1'	6.56	130.38	121.20
36	1	1152	G	N1-C2-N3	-6.56	119.97	123.90
36	1	1316	C	C2-N3-C4	-6.56	116.62	119.90
36	1	2627	C	OP2-P-O3'	6.56	119.63	105.20
38	4	28	C	N1-C2-O2	-6.56	114.97	118.90
1	6	1110	G	C4-C5-C6	6.56	122.73	118.80
1	6	1566	U	C2-N1-C1'	-6.56	109.83	117.70
36	5	1526	U	N1-C2-O2	-6.56	118.21	122.80
37	7	82	G	C5-C6-N1	6.56	114.78	111.50
37	7	87	G	N3-C2-N2	-6.56	115.31	119.90
1	2	758	U	N3-C2-O2	-6.56	117.61	122.20
36	1	556	U	N3-C2-O2	6.56	126.79	122.20
36	1	1916	U	N1-C2-N3	6.56	118.83	114.90
1	6	969	C	O5'-P-OP1	6.56	118.57	110.70
36	5	1317	A	C8-N9-C4	-6.56	103.18	105.80
36	5	3038	U	C5-C6-N1	-6.56	119.42	122.70
37	7	65	G	N3-C2-N2	-6.56	115.31	119.90
1	2	1096	C	C6-N1-C1'	-6.55	112.93	120.80
1	2	1363	U	N3-C2-O2	-6.55	117.61	122.20
36	1	761	A	C5-N7-C8	-6.55	100.62	103.90
36	1	1330	A	C2-N3-C4	-6.55	107.32	110.60
36	1	1345	G	C8-N9-C4	-6.55	103.78	106.40
36	1	1553	U	C4-C5-C6	6.55	123.63	119.70
36	1	1704	A	C2-N3-C4	-6.55	107.32	110.60
36	1	2315	G	C4-C5-C6	6.55	122.73	118.80
36	1	2343	C	N1-C2-O2	6.55	122.83	118.90
36	1	2409	G	N1-C6-O6	6.55	123.83	119.90
38	4	55	U	N3-C2-O2	-6.55	117.61	122.20
1	6	440	U	O5'-P-OP2	-6.55	99.80	105.70
1	6	444	C	N3-C2-O2	6.55	126.49	121.90
36	5	425	G	C2-N3-C4	-6.55	108.62	111.90
36	5	502	U	O5'-P-OP1	6.55	118.57	110.70
36	5	3209	A	C8-N9-C4	-6.55	103.18	105.80
1	2	320	U	N1-C2-O2	6.55	127.39	122.80
36	1	1858	A	N3-C4-C5	-6.55	122.21	126.80
1	6	1257	U	N3-C2-O2	-6.55	117.61	122.20
36	5	569	A	O5'-P-OP2	-6.55	99.80	105.70
36	5	750	G	OP1-P-O3'	6.55	119.62	105.20
36	1	968	G	N3-C2-N2	6.55	124.49	119.90
36	1	1296	C	C6-N1-C2	-6.55	117.68	120.30
36	1	2778	G	N1-C2-N2	-6.55	110.30	116.20
36	1	2885	C	C5-C4-N4	-6.55	115.61	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2931	C	O5'-P-OP2	-6.55	99.81	105.70
36	1	2959	C	C6-N1-C2	6.55	122.92	120.30
41	L4	182	LEU	CB-CG-CD2	-6.55	99.86	111.00
1	6	301	A	C6-C5-N7	6.55	136.89	132.30
1	6	776	G	C5-C6-O6	-6.55	124.67	128.60
36	5	1116	G	N1-C2-N3	6.55	127.83	123.90
36	5	3061	G	N9-C4-C5	-6.55	102.78	105.40
38	8	44	A	C5-C6-N6	-6.55	118.46	123.70
36	1	909	G	C8-N9-C4	-6.55	103.78	106.40
36	1	1331	U	O5'-P-OP2	-6.55	99.81	105.70
36	1	1546	A	N7-C8-N9	6.55	117.07	113.80
36	5	848	A	C8-N9-C4	-6.55	103.18	105.80
36	5	1041	U	N1-C2-O2	-6.55	118.22	122.80
36	5	1459	C	C6-N1-C2	6.55	122.92	120.30
36	5	1542	G	N7-C8-N9	6.55	116.38	113.10
36	5	2163	C	C6-N1-C2	-6.55	117.68	120.30
36	5	2305	G	N3-C2-N2	-6.55	115.32	119.90
36	5	2388	U	N3-C4-O4	6.55	123.98	119.40
36	5	3217	C	C6-N1-C2	6.55	122.92	120.30
38	8	8	C	N3-C4-N4	6.55	122.58	118.00
1	6	1186	U	N3-C4-O4	-6.55	114.82	119.40
36	5	1889	G	C4-C5-N7	6.55	113.42	110.80
1	2	346	G	N3-C4-N9	-6.55	122.07	126.00
1	2	1484	G	N1-C2-N3	6.55	127.83	123.90
36	1	1305	U	C6-N1-C1'	6.55	130.37	121.20
36	1	2827	U	N1-C2-O2	-6.55	118.22	122.80
36	1	2961	G	N1-C2-N3	6.55	127.83	123.90
36	5	592	A	N1-C2-N3	-6.55	126.03	129.30
36	5	1329	U	P-O3'-C3'	6.55	127.56	119.70
36	5	1894	U	C5-C6-N1	-6.55	119.43	122.70
36	5	2172	A	C4-C5-C6	6.55	120.27	117.00
36	5	2682	C	O5'-P-OP1	6.55	118.56	110.70
36	5	3337	G	N3-C4-N9	6.55	129.93	126.00
36	1	55	G	N9-C4-C5	-6.54	102.78	105.40
36	5	827	A	C6-N1-C2	-6.54	114.67	118.60
36	5	877	C	N1-C2-O2	6.54	122.83	118.90
36	1	790	U	C5-C6-N1	-6.54	119.43	122.70
36	1	3180	A	C5-C6-N6	6.54	128.94	123.70
36	1	3307	A	C5-C6-N6	-6.54	118.47	123.70
1	6	16	G	C5-N7-C8	-6.54	101.03	104.30
1	6	936	G	C8-N9-C4	-6.54	103.78	106.40
1	6	1498	G	C4-C5-C6	6.54	122.73	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1056	U	N3-C2-O2	-6.54	117.62	122.20
36	5	2801	A	C5-N7-C8	-6.54	100.63	103.90
36	5	2883	U	C5-C6-N1	-6.54	119.43	122.70
36	1	2872	A	OP2-P-O3'	6.54	119.59	105.20
1	6	429	G	OP2-P-O3'	6.54	119.59	105.20
1	6	1621	U	N3-C2-O2	6.54	126.78	122.20
36	5	3243	A	O4'-C1'-N9	-6.54	102.97	108.20
37	7	28	C	C4-C5-C6	6.54	120.67	117.40
36	1	202	G	O5'-P-OP1	-6.54	99.81	105.70
36	1	1853	U	C5-C6-N1	6.54	125.97	122.70
1	6	1246	C	N1-C2-O2	6.54	122.82	118.90
1	2	262	U	O5'-P-OP2	-6.54	99.82	105.70
36	1	832	G	C8-N9-C4	6.54	109.02	106.40
36	1	2188	A	OP2-P-O3'	6.54	119.59	105.20
1	6	54	C	N1-C2-N3	6.54	123.78	119.20
36	5	656	A	C5-C6-N1	6.54	120.97	117.70
36	5	2902	A	C4-C5-C6	6.54	120.27	117.00
1	2	6	G	C5-C6-N1	6.54	114.77	111.50
36	1	703	G	N3-C4-N9	-6.54	122.08	126.00
36	1	3308	C	N3-C4-N4	-6.54	113.42	118.00
36	5	2130	G	C5-C6-O6	-6.54	124.68	128.60
1	2	47	A	N7-C8-N9	6.54	117.07	113.80
1	2	976	G	N1-C6-O6	-6.54	115.98	119.90
1	2	1201	G	C4-C5-N7	-6.54	108.19	110.80
1	2	1749	A	N1-C2-N3	6.54	132.57	129.30
36	1	23	A	C2-N3-C4	6.54	113.87	110.60
36	1	3361	G	C8-N9-C4	-6.54	103.79	106.40
1	6	998	A	N1-C2-N3	6.54	132.57	129.30
1	6	1645	G	N3-C2-N2	6.54	124.47	119.90
36	5	503	C	C2-N3-C4	-6.54	116.63	119.90
36	5	1175	C	C2-N3-C4	-6.54	116.63	119.90
36	5	1200	A	C5-C6-N6	-6.54	118.47	123.70
36	5	3057	U	C2-N1-C1'	6.54	125.54	117.70
1	2	1413	U	C2-N1-C1'	6.53	125.54	117.70
36	1	1136	A	C4-C5-N7	-6.53	107.43	110.70
36	1	1879	A	O5'-P-OP1	6.53	118.54	110.70
54	M8	138	LEU	CA-CB-CG	6.53	130.33	115.30
1	6	1132	A	C8-N9-C4	6.53	108.41	105.80
1	6	1641	C	C2-N3-C4	-6.53	116.63	119.90
36	5	27	C	N3-C4-C5	-6.53	119.29	121.90
36	5	1429	G	C8-N9-C1'	-6.53	118.51	127.00
36	5	1473	G	N3-C4-N9	6.53	129.92	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3337	G	C4-N9-C1'	6.53	134.99	126.50
37	7	93	C	C5-C4-N4	-6.53	115.63	120.20
38	8	136	G	OP1-P-OP2	-6.53	109.80	119.60
38	8	144	G	N3-C4-C5	-6.53	125.33	128.60
1	2	1086	A	N1-C6-N6	-6.53	114.68	118.60
36	1	1338	C	C4-C5-C6	-6.53	114.13	117.40
36	5	760	G	C2-N3-C4	-6.53	108.63	111.90
36	5	795	G	C5-C6-O6	6.53	132.52	128.60
37	7	38	U	C5-C6-N1	6.53	125.97	122.70
1	2	1029	U	C6-N1-C1'	6.53	130.34	121.20
1	2	1435	G	N3-C4-C5	-6.53	125.33	128.60
1	2	1789	G	N3-C4-N9	6.53	129.92	126.00
36	1	596	C	C2-N3-C4	-6.53	116.64	119.90
36	1	619	A	N1-C6-N6	6.53	122.52	118.60
36	1	1127	G	N3-C4-C5	6.53	131.87	128.60
36	1	1633	C	C6-N1-C2	-6.53	117.69	120.30
36	1	2276	G	N1-C6-O6	-6.53	115.98	119.90
36	1	2327	U	C6-N1-C2	6.53	124.92	121.00
36	1	2799	A	N1-C6-N6	-6.53	114.68	118.60
1	6	1027	A	C4-C5-C6	6.53	120.27	117.00
36	5	673	U	N1-C2-N3	6.53	118.82	114.90
36	5	2342	U	OP2-P-O3'	6.53	119.56	105.20
36	5	2864	A	OP2-P-O3'	6.53	119.57	105.20
38	8	93	U	C5-C6-N1	-6.53	119.44	122.70
36	1	3209	A	C6-C5-N7	-6.53	127.73	132.30
1	6	1034	C	N1-C2-O2	-6.53	114.98	118.90
36	5	720	A	C8-N9-C4	-6.53	103.19	105.80
36	5	2300	G	OP1-P-O3'	6.53	119.56	105.20
36	5	2699	G	C6-N1-C2	-6.53	121.18	125.10
36	1	659	G	N3-C4-C5	-6.53	125.34	128.60
36	1	693	A	C4-C5-C6	6.53	120.26	117.00
36	1	835	G	N9-C4-C5	-6.53	102.79	105.40
36	1	2153	U	N1-C2-N3	6.53	118.82	114.90
36	5	2136	C	C4-C5-C6	6.53	120.66	117.40
36	5	2614	G	C6-C5-N7	-6.53	126.48	130.40
36	5	3040	A	C2-N3-C4	-6.53	107.34	110.60
36	1	421	G	C6-N1-C2	-6.53	121.19	125.10
36	1	571	U	N1-C2-N3	6.53	118.81	114.90
36	1	1311	G	C8-N9-C4	6.53	109.01	106.40
36	5	1124	U	N3-C4-C5	6.53	118.52	114.60
36	5	2706	G	N3-C4-C5	-6.53	125.34	128.60
36	5	2869	U	OP2-P-O3'	6.53	119.56	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2943	G	N7-C8-N9	6.53	116.36	113.10
36	5	3055	U	N3-C4-C5	6.53	118.52	114.60
37	7	1	G	C8-N9-C4	-6.53	103.79	106.40
37	7	59	U	N1-C2-N3	6.53	118.82	114.90
36	1	1602	A	C8-N9-C4	6.52	108.41	105.80
36	1	1907	C	O5'-P-OP2	-6.52	99.83	105.70
36	1	3109	G	N3-C4-C5	-6.52	125.34	128.60
1	6	351	C	C6-N1-C1'	-6.52	112.97	120.80
1	6	1598	U	N1-C2-O2	6.52	127.37	122.80
1	6	1609	U	C2-N1-C1'	-6.52	109.87	117.70
36	5	1485	G	N1-C2-N2	-6.52	110.33	116.20
36	1	47	C	N1-C2-O2	-6.52	114.99	118.90
36	1	897	U	N3-C2-O2	-6.52	117.63	122.20
36	1	2178	A	C8-N9-C4	6.52	108.41	105.80
36	1	2370	G	N1-C6-O6	-6.52	115.99	119.90
36	1	2384	A	C5-N7-C8	6.52	107.16	103.90
1	6	552	G	N1-C6-O6	6.52	123.81	119.90
36	5	131	C	N3-C2-O2	-6.52	117.33	121.90
36	5	1166	G	O5'-P-OP1	6.52	118.53	110.70
36	5	2108	C	C6-N1-C2	6.52	122.91	120.30
36	5	2376	G	C6-C5-N7	-6.52	126.49	130.40
36	5	2761	G	C4-C5-N7	-6.52	108.19	110.80
6	S4	20	LEU	CA-CB-CG	-6.52	100.30	115.30
36	1	2424	A	C2-N3-C4	-6.52	107.34	110.60
36	5	788	C	N3-C4-C5	-6.52	119.29	121.90
36	5	2825	C	OP2-P-O3'	6.52	119.55	105.20
37	7	52	G	N7-C8-N9	-6.52	109.84	113.10
36	1	979	U	O5'-P-OP1	6.52	118.52	110.70
36	1	1754	G	N1-C6-O6	6.52	123.81	119.90
36	1	2199	G	C2-N3-C4	6.52	115.16	111.90
36	1	2336	U	N3-C2-O2	-6.52	117.64	122.20
36	1	2344	U	C5-C6-N1	-6.52	119.44	122.70
1	6	154	G	C5-C6-O6	-6.52	124.69	128.60
1	6	466	U	N3-C4-C5	-6.52	110.69	114.60
1	6	1142	A	C6-N1-C2	-6.52	114.69	118.60
1	6	1533	C	N3-C4-C5	6.52	124.51	121.90
1	6	1748	G	O5'-P-OP1	6.52	118.52	110.70
30	d8	16	LEU	CA-CB-CG	-6.52	100.31	115.30
36	5	214	G	C8-N9-C4	6.52	109.01	106.40
36	5	2181	C	N1-C2-O2	-6.52	114.99	118.90
36	5	2313	A	OP1-P-OP2	-6.52	109.82	119.60
36	5	2418	G	C5-C6-N1	-6.52	108.24	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2982	A	C8-N9-C4	6.52	108.41	105.80
1	2	1390	U	O4'-C1'-N1	6.52	113.41	108.20
36	1	776	U	C4-C5-C6	6.52	123.61	119.70
36	1	1899	G	C8-N9-C4	-6.52	103.79	106.40
38	4	73	U	N1-C2-O2	6.52	127.36	122.80
1	6	397	A	N9-C4-C5	-6.52	103.19	105.80
1	6	608	U	C5-C4-O4	6.52	129.81	125.90
1	6	1409	G	C4-N9-C1'	6.52	134.97	126.50
1	6	1485	C	N1-C2-O2	-6.52	114.99	118.90
36	5	526	C	N3-C4-C5	6.52	124.51	121.90
36	5	1011	A	C4-C5-C6	6.52	120.26	117.00
36	5	1017	C	C6-N1-C2	-6.52	117.69	120.30
36	5	2117	A	C6-N1-C2	-6.52	114.69	118.60
36	5	3350	C	C6-N1-C2	-6.52	117.69	120.30
36	5	3383	G	C5-N7-C8	-6.52	101.04	104.30
36	1	961	C	C2-N1-C1'	6.52	125.97	118.80
36	1	1854	C	C4-C5-C6	6.52	120.66	117.40
36	1	2209	U	C5-C6-N1	6.52	125.96	122.70
36	1	3031	G	N3-C2-N2	-6.52	115.34	119.90
36	5	2125	A	C8-N9-C4	6.52	108.41	105.80
36	5	2797	C	C4-C5-C6	6.52	120.66	117.40
36	5	2876	C	N1-C2-O2	6.52	122.81	118.90
36	5	3229	G	C8-N9-C1'	-6.52	118.53	127.00
36	1	420	G	O5'-P-OP2	-6.51	99.84	105.70
36	1	1472	U	C5-C6-N1	-6.51	119.44	122.70
36	1	2168	A	C6-C5-N7	6.51	136.86	132.30
36	1	2847	A	N9-C4-C5	-6.51	103.19	105.80
1	6	754	A	C5-C6-N6	-6.51	118.49	123.70
36	5	2624	G	C5-N7-C8	-6.51	101.04	104.30
36	5	2715	A	C6-C5-N7	6.51	136.86	132.30
36	1	518	G	N3-C2-N2	-6.51	115.34	119.90
36	1	2423	U	C6-N1-C2	-6.51	117.09	121.00
1	6	68	A	C5-N7-C8	-6.51	100.64	103.90
1	6	1673	G	N3-C4-C5	6.51	131.86	128.60
36	5	999	G	C2-N3-C4	6.51	115.16	111.90
36	5	1658	G	N1-C2-N3	6.51	127.81	123.90
36	5	2645	G	C5-C6-O6	-6.51	124.69	128.60
36	1	731	U	C4-C5-C6	6.51	123.61	119.70
36	1	736	A	N1-C6-N6	-6.51	114.69	118.60
36	1	3091	A	O5'-P-OP2	-6.51	99.84	105.70
36	5	651	G	C8-N9-C1'	-6.51	118.54	127.00
36	5	1112	A	OP1-P-O3'	6.51	119.53	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1909	A	C4-C5-C6	-6.51	113.74	117.00
36	5	3164	C	O4'-C1'-N1	6.51	113.41	108.20
36	5	3316	A	OP1-P-O3'	6.51	119.53	105.20
36	1	997	A	C6-N1-C2	-6.51	114.69	118.60
36	1	2105	G	C5-C6-O6	-6.51	124.69	128.60
36	1	3054	U	C5-C4-O4	6.51	129.81	125.90
52	M6	33	ILE	CG1-CB-CG2	-6.51	97.08	111.40
1	6	913	G	N7-C8-N9	6.51	116.36	113.10
1	6	1536	G	C6-C5-N7	-6.51	126.49	130.40
36	5	388	G	C4-C5-N7	-6.51	108.20	110.80
36	5	642	U	N1-C1'-C2'	-6.51	104.84	112.00
36	1	2167	A	C2-N3-C4	-6.51	107.35	110.60
36	1	2871	G	C8-N9-C1'	6.51	135.46	127.00
1	6	165	G	C6-C5-N7	-6.51	126.50	130.40
36	5	1164	G	N1-C6-O6	-6.51	116.00	119.90
36	5	1209	G	N1-C2-N2	6.51	122.06	116.20
36	1	2677	G	C4-C5-N7	6.51	113.40	110.80
1	6	334	G	C8-N9-C4	-6.51	103.80	106.40
1	6	967	A	C4-C5-N7	6.51	113.95	110.70
36	5	650	C	C2-N1-C1'	-6.51	111.64	118.80
36	5	1010	G	C5-N7-C8	-6.51	101.05	104.30
36	5	1050	U	C5-C4-O4	6.51	129.80	125.90
36	5	2431	C	N3-C4-C5	6.51	124.50	121.90
1	2	1553	G	C8-N9-C4	6.50	109.00	106.40
36	1	2799	A	N1-C2-N3	6.50	132.55	129.30
1	6	1149	G	C2-N3-C4	-6.50	108.65	111.90
36	5	1353	U	C6-N1-C2	-6.50	117.10	121.00
1	2	1673	G	C6-C5-N7	-6.50	126.50	130.40
1	2	1773	C	N3-C4-C5	-6.50	119.30	121.90
36	1	930	U	N1-C2-O2	-6.50	118.25	122.80
36	1	1444	G	N9-C4-C5	6.50	108.00	105.40
36	1	2325	G	C5-C6-O6	-6.50	124.70	128.60
36	1	3295	A	C2-N3-C4	-6.50	107.35	110.60
37	3	75	G	N9-C4-C5	6.50	108.00	105.40
1	6	90	C	C6-N1-C2	-6.50	117.70	120.30
1	6	1128	C	OP2-P-O3'	6.50	119.51	105.20
36	5	1149	G	C4-C5-N7	6.50	113.40	110.80
36	5	1220	U	N3-C2-O2	-6.50	117.65	122.20
36	5	1372	C	C2-N3-C4	-6.50	116.65	119.90
36	5	3274	A	OP1-P-O3'	-6.50	90.89	105.20
36	5	3308	C	N1-C2-O2	6.50	122.80	118.90
37	7	43	U	C5-C6-N1	-6.50	119.45	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	33	A	O5'-P-OP1	-6.50	99.85	105.70
1	2	575	C	N3-C4-C5	6.50	124.50	121.90
1	2	1302	U	C6-N1-C2	6.50	124.90	121.00
36	1	643	U	O5'-P-OP1	6.50	118.50	110.70
36	1	2143	A	C5-C6-N6	-6.50	118.50	123.70
36	1	2511	A	C8-N9-C4	6.50	108.40	105.80
36	1	2982	A	C5-C6-N1	6.50	120.95	117.70
1	6	1471	A	C8-N9-C4	-6.50	103.20	105.80
1	6	1600	A	C5-N7-C8	-6.50	100.65	103.90
1	6	1658	G	N3-C4-C5	6.50	131.85	128.60
36	5	920	A	C4-C5-N7	6.50	113.95	110.70
36	5	2613	U	C4-C5-C6	6.50	123.60	119.70
36	5	3166	C	C2-N3-C4	6.50	123.15	119.90
36	1	3182	G	C8-N9-C4	6.50	109.00	106.40
36	5	74	G	C4-C5-N7	6.50	113.40	110.80
36	5	269	G	N3-C4-C5	6.50	131.85	128.60
36	5	322	U	C6-N1-C2	6.50	124.90	121.00
36	5	1765	U	C5-C6-N1	6.50	125.95	122.70
36	5	1887	A	N1-C2-N3	6.50	132.55	129.30
1	2	1291	G	C4-C5-C6	6.50	122.70	118.80
36	1	33	G	N9-C1'-C2'	-6.50	104.85	112.00
36	1	2714	G	N3-C4-C5	6.50	131.85	128.60
36	1	2746	A	N1-C6-N6	-6.50	114.70	118.60
1	6	1487	A	N1-C6-N6	6.50	122.50	118.60
36	5	824	C	N3-C4-C5	-6.50	119.30	121.90
36	5	2330	C	C6-N1-C2	-6.50	117.70	120.30
36	5	2391	G	C5-C6-O6	6.50	132.50	128.60
36	5	2584	G	C8-N9-C1'	-6.50	118.55	127.00
36	5	2623	G	N3-C4-N9	6.50	129.90	126.00
38	8	122	U	N3-C2-O2	-6.50	117.65	122.20
1	2	19	A	C5-N7-C8	-6.50	100.65	103.90
1	2	1654	G	C4-N9-C1'	6.50	134.94	126.50
36	1	1902	G	C5-C6-O6	6.50	132.50	128.60
36	1	2355	G	C6-C5-N7	-6.50	126.50	130.40
1	6	1160	A	N1-C6-N6	-6.50	114.70	118.60
36	5	115	A	N9-C4-C5	6.50	108.40	105.80
36	5	371	G	C5-C6-O6	6.50	132.50	128.60
36	5	783	A	C4-C5-N7	6.50	113.95	110.70
36	5	1379	G	N9-C4-C5	-6.50	102.80	105.40
36	5	2367	A	N1-C2-N3	6.50	132.55	129.30
36	5	2400	G	N3-C2-N2	-6.50	115.35	119.90
36	5	3179	U	N3-C4-C5	-6.50	110.70	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	45	C	N3-C4-C5	6.50	124.50	121.90
38	8	138	A	C5-C6-N6	6.50	128.90	123.70
36	1	2191	U	C5-C4-O4	6.50	129.80	125.90
38	4	38	U	N3-C4-O4	6.50	123.95	119.40
1	6	797	G	N7-C8-N9	-6.50	109.85	113.10
36	5	1507	G	C4-C5-N7	6.50	113.40	110.80
36	5	1695	U	O5'-P-OP2	6.50	118.49	110.70
36	5	3125	U	C6-N1-C1'	6.50	130.29	121.20
36	1	681	U	N3-C4-O4	6.49	123.95	119.40
36	1	2179	C	C2-N1-C1'	6.49	125.94	118.80
36	1	2935	U	O5'-P-OP2	-6.49	99.86	105.70
36	1	3256	G	C8-N9-C1'	-6.49	118.56	127.00
1	6	1582	U	C2-N1-C1'	6.49	125.49	117.70
36	5	1852	G	C6-C5-N7	-6.49	126.50	130.40
36	5	3069	G	C6-C5-N7	-6.49	126.50	130.40
1	2	1655	A	N3-C4-C5	6.49	131.34	126.80
36	1	608	A	C4-C5-C6	6.49	120.25	117.00
36	1	636	C	C4-C5-C6	6.49	120.65	117.40
36	1	3147	G	C6-N1-C2	-6.49	121.20	125.10
1	6	634	G	C2-N3-C4	6.49	115.15	111.90
36	5	1496	C	N3-C2-O2	-6.49	117.36	121.90
36	5	1634	G	N3-C4-C5	-6.49	125.35	128.60
36	1	316	U	C5-C6-N1	6.49	125.94	122.70
36	1	426	G	O5'-P-OP1	-6.49	99.86	105.70
36	1	1171	G	N1-C2-N3	6.49	127.79	123.90
36	1	2810	C	C2-N3-C4	6.49	123.14	119.90
36	1	2937	G	C4-N9-C1'	-6.49	118.06	126.50
36	1	3144	G	C4-C5-N7	6.49	113.40	110.80
38	4	28	C	C5-C4-N4	-6.49	115.66	120.20
1	6	96	G	C4-C5-C6	6.49	122.69	118.80
1	6	955	A	O5'-P-OP2	-6.49	99.86	105.70
1	6	1406	A	N1-C6-N6	-6.49	114.70	118.60
36	5	2110	G	N3-C4-C5	-6.49	125.36	128.60
36	5	2703	A	N3-C4-C5	-6.49	122.26	126.80
36	5	2896	A	C2-N3-C4	-6.49	107.36	110.60
44	17	151	ARG	NE-CZ-NH1	-6.49	117.06	120.30
1	2	627	C	C2-N1-C1'	6.49	125.94	118.80
1	2	1206	U	C4-C5-C6	6.49	123.59	119.70
36	1	231	G	N1-C6-O6	6.49	123.79	119.90
36	1	1795	U	C2-N1-C1'	-6.49	109.91	117.70
36	1	3131	U	OP2-P-O3'	6.49	119.47	105.20
36	1	3269	U	O5'-P-OP2	-6.49	99.86	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	989	A	C5-C6-N1	6.49	120.94	117.70
36	5	1284	C	O5'-P-OP1	-6.49	99.86	105.70
36	5	2312	A	C4-C5-N7	-6.49	107.46	110.70
18	C6	40	GLU	C-N-CA	6.49	149.24	122.00
1	6	349	U	N1-C2-O2	6.49	127.34	122.80
1	6	1546	G	C8-N9-C1'	-6.49	118.57	127.00
36	5	2772	C	OP1-P-O3'	-6.49	90.93	105.20
36	5	2937	G	N1-C6-O6	6.49	123.79	119.90
36	1	317	A	N1-C6-N6	-6.49	114.71	118.60
36	1	2368	A	N3-C4-N9	6.49	132.59	127.40
36	1	3186	A	C6-N1-C2	-6.49	114.71	118.60
36	1	3372	A	C4-C5-N7	-6.49	107.46	110.70
1	6	930	A	N1-C6-N6	-6.49	114.71	118.60
36	5	2125	A	C5-C6-N1	-6.49	114.46	117.70
36	5	2618	G	N3-C4-C5	-6.49	125.36	128.60
36	5	3026	G	N3-C4-N9	6.49	129.89	126.00
36	5	3208	G	N1-C2-N2	-6.49	110.36	116.20
36	5	3335	A	C4-C5-C6	6.49	120.24	117.00
36	1	1120	A	N3-C4-C5	-6.48	122.26	126.80
36	1	1920	U	O5'-P-OP2	-6.48	99.86	105.70
36	1	2302	G	N1-C6-O6	-6.48	116.01	119.90
36	1	2836	C	OP2-P-O3'	6.48	119.46	105.20
36	5	344	A	O5'-P-OP1	-6.48	99.86	105.70
36	5	1377	G	C4-C5-N7	-6.48	108.21	110.80
1	2	1113	A	O4'-C1'-N9	6.48	113.39	108.20
1	2	1643	U	C2-N3-C4	-6.48	123.11	127.00
36	1	635	G	OP1-P-OP2	6.48	129.32	119.60
36	1	875	G	C5-C6-N1	-6.48	108.26	111.50
36	1	2925	C	C6-N1-C1'	6.48	128.58	120.80
36	1	3277	U	C4-C5-C6	6.48	123.59	119.70
38	4	53	A	O5'-P-OP1	6.48	118.48	110.70
1	6	1546	G	C4-C5-C6	6.48	122.69	118.80
1	6	1650	U	C4-C5-C6	6.48	123.59	119.70
36	5	399	A	C8-N9-C4	-6.48	103.21	105.80
36	5	610	G	N3-C4-C5	-6.48	125.36	128.60
36	5	2395	G	N1-C2-N3	6.48	127.79	123.90
36	5	2434	U	C5-C4-O4	6.48	129.79	125.90
36	5	3136	G	C6-C5-N7	-6.48	126.51	130.40
38	8	102	U	N1-C2-O2	6.48	127.34	122.80
1	2	548	G	C8-N9-C4	-6.48	103.81	106.40
1	2	968	U	N3-C2-O2	-6.48	117.66	122.20
36	1	45	A	C8-N9-C4	-6.48	103.21	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2895	G	C6-C5-N7	-6.48	126.51	130.40
36	1	3086	A	C6-N1-C2	-6.48	114.71	118.60
36	5	1405	U	C2-N1-C1'	-6.48	109.92	117.70
36	5	1405	U	N1-C2-N3	6.48	118.79	114.90
36	5	3381	U	C5-C6-N1	-6.48	119.46	122.70
36	1	647	A	C4-C5-C6	6.48	120.24	117.00
36	1	969	C	C4-C5-C6	6.48	120.64	117.40
36	5	1114	U	N1-C2-N3	6.48	118.79	114.90
36	5	1597	C	C5-C6-N1	6.48	124.24	121.00
36	5	1620	U	N3-C2-O2	-6.48	117.67	122.20
1	2	930	A	N1-C6-N6	-6.48	114.71	118.60
36	1	419	G	C5-N7-C8	6.48	107.54	104.30
36	1	1297	C	C6-N1-C2	-6.48	117.71	120.30
36	1	1344	G	C4-N9-C1'	-6.48	118.08	126.50
36	1	2875	U	N3-C4-O4	6.48	123.93	119.40
1	6	1759	C	C4-C5-C6	6.48	120.64	117.40
36	5	2364	G	C6-C5-N7	-6.48	126.51	130.40
36	5	2621	G	O5'-P-OP1	6.48	118.47	110.70
36	5	2693	C	C5-C6-N1	-6.48	117.76	121.00
36	5	3078	U	C6-N1-C2	-6.48	117.11	121.00
37	7	113	C	C5-C6-N1	-6.48	117.76	121.00
70	o4	78	GLY	N-CA-C	-6.48	96.91	113.10
1	2	555	A	C6-N1-C2	-6.48	114.72	118.60
36	1	344	A	C2-N3-C4	-6.48	107.36	110.60
1	6	1473	U	C5-C6-N1	-6.48	119.46	122.70
36	5	1350	A	N7-C8-N9	6.48	117.04	113.80
36	5	2794	G	O5'-P-OP1	-6.48	99.87	105.70
1	2	1142	A	N1-C6-N6	-6.47	114.72	118.60
36	1	113	C	N3-C2-O2	6.47	126.43	121.90
36	1	953	G	N3-C4-C5	6.47	131.84	128.60
36	1	2274	U	N3-C2-O2	-6.47	117.67	122.20
36	1	2627	C	C4-C5-C6	6.47	120.64	117.40
36	1	2922	G	C6-N1-C2	-6.47	121.22	125.10
1	6	359	A	C8-N9-C1'	6.47	139.35	127.70
1	6	1616	G	C8-N9-C4	-6.47	103.81	106.40
17	c5	124	THR	C-N-CD	-6.47	106.36	120.60
36	5	1101	G	N1-C6-O6	-6.47	116.02	119.90
36	5	1289	G	C5-C6-N1	6.47	114.74	111.50
36	5	1507	G	C6-C5-N7	-6.47	126.52	130.40
36	5	2829	U	N3-C2-O2	6.47	126.73	122.20
36	5	3254	G	C5-C6-N1	-6.47	108.26	111.50
1	2	331	A	C4-C5-N7	-6.47	107.46	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	969	C	N3-C2-O2	-6.47	117.37	121.90
1	2	1273	G	OP1-P-O3'	6.47	119.44	105.20
36	1	715	A	O4'-C1'-N9	6.47	113.38	108.20
36	1	2185	G	C4-C5-C6	6.47	122.68	118.80
36	1	2368	A	OP2-P-O3'	6.47	119.44	105.20
36	1	2619	G	C5-C6-N1	6.47	114.74	111.50
36	1	3031	G	C6-C5-N7	6.47	134.28	130.40
36	5	558	U	C5-C6-N1	-6.47	119.46	122.70
36	5	1487	G	C4-C5-C6	6.47	122.68	118.80
36	5	1846	C	OP1-P-OP2	-6.47	109.89	119.60
36	5	2793	G	C8-N9-C1'	6.47	135.41	127.00
36	5	2864	A	N9-C4-C5	-6.47	103.21	105.80
36	5	3015	G	N3-C4-C5	6.47	131.84	128.60
36	1	427	C	C2-N1-C1'	6.47	125.92	118.80
36	1	818	C	OP1-P-OP2	-6.47	109.89	119.60
36	1	1695	U	N1-C2-O2	6.47	127.33	122.80
36	5	1239	C	C2-N1-C1'	6.47	125.92	118.80
36	5	1387	G	OP1-P-OP2	6.47	129.31	119.60
36	5	2199	G	N3-C4-N9	6.47	129.88	126.00
36	1	1050	U	N1-C2-O2	6.47	127.33	122.80
36	1	1161	G	N3-C4-N9	6.47	129.88	126.00
36	1	2814	G	N9-C4-C5	6.47	107.99	105.40
38	4	33	A	O5'-P-OP2	6.47	118.46	110.70
1	6	120	U	C6-N1-C2	-6.47	117.12	121.00
1	6	973	A	N7-C8-N9	-6.47	110.56	113.80
1	6	1630	U	OP1-P-O3'	6.47	119.43	105.20
1	6	1668	G	O5'-P-OP1	6.47	118.46	110.70
36	5	2303	A	C5-N7-C8	-6.47	100.67	103.90
36	5	2363	A	C4-C5-N7	-6.47	107.47	110.70
36	5	2401	A	C8-N9-C4	-6.47	103.21	105.80
36	5	2609	A	N1-C6-N6	6.47	122.48	118.60
36	5	2659	G	N9-C4-C5	-6.47	102.81	105.40
36	5	3307	A	N9-C4-C5	-6.47	103.21	105.80
36	1	614	C	O4'-C1'-N1	6.47	113.37	108.20
36	1	857	G	C5-C6-N1	-6.47	108.27	111.50
36	1	3009	G	N1-C6-O6	6.47	123.78	119.90
36	1	3176	G	C6-C5-N7	-6.47	126.52	130.40
1	6	1223	A	C8-N9-C4	-6.47	103.21	105.80
1	6	1547	A	C5-N7-C8	-6.47	100.67	103.90
1	6	1765	A	N1-C6-N6	-6.47	114.72	118.60
36	5	2186	U	N3-C2-O2	-6.47	117.67	122.20
37	7	84	A	O5'-P-OP2	6.47	118.46	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	377	A	C5-C6-N6	-6.47	118.53	123.70
36	1	935	U	N3-C2-O2	-6.47	117.67	122.20
36	1	1170	A	N9-C4-C5	-6.47	103.21	105.80
36	1	2933	A	N1-C6-N6	6.47	122.48	118.60
36	1	3172	A	N3-C4-C5	-6.47	122.27	126.80
37	3	89	G	C5-C6-O6	-6.47	124.72	128.60
1	6	1029	U	C5-C6-N1	-6.47	119.47	122.70
36	5	136	G	N1-C6-O6	6.47	123.78	119.90
36	5	868	C	N3-C2-O2	6.47	126.43	121.90
36	5	922	U	C5-C4-O4	6.47	129.78	125.90
36	5	2911	A	N1-C2-N3	6.47	132.53	129.30
36	5	2954	U	OP1-P-O3'	6.47	119.42	105.20
37	7	1	G	N3-C4-C5	-6.47	125.37	128.60
38	8	115	C	C5-C6-N1	-6.47	117.77	121.00
36	1	217	U	C5-C6-N1	6.46	125.93	122.70
36	1	1180	A	C5-C6-N6	6.46	128.87	123.70
36	1	1798	A	N1-C2-N3	6.46	132.53	129.30
36	1	1858	A	C5-C6-N1	6.46	120.93	117.70
36	1	3142	A	C6-C5-N7	6.46	136.82	132.30
36	5	1038	C	N3-C2-O2	-6.46	117.38	121.90
36	5	3126	C	O5'-P-OP2	-6.46	99.88	105.70
36	1	9	U	C5-C6-N1	-6.46	119.47	122.70
36	1	906	A	N3-C4-C5	-6.46	122.28	126.80
36	1	1380	G	O5'-P-OP2	-6.46	99.88	105.70
36	1	2172	A	C4-C5-N7	6.46	113.93	110.70
36	5	2849	C	OP2-P-O3'	6.46	119.42	105.20
36	1	1142	G	C4-C5-N7	6.46	113.39	110.80
1	6	163	G	C8-N9-C1'	6.46	135.40	127.00
36	5	1152	G	N1-C6-O6	6.46	123.78	119.90
36	5	2248	C	C2-N1-C1'	-6.46	111.69	118.80
52	m6	4	GLU	N-CA-C	-6.46	93.56	111.00
1	6	1380	U	N3-C4-O4	6.46	123.92	119.40
36	5	1851	G	C4-C5-N7	6.46	113.38	110.80
36	5	3030	G	C8-N9-C4	6.46	108.98	106.40
1	2	1200	G	N3-C4-C5	-6.46	125.37	128.60
36	1	95	A	N1-C6-N6	-6.46	114.72	118.60
36	1	662	U	C6-N1-C1'	-6.46	112.16	121.20
36	1	953	G	C4-C5-C6	-6.46	114.92	118.80
36	1	1794	G	C5-N7-C8	6.46	107.53	104.30
36	1	2399	A	C6-N1-C2	-6.46	114.72	118.60
36	1	2402	A	N1-C6-N6	-6.46	114.72	118.60
36	1	3040	A	C4-C5-N7	-6.46	107.47	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3270	U	C5-C6-N1	-6.46	119.47	122.70
1	6	1157	A	C8-N9-C4	-6.46	103.22	105.80
1	6	1523	G	N3-C4-N9	6.46	129.88	126.00
1	6	1537	C	OP1-P-OP2	-6.46	109.91	119.60
36	5	559	A	C4-C5-C6	6.46	120.23	117.00
36	5	777	U	O5'-P-OP1	-6.46	99.89	105.70
36	5	1947	G	N3-C4-N9	6.46	129.88	126.00
36	1	1182	A	O5'-P-OP1	-6.46	99.89	105.70
36	1	1306	G	C4-C5-C6	6.46	122.67	118.80
36	1	1547	G	C4-N9-C1'	6.46	134.89	126.50
1	6	58	U	O5'-P-OP2	6.46	118.45	110.70
1	6	1048	G	C8-N9-C4	6.46	108.98	106.40
1	6	1403	C	C5-C6-N1	-6.46	117.77	121.00
1	6	1792	G	C5-C6-N1	6.46	114.73	111.50
36	5	609	G	N1-C6-O6	6.46	123.77	119.90
36	5	651	G	N1-C2-N2	-6.46	110.39	116.20
36	5	1137	C	C2-N1-C1'	6.46	125.90	118.80
36	5	1158	A	C8-N9-C4	6.46	108.38	105.80
36	5	1377	G	N1-C6-O6	-6.46	116.03	119.90
36	5	2880	U	N3-C4-O4	-6.46	114.88	119.40
36	5	3077	A	C2-N3-C4	-6.46	107.37	110.60
36	5	3136	G	N9-C4-C5	-6.46	102.82	105.40
38	8	52	A	C6-N1-C2	-6.46	114.73	118.60
1	2	579	A	C5-C6-N1	6.46	120.93	117.70
37	3	99	G	C6-C5-N7	6.46	134.27	130.40
1	6	170	U	N3-C2-O2	-6.46	117.68	122.20
36	5	1183	C	C5-C4-N4	-6.46	115.68	120.20
36	5	1953	G	C8-N9-C4	6.46	108.98	106.40
36	5	2173	U	OP2-P-O3'	6.46	119.40	105.20
36	5	2945	G	O4'-C1'-N9	6.46	113.36	108.20
36	5	3379	C	C6-N1-C2	6.46	122.88	120.30
1	2	1281	G	O5'-P-OP1	-6.45	99.89	105.70
36	1	1920	U	N3-C2-O2	-6.45	117.68	122.20
36	1	2289	U	N1-C2-N3	6.45	118.77	114.90
36	1	2352	A	C5-C6-N1	6.45	120.93	117.70
36	1	2405	C	C4-C5-C6	6.45	120.63	117.40
1	6	1765	A	C2-N3-C4	-6.45	107.37	110.60
36	5	92	G	N9-C4-C5	-6.45	102.82	105.40
36	5	608	A	C4-C5-C6	6.45	120.23	117.00
36	5	1484	U	N3-C2-O2	6.45	126.72	122.20
36	5	2395	G	C2-N3-C4	-6.45	108.67	111.90
36	5	2940	A	C5-C6-N6	-6.45	118.54	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1650	U	N1-C2-O2	-6.45	118.28	122.80
36	5	752	C	C4-C5-C6	6.45	120.63	117.40
36	5	822	G	C6-C5-N7	-6.45	126.53	130.40
36	5	888	A	C2-N3-C4	-6.45	107.37	110.60
36	5	1910	A	C6-C5-N7	-6.45	127.78	132.30
36	1	222	A	O5'-P-OP2	-6.45	99.89	105.70
36	1	970	A	OP2-P-O3'	6.45	119.39	105.20
36	1	2315	G	N3-C2-N2	-6.45	115.39	119.90
36	1	2720	G	C5-C6-O6	-6.45	124.73	128.60
36	1	3180	A	C2-N3-C4	-6.45	107.38	110.60
36	1	3391	A	OP1-P-OP2	6.45	129.28	119.60
36	5	923	C	C2-N3-C4	-6.45	116.67	119.90
36	5	1867	A	N1-C2-N3	6.45	132.53	129.30
36	5	2955	U	OP2-P-O3'	6.45	119.39	105.20
36	1	2641	U	C6-N1-C2	6.45	124.87	121.00
36	1	3123	A	C5-C6-N1	6.45	120.92	117.70
57	N1	20	ARG	NE-CZ-NH1	-6.45	117.08	120.30
1	6	1201	G	C8-N9-C4	6.45	108.98	106.40
36	5	1172	G	N1-C2-N3	6.45	127.77	123.90
36	5	1175	C	OP1-P-OP2	6.45	129.27	119.60
36	5	2119	A	C5-C6-N6	-6.45	118.54	123.70
36	5	2874	G	C6-C5-N7	-6.45	126.53	130.40
36	5	3150	A	C6-C5-N7	-6.45	127.79	132.30
37	7	115	G	C5-C6-N1	6.45	114.72	111.50
36	1	2978	U	N1-C2-N3	6.45	118.77	114.90
36	1	3202	G	N9-C4-C5	-6.45	102.82	105.40
36	5	346	C	OP2-P-O3'	6.45	119.38	105.20
36	5	2308	C	N3-C2-O2	6.45	126.41	121.90
36	1	1834	U	N1-C2-O2	-6.45	118.29	122.80
36	1	2339	C	O5'-P-OP2	-6.45	99.90	105.70
36	1	2351	U	N1-C2-N3	6.45	118.77	114.90
36	1	2794	G	C2-N3-C4	6.45	115.12	111.90
1	6	21	U	C4-C5-C6	6.45	123.57	119.70
1	6	179	A	N3-C4-C5	-6.45	122.29	126.80
36	5	61	A	C2-N3-C4	-6.45	107.38	110.60
36	5	851	C	N1-C2-N3	-6.45	114.69	119.20
36	5	1114	U	C5-C4-O4	6.45	129.77	125.90
36	5	2689	A	O4'-C1'-N9	6.45	113.36	108.20
36	5	3269	U	N3-C2-O2	6.45	126.71	122.20
1	2	424	C	N1-C2-O2	6.44	122.77	118.90
1	2	1670	G	C4-C5-C6	6.44	122.67	118.80
36	1	1440	G	C2-N3-C4	-6.44	108.68	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	36	C	N1-C2-N3	-6.44	114.69	119.20
1	6	1331	A	N9-C4-C5	6.44	108.38	105.80
36	5	1437	C	C2-N1-C1'	6.44	125.89	118.80
36	5	2358	A	C4-N9-C1'	-6.44	114.70	126.30
36	5	2420	C	C5-C4-N4	-6.44	115.69	120.20
36	1	1602	A	N7-C8-N9	-6.44	110.58	113.80
36	1	2174	G	C4-C5-N7	6.44	113.38	110.80
36	1	2403	G	C6-C5-N7	-6.44	126.53	130.40
36	1	2840	C	C4-C5-C6	6.44	120.62	117.40
1	6	1272	U	C4-C5-C6	6.44	123.56	119.70
36	5	890	C	C6-N1-C1'	-6.44	113.07	120.80
36	5	1680	G	C4-N9-C1'	6.44	134.88	126.50
36	5	2354	C	C6-N1-C1'	6.44	128.53	120.80
36	5	2988	C	C6-N1-C1'	-6.44	113.07	120.80
36	5	3280	U	N3-C4-C5	6.44	118.47	114.60
1	2	402	C	OP1-P-OP2	-6.44	109.94	119.60
1	6	1099	U	C2-N1-C1'	6.44	125.43	117.70
36	5	423	A	C6-C5-N7	-6.44	127.79	132.30
36	5	938	C	N1-C2-N3	-6.44	114.69	119.20
36	5	947	G	C6-C5-N7	-6.44	126.53	130.40
36	5	1386	A	C5-N7-C8	-6.44	100.68	103.90
36	5	2235	C	N3-C4-C5	-6.44	119.32	121.90
36	5	2856	G	C6-C5-N7	-6.44	126.54	130.40
36	5	3041	U	O5'-P-OP2	-6.44	99.90	105.70
36	5	3081	C	N3-C2-O2	6.44	126.41	121.90
36	5	3271	G	N9-C4-C5	-6.44	102.82	105.40
38	8	109	A	O5'-P-OP2	-6.44	99.90	105.70
36	1	371	G	N1-C6-O6	-6.44	116.04	119.90
36	1	1853	U	C6-N1-C2	-6.44	117.14	121.00
36	5	1857	C	O5'-P-OP2	-6.44	99.91	105.70
36	1	148	G	N3-C4-C5	-6.44	125.38	128.60
36	1	1166	G	C6-C5-N7	-6.44	126.54	130.40
38	4	103	G	C4-N9-C1'	6.44	134.87	126.50
1	6	26	A	C5-C6-N6	-6.44	118.55	123.70
36	5	682	U	C2-N1-C1'	-6.44	109.97	117.70
36	5	1435	A	C8-N9-C4	-6.44	103.22	105.80
36	5	2666	C	O5'-P-OP2	-6.44	99.91	105.70
38	8	12	A	N3-C4-N9	6.44	132.55	127.40
1	6	1037	C	C4-C5-C6	6.44	120.62	117.40
36	5	953	G	N1-C6-O6	-6.44	116.04	119.90
36	5	1666	G	N1-C6-O6	6.44	123.76	119.90
1	2	1757	G	C8-N9-C1'	-6.43	118.64	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1534	A	C5-N7-C8	-6.43	100.68	103.90
36	1	2620	G	N3-C2-N2	-6.43	115.40	119.90
36	1	2804	A	C6-N1-C2	-6.43	114.74	118.60
36	1	2812	C	OP1-P-O3'	6.43	119.36	105.20
1	6	297	U	C6-N1-C2	-6.43	117.14	121.00
1	6	797	G	C4-C5-C6	-6.43	114.94	118.80
36	5	40	A	OP1-P-OP2	6.43	129.25	119.60
36	5	994	G	N7-C8-N9	-6.43	109.88	113.10
36	5	1470	U	C5-C6-N1	6.43	125.92	122.70
36	5	1607	U	N3-C4-C5	-6.43	110.74	114.60
36	5	2384	A	C2-N3-C4	6.43	113.82	110.60
1	2	1302	U	C5-C4-O4	-6.43	122.04	125.90
36	1	747	A	O5'-P-OP1	-6.43	99.91	105.70
36	1	2406	C	O5'-P-OP2	-6.43	99.91	105.70
1	6	57	G	N3-C4-C5	-6.43	125.38	128.60
1	6	1138	A	C8-N9-C4	6.43	108.37	105.80
1	6	1796	C	C6-N1-C1'	-6.43	113.08	120.80
36	5	353	G	N3-C4-C5	6.43	131.82	128.60
36	5	503	C	C4-C5-C6	6.43	120.62	117.40
36	5	1124	U	N3-C2-O2	-6.43	117.70	122.20
36	5	1881	A	N1-C2-N3	6.43	132.52	129.30
36	1	595	G	N3-C4-C5	-6.43	125.39	128.60
36	1	2238	G	C8-N9-C1'	6.43	135.36	127.00
36	1	3288	G	N3-C4-N9	-6.43	122.14	126.00
1	6	1408	G	C5-C6-N1	-6.43	108.28	111.50
36	5	1653	G	N3-C4-N9	-6.43	122.14	126.00
36	5	1654	A	N1-C6-N6	-6.43	114.74	118.60
36	5	2754	G	C6-N1-C2	-6.43	121.24	125.10
36	5	3315	G	C8-N9-C4	-6.43	103.83	106.40
36	5	3385	U	C4-C5-C6	6.43	123.56	119.70
36	1	1328	C	N3-C2-O2	6.43	126.40	121.90
36	1	1484	U	P-O3'-C3'	6.43	127.42	119.70
36	1	2917	G	C5-N7-C8	6.43	107.51	104.30
36	1	3214	U	C6-N1-C2	-6.43	117.14	121.00
1	6	1414	U	C2-N1-C1'	6.43	125.42	117.70
36	5	607	A	C6-N1-C2	-6.43	114.74	118.60
36	5	728	G	C6-C5-N7	-6.43	126.54	130.40
36	5	742	G	N3-C4-C5	-6.43	125.39	128.60
36	5	1127	G	C4-C5-C6	6.43	122.66	118.80
36	5	1219	C	C6-N1-C2	6.43	122.87	120.30
36	5	3085	G	C5-N7-C8	6.43	107.52	104.30
37	7	57	G	C5-C6-N1	6.43	114.72	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	82	U	N1-C2-O2	6.43	127.30	122.80
1	2	1141	G	C8-N9-C4	6.43	108.97	106.40
36	1	224	C	N3-C4-N4	6.43	122.50	118.00
36	1	2811	A	N7-C8-N9	6.43	117.01	113.80
1	6	1122	G	N3-C4-N9	6.43	129.86	126.00
36	5	1043	C	C5-C6-N1	-6.43	117.79	121.00
36	5	1103	A	O5'-P-OP1	6.43	118.41	110.70
36	5	3332	U	C2-N1-C1'	-6.43	109.99	117.70
36	1	2681	U	N3-C2-O2	-6.43	117.70	122.20
36	1	2714	G	C8-N9-C1'	6.43	135.35	127.00
36	1	3221	C	C6-N1-C2	-6.43	117.73	120.30
1	6	43	A	C5-C6-N6	-6.43	118.56	123.70
1	6	1172	G	C6-C5-N7	6.43	134.26	130.40
36	5	644	G	N9-C4-C5	6.43	107.97	105.40
36	5	3030	G	N7-C8-N9	-6.43	109.89	113.10
36	1	365	A	N9-C4-C5	6.42	108.37	105.80
36	1	870	G	C4-C5-N7	-6.42	108.23	110.80
36	1	936	A	C4-C5-C6	-6.42	113.79	117.00
36	1	1107	C	C5-C4-N4	-6.42	115.70	120.20
36	1	2433	U	C2-N1-C1'	6.42	125.41	117.70
36	1	2962	U	N1-C2-O2	6.42	127.30	122.80
38	4	74	U	C5-C4-O4	-6.42	122.05	125.90
1	6	1512	G	C4-C5-N7	6.42	113.37	110.80
1	6	1727	G	C8-N9-C4	6.42	108.97	106.40
1	6	1777	G	N1-C6-O6	6.42	123.75	119.90
36	5	512	U	C2-N1-C1'	-6.42	109.99	117.70
36	5	523	A	N1-C2-N3	6.42	132.51	129.30
36	5	1608	C	C6-N1-C1'	-6.42	113.09	120.80
36	5	1917	C	O5'-P-OP1	6.42	118.41	110.70
36	5	2288	G	C6-C5-N7	-6.42	126.55	130.40
36	5	2855	U	C5-C6-N1	-6.42	119.49	122.70
36	1	360	G	C8-N9-C4	-6.42	103.83	106.40
36	1	1222	G	C8-N9-C4	6.42	108.97	106.40
36	1	2377	G	C6-N1-C2	-6.42	121.25	125.10
1	6	1140	G	N3-C4-N9	6.42	129.85	126.00
36	5	788	C	N1-C2-O2	-6.42	115.05	118.90
36	5	1284	C	C6-N1-C2	-6.42	117.73	120.30
1	2	1729	C	O5'-P-OP2	-6.42	99.92	105.70
36	1	664	U	N3-C4-O4	6.42	123.89	119.40
36	1	1204	A	N3-C4-N9	-6.42	122.26	127.40
36	1	1357	G	C6-C5-N7	-6.42	126.55	130.40
36	1	2634	U	C4-C5-C6	6.42	123.55	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2672	G	C5-C6-N1	6.42	114.71	111.50
1	6	78	A	C8-N9-C4	-6.42	103.23	105.80
1	6	781	U	C2-N1-C1'	6.42	125.41	117.70
1	6	1070	C	C6-N1-C2	6.42	122.87	120.30
1	6	1142	A	C5-C6-N1	6.42	120.91	117.70
36	5	586	C	C6-N1-C2	-6.42	117.73	120.30
36	5	1603	A	C8-N9-C1'	-6.42	116.14	127.70
36	5	1792	C	O5'-P-OP1	-6.42	99.92	105.70
36	5	2916	U	OP1-P-O3'	6.42	119.33	105.20
36	1	880	G	N3-C4-C5	6.42	131.81	128.60
36	1	2154	U	N1-C2-O2	-6.42	118.31	122.80
36	1	2659	G	C4-C5-N7	6.42	113.37	110.80
38	4	98	U	C4-C5-C6	6.42	123.55	119.70
1	6	913	G	C6-C5-N7	-6.42	126.55	130.40
36	5	420	G	C5-C6-N1	-6.42	108.29	111.50
36	5	2382	G	N9-C4-C5	6.42	107.97	105.40
36	5	2856	G	C4-C5-C6	6.42	122.65	118.80
36	5	3074	G	C8-N9-C4	6.42	108.97	106.40
37	7	13	A	C5-N7-C8	-6.42	100.69	103.90
38	8	15	G	N1-C2-N3	6.42	127.75	123.90
36	1	712	G	N7-C8-N9	-6.42	109.89	113.10
36	1	1140	G	C6-C5-N7	-6.42	126.55	130.40
36	1	1534	A	N1-C6-N6	6.42	122.45	118.60
36	1	2162	U	C2-N3-C4	-6.42	123.15	127.00
36	1	3079	U	C5-C4-O4	6.42	129.75	125.90
1	6	999	U	C5-C4-O4	-6.42	122.05	125.90
1	6	1127	G	N9-C4-C5	-6.42	102.83	105.40
1	6	1610	G	OP1-P-OP2	6.42	129.23	119.60
36	5	675	C	N3-C4-N4	6.42	122.49	118.00
36	5	1507	G	O4'-C1'-N9	-6.42	103.06	108.20
36	5	2355	G	C4-C5-N7	6.42	113.37	110.80
36	5	3187	A	N7-C8-N9	-6.42	110.59	113.80
36	5	3310	A	C6-C5-N7	-6.42	127.81	132.30
37	7	9	C	C5-C6-N1	6.42	124.21	121.00
37	7	85	G	C6-C5-N7	-6.42	126.55	130.40
36	1	650	C	O4'-C1'-N1	-6.42	103.07	108.20
36	1	1059	G	O5'-P-OP1	-6.42	99.93	105.70
1	6	1633	A	C2-N3-C4	-6.42	107.39	110.60
2	s0	146	LEU	CA-CB-CG	6.42	130.06	115.30
36	5	968	G	N9-C4-C5	-6.42	102.83	105.40
36	5	2285	C	N3-C4-N4	-6.42	113.51	118.00
36	5	2728	G	O4'-C1'-N9	6.42	113.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1436	A	O5'-P-OP1	-6.42	99.93	105.70
1	2	1550	A	C4-C5-N7	6.42	113.91	110.70
36	1	1377	G	C8-N9-C4	6.42	108.97	106.40
36	5	2242	A	N1-C2-N3	6.42	132.51	129.30
36	5	3053	G	C4-C5-N7	-6.42	108.23	110.80
36	1	663	C	N1-C2-O2	-6.41	115.05	118.90
36	1	675	C	N3-C2-O2	-6.41	117.41	121.90
36	1	965	A	C6-N1-C2	-6.41	114.75	118.60
36	1	1392	G	C6-C5-N7	6.41	134.25	130.40
36	1	2156	C	N3-C4-C5	6.41	124.47	121.90
36	1	2372	A	N3-C4-C5	-6.41	122.31	126.80
36	1	3110	C	O5'-P-OP2	6.41	118.40	110.70
1	6	72	A	C2-N3-C4	6.41	113.81	110.60
1	6	469	C	N1-C2-O2	6.41	122.75	118.90
1	6	761	G	C4-C5-N7	-6.41	108.23	110.80
1	6	943	C	C4-C5-C6	-6.41	114.19	117.40
36	5	974	G	C4-N9-C1'	6.41	134.84	126.50
36	5	3337	G	N3-C4-C5	-6.41	125.39	128.60
36	1	376	G	N9-C4-C5	6.41	107.97	105.40
36	1	645	A	N9-C4-C5	6.41	108.36	105.80
1	6	1753	A	N7-C8-N9	6.41	117.01	113.80
36	5	827	A	C5-C6-N1	6.41	120.91	117.70
1	2	1119	G	N1-C2-N3	6.41	127.75	123.90
35	SM	167	PRO	N-CA-CB	6.41	110.99	103.30
36	1	691	A	C5-C6-N1	-6.41	114.50	117.70
36	1	962	A	N9-C4-C5	6.41	108.36	105.80
36	1	1493	G	C6-C5-N7	6.41	134.25	130.40
36	1	1867	A	N1-C6-N6	6.41	122.45	118.60
36	1	2406	C	N3-C4-N4	6.41	122.49	118.00
37	3	82	G	C4-N9-C1'	6.41	134.84	126.50
1	6	340	U	N3-C4-C5	-6.41	110.75	114.60
1	6	1116	A	C6-C5-N7	-6.41	127.81	132.30
36	5	56	G	N1-C6-O6	-6.41	116.05	119.90
36	5	350	C	C2-N1-C1'	6.41	125.85	118.80
36	5	1658	G	C8-N9-C4	-6.41	103.84	106.40
36	5	2166	A	C8-N9-C4	6.41	108.36	105.80
36	5	2426	U	N1-C2-N3	6.41	118.75	114.90
36	5	3332	U	OP2-P-O3'	6.41	119.31	105.20
37	7	97	A	N3-C4-C5	-6.41	122.31	126.80
36	1	978	G	C4-N9-C1'	-6.41	118.17	126.50
36	1	2270	A	C4-C5-N7	6.41	113.90	110.70
36	5	1146	C	C5-C4-N4	-6.41	115.72	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1300	G	C4-C5-C6	6.41	122.64	118.80
36	5	1654	A	C4-C5-N7	-6.41	107.50	110.70
36	5	2149	A	N7-C8-N9	-6.41	110.59	113.80
36	5	3092	C	O5'-P-OP2	-6.41	99.93	105.70
1	2	1399	C	N1-C2-O2	6.41	122.74	118.90
1	2	1579	U	N3-C2-O2	-6.41	117.72	122.20
36	1	1716	U	P-O3'-C3'	6.41	127.39	119.70
1	6	1148	C	N3-C4-N4	-6.41	113.52	118.00
1	2	756	A	C8-N9-C4	-6.41	103.24	105.80
1	2	1011	G	N3-C4-C5	-6.41	125.40	128.60
36	1	674	G	OP1-P-OP2	-6.41	109.99	119.60
36	1	1377	G	C4-C5-N7	6.41	113.36	110.80
1	6	794	U	N1-C1'-C2'	6.41	122.33	114.00
1	6	1449	U	N3-C4-C5	-6.41	110.76	114.60
36	5	2621	G	N1-C6-O6	6.41	123.74	119.90
57	n1	151	LEU	CB-CG-CD2	-6.41	100.11	111.00
36	1	2381	G	N1-C2-N3	6.40	127.74	123.90
1	6	617	U	C6-N1-C2	-6.40	117.16	121.00
36	5	384	A	C6-C5-N7	-6.40	127.82	132.30
36	5	994	G	OP2-P-O3'	-6.40	91.11	105.20
36	5	3268	A	N1-C2-N3	6.40	132.50	129.30
36	5	3329	U	N3-C2-O2	-6.40	117.72	122.20
47	m0	90	ARG	NE-CZ-NH1	-6.40	117.10	120.30
1	2	344	A	C8-N9-C4	6.40	108.36	105.80
36	1	293	C	C4-C5-C6	6.40	120.60	117.40
36	1	577	C	C4-C5-C6	6.40	120.60	117.40
36	1	2285	C	C6-N1-C2	6.40	122.86	120.30
36	1	2517	U	OP1-P-O3'	6.40	119.29	105.20
1	6	808	U	N3-C4-C5	-6.40	110.76	114.60
36	5	2645	G	C6-N1-C2	-6.40	121.26	125.10
36	5	3390	G	C2-N3-C4	-6.40	108.70	111.90
37	7	39	C	C2-N1-C1'	6.40	125.84	118.80
37	7	73	C	O5'-P-OP1	-6.40	99.94	105.70
1	2	298	C	C4-C5-C6	-6.40	114.20	117.40
1	2	1245	G	N3-C4-C5	-6.40	125.40	128.60
36	1	573	C	C5-C6-N1	-6.40	117.80	121.00
36	1	637	C	C5'-C4'-O4'	-6.40	101.42	109.10
36	1	1499	C	O5'-P-OP1	6.40	118.38	110.70
36	1	2851	A	C5-C6-N1	-6.40	114.50	117.70
36	1	2941	A	O4'-C1'-N9	-6.40	103.08	108.20
36	1	3060	C	N3-C4-C5	6.40	124.46	121.90
37	3	55	A	C4-C5-C6	6.40	120.20	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	2	A	C8-N9-C4	-6.40	103.24	105.80
1	6	1000	C	C2-N3-C4	-6.40	116.70	119.90
36	5	1487	G	C4-N9-C1'	6.40	134.82	126.50
36	5	1882	G	C5-N7-C8	-6.40	101.10	104.30
36	5	2288	G	N9-C4-C5	-6.40	102.84	105.40
36	5	2818	U	OP2-P-O3'	6.40	119.28	105.20
36	5	2923	U	C5-C4-O4	-6.40	122.06	125.90
36	5	3011	A	N1-C6-N6	6.40	122.44	118.60
38	4	24	G	C4-C5-C6	6.40	122.64	118.80
1	6	1182	U	N3-C2-O2	-6.40	117.72	122.20
36	5	826	G	C8-N9-C4	6.40	108.96	106.40
36	5	3009	G	O4'-C1'-N9	6.40	113.32	108.20
38	8	1	A	N9-C4-C5	6.40	108.36	105.80
1	2	206	A	C2-N3-C4	-6.40	107.40	110.60
36	1	120	G	N3-C4-C5	-6.40	125.40	128.60
36	1	1121	U	C5-C6-N1	-6.40	119.50	122.70
36	1	1212	A	C5-C6-N1	6.40	120.90	117.70
1	6	389	G	N1-C2-N2	6.40	121.96	116.20
1	6	864	U	N1-C2-N3	6.40	118.74	114.90
1	6	1139	A	C4-C5-N7	6.40	113.90	110.70
1	6	1303	U	C2-N1-C1'	-6.40	110.02	117.70
1	6	1523	G	C4-N9-C1'	6.40	134.82	126.50
1	6	1655	A	N7-C8-N9	6.40	117.00	113.80
36	5	1848	G	C5-C6-O6	-6.40	124.76	128.60
1	2	994	G	C5-N7-C8	6.40	107.50	104.30
49	M3	172	LEU	CA-CB-CG	-6.40	100.59	115.30
36	5	423	A	N3-C4-C5	-6.40	122.32	126.80
36	5	658	G	O5'-P-OP1	-6.40	99.94	105.70
36	5	1443	G	N3-C4-N9	-6.40	122.16	126.00
36	5	2931	C	N1-C2-N3	-6.40	114.72	119.20
1	2	1600	A	C5-C6-N6	-6.39	118.58	123.70
36	1	416	A	N1-C6-N6	6.39	122.44	118.60
36	1	869	G	C8-N9-C4	6.39	108.96	106.40
36	1	1001	G	N9-C4-C5	-6.39	102.84	105.40
36	1	1349	G	N3-C4-N9	6.39	129.84	126.00
36	1	2843	U	N3-C2-O2	-6.39	117.72	122.20
38	4	26	U	C2-N3-C4	6.39	130.84	127.00
1	6	136	C	C2-N1-C1'	6.39	125.83	118.80
1	6	267	U	N3-C4-C5	-6.39	110.76	114.60
1	6	437	A	C8-N9-C4	6.39	108.36	105.80
1	6	583	C	C2-N3-C4	6.39	123.10	119.90
36	5	1939	G	N1-C2-N2	-6.39	110.44	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2978	U	OP1-P-O3'	6.39	119.27	105.20
1	2	827	C	C6-N1-C2	-6.39	117.74	120.30
36	1	513	G	O5'-P-OP1	6.39	118.37	110.70
36	1	1367	G	N3-C2-N2	-6.39	115.42	119.90
36	1	2904	U	C2-N3-C4	-6.39	123.17	127.00
36	1	3331	U	C5-C4-O4	6.39	129.74	125.90
38	4	55	U	N3-C4-C5	-6.39	110.77	114.60
36	5	1203	A	C5-C6-N6	-6.39	118.59	123.70
36	5	1933	A	N1-C2-N3	6.39	132.50	129.30
36	5	2115	G	O4'-C1'-N9	-6.39	103.09	108.20
36	5	2737	C	OP1-P-OP2	6.39	129.19	119.60
1	6	147	A	C5-N7-C8	-6.39	100.70	103.90
1	6	330	G	O5'-P-OP1	-6.39	99.95	105.70
1	6	440	U	C2-N1-C1'	-6.39	110.03	117.70
36	5	1510	G	C8-N9-C4	-6.39	103.84	106.40
36	5	2842	U	C5-C6-N1	6.39	125.90	122.70
36	5	2977	G	C4-C5-N7	6.39	113.36	110.80
36	5	3056	U	O5'-P-OP2	6.39	118.37	110.70
36	1	32	U	C5-C4-O4	-6.39	122.07	125.90
36	1	521	A	OP2-P-O3'	6.39	119.26	105.20
36	1	1320	C	N1-C2-N3	6.39	123.67	119.20
36	1	3354	U	O5'-P-OP2	-6.39	99.95	105.70
1	6	815	G	C5-N7-C8	-6.39	101.11	104.30
1	6	1168	U	N3-C4-O4	6.39	123.87	119.40
36	5	378	A	C2-N3-C4	-6.39	107.41	110.60
36	5	1376	C	C2-N3-C4	6.39	123.09	119.90
36	5	1446	A	OP1-P-O3'	6.39	119.26	105.20
36	5	1450	G	C5-N7-C8	-6.39	101.11	104.30
36	5	2374	C	C6-N1-C2	6.39	122.86	120.30
36	5	2891	U	N3-C2-O2	-6.39	117.73	122.20
36	5	3073	A	N1-C2-N3	6.39	132.50	129.30
1	2	163	G	C4-N9-C1'	6.39	134.80	126.50
1	2	1466	G	C4-C5-N7	6.39	113.36	110.80
1	2	1728	A	C5-C6-N1	6.39	120.89	117.70
36	1	585	A	O5'-P-OP2	-6.39	99.95	105.70
36	5	222	A	N1-C6-N6	-6.39	114.77	118.60
36	5	2186	U	C4-C5-C6	6.39	123.53	119.70
68	o2	128	LEU	CA-CB-CG	6.39	129.99	115.30
1	2	317	C	C2-N1-C1'	6.39	125.83	118.80
1	2	1774	G	C4-N9-C1'	6.39	134.80	126.50
36	1	342	A	C2-N3-C4	-6.39	107.41	110.60
36	1	1422	G	C4-C5-C6	6.39	122.63	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	54	A	O5'-P-OP1	-6.39	99.95	105.70
1	6	121	U	C2-N1-C1'	6.39	125.36	117.70
1	6	371	G	C8-N9-C1'	-6.39	118.70	127.00
36	5	364	G	N3-C2-N2	6.39	124.37	119.90
36	5	793	C	OP2-P-O3'	6.39	119.25	105.20
36	5	938	C	OP1-P-O3'	6.39	119.25	105.20
36	5	1486	G	C8-N9-C4	6.39	108.95	106.40
36	5	2239	G	N1-C6-O6	6.39	123.73	119.90
36	1	39	A	C4-C5-N7	6.38	113.89	110.70
36	1	1926	C	C6-N1-C2	-6.38	117.75	120.30
1	6	1280	C	C6-N1-C2	-6.38	117.75	120.30
1	6	1777	G	C8-N9-C4	-6.38	103.85	106.40
36	5	359	U	O5'-P-OP2	6.38	118.36	110.70
36	5	590	G	C6-C5-N7	6.38	134.23	130.40
36	5	1005	G	C5-C6-N1	-6.38	108.31	111.50
36	5	2846	U	C5-C6-N1	6.38	125.89	122.70
36	5	2916	U	N1-C2-N3	-6.38	111.07	114.90
36	5	3382	U	C5-C6-N1	6.38	125.89	122.70
36	1	1635	G	N3-C4-N9	6.38	129.83	126.00
36	1	3206	C	N3-C4-C5	-6.38	119.35	121.90
36	1	3253	G	N1-C2-N2	6.38	121.94	116.20
36	1	3375	A	N9-C4-C5	6.38	108.35	105.80
1	6	318	U	N1-C2-O2	-6.38	118.33	122.80
1	6	1027	A	C5-C6-N1	-6.38	114.51	117.70
36	5	1835	A	C8-N9-C4	-6.38	103.25	105.80
36	5	2925	C	OP1-P-OP2	-6.38	110.03	119.60
36	1	311	C	C5-C6-N1	6.38	124.19	121.00
36	1	797	U	C6-N1-C2	6.38	124.83	121.00
36	1	901	G	C2-N3-C4	6.38	115.09	111.90
36	1	2705	A	C5-C6-N1	6.38	120.89	117.70
36	1	2863	G	C5-C6-O6	6.38	132.43	128.60
1	6	275	C	C2-N1-C1'	6.38	125.82	118.80
1	6	394	C	N1-C2-O2	6.38	122.73	118.90
36	5	39	A	C2-N3-C4	-6.38	107.41	110.60
36	5	642	U	C5-C6-N1	-6.38	119.51	122.70
38	8	26	U	N1-C2-N3	6.38	118.73	114.90
36	1	516	A	OP2-P-O3'	6.38	119.24	105.20
36	1	1307	G	C8-N9-C1'	6.38	135.29	127.00
1	6	474	A	C4-C5-N7	6.38	113.89	110.70
1	6	1785	U	N3-C4-O4	6.38	123.87	119.40
36	5	499	G	O5'-P-OP1	-6.38	99.96	105.70
36	5	590	G	N1-C6-O6	-6.38	116.07	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2606	G	O4'-C1'-N9	-6.38	103.10	108.20
37	7	39	C	C6-N1-C1'	-6.38	113.14	120.80
36	1	407	A	N3-C4-C5	-6.38	122.33	126.80
36	1	1410	U	C6-N1-C2	-6.38	117.17	121.00
36	1	2713	U	C6-N1-C2	6.38	124.83	121.00
36	1	2958	A	N1-C6-N6	-6.38	114.77	118.60
36	5	423	A	C4-N9-C1'	6.38	137.78	126.30
36	5	744	A	N9-C4-C5	-6.38	103.25	105.80
36	5	1885	U	N1-C2-N3	6.38	118.73	114.90
36	1	585	A	N3-C4-C5	-6.38	122.34	126.80
36	1	589	A	C2-N3-C4	6.38	113.79	110.60
36	1	700	C	N3-C2-O2	6.38	126.36	121.90
36	1	1951	C	C2-N1-C1'	6.38	125.81	118.80
36	1	2419	A	O5'-P-OP1	-6.38	99.96	105.70
36	1	2956	A	N1-C2-N3	6.38	132.49	129.30
38	4	40	A	C5-C6-N1	6.38	120.89	117.70
38	4	104	A	C5-C6-N6	6.38	128.80	123.70
1	6	1655	A	C5-N7-C8	-6.38	100.71	103.90
36	5	639	G	C4-N9-C1'	6.38	134.79	126.50
36	1	28	C	C4-C5-C6	6.38	120.59	117.40
1	6	1116	A	C4-C5-C6	6.38	120.19	117.00
1	6	1158	C	C6-N1-C1'	-6.38	113.15	120.80
36	5	227	G	C5-C6-O6	6.38	132.43	128.60
36	5	635	G	OP1-P-OP2	6.38	129.16	119.60
36	5	902	G	N3-C4-N9	-6.38	122.17	126.00
36	1	655	C	N1-C2-O2	6.37	122.72	118.90
36	1	1084	A	C8-N9-C4	-6.37	103.25	105.80
36	1	2992	U	N3-C4-O4	6.37	123.86	119.40
36	1	3187	A	N1-C6-N6	-6.37	114.78	118.60
1	6	474	A	C5-C6-N6	-6.37	118.60	123.70
36	5	573	C	N3-C4-C5	6.37	124.45	121.90
36	5	806	A	N9-C4-C5	6.37	108.35	105.80
36	5	1495	U	C4-C5-C6	6.37	123.52	119.70
36	5	2355	G	N7-C8-N9	6.37	116.29	113.10
36	5	2957	G	C4-C5-N7	6.37	113.35	110.80
36	5	3264	G	C5-C6-O6	6.37	132.42	128.60
38	8	31	G	C5-N7-C8	6.37	107.49	104.30
1	2	111	U	C5-C6-N1	6.37	125.89	122.70
1	2	310	C	C4-C5-C6	6.37	120.59	117.40
1	2	1489	U	C6-N1-C2	-6.37	117.18	121.00
36	1	99	A	N1-C6-N6	-6.37	114.78	118.60
36	1	629	U	OP2-P-O3'	6.37	119.22	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	998	A	N1-C6-N6	6.37	122.42	118.60
36	1	1631	C	N3-C2-O2	-6.37	117.44	121.90
1	6	323	A	C8-N9-C4	-6.37	103.25	105.80
36	5	51	A	C4-C5-N7	6.37	113.89	110.70
36	5	647	A	N9-C4-C5	6.37	108.35	105.80
36	1	1096	U	P-O3'-C3'	6.37	127.34	119.70
36	5	242	C	C6-N1-C2	-6.37	117.75	120.30
36	5	851	C	C4-C5-C6	-6.37	114.22	117.40
36	5	2996	U	N1-C2-O2	6.37	127.26	122.80
36	5	3343	G	C4-C5-C6	6.37	122.62	118.80
36	1	631	U	C4-C5-C6	6.37	123.52	119.70
36	1	3267	A	N1-C2-N3	6.37	132.48	129.30
1	6	824	G	C4-N9-C1'	6.37	134.78	126.50
36	5	3218	A	C8-N9-C1'	-6.37	116.24	127.70
36	5	3332	U	C6-N1-C1'	6.37	130.12	121.20
38	8	1	A	C5-C6-N6	6.37	128.79	123.70
1	2	942	G	N1-C6-O6	-6.37	116.08	119.90
36	1	795	G	OP2-P-O3'	6.37	119.21	105.20
36	1	2663	G	N1-C6-O6	-6.37	116.08	119.90
37	3	82	G	C4-C5-C6	6.37	122.62	118.80
1	6	750	U	N3-C2-O2	6.37	126.66	122.20
36	5	2370	G	C5-C6-O6	6.37	132.42	128.60
36	5	2675	C	N1-C2-O2	6.37	122.72	118.90
36	5	3208	G	N3-C4-C5	-6.37	125.42	128.60
36	1	590	G	C2-N3-C4	-6.37	108.72	111.90
36	1	1149	G	N7-C8-N9	6.37	116.28	113.10
36	1	1907	C	C5-C4-N4	6.37	124.66	120.20
36	1	2655	U	N1-C2-O2	-6.37	118.34	122.80
36	1	3100	U	N3-C2-O2	6.37	126.66	122.20
1	6	98	U	N1-C2-N3	6.37	118.72	114.90
1	6	1663	G	C4-N9-C1'	-6.37	118.22	126.50
36	5	353	G	C8-N9-C1'	6.37	135.28	127.00
36	5	524	U	O5'-P-OP2	-6.37	99.97	105.70
36	5	920	A	C6-C5-N7	-6.37	127.84	132.30
36	5	1379	G	C4-C5-N7	6.37	113.35	110.80
36	5	2221	G	N3-C4-C5	6.37	131.78	128.60
36	1	166	C	N1-C2-O2	6.36	122.72	118.90
36	1	2427	U	C6-N1-C2	6.36	124.82	121.00
36	1	2825	C	C5-C4-N4	-6.36	115.75	120.20
36	1	3208	G	C8-N9-C1'	-6.36	118.73	127.00
36	1	3274	A	N7-C8-N9	6.36	116.98	113.80
1	6	957	G	N3-C2-N2	-6.36	115.44	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1244	A	C8-N9-C4	-6.36	103.25	105.80
36	5	132	C	C6-N1-C2	-6.36	117.75	120.30
36	5	367	A	N3-C4-N9	-6.36	122.31	127.40
36	5	894	G	N9-C4-C5	6.36	107.95	105.40
36	5	1843	C	C6-N1-C2	-6.36	117.75	120.30
36	5	1902	G	C4-C5-C6	6.36	122.62	118.80
36	5	1909	A	N1-C6-N6	-6.36	114.78	118.60
36	5	2892	A	N1-C2-N3	6.36	132.48	129.30
36	1	2804	A	N9-C4-C5	6.36	108.34	105.80
36	1	3125	U	C5-C4-O4	6.36	129.72	125.90
1	6	1768	G	C4-C5-N7	6.36	113.34	110.80
36	5	675	C	N1-C2-O2	-6.36	115.08	118.90
36	5	2161	G	C4-C5-N7	-6.36	108.25	110.80
1	2	316	A	C8-N9-C4	6.36	108.34	105.80
36	1	1296	C	O5'-P-OP2	-6.36	99.97	105.70
36	1	1551	C	N3-C2-O2	6.36	126.35	121.90
36	1	2407	C	N3-C2-O2	6.36	126.35	121.90
1	6	21	U	N3-C2-O2	-6.36	117.75	122.20
1	6	1758	U	C2-N1-C1'	6.36	125.33	117.70
1	6	1768	G	N3-C4-C5	6.36	131.78	128.60
36	5	425	G	C4-C5-N7	-6.36	108.25	110.80
36	5	3127	A	O5'-P-OP2	-6.36	99.97	105.70
38	8	55	U	C6-N1-C2	-6.36	117.18	121.00
36	1	76	G	N3-C2-N2	-6.36	115.45	119.90
36	1	851	C	C5-C6-N1	6.36	124.18	121.00
36	5	726	G	C6-C5-N7	-6.36	126.58	130.40
36	5	2258	U	N3-C2-O2	-6.36	117.75	122.20
37	7	82	G	C4-C5-N7	6.36	113.34	110.80
1	2	1006	C	C6-N1-C1'	-6.36	113.17	120.80
36	1	355	A	OP1-P-O3'	6.36	119.19	105.20
36	1	2425	G	N9-C4-C5	6.36	107.94	105.40
36	1	3263	G	C6-C5-N7	-6.36	126.58	130.40
38	4	41	A	N1-C2-N3	6.36	132.48	129.30
1	6	609	U	C4-C5-C6	6.36	123.52	119.70
1	6	1556	A	N3-C4-C5	6.36	131.25	126.80
36	5	536	U	N1-C2-O2	6.36	127.25	122.80
36	5	659	G	C5-N7-C8	-6.36	101.12	104.30
36	5	687	U	C5-C6-N1	-6.36	119.52	122.70
36	5	1396	C	O5'-P-OP2	-6.36	99.98	105.70
36	5	2823	G	N1-C6-O6	6.36	123.72	119.90
36	5	2865	U	N3-C4-O4	-6.36	114.95	119.40
36	5	3039	C	N1-C2-O2	-6.36	115.08	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3202	G	C4-C5-N7	-6.36	108.26	110.80
1	2	512	A	C8-N9-C4	-6.36	103.26	105.80
36	1	1929	G	C6-C5-N7	-6.36	126.59	130.40
36	1	2859	U	C5-C6-N1	-6.36	119.52	122.70
36	1	2963	C	N1-C2-N3	6.36	123.65	119.20
1	6	1145	U	N3-C4-C5	-6.36	110.79	114.60
36	5	1376	C	N3-C4-C5	-6.36	119.36	121.90
36	5	2284	C	C6-N1-C2	-6.36	117.76	120.30
36	5	2929	C	C4-C5-C6	-6.36	114.22	117.40
36	5	3308	C	N3-C4-N4	6.36	122.45	118.00
61	n5	133	LEU	CA-CB-CG	6.36	129.92	115.30
36	1	1773	C	C5-C6-N1	-6.35	117.82	121.00
36	1	2409	G	C6-N1-C2	-6.35	121.29	125.10
36	1	3368	U	C2-N1-C1'	-6.35	110.08	117.70
1	6	695	U	N1-C2-N3	6.35	118.71	114.90
36	5	213	A	C5-C6-N6	-6.35	118.62	123.70
36	5	1929	G	N3-C4-N9	-6.35	122.19	126.00
36	5	3216	G	C6-N1-C2	-6.35	121.29	125.10
1	2	1146	G	C5-C6-O6	-6.35	124.79	128.60
1	2	1299	G	C4-N9-C1'	6.35	134.76	126.50
36	1	656	A	C2-N3-C4	6.35	113.78	110.60
36	1	797	U	C2-N3-C4	-6.35	123.19	127.00
36	1	3318	G	N7-C8-N9	6.35	116.28	113.10
1	6	1659	A	N1-C2-N3	6.35	132.48	129.30
36	5	367	A	C5-C6-N6	6.35	128.78	123.70
36	5	594	U	C2-N1-C1'	6.35	125.32	117.70
36	5	1331	U	C2-N3-C4	-6.35	123.19	127.00
36	5	1599	G	N7-C8-N9	-6.35	109.92	113.10
36	5	1719	G	C2-N3-C4	-6.35	108.72	111.90
36	5	2610	G	C4-N9-C1'	-6.35	118.24	126.50
37	7	44	C	C5-C4-N4	-6.35	115.75	120.20
36	1	929	A	N9-C4-C5	-6.35	103.26	105.80
36	5	298	U	N3-C4-O4	6.35	123.85	119.40
36	5	954	U	C5-C6-N1	-6.35	119.52	122.70
36	5	1733	G	O5'-P-OP2	-6.35	99.98	105.70
36	5	3025	C	C2-N1-C1'	-6.35	111.81	118.80
36	5	3329	U	C5-C4-O4	6.35	129.71	125.90
1	2	1611	A	C2-N3-C4	-6.35	107.43	110.60
36	1	225	C	C6-N1-C2	-6.35	117.76	120.30
36	1	2352	A	N9-C4-C5	-6.35	103.26	105.80
36	5	1892	G	C6-C5-N7	-6.35	126.59	130.40
36	5	3195	U	O4'-C1'-N1	6.35	113.28	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	172	G	N3-C4-N9	6.35	129.81	126.00
36	1	404	G	C8-N9-C1'	-6.35	118.75	127.00
36	1	1138	U	N3-C2-O2	-6.35	117.76	122.20
36	1	1713	G	C6-C5-N7	6.35	134.21	130.40
36	1	2109	U	N3-C4-C5	-6.35	110.79	114.60
36	1	2877	G	C6-C5-N7	6.35	134.21	130.40
38	4	58	G	C8-N9-C4	-6.35	103.86	106.40
1	6	422	G	O5'-P-OP2	-6.35	99.99	105.70
1	6	1479	A	C5-C6-N6	-6.35	118.62	123.70
36	5	104	G	C5-C6-O6	-6.35	124.79	128.60
36	5	2373	A	N9-C4-C5	6.35	108.34	105.80
36	5	2957	G	C5-N7-C8	-6.35	101.13	104.30
36	1	1883	A	N7-C8-N9	-6.35	110.63	113.80
36	1	3210	A	C5-C6-N1	6.35	120.87	117.70
1	2	1600	A	C4-C5-N7	6.34	113.87	110.70
36	1	657	A	C4-C5-N7	6.34	113.87	110.70
36	1	1554	U	N1-C2-N3	-6.34	111.09	114.90
36	1	1592	G	N3-C4-N9	6.34	129.81	126.00
36	1	1911	A	O5'-P-OP2	-6.34	99.99	105.70
36	1	2287	C	N3-C2-O2	-6.34	117.46	121.90
36	1	2605	G	C6-C5-N7	-6.34	126.59	130.40
36	1	2789	U	N1-C2-N3	6.34	118.71	114.90
36	1	2814	G	C5-N7-C8	6.34	107.47	104.30
38	4	28	C	N3-C4-C5	-6.34	119.36	121.90
1	6	45	U	C5-C4-O4	-6.34	122.09	125.90
1	6	891	A	N1-C6-N6	6.34	122.41	118.60
1	6	1347	U	C5-C4-O4	6.34	129.71	125.90
1	6	1603	U	C5-C6-N1	6.34	125.87	122.70
36	5	1311	G	C5-C6-N1	-6.34	108.33	111.50
37	7	74	C	C6-N1-C2	6.34	122.84	120.30
36	1	132	C	N3-C4-C5	-6.34	119.36	121.90
36	1	2385	G	C8-N9-C4	6.34	108.94	106.40
36	5	935	U	C5-C4-O4	-6.34	122.09	125.90
36	5	2705	A	C6-N1-C2	-6.34	114.79	118.60
36	5	3269	U	N1-C2-N3	-6.34	111.09	114.90
36	1	1306	G	C5-C6-O6	-6.34	124.80	128.60
36	1	3267	A	C4-C5-C6	6.34	120.17	117.00
36	5	96	G	O4'-C1'-N9	-6.34	103.13	108.20
36	5	1532	C	N1-C2-O2	-6.34	115.09	118.90
36	5	1822	C	N3-C4-C5	-6.34	119.36	121.90
1	2	95	G	N1-C6-O6	-6.34	116.10	119.90
1	2	191	C	N1-C2-O2	-6.34	115.10	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	187	A	C5-C6-N6	6.34	128.77	123.70
36	1	1846	C	O5'-P-OP2	-6.34	100.00	105.70
36	1	2311	G	N1-C6-O6	6.34	123.70	119.90
36	1	3043	C	C5-C4-N4	-6.34	115.76	120.20
1	6	330	G	N3-C2-N2	-6.34	115.46	119.90
1	6	1148	C	N1-C2-N3	6.34	123.64	119.20
36	5	426	G	C5-N7-C8	6.34	107.47	104.30
36	5	568	G	N1-C6-O6	6.34	123.70	119.90
36	5	2126	A	C5-C6-N6	-6.34	118.63	123.70
36	5	2977	G	C5-C6-O6	-6.34	124.80	128.60
38	8	21	C	C4-C5-C6	-6.34	114.23	117.40
36	1	145	G	C8-N9-C4	-6.34	103.86	106.40
36	5	2185	G	N3-C2-N2	-6.34	115.46	119.90
36	5	2988	C	C2-N3-C4	-6.34	116.73	119.90
1	2	576	G	C5-C6-O6	-6.34	124.80	128.60
1	2	1786	G	N9-C4-C5	6.34	107.94	105.40
36	1	423	A	OP1-P-OP2	6.34	129.10	119.60
36	1	2355	G	C2-N3-C4	-6.34	108.73	111.90
36	1	3255	U	C2-N1-C1'	-6.34	110.10	117.70
1	6	1178	G	N3-C4-N9	6.34	129.80	126.00
1	6	1662	G	O5'-P-OP1	6.34	118.30	110.70
36	5	1852	G	C5-C6-N1	6.34	114.67	111.50
36	5	2386	A	C5-C6-N6	-6.34	118.63	123.70
36	5	3262	U	C6-N1-C2	-6.34	117.20	121.00
36	1	2300	G	N1-C2-N3	6.33	127.70	123.90
1	6	1440	C	C6-N1-C2	6.33	122.83	120.30
36	5	3295	A	C5-C6-N1	6.33	120.87	117.70
36	1	272	G	C2-N3-C4	-6.33	108.73	111.90
36	1	1359	C	N1-C2-O2	-6.33	115.10	118.90
36	1	1952	G	C8-N9-C4	-6.33	103.87	106.40
38	4	85	G	C8-N9-C4	-6.33	103.87	106.40
1	6	461	G	N3-C4-C5	-6.33	125.43	128.60
1	6	1023	A	N9-C4-C5	6.33	108.33	105.80
1	6	1425	A	C2-N3-C4	-6.33	107.43	110.60
1	6	1610	G	C2-N3-C4	6.33	115.07	111.90
1	6	1697	G	N3-C4-N9	6.33	129.80	126.00
36	5	1391	C	C2-N3-C4	-6.33	116.73	119.90
36	5	1514	G	N3-C2-N2	6.33	124.33	119.90
36	5	2922	G	OP1-P-OP2	-6.33	110.10	119.60
1	2	315	A	O4'-C1'-N9	6.33	113.27	108.20
36	1	19	U	N1-C2-O2	-6.33	118.37	122.80
36	1	67	A	C6-N1-C2	-6.33	114.80	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	326	U	O5'-P-OP2	-6.33	100.00	105.70
36	1	677	A	C2-N3-C4	6.33	113.77	110.60
36	1	1439	U	OP1-P-O3'	6.33	119.13	105.20
36	1	1887	A	C5-C6-N1	-6.33	114.53	117.70
1	6	462	G	O5'-P-OP1	-6.33	100.00	105.70
1	6	1774	G	N7-C8-N9	6.33	116.27	113.10
36	5	46	U	OP2-P-O3'	6.33	119.13	105.20
36	5	90	C	C6-N1-C2	-6.33	117.77	120.30
36	5	708	G	N3-C4-N9	6.33	129.80	126.00
36	5	1138	U	N1-C2-N3	6.33	118.70	114.90
36	5	1432	C	OP1-P-O3'	6.33	119.13	105.20
36	5	2116	G	N1-C6-O6	6.33	123.70	119.90
36	5	2275	A	N9-C4-C5	6.33	108.33	105.80
36	5	2319	U	N1-C2-O2	6.33	127.23	122.80
36	5	2772	C	P-O3'-C3'	6.33	127.30	119.70
36	5	3055	U	C5-C6-N1	-6.33	119.53	122.70
36	1	1552	G	C8-N9-C1'	-6.33	118.77	127.00
36	1	1928	G	N3-C4-N9	-6.33	122.20	126.00
38	4	81	U	N1-C2-O2	6.33	127.23	122.80
1	6	623	A	O5'-P-OP1	-6.33	100.00	105.70
36	5	990	U	C2-N1-C1'	6.33	125.30	117.70
36	5	3045	G	N9-C4-C5	6.33	107.93	105.40
70	o4	4	ARG	NE-CZ-NH2	-6.33	117.14	120.30
1	2	1786	G	N3-C4-N9	-6.33	122.20	126.00
36	1	311	C	C6-N1-C2	-6.33	117.77	120.30
36	1	397	A	N1-C2-N3	6.33	132.47	129.30
36	1	783	A	N1-C6-N6	6.33	122.40	118.60
36	1	939	U	C6-N1-C2	-6.33	117.20	121.00
36	1	2188	A	C5-C6-N1	6.33	120.86	117.70
36	1	2229	A	C4-C5-N7	6.33	113.86	110.70
36	1	2550	U	C6-N1-C2	-6.33	117.20	121.00
36	1	2881	C	N1-C2-N3	-6.33	114.77	119.20
36	5	64	G	N3-C4-C5	-6.33	125.44	128.60
36	5	360	G	N1-C2-N3	6.33	127.70	123.90
36	5	383	G	N1-C6-O6	-6.33	116.10	119.90
36	5	1485	G	C5-C6-O6	6.33	132.40	128.60
36	5	3143	C	OP1-P-O3'	6.33	119.12	105.20
36	1	2962	U	C4-C5-C6	-6.33	115.90	119.70
36	5	962	A	C8-N9-C4	-6.33	103.27	105.80
36	5	1443	G	OP1-P-O3'	6.33	119.12	105.20
36	5	2884	C	N1-C2-O2	-6.33	115.10	118.90
36	5	3303	G	C5-C6-O6	6.33	132.40	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	611	A	O5'-P-OP1	6.33	118.29	110.70
36	1	1519	G	N1-C6-O6	6.33	123.70	119.90
36	1	2820	A	C4-C5-C6	-6.33	113.84	117.00
1	6	286	C	N3-C4-C5	6.33	124.43	121.90
36	5	1011	A	N1-C2-N3	6.33	132.46	129.30
36	5	1101	G	C8-N9-C1'	-6.33	118.78	127.00
36	5	1899	G	N7-C8-N9	-6.33	109.94	113.10
36	5	2871	G	OP1-P-O3'	6.33	119.11	105.20
36	1	706	A	O5'-P-OP1	-6.32	100.01	105.70
36	1	2329	C	O5'-P-OP2	-6.32	100.01	105.70
36	1	2396	G	N9-C4-C5	6.32	107.93	105.40
36	1	2796	G	N1-C6-O6	-6.32	116.11	119.90
38	4	18	U	N1-C2-O2	6.32	127.23	122.80
36	5	413	U	N3-C2-O2	6.32	126.63	122.20
36	5	714	G	OP1-P-O3'	-6.32	91.29	105.20
36	5	2584	G	N3-C4-N9	6.32	129.79	126.00
36	5	3015	G	C2-N3-C4	-6.32	108.74	111.90
36	5	3088	G	C4-C5-C6	6.32	122.59	118.80
38	4	144	G	N7-C8-N9	-6.32	109.94	113.10
36	5	2727	A	OP1-P-OP2	6.32	129.08	119.60
36	5	2849	C	N1-C2-O2	-6.32	115.11	118.90
1	2	6	G	C8-N9-C4	-6.32	103.87	106.40
36	1	560	G	C2-N3-C4	6.32	115.06	111.90
36	1	2661	G	C6-C5-N7	-6.32	126.61	130.40
36	1	2816	G	C4-C5-C6	6.32	122.59	118.80
71	O5	21	LEU	CA-CB-CG	6.32	129.84	115.30
1	6	778	G	N1-C6-O6	-6.32	116.11	119.90
1	6	904	G	N1-C6-O6	-6.32	116.11	119.90
1	6	1304	G	N7-C8-N9	-6.32	109.94	113.10
36	5	1004	U	C5-C6-N1	6.32	125.86	122.70
36	5	1177	G	N1-C2-N3	6.32	127.69	123.90
36	5	1892	G	C2-N3-C4	-6.32	108.74	111.90
36	5	2416	U	N1-C2-N3	6.32	118.69	114.90
38	8	93	U	C2-N1-C1'	-6.32	110.12	117.70
36	1	2421	U	C2-N3-C4	-6.32	123.21	127.00
36	1	2640	A	O4'-C1'-N9	-6.32	103.14	108.20
36	1	2899	C	N3-C4-N4	-6.32	113.58	118.00
37	3	33	U	C5-C4-O4	-6.32	122.11	125.90
1	6	1600	A	C4-C5-N7	6.32	113.86	110.70
36	5	978	G	N3-C4-N9	-6.32	122.21	126.00
36	5	1177	G	N1-C6-O6	-6.32	116.11	119.90
36	5	1366	A	N1-C6-N6	6.32	122.39	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1548	C	C6-N1-C2	-6.32	117.77	120.30
36	5	2412	G	C4-N9-C1'	6.32	134.72	126.50
36	5	3330	A	C2-N3-C4	6.32	113.76	110.60
36	5	3362	A	O5'-P-OP2	-6.32	100.01	105.70
1	2	1435	G	N3-C4-N9	6.32	129.79	126.00
36	1	905	U	N1-C2-N3	6.32	118.69	114.90
36	1	1303	A	C8-N9-C4	6.32	108.33	105.80
36	1	3130	A	C8-N9-C4	-6.32	103.27	105.80
56	N0	82	ASP	CB-CG-OD2	-6.32	112.61	118.30
36	5	832	G	N3-C4-N9	6.32	129.79	126.00
36	5	2836	C	N3-C4-C5	-6.32	119.37	121.90
36	5	2931	C	C6-N1-C2	6.32	122.83	120.30
1	2	144	U	N3-C4-O4	-6.32	114.98	119.40
1	2	390	G	N3-C2-N2	-6.32	115.48	119.90
1	2	399	A	C4-C5-N7	-6.32	107.54	110.70
36	1	1576	G	N3-C4-C5	-6.32	125.44	128.60
36	1	1876	U	C6-N1-C2	-6.32	117.21	121.00
36	1	2272	G	N1-C2-N3	6.32	127.69	123.90
36	1	2285	C	C2-N1-C1'	-6.32	111.85	118.80
36	1	2833	A	N1-C2-N3	6.32	132.46	129.30
36	1	2863	G	N1-C2-N3	6.32	127.69	123.90
36	1	2958	A	N9-C4-C5	6.32	108.33	105.80
36	1	3007	U	C2-N3-C4	-6.32	123.21	127.00
36	1	3273	A	N9-C4-C5	6.32	108.33	105.80
1	6	417	A	N1-C2-N3	6.32	132.46	129.30
1	6	569	C	C2-N3-C4	-6.32	116.74	119.90
36	5	1099	A	C4-C5-N7	6.32	113.86	110.70
36	5	2662	G	N1-C2-N2	-6.32	110.52	116.20
37	7	29	C	C2-N3-C4	-6.32	116.74	119.90
40	13	4	ARG	NE-CZ-NH1	6.32	123.46	120.30
1	2	574	G	C5-N7-C8	6.31	107.46	104.30
36	1	424	G	N3-C4-C5	-6.31	125.44	128.60
36	1	2375	G	O4'-C1'-N9	6.31	113.25	108.20
38	4	91	C	N3-C4-C5	-6.31	119.38	121.90
1	6	1498	G	C5-C6-O6	-6.31	124.81	128.60
36	5	606	C	N1-C2-O2	-6.31	115.11	118.90
36	5	1236	G	C8-N9-C1'	-6.31	118.79	127.00
1	2	1466	G	N7-C8-N9	6.31	116.26	113.10
36	1	189	G	O5'-P-OP2	-6.31	100.02	105.70
36	1	360	G	N9-C4-C5	6.31	107.92	105.40
36	1	2617	U	C6-N1-C2	-6.31	117.21	121.00
1	6	298	C	C5-C4-N4	-6.31	115.78	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	291	C	N3-C4-C5	6.31	124.42	121.90
36	5	433	A	C5-N7-C8	-6.31	100.74	103.90
36	5	1102	A	C8-N9-C4	-6.31	103.28	105.80
36	5	1860	G	N1-C6-O6	-6.31	116.11	119.90
1	2	767	U	C5-C4-O4	6.31	129.69	125.90
36	5	1748	G	C4-C5-N7	6.31	113.32	110.80
36	5	2325	G	C6-C5-N7	-6.31	126.61	130.40
36	5	2422	C	C2-N1-C1'	-6.31	111.86	118.80
36	5	2876	C	C6-N1-C2	-6.31	117.78	120.30
1	2	1673	G	N3-C4-C5	-6.31	125.44	128.60
36	1	696	C	C6-N1-C2	-6.31	117.78	120.30
36	1	2388	U	OP2-P-O3'	6.31	119.08	105.20
36	1	3092	C	O5'-P-OP1	-6.31	100.02	105.70
36	1	3269	U	N1-C2-N3	6.31	118.69	114.90
36	5	1926	C	N3-C4-C5	6.31	124.42	121.90
36	5	2812	C	N3-C4-C5	6.31	124.42	121.90
36	5	2830	G	C4-C5-N7	-6.31	108.28	110.80
36	5	2982	A	N1-C6-N6	6.31	122.39	118.60
68	o2	45	ARG	NE-CZ-NH1	-6.31	117.14	120.30
1	2	1177	C	N3-C4-N4	6.31	122.42	118.00
1	2	1255	G	N9-C4-C5	6.31	107.92	105.40
1	2	1655	A	N7-C8-N9	-6.31	110.65	113.80
36	1	705	A	N9-C4-C5	-6.31	103.28	105.80
36	1	1589	A	C6-N1-C2	-6.31	114.82	118.60
36	1	1758	G	O5'-P-OP2	-6.31	100.02	105.70
36	1	2332	A	C2-N3-C4	-6.31	107.45	110.60
36	1	2696	A	C4-C5-C6	-6.31	113.85	117.00
36	1	2891	U	N3-C4-O4	6.31	123.82	119.40
36	1	3060	C	N1-C2-O2	6.31	122.68	118.90
1	6	1491	U	OP1-P-O3'	6.31	119.08	105.20
1	6	1592	A	N3-C4-N9	-6.31	122.36	127.40
1	6	1780	G	C2-N3-C4	6.31	115.05	111.90
36	5	926	A	C5-C6-N6	6.31	128.75	123.70
36	5	1632	A	C4-C5-N7	-6.31	107.55	110.70
36	5	2105	G	N1-C6-O6	6.31	123.68	119.90
36	1	1413	G	N9-C4-C5	-6.31	102.88	105.40
36	5	1468	A	C6-N1-C2	-6.31	114.82	118.60
36	5	2666	C	C5-C4-N4	-6.31	115.79	120.20
36	5	3131	U	C6-N1-C2	6.31	124.78	121.00
1	2	399	A	N9-C4-C5	6.30	108.32	105.80
36	1	1955	U	C6-N1-C2	-6.30	117.22	121.00
36	1	2616	C	N3-C4-C5	-6.30	119.38	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3361	G	C5-C6-O6	6.30	132.38	128.60
38	4	32	C	N3-C2-O2	-6.30	117.49	121.90
1	6	194	U	C5-C6-N1	6.30	125.85	122.70
1	6	1293	U	C5-C6-N1	-6.30	119.55	122.70
36	5	39	A	N3-C4-N9	-6.30	122.36	127.40
36	5	82	C	C5-C6-N1	-6.30	117.85	121.00
36	5	842	G	C4-N9-C1'	-6.30	118.30	126.50
36	5	987	U	N3-C4-C5	-6.30	110.82	114.60
36	5	1190	A	C4-N9-C1'	6.30	137.65	126.30
36	5	1840	U	OP2-P-O3'	6.30	119.07	105.20
36	5	2718	U	N3-C2-O2	-6.30	117.79	122.20
36	1	23	A	C8-N9-C4	-6.30	103.28	105.80
36	1	590	G	C8-N9-C4	6.30	108.92	106.40
36	1	1307	G	C4-C5-N7	-6.30	108.28	110.80
36	5	1157	G	OP2-P-O3'	6.30	119.07	105.20
36	5	1375	G	C2-N3-C4	6.30	115.05	111.90
36	5	2221	G	N3-C4-N9	-6.30	122.22	126.00
36	5	3189	G	N1-C2-N3	6.30	127.68	123.90
1	2	1177	C	C5-C4-N4	-6.30	115.79	120.20
1	2	1336	A	C8-N9-C4	6.30	108.32	105.80
1	2	1795	U	N3-C2-O2	-6.30	117.79	122.20
36	1	404	G	C4-C5-C6	6.30	122.58	118.80
36	1	1477	A	C6-N1-C2	-6.30	114.82	118.60
36	1	1689	U	O5'-P-OP1	-6.30	100.03	105.70
36	1	1926	C	N3-C2-O2	-6.30	117.49	121.90
37	3	93	C	N3-C4-C5	6.30	124.42	121.90
1	6	621	A	C4-C5-C6	-6.30	113.85	117.00
1	6	1395	G	N1-C6-O6	6.30	123.68	119.90
36	5	226	C	N1-C2-O2	6.30	122.68	118.90
36	5	2884	C	C6-N1-C2	6.30	122.82	120.30
36	5	3229	G	C4-N9-C1'	6.30	134.69	126.50
36	5	3309	G	N3-C4-C5	-6.30	125.45	128.60
36	1	335	G	O5'-P-OP2	6.30	118.26	110.70
36	1	498	A	C5-C6-N6	-6.30	118.66	123.70
36	1	589	A	C5-N7-C8	6.30	107.05	103.90
36	1	616	G	N1-C6-O6	6.30	123.68	119.90
36	1	796	U	C5-C6-N1	6.30	125.85	122.70
36	1	834	U	C6-N1-C2	6.30	124.78	121.00
36	1	1095	U	O5'-P-OP2	-6.30	100.03	105.70
36	1	1865	A	C5-C6-N1	-6.30	114.55	117.70
36	1	2315	G	N1-C2-N3	6.30	127.68	123.90
1	6	163	G	N7-C8-N9	6.30	116.25	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	714	G	N1-C6-O6	6.30	123.68	119.90
36	5	2346	C	C2-N3-C4	6.30	123.05	119.90
36	5	2911	A	C8-N9-C4	-6.30	103.28	105.80
36	5	3053	G	O5'-P-OP2	6.30	118.26	110.70
36	5	3173	G	N1-C6-O6	-6.30	116.12	119.90
36	5	3220	G	N9-C4-C5	6.30	107.92	105.40
36	1	686	G	N9-C4-C5	6.30	107.92	105.40
36	1	1269	U	N3-C2-O2	-6.30	117.79	122.20
36	1	2860	U	N1-C2-N3	-6.30	111.12	114.90
1	6	1517	U	N1-C2-N3	6.30	118.68	114.90
36	5	1329	U	N1-C1'-C2'	-6.30	105.07	112.00
36	5	2702	A	N7-C8-N9	6.30	116.95	113.80
36	1	25	U	N3-C2-O2	6.30	126.61	122.20
36	1	62	A	OP2-P-O3'	6.30	119.05	105.20
36	1	416	A	N1-C2-N3	6.30	132.45	129.30
36	1	793	C	N1-C2-N3	6.30	123.61	119.20
36	1	1046	A	N1-C6-N6	6.30	122.38	118.60
36	1	1297	C	O5'-P-OP1	-6.30	100.03	105.70
36	1	1635	G	C4-N9-C1'	6.30	134.68	126.50
36	1	2941	A	C5-C6-N6	-6.30	118.66	123.70
1	6	794	U	C6-N1-C1'	-6.30	112.39	121.20
1	6	1354	G	C4-C5-N7	6.30	113.32	110.80
1	6	1642	G	C4-C5-N7	6.30	113.32	110.80
36	5	1589	A	N3-C4-N9	6.30	132.44	127.40
36	5	2205	U	C2-N1-C1'	6.30	125.26	117.70
36	5	3129	A	C5-C6-N1	-6.30	114.55	117.70
37	7	52	G	O5'-P-OP1	-6.30	100.03	105.70
36	1	3087	A	C6-N1-C2	-6.29	114.82	118.60
1	6	1527	C	C5-C6-N1	-6.29	117.85	121.00
36	5	43	A	C5-N7-C8	-6.29	100.75	103.90
36	5	500	C	N3-C4-C5	-6.29	119.38	121.90
36	5	3117	C	N1-C2-O2	6.29	122.68	118.90
36	5	3303	G	C8-N9-C4	-6.29	103.88	106.40
36	1	375	A	N9-C4-C5	-6.29	103.28	105.80
36	1	608	A	C8-N9-C1'	-6.29	116.37	127.70
36	1	803	C	C2-N1-C1'	6.29	125.72	118.80
36	1	1043	C	C2-N3-C4	-6.29	116.75	119.90
36	1	2172	A	C5-N7-C8	-6.29	100.75	103.90
36	1	2365	C	C6-N1-C2	6.29	122.82	120.30
36	1	2410	U	OP2-P-O3'	6.29	119.05	105.20
1	6	1028	C	C4-C5-C6	6.29	120.55	117.40
1	6	1183	A	O5'-P-OP1	-6.29	100.03	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1546	G	N1-C2-N3	6.29	127.68	123.90
36	5	129	U	N1-C2-N3	6.29	118.68	114.90
36	5	1163	A	C5-C6-N6	6.29	128.74	123.70
36	5	1906	G	C6-N1-C2	-6.29	121.32	125.10
36	1	659	G	O5'-P-OP2	-6.29	100.04	105.70
36	1	2549	G	C4-C5-N7	-6.29	108.28	110.80
36	1	2880	U	O4'-C1'-N1	6.29	113.23	108.20
36	1	2901	G	C5-C6-O6	6.29	132.38	128.60
1	6	1106	U	C6-N1-C2	-6.29	117.22	121.00
36	5	2387	A	C5-N7-C8	-6.29	100.75	103.90
36	1	2566	C	C6-N1-C2	-6.29	117.78	120.30
36	5	2335	G	C8-N9-C1'	-6.29	118.82	127.00
36	5	3172	A	O5'-P-OP2	-6.29	100.04	105.70
1	2	1771	U	C6-N1-C2	6.29	124.77	121.00
36	1	880	G	C8-N9-C4	6.29	108.92	106.40
36	1	1334	U	N1-C2-O2	-6.29	118.40	122.80
36	1	2280	A	C6-C5-N7	-6.29	127.90	132.30
1	6	1150	G	C4-C5-N7	6.29	113.32	110.80
1	6	1564	U	C6-N1-C2	6.29	124.77	121.00
36	5	229	G	C8-N9-C4	-6.29	103.89	106.40
36	5	421	G	N1-C2-N2	-6.29	110.54	116.20
36	5	580	C	C4-C5-C6	6.29	120.54	117.40
36	5	644	G	C8-N9-C4	-6.29	103.89	106.40
36	5	2365	C	C5-C6-N1	-6.29	117.86	121.00
36	5	2670	G	N3-C2-N2	-6.29	115.50	119.90
1	2	1210	C	C5-C6-N1	6.29	124.14	121.00
36	1	3066	U	C5-C6-N1	-6.29	119.56	122.70
36	1	3117	C	N3-C2-O2	-6.29	117.50	121.90
36	5	363	G	C4-C5-C6	6.29	122.57	118.80
36	5	1201	C	C5-C6-N1	6.29	124.14	121.00
36	5	3062	G	C4-C5-N7	6.29	113.31	110.80
36	5	3289	G	N9-C1'-C2'	-6.29	105.08	112.00
36	1	1095	U	O4'-C1'-N1	-6.29	103.17	108.20
36	1	2182	A	C6-C5-N7	-6.29	127.90	132.30
1	6	338	C	N3-C4-C5	-6.29	119.39	121.90
36	5	356	C	C5-C6-N1	-6.29	117.86	121.00
36	5	630	A	C5-C6-N1	-6.29	114.56	117.70
36	5	808	A	C2-N3-C4	6.29	113.74	110.60
36	5	2835	U	N3-C4-C5	-6.29	110.83	114.60
36	5	3029	A	C2-N3-C4	-6.29	107.46	110.60
36	1	81	C	C6-N1-C2	-6.28	117.79	120.30
36	1	1201	C	C6-N1-C2	6.28	122.81	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2122	G	C8-N9-C4	-6.28	103.89	106.40
36	1	2177	G	N1-C6-O6	-6.28	116.13	119.90
36	1	2609	A	OP1-P-O3'	6.28	119.02	105.20
36	1	3190	C	N3-C4-C5	6.28	124.41	121.90
36	1	3197	G	C5-C6-O6	-6.28	124.83	128.60
1	6	308	C	O4'-C1'-N1	-6.28	103.17	108.20
1	6	392	G	N3-C2-N2	-6.28	115.50	119.90
36	5	864	G	OP1-P-OP2	-6.28	110.17	119.60
36	5	1480	G	N9-C4-C5	-6.28	102.89	105.40
36	5	2279	A	N9-C4-C5	-6.28	103.29	105.80
37	7	80	G	C5-N7-C8	6.28	107.44	104.30
1	2	1665	U	N1-C2-N3	6.28	118.67	114.90
36	1	1180	A	C4-N9-C1'	-6.28	114.99	126.30
36	1	2192	C	N1-C2-N3	6.28	123.60	119.20
36	1	2856	G	C2-N3-C4	-6.28	108.76	111.90
36	1	3054	U	C6-N1-C2	-6.28	117.23	121.00
36	1	3368	U	C5-C4-O4	6.28	129.67	125.90
1	6	1565	C	N3-C4-C5	6.28	124.41	121.90
36	5	1916	U	N3-C2-O2	-6.28	117.80	122.20
36	5	2549	G	C4-C5-C6	6.28	122.57	118.80
36	5	2796	G	C8-N9-C1'	-6.28	118.83	127.00
36	5	3383	G	C6-C5-N7	-6.28	126.63	130.40
1	2	620	A	C5-C6-N6	6.28	128.72	123.70
1	2	1008	G	N1-C6-O6	6.28	123.67	119.90
36	1	419	G	N1-C2-N3	6.28	127.67	123.90
36	1	616	G	C8-N9-C4	6.28	108.91	106.40
36	1	2360	C	OP2-P-O3'	6.28	119.02	105.20
36	1	2944	U	OP1-P-OP2	-6.28	110.18	119.60
36	1	3309	G	O5'-P-OP1	-6.28	100.05	105.70
1	6	1148	C	C5-C4-N4	6.28	124.60	120.20
1	6	1524	A	N1-C2-N3	6.28	132.44	129.30
36	5	376	G	N3-C4-C5	-6.28	125.46	128.60
36	5	1138	U	C5-C4-O4	6.28	129.67	125.90
36	5	1772	U	C5-C6-N1	-6.28	119.56	122.70
36	5	2371	G	C8-N9-C1'	-6.28	118.84	127.00
36	5	2399	A	C5-N7-C8	-6.28	100.76	103.90
36	5	2611	U	OP2-P-O3'	6.28	119.02	105.20
36	5	2613	U	N3-C4-C5	-6.28	110.83	114.60
36	5	2865	U	OP2-P-O3'	6.28	119.02	105.20
37	7	99	G	N3-C2-N2	-6.28	115.50	119.90
36	1	1514	G	N7-C8-N9	6.28	116.24	113.10
36	5	2309	A	O5'-P-OP2	-6.28	100.05	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2644	C	N1-C2-N3	6.28	123.59	119.20
36	5	2687	G	C6-C5-N7	-6.28	126.63	130.40
36	5	3335	A	O4'-C1'-N9	-6.28	103.18	108.20
36	1	219	A	O5'-P-OP1	-6.28	100.05	105.70
36	1	615	U	C4-C5-C6	6.28	123.47	119.70
36	1	1437	C	N3-C2-O2	-6.28	117.51	121.90
36	1	2121	G	C4-N9-C1'	-6.28	118.34	126.50
36	1	2207	A	O4'-C1'-N9	6.28	113.22	108.20
36	1	2874	G	C4-C5-N7	-6.28	108.29	110.80
36	1	2910	A	N1-C2-N3	6.28	132.44	129.30
36	5	787	G	C4-C5-N7	-6.28	108.29	110.80
36	5	857	G	N7-C8-N9	6.28	116.24	113.10
36	5	1429	G	C4-N9-C1'	6.28	134.66	126.50
36	5	1737	U	N3-C2-O2	6.28	126.59	122.20
36	5	1922	A	O5'-P-OP2	-6.28	100.05	105.70
36	5	2433	U	N1-C2-O2	6.28	127.19	122.80
36	5	2669	G	O5'-P-OP1	6.28	118.23	110.70
37	7	42	A	O5'-P-OP2	6.28	118.23	110.70
36	1	1101	G	N9-C4-C5	6.28	107.91	105.40
36	1	1758	G	N1-C6-O6	-6.28	116.13	119.90
36	1	2313	A	OP1-P-OP2	-6.28	110.19	119.60
36	1	3100	U	N3-C4-C5	6.28	118.36	114.60
1	6	1027	A	C5-C6-N6	6.28	128.72	123.70
1	6	1698	G	N1-C6-O6	-6.28	116.14	119.90
36	5	803	C	C6-N1-C1'	-6.28	113.27	120.80
36	5	804	C	C5-C4-N4	-6.28	115.81	120.20
36	5	1133	A	C8-N9-C4	-6.28	103.29	105.80
36	5	1241	U	C5-C6-N1	6.28	125.84	122.70
36	5	2140	U	N3-C4-C5	-6.28	110.83	114.60
36	5	2316	G	N1-C2-N3	6.28	127.67	123.90
36	5	2377	G	C2-N3-C4	6.28	115.04	111.90
36	5	2640	A	C8-N9-C4	6.28	108.31	105.80
1	6	1150	G	C6-C5-N7	-6.27	126.64	130.40
36	1	413	U	C2-N3-C4	-6.27	123.24	127.00
36	1	807	A	OP1-P-O3'	6.27	119.00	105.20
36	1	1466	G	N9-C4-C5	-6.27	102.89	105.40
1	6	1748	G	OP2-P-O3'	6.27	119.00	105.20
36	5	105	C	C6-N1-C2	6.27	122.81	120.30
36	5	405	U	C4-C5-C6	-6.27	115.94	119.70
36	5	2815	G	C5-C6-N1	-6.27	108.36	111.50
36	1	1058	U	N1-C2-O2	6.27	127.19	122.80
36	1	1134	G	C5-N7-C8	6.27	107.44	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1420	C	N1-C2-N3	6.27	123.59	119.20
36	1	2145	A	C6-N1-C2	-6.27	114.84	118.60
1	6	1278	G	N7-C8-N9	6.27	116.24	113.10
36	5	1046	A	N1-C6-N6	-6.27	114.84	118.60
36	5	2689	A	C2-N3-C4	-6.27	107.47	110.60
36	5	3022	G	C8-N9-C4	6.27	108.91	106.40
1	2	50	C	N3-C2-O2	-6.27	117.51	121.90
36	1	648	C	C4-C5-C6	6.27	120.53	117.40
36	1	2287	C	C2-N1-C1'	6.27	125.70	118.80
1	6	140	A	N9-C4-C5	6.27	108.31	105.80
36	5	202	G	N1-C6-O6	-6.27	116.14	119.90
36	5	902	G	C8-N9-C1'	6.27	135.15	127.00
36	5	1345	G	N1-C6-O6	6.27	123.66	119.90
36	5	2515	A	N1-C6-N6	-6.27	114.84	118.60
36	5	3132	C	C2-N3-C4	-6.27	116.77	119.90
37	7	28	C	C5-C6-N1	-6.27	117.87	121.00
44	17	179	LEU	CA-CB-CG	6.27	129.72	115.30
1	2	1140	G	C6-C5-N7	-6.27	126.64	130.40
36	1	389	A	C2-N3-C4	-6.27	107.47	110.60
36	1	521	A	O5'-P-OP1	-6.27	100.06	105.70
36	1	1528	G	C8-N9-C4	-6.27	103.89	106.40
36	1	2384	A	C4-C5-N7	-6.27	107.57	110.70
36	1	2399	A	N3-C4-N9	6.27	132.41	127.40
36	1	2410	U	N1-C2-O2	-6.27	118.41	122.80
1	6	616	G	C5-N7-C8	-6.27	101.17	104.30
1	6	1504	G	C5-C6-N1	-6.27	108.37	111.50
36	5	497	C	N1-C2-O2	-6.27	115.14	118.90
36	5	676	G	N7-C8-N9	6.27	116.23	113.10
36	5	891	G	C5-N7-C8	-6.27	101.17	104.30
36	5	2105	G	O5'-P-OP1	-6.27	100.06	105.70
36	1	1516	C	N3-C4-C5	-6.27	119.39	121.90
36	5	819	U	N3-C4-C5	-6.27	110.84	114.60
36	5	2277	C	C2-N3-C4	-6.27	116.77	119.90
36	5	2717	U	N1-C2-O2	-6.27	118.41	122.80
36	1	905	U	N3-C4-C5	-6.26	110.84	114.60
36	1	2215	A	C8-N9-C4	6.26	108.31	105.80
36	1	3271	G	N3-C4-C5	-6.26	125.47	128.60
1	6	1013	A	C5-C6-N1	6.26	120.83	117.70
1	6	1113	A	C5-C6-N1	6.26	120.83	117.70
1	6	1663	G	C8-N9-C4	6.26	108.91	106.40
36	5	1333	C	C4-C5-C6	6.26	120.53	117.40
36	5	1343	A	C2-N3-C4	-6.26	107.47	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2246	G	C6-C5-N7	-6.26	126.64	130.40
36	5	2897	A	C4-N9-C1'	6.26	137.57	126.30
36	1	34	A	C5-N7-C8	-6.26	100.77	103.90
1	2	734	A	OP1-P-O3'	6.26	118.98	105.20
1	2	1050	G	N3-C4-C5	6.26	131.73	128.60
1	2	1419	G	N1-C6-O6	6.26	123.66	119.90
36	1	854	G	N3-C2-N2	-6.26	115.52	119.90
36	1	936	A	N1-C6-N6	-6.26	114.84	118.60
36	1	977	C	C6-N1-C2	-6.26	117.80	120.30
36	1	1432	C	OP2-P-O3'	6.26	118.97	105.20
36	1	2908	G	C4-C5-N7	6.26	113.30	110.80
1	6	400	A	OP2-P-O3'	6.26	118.98	105.20
36	5	297	G	C6-C5-N7	-6.26	126.64	130.40
36	5	2157	G	N9-C4-C5	-6.26	102.89	105.40
36	5	2371	G	C6-C5-N7	-6.26	126.64	130.40
1	2	444	C	C6-N1-C2	6.26	122.80	120.30
36	1	2799	A	N9-C4-C5	6.26	108.30	105.80
36	1	2927	C	C2-N1-C1'	-6.26	111.92	118.80
38	4	53	A	N1-C2-N3	6.26	132.43	129.30
1	6	577	G	C8-N9-C4	-6.26	103.90	106.40
1	6	1491	U	C5-C6-N1	6.26	125.83	122.70
21	c9	68	ARG	NE-CZ-NH1	-6.26	117.17	120.30
36	5	1321	G	C6-C5-N7	-6.26	126.64	130.40
36	5	2427	U	C2-N1-C1'	-6.26	110.19	117.70
36	5	2762	A	C2-N3-C4	-6.26	107.47	110.60
1	2	1132	A	N1-C6-N6	-6.26	114.84	118.60
36	1	1416	C	N1-C2-O2	-6.26	115.14	118.90
36	1	1796	G	O5'-P-OP2	-6.26	100.07	105.70
36	5	1172	G	C8-N9-C1'	-6.26	118.86	127.00
36	5	1347	U	N1-C2-O2	-6.26	118.42	122.80
36	5	2242	A	C6-N1-C2	-6.26	114.84	118.60
1	2	734	A	P-O3'-C3'	6.26	127.21	119.70
36	1	1126	G	C6-C5-N7	-6.26	126.65	130.40
36	1	2823	G	OP2-P-O3'	-6.26	91.43	105.20
36	5	1162	U	C2-N3-C4	-6.26	123.25	127.00
36	5	1766	G	C4-N9-C1'	6.26	134.63	126.50
36	5	2838	A	O5'-P-OP1	6.26	118.21	110.70
36	5	3045	G	O5'-P-OP1	-6.26	100.07	105.70
1	2	1324	G	N3-C4-N9	-6.25	122.25	126.00
36	1	884	A	C2-N3-C4	6.25	113.73	110.60
36	1	2799	A	O5'-P-OP2	-6.25	100.07	105.70
36	1	2909	U	C5-C6-N1	-6.25	119.57	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	320	U	C5-C4-O4	6.25	129.65	125.90
1	6	1770	U	N1-C2-N3	-6.25	111.15	114.90
36	5	1471	U	C5-C6-N1	-6.25	119.57	122.70
36	5	2170	U	N1-C2-N3	6.25	118.65	114.90
36	5	2900	A	C2-N3-C4	-6.25	107.47	110.60
1	2	376	C	C4-C5-C6	6.25	120.53	117.40
1	2	1591	C	C6-N1-C2	-6.25	117.80	120.30
36	1	431	U	OP1-P-OP2	6.25	128.98	119.60
36	1	609	G	C4-N9-C1'	6.25	134.63	126.50
36	1	934	G	C4-C5-N7	6.25	113.30	110.80
36	1	1344	G	N3-C4-C5	6.25	131.73	128.60
36	1	1554	U	N3-C4-O4	6.25	123.78	119.40
36	1	2753	G	C5-C6-O6	6.25	132.35	128.60
1	6	103	A	C4-C5-N7	6.25	113.83	110.70
1	6	1789	G	C4-N9-C1'	6.25	134.63	126.50
36	5	2395	G	O5'-P-OP2	-6.25	100.07	105.70
36	5	2825	C	C5-C6-N1	6.25	124.13	121.00
36	5	3342	A	C5-C6-N6	-6.25	118.70	123.70
38	8	107	G	C8-N9-C4	-6.25	103.90	106.40
36	1	1165	A	C8-N9-C4	-6.25	103.30	105.80
36	1	2516	U	N1-C2-N3	6.25	118.65	114.90
36	1	2549	G	N1-C6-O6	-6.25	116.15	119.90
36	1	2996	U	N1-C2-N3	-6.25	111.15	114.90
36	1	3050	U	OP1-P-O3'	6.25	118.95	105.20
36	1	3063	C	N3-C2-O2	-6.25	117.52	121.90
1	6	48	G	N9-C4-C5	6.25	107.90	105.40
1	6	1601	G	N1-C6-O6	-6.25	116.15	119.90
36	5	566	G	N1-C2-N2	-6.25	110.57	116.20
36	5	1305	U	C6-N1-C2	6.25	124.75	121.00
36	5	1365	G	C2-N3-C4	-6.25	108.77	111.90
36	5	2420	C	C6-N1-C2	-6.25	117.80	120.30
36	5	3128	G	N1-C2-N3	6.25	127.65	123.90
36	5	3380	U	C5-C4-O4	6.25	129.65	125.90
36	1	400	G	N1-C6-O6	-6.25	116.15	119.90
36	1	415	G	C2-N3-C4	-6.25	108.78	111.90
36	1	552	G	C8-N9-C4	-6.25	103.90	106.40
36	1	780	A	C4-C5-N7	-6.25	107.58	110.70
36	1	2694	A	N1-C6-N6	-6.25	114.85	118.60
36	1	2813	A	C6-N1-C2	-6.25	114.85	118.60
36	1	3216	G	C6-C5-N7	-6.25	126.65	130.40
1	6	389	G	C5-N7-C8	-6.25	101.17	104.30
36	5	707	U	C5-C4-O4	6.25	129.65	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1332	A	C6-C5-N7	-6.25	127.92	132.30
36	5	1375	G	C4-N9-C1'	6.25	134.62	126.50
36	5	2126	A	N3-C4-N9	6.25	132.40	127.40
36	5	3065	G	N3-C4-C5	6.25	131.72	128.60
36	5	3127	A	C8-N9-C4	-6.25	103.30	105.80
1	2	1737	G	C5-N7-C8	-6.25	101.18	104.30
36	1	1399	A	C2-N3-C4	-6.25	107.48	110.60
36	1	1715	A	N1-C6-N6	6.25	122.35	118.60
36	1	2648	G	C5-C6-N1	6.25	114.62	111.50
1	6	1180	C	C6-N1-C2	-6.25	117.80	120.30
1	6	1245	G	C8-N9-C4	-6.25	103.90	106.40
36	5	1332	A	C4-C5-C6	6.25	120.12	117.00
36	5	1456	A	OP2-P-O3'	6.25	118.95	105.20
36	5	2434	U	N3-C2-O2	-6.25	117.83	122.20
37	7	53	U	N1-C2-O2	-6.25	118.43	122.80
40	13	342	LEU	CA-CB-CG	-6.25	100.93	115.30
36	1	283	G	C4-C5-N7	6.25	113.30	110.80
36	1	912	G	C4-C5-N7	-6.25	108.30	110.80
36	1	1316	C	C2-N1-C1'	6.25	125.67	118.80
36	1	2212	C	N3-C4-C5	6.25	124.40	121.90
36	1	2807	U	C6-N1-C2	-6.25	117.25	121.00
36	1	2895	G	C4-C5-C6	6.25	122.55	118.80
36	1	3050	U	C6-N1-C2	-6.25	117.25	121.00
38	4	145	U	C5-C6-N1	-6.25	119.58	122.70
1	6	1286	U	C4-C5-C6	6.25	123.45	119.70
36	5	94	G	C4-N9-C1'	-6.25	118.38	126.50
36	5	2111	G	N1-C6-O6	6.25	123.65	119.90
36	5	2863	G	C8-N9-C1'	6.25	135.12	127.00
36	5	3157	U	C2-N1-C1'	6.25	125.20	117.70
36	5	3157	U	N1-C2-O2	6.25	127.17	122.80
36	1	359	U	N1-C2-N3	6.25	118.65	114.90
36	1	1003	A	C8-N9-C4	-6.25	103.30	105.80
36	1	2380	U	C2-N1-C1'	-6.25	110.21	117.70
73	O7	65	ARG	NE-CZ-NH1	6.25	123.42	120.30
36	5	798	G	C4-C5-C6	6.25	122.55	118.80
36	5	994	G	C4-N9-C1'	6.25	134.62	126.50
36	5	1537	A	C6-C5-N7	-6.25	127.93	132.30
36	5	2702	A	C4-C5-C6	6.25	120.12	117.00
36	5	3054	U	C5-C4-O4	6.25	129.65	125.90
36	5	3342	A	N1-C6-N6	6.25	122.35	118.60
36	1	350	C	N3-C4-C5	-6.24	119.40	121.90
36	1	911	C	C5-C6-N1	-6.24	117.88	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	964	G	N7-C8-N9	6.24	116.22	113.10
36	1	1346	G	OP2-P-O3'	6.24	118.94	105.20
36	1	2601	A	N9-C4-C5	6.24	108.30	105.80
36	5	894	G	N3-C4-N9	-6.24	122.25	126.00
36	5	907	G	N7-C8-N9	-6.24	109.98	113.10
36	5	1535	A	O5'-P-OP1	-6.24	100.08	105.70
36	5	2370	G	N3-C4-N9	-6.24	122.25	126.00
36	5	3203	U	N3-C4-O4	-6.24	115.03	119.40
36	5	3324	C	C4-C5-C6	6.24	120.52	117.40
1	2	115	G	N9-C4-C5	-6.24	102.90	105.40
36	5	364	G	C6-C5-N7	-6.24	126.66	130.40
36	5	1168	U	C4-C5-C6	-6.24	115.95	119.70
1	2	1375	A	C8-N9-C4	6.24	108.30	105.80
36	1	120	G	N3-C4-N9	6.24	129.74	126.00
36	1	676	G	C6-C5-N7	-6.24	126.66	130.40
36	1	1157	G	N7-C8-N9	6.24	116.22	113.10
36	1	2926	A	N1-C2-N3	6.24	132.42	129.30
1	6	1303	U	N1-C2-O2	-6.24	118.43	122.80
36	5	590	G	N3-C4-N9	-6.24	122.26	126.00
36	5	961	C	C2-N1-C1'	6.24	125.66	118.80
36	5	3134	A	N1-C2-N3	6.24	132.42	129.30
36	5	3309	G	C4-N9-C1'	6.24	134.61	126.50
36	1	632	G	N9-C4-C5	-6.24	102.91	105.40
36	1	810	A	N1-C6-N6	-6.24	114.86	118.60
37	3	42	A	C2-N3-C4	-6.24	107.48	110.60
1	6	389	G	N1-C2-N3	-6.24	120.16	123.90
1	6	425	A	OP2-P-O3'	6.24	118.93	105.20
1	6	611	U	N3-C4-C5	-6.24	110.86	114.60
36	5	1304	A	C5-C6-N1	6.24	120.82	117.70
1	2	1775	U	O5'-P-OP2	-6.24	100.09	105.70
36	1	1500	G	C4-C5-C6	-6.24	115.06	118.80
36	5	1408	G	N3-C4-N9	6.24	129.74	126.00
38	8	66	A	N1-C2-N3	6.24	132.42	129.30
1	2	309	C	N1-C2-O2	-6.24	115.16	118.90
36	1	1312	C	N3-C4-N4	6.24	122.36	118.00
36	1	3060	C	C5-C6-N1	-6.24	117.88	121.00
1	6	788	A	N1-C2-N3	6.24	132.42	129.30
1	6	1147	A	O5'-P-OP1	-6.24	100.09	105.70
36	5	71	A	C5-C6-N6	6.24	128.69	123.70
36	5	675	C	N3-C2-O2	6.24	126.27	121.90
36	1	21	G	N7-C8-N9	6.23	116.22	113.10
36	5	717	C	C5-C4-N4	-6.23	115.84	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	944	C	N3-C4-N4	-6.23	113.64	118.00
36	5	2156	C	N3-C4-C5	-6.23	119.41	121.90
36	5	2965	U	C5-C6-N1	6.23	125.82	122.70
1	2	1539	G	O4'-C1'-N9	-6.23	103.21	108.20
1	2	1742	U	C6-N1-C2	-6.23	117.26	121.00
36	1	1141	C	N3-C2-O2	-6.23	117.54	121.90
36	1	1149	G	C8-N9-C1'	-6.23	118.90	127.00
36	1	1888	U	C2-N1-C1'	6.23	125.18	117.70
36	1	2521	U	N3-C4-O4	-6.23	115.04	119.40
36	1	2966	G	O5'-P-OP2	-6.23	100.09	105.70
37	3	77	G	C8-N9-C4	6.23	108.89	106.40
37	3	93	C	C6-N1-C2	6.23	122.79	120.30
37	3	95	A	C5-C6-N1	-6.23	114.58	117.70
1	6	308	C	C6-N1-C2	6.23	122.79	120.30
1	6	396	G	C4-C5-N7	-6.23	108.31	110.80
1	6	710	U	C2-N1-C1'	6.23	125.18	117.70
1	6	751	G	C5-C6-O6	-6.23	124.86	128.60
36	5	431	U	N3-C2-O2	-6.23	117.84	122.20
36	5	1338	C	N3-C2-O2	6.23	126.26	121.90
36	5	3096	C	C4-C5-C6	6.23	120.52	117.40
36	1	885	U	C2-N3-C4	-6.23	123.26	127.00
36	1	1101	G	C4-C5-N7	-6.23	108.31	110.80
36	1	1220	U	C6-N1-C2	-6.23	117.26	121.00
1	6	415	C	C2-N1-C1'	-6.23	111.95	118.80
1	6	1085	G	C8-N9-C4	6.23	108.89	106.40
1	6	1563	C	N1-C2-O2	6.23	122.64	118.90
1	6	1580	C	C5-C6-N1	-6.23	117.88	121.00
36	5	192	C	C2-N1-C1'	6.23	125.65	118.80
36	5	816	A	N9-C4-C5	6.23	108.29	105.80
36	5	980	A	C8-N9-C4	6.23	108.29	105.80
36	5	1654	A	C5-N7-C8	6.23	107.02	103.90
36	5	1719	G	N3-C2-N2	-6.23	115.54	119.90
36	5	2246	G	N1-C6-O6	6.23	123.64	119.90
36	5	2549	G	N7-C8-N9	6.23	116.22	113.10
37	7	105	C	C2-N3-C4	6.23	123.02	119.90
1	2	1541	G	C5-C6-N1	-6.23	108.39	111.50
36	1	1173	U	N1-C2-O2	6.23	127.16	122.80
36	1	2850	G	C5-C6-N1	6.23	114.61	111.50
36	1	3330	A	OP2-P-O3'	6.23	118.90	105.20
1	6	1509	C	N3-C2-O2	-6.23	117.54	121.90
36	5	637	C	C6-N1-C1'	-6.23	113.33	120.80
36	5	2793	G	N3-C2-N2	-6.23	115.54	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	810	G	C6-C5-N7	-6.23	126.66	130.40
36	1	722	G	N3-C4-C5	-6.23	125.49	128.60
36	1	2365	C	C5-C6-N1	-6.23	117.89	121.00
36	1	2420	C	C2-N3-C4	-6.23	116.79	119.90
36	1	2821	C	N1-C2-O2	6.23	122.64	118.90
36	1	3244	A	N1-C2-N3	6.23	132.41	129.30
38	4	4	C	C4-C5-C6	6.23	120.51	117.40
1	6	1550	A	C4-C5-C6	-6.23	113.89	117.00
36	5	856	G	N1-C6-O6	-6.23	116.16	119.90
36	5	1186	G	C8-N9-C4	-6.23	103.91	106.40
36	5	2684	C	C4-C5-C6	6.23	120.51	117.40
36	5	2921	U	N3-C2-O2	6.23	126.56	122.20
36	1	209	A	N3-C4-N9	-6.23	122.42	127.40
36	1	936	A	O5'-P-OP1	6.23	118.17	110.70
36	1	1171	G	N1-C6-O6	-6.23	116.16	119.90
36	1	1408	G	C5-N7-C8	-6.23	101.19	104.30
36	1	2158	A	N1-C6-N6	-6.23	114.86	118.60
36	1	2837	A	N1-C2-N3	6.23	132.41	129.30
36	5	1375	G	C8-N9-C4	-6.23	103.91	106.40
36	5	2397	A	N3-C4-N9	-6.23	122.42	127.40
1	2	240	U	C2-N1-C1'	6.22	125.17	117.70
1	2	1297	G	N9-C1'-C2'	-6.22	105.15	112.00
36	1	1663	C	N3-C4-C5	6.22	124.39	121.90
36	1	2122	G	N7-C8-N9	6.22	116.21	113.10
36	1	2409	G	C8-N9-C4	6.22	108.89	106.40
36	1	2411	U	N1-C2-O2	-6.22	118.44	122.80
36	1	2909	U	N3-C4-C5	6.22	118.33	114.60
38	4	54	A	C4-C5-C6	6.22	120.11	117.00
1	6	617	U	C2-N1-C1'	6.22	125.17	117.70
1	6	1670	G	C4-C5-C6	6.22	122.53	118.80
36	5	359	U	O5'-P-OP1	-6.22	100.10	105.70
36	5	1578	C	C2-N1-C1'	6.22	125.65	118.80
36	5	2803	A	C2-N3-C4	-6.22	107.49	110.60
36	1	404	G	C5-C6-O6	-6.22	124.87	128.60
36	1	2280	A	C5-N7-C8	-6.22	100.79	103.90
36	1	2414	G	C5-C6-N1	-6.22	108.39	111.50
36	1	2831	G	N1-C2-N2	6.22	121.80	116.20
36	1	2981	U	OP2-P-O3'	6.22	118.89	105.20
1	6	1295	G	N3-C2-N2	-6.22	115.54	119.90
1	6	1361	U	C5-C6-N1	6.22	125.81	122.70
36	5	43	A	C2-N3-C4	-6.22	107.49	110.60
36	5	2135	U	N3-C4-O4	-6.22	115.04	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2733	A	C8-N9-C4	6.22	108.29	105.80
36	5	2837	A	N1-C2-N3	6.22	132.41	129.30
36	5	2871	G	N7-C8-N9	6.22	116.21	113.10
36	5	3122	A	N3-C4-N9	-6.22	122.42	127.40
37	7	111	U	N1-C2-N3	6.22	118.63	114.90
1	2	1430	U	N1-C2-N3	6.22	118.63	114.90
36	1	2431	C	C6-N1-C2	-6.22	117.81	120.30
36	1	2764	C	C6-N1-C2	-6.22	117.81	120.30
36	1	2881	C	N3-C4-C5	6.22	124.39	121.90
1	6	1744	A	C5-C6-N1	6.22	120.81	117.70
36	5	724	U	N3-C4-C5	-6.22	110.87	114.60
36	1	14	U	N1-C2-N3	6.22	118.63	114.90
36	1	582	G	N1-C6-O6	-6.22	116.17	119.90
36	1	2315	G	C5-C6-O6	6.22	132.33	128.60
1	6	298	C	C5-C6-N1	6.22	124.11	121.00
36	5	948	C	O5'-P-OP2	-6.22	100.10	105.70
36	5	1366	A	N1-C2-N3	6.22	132.41	129.30
36	5	2874	G	N9-C4-C5	6.22	107.89	105.40
36	5	2967	A	OP2-P-O3'	6.22	118.88	105.20
36	5	3301	U	C6-N1-C2	6.22	124.73	121.00
36	1	2374	C	C2-N1-C1'	6.22	125.64	118.80
36	1	3269	U	C4-C5-C6	6.22	123.43	119.70
36	5	530	G	C5-C6-N1	6.22	114.61	111.50
36	5	2895	G	C8-N9-C1'	-6.22	118.92	127.00
36	5	3139	A	C5-C6-N1	6.22	120.81	117.70
38	8	80	A	N3-C4-C5	-6.22	122.45	126.80
1	2	759	U	C2-N1-C1'	-6.22	110.24	117.70
1	2	883	C	C6-N1-C2	-6.22	117.81	120.30
36	1	357	A	C5-C6-N1	6.22	120.81	117.70
36	1	366	A	C6-C5-N7	-6.22	127.95	132.30
36	1	747	A	C8-N9-C4	-6.22	103.31	105.80
36	1	964	G	OP1-P-O3'	-6.22	91.52	105.20
36	1	2173	U	C6-N1-C2	-6.22	117.27	121.00
36	1	2331	C	C6-N1-C1'	-6.22	113.34	120.80
36	1	2949	U	C5-C6-N1	-6.22	119.59	122.70
36	1	3195	U	N1-C2-N3	-6.22	111.17	114.90
1	6	1117	U	N3-C4-O4	6.22	123.75	119.40
36	5	1055	A	OP1-P-O3'	6.22	118.88	105.20
36	5	1373	A	N9-C4-C5	-6.22	103.31	105.80
36	5	1810	A	N9-C4-C5	-6.22	103.31	105.80
36	5	3166	C	C2-N1-C1'	6.22	125.64	118.80
36	5	3272	C	C5-C4-N4	6.22	124.55	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3274	A	N1-C2-N3	-6.22	126.19	129.30
36	5	3391	A	OP2-P-O3'	6.22	118.88	105.20
1	2	1002	G	N1-C2-N2	-6.21	110.61	116.20
36	1	651	G	C6-N1-C2	-6.21	121.37	125.10
37	3	84	A	N7-C8-N9	6.21	116.91	113.80
1	6	158	U	N3-C2-O2	-6.21	117.85	122.20
1	6	170	U	C6-N1-C2	-6.21	117.27	121.00
36	5	580	C	N3-C4-C5	-6.21	119.41	121.90
36	5	1003	A	N9-C4-C5	-6.21	103.31	105.80
36	5	1377	G	C8-N9-C4	-6.21	103.91	106.40
36	5	2245	C	N3-C4-C5	-6.21	119.41	121.90
36	5	2368	A	C5-C6-N1	-6.21	114.59	117.70
36	5	3057	U	O5'-P-OP1	6.21	118.16	110.70
36	5	3310	A	C4-C5-C6	6.21	120.11	117.00
36	1	632	G	C4-C5-N7	6.21	113.28	110.80
36	1	2953	U	C5-C4-O4	6.21	129.63	125.90
39	L2	191	LEU	CA-CB-CG	-6.21	101.01	115.30
1	6	324	U	N1-C2-O2	-6.21	118.45	122.80
1	2	1420	C	N3-C2-O2	-6.21	117.55	121.90
36	1	669	U	N3-C4-O4	6.21	123.75	119.40
36	1	1169	A	N9-C4-C5	6.21	108.28	105.80
36	1	1330	A	N3-C4-C5	6.21	131.15	126.80
36	1	1549	U	OP2-P-O3'	6.21	118.86	105.20
36	1	1658	G	N3-C4-N9	-6.21	122.27	126.00
36	1	2978	U	N1-C1'-C2'	6.21	122.08	114.00
36	1	2983	C	O4'-C1'-N1	6.21	113.17	108.20
37	3	25	G	C6-N1-C2	-6.21	121.37	125.10
1	6	1477	G	N7-C8-N9	-6.21	109.99	113.10
36	5	526	C	C6-N1-C2	6.21	122.78	120.30
36	5	1772	U	C2-N1-C1'	-6.21	110.25	117.70
36	5	3129	A	O4'-C1'-N9	6.21	113.17	108.20
36	5	3391	A	OP1-P-O3'	-6.21	91.54	105.20
1	2	332	U	N3-C4-C5	6.21	118.33	114.60
36	1	52	A	N9-C4-C5	6.21	108.28	105.80
77	Q1	14	LYS	CD-CE-NZ	6.21	125.98	111.70
1	6	848	C	C6-N1-C2	-6.21	117.82	120.30
36	5	920	A	N1-C6-N6	6.21	122.33	118.60
36	5	1176	C	O4'-C1'-N1	6.21	113.17	108.20
36	5	1306	G	N9-C4-C5	6.21	107.88	105.40
36	5	2755	C	N3-C4-N4	6.21	122.35	118.00
1	2	571	G	N3-C4-N9	-6.21	122.28	126.00
1	2	936	G	N3-C4-C5	-6.21	125.50	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	297	G	C5-C6-N1	6.21	114.60	111.50
36	1	406	G	O5'-P-OP2	-6.21	100.11	105.70
36	1	1131	G	N1-C6-O6	6.21	123.63	119.90
36	1	3252	G	N7-C8-N9	-6.21	110.00	113.10
1	6	1019	A	C5-N7-C8	6.21	107.00	103.90
1	6	1159	C	C5-C6-N1	-6.21	117.90	121.00
1	6	1620	C	N3-C4-N4	6.21	122.35	118.00
36	5	523	A	C5-C6-N6	6.21	128.67	123.70
36	5	808	A	N3-C4-C5	-6.21	122.45	126.80
36	5	1368	U	N1-C2-O2	-6.21	118.45	122.80
36	5	2360	C	N3-C2-O2	6.21	126.25	121.90
1	2	1123	C	N3-C4-N4	6.21	122.34	118.00
1	2	1498	G	N3-C4-N9	6.21	129.72	126.00
1	2	1752	U	C5-C6-N1	-6.21	119.60	122.70
1	2	1780	G	N1-C6-O6	6.21	123.62	119.90
36	1	2640	A	C2-N3-C4	-6.21	107.50	110.60
36	1	2818	U	O4'-C1'-N1	-6.21	103.23	108.20
36	1	2963	C	N3-C4-C5	-6.21	119.42	121.90
1	6	57	G	C6-C5-N7	-6.21	126.68	130.40
1	6	972	G	C4-N9-C1'	6.21	134.57	126.50
36	5	1127	G	C8-N9-C1'	-6.21	118.93	127.00
36	5	1297	C	N3-C4-C5	6.21	124.38	121.90
36	5	2745	G	C5-C6-N1	6.21	114.60	111.50
36	5	2776	C	C5-C6-N1	6.21	124.10	121.00
36	5	3320	A	O5'-P-OP1	-6.21	100.11	105.70
36	1	887	G	C6-N1-C2	-6.21	121.38	125.10
36	1	2982	A	N1-C2-N3	6.21	132.40	129.30
36	5	404	G	OP1-P-OP2	6.21	128.91	119.60
36	5	922	U	C4-C5-C6	6.21	123.42	119.70
36	5	2253	G	C4-N9-C1'	6.21	134.57	126.50
36	5	2690	G	C5-N7-C8	-6.21	101.20	104.30
1	2	115	G	C2-N3-C4	-6.20	108.80	111.90
1	2	458	G	C2-N3-C4	-6.20	108.80	111.90
36	1	935	U	N1-C2-N3	6.20	118.62	114.90
36	1	1443	G	C5-C6-O6	-6.20	124.88	128.60
36	1	2695	A	O5'-P-OP1	-6.20	100.12	105.70
36	1	3182	G	C6-N1-C2	-6.20	121.38	125.10
1	6	1527	C	C6-N1-C2	6.20	122.78	120.30
1	6	1747	G	O5'-P-OP1	6.20	118.14	110.70
36	5	799	G	C5-N7-C8	-6.20	101.20	104.30
36	5	2132	C	N1-C2-N3	6.20	123.54	119.20
36	5	2917	G	N1-C2-N3	6.20	127.62	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2933	A	N1-C2-N3	6.20	132.40	129.30
36	1	212	G	OP2-P-O3'	6.20	118.84	105.20
36	1	2277	C	N3-C4-C5	-6.20	119.42	121.90
1	6	601	A	O5'-P-OP2	-6.20	100.12	105.70
1	6	1651	A	C4-C5-N7	6.20	113.80	110.70
36	5	1303	A	O4'-C1'-N9	-6.20	103.24	108.20
36	1	402	A	O5'-P-OP1	-6.20	100.12	105.70
36	1	563	U	N3-C2-O2	-6.20	117.86	122.20
36	1	2161	G	C5-C6-O6	-6.20	124.88	128.60
36	1	3133	C	O5'-P-OP2	-6.20	100.12	105.70
37	3	114	U	N1-C2-O2	6.20	127.14	122.80
1	6	751	G	N3-C4-C5	6.20	131.70	128.60
36	5	2247	G	N1-C6-O6	-6.20	116.18	119.90
36	5	2651	G	N1-C6-O6	6.20	123.62	119.90
37	7	102	A	N1-C6-N6	6.20	122.32	118.60
1	2	1668	G	C5-C6-N1	-6.20	108.40	111.50
36	1	1004	U	OP1-P-OP2	6.20	128.90	119.60
36	1	1301	A	N9-C4-C5	-6.20	103.32	105.80
36	5	363	G	OP1-P-O3'	6.20	118.84	105.20
36	5	2412	G	N3-C4-C5	-6.20	125.50	128.60
1	2	17	C	C2-N1-C1'	-6.20	111.98	118.80
36	1	826	G	C6-C5-N7	-6.20	126.68	130.40
1	6	558	U	N1-C2-N3	-6.20	111.18	114.90
36	5	875	G	N1-C2-N2	6.20	121.78	116.20
36	5	1115	G	OP1-P-OP2	-6.20	110.31	119.60
36	5	2670	G	OP2-P-O3'	6.20	118.83	105.20
36	5	3298	C	C4-C5-C6	6.20	120.50	117.40
1	2	126	A	C2-N3-C4	-6.20	107.50	110.60
1	2	795	U	N3-C2-O2	-6.20	117.86	122.20
1	2	1212	G	N7-C8-N9	6.20	116.20	113.10
36	1	681	U	OP2-P-O3'	6.20	118.83	105.20
36	1	960	U	OP2-P-O3'	6.20	118.83	105.20
36	1	1399	A	O5'-P-OP2	6.20	118.14	110.70
38	4	111	A	N7-C8-N9	-6.20	110.70	113.80
1	6	427	C	C2-N3-C4	-6.20	116.80	119.90
36	5	136	G	C5-C6-O6	-6.20	124.88	128.60
36	5	642	U	C6-N1-C2	6.20	124.72	121.00
36	5	1380	G	C8-N9-C1'	-6.20	118.95	127.00
36	5	1654	A	C6-N1-C2	-6.20	114.88	118.60
36	5	2111	G	C5-C6-N1	-6.20	108.40	111.50
36	5	2295	A	C2-N3-C4	6.20	113.70	110.60
36	5	3166	C	N1-C2-O2	6.20	122.62	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	65	A	N1-C6-N6	-6.20	114.88	118.60
36	5	3016	A	C8-N9-C4	-6.19	103.32	105.80
1	2	261	U	C2-N1-C1'	6.19	125.13	117.70
36	1	1423	C	C4-C5-C6	6.19	120.50	117.40
36	1	1526	U	N1-C2-O2	6.19	127.14	122.80
36	1	1762	C	C6-N1-C2	-6.19	117.82	120.30
36	1	2390	A	C6-N1-C2	-6.19	114.88	118.60
36	5	101	G	C5-C6-O6	-6.19	124.89	128.60
36	5	402	A	C8-N9-C4	-6.19	103.32	105.80
36	5	420	G	N3-C4-N9	-6.19	122.28	126.00
36	5	1317	A	C5-N7-C8	-6.19	100.80	103.90
36	5	2698	G	N3-C2-N2	-6.19	115.56	119.90
36	5	3119	U	N1-C2-N3	6.19	118.62	114.90
36	5	3209	A	N7-C8-N9	6.19	116.90	113.80
1	2	552	G	C5-N7-C8	-6.19	101.20	104.30
36	1	33	G	N3-C4-C5	6.19	131.69	128.60
36	1	277	G	C6-C5-N7	6.19	134.11	130.40
36	1	1850	A	C4-C5-C6	6.19	120.09	117.00
36	1	1929	G	C6-N1-C2	-6.19	121.39	125.10
36	1	2243	A	C6-C5-N7	-6.19	127.97	132.30
36	1	2381	G	C5-N7-C8	-6.19	101.20	104.30
36	1	2637	A	C6-N1-C2	-6.19	114.89	118.60
1	6	360	A	C8-N9-C4	6.19	108.28	105.80
1	6	1020	A	C8-N9-C4	-6.19	103.32	105.80
36	5	1613	A	C8-N9-C4	-6.19	103.32	105.80
36	5	2243	A	N9-C4-C5	6.19	108.28	105.80
36	5	2403	G	O5'-P-OP1	6.19	118.13	110.70
36	5	2414	G	N1-C2-N3	6.19	127.61	123.90
36	5	3254	G	C2-N3-C4	-6.19	108.81	111.90
1	2	875	G	N3-C4-N9	6.19	129.71	126.00
36	1	1351	U	C5-C6-N1	6.19	125.80	122.70
36	1	1411	C	C2-N3-C4	-6.19	116.81	119.90
1	6	1542	G	N1-C2-N2	-6.19	110.63	116.20
36	5	610	G	C5-C6-O6	6.19	132.31	128.60
36	5	1044	U	N1-C2-O2	-6.19	118.47	122.80
1	2	1572	G	C5-C6-O6	-6.19	124.89	128.60
36	1	1852	G	C5-C6-N1	-6.19	108.41	111.50
36	1	2402	A	C8-N9-C4	-6.19	103.33	105.80
36	1	2419	A	N7-C8-N9	6.19	116.89	113.80
36	1	2982	A	N3-C4-N9	6.19	132.35	127.40
36	1	2983	C	N1-C2-N3	6.19	123.53	119.20
36	1	3333	G	C8-N9-C4	6.19	108.88	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	565	U	O5'-P-OP1	6.19	118.12	110.70
36	5	1386	A	N3-C4-N9	-6.19	122.45	127.40
36	5	1395	G	C5-C6-N1	-6.19	108.41	111.50
36	5	1403	C	OP1-P-O3'	6.19	118.81	105.20
36	5	1483	G	OP1-P-O3'	6.19	118.81	105.20
36	5	1653	G	N3-C2-N2	-6.19	115.57	119.90
36	5	2339	C	N3-C2-O2	6.19	126.23	121.90
36	5	2703	A	C4-N9-C1'	6.19	137.44	126.30
37	7	65	G	C5-C6-O6	-6.19	124.89	128.60
38	8	20	U	C4-C5-C6	6.19	123.41	119.70
36	1	1114	U	N1-C2-O2	6.19	127.13	122.80
36	1	2187	G	N1-C2-N2	-6.19	110.63	116.20
38	4	85	G	N3-C4-N9	6.19	129.71	126.00
1	6	558	U	N1-C2-O2	6.19	127.13	122.80
36	5	3209	A	N9-C1'-C2'	6.19	122.04	114.00
59	n3	88	ARG	NE-CZ-NH2	-6.19	117.21	120.30
36	1	104	G	N9-C1'-C2'	-6.18	105.20	112.00
36	1	508	U	O5'-P-OP2	-6.18	100.14	105.70
36	1	1724	U	N1-C2-N3	6.18	118.61	114.90
36	1	2288	G	C4-N9-C1'	6.18	134.54	126.50
36	1	2362	C	OP1-P-O3'	6.18	118.80	105.20
1	6	39	A	C6-N1-C2	-6.18	114.89	118.60
1	6	68	A	N1-C6-N6	6.18	122.31	118.60
36	5	782	U	C5-C4-O4	-6.18	122.19	125.90
36	5	1085	A	N1-C2-N3	6.18	132.39	129.30
36	5	1258	U	C5-C4-O4	6.18	129.61	125.90
36	5	1878	G	C4-N9-C1'	6.18	134.54	126.50
36	5	2856	G	C2-N3-C4	-6.18	108.81	111.90
36	5	3022	G	OP2-P-O3'	6.18	118.81	105.20
36	5	3104	U	C5-C4-O4	-6.18	122.19	125.90
36	5	3189	G	C8-N9-C1'	-6.18	118.96	127.00
1	2	875	G	N3-C4-C5	-6.18	125.51	128.60
1	2	1092	A	N7-C8-N9	6.18	116.89	113.80
1	2	1215	C	O5'-P-OP2	-6.18	100.14	105.70
36	1	435	C	C2-N3-C4	-6.18	116.81	119.90
36	1	637	C	N3-C4-C5	6.18	124.37	121.90
36	1	683	U	C2-N3-C4	-6.18	123.29	127.00
36	1	917	A	C5-C6-N1	6.18	120.79	117.70
36	1	2271	A	C2-N3-C4	-6.18	107.51	110.60
36	1	2678	A	C2-N3-C4	6.18	113.69	110.60
36	1	3009	G	C5-N7-C8	-6.18	101.21	104.30
36	1	3362	A	C4-C5-N7	6.18	113.79	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	293	U	C5-C6-N1	-6.18	119.61	122.70
36	5	2556	C	N3-C2-O2	-6.18	117.57	121.90
36	5	2917	G	N3-C4-N9	-6.18	122.29	126.00
36	1	3172	A	C6-C5-N7	-6.18	127.97	132.30
1	6	624	G	C5-C6-O6	-6.18	124.89	128.60
36	5	1770	G	N3-C4-N9	6.18	129.71	126.00
36	5	1778	G	C8-N9-C4	6.18	108.87	106.40
36	5	2138	A	C5-C6-N1	-6.18	114.61	117.70
36	5	3391	A	C2-N3-C4	-6.18	107.51	110.60
1	2	632	U	N1-C2-O2	6.18	127.12	122.80
1	2	758	U	C5-C4-O4	6.18	129.61	125.90
1	2	1083	G	N9-C4-C5	-6.18	102.93	105.40
36	1	223	U	C5-C4-O4	6.18	129.61	125.90
36	1	1157	G	N1-C2-N3	6.18	127.61	123.90
36	1	1874	A	C4-C5-C6	6.18	120.09	117.00
36	1	2174	G	N7-C8-N9	6.18	116.19	113.10
36	1	2398	A	C6-N1-C2	-6.18	114.89	118.60
36	1	2617	U	N3-C4-C5	-6.18	110.89	114.60
36	1	2800	G	O5'-P-OP1	6.18	118.12	110.70
1	6	385	A	N9-C4-C5	6.18	108.27	105.80
36	5	363	G	C6-N1-C2	-6.18	121.39	125.10
36	5	568	G	C6-C5-N7	-6.18	126.69	130.40
36	5	1040	A	O5'-P-OP2	6.18	118.12	110.70
36	5	1476	G	N9-C4-C5	-6.18	102.93	105.40
38	4	42	G	O5'-P-OP1	6.18	118.11	110.70
1	6	1070	C	N3-C4-N4	-6.18	113.67	118.00
36	5	987	U	O5'-P-OP2	-6.18	100.14	105.70
36	5	1520	G	C4-C5-C6	6.18	122.51	118.80
36	5	2379	U	O5'-P-OP2	-6.18	100.14	105.70
36	5	2825	C	C5-C4-N4	-6.18	115.88	120.20
36	1	404	G	OP1-P-OP2	6.18	128.86	119.60
36	1	2261	G	N3-C4-N9	6.18	129.71	126.00
36	1	2678	A	C5-C6-N1	6.18	120.79	117.70
36	1	3308	C	OP2-P-O3'	6.18	118.79	105.20
1	6	1100	G	O5'-P-OP1	-6.18	100.14	105.70
1	6	1627	U	N3-C4-O4	6.18	123.72	119.40
36	5	1138	U	N3-C2-O2	-6.18	117.88	122.20
36	5	1313	G	N1-C6-O6	6.18	123.61	119.90
36	5	3089	C	C5-C6-N1	6.18	124.09	121.00
1	2	1789	G	C6-C5-N7	-6.17	126.70	130.40
36	1	290	G	N1-C2-N2	6.17	121.76	116.20
36	1	1098	A	C5-C6-N1	6.17	120.79	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1119	C	O5'-P-OP1	6.17	118.11	110.70
36	1	2637	A	C4-C5-N7	-6.17	107.61	110.70
36	1	2868	U	OP2-P-O3'	6.17	118.78	105.20
36	1	3217	C	C5-C6-N1	6.17	124.09	121.00
34	sR	59	ARG	NE-CZ-NH1	6.17	123.39	120.30
36	5	44	U	C5-C6-N1	6.17	125.79	122.70
36	5	283	G	C2-N3-C4	6.17	114.99	111.90
36	5	2116	G	C5-C6-N1	-6.17	108.41	111.50
36	5	2126	A	C2-N3-C4	6.17	113.69	110.60
36	5	2814	G	C8-N9-C4	6.17	108.87	106.40
36	1	835	G	N1-C6-O6	6.17	123.60	119.90
36	1	2639	G	N7-C8-N9	6.17	116.19	113.10
1	6	103	A	P-O3'-C3'	6.17	127.11	119.70
1	6	1199	G	C2-N3-C4	-6.17	108.81	111.90
1	6	1451	C	C6-N1-C2	6.17	122.77	120.30
36	5	685	G	N1-C2-N2	-6.17	110.64	116.20
1	2	1198	G	N7-C8-N9	6.17	116.19	113.10
1	2	1214	U	C5-C4-O4	6.17	129.60	125.90
36	1	1743	G	C4-N9-C1'	-6.17	118.48	126.50
36	1	1789	G	C5-C6-N1	6.17	114.59	111.50
36	1	1894	U	C6-N1-C1'	6.17	129.84	121.20
36	1	1924	U	C5-C4-O4	6.17	129.60	125.90
36	1	2335	G	C2-N3-C4	6.17	114.99	111.90
36	1	2925	C	C6-N1-C2	6.17	122.77	120.30
36	5	2657	A	N1-C6-N6	-6.17	114.90	118.60
36	5	2661	G	OP1-P-O3'	6.17	118.78	105.20
36	5	2842	U	C6-N1-C1'	-6.17	112.56	121.20
38	8	22	U	C5-C6-N1	-6.17	119.61	122.70
1	2	1654	G	N3-C2-N2	6.17	124.22	119.90
36	1	651	G	N1-C2-N3	6.17	127.60	123.90
36	1	2753	G	N3-C4-C5	-6.17	125.52	128.60
36	1	2959	C	P-O3'-C3'	-6.17	112.30	119.70
1	6	170	U	N1-C2-O2	6.17	127.12	122.80
1	6	1626	U	C6-N1-C2	6.17	124.70	121.00
36	5	1802	C	C5-C6-N1	6.17	124.08	121.00
36	5	2131	A	N7-C8-N9	-6.17	110.72	113.80
36	5	3120	C	N3-C4-C5	6.17	124.37	121.90
1	2	1418	G	C6-C5-N7	-6.17	126.70	130.40
36	1	1000	C	N1-C2-N3	-6.17	114.88	119.20
36	1	1627	U	O5'-P-OP1	-6.17	100.15	105.70
36	1	2659	G	C8-N9-C1'	-6.17	118.98	127.00
36	1	2817	A	C4-C5-N7	-6.17	107.61	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3007	U	N1-C2-N3	6.17	118.60	114.90
37	3	85	G	C5-C6-O6	-6.17	124.90	128.60
38	4	41	A	C4-C5-C6	6.17	120.08	117.00
1	6	377	G	C8-N9-C4	-6.17	103.93	106.40
1	6	469	C	C6-N1-C2	6.17	122.77	120.30
1	6	1474	G	C6-C5-N7	-6.17	126.70	130.40
36	5	50	U	C6-N1-C1'	-6.17	112.56	121.20
36	5	757	C	N3-C4-N4	6.17	122.32	118.00
36	5	890	C	OP1-P-O3'	6.17	118.77	105.20
36	5	1000	C	N1-C2-N3	-6.17	114.88	119.20
36	5	1441	G	N3-C2-N2	-6.17	115.58	119.90
36	5	2567	C	N1-C2-O2	6.17	122.60	118.90
36	5	2653	C	C4-C5-C6	-6.17	114.32	117.40
37	3	78	U	N1-C2-N3	6.17	118.60	114.90
1	6	65	A	N3-C4-C5	6.17	131.12	126.80
1	6	573	C	N3-C4-C5	6.17	124.37	121.90
1	6	636	A	N7-C8-N9	-6.17	110.72	113.80
1	6	781	U	C5-C6-N1	6.17	125.78	122.70
1	6	1700	C	C5-C6-N1	6.17	124.08	121.00
36	5	218	G	C5-C6-O6	6.17	132.30	128.60
36	5	638	C	N3-C2-O2	-6.17	117.58	121.90
36	5	832	G	C4-N9-C1'	6.17	134.52	126.50
36	5	1913	A	C6-C5-N7	-6.17	127.98	132.30
36	5	3003	G	C4-N9-C1'	-6.17	118.48	126.50
1	2	111	U	N1-C2-O2	6.17	127.12	122.80
1	2	1274	C	N3-C2-O2	-6.17	117.58	121.90
36	1	2373	A	C2-N3-C4	-6.17	107.52	110.60
36	1	2776	C	C6-N1-C2	6.17	122.77	120.30
1	6	764	U	C4-C5-C6	6.17	123.40	119.70
38	8	4	C	C4-C5-C6	6.17	120.48	117.40
1	2	390	G	N9-C4-C5	6.16	107.86	105.40
36	1	314	U	C5-C6-N1	-6.16	119.62	122.70
36	1	399	A	C5-C6-N1	6.16	120.78	117.70
36	1	835	G	C5-N7-C8	-6.16	101.22	104.30
36	1	936	A	C8-N9-C1'	6.16	138.79	127.70
36	1	942	U	N1-C2-N3	6.16	118.60	114.90
36	1	1115	G	C8-N9-C1'	-6.16	118.99	127.00
36	1	1702	U	N1-C2-O2	-6.16	118.49	122.80
1	6	761	G	N1-C6-O6	-6.16	116.20	119.90
36	5	1224	C	N3-C4-C5	-6.16	119.43	121.90
36	5	2652	U	C5-C4-O4	-6.16	122.20	125.90
36	5	3107	U	C5-C4-O4	-6.16	122.20	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1430	U	C5-C4-O4	6.16	129.60	125.90
36	1	1076	C	C6-N1-C1'	-6.16	113.41	120.80
36	1	1119	C	N1-C2-O2	-6.16	115.20	118.90
36	1	1386	A	N3-C4-N9	-6.16	122.47	127.40
38	4	34	U	C5-C4-O4	6.16	129.60	125.90
38	4	49	G	N1-C6-O6	6.16	123.60	119.90
36	5	660	A	C4-C5-C6	6.16	120.08	117.00
36	5	1896	A	C6-C5-N7	6.16	136.61	132.30
36	5	3296	A	N9-C4-C5	-6.16	103.33	105.80
1	6	142	G	C5-N7-C8	6.16	107.38	104.30
1	6	1143	A	C4-C5-C6	6.16	120.08	117.00
1	6	1777	G	N3-C4-C5	-6.16	125.52	128.60
36	5	506	U	N3-C2-O2	6.16	126.51	122.20
36	5	523	A	N3-C4-N9	-6.16	122.47	127.40
36	5	666	A	C5-N7-C8	6.16	106.98	103.90
36	5	880	G	N3-C4-N9	-6.16	122.30	126.00
36	5	1220	U	C6-N1-C1'	-6.16	112.58	121.20
38	8	99	C	N3-C2-O2	-6.16	117.59	121.90
1	2	110	U	N3-C2-O2	6.16	126.51	122.20
1	2	1757	G	N1-C2-N2	-6.16	110.66	116.20
36	1	815	G	N3-C2-N2	-6.16	115.59	119.90
36	1	1006	A	N9-C4-C5	-6.16	103.34	105.80
36	1	2240	G	OP1-P-O3'	6.16	118.75	105.20
36	1	2374	C	C6-N1-C1'	-6.16	113.41	120.80
36	1	2376	G	N7-C8-N9	6.16	116.18	113.10
36	1	2882	U	N3-C2-O2	-6.16	117.89	122.20
36	1	3318	G	C5-N7-C8	-6.16	101.22	104.30
37	3	69	C	C5-C6-N1	6.16	124.08	121.00
1	6	1025	A	N1-C2-N3	6.16	132.38	129.30
36	5	888	A	C6-N1-C2	-6.16	114.91	118.60
36	5	1157	G	C4-C5-N7	-6.16	108.34	110.80
36	5	1901	A	C5-C6-N6	-6.16	118.77	123.70
36	5	2915	U	O5'-P-OP1	6.16	118.09	110.70
37	7	89	G	C4-N9-C1'	6.16	134.50	126.50
36	1	622	A	C5-C6-N6	-6.16	118.77	123.70
36	1	3095	U	O5'-P-OP2	6.16	118.09	110.70
38	4	98	U	N1-C2-N3	6.16	118.59	114.90
1	6	1024	U	P-O3'-C3'	6.16	127.09	119.70
36	5	1180	A	C6-N1-C2	-6.16	114.91	118.60
36	5	1779	C	C6-N1-C2	-6.16	117.84	120.30
1	2	1146	G	C8-N9-C1'	-6.16	119.00	127.00
36	1	75	G	N9-C4-C5	-6.16	102.94	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	834	U	N3-C4-O4	-6.16	115.09	119.40
36	1	902	G	C4-C5-N7	6.16	113.26	110.80
36	1	2800	G	O5'-P-OP2	-6.16	100.16	105.70
36	1	2811	A	C8-N9-C1'	-6.16	116.62	127.70
36	1	2939	G	N1-C2-N3	6.16	127.59	123.90
1	6	50	C	C6-N1-C2	6.16	122.76	120.30
1	6	891	A	C5-C6-N6	-6.16	118.78	123.70
1	6	1800	A	N1-C6-N6	6.16	122.29	118.60
36	5	979	U	N1-C2-N3	6.16	118.59	114.90
36	5	2282	U	OP2-P-O3'	6.16	118.74	105.20
36	5	2743	A	O5'-P-OP2	-6.16	100.16	105.70
36	5	2950	G	O4'-C1'-N9	6.16	113.12	108.20
36	5	3068	U	N1-C2-N3	6.16	118.59	114.90
36	5	3173	G	C5-C6-O6	6.16	132.29	128.60
36	5	3325	G	N7-C8-N9	-6.16	110.02	113.10
1	6	1025	A	C5-N7-C8	-6.15	100.82	103.90
1	6	1765	A	C5-C6-N6	6.15	128.62	123.70
1	6	1780	G	N1-C2-N3	-6.15	120.21	123.90
36	5	3098	G	C5-C6-N1	6.15	114.58	111.50
36	5	3278	C	N1-C2-O2	-6.15	115.21	118.90
1	2	1155	G	C8-N9-C4	6.15	108.86	106.40
1	2	1774	G	C6-C5-N7	-6.15	126.71	130.40
36	1	964	G	OP2-P-O3'	6.15	118.74	105.20
36	1	1155	C	N3-C4-C5	6.15	124.36	121.90
36	1	1374	G	C6-C5-N7	-6.15	126.71	130.40
36	1	2335	G	C4-N9-C1'	6.15	134.50	126.50
1	6	922	G	N7-C8-N9	6.15	116.18	113.10
1	6	943	C	C5-C4-N4	-6.15	115.89	120.20
36	5	940	G	C8-N9-C1'	6.15	135.00	127.00
36	5	1085	A	C4-C5-N7	6.15	113.78	110.70
36	5	2107	A	C8-N9-C4	-6.15	103.34	105.80
36	5	2327	U	C6-N1-C2	6.15	124.69	121.00
1	2	1778	G	C5-C6-N1	6.15	114.58	111.50
36	1	423	A	C5-C6-N1	6.15	120.78	117.70
36	1	643	U	N3-C4-C5	-6.15	110.91	114.60
36	1	998	A	OP2-P-O3'	6.15	118.73	105.20
36	1	1116	G	C8-N9-C1'	-6.15	119.00	127.00
36	1	2250	G	N1-C6-O6	-6.15	116.21	119.90
36	1	3344	A	C5-C6-N1	-6.15	114.62	117.70
1	6	1383	G	N3-C4-C5	-6.15	125.52	128.60
1	6	1645	G	C4-C5-N7	6.15	113.26	110.80
36	5	70	A	N7-C8-N9	6.15	116.88	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	330	G	C4-C5-N7	6.15	113.26	110.80
36	5	1369	A	C5-N7-C8	-6.15	100.83	103.90
36	5	2393	G	C4-N9-C1'	6.15	134.50	126.50
36	5	3392	U	N1-C2-O2	6.15	127.11	122.80
1	6	1630	U	C5-C6-N1	6.15	125.77	122.70
36	5	3242	G	C5-C6-N1	6.15	114.57	111.50
38	8	87	G	N3-C4-N9	6.15	129.69	126.00
1	2	1280	C	N3-C4-C5	-6.15	119.44	121.90
36	1	206	G	N9-C1'-C2'	-6.15	105.24	112.00
36	1	612	U	N3-C2-O2	-6.15	117.90	122.20
36	1	638	C	C5-C6-N1	-6.15	117.93	121.00
36	1	1724	U	C5-C6-N1	-6.15	119.63	122.70
36	1	2394	G	N7-C8-N9	-6.15	110.03	113.10
36	1	2601	A	N1-C2-N3	6.15	132.37	129.30
37	3	25	G	C8-N9-C1'	-6.15	119.01	127.00
36	5	48	A	N1-C6-N6	-6.15	114.91	118.60
36	5	2851	A	C6-N1-C2	-6.15	114.91	118.60
36	1	3209	A	O5'-P-OP2	-6.15	100.17	105.70
1	6	457	G	N3-C4-N9	6.15	129.69	126.00
36	5	630	A	C2-N3-C4	-6.15	107.53	110.60
36	5	688	G	N7-C8-N9	6.15	116.17	113.10
36	5	1322	U	N3-C4-O4	6.15	123.70	119.40
36	5	2847	A	N3-C4-C5	6.15	131.10	126.80
36	5	3242	G	N3-C2-N2	6.15	124.20	119.90
36	1	372	A	C5-C6-N6	-6.14	118.78	123.70
36	1	619	A	P-O3'-C3'	6.14	127.07	119.70
36	1	1477	A	C5-C6-N6	-6.14	118.78	123.70
36	1	3313	U	C6-N1-C2	6.14	124.69	121.00
36	5	1008	U	C5-C6-N1	-6.14	119.63	122.70
36	5	2199	G	N7-C8-N9	6.14	116.17	113.10
36	5	2586	G	C4-N9-C1'	-6.14	118.51	126.50
36	5	2596	U	N3-C2-O2	-6.14	117.90	122.20
37	7	60	G	C8-N9-C4	-6.14	103.94	106.40
1	2	79	C	O4'-C1'-N1	6.14	113.11	108.20
36	1	710	A	N9-C4-C5	-6.14	103.34	105.80
36	1	897	U	C6-N1-C1'	-6.14	112.60	121.20
36	1	1003	A	N7-C8-N9	6.14	116.87	113.80
36	1	1039	U	C6-N1-C2	6.14	124.69	121.00
36	1	2121	G	C4-C5-N7	-6.14	108.34	110.80
36	1	2964	G	N1-C6-O6	6.14	123.59	119.90
57	N1	151	LEU	CA-CB-CG	-6.14	101.17	115.30
1	6	308	C	C6-N1-C1'	6.14	128.17	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	526	A	C5-C6-N1	-6.14	114.63	117.70
1	6	1003	A	C2-N3-C4	-6.14	107.53	110.60
1	6	1770	U	C6-N1-C2	6.14	124.69	121.00
36	5	2838	A	C4-C5-N7	-6.14	107.63	110.70
36	5	3315	G	C5-N7-C8	-6.14	101.23	104.30
36	1	2330	C	C2-N3-C4	-6.14	116.83	119.90
36	1	3094	A	C2-N3-C4	6.14	113.67	110.60
38	4	18	U	N3-C4-O4	6.14	123.70	119.40
1	6	999	U	C4-C5-C6	-6.14	116.02	119.70
73	o7	32	LYS	CD-CE-NZ	6.14	125.83	111.70
1	2	983	A	C2-N3-C4	6.14	113.67	110.60
1	2	1295	G	C5-C6-O6	-6.14	124.92	128.60
36	1	45	A	N7-C8-N9	6.14	116.87	113.80
36	1	875	G	C2-N3-C4	-6.14	108.83	111.90
36	1	1176	C	OP1-P-OP2	-6.14	110.39	119.60
36	1	1908	A	C6-C5-N7	-6.14	128.00	132.30
36	1	2311	G	C4-C5-N7	6.14	113.26	110.80
1	6	250	C	C2-N1-C1'	6.14	125.55	118.80
1	6	610	G	N3-C4-N9	6.14	129.68	126.00
36	5	660	A	N1-C2-N3	6.14	132.37	129.30
36	5	949	C	C4-C5-C6	6.14	120.47	117.40
36	5	1332	A	O4'-C1'-N9	-6.14	103.29	108.20
36	5	2159	U	O4'-C1'-N1	6.14	113.11	108.20
36	1	1104	G	N9-C4-C5	6.14	107.86	105.40
37	3	13	A	O5'-P-OP2	-6.14	100.18	105.70
38	4	32	C	OP2-P-O3'	6.14	118.70	105.20
36	5	3044	G	P-O3'-C3'	6.14	127.07	119.70
36	1	1545	A	N1-C6-N6	6.14	122.28	118.60
36	1	1695	U	N3-C2-O2	-6.14	117.91	122.20
36	1	2359	C	C4-C5-C6	6.14	120.47	117.40
36	1	3153	U	N3-C4-O4	-6.14	115.11	119.40
36	1	3230	G	N3-C2-N2	-6.14	115.61	119.90
1	6	1123	C	N3-C4-N4	6.14	122.30	118.00
1	6	1439	C	C5-C4-N4	-6.14	115.91	120.20
36	5	559	A	C5-C6-N6	-6.14	118.79	123.70
36	5	2297	U	N3-C4-C5	-6.14	110.92	114.60
36	5	2777	G	C6-C5-N7	6.14	134.08	130.40
36	5	2816	G	OP1-P-OP2	6.14	128.81	119.60
38	8	144	G	N3-C4-N9	6.14	129.68	126.00
1	2	1082	C	OP2-P-O3'	6.13	118.69	105.20
36	1	85	A	C5-C6-N1	-6.13	114.63	117.70
36	1	978	G	N1-C2-N3	-6.13	120.22	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2120	A	C6-N1-C2	-6.13	114.92	118.60
36	1	2352	A	C4-C5-N7	6.13	113.77	110.70
1	6	16	G	N1-C6-O6	6.13	123.58	119.90
1	6	425	A	C8-N9-C4	-6.13	103.35	105.80
1	6	1071	U	N3-C4-C5	-6.13	110.92	114.60
36	5	2601	A	C5-C6-N1	6.13	120.77	117.70
36	5	2782	U	N3-C2-O2	6.13	126.50	122.20
1	2	163	G	O4'-C1'-N9	6.13	113.11	108.20
1	2	1583	A	N1-C6-N6	-6.13	114.92	118.60
1	2	1631	A	N1-C6-N6	-6.13	114.92	118.60
36	1	754	G	N1-C6-O6	6.13	123.58	119.90
36	1	2246	G	OP1-P-O3'	6.13	118.69	105.20
36	1	3306	U	O5'-P-OP2	-6.13	100.18	105.70
1	6	1743	U	C5-C6-N1	-6.13	119.63	122.70
36	5	947	G	N1-C2-N3	6.13	127.58	123.90
36	5	1040	A	N7-C8-N9	-6.13	110.73	113.80
36	5	1843	C	N3-C4-N4	6.13	122.29	118.00
36	1	908	G	O4'-C1'-N9	-6.13	103.30	108.20
36	1	1808	G	C5-C6-O6	6.13	132.28	128.60
36	1	2649	A	C6-C5-N7	-6.13	128.01	132.30
1	6	1013	A	C6-C5-N7	6.13	136.59	132.30
1	6	1587	A	N1-C6-N6	6.13	122.28	118.60
36	5	842	G	N9-C4-C5	-6.13	102.95	105.40
36	5	1755	C	C2-N3-C4	6.13	122.97	119.90
67	o1	42	LEU	CA-CB-CG	-6.13	101.20	115.30
36	1	616	G	C5-C6-O6	-6.13	124.92	128.60
36	1	2095	G	N1-C6-O6	6.13	123.58	119.90
36	1	3361	G	N9-C4-C5	6.13	107.85	105.40
1	6	1025	A	C4-C5-N7	6.13	113.77	110.70
36	5	183	G	C4-C5-C6	6.13	122.48	118.80
36	5	1598	G	N1-C6-O6	-6.13	116.22	119.90
36	5	2932	U	C2-N1-C1'	-6.13	110.34	117.70
1	2	298	C	N3-C2-O2	6.13	126.19	121.90
36	1	1112	A	C6-N1-C2	-6.13	114.92	118.60
36	1	2706	G	C8-N9-C1'	-6.13	119.03	127.00
36	1	3230	G	N9-C4-C5	6.13	107.85	105.40
44	L7	215	GLY	N-CA-C	-6.13	97.78	113.10
1	6	418	G	O5'-P-OP1	-6.13	100.19	105.70
1	6	620	A	OP2-P-O3'	6.13	118.68	105.20
25	d3	121	ARG	NE-CZ-NH1	-6.13	117.24	120.30
36	5	54	C	C6-N1-C2	-6.13	117.85	120.30
36	5	911	C	C5-C6-N1	-6.13	117.94	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2215	A	O5'-P-OP2	-6.13	100.18	105.70
36	5	3102	G	N9-C4-C5	-6.13	102.95	105.40
36	5	3373	U	C5-C6-N1	-6.13	119.64	122.70
1	2	1764	C	N3-C4-C5	6.13	124.35	121.90
36	1	14	U	C4-C5-C6	6.13	123.38	119.70
36	1	2311	G	C5-N7-C8	-6.13	101.24	104.30
36	1	2762	A	C5-C6-N6	-6.13	118.80	123.70
36	1	2922	G	N1-C2-N2	-6.13	110.69	116.20
1	6	474	A	C8-N9-C4	6.13	108.25	105.80
36	5	351	A	C5-C6-N1	6.13	120.76	117.70
36	5	922	U	C6-N1-C1'	6.13	129.78	121.20
36	5	1688	U	N3-C4-O4	-6.13	115.11	119.40
36	5	2869	U	O5'-P-OP2	6.13	118.05	110.70
36	1	429	U	N1-C2-O2	6.12	127.09	122.80
36	1	2671	A	O5'-P-OP2	-6.12	100.19	105.70
71	O5	28	LEU	CA-CB-CG	6.12	129.39	115.30
1	6	40	A	C8-N9-C4	6.12	108.25	105.80
1	6	187	G	P-O3'-C3'	6.12	127.05	119.70
1	6	402	C	C6-N1-C1'	-6.12	113.45	120.80
1	6	1536	G	N3-C2-N2	6.12	124.19	119.90
36	5	1860	G	C8-N9-C4	-6.12	103.95	106.40
36	1	2111	G	N1-C6-O6	-6.12	116.23	119.90
36	1	2174	G	N1-C6-O6	6.12	123.57	119.90
38	4	98	U	N3-C4-C5	-6.12	110.93	114.60
1	6	1007	C	C5-C6-N1	-6.12	117.94	121.00
36	5	372	A	N9-C4-C5	6.12	108.25	105.80
36	5	394	G	C5-N7-C8	6.12	107.36	104.30
36	5	1620	U	O5'-P-OP2	-6.12	100.19	105.70
36	5	2987	A	C8-N9-C4	6.12	108.25	105.80
38	8	15	G	OP1-P-O3'	6.12	118.67	105.20
36	1	194	U	C6-N1-C2	-6.12	117.33	121.00
36	1	697	A	N3-C4-C5	6.12	131.09	126.80
36	1	1048	A	C6-C5-N7	6.12	136.59	132.30
36	1	2817	A	N1-C2-N3	6.12	132.36	129.30
36	1	2934	A	N9-C4-C5	-6.12	103.35	105.80
1	6	1610	G	C4-N9-C1'	6.12	134.46	126.50
36	5	64	G	N3-C4-N9	6.12	129.67	126.00
36	5	885	U	N1-C2-O2	-6.12	118.52	122.80
36	5	982	C	C4-C5-C6	-6.12	114.34	117.40
36	5	1929	G	C5-C6-N1	-6.12	108.44	111.50
36	5	3132	C	C4-C5-C6	6.12	120.46	117.40
36	5	3315	G	C4-C5-N7	6.12	113.25	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	549	G	N3-C2-N2	-6.12	115.62	119.90
36	5	281	G	C5-C6-O6	6.12	132.27	128.60
36	5	2377	G	O5'-P-OP2	-6.12	100.19	105.70
36	1	919	U	O5'-P-OP2	-6.12	100.19	105.70
36	1	1438	U	O5'-P-OP2	-6.12	100.19	105.70
36	1	1594	A	C5-C6-N1	6.12	120.76	117.70
36	1	2824	G	C4-N9-C1'	6.12	134.45	126.50
1	6	43	A	OP1-P-OP2	6.12	128.78	119.60
36	5	76	G	O5'-P-OP1	-6.12	100.19	105.70
36	5	349	A	C2-N3-C4	6.12	113.66	110.60
36	5	647	A	N1-C6-N6	-6.12	114.93	118.60
36	5	837	A	OP2-P-O3'	6.12	118.66	105.20
36	5	1164	G	C8-N9-C1'	6.12	134.95	127.00
36	5	1302	A	OP1-P-OP2	-6.12	110.42	119.60
36	5	1475	A	O5'-P-OP2	-6.12	100.19	105.70
36	5	1846	C	N3-C4-C5	6.12	124.35	121.90
38	8	3	A	O5'-P-OP1	-6.12	100.19	105.70
1	2	1464	G	C6-C5-N7	-6.12	126.73	130.40
36	1	657	A	C5-N7-C8	-6.12	100.84	103.90
36	1	1330	A	O5'-P-OP2	-6.12	100.19	105.70
36	1	1798	A	C2-N3-C4	-6.12	107.54	110.60
36	1	2826	U	C6-N1-C1'	6.12	129.76	121.20
36	5	584	G	C8-N9-C4	-6.12	103.95	106.40
36	5	1120	A	OP2-P-O3'	6.12	118.66	105.20
36	5	2247	G	N3-C2-N2	6.12	124.18	119.90
1	2	610	G	C6-C5-N7	-6.12	126.73	130.40
36	1	1521	G	C4-N9-C1'	-6.12	118.55	126.50
36	1	1819	U	C5-C6-N1	6.12	125.76	122.70
36	1	1929	G	N3-C4-N9	6.12	129.67	126.00
36	1	2966	G	C2-N3-C4	-6.12	108.84	111.90
36	1	3120	C	C6-N1-C2	6.12	122.75	120.30
42	L5	24	ARG	NE-CZ-NH1	-6.12	117.24	120.30
64	N8	56	VAL	CB-CA-C	-6.12	99.78	111.40
36	5	890	C	C2-N1-C1'	6.12	125.53	118.80
36	5	1477	A	N1-C2-N3	6.12	132.36	129.30
36	5	2379	U	N3-C2-O2	-6.12	117.92	122.20
36	5	3208	G	C2-N3-C4	-6.12	108.84	111.90
36	1	1306	G	C8-N9-C4	-6.11	103.95	106.40
36	1	1895	A	C8-N9-C4	6.11	108.25	105.80
36	1	1896	A	OP2-P-O3'	6.11	118.65	105.20
36	1	1937	U	C2-N1-C1'	-6.11	110.36	117.70
36	1	2420	C	N3-C4-C5	6.11	124.35	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3261	C	N1-C2-O2	-6.11	115.23	118.90
36	5	523	A	C5-C6-N1	-6.11	114.64	117.70
36	5	902	G	O5'-P-OP1	-6.11	100.20	105.70
36	5	976	U	O5'-P-OP2	-6.11	100.20	105.70
36	5	1681	U	N1-C2-N3	6.11	118.57	114.90
36	5	1884	A	N1-C6-N6	6.11	122.27	118.60
36	5	3063	C	N3-C4-C5	6.11	124.34	121.90
1	2	1523	G	C4-C5-N7	6.11	113.25	110.80
36	1	624	G	C4-C5-C6	6.11	122.47	118.80
36	1	660	A	N9-C4-C5	6.11	108.25	105.80
36	1	869	G	C6-N1-C2	-6.11	121.43	125.10
36	1	1394	A	N1-C6-N6	6.11	122.27	118.60
36	1	2980	U	OP1-P-O3'	6.11	118.65	105.20
36	1	3269	U	N3-C2-O2	-6.11	117.92	122.20
1	6	789	A	C8-N9-C4	-6.11	103.36	105.80
36	5	183	G	N1-C2-N3	6.11	127.57	123.90
36	5	3185	U	N3-C4-C5	-6.11	110.93	114.60
36	1	27	C	C4-C5-C6	6.11	120.46	117.40
36	1	401	U	N3-C2-O2	-6.11	117.92	122.20
36	1	2295	A	C8-N9-C4	-6.11	103.36	105.80
68	O2	8	LYS	CD-CE-NZ	6.11	125.75	111.70
1	6	753	A	C8-N9-C4	6.11	108.24	105.80
36	5	1296	C	O5'-P-OP1	6.11	118.03	110.70
36	5	1357	G	N7-C8-N9	6.11	116.16	113.10
36	5	2593	A	P-O3'-C3'	6.11	127.03	119.70
36	5	3019	U	N1-C2-N3	6.11	118.57	114.90
36	5	3053	G	C5-C6-N1	-6.11	108.44	111.50
1	2	389	G	C8-N9-C4	-6.11	103.96	106.40
1	2	1774	G	C8-N9-C1'	-6.11	119.06	127.00
36	1	1208	U	C5-C6-N1	6.11	125.75	122.70
36	1	2138	A	C5-C6-N6	-6.11	118.81	123.70
36	1	2185	G	C8-N9-C1'	-6.11	119.06	127.00
1	6	877	G	C8-N9-C4	6.11	108.84	106.40
1	6	1212	G	C2-N3-C4	6.11	114.95	111.90
1	6	1791	A	C8-N9-C4	6.11	108.24	105.80
36	5	306	A	O5'-P-OP2	-6.11	100.20	105.70
36	5	502	U	C6-N1-C2	6.11	124.67	121.00
36	5	921	A	C4-C5-C6	6.11	120.06	117.00
36	5	2572	C	C6-N1-C1'	-6.11	113.47	120.80
37	7	107	C	C6-N1-C2	6.11	122.74	120.30
1	2	323	A	O5'-P-OP2	-6.11	100.20	105.70
36	1	1112	A	C5-C6-N1	6.11	120.75	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1385	C	C6-N1-C1'	6.11	128.13	120.80
36	1	1524	A	N9-C4-C5	6.11	108.24	105.80
36	1	1818	U	N3-C2-O2	-6.11	117.92	122.20
36	1	2333	C	OP2-P-O3'	6.11	118.64	105.20
36	1	2881	C	N3-C2-O2	6.11	126.18	121.90
40	L3	270	ARG	NE-CZ-NH1	-6.11	117.25	120.30
1	6	750	U	N1-C2-O2	-6.11	118.53	122.80
1	6	1704	U	C5-C6-N1	6.11	125.75	122.70
7	s5	118	LEU	CA-CB-CG	-6.11	101.25	115.30
36	5	731	U	N3-C4-O4	-6.11	115.12	119.40
36	5	2640	A	N9-C4-C5	-6.11	103.36	105.80
36	5	2969	A	C4-C5-C6	6.11	120.05	117.00
1	2	260	U	C2-N1-C1'	6.11	125.03	117.70
36	1	1097	G	C6-C5-N7	-6.11	126.74	130.40
36	5	197	G	O5'-P-OP2	6.11	118.03	110.70
36	5	708	G	C6-C5-N7	-6.11	126.74	130.40
36	5	1370	G	C8-N9-C4	-6.11	103.96	106.40
36	5	2383	C	C2-N1-C1'	6.11	125.52	118.80
36	5	2896	A	N9-C4-C5	-6.11	103.36	105.80
36	1	521	A	O5'-P-OP2	6.10	118.02	110.70
36	5	922	U	C6-N1-C2	6.10	124.66	121.00
36	5	2877	G	C5-C6-O6	6.10	132.26	128.60
36	5	2943	G	O4'-C1'-N9	-6.10	103.32	108.20
36	5	2944	U	C4-C5-C6	6.10	123.36	119.70
36	5	3303	G	N1-C6-O6	-6.10	116.24	119.90
1	2	155	U	O4'-C1'-N1	6.10	113.08	108.20
1	2	577	G	N7-C8-N9	6.10	116.15	113.10
36	1	183	G	N1-C2-N2	-6.10	110.71	116.20
36	1	642	U	C2-N3-C4	6.10	130.66	127.00
36	1	652	G	N1-C6-O6	-6.10	116.24	119.90
36	1	918	C	N3-C4-C5	6.10	124.34	121.90
36	1	1400	G	OP2-P-O3'	6.10	118.62	105.20
36	1	2706	G	C4-N9-C1'	6.10	134.43	126.50
1	6	1463	C	C4-C5-C6	-6.10	114.35	117.40
1	6	1557	U	C5-C4-O4	6.10	129.56	125.90
1	6	1575	G	C4-N9-C1'	-6.10	118.57	126.50
36	5	1916	U	C5-C4-O4	6.10	129.56	125.90
36	5	2777	G	N7-C8-N9	-6.10	110.05	113.10
36	5	2898	G	N1-C2-N3	6.10	127.56	123.90
37	7	83	U	C6-N1-C2	-6.10	117.34	121.00
1	2	1148	C	C4-C5-C6	6.10	120.45	117.40
36	1	766	U	C5-C6-N1	6.10	125.75	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2701	U	N1-C2-O2	-6.10	118.53	122.80
36	1	3369	G	C4-N9-C1'	6.10	134.43	126.50
1	6	98	U	C5-C6-N1	-6.10	119.65	122.70
1	6	678	A	N7-C8-N9	6.10	116.85	113.80
1	6	1442	U	N3-C2-O2	-6.10	117.93	122.20
36	5	2414	G	C6-C5-N7	-6.10	126.74	130.40
25	D3	45	GLY	N-CA-C	-6.10	97.85	113.10
36	1	557	A	C2-N3-C4	-6.10	107.55	110.60
36	1	1197	A	C5-N7-C8	-6.10	100.85	103.90
36	1	2296	A	C6-C5-N7	-6.10	128.03	132.30
36	1	2325	G	C4-C5-N7	6.10	113.24	110.80
36	1	2900	A	N1-C6-N6	-6.10	114.94	118.60
36	1	2957	G	C4-C5-N7	6.10	113.24	110.80
36	1	3318	G	C6-C5-N7	-6.10	126.74	130.40
1	6	460	A	N7-C8-N9	6.10	116.85	113.80
36	5	513	G	C5-C6-N1	6.10	114.55	111.50
36	5	1205	A	C8-N9-C4	6.10	108.24	105.80
36	5	1637	A	C4-C5-N7	-6.10	107.65	110.70
36	5	2813	A	C4-C5-N7	6.10	113.75	110.70
36	5	2837	A	C5-N7-C8	6.10	106.95	103.90
37	7	1	G	C8-N9-C1'	-6.10	119.07	127.00
1	2	992	A	N1-C6-N6	6.10	122.26	118.60
36	1	102	C	OP1-P-OP2	-6.10	110.45	119.60
36	1	404	G	C4-C5-N7	6.10	113.24	110.80
36	1	2875	U	C2-N3-C4	6.10	130.66	127.00
36	1	2937	G	N3-C4-N9	-6.10	122.34	126.00
36	1	3120	C	C2-N1-C1'	-6.10	112.09	118.80
38	4	113	U	C5-C4-O4	6.10	129.56	125.90
1	6	1418	G	C4-C5-C6	6.10	122.46	118.80
1	6	1644	C	C5-C6-N1	-6.10	117.95	121.00
36	5	720	A	N9-C4-C5	6.10	108.24	105.80
36	5	1176	C	C6-N1-C1'	6.10	128.12	120.80
36	5	2145	A	C6-C5-N7	-6.10	128.03	132.30
1	2	19	A	C5-C6-N6	-6.10	118.82	123.70
1	2	25	C	N1-C2-N3	6.10	123.47	119.20
36	1	657	A	C5-C6-N6	-6.10	118.82	123.70
36	1	2374	C	C4-C5-C6	6.10	120.45	117.40
1	6	1002	G	N3-C4-C5	6.10	131.65	128.60
36	5	218	G	C8-N9-C4	-6.10	103.96	106.40
36	5	2769	A	C8-N9-C4	-6.10	103.36	105.80
36	1	1172	G	N7-C8-N9	6.09	116.15	113.10
36	1	1514	G	C6-C5-N7	-6.09	126.74	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2148	U	OP1-P-OP2	6.09	128.74	119.60
36	1	2866	U	C5-C4-O4	6.09	129.56	125.90
36	1	3232	G	C5-C6-N1	-6.09	108.45	111.50
37	3	104	A	C4-C5-N7	-6.09	107.65	110.70
44	L7	131	GLU	C-N-CD	6.09	141.20	128.40
1	6	1	U	N1-C2-O2	6.09	127.07	122.80
1	6	1243	G	N3-C4-C5	-6.09	125.55	128.60
1	6	1556	A	C5-C6-N6	-6.09	118.82	123.70
36	5	890	C	N1-C2-O2	6.09	122.56	118.90
36	5	960	U	OP1-P-O3'	-6.09	91.79	105.20
36	5	1433	A	OP1-P-OP2	-6.09	110.46	119.60
36	5	2355	G	C5-N7-C8	-6.09	101.25	104.30
36	5	2370	G	C5-C6-N1	-6.09	108.45	111.50
36	5	2794	G	C6-N1-C2	-6.09	121.44	125.10
36	5	2824	G	C5-N7-C8	-6.09	101.25	104.30
36	5	3067	C	N3-C4-C5	6.09	124.34	121.90
37	7	91	G	N1-C2-N2	-6.09	110.72	116.20
38	8	126	A	N1-C6-N6	-6.09	114.94	118.60
36	1	3061	G	C4-C5-N7	6.09	113.24	110.80
36	5	95	A	C2-N3-C4	-6.09	107.55	110.60
36	5	648	C	C2-N1-C1'	-6.09	112.10	118.80
36	5	1405	U	N1-C2-O2	-6.09	118.53	122.80
36	5	2945	G	C4-N9-C1'	6.09	134.42	126.50
36	5	3276	G	O5'-P-OP2	6.09	118.01	110.70
1	2	1029	U	C5-C6-N1	-6.09	119.65	122.70
1	2	1599	C	N3-C2-O2	-6.09	117.64	121.90
36	1	157	A	C6-N1-C2	-6.09	114.94	118.60
36	1	364	G	C5-N7-C8	-6.09	101.25	104.30
36	1	1374	G	C6-N1-C2	-6.09	121.44	125.10
36	1	1453	A	O5'-P-OP2	-6.09	100.22	105.70
36	1	3126	C	O5'-P-OP2	-6.09	100.22	105.70
1	6	922	G	C8-N9-C1'	-6.09	119.08	127.00
1	6	1362	U	N3-C2-O2	-6.09	117.94	122.20
1	6	1547	A	N3-C4-C5	6.09	131.06	126.80
36	5	504	A	C8-N9-C4	6.09	108.24	105.80
36	5	830	A	C2-N3-C4	-6.09	107.55	110.60
36	5	850	U	N3-C2-O2	6.09	126.46	122.20
36	5	943	U	N1-C2-N3	6.09	118.56	114.90
36	5	1113	G	N3-C4-C5	6.09	131.65	128.60
36	5	3019	U	N1-C2-O2	6.09	127.06	122.80
1	2	334	G	C5-N7-C8	6.09	107.34	104.30
1	2	1252	C	C6-N1-C2	6.09	122.74	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	278	U	N1-C2-N3	6.09	118.55	114.90
36	1	803	C	N3-C2-O2	-6.09	117.64	121.90
36	1	963	G	N1-C2-N2	-6.09	110.72	116.20
36	1	1098	A	C6-N1-C2	-6.09	114.95	118.60
36	1	1164	G	N1-C2-N2	6.09	121.68	116.20
36	1	1207	G	C5-N7-C8	-6.09	101.25	104.30
36	1	1301	A	O5'-P-OP1	-6.09	100.22	105.70
36	1	1329	U	OP1-P-O3'	6.09	118.59	105.20
36	1	1452	A	O5'-P-OP1	-6.09	100.22	105.70
36	1	1526	U	C6-N1-C1'	-6.09	112.67	121.20
36	1	2609	A	C4-C5-C6	6.09	120.05	117.00
36	1	3031	G	C8-N9-C1'	6.09	134.92	127.00
1	6	1026	A	OP2-P-O3'	6.09	118.60	105.20
1	6	1576	A	N1-C6-N6	6.09	122.25	118.60
1	6	1765	A	N9-C4-C5	6.09	108.24	105.80
36	5	333	G	OP2-P-O3'	6.09	118.60	105.20
36	5	1606	U	C5-C6-N1	-6.09	119.66	122.70
36	5	2347	U	C5-C4-O4	6.09	129.55	125.90
36	5	2682	C	OP1-P-OP2	-6.09	110.47	119.60
36	5	2881	C	O5'-P-OP2	6.09	118.01	110.70
36	5	3323	A	C6-N1-C2	-6.09	114.95	118.60
38	8	87	G	N3-C4-C5	-6.09	125.56	128.60
1	2	1784	C	C6-N1-C2	-6.09	117.86	120.30
36	1	789	A	O5'-P-OP2	-6.09	100.22	105.70
36	1	2175	U	C4-C5-C6	6.09	123.35	119.70
36	1	2652	U	N1-C2-O2	-6.09	118.54	122.80
50	M4	121	MET	CB-CG-SD	-6.09	94.14	112.40
1	6	1485	C	N3-C2-O2	6.09	126.16	121.90
36	5	2381	G	N7-C8-N9	-6.09	110.06	113.10
36	5	289	A	C6-C5-N7	-6.09	128.04	132.30
36	5	1798	A	N1-C6-N6	6.09	122.25	118.60
36	5	2845	A	C5-N7-C8	-6.09	100.86	103.90
36	5	2920	U	N1-C2-O2	6.09	127.06	122.80
36	1	1521	G	C8-N9-C1'	6.08	134.91	127.00
36	1	2376	G	C5-C6-N1	6.08	114.54	111.50
36	1	3053	G	N1-C2-N3	6.08	127.55	123.90
36	1	3147	G	N1-C6-O6	-6.08	116.25	119.90
36	1	3270	U	O5'-P-OP1	-6.08	100.22	105.70
38	4	42	G	OP1-P-OP2	-6.08	110.47	119.60
1	6	1106	U	N3-C4-O4	6.08	123.66	119.40
1	6	1513	G	C4-C5-C6	6.08	122.45	118.80
36	5	796	U	C5-C6-N1	6.08	125.74	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2861	U	N1-C2-N3	-6.08	111.25	114.90
1	2	880	C	N3-C4-C5	-6.08	119.47	121.90
1	2	1670	G	N3-C4-C5	-6.08	125.56	128.60
36	1	25	U	C4-C5-C6	6.08	123.35	119.70
36	1	503	C	O4'-C1'-N1	6.08	113.07	108.20
36	1	1429	G	N3-C2-N2	6.08	124.16	119.90
36	1	1542	G	N3-C4-C5	6.08	131.64	128.60
36	1	3243	A	N1-C2-N3	-6.08	126.26	129.30
1	6	115	G	C2-N3-C4	-6.08	108.86	111.90
1	6	1178	G	C8-N9-C1'	-6.08	119.09	127.00
1	6	1324	G	N7-C8-N9	6.08	116.14	113.10
36	5	217	U	N3-C2-O2	-6.08	117.94	122.20
36	5	1420	C	C2-N1-C1'	-6.08	112.11	118.80
36	5	2859	U	N3-C4-O4	-6.08	115.14	119.40
36	5	3046	A	C6-N1-C2	-6.08	114.95	118.60
1	2	730	G	C4-N9-C1'	6.08	134.41	126.50
36	1	383	G	N1-C6-O6	-6.08	116.25	119.90
36	1	1379	G	C2-N3-C4	-6.08	108.86	111.90
36	1	1399	A	N3-C4-N9	-6.08	122.53	127.40
38	4	40	A	N3-C4-C5	-6.08	122.54	126.80
1	6	1128	C	N1-C2-O2	-6.08	115.25	118.90
1	6	1176	G	N1-C6-O6	6.08	123.55	119.90
1	6	1534	G	N1-C2-N2	6.08	121.67	116.20
36	5	776	U	C5-C4-O4	6.08	129.55	125.90
36	5	963	G	OP1-P-OP2	-6.08	110.48	119.60
36	5	1260	A	C8-N9-C4	-6.08	103.37	105.80
36	5	1489	A	C4-N9-C1'	6.08	137.25	126.30
36	5	2628	A	C8-N9-C4	-6.08	103.37	105.80
36	5	2799	A	N1-C6-N6	-6.08	114.95	118.60
36	5	2932	U	C5-C6-N1	-6.08	119.66	122.70
44	17	100	ARG	NE-CZ-NH2	-6.08	117.26	120.30
36	1	372	A	N1-C6-N6	6.08	122.25	118.60
36	1	2910	A	C5-C6-N6	6.08	128.56	123.70
36	1	3142	A	C4-C5-N7	-6.08	107.66	110.70
38	4	13	A	N1-C2-N3	6.08	132.34	129.30
38	4	98	U	N3-C4-O4	6.08	123.66	119.40
36	5	1922	A	N3-C4-C5	6.08	131.06	126.80
36	5	2709	C	N3-C4-N4	6.08	122.26	118.00
1	2	1541	G	C4-C5-C6	6.08	122.45	118.80
36	1	1210	U	C5-C6-N1	-6.08	119.66	122.70
36	1	1858	A	C5-C6-N6	-6.08	118.84	123.70
36	1	2541	U	P-O3'-C3'	6.08	126.99	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2846	U	C2-N1-C1'	6.08	125.00	117.70
79	Q3	23	ARG	NE-CZ-NH2	-6.08	117.26	120.30
1	6	597	G	N9-C4-C5	-6.08	102.97	105.40
1	6	611	U	N3-C4-O4	6.08	123.65	119.40
1	6	858	G	C6-C5-N7	-6.08	126.75	130.40
1	6	1038	U	N3-C4-O4	6.08	123.66	119.40
1	6	1495	C	O5'-P-OP1	-6.08	100.23	105.70
36	5	675	C	C5-C4-N4	-6.08	115.94	120.20
36	5	2408	U	N3-C4-O4	6.08	123.65	119.40
36	5	3032	A	C6-C5-N7	6.08	136.56	132.30
37	7	118	A	N1-C2-N3	6.08	132.34	129.30
36	1	226	C	C2-N1-C1'	-6.08	112.11	118.80
36	1	3102	G	N1-C6-O6	-6.08	116.25	119.90
36	1	3266	G	C4-C5-C6	6.08	122.45	118.80
36	5	396	A	N3-C4-N9	-6.08	122.54	127.40
36	5	552	G	N3-C2-N2	-6.08	115.65	119.90
36	5	934	G	C5-N7-C8	-6.08	101.26	104.30
36	5	2727	A	C5-C6-N6	6.08	128.56	123.70
1	2	420	A	C5-C6-N6	-6.08	118.84	123.70
1	2	1277	G	N7-C8-N9	6.08	116.14	113.10
36	1	9	U	C6-N1-C2	6.08	124.65	121.00
36	1	1509	A	N9-C4-C5	-6.08	103.37	105.80
36	1	2743	A	N7-C8-N9	-6.08	110.76	113.80
36	1	2820	A	N3-C4-N9	-6.08	122.54	127.40
38	4	30	C	N3-C4-N4	-6.08	113.75	118.00
79	Q3	29	LEU	CA-CB-CG	-6.08	101.33	115.30
1	6	457	G	C6-C5-N7	-6.08	126.75	130.40
36	5	501	A	C6-N1-C2	-6.08	114.95	118.60
36	5	511	G	C5-C6-N1	-6.08	108.46	111.50
36	5	639	G	N1-C6-O6	6.08	123.55	119.90
36	5	688	G	C8-N9-C4	-6.08	103.97	106.40
36	5	822	G	C4-N9-C1'	6.08	134.40	126.50
36	5	1848	G	OP1-P-OP2	6.08	128.72	119.60
36	5	2434	U	C4-C5-C6	6.08	123.34	119.70
36	5	2672	G	OP1-P-OP2	6.08	128.71	119.60
1	2	1200	G	C5-C6-O6	-6.07	124.96	128.60
36	1	625	G	N7-C8-N9	-6.07	110.06	113.10
36	1	648	C	C2-N1-C1'	6.07	125.48	118.80
36	1	1478	C	N3-C4-C5	-6.07	119.47	121.90
36	5	234	G	O5'-P-OP2	-6.07	100.23	105.70
36	5	1056	U	N1-C2-O2	6.07	127.05	122.80
36	5	1382	G	C4-C5-N7	6.07	113.23	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1914	G	N9-C4-C5	6.07	107.83	105.40
77	q1	17	ARG	NE-CZ-NH1	-6.07	117.26	120.30
1	2	360	A	C6-N1-C2	6.07	122.24	118.60
36	1	30	G	C4-C5-C6	-6.07	115.16	118.80
36	1	2978	U	C6-N1-C2	-6.07	117.36	121.00
36	1	3156	U	C6-N1-C2	6.07	124.64	121.00
36	5	713	U	C5-C6-N1	-6.07	119.66	122.70
36	5	3310	A	C2-N3-C4	-6.07	107.56	110.60
1	2	167	U	C6-N1-C2	6.07	124.64	121.00
1	2	1112	G	N1-C6-O6	6.07	123.54	119.90
1	2	1191	U	N1-C2-N3	6.07	118.54	114.90
36	1	926	A	C4-C5-N7	6.07	113.74	110.70
36	1	3349	C	N1-C2-O2	6.07	122.54	118.90
1	6	1006	C	C5-C6-N1	-6.07	117.97	121.00
1	6	1199	G	O5'-P-OP2	-6.07	100.24	105.70
36	5	723	U	N1-C2-N3	6.07	118.54	114.90
36	5	854	G	N1-C2-N2	6.07	121.66	116.20
36	5	1385	C	N3-C4-C5	-6.07	119.47	121.90
36	5	1599	G	OP1-P-O3'	6.07	118.55	105.20
36	5	1807	G	C8-N9-C4	6.07	108.83	106.40
36	5	1873	U	C6-N1-C2	-6.07	117.36	121.00
36	5	2760	C	O5'-P-OP2	-6.07	100.24	105.70
37	7	9	C	OP1-P-OP2	-6.07	110.49	119.60
36	1	2622	C	N1-C2-N3	6.07	123.45	119.20
1	6	593	U	C6-N1-C2	-6.07	117.36	121.00
36	5	2413	A	O5'-P-OP2	6.07	117.98	110.70
36	5	2866	U	N3-C2-O2	-6.07	117.95	122.20
36	5	2947	G	C4-C5-N7	6.07	113.23	110.80
36	5	3044	G	C4-C5-C6	6.07	122.44	118.80
1	2	1647	U	N3-C2-O2	-6.07	117.95	122.20
36	1	80	G	OP2-P-O3'	6.07	118.55	105.20
36	1	1526	U	C2-N1-C1'	6.07	124.98	117.70
1	6	359	A	C6-C5-N7	6.07	136.55	132.30
1	6	457	G	N1-C6-O6	6.07	123.54	119.90
1	6	1759	C	N3-C4-N4	6.07	122.25	118.00
36	5	95	A	N3-C4-N9	-6.07	122.55	127.40
36	5	1389	G	O5'-P-OP2	6.07	117.98	110.70
36	5	2920	U	C2-N3-C4	-6.07	123.36	127.00
36	5	3105	U	OP1-P-O3'	-6.07	91.85	105.20
36	5	3272	C	N1-C2-N3	6.07	123.45	119.20
1	2	191	C	C2-N1-C1'	-6.07	112.13	118.80
1	2	1354	G	C8-N9-C4	-6.07	103.97	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	368	G	N1-C2-N3	6.07	127.54	123.90
36	1	981	U	N3-C4-C5	-6.07	110.96	114.60
36	1	2427	U	N3-C4-O4	-6.07	115.15	119.40
36	1	3011	A	N3-C4-N9	-6.07	122.55	127.40
36	1	3260	G	C4-C5-C6	6.07	122.44	118.80
36	1	3388	C	N1-C2-O2	6.07	122.54	118.90
69	O3	21	ARG	NE-CZ-NH2	-6.07	117.27	120.30
36	5	1423	C	C6-N1-C2	-6.07	117.87	120.30
36	5	2173	U	C6-N1-C2	-6.07	117.36	121.00
36	5	2428	U	N3-C4-C5	6.07	118.24	114.60
36	1	681	U	C2-N1-C1'	6.06	124.98	117.70
36	1	1439	U	OP2-P-O3'	-6.06	91.86	105.20
36	5	1177	G	C8-N9-C1'	-6.06	119.12	127.00
36	5	1236	G	C4-N9-C1'	6.06	134.38	126.50
36	5	1430	U	C2-N3-C4	-6.06	123.36	127.00
36	1	24	G	C5-C6-N1	-6.06	108.47	111.50
36	1	805	G	C5-C6-N1	-6.06	108.47	111.50
36	1	1519	G	N3-C4-C5	6.06	131.63	128.60
36	1	2755	C	N3-C4-C5	6.06	124.33	121.90
36	1	3059	G	C8-N9-C4	6.06	108.83	106.40
36	1	3184	A	C5-C6-N1	6.06	120.73	117.70
1	6	1	U	C6-N1-C2	-6.06	117.36	121.00
1	6	1031	U	C5-C4-O4	6.06	129.54	125.90
1	6	1121	C	C2-N1-C1'	6.06	125.47	118.80
1	6	1303	U	N3-C2-O2	6.06	126.44	122.20
1	6	1409	G	C8-N9-C1'	-6.06	119.12	127.00
36	5	712	G	C5-C6-N1	6.06	114.53	111.50
36	5	911	C	C4-C5-C6	6.06	120.43	117.40
36	5	1164	G	N3-C2-N2	-6.06	115.66	119.90
36	5	1448	U	C2-N3-C4	-6.06	123.36	127.00
36	5	1632	A	N7-C8-N9	-6.06	110.77	113.80
36	5	1719	G	N3-C4-N9	-6.06	122.36	126.00
36	5	2431	C	C4-C5-C6	-6.06	114.37	117.40
36	5	3040	A	O5'-P-OP1	-6.06	100.24	105.70
36	5	3143	C	C5-C6-N1	6.06	124.03	121.00
36	1	1439	U	C2-N1-C1'	6.06	124.97	117.70
36	1	3112	G	OP1-P-O3'	6.06	118.53	105.20
36	5	2195	C	N3-C2-O2	-6.06	117.66	121.90
42	15	15	ARG	NE-CZ-NH1	-6.06	117.27	120.30
1	2	967	A	C4-C5-N7	6.06	113.73	110.70
1	2	1438	G	C8-N9-C4	6.06	108.82	106.40
36	1	317	A	C8-N9-C4	-6.06	103.38	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1838	G	N1-C2-N3	6.06	127.54	123.90
36	1	3007	U	C5-C6-N1	-6.06	119.67	122.70
1	6	310	C	C5-C4-N4	-6.06	115.96	120.20
1	6	1000	C	C5-C4-N4	6.06	124.44	120.20
36	5	376	G	C4-C5-C6	6.06	122.44	118.80
36	5	865	U	N1-C2-N3	6.06	118.53	114.90
36	5	972	A	N9-C4-C5	6.06	108.22	105.80
36	5	1620	U	N1-C2-O2	6.06	127.04	122.80
36	5	1793	C	O4'-C1'-N1	-6.06	103.35	108.20
36	5	1830	G	OP1-P-O3'	6.06	118.53	105.20
36	5	3026	G	C8-N9-C1'	-6.06	119.12	127.00
1	2	1456	C	C6-N1-C2	-6.06	117.88	120.30
36	1	1209	G	N1-C2-N2	-6.06	110.75	116.20
37	3	92	A	C5-N7-C8	-6.06	100.87	103.90
1	6	1031	U	N1-C2-N3	6.06	118.53	114.90
1	6	1679	G	C8-N9-C4	-6.06	103.98	106.40
36	5	881	C	C2-N1-C1'	6.06	125.46	118.80
36	5	3304	U	C4-C5-C6	6.06	123.33	119.70
1	2	6	G	N3-C4-N9	6.06	129.63	126.00
36	1	2698	G	C5-C6-O6	-6.06	124.97	128.60
36	5	1879	A	O5'-P-OP2	-6.06	100.25	105.70
36	5	2200	U	N1-C2-N3	6.06	118.53	114.90
36	5	2381	G	O5'-P-OP1	6.06	117.97	110.70
36	5	2418	G	C8-N9-C4	6.06	108.82	106.40
37	7	28	C	C2-N3-C4	-6.06	116.87	119.90
1	2	163	G	C8-N9-C4	-6.05	103.98	106.40
36	1	78	U	O5'-P-OP2	6.05	117.97	110.70
36	1	1050	U	OP2-P-O3'	6.05	118.52	105.20
36	1	1153	A	C6-C5-N7	-6.05	128.06	132.30
36	1	1428	A	C5-N7-C8	-6.05	100.87	103.90
36	1	1939	G	N1-C2-N2	-6.05	110.75	116.20
36	1	2639	G	N9-C4-C5	6.05	107.82	105.40
36	1	2936	A	C4-C5-C6	-6.05	113.97	117.00
36	1	3226	A	N1-C2-N3	6.05	132.33	129.30
38	4	89	A	C8-N9-C4	6.05	108.22	105.80
1	6	764	U	N3-C4-C5	-6.05	110.97	114.60
36	5	355	A	N1-C2-N3	6.05	132.33	129.30
36	5	1518	U	C4-C5-C6	6.05	123.33	119.70
36	5	2839	G	C6-C5-N7	6.05	134.03	130.40
36	5	3171	U	OP2-P-O3'	6.05	118.52	105.20
37	7	97	A	C5-C6-N1	6.05	120.73	117.70
1	2	579	A	N1-C6-N6	-6.05	114.97	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	966	U	C6-N1-C2	-6.05	117.37	121.00
1	2	386	G	C5-C6-O6	6.05	132.23	128.60
1	2	1417	A	C8-N9-C4	6.05	108.22	105.80
1	2	1550	A	C5-N7-C8	-6.05	100.87	103.90
1	2	1749	A	O5'-P-OP1	-6.05	100.25	105.70
36	1	787	G	C4-C5-C6	6.05	122.43	118.80
36	1	1417	G	C5-N7-C8	-6.05	101.27	104.30
36	1	1835	A	O4'-C1'-N9	-6.05	103.36	108.20
36	1	2958	A	C8-N9-C4	-6.05	103.38	105.80
36	1	3032	A	C4-C5-N7	-6.05	107.67	110.70
37	3	36	C	C6-N1-C1'	-6.05	113.54	120.80
1	6	901	G	N1-C2-N3	-6.05	120.27	123.90
1	6	1340	U	C5-C4-O4	6.05	129.53	125.90
36	5	285	A	C8-N9-C4	-6.05	103.38	105.80
36	5	354	U	C6-N1-C1'	-6.05	112.73	121.20
36	5	2756	C	C2-N1-C1'	6.05	125.46	118.80
36	5	2942	C	C2-N1-C1'	-6.05	112.14	118.80
1	2	1455	G	C5-C6-O6	6.05	132.23	128.60
36	1	1180	A	C4-C5-N7	-6.05	107.68	110.70
36	1	2115	G	N1-C6-O6	6.05	123.53	119.90
1	6	555	A	N9-C4-C5	6.05	108.22	105.80
1	6	891	A	N7-C8-N9	-6.05	110.78	113.80
1	6	1207	C	C6-N1-C1'	-6.05	113.54	120.80
1	6	1615	C	C2-N3-C4	-6.05	116.88	119.90
36	5	42	C	C2-N1-C1'	6.05	125.45	118.80
36	5	196	G	C8-N9-C4	-6.05	103.98	106.40
36	5	752	C	OP1-P-O3'	6.05	118.51	105.20
36	5	3001	C	N3-C4-C5	6.05	124.32	121.90
36	5	3307	A	C2-N3-C4	-6.05	107.58	110.60
36	1	583	G	N7-C8-N9	-6.05	110.08	113.10
36	1	688	G	C8-N9-C1'	-6.05	119.14	127.00
36	1	865	U	C5-C4-O4	6.05	129.53	125.90
36	1	2278	C	OP1-P-O3'	6.05	118.50	105.20
55	M9	103	ARG	NE-CZ-NH1	-6.05	117.28	120.30
1	6	1746	A	OP1-P-OP2	-6.05	110.53	119.60
36	5	630	A	C5-N7-C8	6.05	106.92	103.90
36	5	690	A	C8-N9-C4	6.05	108.22	105.80
36	5	2647	A	C2-N3-C4	-6.05	107.58	110.60
1	2	61	A	N1-C6-N6	6.05	122.23	118.60
1	2	1777	G	C8-N9-C4	-6.05	103.98	106.40
36	1	99	A	C5-C6-N6	6.05	128.54	123.70
36	1	430	U	C2-N3-C4	-6.05	123.37	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	674	G	C6-C5-N7	-6.05	126.77	130.40
36	1	722	G	N3-C4-N9	6.05	129.63	126.00
36	1	2160	G	C2-N3-C4	-6.05	108.88	111.90
1	6	407	A	C6-C5-N7	-6.05	128.07	132.30
1	6	1136	U	O5'-P-OP2	6.05	117.96	110.70
1	6	1200	G	OP1-P-O3'	6.05	118.50	105.20
1	6	1523	G	C6-N1-C2	-6.05	121.47	125.10
36	5	788	C	OP2-P-O3'	6.05	118.50	105.20
36	5	935	U	N3-C4-O4	6.05	123.63	119.40
36	5	982	C	C5-C4-N4	-6.05	115.97	120.20
36	5	1186	G	OP1-P-OP2	6.05	128.67	119.60
36	5	1525	G	C8-N9-C1'	-6.05	119.14	127.00
36	5	3307	A	N1-C2-N3	6.05	132.32	129.30
37	7	89	G	N9-C4-C5	-6.05	102.98	105.40
66	o0	104	LEU	CA-CB-CG	6.05	129.21	115.30
36	1	100	A	C4-C5-C6	6.04	120.02	117.00
36	1	358	G	N9-C4-C5	-6.04	102.98	105.40
36	1	729	C	N1-C2-N3	6.04	123.43	119.20
36	1	1389	G	O5'-P-OP1	-6.04	100.26	105.70
36	5	2827	U	C6-N1-C2	6.04	124.63	121.00
36	5	3215	A	O4'-C1'-N9	-6.04	103.36	108.20
36	1	1179	A	N7-C8-N9	-6.04	110.78	113.80
36	1	1204	A	N3-C4-C5	6.04	131.03	126.80
36	1	1429	G	C4-N9-C1'	6.04	134.36	126.50
36	1	2223	A	N1-C2-N3	6.04	132.32	129.30
36	1	2679	A	O4'-C1'-N9	6.04	113.04	108.20
36	1	2813	A	C5-N7-C8	6.04	106.92	103.90
37	3	7	G	C4-C5-N7	-6.04	108.38	110.80
1	6	948	G	N9-C4-C5	-6.04	102.98	105.40
36	5	63	A	C4-C5-C6	6.04	120.02	117.00
36	5	297	G	C4-N9-C1'	6.04	134.35	126.50
36	5	646	A	O5'-P-OP1	-6.04	100.26	105.70
36	5	971	G	C6-N1-C2	-6.04	121.47	125.10
36	5	1434	G	N7-C8-N9	6.04	116.12	113.10
36	5	1884	A	C6-C5-N7	-6.04	128.07	132.30
38	8	2	A	C2-N3-C4	-6.04	107.58	110.60
36	1	1502	C	C6-N1-C2	-6.04	117.88	120.30
36	1	1548	C	C5-C4-N4	-6.04	115.97	120.20
1	6	800	U	N1-C2-N3	6.04	118.53	114.90
36	5	355	A	C5-C6-N1	-6.04	114.68	117.70
36	5	1333	C	N3-C4-N4	6.04	122.23	118.00
36	5	1856	C	N3-C4-N4	6.04	122.23	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3002	C	C5-C4-N4	-6.04	115.97	120.20
36	5	3207	U	O4'-C1'-N1	6.04	113.03	108.20
36	5	3232	G	N1-C6-O6	6.04	123.53	119.90
1	2	1456	C	O4'-C1'-N1	6.04	113.03	108.20
36	1	151	A	C8-N9-C4	-6.04	103.38	105.80
36	1	2906	C	O5'-P-OP1	-6.04	100.26	105.70
1	6	16	G	O5'-P-OP2	-6.04	100.26	105.70
1	6	542	A	N1-C2-N3	6.04	132.32	129.30
36	5	963	G	C6-N1-C2	-6.04	121.48	125.10
36	5	1465	A	N1-C2-N3	6.04	132.32	129.30
1	2	307	G	N1-C6-O6	-6.04	116.28	119.90
36	1	75	G	O5'-P-OP1	6.04	117.95	110.70
36	1	589	A	N7-C8-N9	-6.04	110.78	113.80
36	1	641	C	C4-C5-C6	-6.04	114.38	117.40
36	1	1195	A	N9-C4-C5	6.04	108.22	105.80
36	1	1323	G	C8-N9-C1'	-6.04	119.15	127.00
36	1	1482	A	N7-C8-N9	6.04	116.82	113.80
36	1	3363	U	N3-C2-O2	-6.04	117.97	122.20
38	4	38	U	N3-C4-C5	-6.04	110.98	114.60
36	5	1323	G	O5'-P-OP2	-6.04	100.27	105.70
36	5	2641	U	N3-C2-O2	-6.04	117.97	122.20
36	5	2919	A	N3-C4-N9	-6.04	122.57	127.40
36	5	3036	G	C4-C5-N7	-6.04	108.38	110.80
36	1	2234	G	C8-N9-C4	6.04	108.81	106.40
36	1	2753	G	C4-C5-N7	-6.04	108.39	110.80
36	1	2770	G	OP2-P-O3'	6.04	118.48	105.20
36	5	774	G	C6-C5-N7	-6.04	126.78	130.40
36	5	1777	U	O5'-P-OP1	-6.04	100.27	105.70
38	8	113	U	N3-C4-C5	-6.04	110.98	114.60
36	1	1414	G	C5-N7-C8	-6.04	101.28	104.30
36	1	2818	U	P-O3'-C3'	6.04	126.94	119.70
36	1	3075	G	C2-N3-C4	-6.04	108.88	111.90
37	3	26	C	N1-C2-O2	6.04	122.52	118.90
49	M3	21	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	6	319	U	P-O3'-C3'	-6.04	112.46	119.70
14	c2	58	LEU	CA-CB-CG	6.04	129.18	115.30
36	5	1465	A	N7-C8-N9	6.04	116.82	113.80
36	5	1535	A	C5-C6-N1	6.04	120.72	117.70
36	5	3159	C	C2-N3-C4	-6.04	116.88	119.90
1	2	360	A	N3-C4-C5	6.03	131.02	126.80
1	2	1002	G	N3-C4-N9	6.03	129.62	126.00
1	2	1757	G	C6-N1-C2	-6.03	121.48	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	156	G	C8-N9-C1'	-6.03	119.16	127.00
36	1	645	A	O5'-P-OP2	6.03	117.94	110.70
36	1	1084	A	N7-C8-N9	6.03	116.82	113.80
36	1	1388	U	C5-C6-N1	-6.03	119.68	122.70
36	1	2409	G	N9-C4-C5	-6.03	102.99	105.40
36	1	2555	G	C8-N9-C4	6.03	108.81	106.40
36	1	2626	A	O4'-C1'-N9	-6.03	103.37	108.20
36	1	2772	C	C2-N3-C4	6.03	122.92	119.90
1	6	1698	G	P-O3'-C3'	6.03	126.94	119.70
34	sR	274	LEU	CA-CB-CG	-6.03	101.42	115.30
36	5	592	A	N9-C4-C5	-6.03	103.39	105.80
36	5	922	U	O5'-P-OP1	-6.03	100.27	105.70
36	5	2426	U	C6-N1-C2	-6.03	117.38	121.00
36	5	2646	C	O5'-P-OP1	6.03	117.94	110.70
36	5	3091	A	N7-C8-N9	6.03	116.82	113.80
36	5	433	A	C4-C5-C6	6.03	120.02	117.00
36	5	3242	G	C5-C6-O6	6.03	132.22	128.60
37	7	25	G	N1-C6-O6	-6.03	116.28	119.90
36	1	1142	G	C5-N7-C8	-6.03	101.28	104.30
36	1	1385	C	N3-C4-N4	-6.03	113.78	118.00
36	1	1450	G	C5-N7-C8	-6.03	101.28	104.30
36	1	1520	G	C4-C5-N7	6.03	113.21	110.80
36	1	2174	G	OP1-P-O3'	6.03	118.47	105.20
36	1	2714	G	C8-N9-C4	-6.03	103.99	106.40
36	1	2834	G	N1-C2-N3	6.03	127.52	123.90
36	1	3103	A	N1-C6-N6	-6.03	114.98	118.60
1	6	103	A	C6-C5-N7	-6.03	128.08	132.30
1	6	176	C	C2-N1-C1'	6.03	125.43	118.80
1	6	880	C	N3-C2-O2	-6.03	117.68	121.90
1	6	1601	G	N7-C8-N9	6.03	116.12	113.10
1	6	1773	C	C2-N3-C4	6.03	122.92	119.90
36	5	39	A	N1-C6-N6	-6.03	114.98	118.60
36	5	588	G	C8-N9-C1'	-6.03	119.16	127.00
36	5	1670	C	N1-C2-O2	6.03	122.52	118.90
36	5	2185	G	N1-C2-N3	6.03	127.52	123.90
36	5	2908	G	C6-C5-N7	-6.03	126.78	130.40
36	5	3362	A	C6-C5-N7	-6.03	128.08	132.30
1	2	1186	U	N3-C4-O4	-6.03	115.18	119.40
36	1	227	G	C4-C5-C6	6.03	122.42	118.80
36	1	2602	G	N1-C6-O6	-6.03	116.28	119.90
36	1	2635	A	N1-C2-N3	6.03	132.31	129.30
1	6	1552	U	N3-C4-O4	6.03	123.62	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1439	U	C5-C4-O4	-6.03	122.28	125.90
36	1	1166	G	C5-C6-N1	-6.03	108.49	111.50
36	1	2891	U	N3-C2-O2	6.03	126.42	122.20
36	1	2943	G	OP1-P-O3'	6.03	118.46	105.20
36	1	2971	A	N1-C6-N6	6.03	122.22	118.60
1	6	1300	A	C5-C6-N6	-6.03	118.88	123.70
36	5	1303	A	C6-C5-N7	-6.03	128.08	132.30
36	1	96	G	C2-N3-C4	-6.03	108.89	111.90
36	1	3028	G	O5'-P-OP2	6.03	117.93	110.70
1	6	1311	U	N1-C2-N3	6.03	118.52	114.90
36	5	1751	G	C8-N9-C4	6.03	108.81	106.40
36	5	2243	A	N1-C6-N6	-6.03	114.98	118.60
36	5	2952	G	C8-N9-C1'	-6.03	119.17	127.00
1	2	316	A	C2-N3-C4	-6.02	107.59	110.60
1	2	566	C	N3-C2-O2	6.02	126.12	121.90
36	1	375	A	C5-N7-C8	-6.02	100.89	103.90
36	1	2352	A	C6-N1-C2	-6.02	114.98	118.60
36	5	3215	A	N7-C8-N9	-6.02	110.79	113.80
1	2	373	G	N3-C4-C5	-6.02	125.59	128.60
1	2	1423	U	C2-N1-C1'	6.02	124.93	117.70
1	2	1744	A	N1-C2-N3	6.02	132.31	129.30
36	1	269	G	C5-C6-O6	6.02	132.21	128.60
36	1	373	A	N1-C2-N3	6.02	132.31	129.30
36	1	652	G	C2-N3-C4	6.02	114.91	111.90
36	1	1323	G	C4-N9-C1'	6.02	134.33	126.50
36	1	2757	U	O4'-C1'-N1	6.02	113.02	108.20
36	1	2824	G	C4-C5-C6	6.02	122.41	118.80
36	1	3044	G	N3-C4-N9	-6.02	122.39	126.00
36	1	3295	A	N1-C2-N3	6.02	132.31	129.30
1	6	194	U	N1-C2-O2	6.02	127.02	122.80
1	6	627	C	N3-C4-C5	6.02	124.31	121.90
1	6	1474	G	C4-C5-C6	6.02	122.41	118.80
36	5	1188	U	N1-C2-O2	-6.02	118.58	122.80
36	5	3073	A	C6-N1-C2	-6.02	114.99	118.60
1	2	987	G	N3-C4-N9	6.02	129.61	126.00
1	2	1203	A	C8-N9-C4	-6.02	103.39	105.80
1	6	1610	G	C6-N1-C2	-6.02	121.49	125.10
1	2	790	U	O5'-P-OP2	-6.02	100.28	105.70
1	2	993	A	C5-C6-N6	-6.02	118.88	123.70
36	1	218	G	N3-C4-C5	6.02	131.61	128.60
36	1	580	C	C2-N1-C1'	-6.02	112.18	118.80
36	1	2276	G	O5'-P-OP2	-6.02	100.28	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2281	A	O4'-C1'-N9	6.02	113.02	108.20
36	1	2414	G	N1-C2-N3	6.02	127.51	123.90
36	1	2956	A	C2-N3-C4	-6.02	107.59	110.60
36	5	966	U	C5-C6-N1	6.02	125.71	122.70
36	5	1188	U	C4-C5-C6	6.02	123.31	119.70
36	5	1220	U	C2-N1-C1'	6.02	124.92	117.70
36	5	1447	G	O4'-C1'-N9	6.02	113.02	108.20
36	5	2952	G	C4-C5-C6	6.02	122.41	118.80
36	5	2990	G	C2-N3-C4	6.02	114.91	111.90
37	7	59	U	N3-C2-O2	-6.02	117.99	122.20
1	2	787	G	C8-N9-C4	-6.02	103.99	106.40
36	1	652	G	C5-C6-N1	6.02	114.51	111.50
36	1	2857	C	N3-C4-C5	-6.02	119.49	121.90
36	1	2979	U	OP1-P-O3'	-6.02	91.96	105.20
36	5	1675	G	N3-C4-N9	6.02	129.61	126.00
36	5	2620	G	C5-C6-N1	-6.02	108.49	111.50
36	5	2626	A	C8-N9-C4	6.02	108.21	105.80
36	5	2877	G	C8-N9-C1'	-6.02	119.18	127.00
36	5	3243	A	O5'-P-OP2	6.02	117.92	110.70
36	1	2248	C	OP1-P-O3'	6.02	118.44	105.20
1	6	1592	A	N1-C2-N3	6.02	132.31	129.30
36	5	396	A	C8-N9-C4	6.02	108.21	105.80
36	5	1171	G	N1-C2-N2	6.02	121.61	116.20
36	5	1668	G	C8-N9-C4	-6.02	103.99	106.40
52	m6	14	HIS	CB-CA-C	-6.02	98.37	110.40
1	2	417	A	P-O3'-C3'	6.01	126.92	119.70
1	2	1471	A	O5'-P-OP1	-6.01	100.29	105.70
36	1	592	A	C5-C6-N6	-6.01	118.89	123.70
36	1	1466	G	C8-N9-C1'	-6.01	119.18	127.00
36	1	2805	G	C5-C6-N1	6.01	114.51	111.50
36	1	2924	U	N1-C2-N3	6.01	118.51	114.90
1	6	798	C	N3-C4-C5	6.01	124.31	121.90
1	6	972	G	N9-C4-C5	-6.01	103.00	105.40
1	6	1090	C	N3-C2-O2	-6.01	117.69	121.90
36	5	1001	G	N3-C2-N2	6.01	124.11	119.90
36	5	2151	C	N3-C2-O2	6.01	126.11	121.90
36	5	2647	A	N9-C1'-C2'	-6.01	105.38	112.00
36	5	2914	G	C5-C6-N1	-6.01	108.49	111.50
36	1	1796	G	C4-C5-N7	-6.01	108.39	110.80
36	1	2923	U	C6-N1-C1'	6.01	129.62	121.20
37	3	45	A	O5'-P-OP2	-6.01	100.29	105.70
1	6	1114	G	C2-N3-C4	6.01	114.91	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	361	A	C4-C5-C6	6.01	120.01	117.00
36	5	1503	A	C8-N9-C4	6.01	108.20	105.80
1	2	1620	C	O5'-P-OP1	-6.01	100.29	105.70
36	1	218	G	C4-N9-C1'	-6.01	118.69	126.50
36	1	812	G	N1-C2-N2	-6.01	110.79	116.20
36	1	1005	G	N1-C2-N3	6.01	127.51	123.90
36	1	1137	C	N1-C2-O2	6.01	122.51	118.90
36	1	1180	A	C2-N3-C4	-6.01	107.59	110.60
36	1	1461	A	N1-C6-N6	6.01	122.21	118.60
36	1	1525	G	N3-C4-N9	6.01	129.61	126.00
36	1	1617	G	C8-N9-C4	6.01	108.81	106.40
36	1	2201	G	N3-C4-C5	-6.01	125.59	128.60
36	1	2349	U	N3-C2-O2	6.01	126.41	122.20
36	1	2414	G	N3-C4-N9	-6.01	122.39	126.00
36	1	3259	U	C6-N1-C2	-6.01	117.39	121.00
36	1	3344	A	O4'-C1'-N9	6.01	113.01	108.20
1	6	1243	G	C8-N9-C1'	-6.01	119.18	127.00
1	6	1422	A	O5'-P-OP1	-6.01	100.29	105.70
36	5	188	U	C2-N1-C1'	6.01	124.92	117.70
36	5	1005	G	N1-C2-N3	6.01	127.51	123.90
36	5	1149	G	O5'-P-OP1	6.01	117.92	110.70
36	5	1367	G	OP2-P-O3'	6.01	118.42	105.20
36	5	2654	C	C5-C6-N1	6.01	124.01	121.00
36	5	2947	G	N1-C2-N2	6.01	121.61	116.20
36	5	3373	U	C4-C5-C6	6.01	123.31	119.70
37	7	106	U	N3-C4-O4	-6.01	115.19	119.40
1	2	1146	G	N7-C8-N9	6.01	116.11	113.10
1	2	1217	A	N7-C8-N9	6.01	116.80	113.80
1	2	1765	A	N1-C6-N6	-6.01	115.00	118.60
36	1	1339	C	C6-N1-C1'	6.01	128.01	120.80
36	1	2287	C	OP2-P-O3'	6.01	118.42	105.20
37	3	8	G	N3-C4-N9	-6.01	122.39	126.00
1	6	102	U	OP1-P-O3'	6.01	118.42	105.20
1	6	1003	A	N3-C4-C5	6.01	131.01	126.80
1	6	1126	G	OP1-P-OP2	-6.01	110.59	119.60
1	6	1564	U	C2-N3-C4	-6.01	123.39	127.00
36	5	581	U	N3-C4-O4	6.01	123.61	119.40
36	5	1224	C	C5-C4-N4	6.01	124.41	120.20
36	5	1514	G	N1-C6-O6	6.01	123.51	119.90
36	5	1882	G	C8-N9-C4	-6.01	104.00	106.40
36	5	2686	A	C6-N1-C2	-6.01	115.00	118.60
36	5	2882	U	OP1-P-O3'	6.01	118.42	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3232	G	C4-C5-N7	6.01	113.20	110.80
36	5	3283	U	N3-C4-O4	6.01	123.61	119.40
36	1	2720	G	O5'-P-OP2	-6.01	100.29	105.70
36	1	2847	A	C5-N7-C8	-6.01	100.90	103.90
36	1	3185	U	N3-C4-O4	6.01	123.61	119.40
36	1	3316	A	C4-C5-C6	-6.01	114.00	117.00
1	6	288	A	O5'-P-OP1	-6.01	100.29	105.70
36	5	1017	C	N1-C2-O2	6.01	122.50	118.90
36	5	1061	A	C6-N1-C2	-6.01	115.00	118.60
36	5	2296	A	N3-C4-N9	6.01	132.21	127.40
43	16	175	LYS	CD-CE-NZ	6.01	125.52	111.70
1	2	1112	G	O5'-P-OP1	6.01	117.91	110.70
1	2	1197	C	C5-C6-N1	6.01	124.00	121.00
36	1	76	G	C4-C5-C6	6.01	122.40	118.80
36	1	934	G	C4-N9-C1'	6.01	134.31	126.50
36	1	1379	G	C8-N9-C1'	-6.01	119.19	127.00
36	1	3079	U	C2-N1-C1'	-6.01	110.49	117.70
36	1	3112	G	N7-C8-N9	-6.01	110.10	113.10
36	1	3186	A	C5-C6-N6	6.01	128.50	123.70
48	M1	30	LEU	CA-CB-CG	6.01	129.11	115.30
36	5	834	U	C5-C4-O4	6.01	129.50	125.90
36	5	2147	A	C5-C6-N6	-6.01	118.89	123.70
36	5	2573	G	C6-C5-N7	-6.01	126.80	130.40
36	5	3147	G	C6-C5-N7	-6.01	126.80	130.40
36	5	3328	G	C5-C6-N1	6.01	114.50	111.50
36	1	41	G	N3-C4-N9	-6.00	122.40	126.00
36	1	318	A	C5-N7-C8	-6.00	100.90	103.90
36	1	1500	G	C5-C6-N1	6.00	114.50	111.50
36	1	2431	C	N3-C2-O2	-6.00	117.70	121.90
36	5	1000	C	O5'-P-OP2	-6.00	100.30	105.70
36	5	3314	A	N1-C6-N6	6.00	122.20	118.60
36	1	1419	A	N1-C2-N3	6.00	132.30	129.30
36	1	2693	C	C6-N1-C2	6.00	122.70	120.30
36	1	2824	G	C4-C5-N7	6.00	113.20	110.80
36	1	3126	C	C4-C5-C6	6.00	120.40	117.40
1	6	356	G	C5-C6-O6	-6.00	125.00	128.60
1	6	867	G	N1-C6-O6	-6.00	116.30	119.90
1	6	1740	A	C4-C5-C6	6.00	120.00	117.00
36	5	3059	G	N1-C6-O6	-6.00	116.30	119.90
1	2	158	U	P-O3'-C3'	6.00	126.90	119.70
36	1	2202	C	N3-C2-O2	-6.00	117.70	121.90
36	1	2677	G	C5-N7-C8	-6.00	101.30	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2809	C	N1-C2-O2	-6.00	115.30	118.90
36	1	2863	G	C8-N9-C4	6.00	108.80	106.40
36	1	3320	A	C8-N9-C4	-6.00	103.40	105.80
37	3	25	G	N1-C2-N2	-6.00	110.80	116.20
1	6	884	A	C4-C5-N7	6.00	113.70	110.70
1	6	1478	G	N7-C8-N9	6.00	116.10	113.10
20	c8	131	LEU	CA-CB-CG	-6.00	101.50	115.30
36	5	102	C	C5-C6-N1	-6.00	118.00	121.00
36	5	1452	A	OP1-P-OP2	6.00	128.60	119.60
36	5	2243	A	C5-N7-C8	6.00	106.90	103.90
36	5	3173	G	N1-C2-N2	-6.00	110.80	116.20
37	7	29	C	C6-N1-C2	6.00	122.70	120.30
38	8	44	A	C6-C5-N7	-6.00	128.10	132.30
1	2	160	C	O5'-P-OP1	-6.00	100.30	105.70
1	2	1651	A	C5-C6-N1	-6.00	114.70	117.70
36	5	282	G	C2-N3-C4	-6.00	108.90	111.90
36	5	3045	G	N1-C2-N3	6.00	127.50	123.90
36	5	3307	A	C6-C5-N7	-6.00	128.10	132.30
38	8	116	G	C6-C5-N7	-6.00	126.80	130.40
1	2	1668	G	C8-N9-C4	6.00	108.80	106.40
36	1	59	G	C6-C5-N7	-6.00	126.80	130.40
36	1	425	G	C5-C6-O6	6.00	132.20	128.60
36	1	869	G	N1-C2-N3	6.00	127.50	123.90
36	5	596	C	C6-N1-C1'	6.00	128.00	120.80
36	5	1180	A	O4'-C1'-N9	-6.00	103.40	108.20
36	5	2635	A	N7-C8-N9	6.00	116.80	113.80
36	5	2715	A	N3-C4-C5	-6.00	122.60	126.80
36	5	3315	G	C6-N1-C2	-6.00	121.50	125.10
36	1	92	G	C5-N7-C8	-6.00	101.30	104.30
36	1	1820	U	P-O3'-C3'	6.00	126.89	119.70
36	1	2334	U	OP1-P-OP2	6.00	128.59	119.60
36	1	2754	G	N1-C2-N2	-6.00	110.80	116.20
36	1	2842	U	O5'-P-OP2	6.00	117.90	110.70
36	1	3305	A	C6-N1-C2	-6.00	115.00	118.60
1	6	1288	G	N7-C8-N9	-6.00	110.10	113.10
36	5	350	C	C5-C6-N1	6.00	124.00	121.00
36	5	518	G	C5-C6-O6	-6.00	125.00	128.60
36	5	588	G	C4-N9-C1'	6.00	134.29	126.50
36	5	595	G	N7-C8-N9	6.00	116.10	113.10
36	5	1783	U	N1-C2-N3	6.00	118.50	114.90
36	5	1793	C	N3-C2-O2	6.00	126.10	121.90
36	5	2164	A	C5-C6-N6	6.00	128.50	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2391	G	OP1-P-OP2	6.00	128.59	119.60
36	5	3088	G	C2-N3-C4	-6.00	108.90	111.90
36	5	3374	U	C2-N3-C4	-6.00	123.40	127.00
36	1	41	G	C4-N9-C1'	-6.00	118.71	126.50
36	1	1468	A	C2-N3-C4	-6.00	107.60	110.60
36	1	1838	G	C8-N9-C1'	-6.00	119.21	127.00
1	6	389	G	N1-C6-O6	6.00	123.50	119.90
9	s7	64	VAL	C-N-CD	6.00	140.99	128.40
36	5	1847	A	C4-N9-C1'	-6.00	115.51	126.30
36	5	2603	G	C6-C5-N7	-6.00	126.80	130.40
36	5	3185	U	N3-C4-O4	6.00	123.60	119.40
1	2	178	U	N3-C4-O4	5.99	123.60	119.40
1	2	1051	G	P-O3'-C3'	5.99	126.89	119.70
36	1	211	A	C5-C6-N6	5.99	128.50	123.70
36	1	624	G	N1-C2-N2	-5.99	110.81	116.20
36	1	1387	G	N3-C4-C5	-5.99	125.60	128.60
1	6	921	U	O5'-P-OP1	5.99	117.89	110.70
1	6	1504	G	N1-C2-N3	5.99	127.50	123.90
1	6	1778	G	N7-C8-N9	5.99	116.10	113.10
36	5	67	A	N1-C6-N6	-5.99	115.00	118.60
36	5	214	G	C6-C5-N7	5.99	134.00	130.40
36	5	586	C	C4-C5-C6	5.99	120.40	117.40
36	5	632	G	C4-N9-C1'	5.99	134.29	126.50
36	5	710	A	N7-C8-N9	5.99	116.80	113.80
36	5	980	A	C5-C6-N1	5.99	120.70	117.70
36	5	2145	A	N1-C2-N3	5.99	132.30	129.30
36	5	2305	G	N3-C4-N9	-5.99	122.40	126.00
36	5	2872	A	O4'-C1'-N9	-5.99	103.41	108.20
36	5	3003	G	C6-C5-N7	5.99	134.00	130.40
1	2	620	A	N3-C4-N9	-5.99	122.61	127.40
36	1	28	C	C2-N1-C1'	-5.99	112.21	118.80
36	1	935	U	C2-N1-C1'	5.99	124.89	117.70
36	1	1323	G	N1-C2-N3	5.99	127.50	123.90
36	1	3270	U	C2-N1-C1'	-5.99	110.51	117.70
37	3	112	G	N1-C6-O6	-5.99	116.31	119.90
1	6	307	G	N1-C2-N3	5.99	127.50	123.90
36	5	1305	U	C5-C6-N1	-5.99	119.70	122.70
36	5	1366	A	C6-N1-C2	-5.99	115.00	118.60
36	5	2129	U	OP1-P-OP2	5.99	128.59	119.60
36	5	2195	C	C5-C6-N1	-5.99	118.00	121.00
1	2	425	A	C5-C6-N1	5.99	120.70	117.70
36	1	182	U	O4'-C1'-N1	5.99	112.99	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	213	A	N9-C4-C5	-5.99	103.40	105.80
36	1	278	U	C5-C4-O4	5.99	129.49	125.90
36	1	500	C	C4-C5-C6	5.99	120.39	117.40
36	1	1460	A	C6-N1-C2	-5.99	115.01	118.60
36	1	2229	A	C5-C6-N6	-5.99	118.91	123.70
36	1	2618	G	C4-C5-N7	-5.99	108.40	110.80
36	1	2801	A	C4-C5-N7	5.99	113.69	110.70
1	6	179	A	N7-C8-N9	5.99	116.80	113.80
1	6	1047	G	N3-C4-N9	5.99	129.59	126.00
36	5	983	A	C2-N3-C4	-5.99	107.61	110.60
36	5	1137	C	N3-C4-C5	-5.99	119.50	121.90
36	5	1323	G	C6-N1-C2	-5.99	121.50	125.10
36	5	2247	G	O5'-P-OP2	5.99	117.89	110.70
36	5	2377	G	C8-N9-C1'	5.99	134.79	127.00
36	5	2937	G	C4-C5-N7	5.99	113.20	110.80
36	5	3078	U	N1-C1'-C2'	-5.99	105.41	112.00
36	5	3091	A	O5'-P-OP2	-5.99	100.31	105.70
36	1	102	C	C2-N1-C1'	5.99	125.39	118.80
36	1	667	C	N3-C4-C5	-5.99	119.50	121.90
36	1	1115	G	N3-C4-C5	-5.99	125.61	128.60
36	1	1529	A	C5-C6-N6	5.99	128.49	123.70
36	1	1877	U	N3-C4-C5	5.99	118.19	114.60
36	1	2185	G	N3-C4-N9	5.99	129.59	126.00
36	1	2727	A	N1-C2-N3	5.99	132.29	129.30
36	1	2866	U	C6-N1-C2	-5.99	117.41	121.00
36	1	3328	G	C6-C5-N7	-5.99	126.81	130.40
1	6	952	A	O5'-P-OP2	-5.99	100.31	105.70
36	5	292	U	N3-C2-O2	5.99	126.39	122.20
36	5	575	G	C6-N1-C2	-5.99	121.51	125.10
36	5	666	A	C4-C5-C6	5.99	119.99	117.00
36	5	697	A	N7-C8-N9	-5.99	110.81	113.80
41	14	141	ARG	NE-CZ-NH2	-5.99	117.31	120.30
1	2	534	A	C8-N9-C4	5.99	108.19	105.80
36	1	272	G	C8-N9-C1'	5.99	134.78	127.00
36	1	654	C	C2-N3-C4	-5.99	116.91	119.90
36	1	719	U	P-O3'-C3'	-5.99	112.52	119.70
1	6	323	A	C5-N7-C8	-5.99	100.91	103.90
1	6	417	A	C8-N9-C4	-5.99	103.41	105.80
36	5	1002	A	C2-N3-C4	-5.99	107.61	110.60
36	5	2678	A	N3-C4-N9	-5.99	122.61	127.40
1	2	555	A	N1-C6-N6	-5.99	115.01	118.60
36	1	375	A	O5'-P-OP2	-5.99	100.31	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	867	G	C4-N9-C1'	5.99	134.28	126.50
36	1	1338	C	N3-C4-C5	5.99	124.29	121.90
36	1	1431	G	N3-C4-C5	-5.99	125.61	128.60
36	1	1725	C	N1-C2-N3	5.99	123.39	119.20
36	1	2287	C	C2-N3-C4	-5.99	116.91	119.90
36	1	2652	U	N3-C2-O2	5.99	126.39	122.20
36	1	3163	A	N1-C6-N6	5.99	122.19	118.60
36	1	3393	U	N3-C2-O2	5.99	126.39	122.20
1	6	405	C	OP2-P-O3'	5.99	118.37	105.20
36	5	863	C	OP1-P-OP2	5.99	128.58	119.60
36	5	910	G	C5-N7-C8	-5.99	101.31	104.30
36	5	1942	U	N3-C2-O2	-5.99	118.01	122.20
36	1	712	G	C4-C5-N7	-5.98	108.41	110.80
36	1	1453	A	N3-C4-C5	-5.98	122.61	126.80
36	1	1553	U	N1-C2-N3	5.98	118.49	114.90
36	1	2728	G	C8-N9-C4	-5.98	104.01	106.40
37	3	58	C	N1-C2-O2	5.98	122.49	118.90
36	5	1465	A	C8-N9-C4	-5.98	103.41	105.80
36	5	2606	G	N3-C4-N9	-5.98	122.41	126.00
1	2	340	U	O5'-P-OP1	-5.98	100.31	105.70
36	1	145	G	C5-C6-O6	-5.98	125.01	128.60
36	1	398	A	C4-C5-C6	-5.98	114.01	117.00
36	1	639	G	C4-C5-N7	5.98	113.19	110.80
36	1	790	U	N1-C2-O2	-5.98	118.61	122.80
36	1	2238	G	C4-N9-C1'	-5.98	118.72	126.50
36	1	2856	G	OP2-P-O3'	5.98	118.36	105.20
36	1	2946	A	C4-C5-C6	5.98	119.99	117.00
1	6	1185	U	N1-C2-O2	5.98	126.99	122.80
1	6	1478	G	N1-C2-N2	-5.98	110.82	116.20
36	5	108	A	N1-C6-N6	-5.98	115.01	118.60
36	5	802	C	C5-C6-N1	-5.98	118.01	121.00
36	5	986	U	OP2-P-O3'	5.98	118.36	105.20
36	5	1358	C	C6-N1-C2	5.98	122.69	120.30
36	5	2872	A	C2-N3-C4	5.98	113.59	110.60
36	5	2988	C	C4-C5-C6	5.98	120.39	117.40
36	5	3176	G	N1-C2-N3	5.98	127.49	123.90
38	8	53	A	N1-C2-N3	5.98	132.29	129.30
1	2	598	U	N3-C4-O4	5.98	123.59	119.40
36	1	50	U	C2-N1-C1'	5.98	124.88	117.70
36	1	354	U	N1-C2-O2	5.98	126.99	122.80
36	1	364	G	O5'-P-OP1	-5.98	100.32	105.70
36	1	1050	U	O5'-P-OP1	-5.98	100.32	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1149	G	OP1-P-O3'	5.98	118.36	105.20
36	1	1208	U	C4-C5-C6	-5.98	116.11	119.70
36	1	1380	G	C8-N9-C4	5.98	108.79	106.40
36	1	1791	C	N1-C2-O2	-5.98	115.31	118.90
36	1	2526	C	C6-N1-C2	-5.98	117.91	120.30
36	1	2674	A	C8-N9-C4	-5.98	103.41	105.80
1	6	795	U	N3-C2-O2	-5.98	118.01	122.20
1	6	923	A	C8-N9-C4	-5.98	103.41	105.80
1	6	1558	U	O5'-P-OP1	-5.98	100.32	105.70
1	6	1615	C	C2-N1-C1'	-5.98	112.22	118.80
36	5	638	C	N1-C2-N3	5.98	123.39	119.20
36	5	921	A	OP2-P-O3'	5.98	118.36	105.20
36	5	2842	U	C5-C4-O4	-5.98	122.31	125.90
36	5	3132	C	C5-C6-N1	-5.98	118.01	121.00
36	5	3330	A	C4-C5-C6	5.98	119.99	117.00
37	7	80	G	N1-C2-N3	5.98	127.49	123.90
52	m6	58	LEU	CA-CB-CG	5.98	129.06	115.30
1	2	467	G	N1-C6-O6	-5.98	116.31	119.90
36	1	983	A	C4-C5-C6	5.98	119.99	117.00
36	1	2295	A	N9-C4-C5	5.98	108.19	105.80
36	1	3047	U	N3-C2-O2	-5.98	118.02	122.20
36	5	64	G	OP2-P-O3'	5.98	118.36	105.20
36	5	1502	C	C5-C4-N4	-5.98	116.02	120.20
36	5	2234	G	N7-C8-N9	-5.98	110.11	113.10
36	5	2542	U	O4'-C1'-N1	5.98	112.98	108.20
1	2	590	C	C5-C6-N1	5.98	123.99	121.00
1	2	870	C	N3-C2-O2	5.98	126.08	121.90
1	2	1086	A	C8-N9-C4	-5.98	103.41	105.80
36	1	699	A	C4-N9-C1'	-5.98	115.54	126.30
36	1	783	A	N9-C4-C5	-5.98	103.41	105.80
36	1	1111	U	N3-C4-C5	5.98	118.19	114.60
36	1	1749	A	C8-N9-C4	-5.98	103.41	105.80
36	1	2697	A	C5-C6-N1	5.98	120.69	117.70
36	1	2893	C	N3-C2-O2	-5.98	117.72	121.90
1	6	331	A	C4-C5-C6	5.98	119.99	117.00
1	6	569	C	N3-C4-C5	5.98	124.29	121.90
1	6	879	G	C4-C5-N7	5.98	113.19	110.80
36	5	182	U	O4'-C1'-N1	5.98	112.98	108.20
36	5	223	U	C5-C4-O4	5.98	129.49	125.90
36	5	531	G	N3-C4-C5	-5.98	125.61	128.60
36	5	900	G	O5'-P-OP2	-5.98	100.32	105.70
36	5	1277	C	C2-N1-C1'	5.98	125.38	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1770	G	N9-C4-C5	-5.98	103.01	105.40
36	5	2402	A	C6-N1-C2	-5.98	115.01	118.60
36	5	2805	G	C8-N9-C4	-5.98	104.01	106.40
36	5	3138	U	N3-C2-O2	5.98	126.38	122.20
36	5	3282	U	N1-C2-O2	5.98	126.98	122.80
36	1	1136	A	C8-N9-C4	5.98	108.19	105.80
36	1	2291	A	C4-C5-C6	5.98	119.99	117.00
36	1	3067	C	C6-N1-C2	5.98	122.69	120.30
1	6	1031	U	N3-C4-O4	-5.98	115.22	119.40
1	6	1381	U	O5'-P-OP1	-5.98	100.32	105.70
36	5	1122	U	N3-C2-O2	-5.98	118.02	122.20
37	7	56	A	C8-N9-C4	-5.98	103.41	105.80
76	q0	79	GLU	C-N-CD	-5.98	107.45	120.60
1	2	1128	C	N1-C2-O2	-5.97	115.32	118.90
1	2	1428	G	O5'-P-OP1	-5.97	100.32	105.70
36	1	827	A	N1-C6-N6	-5.97	115.02	118.60
64	N8	133	LEU	CA-CB-CG	5.97	129.04	115.30
70	O4	10	ARG	NE-CZ-NH1	-5.97	117.31	120.30
36	5	789	A	N1-C6-N6	-5.97	115.02	118.60
36	5	793	C	N1-C2-O2	-5.97	115.31	118.90
36	5	909	G	C4-C5-C6	5.97	122.39	118.80
36	5	1198	C	N1-C2-N3	5.97	123.38	119.20
36	5	2977	G	C8-N9-C4	-5.97	104.01	106.40
36	5	2977	G	N1-C6-O6	5.97	123.48	119.90
37	7	57	G	C4-C5-N7	5.97	113.19	110.80
68	o2	41	VAL	CB-CA-C	-5.97	100.05	111.40
1	2	820	U	C6-N1-C2	-5.97	117.42	121.00
36	1	2893	C	C5-C6-N1	-5.97	118.01	121.00
36	1	2901	G	N1-C6-O6	-5.97	116.32	119.90
1	6	1631	A	N1-C6-N6	5.97	122.18	118.60
1	6	1656	U	C5-C4-O4	-5.97	122.32	125.90
1	6	1794	A	C8-N9-C4	5.97	108.19	105.80
36	5	651	G	N1-C2-N3	5.97	127.48	123.90
36	5	2790	A	C8-N9-C4	5.97	108.19	105.80
36	5	182	U	C6-N1-C1'	5.97	129.56	121.20
36	5	2844	C	N3-C4-C5	-5.97	119.51	121.90
36	5	2932	U	C6-N1-C1'	5.97	129.56	121.20
1	2	1086	A	C2-N3-C4	5.97	113.58	110.60
36	1	19	U	C6-N1-C2	-5.97	117.42	121.00
36	1	497	C	N1-C2-O2	-5.97	115.32	118.90
36	1	813	G	N1-C2-N3	5.97	127.48	123.90
36	1	1121	U	O5'-P-OP2	-5.97	100.33	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1387	G	N1-C2-N2	-5.97	110.83	116.20
36	1	2705	A	C6-C5-N7	5.97	136.48	132.30
37	3	74	C	N1-C2-O2	5.97	122.48	118.90
1	6	432	G	C2-N3-C4	5.97	114.89	111.90
1	6	1331	A	C8-N9-C4	-5.97	103.41	105.80
1	6	1440	C	C4-C5-C6	-5.97	114.42	117.40
36	5	388	G	C8-N9-C4	-5.97	104.01	106.40
36	5	918	C	N3-C4-C5	-5.97	119.51	121.90
36	5	1044	U	C6-N1-C1'	5.97	129.56	121.20
36	5	1077	U	C6-N1-C2	5.97	124.58	121.00
36	5	2948	C	C2-N1-C1'	5.97	125.37	118.80
36	5	3294	A	C8-N9-C4	-5.97	103.41	105.80
56	n0	82	ASP	CB-CG-OD1	-5.97	112.93	118.30
1	2	1445	G	O4'-C1'-N9	5.97	112.97	108.20
36	1	344	A	N3-C4-C5	5.97	130.98	126.80
37	3	99	G	C4-C5-N7	-5.97	108.41	110.80
38	4	17	A	C4-C5-C6	5.97	119.98	117.00
36	5	515	C	O4'-C1'-N1	-5.97	103.43	108.20
36	5	698	U	N1-C2-O2	-5.97	118.62	122.80
36	5	1753	G	N7-C8-N9	-5.97	110.12	113.10
36	5	2362	C	O5'-P-OP1	-5.97	100.33	105.70
36	5	2601	A	C5-C6-N6	-5.97	118.92	123.70
37	7	3	U	C5-C6-N1	-5.97	119.72	122.70
1	2	1486	G	C5-C6-O6	-5.97	125.02	128.60
1	2	1546	G	N3-C4-C5	-5.97	125.62	128.60
1	2	1638	G	C8-N9-C4	-5.97	104.01	106.40
36	1	1726	C	C6-N1-C2	-5.97	117.91	120.30
36	1	2110	G	N3-C4-C5	-5.97	125.62	128.60
36	1	2408	U	C4-C5-C6	5.97	123.28	119.70
36	1	2792	A	O5'-P-OP1	5.97	117.86	110.70
36	1	2991	A	O5'-P-OP1	-5.97	100.33	105.70
38	4	125	U	N1-C2-O2	5.97	126.98	122.80
41	L4	190	GLY	N-CA-C	5.97	128.02	113.10
1	6	356	G	N3-C4-C5	-5.97	125.62	128.60
1	6	746	A	C4-C5-C6	5.97	119.98	117.00
1	6	984	G	C8-N9-C4	5.97	108.79	106.40
36	5	393	U	C5-C6-N1	5.97	125.68	122.70
36	5	668	G	C5-N7-C8	5.97	107.28	104.30
36	5	936	A	C2-N3-C4	-5.97	107.62	110.60
36	5	1481	A	N1-C2-N3	5.97	132.28	129.30
36	5	2416	U	N3-C2-O2	-5.97	118.02	122.20
36	5	3071	U	O5'-P-OP2	-5.97	100.33	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3090	U	O5'-P-OP2	-5.97	100.33	105.70
1	2	43	A	C8-N9-C4	-5.96	103.42	105.80
1	2	1031	U	OP2-P-O3'	5.96	118.32	105.20
1	2	1284	C	C2-N1-C1'	-5.96	112.24	118.80
36	1	50	U	N3-C4-O4	5.96	123.58	119.40
36	1	2823	G	N3-C4-N9	-5.96	122.42	126.00
36	1	3010	U	C4-C5-C6	-5.96	116.12	119.70
1	6	1305	U	N1-C2-O2	-5.96	118.62	122.80
1	6	1521	G	C5-C6-N1	5.96	114.48	111.50
36	5	360	G	C4-C5-N7	-5.96	108.41	110.80
36	5	1339	C	C4-C5-C6	-5.96	114.42	117.40
36	5	2199	G	N3-C4-C5	-5.96	125.62	128.60
36	5	2303	A	C6-C5-N7	-5.96	128.12	132.30
36	5	2864	A	O4'-C1'-N9	-5.96	103.43	108.20
36	1	98	G	C6-N1-C2	-5.96	121.52	125.10
36	1	1054	A	OP1-P-OP2	-5.96	110.66	119.60
36	1	1374	G	C8-N9-C4	-5.96	104.02	106.40
36	1	3363	U	OP1-P-O3'	5.96	118.32	105.20
1	6	41	A	C5-C6-N6	5.96	128.47	123.70
36	5	2840	C	N1-C2-O2	5.96	122.48	118.90
1	2	1241	G	N7-C8-N9	5.96	116.08	113.10
36	1	2166	A	OP2-P-O3'	5.96	118.31	105.20
36	1	3010	U	C6-N1-C2	-5.96	117.42	121.00
36	1	3093	C	O4'-C1'-N1	5.96	112.97	108.20
1	6	922	G	N3-C4-N9	5.96	129.58	126.00
36	5	568	G	C5-C6-N1	5.96	114.48	111.50
36	5	688	G	C4-C5-C6	5.96	122.38	118.80
36	5	773	G	N7-C8-N9	5.96	116.08	113.10
36	5	961	C	N3-C2-O2	-5.96	117.73	121.90
36	5	1178	G	C6-N1-C2	-5.96	121.52	125.10
36	5	1289	G	C6-N1-C2	-5.96	121.52	125.10
36	5	1429	G	C6-C5-N7	-5.96	126.82	130.40
36	5	1853	U	N3-C2-O2	5.96	126.37	122.20
36	5	2973	G	N1-C6-O6	5.96	123.48	119.90
36	5	3118	C	N3-C4-C5	-5.96	119.52	121.90
36	5	3315	G	N3-C4-C5	-5.96	125.62	128.60
36	1	96	G	N7-C8-N9	-5.96	110.12	113.10
37	3	65	G	O4'-C1'-N9	-5.96	103.43	108.20
1	6	877	G	N9-C1'-C2'	-5.96	105.44	112.00
1	6	962	C	N3-C2-O2	5.96	126.07	121.90
1	6	1331	A	N1-C6-N6	-5.96	115.02	118.60
1	6	1337	A	N3-C4-C5	5.96	130.97	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1774	G	O5'-P-OP1	-5.96	100.34	105.70
35	sM	167	PRO	N-CA-CB	5.96	110.45	103.30
36	5	2671	A	N1-C6-N6	5.96	122.18	118.60
36	5	3275	U	N1-C2-O2	5.96	126.97	122.80
36	1	23	A	O5'-P-OP1	5.96	117.85	110.70
36	1	1354	G	N9-C4-C5	-5.96	103.02	105.40
1	6	1123	C	N1-C2-O2	-5.96	115.33	118.90
1	6	1592	A	N9-C4-C5	5.96	108.18	105.80
36	5	939	U	OP2-P-O3'	5.96	118.31	105.20
36	5	1207	G	N9-C4-C5	-5.96	103.02	105.40
36	5	1327	C	N3-C4-N4	-5.96	113.83	118.00
36	5	2618	G	C6-N1-C2	-5.96	121.53	125.10
36	5	2624	G	N7-C8-N9	5.96	116.08	113.10
36	1	1619	A	C4-C5-C6	-5.96	114.02	117.00
36	1	1697	A	C8-N9-C4	-5.96	103.42	105.80
36	1	2886	U	N1-C2-O2	-5.96	118.63	122.80
36	1	3189	G	C2-N3-C4	5.96	114.88	111.90
1	6	971	A	N1-C6-N6	5.96	122.17	118.60
1	6	1020	A	N1-C6-N6	-5.96	115.03	118.60
36	5	2317	A	O5'-P-OP1	5.96	117.85	110.70
1	2	376	C	N3-C4-C5	-5.96	119.52	121.90
1	2	763	G	N1-C6-O6	5.96	123.47	119.90
1	2	1672	G	C8-N9-C4	5.96	108.78	106.40
36	1	1323	G	N1-C2-N2	-5.96	110.84	116.20
36	1	1519	G	N7-C8-N9	5.96	116.08	113.10
36	5	1620	U	C6-N1-C2	-5.96	117.43	121.00
1	2	17	C	N3-C4-C5	5.95	124.28	121.90
1	2	575	C	C4-C5-C6	-5.95	114.42	117.40
1	2	1180	C	C6-N1-C2	-5.95	117.92	120.30
36	1	231	G	N9-C4-C5	-5.95	103.02	105.40
36	1	293	C	N1-C2-O2	-5.95	115.33	118.90
36	1	651	G	C4-C5-N7'	5.95	113.18	110.80
36	1	943	U	OP1-P-O3'	5.95	118.30	105.20
36	1	2315	G	N3-C4-C5	-5.95	125.62	128.60
36	1	2410	U	C6-N1-C2	-5.95	117.43	121.00
36	1	2694	A	OP1-P-OP2	5.95	128.53	119.60
36	1	3031	G	N1-C2-N2	5.95	121.56	116.20
1	6	322	G	C6-C5-N7	-5.95	126.83	130.40
1	6	419	G	C4-C5-C6	-5.95	115.23	118.80
36	5	383	G	C8-N9-C4	5.95	108.78	106.40
36	5	1927	G	O5'-P-OP1	5.95	117.84	110.70
36	5	2160	G	N1-C6-O6	5.95	123.47	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	133	G	C4-N9-C1'	-5.95	118.76	126.50
36	1	1050	U	N1-C2-N3	5.95	118.47	114.90
36	1	1405	U	C5-C4-O4	5.95	129.47	125.90
36	1	1440	G	C4-C5-N7	5.95	113.18	110.80
36	1	2801	A	O5'-P-OP2	-5.95	100.34	105.70
36	5	1080	A	C5-N7-C8	5.95	106.88	103.90
37	7	99	G	N7-C8-N9	-5.95	110.12	113.10
38	8	13	A	O5'-P-OP2	-5.95	100.34	105.70
36	1	354	U	C2-N1-C1'	5.95	124.84	117.70
36	1	761	A	C4-C5-N7	5.95	113.68	110.70
36	1	2376	G	OP2-P-O3'	5.95	118.29	105.20
36	1	2910	A	C8-N9-C4	-5.95	103.42	105.80
36	1	2939	G	N3-C4-N9	5.95	129.57	126.00
1	6	584	C	C5-C6-N1	-5.95	118.03	121.00
1	6	1594	G	C8-N9-C4	5.95	108.78	106.40
28	d6	51	ARG	NE-CZ-NH2	5.95	123.28	120.30
36	5	235	A	N3-C4-N9	-5.95	122.64	127.40
36	5	256	G	C6-C5-N7	-5.95	126.83	130.40
36	5	1139	G	N9-C4-C5	5.95	107.78	105.40
36	5	2889	C	C4-C5-C6	-5.95	114.42	117.40
36	5	3143	C	N3-C4-C5	-5.95	119.52	121.90
38	8	85	G	N1-C6-O6	5.95	123.47	119.90
36	1	287	G	C4-N9-C1'	5.95	134.23	126.50
36	1	1390	A	C5-C6-N6	-5.95	118.94	123.70
36	1	1501	U	C5-C4-O4	-5.95	122.33	125.90
36	1	2418	G	N1-C6-O6	-5.95	116.33	119.90
36	1	3034	C	N1-C2-O2	5.95	122.47	118.90
36	1	3227	A	OP2-P-O3'	5.95	118.29	105.20
73	O7	11	ARG	NE-CZ-NH1	-5.95	117.33	120.30
36	5	345	G	O5'-P-OP1	-5.95	100.35	105.70
36	5	1505	C	OP2-P-O3'	5.95	118.29	105.20
36	5	3015	G	C8-N9-C4	5.95	108.78	106.40
36	5	3393	U	N1-C2-O2	-5.95	118.64	122.80
36	1	2997	G	C5-C6-O6	-5.95	125.03	128.60
1	6	1103	U	C5-C6-N1	-5.95	119.73	122.70
1	6	1747	G	N9-C4-C5	-5.95	103.02	105.40
36	5	591	G	N7-C8-N9	-5.95	110.13	113.10
36	5	961	C	N3-C4-C5	-5.95	119.52	121.90
1	2	1514	U	N1-C2-O2	5.95	126.96	122.80
1	2	1793	G	N3-C4-C5	-5.95	125.63	128.60
36	1	1171	G	C6-N1-C2	-5.95	121.53	125.10
36	1	1635	G	C4-C5-C6	5.95	122.37	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2290	C	C6-N1-C2	5.95	122.68	120.30
36	1	3322	A	N9-C4-C5	-5.95	103.42	105.80
1	6	624	G	C5-N7-C8	-5.95	101.33	104.30
1	6	778	G	C5-C6-N1	5.95	114.47	111.50
1	6	1542	G	N7-C8-N9	-5.95	110.13	113.10
1	6	1547	A	C4-C5-N7	5.95	113.67	110.70
36	5	112	U	O4'-C1'-N1	5.95	112.96	108.20
36	5	369	A	N7-C8-N9	5.95	116.77	113.80
36	5	844	G	N9-C1'-C2'	-5.95	105.46	112.00
36	5	1483	G	N1-C6-O6	5.95	123.47	119.90
36	5	1489	A	C2-N3-C4	-5.95	107.63	110.60
36	5	2370	G	N9-C4-C5	5.95	107.78	105.40
38	8	14	C	N1-C2-O2	-5.95	115.33	118.90
38	8	139	U	N1-C2-N3	5.95	118.47	114.90
36	1	2642	A	N7-C8-N9	-5.94	110.83	113.80
36	5	875	G	OP1-P-OP2	5.94	128.51	119.60
36	5	1737	U	N3-C4-O4	5.94	123.56	119.40
1	2	386	G	OP1-P-O3'	5.94	118.27	105.20
1	2	1198	G	O5'-P-OP1	-5.94	100.35	105.70
36	1	407	A	C8-N9-C1'	-5.94	117.00	127.70
64	N8	42	ARG	NE-CZ-NH2	-5.94	117.33	120.30
1	6	798	C	C6-N1-C2	5.94	122.68	120.30
1	6	1025	A	OP1-P-OP2	-5.94	110.69	119.60
1	6	1420	C	N3-C4-C5	-5.94	119.52	121.90
36	5	2335	G	C5-C6-O6	5.94	132.16	128.60
38	8	21	C	C6-N1-C2	-5.94	117.92	120.30
1	2	26	A	C5-N7-C8	-5.94	100.93	103.90
36	1	1887	A	N7-C8-N9	-5.94	110.83	113.80
36	1	1901	A	N9-C4-C5	5.94	108.18	105.80
36	1	2518	C	N1-C2-O2	-5.94	115.34	118.90
36	1	3006	A	C5-C6-N1	-5.94	114.73	117.70
36	1	3193	C	N3-C4-N4	5.94	122.16	118.00
1	6	1063	U	N3-C4-O4	5.94	123.56	119.40
1	6	1138	A	N3-C4-C5	5.94	130.96	126.80
1	6	1277	G	C6-C5-N7	-5.94	126.84	130.40
1	6	1550	A	C5-C6-N1	5.94	120.67	117.70
36	5	36	C	O5'-P-OP2	5.94	117.83	110.70
36	5	132	C	C4-C5-C6	5.94	120.37	117.40
36	5	299	G	O5'-P-OP1	-5.94	100.35	105.70
36	5	395	A	N7-C8-N9	5.94	116.77	113.80
36	5	514	G	C5-C6-N1	5.94	114.47	111.50
36	5	858	A	C8-N9-C4	-5.94	103.42	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1017	C	C6-N1-C1'	-5.94	113.67	120.80
36	5	1181	U	C5-C6-N1	-5.94	119.73	122.70
36	5	2279	A	C5-C6-N6	-5.94	118.95	123.70
36	5	3309	G	N1-C2-N3	5.94	127.47	123.90
36	1	1544	G	N9-C4-C5	-5.94	103.02	105.40
36	1	1838	G	C4-C5-C6	5.94	122.36	118.80
36	1	2305	G	C4-C5-N7	-5.94	108.42	110.80
36	1	2371	G	C4-C5-C6	5.94	122.36	118.80
1	6	948	G	N1-C6-O6	5.94	123.46	119.90
1	6	1668	G	N1-C2-N3	5.94	127.46	123.90
36	5	2397	A	C6-C5-N7	-5.94	128.14	132.30
36	5	2522	G	N9-C4-C5	-5.94	103.03	105.40
1	2	55	A	C5-C6-N6	-5.94	118.95	123.70
1	2	346	G	C5-C6-O6	5.94	132.16	128.60
36	1	913	A	C5-C6-N6	-5.94	118.95	123.70
36	1	1386	A	C6-C5-N7	5.94	136.46	132.30
36	5	1095	U	C5-C6-N1	5.94	125.67	122.70
36	5	1310	G	C8-N9-C4	-5.94	104.03	106.40
36	5	2121	G	N7-C8-N9	5.94	116.07	113.10
36	5	2167	A	N9-C4-C5	5.94	108.17	105.80
36	5	2897	A	N3-C4-C5	-5.94	122.64	126.80
36	1	1443	G	C5-N7-C8	-5.94	101.33	104.30
1	6	542	A	P-O3'-C3'	5.94	126.82	119.70
1	6	631	G	N1-C6-O6	5.94	123.46	119.90
1	6	1563	C	N3-C4-C5	5.94	124.27	121.90
36	5	713	U	N1-C2-N3	5.94	118.46	114.90
36	5	1079	A	O5'-P-OP1	-5.94	100.36	105.70
36	5	2627	C	O4'-C1'-N1	-5.94	103.45	108.20
36	5	3102	G	N1-C2-N3	5.94	127.46	123.90
1	2	104	A	N3-C4-C5	-5.93	122.65	126.80
1	2	552	G	C6-C5-N7	-5.93	126.84	130.40
36	1	212	G	C4-C5-C6	5.93	122.36	118.80
36	1	287	G	C4-C5-C6	5.93	122.36	118.80
36	1	533	A	OP2-P-O3'	5.93	118.25	105.20
36	1	1133	A	C5-C6-N6	-5.93	118.95	123.70
36	1	1213	G	N1-C6-O6	5.93	123.46	119.90
36	1	1909	A	N3-C4-N9	-5.93	122.65	127.40
36	1	3384	U	O5'-P-OP1	-5.93	100.36	105.70
1	6	796	A	C8-N9-C4	5.93	108.17	105.80
1	6	1172	G	C5-N7-C8	5.93	107.27	104.30
1	6	1520	U	N3-C2-O2	5.93	126.36	122.20
36	5	898	U	C2-N3-C4	-5.93	123.44	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1083	G	C5-C6-N1	5.93	114.47	111.50
36	5	2892	A	C2-N3-C4	-5.93	107.63	110.60
36	5	2945	G	C5-N7-C8	-5.93	101.33	104.30
36	5	3024	A	N3-C4-N9	-5.93	122.65	127.40
36	5	3039	C	C5-C4-N4	-5.93	116.05	120.20
1	2	404	G	C5-C6-N1	5.93	114.47	111.50
1	2	1119	G	N1-C2-N2	-5.93	110.86	116.20
36	1	94	G	C5-C6-O6	-5.93	125.04	128.60
36	1	96	G	N3-C2-N2	-5.93	115.75	119.90
36	1	1545	A	C6-C5-N7	-5.93	128.15	132.30
36	1	2518	C	N3-C4-C5	-5.93	119.53	121.90
36	1	3208	G	C8-N9-C4	5.93	108.77	106.40
1	6	325	G	OP2-P-O3'	5.93	118.25	105.20
1	6	370	A	C4-C5-N7	-5.93	107.73	110.70
1	6	466	U	C4-C5-C6	5.93	123.26	119.70
36	5	1476	G	N1-C6-O6	5.93	123.46	119.90
36	5	1905	G	C5-C6-O6	5.93	132.16	128.60
36	5	2397	A	C5-C6-N1	-5.93	114.73	117.70
36	5	2786	G	N1-C2-N3	5.93	127.46	123.90
36	5	3328	G	C5-C6-O6	-5.93	125.04	128.60
37	7	5	G	C8-N9-C4	5.93	108.77	106.40
38	8	5	U	N3-C4-O4	5.93	123.55	119.40
1	2	1436	A	N9-C4-C5	-5.93	103.43	105.80
36	1	518	G	N1-C2-N2	5.93	121.54	116.20
36	1	1449	A	N3-C4-C5	-5.93	122.65	126.80
36	1	1550	C	N3-C2-O2	-5.93	117.75	121.90
36	1	2387	A	C6-N1-C2	-5.93	115.04	118.60
1	6	363	G	N3-C4-N9	5.93	129.56	126.00
1	6	908	U	N1-C2-O2	5.93	126.95	122.80
1	6	1504	G	N1-C2-N2	-5.93	110.86	116.20
1	6	1660	A	C4-C5-C6	5.93	119.97	117.00
36	5	377	A	N9-C4-C5	5.93	108.17	105.80
36	5	787	G	N3-C4-C5	5.93	131.56	128.60
36	5	998	A	C5-C6-N6	5.93	128.44	123.70
36	1	218	G	O5'-P-OP1	-5.93	100.36	105.70
36	1	273	A	N7-C8-N9	-5.93	110.83	113.80
36	1	979	U	O5'-P-OP2	-5.93	100.36	105.70
36	1	1446	A	N7-C8-N9	5.93	116.77	113.80
36	1	2443	A	N1-C6-N6	5.93	122.16	118.60
36	1	3093	C	C6-N1-C1'	5.93	127.92	120.80
61	N5	34	LEU	CA-CB-CG	5.93	128.94	115.30
1	6	66	U	P-O3'-C3'	5.93	126.82	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	619	A	N9-C4-C5	5.93	108.17	105.80
1	6	1282	U	N1-C2-O2	-5.93	118.65	122.80
36	5	23	A	N1-C6-N6	5.93	122.16	118.60
36	5	823	C	C6-N1-C2	5.93	122.67	120.30
36	5	1542	G	C8-N9-C4	-5.93	104.03	106.40
36	5	2831	G	C5-C6-N1	-5.93	108.54	111.50
36	5	3068	U	N3-C2-O2	-5.93	118.05	122.20
37	7	106	U	N3-C4-C5	5.93	118.16	114.60
1	2	152	U	N3-C4-O4	-5.93	115.25	119.40
36	1	2209	U	N1-C2-N3	-5.93	111.34	114.90
36	1	2703	A	C5-N7-C8	5.93	106.86	103.90
38	4	56	G	N3-C4-N9	5.93	129.56	126.00
1	6	317	C	C6-N1-C2	5.93	122.67	120.30
1	6	610	G	N3-C4-C5	-5.93	125.64	128.60
36	5	1573	G	N1-C6-O6	-5.93	116.34	119.90
1	2	1561	U	C2-N1-C1'	5.93	124.81	117.70
36	1	887	G	C5-N7-C8	5.93	107.26	104.30
36	1	1405	U	N3-C2-O2	-5.93	118.05	122.20
36	1	2199	G	C5-C6-O6	-5.93	125.04	128.60
36	1	2337	C	N3-C4-N4	-5.93	113.85	118.00
36	1	2622	C	N1-C2-O2	5.93	122.46	118.90
36	1	2707	C	C2-N1-C1'	5.93	125.32	118.80
38	4	150	G	N3-C4-N9	5.93	129.56	126.00
1	6	25	C	C6-N1-C2	5.93	122.67	120.30
1	6	1100	G	C2-N3-C4	-5.93	108.94	111.90
1	6	1372	U	C6-N1-C2	-5.93	117.44	121.00
1	6	1398	U	C5-C4-O4	5.93	129.46	125.90
25	d3	73	ARG	NE-CZ-NH1	-5.93	117.34	120.30
36	5	1140	G	N1-C6-O6	-5.93	116.34	119.90
36	5	1672	U	C2-N1-C1'	-5.93	110.59	117.70
36	5	2122	G	O5'-P-OP2	-5.93	100.37	105.70
36	5	3204	C	C2-N3-C4	-5.93	116.94	119.90
36	1	227	G	C6-C5-N7	-5.92	126.85	130.40
36	1	870	G	OP2-P-O3'	5.92	118.23	105.20
36	1	934	G	C5-N7-C8	-5.92	101.34	104.30
1	6	17	C	C6-N1-C2	-5.92	117.93	120.30
1	6	89	G	N3-C2-N2	-5.92	115.75	119.90
1	6	326	G	C8-N9-C1'	-5.92	119.30	127.00
36	5	787	G	N1-C6-O6	5.92	123.45	119.90
36	5	941	G	N1-C6-O6	-5.92	116.34	119.90
36	5	1313	G	C6-C5-N7	-5.92	126.84	130.40
36	5	2421	U	C2-N3-C4	-5.92	123.44	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2766	U	O5'-P-OP2	-5.92	100.37	105.70
36	5	2768	U	C5-C6-N1	-5.92	119.74	122.70
36	5	2839	G	C5-C6-O6	5.92	132.16	128.60
37	7	95	A	N1-C6-N6	5.92	122.16	118.60
64	n8	73	LEU	CA-CB-CG	5.92	128.93	115.30
1	2	730	G	C8-N9-C4	-5.92	104.03	106.40
36	1	197	G	OP2-P-O3'	5.92	118.23	105.20
1	6	397	A	C4-C5-N7	5.92	113.66	110.70
1	6	1284	C	N3-C4-N4	5.92	122.15	118.00
36	5	944	C	C5-C4-N4	5.92	124.35	120.20
36	5	3210	A	N1-C2-N3	5.92	132.26	129.30
1	2	21	U	C5-C4-O4	-5.92	122.35	125.90
36	1	943	U	OP1-P-OP2	5.92	128.48	119.60
36	1	2198	A	P-O5'-C5'	-5.92	111.42	120.90
36	1	2603	G	N1-C6-O6	5.92	123.45	119.90
36	1	2718	U	C5-C4-O4	-5.92	122.35	125.90
37	3	92	A	N3-C4-C5	5.92	130.94	126.80
1	6	209	U	C5-C4-O4	-5.92	122.35	125.90
1	6	964	U	C6-N1-C2	5.92	124.55	121.00
1	6	1121	C	C6-N1-C2	-5.92	117.93	120.30
1	6	1781	A	C6-C5-N7	-5.92	128.16	132.30
36	5	568	G	N3-C4-C5	-5.92	125.64	128.60
36	5	608	A	N9-C4-C5	-5.92	103.43	105.80
36	5	695	C	C6-N1-C1'	-5.92	113.69	120.80
36	5	940	G	OP2-P-O3'	5.92	118.23	105.20
36	5	1321	G	N1-C2-N2	5.92	121.53	116.20
36	5	1724	U	O4'-C1'-N1	5.92	112.94	108.20
36	5	2327	U	C2-N3-C4	-5.92	123.45	127.00
36	5	2872	A	C5-C6-N1	5.92	120.66	117.70
36	5	3029	A	C5-N7-C8	-5.92	100.94	103.90
36	1	591	G	C4-C5-C6	5.92	122.35	118.80
36	1	2650	U	C5-C4-O4	5.92	129.45	125.90
36	1	2663	G	C5-C6-N1	5.92	114.46	111.50
38	4	97	A	C6-N1-C2	-5.92	115.05	118.60
51	M5	73	ARG	NE-CZ-NH1	-5.92	117.34	120.30
1	6	109	G	O5'-P-OP1	5.92	117.80	110.70
36	5	155	G	C8-N9-C4	5.92	108.77	106.40
36	5	654	C	N3-C4-C5	-5.92	119.53	121.90
36	5	854	G	N3-C4-N9	-5.92	122.45	126.00
36	1	402	A	C6-C5-N7	-5.92	128.16	132.30
36	1	1937	U	N3-C4-O4	-5.92	115.26	119.40
37	3	102	A	C5-C6-N6	-5.92	118.97	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	946	U	C6-N1-C2	-5.92	117.45	121.00
1	6	1214	U	C5-C4-O4	-5.92	122.35	125.90
1	6	1750	A	C4-C5-C6	5.92	119.96	117.00
36	5	567	G	C2-N3-C4	-5.92	108.94	111.90
36	5	1014	U	N1-C2-O2	5.92	126.94	122.80
36	5	2108	C	N3-C4-C5	-5.92	119.53	121.90
36	5	2402	A	C2-N3-C4	-5.92	107.64	110.60
36	5	2797	C	N3-C4-C5	-5.92	119.53	121.90
36	5	3124	G	N1-C2-N3	5.92	127.45	123.90
36	5	3393	U	C6-N1-C1'	5.92	129.49	121.20
38	8	97	A	N1-C2-N3	5.92	132.26	129.30
45	l8	48	ARG	NE-CZ-NH1	-5.92	117.34	120.30
62	n6	126	LEU	CA-CB-CG	5.92	128.91	115.30
1	2	19	A	C4-C5-N7	5.92	113.66	110.70
1	2	542	A	N1-C2-N3	5.92	132.26	129.30
1	2	637	C	C2-N3-C4	5.92	122.86	119.90
36	1	1093	A	N1-C6-N6	-5.92	115.05	118.60
36	1	3336	A	C8-N9-C4	-5.92	103.43	105.80
37	3	56	A	N3-C4-C5	5.92	130.94	126.80
1	6	43	A	N1-C6-N6	5.92	122.15	118.60
1	6	298	C	N1-C2-O2	5.92	122.45	118.90
36	5	585	A	O5'-P-OP2	-5.92	100.37	105.70
36	5	1832	C	N1-C2-O2	-5.92	115.35	118.90
36	5	2225	U	C6-N1-C2	-5.92	117.45	121.00
36	5	2517	U	OP1-P-O3'	5.92	118.21	105.20
36	5	2624	G	N3-C4-N9	5.92	129.55	126.00
36	5	3061	G	C4-C5-N7	5.92	113.17	110.80
36	5	3323	A	N7-C8-N9	5.92	116.76	113.80
39	l2	237	LEU	CA-CB-CG	-5.92	101.69	115.30
36	1	281	G	O4'-C1'-N9	5.92	112.93	108.20
36	1	2797	C	C4-C5-C6	5.92	120.36	117.40
36	5	1487	G	C8-N9-C4	-5.92	104.03	106.40
36	5	2140	U	N3-C2-O2	-5.92	118.06	122.20
1	2	1556	A	N1-C6-N6	-5.91	115.05	118.60
36	1	967	A	C4-C5-C6	5.91	119.96	117.00
36	1	1386	A	C4-C5-N7	-5.91	107.74	110.70
36	1	1560	G	O5'-P-OP2	-5.91	100.38	105.70
36	1	1728	G	C4-C5-C6	5.91	122.35	118.80
36	1	2762	A	N3-C4-C5	-5.91	122.66	126.80
36	1	2937	G	N1-C2-N2	5.91	121.52	116.20
36	1	3147	G	N7-C8-N9	-5.91	110.14	113.10
1	6	1117	U	O5'-P-OP2	-5.91	100.38	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1548	G	C8-N9-C4	5.91	108.77	106.40
1	6	1572	G	C5-C6-O6	-5.91	125.05	128.60
36	5	781	G	C8-N9-C4	-5.91	104.03	106.40
36	5	1073	U	N1-C2-O2	5.91	126.94	122.80
36	5	1195	A	N7-C8-N9	5.91	116.76	113.80
36	5	1344	G	N3-C4-C5	5.91	131.56	128.60
36	5	1383	G	C4-C5-C6	5.91	122.35	118.80
36	5	1465	A	C5-C6-N6	-5.91	118.97	123.70
36	5	2146	C	O5'-P-OP2	-5.91	100.38	105.70
36	5	2903	A	O5'-P-OP1	5.91	117.80	110.70
37	7	25	G	C6-N1-C2	-5.91	121.55	125.10
38	8	102	U	N3-C2-O2	-5.91	118.06	122.20
36	1	1323	G	C4-C5-C6	5.91	122.35	118.80
36	1	3020	U	C5-C6-N1	5.91	125.66	122.70
1	6	799	A	C2-N3-C4	-5.91	107.64	110.60
36	5	365	A	C6-C5-N7	-5.91	128.16	132.30
36	5	1302	A	C8-N9-C4	-5.91	103.44	105.80
36	5	2851	A	C5-N7-C8	5.91	106.86	103.90
36	5	3331	U	N3-C4-O4	5.91	123.54	119.40
1	2	1641	C	C5-C6-N1	-5.91	118.05	121.00
36	1	372	A	C6-N1-C2	-5.91	115.05	118.60
36	1	714	G	C4-N9-C1'	5.91	134.19	126.50
36	1	874	U	OP1-P-OP2	-5.91	110.73	119.60
36	1	1463	U	N1-C2-N3	5.91	118.45	114.90
36	1	2174	G	C8-N9-C4	-5.91	104.03	106.40
36	1	2303	A	C6-N1-C2	-5.91	115.05	118.60
36	1	2355	G	C5-C6-N1	-5.91	108.54	111.50
36	1	2722	U	C2-N1-C1'	5.91	124.79	117.70
36	1	3219	G	C8-N9-C1'	-5.91	119.31	127.00
37	3	17	A	N9-C4-C5	5.91	108.16	105.80
1	6	50	C	OP1-P-OP2	-5.91	110.73	119.60
1	6	1484	G	C2-N3-C4	5.91	114.86	111.90
36	5	51	A	C5-N7-C8	-5.91	100.94	103.90
36	5	660	A	C5-N7-C8	5.91	106.86	103.90
36	5	938	C	N3-C2-O2	5.91	126.04	121.90
36	5	2409	G	C6-C5-N7	-5.91	126.85	130.40
36	5	2548	C	C6-N1-C2	-5.91	117.94	120.30
36	5	2674	A	N7-C8-N9	-5.91	110.84	113.80
36	5	2920	U	C4-C5-C6	-5.91	116.15	119.70
36	1	189	G	C6-N1-C2	-5.91	121.55	125.10
36	1	225	C	N3-C2-O2	-5.91	117.77	121.90
36	1	405	U	N3-C4-C5	-5.91	111.06	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	633	C	N3-C2-O2	-5.91	117.76	121.90
36	1	1099	A	C4-C5-C6	5.91	119.95	117.00
36	1	1111	U	N3-C4-O4	-5.91	115.27	119.40
36	1	1378	U	C5-C4-O4	-5.91	122.36	125.90
36	1	1419	A	C5'-C4'-O4'	5.91	116.19	109.10
1	6	1180	C	N3-C4-N4	5.91	122.14	118.00
1	6	1264	G	N3-C4-C5	5.91	131.55	128.60
1	6	1542	G	N1-C2-N3	5.91	127.44	123.90
36	5	61	A	C5-N7-C8	5.91	106.86	103.90
36	5	1126	G	C2-N3-C4	-5.91	108.95	111.90
36	5	2978	U	O5'-P-OP1	5.91	117.79	110.70
37	7	60	G	O4'-C1'-N9	5.91	112.93	108.20
38	8	1	A	N3-C4-C5	-5.91	122.66	126.80
36	1	366	A	N9-C4-C5	5.91	108.16	105.80
36	1	1909	A	N3-C4-C5	5.91	130.94	126.80
36	1	2908	G	C5-C6-O6	-5.91	125.06	128.60
1	6	1753	A	C8-N9-C1'	-5.91	117.07	127.70
36	5	848	A	N7-C8-N9	5.91	116.75	113.80
1	2	1432	U	O4'-C1'-N1	5.91	112.92	108.20
1	2	1591	C	C5-C4-N4	5.91	124.33	120.20
1	2	1613	U	N3-C2-O2	-5.91	118.07	122.20
36	1	511	G	C5-C6-O6	-5.91	125.06	128.60
36	1	595	G	C4-C5-C6	5.91	122.34	118.80
36	1	595	G	N3-C4-N9	5.91	129.54	126.00
36	1	856	G	N1-C2-N2	-5.91	110.88	116.20
36	1	932	U	N3-C4-O4	-5.91	115.27	119.40
36	1	1157	G	C4-C5-C6	5.91	122.34	118.80
36	1	2443	A	C5-C6-N6	-5.91	118.97	123.70
36	1	2560	C	C6-N1-C2	-5.91	117.94	120.30
1	6	175	G	C8-N9-C1'	-5.91	119.32	127.00
1	6	603	U	O5'-P-OP1	-5.91	100.39	105.70
1	6	971	A	C4-C5-N7	5.91	113.65	110.70
1	6	1389	C	C6-N1-C2	-5.91	117.94	120.30
1	6	1645	G	N1-C2-N3	-5.91	120.36	123.90
36	5	94	G	C8-N9-C1'	5.91	134.68	127.00
36	5	1372	C	O5'-P-OP1	5.91	117.79	110.70
36	5	1653	G	C4-C5-N7	-5.91	108.44	110.80
36	5	2953	U	N1-C2-O2	-5.91	118.67	122.80
36	5	3260	G	N1-C2-N3	5.91	127.44	123.90
1	2	280	U	P-O3'-C3'	5.90	126.78	119.70
36	1	1525	G	N3-C4-C5	-5.90	125.65	128.60
36	1	1755	C	C5-C6-N1	5.90	123.95	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2731	U	OP2-P-O3'	5.90	118.19	105.20
36	1	3295	A	N1-C6-N6	-5.90	115.06	118.60
1	2	332	U	C6-N1-C2	5.90	124.54	121.00
1	2	1789	G	N1-C6-O6	5.90	123.44	119.90
36	1	375	A	C5-C6-N6	-5.90	118.98	123.70
36	1	517	G	C5-N7-C8	-5.90	101.35	104.30
36	1	989	A	C4-C5-C6	-5.90	114.05	117.00
36	1	1065	A	N1-C6-N6	-5.90	115.06	118.60
36	1	1147	G	C6-N1-C2	-5.90	121.56	125.10
36	1	1510	G	N3-C4-C5	-5.90	125.65	128.60
36	1	1789	G	C2-N3-C4	5.90	114.85	111.90
36	1	1900	A	C8-N9-C4	5.90	108.16	105.80
36	1	2623	G	C5-C6-N1	-5.90	108.55	111.50
36	1	2669	G	C6-C5-N7	5.90	133.94	130.40
38	4	53	A	N1-C6-N6	-5.90	115.06	118.60
52	M6	58	LEU	CA-CB-CG	5.90	128.87	115.30
1	6	310	C	N1-C2-N3	-5.90	115.07	119.20
1	6	576	G	C4-C5-C6	5.90	122.34	118.80
1	6	1518	C	O5'-P-OP1	-5.90	100.39	105.70
36	5	952	A	C5-C6-N6	5.90	128.42	123.70
36	5	1343	A	O5'-P-OP2	-5.90	100.39	105.70
36	5	2197	C	N3-C4-C5	5.90	124.26	121.90
36	5	2397	A	N7-C8-N9	5.90	116.75	113.80
36	5	2618	G	OP1-P-OP2	5.90	128.46	119.60
1	2	766	U	N1-C2-O2	5.90	126.93	122.80
36	1	53	G	C4-N9-C1'	5.90	134.17	126.50
36	1	146	U	C6-N1-C2	-5.90	117.46	121.00
36	1	1311	G	N3-C2-N2	-5.90	115.77	119.90
36	1	1718	G	N3-C4-N9	-5.90	122.46	126.00
36	1	2646	C	O5'-P-OP1	5.90	117.78	110.70
1	6	295	A	C8-N9-C4	5.90	108.16	105.80
1	6	453	U	C5-C6-N1	5.90	125.65	122.70
36	5	770	G	C8-N9-C4	-5.90	104.04	106.40
36	5	975	C	N1-C2-O2	-5.90	115.36	118.90
36	5	1322	U	C5-C4-O4	-5.90	122.36	125.90
36	5	1389	G	N1-C2-N2	-5.90	110.89	116.20
36	5	1395	G	O5'-P-OP1	-5.90	100.39	105.70
36	5	2165	G	C5-C6-O6	-5.90	125.06	128.60
36	5	2826	U	C2-N3-C4	-5.90	123.46	127.00
36	5	3117	C	C2-N1-C1'	5.90	125.29	118.80
1	2	937	C	C6-N1-C2	-5.90	117.94	120.30
1	2	1539	G	N1-C6-O6	5.90	123.44	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2392	C	N3-C4-C5	5.90	124.26	121.90
36	1	2794	G	C8-N9-C4	-5.90	104.04	106.40
36	1	2939	G	C2-N3-C4	5.90	114.85	111.90
37	3	2	G	O5'-P-OP1	-5.90	100.39	105.70
36	5	613	G	N3-C4-N9	-5.90	122.46	126.00
36	5	923	C	C5-C6-N1	-5.90	118.05	121.00
36	5	2549	G	C8-N9-C4	-5.90	104.04	106.40
36	5	2922	G	N9-C4-C5	5.90	107.76	105.40
36	5	3314	A	C6-C5-N7	-5.90	128.17	132.30
1	2	1768	G	N3-C4-C5	-5.90	125.65	128.60
36	1	105	C	C5-C6-N1	-5.90	118.05	121.00
36	1	613	G	C4-C5-N7	5.90	113.16	110.80
36	1	2949	U	C4-C5-C6	5.90	123.24	119.70
36	1	3177	G	C5-C6-N1	5.90	114.45	111.50
36	1	3285	C	N1-C2-O2	5.90	122.44	118.90
38	4	56	G	N1-C2-N2	-5.90	110.89	116.20
1	6	1130	G	C6-N1-C2	-5.90	121.56	125.10
36	5	290	G	O5'-P-OP1	-5.90	100.39	105.70
36	5	1307	G	O4'-C1'-N9	5.90	112.92	108.20
36	5	3219	G	N9-C4-C5	5.90	107.76	105.40
47	m0	156	ARG	NE-CZ-NH1	5.90	123.25	120.30
1	2	1409	G	N1-C6-O6	5.90	123.44	119.90
36	1	609	G	C8-N9-C4	5.90	108.76	106.40
36	1	1381	A	N1-C2-N3	5.90	132.25	129.30
38	4	109	A	C5-N7-C8	-5.90	100.95	103.90
1	6	154	G	C4-C5-N7	5.90	113.16	110.80
1	6	919	A	C5-C6-N6	-5.90	118.98	123.70
36	5	658	G	C6-C5-N7	-5.90	126.86	130.40
36	5	1379	G	O4'-C1'-N9	-5.90	103.48	108.20
36	5	1712	G	C5-C6-O6	5.90	132.14	128.60
36	5	1905	G	N7-C8-N9	-5.90	110.15	113.10
36	5	2285	C	C5-C4-N4	5.90	124.33	120.20
38	8	38	U	N3-C4-O4	-5.90	115.27	119.40
1	2	972	G	N1-C6-O6	5.89	123.44	119.90
1	2	1582	U	C5-C4-O4	-5.89	122.36	125.90
36	1	839	C	N3-C4-C5	5.89	124.26	121.90
36	1	1077	U	C2-N3-C4	-5.89	123.46	127.00
36	1	1362	G	C6-C5-N7	5.89	133.94	130.40
36	1	2165	G	N1-C6-O6	5.89	123.44	119.90
36	1	2372	A	N3-C4-N9	5.89	132.12	127.40
36	1	2619	G	OP1-P-O3'	5.89	118.17	105.20
36	1	3213	A	C6-C5-N7	-5.89	128.17	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1789	G	C8-N9-C1'	-5.89	119.34	127.00
36	5	52	A	OP1-P-OP2	5.89	128.44	119.60
36	5	695	C	N3-C4-C5	5.89	124.26	121.90
36	5	1319	G	N7-C8-N9	-5.89	110.15	113.10
36	5	2264	U	OP1-P-OP2	-5.89	110.76	119.60
1	2	311	U	C2-N1-C1'	5.89	124.77	117.70
36	1	415	G	C6-C5-N7	-5.89	126.86	130.40
36	1	421	G	C2-N3-C4	5.89	114.85	111.90
36	1	1005	G	C6-C5-N7	5.89	133.94	130.40
36	1	2093	A	C5-C6-N1	5.89	120.65	117.70
52	M6	78	ARG	NE-CZ-NH2	-5.89	117.35	120.30
1	6	371	G	C5-C6-N1	-5.89	108.55	111.50
1	6	1622	G	C5-N7-C8	-5.89	101.35	104.30
36	5	632	G	N3-C4-N9	5.89	129.53	126.00
36	5	1404	G	C4-C5-N7	5.89	113.16	110.80
36	5	1886	A	N1-C6-N6	-5.89	115.06	118.60
36	5	2827	U	C2-N3-C4	5.89	130.54	127.00
36	5	3344	A	N1-C6-N6	-5.89	115.06	118.60
36	1	1005	G	C5-C6-O6	5.89	132.13	128.60
36	1	2238	G	N1-C2-N2	5.89	121.50	116.20
36	1	2721	A	N7-C8-N9	5.89	116.75	113.80
36	1	2860	U	N1-C2-O2	5.89	126.92	122.80
1	6	1463	C	C2-N1-C1'	-5.89	112.32	118.80
1	6	1673	G	C5-C6-O6	-5.89	125.06	128.60
36	5	939	U	O5'-P-OP1	5.89	117.77	110.70
36	5	1120	A	OP1-P-O3'	-5.89	92.24	105.20
36	5	1166	G	N7-C8-N9	5.89	116.05	113.10
36	5	1475	A	N1-C2-N3	5.89	132.25	129.30
1	2	1389	C	N1-C2-O2	5.89	122.43	118.90
36	1	27	C	OP1-P-OP2	5.89	128.44	119.60
36	1	754	G	N3-C4-C5	5.89	131.54	128.60
36	1	1423	C	C6-N1-C2	-5.89	117.94	120.30
36	1	2371	G	C4-N9-C1'	5.89	134.16	126.50
36	1	2979	U	OP2-P-O3'	5.89	118.16	105.20
1	6	301	A	C6-N1-C2	-5.89	115.07	118.60
1	6	565	C	C5-C6-N1	-5.89	118.06	121.00
1	6	1395	G	C5-C6-O6	-5.89	125.07	128.60
36	5	783	A	C5-C6-N6	-5.89	118.99	123.70
36	5	812	G	N1-C2-N3	5.89	127.43	123.90
36	5	852	U	N1-C2-O2	5.89	126.92	122.80
36	5	1114	U	C2-N3-C4	5.89	130.53	127.00
36	5	2149	A	N3-C4-C5	5.89	130.92	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2316	G	C5-C6-O6	5.89	132.13	128.60
36	5	2616	C	N1-C2-N3	5.89	123.32	119.20
36	5	3200	G	N7-C8-N9	5.89	116.04	113.10
72	o6	45	ARG	NE-CZ-NH1	5.89	123.25	120.30
1	2	103	A	C6-C5-N7	-5.89	128.18	132.30
36	1	780	A	N7-C8-N9	5.89	116.74	113.80
36	1	1304	A	N1-C6-N6	-5.89	115.07	118.60
1	6	22	A	N7-C8-N9	5.89	116.74	113.80
1	6	156	A	C2-N3-C4	-5.89	107.66	110.60
36	5	2287	C	N1-C2-N3	5.89	123.32	119.20
36	5	2688	U	C5-C4-O4	-5.89	122.37	125.90
36	5	2927	C	N3-C4-C5	5.89	124.25	121.90
1	2	1598	U	N1-C2-O2	-5.89	118.68	122.80
36	1	290	G	C5-C6-O6	-5.89	125.07	128.60
36	1	1728	G	C8-N9-C1'	-5.89	119.35	127.00
36	1	2651	G	C8-N9-C4	5.89	108.75	106.40
36	1	3088	G	C5-N7-C8	5.89	107.24	104.30
36	1	3260	G	N1-C2-N3	5.89	127.43	123.90
1	6	95	G	C5-C6-O6	5.89	132.13	128.60
1	6	545	A	N1-C6-N6	-5.89	115.07	118.60
36	5	2247	G	C5-C6-N1	5.89	114.44	111.50
36	5	2282	U	P-O5'-C5'	-5.89	111.48	120.90
36	5	3380	U	N3-C4-C5	-5.89	111.07	114.60
38	8	2	A	N7-C8-N9	5.89	116.74	113.80
1	2	449	C	C6-N1-C1'	5.88	127.86	120.80
1	2	1015	U	C5-C6-N1	-5.88	119.76	122.70
1	2	1503	A	N1-C6-N6	5.88	122.13	118.60
1	2	1671	A	C8-N9-C4	5.88	108.15	105.80
1	2	1793	G	N3-C4-N9	5.88	129.53	126.00
36	1	197	G	C6-C5-N7	-5.88	126.87	130.40
36	1	610	G	C6-C5-N7	-5.88	126.87	130.40
36	1	1794	G	N7-C8-N9	-5.88	110.16	113.10
37	3	30	G	N3-C4-N9	5.88	129.53	126.00
1	6	1671	A	N9-C4-C5	5.88	108.15	105.80
36	5	647	A	C5-C6-N1	-5.88	114.76	117.70
36	5	820	A	N1-C2-N3	5.88	132.24	129.30
36	5	971	G	C5-N7-C8	5.88	107.24	104.30
36	5	1154	A	N9-C4-C5	5.88	108.15	105.80
36	5	2971	A	C5-C6-N6	5.88	128.41	123.70
1	2	1739	C	C6-N1-C2	5.88	122.65	120.30
36	1	2866	U	C2-N3-C4	-5.88	123.47	127.00
37	3	30	G	OP1-P-O3'	5.88	118.14	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1316	C	C4-C5-C6	5.88	120.34	117.40
36	5	1839	A	O5'-P-OP2	5.88	117.76	110.70
36	5	1906	G	O5'-P-OP2	-5.88	100.41	105.70
36	5	2832	C	O5'-P-OP1	-5.88	100.41	105.70
36	5	2977	G	C6-C5-N7	-5.88	126.87	130.40
1	2	1431	C	C6-N1-C1'	-5.88	113.74	120.80
36	1	419	G	N1-C2-N2	-5.88	110.91	116.20
36	1	601	U	C2-N1-C1'	5.88	124.76	117.70
36	1	669	U	C5-C4-O4	-5.88	122.37	125.90
36	1	2102	U	C5-C6-N1	-5.88	119.76	122.70
36	1	2554	A	N1-C6-N6	-5.88	115.07	118.60
36	1	2829	U	C5-C4-O4	5.88	129.43	125.90
1	6	926	A	C2-N3-C4	-5.88	107.66	110.60
1	6	972	G	C4-C5-C6	5.88	122.33	118.80
1	6	1110	G	C6-C5-N7	-5.88	126.87	130.40
36	5	2518	C	C5-C4-N4	-5.88	116.08	120.20
36	5	3062	G	C6-C5-N7	-5.88	126.87	130.40
36	5	3188	G	C4-N9-C1'	5.88	134.15	126.50
36	5	3228	C	P-O3'-C3'	5.88	126.76	119.70
36	1	1604	G	C8-N9-C1'	-5.88	119.36	127.00
36	1	2633	U	N3-C4-C5	-5.88	111.07	114.60
36	5	2403	G	OP1-P-O3'	5.88	118.14	105.20
36	5	2630	C	N1-C2-O2	5.88	122.43	118.90
36	5	3309	G	OP1-P-OP2	-5.88	110.78	119.60
1	2	392	G	C5-C6-O6	-5.88	125.07	128.60
36	1	941	G	C5-N7-C8	5.88	107.24	104.30
36	1	1313	G	C2-N3-C4	-5.88	108.96	111.90
36	1	1385	C	N1-C2-O2	-5.88	115.37	118.90
36	1	1592	G	C8-N9-C1'	-5.88	119.36	127.00
36	1	2820	A	OP1-P-OP2	-5.88	110.78	119.60
36	1	3353	G	OP2-P-O3'	5.88	118.13	105.20
1	6	34	G	C2-N3-C4	-5.88	108.96	111.90
1	6	670	U	N3-C2-O2	-5.88	118.08	122.20
1	6	1786	G	OP2-P-O3'	5.88	118.13	105.20
36	5	294	U	C2-N1-C1'	-5.88	110.64	117.70
36	5	978	G	C8-N9-C1'	5.88	134.64	127.00
36	5	1875	G	N3-C4-C5	5.88	131.54	128.60
36	5	3003	G	N1-C6-O6	-5.88	116.37	119.90
1	2	1498	G	C4-N9-C1'	5.88	134.14	126.50
36	1	609	G	C4-C5-C6	5.88	122.33	118.80
36	1	1443	G	C2-N3-C4	-5.88	108.96	111.90
36	1	1499	C	C2-N3-C4	5.88	122.84	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	755	A	C6-C5-N7	-5.88	128.19	132.30
1	6	1445	G	N1-C6-O6	5.88	123.43	119.90
36	5	68	C	C5-C6-N1	5.88	123.94	121.00
36	5	1286	A	N7-C8-N9	-5.88	110.86	113.80
36	5	1304	A	C6-N1-C2	-5.88	115.07	118.60
36	5	1322	U	O5'-P-OP2	5.88	117.75	110.70
36	5	1729	A	O4'-C1'-N9	-5.88	103.50	108.20
36	5	2201	G	C8-N9-C4	5.88	108.75	106.40
36	5	2792	A	N7-C8-N9	5.88	116.74	113.80
36	5	3197	G	OP1-P-OP2	-5.88	110.79	119.60
1	2	1651	A	C2-N3-C4	-5.88	107.66	110.60
36	1	624	G	N3-C4-N9	5.88	129.53	126.00
36	1	2132	C	O5'-P-OP2	-5.88	100.41	105.70
36	1	2984	C	N1-C2-N3	5.88	123.31	119.20
36	1	3210	A	N9-C4-C5	5.88	108.15	105.80
36	1	3295	A	C5-C6-N6	5.88	128.40	123.70
37	3	117	A	C2-N3-C4	-5.88	107.66	110.60
38	4	41	A	C5-C6-N1	5.88	120.64	117.70
36	5	1906	G	O4'-C1'-N9	-5.88	103.50	108.20
36	5	2877	G	N3-C2-N2	5.88	124.01	119.90
36	5	3060	C	N3-C4-N4	5.88	122.11	118.00
1	2	1358	G	N7-C8-N9	-5.87	110.16	113.10
1	2	1430	U	N3-C4-C5	-5.87	111.08	114.60
36	1	727	G	C6-N1-C2	-5.87	121.58	125.10
36	1	1446	A	C4-C5-C6	5.87	119.94	117.00
36	1	1610	G	C5-C6-N1	-5.87	108.56	111.50
36	1	2366	C	N3-C4-C5	5.87	124.25	121.90
36	1	2960	C	N1-C2-N3	5.87	123.31	119.20
36	1	3056	U	N3-C2-O2	5.87	126.31	122.20
1	6	440	U	N1-C2-N3	5.87	118.42	114.90
1	6	1002	G	C5-C6-N1	5.87	114.44	111.50
1	6	1786	G	C5-C6-O6	5.87	132.12	128.60
36	5	339	C	O5'-P-OP2	-5.87	100.41	105.70
36	5	656	A	N1-C6-N6	5.87	122.12	118.60
36	5	2642	A	N1-C6-N6	5.87	122.12	118.60
36	5	3150	A	N9-C4-C5	-5.87	103.45	105.80
1	2	25	C	C2-N3-C4	-5.87	116.96	119.90
1	2	191	C	C6-N1-C1'	5.87	127.84	120.80
1	2	1290	U	O4'-C1'-N1	5.87	112.90	108.20
36	1	715	A	C5-N7-C8	-5.87	100.96	103.90
36	1	1065	A	C6-N1-C2	-5.87	115.08	118.60
36	1	1296	C	O5'-P-OP1	5.87	117.75	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2384	A	N3-C4-C5	-5.87	122.69	126.80
36	1	2738	A	N7-C8-N9	5.87	116.73	113.80
36	1	3388	C	N3-C2-O2	-5.87	117.79	121.90
1	6	1615	C	N1-C2-O2	-5.87	115.38	118.90
36	5	1143	A	C5-N7-C8	-5.87	100.96	103.90
36	5	3330	A	N3-C4-N9	5.87	132.10	127.40
36	5	3361	G	C5-C6-O6	-5.87	125.08	128.60
36	1	670	C	C6-N1-C2	5.87	122.65	120.30
36	1	916	G	N9-C4-C5	5.87	107.75	105.40
36	1	1345	G	C5-N7-C8	-5.87	101.36	104.30
1	6	1125	A	OP1-P-OP2	5.87	128.41	119.60
4	s2	233	GLN	C-N-CD	5.87	140.73	128.40
13	c1	5	LEU	CA-CB-CG	5.87	128.80	115.30
36	5	101	G	N1-C6-O6	5.87	123.42	119.90
36	5	1345	G	N3-C4-C5	5.87	131.53	128.60
36	5	2407	C	C5-C6-N1	5.87	123.94	121.00
1	2	548	G	N7-C8-N9	5.87	116.03	113.10
1	2	797	G	N3-C4-C5	5.87	131.53	128.60
36	1	129	U	N3-C4-O4	5.87	123.51	119.40
36	1	1405	U	N3-C4-C5	5.87	118.12	114.60
36	1	1466	G	C4-N9-C1'	5.87	134.13	126.50
36	1	2614	G	C6-N1-C2	-5.87	121.58	125.10
36	1	2729	U	C6-N1-C2	5.87	124.52	121.00
36	1	3143	C	C6-N1-C1'	-5.87	113.76	120.80
1	6	297	U	C5-C6-N1	5.87	125.63	122.70
1	6	773	C	O5'-P-OP2	-5.87	100.42	105.70
1	6	887	A	C5-C6-N1	-5.87	114.77	117.70
1	6	1567	U	C2-N1-C1'	5.87	124.74	117.70
1	6	1637	C	O4'-C1'-N1	-5.87	103.50	108.20
36	5	882	A	P-O3'-C3'	5.87	126.74	119.70
36	5	1313	G	C2-N3-C4	5.87	114.83	111.90
36	5	1615	C	C5-C4-N4	5.87	124.31	120.20
36	5	2917	G	C5-N7-C8	-5.87	101.36	104.30
36	5	3146	G	C8-N9-C1'	-5.87	119.37	127.00
36	1	2793	G	C8-N9-C4	-5.87	104.05	106.40
36	1	3134	A	N7-C8-N9	5.87	116.73	113.80
36	5	2103	U	N3-C2-O2	-5.87	118.09	122.20
36	5	3269	U	C5-C6-N1	-5.87	119.77	122.70
1	2	311	U	C4-C5-C6	5.87	123.22	119.70
36	1	28	C	C2-N3-C4	-5.87	116.97	119.90
36	1	301	G	N9-C4-C5	5.87	107.75	105.40
36	1	1100	U	N3-C2-O2	-5.87	118.09	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1304	A	N3-C4-N9	-5.87	122.71	127.40
36	1	1551	C	C2-N1-C1'	-5.87	112.35	118.80
36	1	1824	U	C6-N1-C2	-5.87	117.48	121.00
36	1	2216	G	C5-C6-O6	-5.87	125.08	128.60
36	1	2398	A	C4-C5-C6	5.87	119.93	117.00
36	1	2761	G	O5'-P-OP2	-5.87	100.42	105.70
36	1	2938	G	N1-C6-O6	5.87	123.42	119.90
36	1	3083	G	C5-C6-O6	-5.87	125.08	128.60
51	M5	116	LEU	CA-CB-CG	-5.87	101.81	115.30
70	O4	8	ARG	NE-CZ-NH2	-5.87	117.37	120.30
1	6	913	G	C8-N9-C4	-5.87	104.05	106.40
1	6	1746	A	N3-C4-N9	-5.87	122.71	127.40
36	5	1500	G	N1-C6-O6	5.87	123.42	119.90
36	5	3139	A	N1-C2-N3	5.87	132.23	129.30
37	7	10	C	N3-C4-C5	5.87	124.25	121.90
1	2	353	A	C2-N3-C4	-5.86	107.67	110.60
1	2	1010	C	C2-N1-C1'	-5.86	112.35	118.80
1	2	1324	G	N3-C2-N2	-5.86	115.80	119.90
1	2	1433	G	N3-C4-C5	-5.86	125.67	128.60
1	2	1656	U	N3-C4-O4	5.86	123.50	119.40
36	1	97	U	C2-N3-C4	-5.86	123.48	127.00
36	1	1191	U	N3-C4-C5	5.86	118.12	114.60
36	1	1411	C	N3-C4-N4	-5.86	113.89	118.00
36	1	1907	C	C2-N3-C4	-5.86	116.97	119.90
36	1	2614	G	N3-C2-N2	5.86	124.00	119.90
36	1	2794	G	C4-C5-N7	-5.86	108.45	110.80
36	1	3103	A	C5-C6-N1	5.86	120.63	117.70
1	6	154	G	N1-C6-O6	5.86	123.42	119.90
1	6	351	C	C4-C5-C6	-5.86	114.47	117.40
1	6	589	C	N1-C2-O2	-5.86	115.38	118.90
1	6	1642	G	C4-C5-C6	-5.86	115.28	118.80
1	6	1746	A	C5-C6-N6	5.86	128.39	123.70
36	5	112	U	C6-N1-C2	-5.86	117.48	121.00
36	5	717	C	C2-N1-C1'	5.86	125.25	118.80
36	5	959	C	O4'-C1'-N1	5.86	112.89	108.20
36	5	1048	A	N9-C4-C5	5.86	108.14	105.80
36	5	1118	C	OP1-P-OP2	-5.86	110.81	119.60
36	5	1590	G	O4'-C1'-N9	-5.86	103.51	108.20
36	5	1834	U	N1-C2-N3	5.86	118.42	114.90
36	5	1881	A	C6-C5-N7	-5.86	128.19	132.30
36	5	2367	A	OP1-P-OP2	5.86	128.39	119.60
36	5	2991	A	C4-C5-N7	-5.86	107.77	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3058	U	C5-C4-O4	5.86	129.42	125.90
36	5	3150	A	C4-C5-N7	5.86	113.63	110.70
37	7	84	A	C6-C5-N7	-5.86	128.19	132.30
37	7	95	A	C6-C5-N7	-5.86	128.20	132.30
1	2	978	A	C2-N3-C4	5.86	113.53	110.60
36	1	2181	C	N3-C2-O2	-5.86	117.80	121.90
36	1	2778	G	N1-C2-N3	5.86	127.42	123.90
36	5	1668	G	C6-C5-N7	-5.86	126.88	130.40
1	2	543	C	C6-N1-C1'	-5.86	113.77	120.80
1	2	704	C	N1-C2-O2	5.86	122.42	118.90
36	1	48	A	N9-C4-C5	5.86	108.14	105.80
36	1	62	A	C5-C6-N1	-5.86	114.77	117.70
36	1	648	C	N1-C2-N3	5.86	123.30	119.20
36	1	929	A	C6-C5-N7	-5.86	128.20	132.30
36	1	2143	A	N1-C6-N6	5.86	122.12	118.60
36	1	2370	G	C5-C6-O6	5.86	132.12	128.60
36	1	2768	U	O5'-P-OP2	-5.86	100.43	105.70
36	1	3383	G	C4-N9-C1'	-5.86	118.88	126.50
1	6	96	G	C4-N9-C1'	5.86	134.12	126.50
1	6	575	C	C2-N3-C4	-5.86	116.97	119.90
1	6	1130	G	C2-N3-C4	5.86	114.83	111.90
1	6	1390	U	O4'-C1'-N1	5.86	112.89	108.20
1	6	1502	G	O5'-P-OP2	-5.86	100.43	105.70
36	5	820	A	C6-N1-C2	-5.86	115.08	118.60
36	5	856	G	C8-N9-C4	-5.86	104.06	106.40
36	5	1518	U	OP2-P-O3'	5.86	118.09	105.20
36	5	2130	G	C8-N9-C1'	5.86	134.62	127.00
36	5	2657	A	C5-C6-N1	5.86	120.63	117.70
36	5	3393	U	N1-C2-N3	5.86	118.42	114.90
38	8	19	C	N3-C2-O2	-5.86	117.80	121.90
1	2	379	U	N1-C2-O2	5.86	126.90	122.80
36	1	19	U	C5-C4-O4	5.86	129.41	125.90
36	1	677	A	C8-N9-C4	5.86	108.14	105.80
36	1	1550	C	N1-C2-O2	5.86	122.42	118.90
36	1	2779	A	N1-C6-N6	5.86	122.12	118.60
36	5	787	G	C4-C5-C6	5.86	122.32	118.80
36	5	1134	G	N9-C4-C5	5.86	107.74	105.40
36	5	2734	A	OP1-P-OP2	-5.86	110.81	119.60
36	1	731	U	N3-C4-C5	-5.86	111.08	114.60
36	1	1105	A	C8-N9-C4	5.86	108.14	105.80
36	1	2756	C	C2-N3-C4	-5.86	116.97	119.90
36	1	3184	A	C6-N1-C2	-5.86	115.08	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	78	U	C2-N1-C1'	5.86	124.73	117.70
36	5	2247	G	C8-N9-C4	5.86	108.74	106.40
36	5	2912	G	N1-C2-N3	5.86	127.41	123.90
1	2	361	C	N1-C2-O2	-5.86	115.39	118.90
1	2	804	A	C5-C6-N1	-5.86	114.77	117.70
1	2	991	G	N1-C6-O6	-5.86	116.39	119.90
1	2	993	A	C6-C5-N7	-5.86	128.20	132.30
1	2	1780	G	C6-C5-N7	-5.86	126.89	130.40
36	1	232	G	C4-C5-N7	-5.86	108.46	110.80
36	1	1403	C	OP1-P-O3'	5.86	118.08	105.20
36	1	1453	A	N3-C4-N9	5.86	132.09	127.40
36	1	3120	C	O5'-P-OP2	-5.86	100.43	105.70
37	3	29	C	N3-C2-O2	-5.86	117.80	121.90
37	3	89	G	N1-C6-O6	5.86	123.41	119.90
38	4	12	A	N1-C2-N3	-5.86	126.37	129.30
38	4	52	A	O5'-P-OP1	-5.86	100.43	105.70
36	5	1150	A	O5'-P-OP1	5.86	117.73	110.70
36	5	2691	A	C5-C6-N6	-5.86	119.02	123.70
36	5	2867	C	O5'-P-OP1	-5.86	100.43	105.70
1	2	159	U	OP1-P-OP2	-5.85	110.82	119.60
1	2	475	A	N7-C8-N9	-5.85	110.87	113.80
36	1	1115	G	N7-C8-N9	5.85	116.03	113.10
36	1	2119	A	C5-N7-C8	-5.85	100.97	103.90
36	1	2608	G	C6-C5-N7	-5.85	126.89	130.40
36	1	2832	C	C6-N1-C2	5.85	122.64	120.30
36	1	3124	G	C8-N9-C4	-5.85	104.06	106.40
1	6	553	G	N9-C4-C5	-5.85	103.06	105.40
1	6	670	U	N1-C2-O2	5.85	126.90	122.80
36	5	591	G	OP1-P-O3'	5.85	118.08	105.20
36	5	805	G	C8-N9-C4	5.85	108.74	106.40
36	5	1470	U	C2-N1-C1'	5.85	124.72	117.70
36	5	2378	C	OP1-P-OP2	-5.85	110.82	119.60
36	5	2607	G	C4-C5-C6	5.85	122.31	118.80
1	2	162	A	N3-C4-C5	-5.85	122.70	126.80
1	2	361	C	C6-N1-C1'	5.85	127.82	120.80
36	1	1165	A	N1-C2-N3	5.85	132.23	129.30
36	1	1554	U	C5-C4-O4	-5.85	122.39	125.90
37	3	98	C	C2-N1-C1'	-5.85	112.36	118.80
1	6	1178	G	C4-N9-C1'	5.85	134.11	126.50
1	6	1466	G	C4-C5-N7	5.85	113.14	110.80
36	5	780	A	N9-C4-C5	5.85	108.14	105.80
36	5	1435	A	C5-C6-N1	5.85	120.63	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2117	A	N1-C6-N6	-5.85	115.09	118.60
36	5	2329	C	C5-C4-N4	-5.85	116.10	120.20
36	5	2863	G	C5-N7-C8	-5.85	101.37	104.30
36	5	3245	A	N9-C4-C5	-5.85	103.46	105.80
36	5	3384	U	N3-C2-O2	5.85	126.30	122.20
1	2	1619	C	C6-N1-C2	-5.85	117.96	120.30
23	D1	78	LEU	CA-CB-CG	5.85	128.76	115.30
36	1	1135	A	C8-N9-C4	-5.85	103.46	105.80
36	1	3260	G	C8-N9-C1'	-5.85	119.39	127.00
36	5	41	G	O5'-P-OP2	-5.85	100.43	105.70
36	5	2628	A	C2-N3-C4	-5.85	107.67	110.60
37	7	91	G	N3-C4-C5	5.85	131.53	128.60
1	2	144	U	C5-C6-N1	-5.85	119.78	122.70
36	1	1052	U	N3-C4-C5	5.85	118.11	114.60
36	1	1293	U	C2-N3-C4	-5.85	123.49	127.00
36	1	1581	C	C6-N1-C2	-5.85	117.96	120.30
36	1	1588	A	C4-C5-N7	-5.85	107.78	110.70
36	1	1829	G	N1-C6-O6	-5.85	116.39	119.90
36	1	2186	U	C5-C4-O4	5.85	129.41	125.90
36	1	2751	G	C8-N9-C1'	5.85	134.60	127.00
37	3	25	G	C5-C6-N1	5.85	114.42	111.50
1	6	805	U	O5'-P-OP2	5.85	117.72	110.70
1	6	1061	A	N1-C6-N6	5.85	122.11	118.60
1	6	1185	U	C2-N1-C1'	5.85	124.72	117.70
36	5	594	U	C5-C6-N1	5.85	125.62	122.70
36	5	1121	U	OP1-P-OP2	5.85	128.37	119.60
36	5	2339	C	N3-C4-N4	5.85	122.09	118.00
36	5	2611	U	O5'-P-OP2	-5.85	100.44	105.70
36	5	2621	G	N1-C2-N3	5.85	127.41	123.90
36	5	2874	G	C8-N9-C1'	-5.85	119.40	127.00
36	5	3096	C	N3-C2-O2	-5.85	117.81	121.90
37	7	22	A	C8-N9-C4	-5.85	103.46	105.80
1	2	987	G	N3-C4-C5	-5.85	125.68	128.60
36	1	642	U	C6-N1-C2	-5.85	117.49	121.00
36	1	752	C	N3-C4-N4	-5.85	113.91	118.00
36	1	894	G	N9-C4-C5	5.85	107.74	105.40
36	1	1288	U	C5-C6-N1	-5.85	119.78	122.70
36	1	1905	G	C8-N9-C4	-5.85	104.06	106.40
36	1	1927	G	N9-C4-C5	-5.85	103.06	105.40
37	3	25	G	N1-C6-O6	-5.85	116.39	119.90
1	6	396	G	C8-N9-C4	-5.85	104.06	106.40
1	6	634	G	N1-C6-O6	-5.85	116.39	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1164	G	C4-C5-C6	-5.85	115.29	118.80
36	5	1170	A	O5'-P-OP1	-5.85	100.44	105.70
36	5	2808	A	C6-N1-C2	5.85	122.11	118.60
36	5	3094	A	O5'-P-OP1	-5.85	100.44	105.70
36	1	195	U	N3-C4-C5	-5.85	111.09	114.60
36	1	752	C	N3-C4-C5	5.85	124.24	121.90
36	1	2190	U	OP2-P-O3'	5.85	118.06	105.20
1	6	903	U	N3-C2-O2	5.85	126.29	122.20
36	5	3110	C	O5'-P-OP2	5.85	117.72	110.70
36	1	730	C	N3-C2-O2	-5.84	117.81	121.90
36	1	915	A	OP1-P-OP2	5.84	128.37	119.60
36	1	1164	G	C5-C6-N1	5.84	114.42	111.50
36	1	2274	U	N3-C4-C5	5.84	118.11	114.60
36	1	2332	A	C4-C5-N7	5.84	113.62	110.70
36	1	3100	U	C2-N1-C1'	-5.84	110.69	117.70
36	1	3288	G	N1-C2-N3	-5.84	120.39	123.90
1	6	939	A	N1-C2-N3	5.84	132.22	129.30
1	6	1504	G	C5-C6-O6	5.84	132.11	128.60
36	5	780	A	O5'-P-OP2	-5.84	100.44	105.70
36	5	1654	A	N1-C2-N3	5.84	132.22	129.30
36	5	2584	G	C6-C5-N7	-5.84	126.89	130.40
36	5	2920	U	O5'-P-OP1	-5.84	100.44	105.70
37	7	45	A	C4-C5-N7	-5.84	107.78	110.70
36	1	652	G	C8-N9-C1'	-5.84	119.40	127.00
1	6	370	A	C5-C6-N6	5.84	128.37	123.70
36	5	77	A	OP2-P-O3'	5.84	118.05	105.20
36	5	298	U	C6-N1-C2	-5.84	117.49	121.00
36	5	1194	G	C5-C6-N1	5.84	114.42	111.50
36	5	3202	G	C6-C5-N7	5.84	133.91	130.40
1	2	1030	A	C6-C5-N7	-5.84	128.21	132.30
36	1	439	C	C2-N3-C4	5.84	122.82	119.90
36	1	697	A	C4-N9-C1'	-5.84	115.79	126.30
36	1	1195	A	N3-C4-C5	-5.84	122.71	126.80
36	1	1436	U	O4'-C1'-N1	5.84	112.87	108.20
36	1	1883	A	N3-C4-C5	5.84	130.89	126.80
36	1	2425	G	C8-N9-C4	-5.84	104.06	106.40
36	1	2721	A	C5-N7-C8	-5.84	100.98	103.90
36	1	2901	G	N9-C4-C5	5.84	107.74	105.40
1	6	1732	A	C5-C6-N1	-5.84	114.78	117.70
36	5	206	G	N3-C4-C5	-5.84	125.68	128.60
36	5	567	G	N7-C8-N9	5.84	116.02	113.10
36	5	1193	A	C2-N3-C4	-5.84	107.68	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1550	C	C2-N3-C4	5.84	122.82	119.90
36	5	1868	G	N9-C4-C5	-5.84	103.06	105.40
36	5	1922	A	N7-C8-N9	-5.84	110.88	113.80
36	5	3015	G	C5-C6-O6	-5.84	125.09	128.60
36	5	3266	G	N3-C4-N9	-5.84	122.50	126.00
37	7	13	A	C4-C5-N7	5.84	113.62	110.70
37	7	46	A	OP2-P-O3'	5.84	118.05	105.20
1	2	1094	G	C8-N9-C4	5.84	108.74	106.40
1	2	1486	G	O4'-C1'-N9	5.84	112.87	108.20
1	2	1547	A	N1-C6-N6	-5.84	115.10	118.60
1	2	1751	C	N3-C4-N4	-5.84	113.91	118.00
36	1	59	G	P-O3'-C3'	5.84	126.71	119.70
36	1	383	G	C5-N7-C8	5.84	107.22	104.30
36	1	427	C	C5-C4-N4	-5.84	116.11	120.20
36	1	794	U	C5-C6-N1	-5.84	119.78	122.70
36	1	936	A	N3-C4-C5	5.84	130.89	126.80
36	1	1195	A	C4-C5-C6	5.84	119.92	117.00
36	1	2922	G	C4-C5-N7	5.84	113.14	110.80
1	6	522	U	C2-N1-C1'	-5.84	110.69	117.70
1	6	636	A	C6-N1-C2	-5.84	115.10	118.60
1	6	637	C	C2-N1-C1'	5.84	125.22	118.80
1	6	1031	U	C5-C6-N1	-5.84	119.78	122.70
1	6	1206	U	N3-C4-C5	-5.84	111.10	114.60
1	6	1560	U	N1-C2-O2	5.84	126.89	122.80
36	5	194	U	N3-C2-O2	-5.84	118.11	122.20
36	5	397	A	C4-C5-C6	5.84	119.92	117.00
36	5	2243	A	C5-C6-N1	5.84	120.62	117.70
36	5	2982	A	N9-C4-C5	-5.84	103.46	105.80
36	5	3226	A	N1-C2-N3	5.84	132.22	129.30
36	5	3242	G	N1-C2-N2	-5.84	110.94	116.20
36	1	369	A	N1-C2-N3	5.84	132.22	129.30
36	1	2952	G	C4-C5-N7	-5.84	108.47	110.80
38	4	25	G	O5'-P-OP2	-5.84	100.45	105.70
1	6	128	U	C2-N1-C1'	-5.84	110.69	117.70
1	6	300	A	C5-C6-N1	5.84	120.62	117.70
1	6	448	C	O4'-C1'-N1	5.84	112.87	108.20
1	6	937	C	C6-N1-C2	-5.84	117.97	120.30
36	5	888	A	C6-C5-N7	-5.84	128.21	132.30
36	5	1225	A	C8-N9-C4	5.84	108.14	105.80
36	5	1686	U	N3-C4-O4	5.84	123.49	119.40
36	1	381	U	O5'-P-OP1	-5.84	100.45	105.70
36	1	404	G	C2-N3-C4	-5.84	108.98	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2881	C	O5'-P-OP1	-5.84	100.45	105.70
36	1	3370	A	C8-N9-C4	-5.84	103.47	105.80
1	6	1494	C	N3-C2-O2	-5.84	117.81	121.90
36	5	691	A	C8-N9-C4	-5.84	103.47	105.80
36	5	2134	G	C4-N9-C1'	5.84	134.09	126.50
36	5	2727	A	N9-C4-C5	5.84	108.14	105.80
36	5	2863	G	N9-C4-C5	5.84	107.73	105.40
37	7	31	U	O5'-P-OP2	5.84	117.70	110.70
36	1	621	A	N7-C8-N9	5.83	116.72	113.80
36	1	1006	A	C6-C5-N7	-5.83	128.22	132.30
36	1	1552	G	C4-N9-C1'	5.83	134.09	126.50
36	1	2172	A	C2-N3-C4	-5.83	107.68	110.60
36	5	637	C	N1-C2-N3	-5.83	115.12	119.20
36	5	1167	U	N1-C2-N3	-5.83	111.40	114.90
36	5	2144	A	O5'-P-OP1	-5.83	100.45	105.70
1	2	435	C	N3-C4-C5	5.83	124.23	121.90
36	1	292	U	C6-N1-C2	5.83	124.50	121.00
36	1	2884	C	C6-N1-C1'	5.83	127.80	120.80
36	1	3271	G	C2-N3-C4	5.83	114.82	111.90
38	4	34	U	O4'-C1'-N1	5.83	112.87	108.20
36	5	18	G	N7-C8-N9	5.83	116.02	113.10
36	5	1085	A	C4-C5-C6	5.83	119.92	117.00
36	5	1147	G	C2-N3-C4	-5.83	108.98	111.90
36	5	1784	G	C5-C6-O6	-5.83	125.10	128.60
36	5	2667	A	C5-C6-N6	5.83	128.37	123.70
36	5	2852	C	C2-N3-C4	-5.83	116.98	119.90
36	5	2967	A	C6-N1-C2	-5.83	115.10	118.60
1	2	1589	C	N3-C4-N4	-5.83	113.92	118.00
36	1	107	A	C5-C6-N6	-5.83	119.03	123.70
36	1	934	G	N3-C4-C5	-5.83	125.68	128.60
36	1	1210	U	N3-C4-O4	-5.83	115.32	119.40
36	1	1543	G	C5-N7-C8	-5.83	101.39	104.30
36	1	1624	G	C5-N7-C8	-5.83	101.38	104.30
36	1	2884	C	C6-N1-C2	5.83	122.63	120.30
1	6	307	G	N1-C2-N2	-5.83	110.95	116.20
36	5	1158	A	O5'-P-OP2	-5.83	100.45	105.70
36	5	1301	A	N9-C4-C5	5.83	108.13	105.80
36	5	2169	G	O5'-P-OP2	5.83	117.70	110.70
37	7	94	C	C2-N3-C4	-5.83	116.98	119.90
1	2	361	C	C2-N1-C1'	-5.83	112.39	118.80
36	1	1020	G	N1-C6-O6	5.83	123.40	119.90
36	1	1078	U	O5'-P-OP2	-5.83	100.45	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	883	C	OP1-P-OP2	-5.83	110.86	119.60
36	5	1190	A	C6-C5-N7	-5.83	128.22	132.30
36	5	1396	C	OP2-P-O3'	5.83	118.03	105.20
36	5	2205	U	N1-C2-O2	5.83	126.88	122.80
36	5	2223	A	C8-N9-C4	-5.83	103.47	105.80
37	7	121	U	N1-C2-O2	5.83	126.88	122.80
1	2	611	U	C2-N1-C1'	5.83	124.69	117.70
36	1	1045	C	OP2-P-O3'	5.83	118.02	105.20
36	1	1070	U	N1-C2-O2	5.83	126.88	122.80
36	1	1858	A	C6-N1-C2	-5.83	115.10	118.60
62	N6	83	ASP	CB-CG-OD2	5.83	123.55	118.30
1	6	175	G	N3-C4-N9	5.83	129.50	126.00
1	6	1070	C	C2-N1-C1'	-5.83	112.39	118.80
1	6	1378	U	C5-C6-N1	-5.83	119.79	122.70
1	6	1583	A	C6-C5-N7	5.83	136.38	132.30
1	6	1600	A	N9-C1'-C2'	5.83	121.58	114.00
36	5	62	A	C5-C6-N1	-5.83	114.79	117.70
36	5	671	U	OP2-P-O3'	5.83	118.02	105.20
36	5	1480	G	C4-C5-N7	5.83	113.13	110.80
36	5	2426	U	N3-C2-O2	-5.83	118.12	122.20
36	5	2813	A	N1-C6-N6	5.83	122.10	118.60
1	2	49	C	C5-C6-N1	5.83	123.91	121.00
36	1	1449	A	OP1-P-O3'	-5.83	92.38	105.20
36	1	2820	A	C5-N7-C8	-5.83	100.99	103.90
36	1	3086	A	C4-C5-N7	-5.83	107.79	110.70
36	5	430	U	N3-C4-C5	5.83	118.10	114.60
36	5	3049	A	C5-N7-C8	-5.83	100.99	103.90
1	2	720	G	OP1-P-O3'	5.83	118.02	105.20
36	1	39	A	O5'-P-OP1	5.83	117.69	110.70
36	1	86	G	C6-N1-C2	-5.83	121.60	125.10
36	1	306	A	C5-C6-N1	5.83	120.61	117.70
36	1	882	A	N1-C6-N6	-5.83	115.10	118.60
36	1	1594	A	N1-C2-N3	5.83	132.21	129.30
36	1	1849	C	N1-C2-N3	5.83	123.28	119.20
36	1	1939	G	C8-N9-C1'	-5.83	119.43	127.00
1	6	21	U	N3-C4-C5	-5.83	111.11	114.60
1	6	474	A	N1-C6-N6	5.83	122.09	118.60
1	6	744	U	C6-N1-C2	-5.83	117.50	121.00
1	6	827	C	C6-N1-C1'	5.83	127.79	120.80
1	6	1165	G	N1-C2-N3	5.83	127.40	123.90
1	6	1493	A	N3-C4-N9	-5.83	122.74	127.40
1	6	1535	U	N1-C2-O2	5.83	126.88	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1629	G	C6-N1-C2	-5.83	121.60	125.10
36	5	620	U	N1-C2-O2	5.83	126.88	122.80
36	5	782	U	N3-C4-C5	5.83	118.10	114.60
36	5	813	G	C5-C6-N1	-5.83	108.59	111.50
36	5	1310	G	C4-N9-C1'	5.83	134.07	126.50
36	5	2340	U	C6-N1-C2	-5.83	117.50	121.00
36	5	3047	U	N3-C4-C5	-5.83	111.11	114.60
36	5	3140	G	N9-C1'-C2'	-5.83	105.59	112.00
38	8	7	U	N3-C2-O2	5.83	126.28	122.20
1	2	1786	G	C4-C5-N7	-5.82	108.47	110.80
36	1	287	G	N1-C6-O6	5.82	123.39	119.90
36	1	415	G	N1-C2-N3	5.82	127.39	123.90
36	1	2906	C	N1-C2-O2	-5.82	115.41	118.90
1	6	1286	U	N1-C2-N3	5.82	118.39	114.90
36	5	1164	G	N3-C4-N9	-5.82	122.51	126.00
36	5	1379	G	C6-N1-C2	-5.82	121.61	125.10
36	5	1404	G	C5-N7-C8	-5.82	101.39	104.30
36	5	1443	G	C2-N3-C4	-5.82	108.99	111.90
36	5	1514	G	N1-C2-N2	-5.82	110.96	116.20
36	5	2204	C	N3-C4-C5	-5.82	119.57	121.90
36	5	2717	U	N1-C2-N3	5.82	118.39	114.90
36	5	3034	C	N3-C4-N4	5.82	122.08	118.00
36	5	3310	A	N1-C2-N3	5.82	132.21	129.30
37	7	93	C	N3-C4-N4	5.82	122.08	118.00
38	8	136	G	N9-C4-C5	-5.82	103.07	105.40
36	1	2326	A	O5'-P-OP1	-5.82	100.46	105.70
1	6	880	C	C4-C5-C6	5.82	120.31	117.40
36	5	1224	C	N3-C2-O2	-5.82	117.82	121.90
1	2	1044	U	C5-C4-O4	5.82	129.39	125.90
36	1	377	A	N9-C4-C5	-5.82	103.47	105.80
36	1	651	G	N1-C2-N2	-5.82	110.96	116.20
36	1	940	G	N1-C6-O6	-5.82	116.41	119.90
36	1	2418	G	N3-C2-N2	5.82	123.97	119.90
36	1	2625	C	N1-C2-O2	5.82	122.39	118.90
36	1	2704	A	C4-C5-N7	-5.82	107.79	110.70
1	6	308	C	N3-C4-N4	-5.82	113.93	118.00
1	6	1542	G	C8-N9-C1'	-5.82	119.43	127.00
36	5	51	A	C5-C6-N6	-5.82	119.04	123.70
36	5	2351	U	C6-N1-C2	-5.82	117.51	121.00
36	1	283	G	C5-C6-O6	-5.82	125.11	128.60
36	1	2406	C	C6-N1-C2	-5.82	117.97	120.30
1	6	948	G	C5-C6-O6	-5.82	125.11	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1171	A	OP1-P-OP2	-5.82	110.87	119.60
1	6	1537	C	N3-C2-O2	5.82	125.97	121.90
36	5	437	G	C6-C5-N7	-5.82	126.91	130.40
36	5	722	G	C8-N9-C1'	5.82	134.56	127.00
36	5	1050	U	N1-C2-N3	5.82	118.39	114.90
36	5	1584	U	C5-C4-O4	-5.82	122.41	125.90
36	5	1829	G	N1-C6-O6	-5.82	116.41	119.90
73	o7	65	ARG	NE-CZ-NH2	-5.82	117.39	120.30
36	1	302	U	C5-C6-N1	-5.82	119.79	122.70
36	1	860	G	N3-C4-N9	5.82	129.49	126.00
36	1	1458	U	N3-C4-O4	-5.82	115.33	119.40
36	1	1610	G	C6-C5-N7	-5.82	126.91	130.40
36	1	1840	U	C5-C6-N1	-5.82	119.79	122.70
36	1	1905	G	O4'-C1'-N9	5.82	112.85	108.20
36	1	2415	C	C2-N3-C4	-5.82	116.99	119.90
36	1	3192	U	C2-N1-C1'	5.82	124.68	117.70
38	4	39	G	C6-N1-C2	-5.82	121.61	125.10
38	4	41	A	C2-N3-C4	5.82	113.51	110.60
36	5	237	G	N3-C4-C5	-5.82	125.69	128.60
36	5	528	U	C5-C6-N1	5.82	125.61	122.70
36	5	2377	G	C4-N9-C1'	-5.82	118.94	126.50
36	5	2934	A	N3-C4-C5	5.82	130.87	126.80
36	5	2966	G	C2-N3-C4	-5.82	108.99	111.90
36	5	3377	G	C5-N7-C8	-5.82	101.39	104.30
37	7	1	G	C6-C5-N7	-5.82	126.91	130.40
37	7	15	C	C6-N1-C1'	-5.82	113.82	120.80
38	8	99	C	N3-C4-C5	5.82	124.23	121.90
1	2	1463	C	N3-C4-C5	5.82	124.23	121.90
36	1	680	G	C2-N3-C4	-5.82	108.99	111.90
36	1	1377	G	C8-N9-C1'	-5.82	119.44	127.00
36	1	1424	C	N1-C2-O2	-5.82	115.41	118.90
36	1	1733	G	N1-C6-O6	5.82	123.39	119.90
36	1	2134	G	N1-C6-O6	5.82	123.39	119.90
36	1	3071	U	C2-N1-C1'	-5.82	110.72	117.70
1	6	106	U	C6-N1-C2	-5.82	117.51	121.00
1	6	585	A	N9-C4-C5	-5.82	103.47	105.80
36	5	1909	A	C5-C6-N1	5.82	120.61	117.70
36	5	2600	C	C6-N1-C2	-5.82	117.97	120.30
36	1	1103	A	C6-C5-N7	5.81	136.37	132.30
36	1	1292	C	N3-C4-C5	5.81	124.22	121.90
1	6	13	C	N1-C2-O2	5.81	122.39	118.90
1	6	23	G	N3-C2-N2	-5.81	115.83	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	170	U	C5-C6-N1	5.81	125.61	122.70
1	6	1283	U	N3-C4-O4	-5.81	115.33	119.40
1	6	1366	U	N3-C4-O4	5.81	123.47	119.40
1	6	1637	C	N1-C2-N3	-5.81	115.13	119.20
36	5	433	A	N7-C8-N9	5.81	116.71	113.80
36	5	1056	U	O4'-C1'-N1	5.81	112.85	108.20
36	5	3330	A	C5-N7-C8	5.81	106.81	103.90
36	1	35	A	O5'-P-OP2	-5.81	100.47	105.70
36	1	67	A	C5-N7-C8	5.81	106.81	103.90
36	1	399	A	O5'-P-OP1	5.81	117.67	110.70
36	1	878	G	N1-C6-O6	-5.81	116.41	119.90
36	1	1792	C	N1-C2-N3	5.81	123.27	119.20
1	6	273	G	C6-C5-N7	-5.81	126.91	130.40
1	6	621	A	C4-C5-N7	-5.81	107.79	110.70
1	6	897	C	C6-N1-C2	5.81	122.62	120.30
1	6	1592	A	N1-C6-N6	-5.81	115.11	118.60
36	5	1272	C	C5-C6-N1	5.81	123.91	121.00
36	5	1585	C	O5'-P-OP1	-5.81	100.47	105.70
36	5	2174	G	N1-C6-O6	5.81	123.39	119.90
36	5	2270	A	C4-C5-N7	5.81	113.61	110.70
36	5	2309	A	C2-N3-C4	-5.81	107.69	110.60
37	7	107	C	C5-C6-N1	-5.81	118.09	121.00
36	1	1323	G	C4-C5-N7	5.81	113.12	110.80
1	6	177	U	C5-C4-O4	-5.81	122.41	125.90
1	6	626	U	N1-C2-N3	5.81	118.39	114.90
36	5	899	U	N3-C2-O2	-5.81	118.13	122.20
36	5	2626	A	O4'-C1'-N9	-5.81	103.55	108.20
1	2	1000	C	C6-N1-C1'	-5.81	113.83	120.80
1	2	1490	C	N1-C2-O2	5.81	122.39	118.90
36	1	274	G	OP1-P-O3'	5.81	117.98	105.20
36	1	650	C	O5'-P-OP2	5.81	117.67	110.70
36	1	996	A	OP2-P-O3'	5.81	117.98	105.20
36	1	1838	G	N1-C6-O6	5.81	123.39	119.90
36	1	2423	U	C2-N3-C4	5.81	130.49	127.00
36	1	2940	A	C4-C5-N7	-5.81	107.80	110.70
38	4	28	C	N3-C2-O2	5.81	125.97	121.90
1	6	992	A	N3-C4-C5	5.81	130.87	126.80
36	5	512	U	N1-C2-N3	5.81	118.39	114.90
36	5	1205	A	N1-C2-N3	5.81	132.21	129.30
41	14	340	GLY	N-CA-C	-5.81	98.58	113.10
1	2	331	A	N1-C2-N3	5.81	132.20	129.30
36	1	189	G	C8-N9-C4	-5.81	104.08	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1104	G	N3-C2-N2	-5.81	115.83	119.90
36	1	1368	U	C4-C5-C6	5.81	123.19	119.70
36	1	1829	G	OP2-P-O3'	5.81	117.97	105.20
36	1	1898	G	N3-C4-C5	-5.81	125.70	128.60
38	4	56	G	N1-C2-N3	5.81	127.39	123.90
38	4	86	U	C6-N1-C1'	-5.81	113.07	121.20
1	6	586	G	N9-C4-C5	5.81	107.72	105.40
1	6	595	G	C6-C5-N7	-5.81	126.92	130.40
1	6	1598	U	C2-N1-C1'	5.81	124.67	117.70
36	5	85	A	C5-C6-N1	-5.81	114.80	117.70
36	5	500	C	C6-N1-C2	-5.81	117.98	120.30
36	5	502	U	OP1-P-OP2	-5.81	110.89	119.60
36	5	517	G	N1-C2-N3	5.81	127.38	123.90
36	5	688	G	C5-C6-O6	-5.81	125.12	128.60
36	5	928	C	C4-C5-C6	5.81	120.30	117.40
36	5	1612	A	C5-C6-N1	-5.81	114.80	117.70
36	5	2639	G	C5-C6-N1	-5.81	108.60	111.50
36	5	2835	U	N1-C2-O2	-5.81	118.73	122.80
36	5	3287	U	N3-C2-O2	-5.81	118.14	122.20
59	n3	34	LEU	CA-CB-CG	-5.81	101.94	115.30
36	1	938	C	C5-C6-N1	5.81	123.90	121.00
1	6	426	G	N1-C2-N3	5.81	127.38	123.90
1	6	558	U	P-O3'-C3'	5.81	126.67	119.70
36	5	228	U	C2-N1-C1'	5.81	124.67	117.70
36	5	1051	U	OP1-P-OP2	5.81	128.31	119.60
36	5	1601	U	N1-C2-O2	5.81	126.86	122.80
1	2	362	G	N3-C2-N2	-5.80	115.84	119.90
1	2	1490	C	C6-N1-C2	-5.80	117.98	120.30
36	1	1182	A	C4-C5-N7	5.80	113.60	110.70
36	1	2196	C	C2-N1-C1'	-5.80	112.41	118.80
36	1	2835	U	OP2-P-O3'	5.80	117.97	105.20
36	1	3245	A	O5'-P-OP1	5.80	117.67	110.70
37	3	99	G	N3-C2-N2	-5.80	115.84	119.90
38	4	113	U	C5-C6-N1	-5.80	119.80	122.70
1	6	1219	A	N1-C6-N6	5.80	122.08	118.60
1	6	1402	G	N3-C4-C5	-5.80	125.70	128.60
1	6	1472	C	N3-C4-N4	-5.80	113.94	118.00
36	5	185	C	C6-N1-C2	5.80	122.62	120.30
36	5	227	G	N7-C8-N9	-5.80	110.20	113.10
36	5	1481	A	C5-N7-C8	-5.80	101.00	103.90
36	5	2847	A	N9-C4-C5	-5.80	103.48	105.80
36	5	3097	C	N3-C4-C5	-5.80	119.58	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	29	U	N1-C2-O2	-5.80	118.74	122.80
1	6	1206	U	C6-N1-C2	-5.80	117.52	121.00
1	2	1201	G	N7-C8-N9	-5.80	110.20	113.10
36	1	620	U	P-O3'-C3'	5.80	126.66	119.70
36	1	634	C	OP2-P-O3'	5.80	117.97	105.20
36	1	2803	A	N9-C4-C5	5.80	108.12	105.80
36	1	2883	U	N3-C4-C5	-5.80	111.12	114.60
37	3	45	A	N1-C6-N6	-5.80	115.12	118.60
38	4	116	G	C5-C6-N1	5.80	114.40	111.50
1	6	11	A	N7-C8-N9	-5.80	110.90	113.80
1	6	758	U	C2-N1-C1'	-5.80	110.74	117.70
36	5	1185	C	C6-N1-C2	5.80	122.62	120.30
36	5	2312	A	C8-N9-C4	-5.80	103.48	105.80
36	5	2823	G	N3-C2-N2	-5.80	115.84	119.90
38	8	44	A	C4-C5-N7	5.80	113.60	110.70
42	15	131	LEU	CB-CG-CD2	-5.80	101.14	111.00
36	1	93	C	C6-N1-C1'	-5.80	113.84	120.80
36	1	148	G	C4-N9-C1'	5.80	134.04	126.50
36	1	1495	U	C4-C5-C6	5.80	123.18	119.70
36	1	2113	A	C6-C5-N7	5.80	136.36	132.30
36	1	2648	G	OP1-P-O3'	5.80	117.96	105.20
36	5	573	C	C6-N1-C2	5.80	122.62	120.30
36	5	775	A	O5'-P-OP1	-5.80	100.48	105.70
36	5	1383	G	N3-C2-N2	-5.80	115.84	119.90
36	5	1582	C	C6-N1-C2	-5.80	117.98	120.30
36	5	2186	U	C5-C4-O4	5.80	129.38	125.90
36	5	2247	G	N3-C4-N9	5.80	129.48	126.00
36	5	2761	G	N3-C4-C5	-5.80	125.70	128.60
37	7	36	C	N3-C2-O2	5.80	125.96	121.90
38	8	31	G	C8-N9-C4	5.80	108.72	106.40
1	2	39	A	O4'-C1'-N9	5.80	112.84	108.20
1	2	1196	A	O5'-P-OP2	5.80	117.66	110.70
36	5	614	C	C6-N1-C2	5.80	122.62	120.30
36	5	652	G	C5-C6-N1	5.80	114.40	111.50
36	1	209	A	O5'-P-OP2	-5.80	100.48	105.70
36	1	1458	U	N3-C4-C5	5.80	118.08	114.60
36	1	1499	C	N3-C4-C5	-5.80	119.58	121.90
36	1	2175	U	C6-N1-C1'	5.80	129.31	121.20
36	1	2652	U	C2-N1-C1'	-5.80	110.75	117.70
36	1	2943	G	O5'-P-OP1	5.80	117.66	110.70
36	1	3110	C	C6-N1-C2	-5.80	117.98	120.30
37	3	87	G	O4'-C1'-N9	-5.80	103.56	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	392	G	OP2-P-O3'	5.80	117.95	105.20
1	6	1000	C	N3-C4-N4	-5.80	113.94	118.00
36	5	280	U	N1-C2-O2	5.80	126.86	122.80
36	5	798	G	OP1-P-OP2	-5.80	110.91	119.60
36	5	934	G	N1-C6-O6	5.80	123.38	119.90
36	5	1118	C	N1-C2-O2	-5.80	115.42	118.90
36	5	1131	G	OP1-P-OP2	5.80	128.29	119.60
36	5	1173	U	C2-N3-C4	-5.80	123.52	127.00
36	1	897	U	C2-N1-C1'	5.79	124.65	117.70
36	1	1439	U	N1-C2-O2	5.79	126.86	122.80
36	1	1514	G	C4-C5-C6	5.79	122.28	118.80
36	1	2859	U	C4-C5-C6	5.79	123.18	119.70
36	1	3383	G	C8-N9-C1'	5.79	134.53	127.00
1	6	42	G	O5'-P-OP1	-5.79	100.48	105.70
1	6	407	A	N9-C4-C5	-5.79	103.48	105.80
1	6	1662	G	N7-C8-N9	-5.79	110.20	113.10
36	5	86	G	O5'-P-OP1	5.79	117.65	110.70
36	5	238	A	N1-C6-N6	5.79	122.08	118.60
36	5	928	C	OP2-P-O3'	-5.79	92.45	105.20
36	5	2273	G	C8-N9-C1'	5.79	134.53	127.00
36	1	283	G	C5-N7-C8	-5.79	101.40	104.30
36	1	567	G	N3-C4-C5	-5.79	125.70	128.60
36	1	1621	A	C5-N7-C8	5.79	106.80	103.90
36	1	2738	A	C5-C6-N6	-5.79	119.06	123.70
36	1	3109	G	N3-C4-N9	5.79	129.48	126.00
1	6	96	G	N1-C6-O6	5.79	123.38	119.90
1	6	1769	U	C4-C5-C6	5.79	123.18	119.70
9	s7	131	PHE	C-N-CD	5.79	140.57	128.40
36	5	1588	A	C2-N3-C4	-5.79	107.70	110.60
36	5	1764	U	O4'-C1'-N1	5.79	112.83	108.20
43	l6	46	ARG	NE-CZ-NH2	-5.79	117.40	120.30
53	m7	131	ARG	NE-CZ-NH2	-5.79	117.40	120.30
36	1	907	G	C5-N7-C8	5.79	107.20	104.30
36	1	1549	U	O5'-P-OP2	-5.79	100.49	105.70
36	1	1927	G	C4-C5-N7	5.79	113.12	110.80
36	1	2613	U	N1-C2-O2	-5.79	118.75	122.80
36	1	2649	A	C5-C6-N6	-5.79	119.07	123.70
1	6	264	G	N1-C6-O6	5.79	123.38	119.90
1	6	1002	G	C4-C5-C6	-5.79	115.33	118.80
1	6	1058	U	OP1-P-O3'	5.79	117.94	105.20
1	6	1186	U	O5'-P-OP2	-5.79	100.49	105.70
36	5	64	G	C5-N7-C8	-5.79	101.41	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	286	U	N3-C4-O4	5.79	123.45	119.40
36	5	741	U	N3-C4-C5	-5.79	111.12	114.60
36	5	1323	G	N3-C2-N2	-5.79	115.85	119.90
36	5	2399	A	O4'-C1'-N9	5.79	112.83	108.20
36	5	2404	A	N7-C8-N9	5.79	116.70	113.80
36	5	2610	G	N9-C4-C5	5.79	107.72	105.40
36	5	2662	G	C4-C5-N7	-5.79	108.48	110.80
36	5	2952	G	N3-C4-N9	5.79	129.47	126.00
1	2	1345	A	C5-C6-N1	-5.79	114.81	117.70
36	1	692	A	OP1-P-O3'	5.79	117.94	105.20
36	1	1319	G	C5-C6-N1	5.79	114.39	111.50
36	1	2614	G	C4-N9-C1'	5.79	134.03	126.50
36	1	2823	G	C5-C6-O6	5.79	132.07	128.60
38	4	73	U	N3-C4-C5	5.79	118.07	114.60
1	6	75	U	C6-N1-C1'	-5.79	113.09	121.20
1	6	996	U	C2-N3-C4	5.79	130.47	127.00
36	5	1046	A	C4-C5-N7	-5.79	107.81	110.70
36	5	2696	A	C8-N9-C4	-5.79	103.48	105.80
37	7	15	C	N3-C4-N4	5.79	122.05	118.00
46	19	168	ARG	NE-CZ-NH1	-5.79	117.41	120.30
47	m0	17	TYR	CA-CB-CG	5.79	124.40	113.40
1	2	1322	A	N1-C6-N6	-5.79	115.13	118.60
36	1	396	A	OP2-P-O3'	5.79	117.93	105.20
36	1	1101	G	N3-C4-N9	-5.79	122.53	126.00
36	1	2875	U	P-O3'-C3'	-5.79	112.75	119.70
36	1	2973	G	P-O3'-C3'	-5.79	112.75	119.70
36	1	3139	A	N7-C8-N9	5.79	116.69	113.80
1	6	104	A	C6-C5-N7	-5.79	128.25	132.30
1	6	1375	A	N3-C4-C5	5.79	130.85	126.80
1	6	1469	A	N1-C6-N6	-5.79	115.13	118.60
36	5	54	C	OP1-P-OP2	-5.79	110.92	119.60
36	5	984	G	N3-C2-N2	-5.79	115.85	119.90
36	5	1516	C	C5-C4-N4	-5.79	116.15	120.20
36	5	1850	A	N7-C8-N9	-5.79	110.91	113.80
36	5	2161	G	C2-N3-C4	5.79	114.79	111.90
36	5	2296	A	OP1-P-O3'	5.79	117.93	105.20
36	5	3014	U	C5-C6-N1	-5.79	119.81	122.70
1	2	1200	G	N3-C4-N9	5.79	129.47	126.00
36	1	535	G	N3-C4-C5	-5.79	125.71	128.60
36	5	601	U	C2-N1-C1'	5.79	124.64	117.70
36	5	684	G	N3-C4-C5	5.79	131.49	128.60
36	5	1192	C	N1-C1'-C2'	-5.79	105.63	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	317	C	N3-C4-C5	-5.79	119.59	121.90
1	2	586	G	N1-C6-O6	5.79	123.37	119.90
36	1	276	U	N3-C4-C5	-5.79	111.13	114.60
36	1	290	G	OP2-P-O3'	5.79	117.93	105.20
36	1	1116	G	N1-C2-N3	5.79	127.37	123.90
36	1	1379	G	C5-C6-N1	-5.79	108.61	111.50
36	1	1413	G	C5-C6-O6	-5.79	125.13	128.60
36	1	1851	G	N1-C2-N2	5.79	121.41	116.20
36	1	2127	U	N3-C2-O2	5.79	126.25	122.20
36	1	2166	A	C5-C6-N1	5.79	120.59	117.70
36	1	2751	G	N3-C4-N9	-5.79	122.53	126.00
1	6	23	G	N9-C4-C5	5.79	107.71	105.40
1	6	474	A	C4-N9-C1'	-5.79	115.89	126.30
1	6	600	U	OP2-P-O3'	5.79	117.93	105.20
1	6	1449	U	C2-N3-C4	5.79	130.47	127.00
1	6	1676	U	C6-N1-C2	5.79	124.47	121.00
1	6	1768	G	C8-N9-C1'	5.79	134.52	127.00
36	5	1293	U	N3-C2-O2	5.79	126.25	122.20
36	5	1301	A	N1-C2-N3	5.79	132.19	129.30
36	5	2399	A	OP2-P-O3'	5.79	117.93	105.20
1	2	1788	G	N1-C6-O6	-5.78	116.43	119.90
36	1	383	G	N1-C2-N2	-5.78	110.99	116.20
36	1	676	G	N7-C8-N9	5.78	115.99	113.10
36	1	933	A	C2-N3-C4	5.78	113.49	110.60
36	1	1520	G	C5-C6-O6	-5.78	125.13	128.60
36	1	1769	G	N3-C2-N2	-5.78	115.85	119.90
36	1	2371	G	OP2-P-O3'	5.78	117.92	105.20
38	4	73	U	N3-C2-O2	-5.78	118.15	122.20
1	6	375	U	C2-N1-C1'	-5.78	110.76	117.70
1	6	606	A	C5-C6-N6	-5.78	119.07	123.70
1	6	1033	C	N3-C2-O2	-5.78	117.85	121.90
36	5	1455	U	OP2-P-O3'	5.78	117.92	105.20
36	5	2834	G	C8-N9-C4	5.78	108.71	106.40
36	5	3212	C	C5-C6-N1	-5.78	118.11	121.00
1	2	608	U	N3-C2-O2	-5.78	118.15	122.20
36	1	211	A	N3-C4-N9	-5.78	122.77	127.40
36	1	1156	C	C4-C5-C6	5.78	120.29	117.40
36	1	1929	G	C5-C6-N1	5.78	114.39	111.50
36	1	3276	G	C8-N9-C4	-5.78	104.09	106.40
38	4	55	U	O5'-P-OP1	-5.78	100.50	105.70
1	6	377	G	N9-C4-C5	5.78	107.71	105.40
36	5	928	C	O4'-C1'-N1	5.78	112.83	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	932	U	OP1-P-OP2	-5.78	110.93	119.60
36	5	1288	U	N3-C2-O2	-5.78	118.15	122.20
36	5	1831	U	N3-C4-O4	5.78	123.45	119.40
1	2	1284	C	C6-N1-C1'	5.78	127.74	120.80
1	2	1654	G	O5'-P-OP2	-5.78	100.50	105.70
36	1	649	A	C5-N7-C8	5.78	106.79	103.90
36	1	1650	G	C8-N9-C4	5.78	108.71	106.40
36	1	2760	C	N3-C2-O2	5.78	125.95	121.90
36	1	2987	A	N1-C2-N3	-5.78	126.41	129.30
1	6	208	U	C5-C6-N1	5.78	125.59	122.70
36	5	1003	A	O5'-P-OP1	-5.78	100.50	105.70
36	5	1041	U	O5'-P-OP1	5.78	117.64	110.70
36	5	1478	C	C5-C6-N1	5.78	123.89	121.00
36	5	2873	U	C5-C4-O4	5.78	129.37	125.90
36	5	3016	A	N3-C4-N9	-5.78	122.78	127.40
36	5	3035	A	C2-N3-C4	-5.78	107.71	110.60
40	l3	21	ARG	NE-CZ-NH2	-5.78	117.41	120.30
36	1	91	G	N3-C4-N9	5.78	129.47	126.00
36	1	810	A	C8-N9-C4	-5.78	103.49	105.80
62	N6	27	ARG	NE-CZ-NH1	-5.78	117.41	120.30
1	6	1085	G	C8-N9-C1'	-5.78	119.49	127.00
36	5	1420	C	C5-C4-N4	5.78	124.25	120.20
36	5	2612	U	C2-N3-C4	-5.78	123.53	127.00
36	5	2621	G	C4-C5-C6	5.78	122.27	118.80
1	2	562	G	N1-C2-N3	5.78	127.37	123.90
1	2	1412	G	N3-C4-C5	5.78	131.49	128.60
1	2	1471	A	O5'-P-OP2	5.78	117.63	110.70
36	1	59	G	C4-C5-N7	5.78	113.11	110.80
36	1	812	G	C4-C5-C6	5.78	122.27	118.80
36	1	1174	G	N3-C4-N9	5.78	129.47	126.00
36	1	1338	C	O5'-P-OP2	-5.78	100.50	105.70
36	1	1762	C	O4'-C1'-N1	5.78	112.82	108.20
36	1	2182	A	C4-C5-N7	5.78	113.59	110.70
36	1	2191	U	N3-C4-C5	-5.78	111.13	114.60
36	1	3038	U	N3-C4-C5	-5.78	111.13	114.60
38	4	34	U	C2-N1-C1'	-5.78	110.77	117.70
78	Q2	88	CYS	CA-CB-SG	-5.78	103.60	114.00
36	5	50	U	OP1-P-O3'	5.78	117.91	105.20
36	5	820	A	O5'-P-OP2	-5.78	100.50	105.70
36	5	1369	A	N1-C6-N6	5.78	122.07	118.60
36	5	1482	A	N9-C4-C5	-5.78	103.49	105.80
36	5	1595	U	C5-C4-O4	-5.78	122.43	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	176	C	C5-C6-N1	5.78	123.89	121.00
1	2	553	G	N1-C6-O6	5.78	123.37	119.90
1	2	610	G	N3-C4-C5	-5.78	125.71	128.60
36	1	1379	G	C4-N9-C1'	5.78	134.01	126.50
36	1	1690	C	N1-C2-O2	5.78	122.37	118.90
36	1	2655	U	C5-C6-N1	5.78	125.59	122.70
36	1	2916	U	N3-C4-C5	5.78	118.07	114.60
52	M6	101	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	6	1301	U	N3-C4-O4	5.78	123.44	119.40
1	6	1581	C	N3-C2-O2	-5.78	117.86	121.90
1	6	1609	U	N1-C2-O2	-5.78	118.76	122.80
1	6	1698	G	C5-C6-O6	5.78	132.06	128.60
36	5	96	G	N1-C6-O6	5.78	123.36	119.90
36	5	803	C	N3-C4-N4	5.78	122.04	118.00
36	5	2858	U	N3-C4-O4	5.78	123.44	119.40
36	5	2947	G	OP2-P-O3'	-5.78	92.49	105.20
36	5	3043	C	OP2-P-O3'	5.78	117.91	105.20
36	1	335	G	C8-N9-C1'	5.77	134.51	127.00
36	1	2339	C	C5-C6-N1	5.77	123.89	121.00
36	1	2354	C	N1-C2-O2	-5.77	115.44	118.90
36	1	2685	C	N3-C4-C5	-5.77	119.59	121.90
36	1	3330	A	N9-C4-C5	5.77	108.11	105.80
1	6	457	G	C4-C5-N7	5.77	113.11	110.80
36	5	591	G	C6-C5-N7	-5.77	126.94	130.40
36	5	629	U	N3-C4-C5	-5.77	111.14	114.60
36	5	966	U	C5-C4-O4	-5.77	122.44	125.90
36	5	2852	C	C5-C6-N1	-5.77	118.11	121.00
1	2	322	G	O4'-C1'-N9	-5.77	103.58	108.20
36	1	1442	U	OP1-P-OP2	-5.77	110.94	119.60
36	1	2391	G	N7-C8-N9	-5.77	110.21	113.10
36	1	2948	C	N3-C4-C5	-5.77	119.59	121.90
36	1	3150	A	N3-C4-C5	5.77	130.84	126.80
1	6	458	G	C4-C5-N7	-5.77	108.49	110.80
1	6	1093	A	C8-N9-C4	-5.77	103.49	105.80
36	5	1116	G	N1-C6-O6	5.77	123.36	119.90
36	5	1490	A	C8-N9-C4	-5.77	103.49	105.80
36	5	2286	U	N3-C4-O4	-5.77	115.36	119.40
36	5	3030	G	N1-C2-N3	-5.77	120.44	123.90
36	5	3080	G	C5-N7-C8	-5.77	101.41	104.30
36	1	636	C	N1-C2-N3	5.77	123.24	119.20
36	1	1207	G	O5'-P-OP1	-5.77	100.51	105.70
36	1	2617	U	C2-N3-C4	-5.77	123.54	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3152	U	C2-N1-C1'	-5.77	110.77	117.70
1	6	1604	U	C5-C6-N1	5.77	125.59	122.70
36	5	576	C	OP2-P-O3'	5.77	117.90	105.20
1	2	597	G	C4-C5-N7	5.77	113.11	110.80
1	2	1663	G	O5'-P-OP2	-5.77	100.51	105.70
36	1	894	G	C8-N9-C4	-5.77	104.09	106.40
36	1	1874	A	C8-N9-C4	-5.77	103.49	105.80
36	1	2182	A	C5-N7-C8	-5.77	101.02	103.90
36	1	2386	A	N1-C2-N3	5.77	132.19	129.30
36	1	2723	U	C5-C6-N1	-5.77	119.82	122.70
36	1	3206	C	N3-C2-O2	5.77	125.94	121.90
36	1	3363	U	N1-C2-O2	5.77	126.84	122.80
1	6	464	A	O5'-P-OP1	-5.77	100.51	105.70
36	5	1477	A	C5-C6-N1	5.77	120.58	117.70
36	5	3016	A	C5-N7-C8	-5.77	101.02	103.90
36	5	3051	U	C5-C6-N1	-5.77	119.81	122.70
36	5	3380	U	C6-N1-C1'	5.77	129.28	121.20
1	2	964	U	N1-C2-O2	5.77	126.84	122.80
1	2	1128	C	C5-C6-N1	-5.77	118.12	121.00
36	1	76	G	C5-C6-N1	-5.77	108.62	111.50
36	1	512	U	N1-C2-O2	-5.77	118.76	122.80
36	1	637	C	C2-N1-C1'	5.77	125.14	118.80
36	1	1192	C	N1-C2-N3	-5.77	115.16	119.20
36	1	1810	A	C2-N3-C4	-5.77	107.72	110.60
36	1	2131	A	N1-C6-N6	-5.77	115.14	118.60
52	M6	84	LEU	CB-CG-CD2	-5.77	101.20	111.00
1	6	25	C	N3-C4-C5	5.77	124.21	121.90
1	6	247	A	C6-C5-N7	-5.77	128.26	132.30
1	6	811	A	C4-N9-C1'	5.77	136.68	126.30
1	6	1541	G	O5'-P-OP2	5.77	117.62	110.70
36	5	423	A	OP1-P-OP2	-5.77	110.95	119.60
36	5	700	C	N1-C2-O2	5.77	122.36	118.90
36	5	1307	G	C4-C5-C6	5.77	122.26	118.80
36	5	2190	U	C6-N1-C2	-5.77	117.54	121.00
36	5	2431	C	N1-C2-O2	5.77	122.36	118.90
36	5	2852	C	C6-N1-C1'	-5.77	113.88	120.80
36	5	3350	C	N3-C4-C5	-5.77	119.59	121.90
37	7	56	A	C4-C5-N7	5.77	113.58	110.70
62	n6	87	LYS	CD-CE-NZ	5.77	124.97	111.70
36	1	193	C	N1-C2-O2	-5.77	115.44	118.90
36	1	939	U	N3-C2-O2	5.77	126.24	122.20
36	1	1629	U	O5'-P-OP2	-5.77	100.51	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1824	U	N3-C2-O2	-5.77	118.16	122.20
36	1	2794	G	C5-C6-N1	5.77	114.38	111.50
1	6	1326	A	N1-C6-N6	5.77	122.06	118.60
36	5	682	U	C6-N1-C1'	5.77	129.27	121.20
36	5	1886	A	O5'-P-OP2	-5.77	100.51	105.70
36	5	2782	U	N1-C2-O2	-5.77	118.76	122.80
1	2	1389	C	N3-C2-O2	-5.76	117.86	121.90
36	1	803	C	N1-C2-O2	5.76	122.36	118.90
36	1	1142	G	OP1-P-OP2	5.76	128.25	119.60
36	1	1331	U	C2-N3-C4	-5.76	123.54	127.00
36	1	1903	U	OP1-P-O3'	5.76	117.88	105.20
36	1	2748	A	N3-C4-C5	5.76	130.84	126.80
36	1	2816	G	C6-C5-N7	-5.76	126.94	130.40
36	1	3015	G	C8-N9-C4	5.76	108.71	106.40
36	1	3167	A	N1-C6-N6	5.76	122.06	118.60
1	6	354	C	C5-C6-N1	5.76	123.88	121.00
1	6	1571	C	N1-C2-O2	-5.76	115.44	118.90
1	6	1584	G	N9-C4-C5	-5.76	103.09	105.40
36	5	232	G	C8-N9-C1'	5.76	134.49	127.00
36	5	864	G	N3-C4-C5	-5.76	125.72	128.60
36	5	1578	C	C6-N1-C1'	-5.76	113.88	120.80
36	5	3022	G	OP1-P-O3'	-5.76	92.52	105.20
36	5	3260	G	N3-C4-C5	-5.76	125.72	128.60
36	1	1419	A	C4-C5-C6	5.76	119.88	117.00
36	1	2659	G	N9-C4-C5	-5.76	103.09	105.40
36	1	2917	G	C4-C5-N7	-5.76	108.50	110.80
36	1	2988	C	N1-C2-O2	5.76	122.36	118.90
1	6	932	U	N3-C2-O2	-5.76	118.17	122.20
36	5	2407	C	N3-C4-N4	5.76	122.03	118.00
36	5	2838	A	N1-C2-N3	5.76	132.18	129.30
36	5	2926	A	C6-C5-N7	-5.76	128.27	132.30
36	5	2986	U	C6-N1-C2	-5.76	117.54	121.00
36	5	3014	U	O5'-P-OP1	5.76	117.61	110.70
36	1	325	A	C6-N1-C2	-5.76	115.14	118.60
36	1	423	A	C4-C5-C6	5.76	119.88	117.00
36	1	1103	A	C5-N7-C8	5.76	106.78	103.90
36	1	1401	A	C5-C6-N6	-5.76	119.09	123.70
36	1	1507	G	N1-C2-N2	-5.76	111.01	116.20
36	1	1906	G	C4-C5-N7	5.76	113.11	110.80
36	1	3065	G	C8-N9-C4	-5.76	104.09	106.40
36	1	3230	G	C8-N9-C1'	5.76	134.49	127.00
1	6	384	G	N7-C8-N9	5.76	115.98	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	432	G	N3-C2-N2	5.76	123.93	119.90
1	6	1122	G	C5-C6-O6	-5.76	125.14	128.60
1	6	1124	A	N3-C4-C5	5.76	130.83	126.80
36	5	18	G	C8-N9-C4	-5.76	104.09	106.40
36	5	64	G	C4-C5-N7	5.76	113.10	110.80
36	5	210	U	N3-C4-C5	5.76	118.06	114.60
36	5	344	A	C5-N7-C8	-5.76	101.02	103.90
36	5	1902	G	O4'-C1'-N9	-5.76	103.59	108.20
36	5	3174	A	C4-C5-N7	5.76	113.58	110.70
36	5	3325	G	N1-C6-O6	-5.76	116.44	119.90
1	2	116	U	N1-C2-N3	5.76	118.36	114.90
36	1	867	G	C6-C5-N7	-5.76	126.94	130.40
36	1	929	A	C5-N7-C8	-5.76	101.02	103.90
36	1	1891	A	C2-N3-C4	-5.76	107.72	110.60
36	1	2730	G	C2-N3-C4	-5.76	109.02	111.90
36	1	3008	A	O5'-P-OP1	5.76	117.61	110.70
1	6	289	U	N1-C2-N3	5.76	118.36	114.90
1	6	1104	U	O5'-P-OP2	-5.76	100.52	105.70
1	6	1408	G	N1-C2-N3	5.76	127.36	123.90
1	6	1655	A	C6-C5-N7	-5.76	128.27	132.30
36	5	397	A	C4-C5-N7	-5.76	107.82	110.70
36	5	1475	A	C6-N1-C2	-5.76	115.14	118.60
36	5	1666	G	C8-N9-C4	5.76	108.70	106.40
36	5	1906	G	N3-C4-N9	5.76	129.46	126.00
38	8	90	U	N1-C2-O2	5.76	126.83	122.80
36	1	710	A	C5-C6-N6	-5.76	119.09	123.70
36	1	3293	U	N3-C2-O2	5.76	126.23	122.20
1	6	890	C	N3-C2-O2	-5.76	117.87	121.90
36	5	1853	U	N1-C2-O2	-5.76	118.77	122.80
36	5	2690	G	N1-C2-N2	5.76	121.38	116.20
36	5	3279	A	N9-C1'-C2'	-5.76	105.67	112.00
36	5	3289	G	C8-N9-C4	-5.76	104.10	106.40
1	2	1200	G	N3-C2-N2	-5.76	115.87	119.90
1	2	1614	A	N1-C6-N6	5.76	122.05	118.60
36	1	792	G	O5'-P-OP1	-5.76	100.52	105.70
36	1	1441	G	C5-C6-N1	5.76	114.38	111.50
36	1	2308	C	N1-C2-O2	-5.76	115.45	118.90
36	1	3191	G	C5-C6-N1	-5.76	108.62	111.50
1	6	415	C	C6-N1-C1'	5.76	127.71	120.80
36	5	866	A	N9-C4-C5	-5.76	103.50	105.80
36	5	1293	U	C2-N1-C1'	-5.76	110.79	117.70
36	5	1615	C	N1-C2-N3	5.76	123.23	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2678	A	N1-C2-N3	5.76	132.18	129.30
36	5	2979	U	N3-C4-O4	-5.76	115.37	119.40
37	7	106	U	C2-N3-C4	-5.76	123.55	127.00
59	n3	88	ARG	NE-CZ-NH1	5.76	123.18	120.30
36	1	1548	C	C5-C6-N1	5.75	123.88	121.00
36	1	2321	A	N3-C4-N9	-5.75	122.80	127.40
36	1	3013	U	O5'-P-OP1	5.75	117.61	110.70
36	1	744	A	C8-N9-C4	5.75	108.10	105.80
36	1	1661	G	N3-C4-N9	5.75	129.45	126.00
36	1	2119	A	C4-C5-N7	5.75	113.58	110.70
36	1	2173	U	N3-C4-C5	-5.75	111.15	114.60
36	1	2700	G	N3-C4-N9	5.75	129.45	126.00
36	1	2745	G	N3-C4-N9	5.75	129.45	126.00
1	6	558	U	C5-C6-N1	5.75	125.58	122.70
1	6	1139	A	N1-C2-N3	-5.75	126.42	129.30
1	6	1466	G	N1-C6-O6	5.75	123.35	119.90
36	5	576	C	C2-N1-C1'	5.75	125.13	118.80
36	5	694	C	N3-C4-N4	-5.75	113.97	118.00
36	5	821	U	N1-C2-N3	5.75	118.35	114.90
36	5	1603	A	C4-N9-C1'	5.75	136.66	126.30
36	5	3023	U	N3-C2-O2	5.75	126.23	122.20
36	5	3086	A	C5-C6-N1	-5.75	114.82	117.70
1	2	389	G	N7-C8-N9	5.75	115.97	113.10
36	1	423	A	N7-C8-N9	5.75	116.68	113.80
36	1	870	G	N7-C8-N9	-5.75	110.22	113.10
36	1	1131	G	C2-N3-C4	5.75	114.78	111.90
36	1	1554	U	C2-N1-C1'	5.75	124.60	117.70
36	1	2550	U	C5-C4-O4	5.75	129.35	125.90
36	1	2706	G	N3-C4-N9	5.75	129.45	126.00
36	1	3010	U	N1-C2-O2	-5.75	118.77	122.80
36	1	3118	C	C2-N1-C1'	5.75	125.13	118.80
37	3	117	A	C8-N9-C4	5.75	108.10	105.80
1	6	303	U	OP2-P-O3'	5.75	117.85	105.20
1	6	566	C	C6-N1-C2	5.75	122.60	120.30
1	6	1354	G	C5-N7-C8	-5.75	101.42	104.30
1	6	1564	U	C5-C6-N1	-5.75	119.82	122.70
1	6	1654	G	O5'-P-OP1	5.75	117.60	110.70
1	6	1760	G	C5-C6-N1	5.75	114.38	111.50
36	5	95	A	C5-N7-C8	-5.75	101.02	103.90
36	5	552	G	OP1-P-O3'	5.75	117.85	105.20
36	5	1370	G	N3-C4-N9	-5.75	122.55	126.00
36	5	1428	A	C2-N3-C4	-5.75	107.72	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1637	A	C6-N1-C2	-5.75	115.15	118.60
36	5	3166	C	N3-C4-C5	-5.75	119.60	121.90
37	7	54	U	C6-N1-C1'	5.75	129.25	121.20
37	3	81	U	N3-C4-C5	5.75	118.05	114.60
36	5	581	U	C2-N3-C4	5.75	130.45	127.00
36	5	2801	A	N7-C8-N9	5.75	116.67	113.80
36	1	229	G	N1-C6-O6	-5.75	116.45	119.90
36	1	317	A	C6-N1-C2	-5.75	115.15	118.60
36	1	628	A	N9-C4-C5	5.75	108.10	105.80
36	1	1425	U	O5'-P-OP1	-5.75	100.53	105.70
36	1	2144	A	OP1-P-O3'	5.75	117.85	105.20
36	1	2376	G	N9-C4-C5	5.75	107.70	105.40
36	1	2886	U	N3-C4-O4	5.75	123.42	119.40
36	1	3246	G	O5'-P-OP2	-5.75	100.53	105.70
36	1	3266	G	N3-C4-C5	-5.75	125.73	128.60
1	6	1743	U	OP1-P-OP2	5.75	128.22	119.60
36	5	68	C	C4-C5-C6	-5.75	114.53	117.40
36	5	154	U	O4'-C1'-N1	5.75	112.80	108.20
36	5	2834	G	N7-C8-N9	-5.75	110.23	113.10
36	5	3332	U	C5-C4-O4	5.75	129.35	125.90
1	2	401	A	N9-C4-C5	-5.75	103.50	105.80
36	1	39	A	C6-N1-C2	-5.75	115.15	118.60
36	1	936	A	O4'-C1'-N9	5.75	112.80	108.20
36	1	2631	U	OP2-P-O3'	5.75	117.84	105.20
36	5	952	A	N3-C4-C5	5.75	130.82	126.80
36	5	2209	U	OP1-P-O3'	5.75	117.84	105.20
36	5	2898	G	C5-N7-C8	5.75	107.17	104.30
37	7	73	C	O4'-C1'-N1	5.75	112.80	108.20
36	1	2298	U	N1-C2-O2	-5.75	118.78	122.80
36	1	2648	G	N3-C4-N9	5.75	129.45	126.00
36	1	3266	G	C4-N9-C1'	5.75	133.97	126.50
1	6	991	G	O5'-P-OP1	5.75	117.59	110.70
36	5	896	A	O5'-P-OP2	-5.75	100.53	105.70
36	5	3107	U	N3-C4-O4	5.75	123.42	119.40
37	7	12	U	OP1-P-OP2	-5.75	110.98	119.60
36	1	95	A	N3-C4-N9	-5.74	122.81	127.40
36	1	807	A	O4'-C1'-N9	5.74	112.79	108.20
36	1	2185	G	C4-C5-N7	5.74	113.10	110.80
36	1	2643	A	O5'-P-OP1	-5.74	100.53	105.70
1	6	576	G	N7-C8-N9	5.74	115.97	113.10
1	6	880	C	C2-N1-C1'	5.74	125.12	118.80
36	5	23	A	C5-C6-N6	-5.74	119.11	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	554	A	C8-N9-C4	-5.74	103.50	105.80
36	5	801	A	C2-N3-C4	-5.74	107.73	110.60
36	5	946	U	N1-C2-N3	5.74	118.35	114.90
36	5	1164	G	C4-N9-C1'	-5.74	119.03	126.50
36	5	1482	A	C6-N1-C2	-5.74	115.15	118.60
36	5	1861	G	C5-C6-O6	5.74	132.05	128.60
36	5	1863	G	C8-N9-C4	5.74	108.70	106.40
36	5	3184	A	N3-C4-C5	5.74	130.82	126.80
36	5	3200	G	N1-C2-N3	5.74	127.35	123.90
37	7	13	A	N7-C8-N9	5.74	116.67	113.80
37	7	37	G	C4-C5-N7	5.74	113.10	110.80
36	1	1137	C	C6-N1-C1'	-5.74	113.91	120.80
1	6	516	G	C5-N7-C8	-5.74	101.43	104.30
36	5	1690	C	N3-C2-O2	5.74	125.92	121.90
1	2	576	G	C5-N7-C8	-5.74	101.43	104.30
1	2	1142	A	C5-C6-N6	5.74	128.29	123.70
36	1	98	G	O5'-P-OP2	-5.74	100.53	105.70
36	1	2266	U	N3-C4-C5	5.74	118.04	114.60
1	6	1494	C	N1-C2-N3	5.74	123.22	119.20
36	5	1204	A	N1-C6-N6	5.74	122.05	118.60
36	5	2187	G	O5'-P-OP1	-5.74	100.53	105.70
36	5	2363	A	C5-C6-N1	-5.74	114.83	117.70
36	5	2741	C	C2-N1-C1'	5.74	125.11	118.80
37	7	59	U	O5'-P-OP1	5.74	117.59	110.70
36	1	2199	G	C8-N9-C1'	-5.74	119.54	127.00
36	1	2339	C	N3-C2-O2	-5.74	117.88	121.90
36	1	2762	A	C2-N3-C4	5.74	113.47	110.60
36	1	2879	C	N3-C4-C5	-5.74	119.60	121.90
1	6	30	G	C2-N3-C4	-5.74	109.03	111.90
1	6	1644	C	N3-C4-N4	-5.74	113.98	118.00
36	5	42	C	C6-N1-C1'	-5.74	113.91	120.80
36	5	962	A	O5'-P-OP1	-5.74	100.54	105.70
36	5	1197	A	C4-C5-C6	5.74	119.87	117.00
36	5	1873	U	C5-C6-N1	5.74	125.57	122.70
36	5	2122	G	C2-N3-C4	-5.74	109.03	111.90
36	5	2714	G	C8-N9-C4	-5.74	104.11	106.40
36	5	2995	A	N7-C8-N9	-5.74	110.93	113.80
37	7	83	U	N1-C2-N3	5.74	118.34	114.90
37	7	99	G	N3-C4-N9	-5.74	122.56	126.00
38	8	107	G	N7-C8-N9	5.74	115.97	113.10
36	1	30	G	C5-N7-C8	-5.74	101.43	104.30
36	1	909	G	C5-C6-O6	-5.74	125.16	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1469	C	C2-N3-C4	-5.74	117.03	119.90
36	1	2765	C	N1-C2-N3	5.74	123.22	119.20
1	6	1513	G	C6-C5-N7	-5.74	126.96	130.40
36	5	335	G	N3-C2-N2	-5.74	115.88	119.90
36	5	350	C	C5-C4-N4	-5.74	116.18	120.20
36	5	808	A	C8-N9-C4	-5.74	103.50	105.80
36	5	910	G	N3-C4-N9	-5.74	122.56	126.00
1	2	1751	C	N3-C2-O2	-5.74	117.89	121.90
36	1	1433	A	N7-C8-N9	5.74	116.67	113.80
36	1	2772	C	C5-C6-N1	5.74	123.87	121.00
36	1	2895	G	N1-C2-N3	5.74	127.34	123.90
36	1	3390	G	C4-C5-C6	5.74	122.24	118.80
43	L6	174	LEU	CB-CG-CD2	-5.74	101.25	111.00
1	6	1219	A	N9-C4-C5	-5.74	103.51	105.80
36	5	512	U	N3-C2-O2	-5.74	118.19	122.20
36	5	1495	U	OP1-P-O3'	5.74	117.82	105.20
36	5	1653	G	C4-N9-C1'	-5.74	119.04	126.50
36	5	1769	G	N3-C2-N2	-5.74	115.89	119.90
36	5	2776	C	C4-C5-C6	-5.74	114.53	117.40
36	5	2825	C	N3-C2-O2	5.74	125.92	121.90
36	1	1400	G	N1-C6-O6	5.73	123.34	119.90
36	1	1446	A	N1-C6-N6	-5.73	115.16	118.60
36	1	1522	U	O4'-C1'-N1	5.73	112.79	108.20
64	N8	42	ARG	NE-CZ-NH1	5.73	123.17	120.30
1	6	385	A	C4-C5-N7	-5.73	107.83	110.70
1	6	619	A	OP2-P-O3'	5.73	117.81	105.20
1	6	1035	G	C4-N9-C1'	-5.73	119.05	126.50
36	5	1150	A	O5'-P-OP2	-5.73	100.54	105.70
36	5	1487	G	N1-C6-O6	5.73	123.34	119.90
1	2	1127	G	C5-C6-O6	5.73	132.04	128.60
1	2	1647	U	C6-N1-C2	-5.73	117.56	121.00
36	1	517	G	C5-C6-O6	5.73	132.04	128.60
36	1	1305	U	C4-C5-C6	5.73	123.14	119.70
36	1	2240	G	C2-N3-C4	-5.73	109.03	111.90
36	1	2372	A	C5-N7-C8	5.73	106.77	103.90
36	1	2381	G	C4-C5-N7	5.73	113.09	110.80
36	1	2389	C	N1-C2-N3	5.73	123.21	119.20
36	1	2516	U	N3-C4-O4	-5.73	115.39	119.40
36	1	2872	A	O5'-P-OP1	-5.73	100.54	105.70
38	4	109	A	OP2-P-O3'	5.73	117.81	105.20
1	6	33	U	C2-N1-C1'	5.73	124.58	117.70
36	5	423	A	C8-N9-C1'	-5.73	117.38	127.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	782	U	C6-N1-C2	5.73	124.44	121.00
36	5	886	C	N1-C2-N3	-5.73	115.19	119.20
36	5	2195	C	C2-N3-C4	-5.73	117.03	119.90
36	5	2288	G	N3-C4-C5	-5.73	125.73	128.60
36	5	2596	U	N1-C2-O2	5.73	126.81	122.80
36	5	3309	G	C5-C6-N1	5.73	114.37	111.50
39	12	248	GLY	N-CA-C	5.73	127.43	113.10
1	2	1733	C	N3-C4-C5	-5.73	119.61	121.90
36	1	851	C	C6-N1-C2	-5.73	118.01	120.30
36	1	921	A	OP2-P-O3'	5.73	117.81	105.20
36	1	1301	A	C4-C5-N7	5.73	113.57	110.70
36	1	1407	A	N1-C6-N6	-5.73	115.16	118.60
36	1	1525	G	C6-C5-N7	-5.73	126.96	130.40
36	1	2188	A	N1-C2-N3	5.73	132.16	129.30
36	1	3055	U	C2-N1-C1'	5.73	124.58	117.70
38	4	3	A	N1-C6-N6	5.73	122.04	118.60
1	6	97	C	N3-C4-C5	-5.73	119.61	121.90
1	6	449	C	N3-C2-O2	-5.73	117.89	121.90
1	6	781	U	C6-N1-C2	-5.73	117.56	121.00
36	5	370	U	C5-C4-O4	-5.73	122.46	125.90
36	5	512	U	C2-N3-C4	-5.73	123.56	127.00
36	5	618	C	C6-N1-C2	-5.73	118.01	120.30
36	5	694	C	C2-N3-C4	-5.73	117.03	119.90
36	5	1073	U	N3-C2-O2	-5.73	118.19	122.20
36	5	1290	A	C6-C5-N7	-5.73	128.29	132.30
36	5	1914	G	N7-C8-N9	5.73	115.97	113.10
1	2	192	U	O4'-C1'-N1	5.73	112.78	108.20
36	1	1365	G	N1-C6-O6	5.73	123.34	119.90
36	1	1450	G	OP1-P-OP2	5.73	128.19	119.60
36	1	1495	U	N3-C2-O2	5.73	126.21	122.20
36	1	2299	A	C5-C6-N6	-5.73	119.12	123.70
36	1	2337	C	C6-N1-C2	5.73	122.59	120.30
36	1	2736	A	N1-C2-N3	5.73	132.16	129.30
36	1	2939	G	C5-C6-O6	5.73	132.04	128.60
36	5	952	A	C6-N1-C2	5.73	122.04	118.60
36	5	3081	C	C2-N1-C1'	-5.73	112.50	118.80
36	5	3099	C	N3-C2-O2	5.73	125.91	121.90
1	2	1431	C	C6-N1-C2	5.73	122.59	120.30
36	1	734	C	C5-C6-N1	5.73	123.86	121.00
36	1	1852	G	C4-C5-C6	5.73	122.24	118.80
36	1	3336	A	C4-C5-C6	5.73	119.86	117.00
1	6	939	A	C6-N1-C2	-5.73	115.16	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	385	A	C2-N3-C4	-5.73	107.74	110.60
36	5	858	A	C2-N3-C4	5.73	113.46	110.60
36	5	942	U	C5-C6-N1	5.73	125.56	122.70
36	5	1132	C	OP2-P-O3'	5.73	117.80	105.20
36	5	2404	A	C4-C5-N7	-5.73	107.84	110.70
37	7	33	U	N3-C4-C5	5.73	118.04	114.60
36	1	1422	G	O4'-C1'-N9	-5.73	103.62	108.20
36	1	2408	U	N3-C4-C5	-5.73	111.16	114.60
36	1	2939	G	C8-N9-C1'	-5.73	119.56	127.00
36	1	3306	U	C2-N3-C4	-5.73	123.56	127.00
38	4	1	A	N7-C8-N9	-5.73	110.94	113.80
1	6	151	G	N1-C2-N2	5.73	121.35	116.20
1	6	1769	U	N3-C4-C5	-5.73	111.16	114.60
36	5	632	G	C8-N9-C1'	-5.73	119.56	127.00
36	5	1112	A	C6-C5-N7	-5.73	128.29	132.30
1	2	1477	G	C8-N9-C4	-5.72	104.11	106.40
36	1	2636	A	C5-N7-C8	-5.72	101.04	103.90
36	1	3044	G	N3-C4-C5	5.72	131.46	128.60
37	3	88	G	C4-N9-C1'	5.72	133.94	126.50
38	4	27	U	N1-C2-O2	5.72	126.81	122.80
76	Q0	122	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	6	344	A	C8-N9-C4	5.72	108.09	105.80
1	6	421	A	N1-C6-N6	5.72	122.03	118.60
36	5	1206	G	C8-N9-C1'	-5.72	119.56	127.00
36	5	2177	G	C5-C6-N1	5.72	114.36	111.50
36	5	2295	A	C5-C6-N1	5.72	120.56	117.70
1	2	393	C	N1-C2-O2	5.72	122.33	118.90
1	2	756	A	N7-C8-N9	5.72	116.66	113.80
1	2	1267	G	N3-C2-N2	-5.72	115.89	119.90
1	2	1584	G	C4-N9-C1'	-5.72	119.06	126.50
36	1	1529	A	N1-C6-N6	-5.72	115.17	118.60
36	1	1878	G	N1-C6-O6	5.72	123.33	119.90
36	1	1916	U	C2-N3-C4	-5.72	123.57	127.00
36	1	2703	A	C6-N1-C2	-5.72	115.17	118.60
36	1	3045	G	C5-C6-N1	5.72	114.36	111.50
1	6	29	U	OP2-P-O3'	5.72	117.79	105.20
1	6	545	A	N9-C4-C5	5.72	108.09	105.80
1	6	1185	U	C6-N1-C2	-5.72	117.57	121.00
36	5	25	U	N3-C4-C5	-5.72	111.17	114.60
36	5	776	U	C2-N3-C4	-5.72	123.57	127.00
36	5	1216	C	C2-N3-C4	-5.72	117.04	119.90
36	5	1302	A	O5'-P-OP2	5.72	117.57	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1476	G	C6-C5-N7	-5.72	126.97	130.40
36	5	1476	G	O5'-P-OP2	-5.72	100.55	105.70
36	5	1545	A	N7-C8-N9	5.72	116.66	113.80
36	5	2957	G	C6-C5-N7	-5.72	126.97	130.40
36	5	3142	A	C4-C5-N7	-5.72	107.84	110.70
36	5	3217	C	C4-C5-C6	5.72	120.26	117.40
37	7	16	U	C5-C6-N1	-5.72	119.84	122.70
37	7	21	G	N9-C4-C5	5.72	107.69	105.40
38	8	139	U	N3-C4-C5	5.72	118.03	114.60
1	2	21	U	C5-C6-N1	5.72	125.56	122.70
36	1	2278	C	O5'-P-OP2	-5.72	100.55	105.70
36	1	2704	A	OP1-P-O3'	5.72	117.79	105.20
36	1	3079	U	C6-N1-C1'	5.72	129.21	121.20
36	5	395	A	N9-C4-C5	5.72	108.09	105.80
36	5	1939	G	N3-C2-N2	5.72	123.91	119.90
37	7	5	G	C6-N1-C2	-5.72	121.67	125.10
36	1	89	A	C2-N3-C4	-5.72	107.74	110.60
36	1	562	C	C6-N1-C2	5.72	122.59	120.30
36	1	691	A	N7-C8-N9	5.72	116.66	113.80
36	1	898	U	N3-C2-O2	-5.72	118.20	122.20
36	1	914	A	N3-C4-C5	-5.72	122.80	126.80
36	1	1112	A	N3-C4-C5	-5.72	122.80	126.80
36	1	1525	G	N1-C2-N3	5.72	127.33	123.90
36	1	1783	U	C4-C5-C6	5.72	123.13	119.70
36	1	2624	G	C5-C6-O6	-5.72	125.17	128.60
36	1	2770	G	N7-C8-N9	5.72	115.96	113.10
36	1	2942	C	N3-C2-O2	5.72	125.90	121.90
1	6	1114	G	N3-C4-C5	-5.72	125.74	128.60
1	6	1533	C	N1-C2-O2	5.72	122.33	118.90
1	6	1575	G	C8-N9-C1'	5.72	134.44	127.00
36	5	942	U	N1-C2-N3	5.72	118.33	114.90
36	5	2330	C	C5-C6-N1	5.72	123.86	121.00
36	5	2703	A	N1-C6-N6	5.72	122.03	118.60
36	5	3223	A	N9-C4-C5	5.72	108.09	105.80
1	2	1120	U	N1-C2-N3	5.72	118.33	114.90
36	1	277	G	N3-C4-C5	-5.72	125.74	128.60
36	1	1117	G	C8-N9-C4	5.72	108.69	106.40
36	1	2414	G	N3-C2-N2	-5.72	115.90	119.90
1	6	597	G	C2-N3-C4	-5.72	109.04	111.90
1	6	1340	U	O5'-P-OP1	5.72	117.56	110.70
1	6	1392	U	C2-N1-C1'	-5.72	110.84	117.70
36	5	144	A	N1-C6-N6	-5.72	115.17	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1840	U	C5-C6-N1	-5.72	119.84	122.70
36	5	2421	U	N1-C2-O2	-5.72	118.80	122.80
1	2	611	U	N3-C4-O4	5.72	123.40	119.40
1	2	1423	U	C6-N1-C2	-5.72	117.57	121.00
36	1	590	G	OP2-P-O3'	5.72	117.78	105.20
36	1	1328	C	N1-C2-O2	-5.72	115.47	118.90
36	1	1713	G	N7-C8-N9	-5.72	110.24	113.10
36	1	2333	C	C2-N3-C4	-5.72	117.04	119.90
36	1	2572	C	O4'-C1'-N1	5.72	112.77	108.20
36	1	3369	G	C8-N9-C4	-5.72	104.11	106.40
1	6	313	U	C5-C6-N1	-5.72	119.84	122.70
1	6	748	U	N1-C2-O2	5.72	126.80	122.80
1	6	988	A	OP1-P-O3'	5.72	117.78	105.20
36	5	429	U	C6-N1-C2	5.72	124.43	121.00
36	5	883	A	O5'-P-OP1	-5.72	100.56	105.70
36	5	1890	U	N3-C4-C5	-5.72	111.17	114.60
36	5	2640	A	C2-N3-C4	-5.72	107.74	110.60
36	5	2695	A	N9-C4-C5	5.72	108.09	105.80
36	5	2758	A	C5-C6-N1	-5.72	114.84	117.70
37	7	33	U	O5'-P-OP1	-5.72	100.56	105.70
38	8	17	A	N7-C8-N9	-5.72	110.94	113.80
38	8	110	C	N1-C2-O2	5.72	122.33	118.90
40	l3	282	ILE	CG1-CB-CG2	-5.72	98.82	111.40
1	2	1290	U	N3-C2-O2	-5.71	118.20	122.20
1	2	1493	A	O4'-C1'-N9	5.71	112.77	108.20
36	1	743	C	C5-C4-N4	5.71	124.20	120.20
36	1	873	C	C5-C4-N4	-5.71	116.20	120.20
36	1	2692	A	N9-C4-C5	5.71	108.09	105.80
36	1	2840	C	N3-C2-O2	-5.71	117.90	121.90
36	1	3175	U	N1-C2-O2	5.71	126.80	122.80
1	6	27	U	N3-C4-C5	-5.71	111.17	114.60
1	6	558	U	C2-N1-C1'	5.71	124.56	117.70
1	6	1648	A	N1-C6-N6	5.71	122.03	118.60
36	5	272	G	C4-N9-C1'	-5.71	119.07	126.50
36	5	883	A	N9-C4-C5	5.71	108.09	105.80
36	5	1665	C	C5-C6-N1	-5.71	118.14	121.00
36	5	2160	G	N1-C2-N2	5.71	121.34	116.20
36	5	2330	C	N3-C4-C5	-5.71	119.61	121.90
36	5	2588	U	N3-C4-C5	-5.71	111.17	114.60
36	5	2630	C	N3-C2-O2	-5.71	117.90	121.90
36	5	2715	A	N1-C2-N3	5.71	132.16	129.30
36	5	2835	U	N3-C4-O4	5.71	123.40	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2993	G	C5-C6-O6	-5.71	125.17	128.60
38	8	20	U	O5'-P-OP1	5.71	117.56	110.70
36	1	274	G	O5'-P-OP1	5.71	117.56	110.70
36	1	980	A	OP1-P-OP2	-5.71	111.03	119.60
36	1	3213	A	C5-N7-C8	-5.71	101.04	103.90
38	4	115	C	C6-N1-C2	5.71	122.58	120.30
1	6	1243	G	C6-C5-N7	-5.71	126.97	130.40
1	6	1744	A	C8-N9-C4	5.71	108.08	105.80
36	5	307	A	N1-C6-N6	-5.71	115.17	118.60
36	5	1119	C	OP1-P-O3'	-5.71	92.63	105.20
36	5	1698	C	C6-N1-C2	-5.71	118.02	120.30
36	5	2191	U	N3-C2-O2	-5.71	118.20	122.20
1	2	931	C	C2-N3-C4	5.71	122.76	119.90
36	1	573	C	N3-C4-N4	-5.71	114.00	118.00
36	1	2433	U	N1-C2-O2	5.71	126.80	122.80
36	1	3298	C	C6-N1-C2	5.71	122.58	120.30
43	L6	29	LYS	CD-CE-NZ	5.71	124.84	111.70
1	6	51	A	O4'-C1'-N9	-5.71	103.63	108.20
1	6	983	A	N7-C8-N9	5.71	116.66	113.80
1	6	1572	G	N7-C8-N9	5.71	115.95	113.10
1	6	1647	U	O5'-P-OP1	5.71	117.55	110.70
36	5	97	U	OP2-P-O3'	5.71	117.77	105.20
36	5	395	A	C5-C6-N1	-5.71	114.84	117.70
36	5	1683	A	C2-N3-C4	-5.71	107.74	110.60
36	5	3091	A	C4-C5-N7	5.71	113.56	110.70
37	7	37	G	N3-C2-N2	5.71	123.90	119.90
36	1	212	G	C8-N9-C1'	-5.71	119.58	127.00
36	1	2910	A	OP2-P-O3'	5.71	117.76	105.20
38	4	103	G	C8-N9-C1'	-5.71	119.58	127.00
36	5	1195	A	N9-C4-C5	5.71	108.08	105.80
36	5	2674	A	C8-N9-C4	5.71	108.08	105.80
36	5	2988	C	N3-C2-O2	-5.71	117.90	121.90
36	5	3121	U	OP1-P-O3'	5.71	117.76	105.20
36	5	3167	A	C8-N9-C4	-5.71	103.52	105.80
36	5	3175	U	N1-C2-N3	5.71	118.33	114.90
1	2	1280	C	O5'-P-OP2	5.71	117.55	110.70
1	2	1572	G	C6-C5-N7	-5.71	126.97	130.40
36	1	639	G	OP1-P-O3'	5.71	117.76	105.20
36	1	700	C	C6-N1-C1'	5.71	127.65	120.80
36	1	1152	G	N3-C4-N9	5.71	129.43	126.00
36	1	1176	C	N3-C4-C5	5.71	124.18	121.90
36	1	1374	G	C5-C6-N1	5.71	114.35	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1650	G	N9-C4-C5	-5.71	103.12	105.40
36	1	2697	A	P-O3'-C3'	-5.71	112.85	119.70
36	1	2703	A	C4-N9-C1'	5.71	136.57	126.30
1	6	176	C	N1-C2-O2	5.71	122.33	118.90
1	6	1269	U	C6-N1-C2	-5.71	117.58	121.00
1	6	1337	A	N3-C4-N9	-5.71	122.83	127.40
1	6	1477	G	N1-C2-N3	-5.71	120.47	123.90
36	5	398	A	O4'-C1'-N9	-5.71	103.63	108.20
36	5	1079	A	N1-C6-N6	-5.71	115.17	118.60
36	5	1313	G	C5-C6-O6	-5.71	125.17	128.60
36	5	1592	G	C8-N9-C1'	-5.71	119.58	127.00
36	5	1680	G	C6-C5-N7	-5.71	126.97	130.40
36	5	2988	C	C5-C4-N4	-5.71	116.20	120.20
36	5	3019	U	C4-C5-C6	5.71	123.12	119.70
38	8	2	A	C4-C5-N7	5.71	113.55	110.70
1	2	1004	U	C6-N1-C2	-5.71	117.58	121.00
36	1	1521	G	N3-C4-C5	5.71	131.45	128.60
36	1	1830	G	O5'-P-OP1	-5.71	100.56	105.70
36	1	2416	U	C5-C4-O4	-5.71	122.48	125.90
36	1	2650	U	C6-N1-C2	-5.71	117.58	121.00
36	1	2703	A	C8-N9-C4	-5.71	103.52	105.80
36	1	2800	G	C5-N7-C8	-5.71	101.45	104.30
36	1	2964	G	C4-C5-C6	5.71	122.22	118.80
38	4	10	A	N7-C8-N9	-5.71	110.95	113.80
1	6	1178	G	C4-C5-N7	-5.71	108.52	110.80
1	6	1391	A	C6-N1-C2	-5.71	115.18	118.60
1	6	1663	G	N3-C4-N9	-5.71	122.58	126.00
8	s6	165	GLY	N-CA-C	-5.71	98.83	113.10
36	5	126	U	O5'-P-OP2	-5.71	100.56	105.70
36	5	692	A	C4-C5-C6	5.71	119.85	117.00
36	5	1848	G	O5'-P-OP2	-5.71	100.56	105.70
36	5	2343	C	N1-C2-N3	5.71	123.19	119.20
1	2	1022	C	N3-C4-N4	-5.71	114.01	118.00
1	2	1412	G	C8-N9-C1'	5.71	134.42	127.00
36	1	48	A	C8-N9-C4	-5.71	103.52	105.80
36	1	639	G	N7-C8-N9	5.71	115.95	113.10
37	3	110	G	C8-N9-C4	5.71	108.68	106.40
1	6	432	G	C8-N9-C1'	-5.71	119.58	127.00
1	6	1127	G	C4-C5-N7	5.71	113.08	110.80
1	6	1539	G	C4-N9-C1'	5.71	133.92	126.50
36	5	1114	U	C6-N1-C1'	5.71	129.19	121.20
36	5	2774	C	O5'-P-OP1	-5.71	100.56	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2887	A	O4'-C1'-N9	-5.71	103.64	108.20
1	2	987	G	C2-N3-C4	5.70	114.75	111.90
1	2	1140	G	C5-C6-N1	-5.70	108.65	111.50
36	1	425	G	N3-C2-N2	5.70	123.89	119.90
36	1	862	U	N3-C4-O4	5.70	123.39	119.40
36	1	2299	A	C2-N3-C4	5.70	113.45	110.60
36	1	3174	A	N1-C6-N6	5.70	122.02	118.60
38	4	109	A	C4-C5-C6	-5.70	114.15	117.00
44	L7	177	GLY	N-CA-C	-5.70	98.84	113.10
1	6	1337	A	C4-N9-C1'	-5.70	116.03	126.30
1	6	1361	U	N3-C2-O2	-5.70	118.21	122.20
36	5	1793	C	C6-N1-C2	5.70	122.58	120.30
36	5	1942	U	O5'-P-OP1	-5.70	100.57	105.70
36	5	3130	A	N1-C6-N6	5.70	122.02	118.60
36	5	3333	G	C5-N7-C8	5.70	107.15	104.30
36	1	281	G	OP1-P-O3'	5.70	117.75	105.20
36	1	959	C	N1-C2-N3	-5.70	115.21	119.20
1	2	419	G	C6-C5-N7	-5.70	126.98	130.40
1	2	573	C	C4-C5-C6	5.70	120.25	117.40
36	1	649	A	N9-C4-C5	5.70	108.08	105.80
36	1	744	A	N3-C4-N9	-5.70	122.84	127.40
36	1	994	G	C5-C6-O6	5.70	132.02	128.60
36	1	1867	A	C4-C5-C6	5.70	119.85	117.00
36	1	1916	U	C4-C5-C6	5.70	123.12	119.70
36	1	2159	U	C5-C6-N1	5.70	125.55	122.70
36	1	2247	G	N1-C6-O6	5.70	123.32	119.90
36	1	3178	A	C5-C6-N1	-5.70	114.85	117.70
1	6	1442	U	C5-C4-O4	5.70	129.32	125.90
1	6	1600	A	N1-C2-N3	5.70	132.15	129.30
36	5	687	U	C2-N1-C1'	-5.70	110.86	117.70
36	5	805	G	N3-C4-C5	-5.70	125.75	128.60
36	5	890	C	N3-C2-O2	-5.70	117.91	121.90
36	5	978	G	C5-C6-O6	-5.70	125.18	128.60
36	5	1403	C	C6-N1-C1'	-5.70	113.96	120.80
36	5	3159	C	C5-C6-N1	-5.70	118.15	121.00
38	8	56	G	N1-C6-O6	5.70	123.32	119.90
1	2	1083	G	C8-N9-C4	5.70	108.68	106.40
1	2	1431	C	C5-C4-N4	-5.70	116.21	120.20
36	1	26	A	N7-C8-N9	5.70	116.65	113.80
36	1	801	A	C4-C5-N7	5.70	113.55	110.70
36	1	919	U	N3-C4-C5	5.70	118.02	114.60
36	1	1149	G	P-O3'-C3'	5.70	126.54	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1336	U	OP2-P-O3'	5.70	117.74	105.20
36	1	2354	C	N3-C4-C5	-5.70	119.62	121.90
36	1	3328	G	C5-N7-C8	-5.70	101.45	104.30
38	4	54	A	N7-C8-N9	5.70	116.65	113.80
64	N8	59	ARG	NE-CZ-NH1	-5.70	117.45	120.30
1	6	596	C	C2-N1-C1'	-5.70	112.53	118.80
1	6	881	A	O5'-P-OP1	-5.70	100.57	105.70
1	6	1782	A	N7-C8-N9	5.70	116.65	113.80
36	5	115	A	N1-C2-N3	5.70	132.15	129.30
36	5	582	G	N3-C4-N9	-5.70	122.58	126.00
36	5	2417	U	N3-C2-O2	5.70	126.19	122.20
36	5	2654	C	O5'-P-OP1	-5.70	100.57	105.70
36	5	2779	A	O5'-P-OP2	-5.70	100.57	105.70
36	5	2947	G	N3-C2-N2	-5.70	115.91	119.90
1	2	745	U	O5'-P-OP2	-5.70	100.57	105.70
36	1	682	U	C5-C4-O4	5.70	129.32	125.90
36	1	1724	U	C2-N3-C4	-5.70	123.58	127.00
36	1	1869	C	C2-N3-C4	5.70	122.75	119.90
36	1	2310	U	OP1-P-OP2	5.70	128.15	119.60
1	6	417	A	N3-C4-C5	-5.70	122.81	126.80
1	6	718	U	N1-C2-O2	5.70	126.79	122.80
1	6	1504	G	C6-C5-N7	-5.70	126.98	130.40
1	6	1625	C	C6-N1-C2	5.70	122.58	120.30
1	6	1796	C	N1-C2-O2	5.70	122.32	118.90
36	5	1845	G	C4-C5-C6	5.70	122.22	118.80
36	5	2273	G	N9-C4-C5	5.70	107.68	105.40
1	2	576	G	N3-C2-N2	-5.70	115.91	119.90
1	2	1595	U	O4'-C1'-N1	5.70	112.76	108.20
36	1	112	U	N1-C2-N3	5.70	118.32	114.90
36	1	283	G	OP1-P-O3'	5.70	117.73	105.20
36	1	515	C	C2-N1-C1'	5.70	125.06	118.80
36	1	973	A	N1-C2-N3	5.70	132.15	129.30
36	1	1108	U	OP1-P-OP2	5.70	128.14	119.60
36	1	1396	C	N1-C2-N3	-5.70	115.21	119.20
36	1	1465	A	C4-N9-C1'	-5.70	116.05	126.30
36	1	1556	C	C4-C5-C6	5.70	120.25	117.40
36	1	3362	A	C6-C5-N7	-5.70	128.31	132.30
1	6	30	G	N1-C2-N3	5.70	127.32	123.90
1	6	956	C	C6-N1-C2	5.70	122.58	120.30
1	6	959	U	N3-C2-O2	5.70	126.19	122.20
36	5	182	U	N3-C4-C5	-5.70	111.18	114.60
36	5	1000	C	N3-C2-O2	5.70	125.89	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1270	A	N1-C6-N6	-5.70	115.18	118.60
36	5	2155	G	N1-C6-O6	5.70	123.32	119.90
36	5	2838	A	C5-N7-C8	5.70	106.75	103.90
36	5	2880	U	N3-C2-O2	5.70	126.19	122.20
37	7	26	C	C2-N1-C1'	5.70	125.06	118.80
48	m1	37	LEU	CA-CB-CG	-5.70	102.20	115.30
73	o7	65	ARG	NE-CZ-NH1	5.70	123.15	120.30
36	1	1454	A	N1-C2-N3	5.69	132.15	129.30
36	1	2292	U	N1-C2-N3	5.69	118.32	114.90
1	6	1122	G	C6-C5-N7	-5.69	126.98	130.40
1	2	1006	C	OP1-P-OP2	-5.69	111.06	119.60
36	1	205	C	C2-N3-C4	-5.69	117.05	119.90
36	1	1405	U	C2-N3-C4	-5.69	123.58	127.00
36	1	1542	G	N7-C8-N9	5.69	115.95	113.10
36	1	1849	C	C2-N3-C4	-5.69	117.05	119.90
36	1	2138	A	OP1-P-OP2	5.69	128.14	119.60
36	1	2179	C	C6-N1-C2	-5.69	118.02	120.30
36	1	2323	G	OP1-P-OP2	-5.69	111.06	119.60
36	1	2707	C	N1-C2-N3	5.69	123.19	119.20
36	1	3020	U	C6-N1-C2	-5.69	117.58	121.00
36	1	3223	A	C2-N3-C4	5.69	113.45	110.60
36	1	3300	U	C6-N1-C1'	-5.69	113.23	121.20
37	3	79	A	N1-C6-N6	5.69	122.02	118.60
1	6	34	G	N7-C8-N9	-5.69	110.25	113.10
1	6	123	G	N1-C6-O6	5.69	123.32	119.90
1	6	1662	G	N9-C4-C5	-5.69	103.12	105.40
1	6	1697	G	N3-C4-C5	-5.69	125.75	128.60
36	5	323	A	O5'-P-OP1	-5.69	100.58	105.70
36	5	666	A	N1-C2-N3	5.69	132.15	129.30
36	5	1132	C	C6-N1-C2	5.69	122.58	120.30
36	5	1815	U	P-O3'-C3'	5.69	126.53	119.70
36	5	2201	G	C8-N9-C1'	-5.69	119.60	127.00
36	5	2698	G	C4-N9-C1'	-5.69	119.10	126.50
36	5	2733	A	C5-C6-N6	-5.69	119.15	123.70
1	2	1241	G	C6-C5-N7	-5.69	126.99	130.40
1	2	1780	G	O4'-C1'-N9	-5.69	103.65	108.20
36	1	178	U	C5-C6-N1	5.69	125.55	122.70
36	1	277	G	C4-C5-N7	-5.69	108.52	110.80
36	1	1795	U	O4'-C1'-N1	5.69	112.75	108.20
37	3	110	G	C5-C6-N1	5.69	114.34	111.50
1	6	57	G	C8-N9-C1'	-5.69	119.60	127.00
1	6	1575	G	N1-C6-O6	-5.69	116.49	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	384	A	C2-N3-C4	-5.69	107.75	110.60
36	5	570	A	C8-N9-C4	5.69	108.08	105.80
36	5	642	U	C2-N3-C4	-5.69	123.59	127.00
36	5	660	A	N1-C6-N6	-5.69	115.19	118.60
36	5	1082	U	N1-C2-O2	5.69	126.78	122.80
36	5	1172	G	N3-C4-C5	-5.69	125.75	128.60
36	5	2111	G	C6-N1-C2	5.69	128.51	125.10
36	5	2732	G	N3-C2-N2	-5.69	115.92	119.90
36	5	2914	G	O5'-P-OP2	-5.69	100.58	105.70
36	5	3173	G	C4-N9-C1'	5.69	133.90	126.50
38	8	55	U	N3-C4-O4	5.69	123.38	119.40
36	1	276	U	C6-N1-C2	-5.69	117.59	121.00
36	1	434	U	C5-C4-O4	5.69	129.31	125.90
36	1	1929	G	C5-N7-C8	-5.69	101.45	104.30
36	1	2394	G	C6-N1-C2	-5.69	121.69	125.10
36	1	2647	A	N3-C4-C5	-5.69	122.82	126.80
36	5	2842	U	N3-C4-O4	5.69	123.38	119.40
36	5	3124	G	N9-C4-C5	5.69	107.67	105.40
36	1	227	G	C5-C6-O6	-5.69	125.19	128.60
36	1	398	A	N1-C2-N3	-5.69	126.46	129.30
36	1	794	U	OP2-P-O3'	5.69	117.71	105.20
36	1	835	G	C6-C5-N7	-5.69	126.99	130.40
36	1	855	U	C5-C4-O4	-5.69	122.49	125.90
36	1	985	U	N1-C2-N3	5.69	118.31	114.90
36	1	1838	G	C6-C5-N7	-5.69	126.99	130.40
36	1	1886	A	O5'-P-OP2	-5.69	100.58	105.70
36	1	2943	G	C4-C5-N7	5.69	113.08	110.80
36	1	3150	A	N9-C4-C5	-5.69	103.53	105.80
36	1	3240	C	N1-C2-O2	-5.69	115.49	118.90
36	1	3320	A	N7-C8-N9	5.69	116.64	113.80
38	4	18	U	OP1-P-OP2	-5.69	111.07	119.60
36	5	102	C	C2-N1-C1'	-5.69	112.54	118.80
36	5	1897	G	C4-N9-C1'	5.69	133.89	126.50
36	5	2441	A	N7-C8-N9	5.69	116.64	113.80
36	5	3027	A	N1-C6-N6	5.69	122.01	118.60
36	5	3285	C	N3-C2-O2	-5.69	117.92	121.90
36	5	3309	G	C8-N9-C4	5.69	108.67	106.40
1	2	822	U	C5-C6-N1	5.69	125.54	122.70
36	1	943	U	N1-C2-O2	-5.69	118.82	122.80
36	1	1191	U	C2-N3-C4	-5.69	123.59	127.00
36	1	3244	A	C2-N3-C4	-5.69	107.76	110.60
36	1	3288	G	C4-C5-N7	5.69	113.07	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	901	G	C5-C6-O6	-5.69	125.19	128.60
1	6	983	A	O5'-P-OP2	-5.69	100.58	105.70
36	5	546	C	C6-N1-C2	-5.69	118.03	120.30
36	5	1013	G	N9-C4-C5	5.69	107.67	105.40
36	5	1129	A	C5-N7-C8	-5.69	101.06	103.90
36	5	1215	U	O5'-P-OP2	-5.69	100.58	105.70
36	5	1673	G	C4-C5-N7	5.69	113.08	110.80
36	5	1833	G	O5'-P-OP2	-5.69	100.58	105.70
36	5	1886	A	C4-C5-N7	-5.69	107.86	110.70
36	1	595	G	N1-C2-N2	-5.68	111.08	116.20
36	1	1208	U	C5-C4-O4	-5.68	122.49	125.90
36	1	1340	G	OP2-P-O3'	5.68	117.71	105.20
36	1	1524	A	C5-N7-C8	5.68	106.74	103.90
36	1	1607	U	OP1-P-O3'	5.68	117.70	105.20
36	1	2175	U	C5-C4-O4	5.68	129.31	125.90
36	1	2206	G	N9-C4-C5	-5.68	103.13	105.40
36	1	2990	G	C5-C6-O6	-5.68	125.19	128.60
36	1	3134	A	OP2-P-O3'	5.68	117.71	105.20
1	6	1169	G	N3-C4-N9	5.68	129.41	126.00
3	s1	207	LEU	CB-CG-CD2	-5.68	101.34	111.00
36	5	790	U	C2-N3-C4	-5.68	123.59	127.00
36	5	1947	G	C6-N1-C2	-5.68	121.69	125.10
36	5	2381	G	OP1-P-O3'	5.68	117.71	105.20
36	5	3182	G	N1-C2-N2	-5.68	111.08	116.20
36	5	3197	G	C5-C6-O6	-5.68	125.19	128.60
36	1	277	G	C8-N9-C4	-5.68	104.13	106.40
36	1	701	G	C4-C5-C6	5.68	122.21	118.80
36	1	1161	G	C6-N1-C2	-5.68	121.69	125.10
36	1	2257	C	N1-C2-O2	5.68	122.31	118.90
36	1	2809	C	N3-C4-C5	-5.68	119.63	121.90
36	1	2882	U	O5'-P-OP1	5.68	117.52	110.70
36	1	2884	C	C5-C4-N4	5.68	124.18	120.20
36	1	3107	U	C5-C4-O4	5.68	129.31	125.90
36	1	3306	U	N3-C4-C5	5.68	118.01	114.60
38	4	117	C	N3-C2-O2	5.68	125.88	121.90
1	6	25	C	N1-C2-O2	5.68	122.31	118.90
1	6	1320	U	C2-N1-C1'	5.68	124.52	117.70
36	5	64	G	C8-N9-C1'	-5.68	119.61	127.00
36	5	437	G	C2-N3-C4	5.68	114.74	111.90
36	5	746	A	C2-N3-C4	-5.68	107.76	110.60
36	5	890	C	O5'-P-OP2	-5.68	100.58	105.70
36	5	1147	G	C5-N7-C8	-5.68	101.46	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1755	C	N1-C2-N3	-5.68	115.22	119.20
36	5	1848	G	O5'-P-OP1	-5.68	100.59	105.70
36	5	2151	C	C5-C6-N1	-5.68	118.16	121.00
36	5	3269	U	N1-C1'-C2'	-5.68	105.75	112.00
41	14	194	TYR	CA-CB-CG	5.68	124.20	113.40
19	C7	46	LEU	CA-CB-CG	5.68	128.37	115.30
36	1	959	C	C5-C6-N1	-5.68	118.16	121.00
36	1	1320	C	N3-C4-N4	-5.68	114.02	118.00
36	1	1435	A	O5'-P-OP2	5.68	117.52	110.70
36	1	1541	G	C4-C5-N7	5.68	113.07	110.80
20	c8	116	LEU	CB-CG-CD2	-5.68	101.34	111.00
36	5	984	G	C5-C6-O6	-5.68	125.19	128.60
36	5	1171	G	N9-C4-C5	5.68	107.67	105.40
1	2	909	U	C2-N1-C1'	-5.68	110.89	117.70
1	2	1092	A	C8-N9-C4	-5.68	103.53	105.80
1	2	1302	U	N1-C2-N3	-5.68	111.49	114.90
1	2	1553	G	C4-N9-C1'	-5.68	119.12	126.50
36	1	705	A	C5-C6-N6	-5.68	119.16	123.70
36	1	957	C	C2-N3-C4	-5.68	117.06	119.90
36	1	2313	A	O5'-P-OP2	5.68	117.52	110.70
36	1	3238	G	C5-C6-O6	5.68	132.01	128.60
38	4	35	C	N1-C2-O2	-5.68	115.49	118.90
38	4	110	C	C5-C6-N1	-5.68	118.16	121.00
1	6	637	C	C6-N1-C1'	-5.68	113.98	120.80
1	6	1038	U	N1-C2-O2	-5.68	118.82	122.80
36	5	227	G	OP1-P-OP2	5.68	128.12	119.60
36	5	423	A	N3-C4-N9	5.68	131.94	127.40
36	5	1208	U	N3-C2-O2	-5.68	118.22	122.20
36	5	1339	C	N1-C2-O2	5.68	122.31	118.90
36	5	1537	A	C2-N3-C4	-5.68	107.76	110.60
36	5	1554	U	N1-C2-O2	5.68	126.78	122.80
36	5	1890	U	C2-N3-C4	5.68	130.41	127.00
36	5	2557	A	N1-C6-N6	-5.68	115.19	118.60
36	5	2961	G	C8-N9-C1'	-5.68	119.62	127.00
36	5	3095	U	OP1-P-O3'	5.68	117.69	105.20
36	5	3271	G	C5-C6-N1	-5.68	108.66	111.50
1	2	1080	U	N3-C4-C5	-5.68	111.19	114.60
1	2	1782	A	C5-C6-N6	5.68	128.24	123.70
36	1	580	C	N3-C2-O2	5.68	125.88	121.90
36	1	729	C	N3-C4-C5	-5.68	119.63	121.90
36	1	1314	C	N3-C4-N4	5.68	121.97	118.00
1	6	408	C	C2-N1-C1'	-5.68	112.56	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	418	G	C4-N9-C1'	5.68	133.88	126.50
36	5	842	G	C6-C5-N7	5.68	133.81	130.40
36	5	905	U	C5-C6-N1	-5.68	119.86	122.70
36	1	361	A	C5-C6-N6	-5.68	119.16	123.70
36	1	732	C	N1-C2-O2	5.68	122.31	118.90
36	1	979	U	C5-C6-N1	5.68	125.54	122.70
36	1	1049	C	N1-C2-O2	-5.68	115.49	118.90
36	1	2244	A	C6-N1-C2	-5.68	115.19	118.60
36	1	2914	G	C5-C6-O6	5.68	132.01	128.60
36	1	3018	C	C5-C6-N1	-5.68	118.16	121.00
36	1	3291	G	N1-C2-N2	5.68	121.31	116.20
38	4	109	A	N1-C6-N6	5.68	122.01	118.60
1	6	11	A	C5-C6-N6	5.68	128.24	123.70
1	6	1774	G	N1-C2-N3	5.68	127.31	123.90
10	s8	90	LEU	CA-CB-CG	-5.68	102.25	115.30
36	5	1933	A	C2-N3-C4	-5.68	107.76	110.60
36	5	3097	C	N3-C4-N4	5.68	121.97	118.00
1	2	401	A	OP2-P-O3'	5.67	117.68	105.20
1	2	776	G	C8-N9-C4	5.67	108.67	106.40
1	2	1594	G	N1-C6-O6	5.67	123.31	119.90
36	1	968	G	N3-C4-N9	5.67	129.41	126.00
36	1	1150	A	O5'-P-OP1	5.67	117.51	110.70
36	1	1213	G	C4-C5-N7	5.67	113.07	110.80
36	1	3304	U	C2-N3-C4	-5.67	123.59	127.00
38	4	102	U	O5'-P-OP2	-5.67	100.59	105.70
1	6	108	A	N1-C6-N6	5.67	122.00	118.60
36	5	43	A	C4-C5-N7	5.67	113.54	110.70
36	5	234	G	N7-C8-N9	5.67	115.94	113.10
36	5	637	C	O5'-P-OP2	-5.67	100.59	105.70
36	5	935	U	N1-C2-N3	5.67	118.31	114.90
36	5	1306	G	N3-C4-N9	-5.67	122.59	126.00
36	5	1444	G	C8-N9-C1'	-5.67	119.62	127.00
36	5	2144	A	C2-N3-C4	5.67	113.44	110.60
36	5	2847	A	C5-N7-C8	-5.67	101.06	103.90
37	7	60	G	N7-C8-N9	5.67	115.94	113.10
36	1	131	C	C5-C6-N1	5.67	123.84	121.00
36	1	1713	G	N3-C4-N9	-5.67	122.60	126.00
36	1	1902	G	C5-C6-N1	-5.67	108.66	111.50
36	1	2598	G	C8-N9-C4	-5.67	104.13	106.40
36	1	3261	C	N3-C4-N4	5.67	121.97	118.00
1	6	901	G	C2-N3-C4	5.67	114.74	111.90
36	5	3230	G	N3-C4-C5	-5.67	125.76	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	197	G	N1-C2-N2	-5.67	111.10	116.20
36	1	938	C	N1-C2-O2	5.67	122.30	118.90
36	1	1454	A	N1-C6-N6	5.67	122.00	118.60
36	1	1460	A	C5-C6-N1	5.67	120.54	117.70
36	1	2699	G	N3-C4-C5	5.67	131.44	128.60
1	6	395	U	C6-N1-C2	-5.67	117.60	121.00
1	6	577	G	N1-C6-O6	5.67	123.30	119.90
36	5	88	A	C5-C6-N6	-5.67	119.16	123.70
36	5	2138	A	C2-N3-C4	-5.67	107.76	110.60
36	5	2948	C	N3-C2-O2	-5.67	117.93	121.90
36	5	3057	U	N3-C2-O2	-5.67	118.23	122.20
42	l5	248	ARG	NE-CZ-NH1	5.67	123.14	120.30
54	m8	11	LYS	CD-CE-NZ	5.67	124.74	111.70
37	3	84	A	OP1-P-OP2	-5.67	111.09	119.60
1	6	103	A	N7-C8-N9	5.67	116.64	113.80
36	5	967	A	C8-N9-C4	-5.67	103.53	105.80
36	5	2836	C	C5-C6-N1	-5.67	118.17	121.00
1	2	240	U	P-O3'-C3'	5.67	126.50	119.70
36	1	42	C	C2-N3-C4	-5.67	117.06	119.90
36	1	840	C	N3-C4-C5	5.67	124.17	121.90
36	1	886	C	C6-N1-C2	-5.67	118.03	120.30
36	1	945	C	N3-C4-C5	-5.67	119.63	121.90
36	1	1463	U	C4-C5-C6	5.67	123.10	119.70
36	1	2814	G	N1-C2-N3	5.67	127.30	123.90
36	1	3104	U	N1-C1'-C2'	-5.67	105.77	112.00
41	L4	156	LEU	CA-CB-CG	5.67	128.34	115.30
1	6	176	C	C6-N1-C1'	-5.67	114.00	120.80
1	6	755	A	C4-C5-N7	5.67	113.53	110.70
1	6	777	C	C4-C5-C6	-5.67	114.57	117.40
36	5	1203	A	N9-C4-C5	-5.67	103.53	105.80
36	5	1913	A	C4-C5-N7	5.67	113.53	110.70
36	5	2427	U	C5-C4-O4	5.67	129.30	125.90
1	2	48	G	N7-C8-N9	5.67	115.93	113.10
1	2	581	U	N3-C4-O4	5.67	123.37	119.40
1	2	1682	U	O4'-C1'-N1	5.67	112.73	108.20
36	1	317	A	N1-C2-N3	5.67	132.13	129.30
36	1	775	A	C2-N3-C4	5.67	113.43	110.60
36	1	879	U	O5'-P-OP2	-5.67	100.60	105.70
36	1	901	G	N1-C2-N2	5.67	121.30	116.20
36	1	1549	U	N3-C2-O2	5.67	126.17	122.20
36	1	1553	U	C5-C6-N1	-5.67	119.87	122.70
36	1	2909	U	C2-N3-C4	-5.67	123.60	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3240	C	C2-N1-C1'	-5.67	112.57	118.80
1	6	757	A	N3-C4-N9	-5.67	122.87	127.40
1	6	1504	G	C4-C5-C6	5.67	122.20	118.80
36	5	1361	U	C5-C6-N1	-5.67	119.87	122.70
36	5	1780	G	N7-C8-N9	5.67	115.93	113.10
36	5	3307	A	C5-C6-N6	-5.67	119.17	123.70
36	1	1377	G	N3-C4-N9	5.67	129.40	126.00
36	1	2831	G	N9-C4-C5	-5.67	103.13	105.40
1	6	1409	G	N3-C4-C5	-5.67	125.77	128.60
36	5	404	G	O5'-P-OP2	-5.67	100.60	105.70
36	5	989	A	C8-N9-C4	5.67	108.07	105.80
1	2	1791	A	C8-N9-C4	5.66	108.06	105.80
36	1	106	A	C8-N9-C4	5.66	108.06	105.80
36	1	370	U	C2-N1-C1'	5.66	124.50	117.70
36	1	633	C	C5-C6-N1	5.66	123.83	121.00
36	1	937	G	N9-C4-C5	-5.66	103.13	105.40
36	1	1182	A	N7-C8-N9	-5.66	110.97	113.80
36	1	1321	G	N1-C2-N2	5.66	121.30	116.20
36	1	2335	G	C8-N9-C4	-5.66	104.14	106.40
36	1	2639	G	N1-C6-O6	5.66	123.30	119.90
36	1	3053	G	C2-N3-C4	-5.66	109.07	111.90
36	1	3266	G	N1-C2-N2	-5.66	111.10	116.20
38	4	52	A	C2-N3-C4	-5.66	107.77	110.60
1	6	1110	G	C8-N9-C1'	-5.66	119.64	127.00
36	5	2280	A	OP2-P-O3'	5.66	117.66	105.20
36	5	2286	U	N1-C2-N3	5.66	118.30	114.90
36	5	2992	U	O5'-P-OP2	-5.66	100.60	105.70
36	1	1048	A	OP1-P-O3'	5.66	117.66	105.20
36	1	1507	G	N3-C2-N2	5.66	123.86	119.90
36	1	1940	G	N1-C6-O6	-5.66	116.50	119.90
36	1	2939	G	N3-C2-N2	-5.66	115.94	119.90
36	1	3135	U	C4-C5-C6	5.66	123.10	119.70
1	6	1172	G	C5-C6-O6	5.66	132.00	128.60
1	6	1536	G	N3-C4-C5	-5.66	125.77	128.60
36	5	637	C	N1-C2-O2	5.66	122.30	118.90
36	5	832	G	C8-N9-C1'	-5.66	119.64	127.00
36	5	2422	C	OP2-P-O3'	5.66	117.66	105.20
36	5	2811	A	N9-C4-C5	5.66	108.06	105.80
36	5	2910	A	C8-N9-C4	5.66	108.06	105.80
36	5	2943	G	O5'-P-OP1	5.66	117.49	110.70
38	8	55	U	C2-N1-C1'	5.66	124.50	117.70
1	2	360	A	N1-C2-N3	-5.66	126.47	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	569	C	C6-N1-C2	5.66	122.56	120.30
1	2	1363	U	N1-C2-O2	5.66	126.76	122.80
36	1	919	U	N3-C4-O4	-5.66	115.44	119.40
36	1	1333	C	C2-N3-C4	-5.66	117.07	119.90
36	1	1467	A	C5-C6-N1	5.66	120.53	117.70
36	1	2278	C	C6-N1-C2	5.66	122.56	120.30
36	1	2298	U	N1-C2-N3	5.66	118.30	114.90
36	1	2316	G	C5-C6-N1	-5.66	108.67	111.50
36	1	2769	A	C2-N3-C4	-5.66	107.77	110.60
1	6	1604	U	C2-N1-C1'	5.66	124.49	117.70
1	6	1636	C	C6-N1-C2	5.66	122.56	120.30
36	5	395	A	C5-C6-N6	5.66	128.23	123.70
36	5	618	C	N3-C2-O2	-5.66	117.94	121.90
36	5	974	G	C4-C5-N7	5.66	113.06	110.80
36	5	3291	G	N1-C6-O6	-5.66	116.50	119.90
37	7	85	G	N1-C2-N2	5.66	121.29	116.20
1	2	1037	C	C5-C6-N1	5.66	123.83	121.00
36	1	404	G	O4'-C1'-N9	-5.66	103.67	108.20
36	1	659	G	N1-C6-O6	-5.66	116.50	119.90
36	1	807	A	C4-C5-N7	5.66	113.53	110.70
36	1	1359	C	N3-C2-O2	5.66	125.86	121.90
36	1	1765	U	C5-C4-O4	5.66	129.29	125.90
36	1	2296	A	C6-N1-C2	5.66	122.00	118.60
36	1	2685	C	C5-C4-N4	5.66	124.16	120.20
1	6	316	A	C5-C6-N6	-5.66	119.17	123.70
1	6	330	G	C2-N3-C4	-5.66	109.07	111.90
1	6	1119	G	N1-C2-N3	5.66	127.30	123.90
1	6	1362	U	C5-C6-N1	5.66	125.53	122.70
36	5	894	G	N3-C2-N2	-5.66	115.94	119.90
36	5	2112	U	N1-C2-N3	5.66	118.30	114.90
36	5	2816	G	C8-N9-C4	5.66	108.66	106.40
36	5	3150	A	C5-C6-N6	-5.66	119.17	123.70
36	5	3182	G	O5'-P-OP1	5.66	117.49	110.70
69	o3	49	ILE	CG1-CB-CG2	-5.66	98.95	111.40
36	1	699	A	C4-C5-C6	-5.66	114.17	117.00
36	1	2300	G	C4-C5-C6	5.66	122.19	118.80
36	1	2323	G	N3-C4-N9	5.66	129.39	126.00
38	4	17	A	C6-C5-N7	-5.66	128.34	132.30
1	6	1115	U	N1-C2-O2	5.66	126.76	122.80
36	5	1399	A	C5-C6-N6	-5.66	119.17	123.70
36	5	1603	A	N3-C4-N9	5.66	131.93	127.40
36	5	2236	G	C4-N9-C1'	5.66	133.85	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2763	U	N3-C2-O2	5.66	126.16	122.20
36	5	2921	U	O4'-C1'-N1	-5.66	103.67	108.20
1	2	1282	U	C5-C6-N1	-5.66	119.87	122.70
36	1	225	C	N3-C4-C5	-5.66	119.64	121.90
36	1	272	G	O5'-P-OP1	-5.66	100.61	105.70
36	1	303	G	C5-C6-N1	5.66	114.33	111.50
36	1	680	G	N7-C8-N9	-5.66	110.27	113.10
36	1	871	U	C2-N1-C1'	-5.66	110.91	117.70
36	1	1306	G	C5-C6-N1	-5.66	108.67	111.50
36	1	1513	G	C4-C5-N7	5.66	113.06	110.80
36	1	2391	G	OP2-P-O3'	5.66	117.64	105.20
36	1	2556	C	C5-C4-N4	5.66	124.16	120.20
36	1	2893	C	OP1-P-OP2	5.66	128.08	119.60
36	1	3015	G	OP2-P-O3'	5.66	117.64	105.20
1	6	1422	A	N1-C6-N6	-5.66	115.21	118.60
1	6	1521	G	C6-N1-C2	-5.66	121.71	125.10
1	6	1777	G	C8-N9-C1'	-5.66	119.65	127.00
36	5	804	C	O5'-P-OP1	-5.66	100.61	105.70
36	5	963	G	N3-C4-C5	-5.66	125.77	128.60
36	5	1215	U	N3-C2-O2	5.66	126.16	122.20
36	5	1518	U	N1-C2-N3	5.66	118.29	114.90
36	5	2150	G	C6-C5-N7	-5.66	127.01	130.40
36	5	2524	A	N1-C6-N6	5.66	121.99	118.60
36	5	2850	G	N3-C4-N9	5.66	129.39	126.00
36	5	3146	G	O4'-C1'-N9	-5.66	103.68	108.20
38	8	2	A	N1-C2-N3	5.66	132.13	129.30
38	8	70	G	C5-C6-O6	5.66	131.99	128.60
77	q1	15	ARG	NE-CZ-NH1	-5.66	117.47	120.30
36	1	810	A	N1-C2-N3	5.65	132.13	129.30
36	1	2754	G	N3-C2-N2	5.65	123.86	119.90
36	5	2856	G	N3-C2-N2	-5.65	115.94	119.90
1	2	625	C	N1-C2-O2	5.65	122.29	118.90
1	2	1002	G	N3-C4-C5	-5.65	125.77	128.60
1	2	1589	C	N3-C2-O2	-5.65	117.94	121.90
36	1	591	G	C8-N9-C1'	-5.65	119.65	127.00
36	1	1154	A	P-O3'-C3'	-5.65	112.92	119.70
36	1	1370	G	C8-N9-C1'	5.65	134.35	127.00
36	1	1470	U	O5'-P-OP1	-5.65	100.61	105.70
36	1	2191	U	N1-C2-N3	5.65	118.29	114.90
1	6	144	U	C5-C6-N1	5.65	125.53	122.70
1	6	1270	G	C5-C6-O6	-5.65	125.21	128.60
36	5	993	G	N9-C4-C5	5.65	107.66	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1455	U	C5-C4-O4	-5.65	122.51	125.90
36	5	2381	G	N3-C2-N2	-5.65	115.94	119.90
36	5	3053	G	C5-C6-O6	5.65	131.99	128.60
36	5	3394	U	C6-N1-C2	-5.65	117.61	121.00
36	1	1061	A	C4-C5-N7	-5.65	107.88	110.70
36	1	2119	A	C6-C5-N7	-5.65	128.34	132.30
36	1	2237	C	C2-N3-C4	-5.65	117.07	119.90
36	1	2675	C	C6-N1-C2	5.65	122.56	120.30
1	6	337	G	N1-C2-N3	-5.65	120.51	123.90
1	6	453	U	C6-N1-C1'	-5.65	113.29	121.20
1	6	575	C	N3-C4-C5	5.65	124.16	121.90
1	6	1644	C	C5-C4-N4	5.65	124.16	120.20
1	6	1780	G	C4-N9-C1'	5.65	133.84	126.50
36	5	850	U	C5-C4-O4	-5.65	122.51	125.90
36	5	916	G	C6-N1-C2	-5.65	121.71	125.10
36	5	1902	G	C2-N3-C4	-5.65	109.08	111.90
36	5	2175	U	C5-C6-N1	-5.65	119.88	122.70
36	5	2377	G	N3-C4-N9	-5.65	122.61	126.00
36	5	2387	A	C6-C5-N7	-5.65	128.34	132.30
36	5	3142	A	O5'-P-OP2	5.65	117.48	110.70
37	7	88	G	C2-N3-C4	5.65	114.72	111.90
1	2	1788	G	C4-C5-C6	-5.65	115.41	118.80
6	S4	38	LEU	CA-CB-CG	5.65	128.29	115.30
36	1	1316	C	C5-C6-N1	-5.65	118.18	121.00
36	1	1927	G	N1-C2-N2	-5.65	111.12	116.20
36	1	2371	G	N1-C2-N3	5.65	127.29	123.90
36	1	2711	C	N1-C2-O2	-5.65	115.51	118.90
36	5	405	U	C5-C4-O4	-5.65	122.51	125.90
36	5	2831	G	C4-N9-C1'	5.65	133.84	126.50
36	5	2923	U	N3-C4-O4	5.65	123.35	119.40
36	5	3029	A	OP1-P-O3'	5.65	117.63	105.20
76	q0	106	ARG	NE-CZ-NH1	-5.65	117.47	120.30
36	1	1310	G	N3-C4-N9	-5.65	122.61	126.00
36	1	2610	G	N7-C8-N9	5.65	115.92	113.10
36	1	2666	C	C2-N3-C4	5.65	122.72	119.90
36	1	2864	A	N3-C4-N9	-5.65	122.88	127.40
56	N0	24	LEU	CA-CB-CG	5.65	128.29	115.30
1	6	692	C	C6-N1-C2	5.65	122.56	120.30
36	5	424	G	OP1-P-O3'	-5.65	92.78	105.20
36	5	954	U	C4-C5-C6	5.65	123.09	119.70
36	5	1784	G	N3-C4-C5	-5.65	125.78	128.60
36	5	2833	A	N7-C8-N9	-5.65	110.98	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2859	U	C5-C6-N1	-5.65	119.88	122.70
36	5	2924	U	N3-C4-O4	5.65	123.35	119.40
36	5	3249	C	C5-C6-N1	-5.65	118.18	121.00
36	1	1530	U	OP2-P-O3'	5.65	117.62	105.20
36	1	1871	U	O5'-P-OP2	5.65	117.48	110.70
36	1	1947	G	C4-C5-N7	5.65	113.06	110.80
1	6	718	U	N3-C2-O2	-5.65	118.25	122.20
36	5	677	A	N1-C6-N6	5.65	121.99	118.60
36	5	1792	C	OP1-P-OP2	5.65	128.07	119.60
36	5	2936	A	C4-C5-C6	5.65	119.82	117.00
1	2	1121	C	N3-C2-O2	-5.64	117.95	121.90
36	1	86	G	C5-C6-O6	-5.64	125.21	128.60
36	1	1194	G	N3-C4-C5	-5.64	125.78	128.60
1	6	94	U	N3-C2-O2	5.64	126.15	122.20
1	6	112	A	N9-C4-C5	-5.64	103.54	105.80
1	6	474	A	C6-N1-C2	5.64	121.99	118.60
1	6	1569	A	O4'-C1'-N9	-5.64	103.68	108.20
1	6	1654	G	O5'-P-OP2	-5.64	100.62	105.70
36	5	182	U	N1-C2-N3	5.64	118.29	114.90
36	5	326	U	N3-C2-O2	-5.64	118.25	122.20
36	5	1337	A	N3-C4-N9	-5.64	122.88	127.40
36	5	2973	G	N1-C2-N2	5.64	121.28	116.20
36	5	3128	G	OP1-P-OP2	-5.64	111.13	119.60
1	2	322	G	O5'-P-OP1	-5.64	100.62	105.70
1	2	1163	A	C2-N3-C4	-5.64	107.78	110.60
36	1	962	A	C8-N9-C4	-5.64	103.54	105.80
36	1	2113	A	N9-C4-C5	5.64	108.06	105.80
36	1	2348	A	C2-N3-C4	-5.64	107.78	110.60
36	1	2914	G	N9-C4-C5	5.64	107.66	105.40
36	1	3119	U	O5'-P-OP1	-5.64	100.62	105.70
1	6	151	G	N3-C4-C5	5.64	131.42	128.60
1	6	474	A	N3-C4-C5	5.64	130.75	126.80
1	6	598	U	C5-C4-O4	-5.64	122.51	125.90
1	6	827	C	N1-C2-O2	-5.64	115.51	118.90
1	6	1060	U	N1-C2-O2	5.64	126.75	122.80
36	5	718	G	N9-C4-C5	-5.64	103.14	105.40
36	5	1653	G	C8-N9-C1'	5.64	134.34	127.00
1	2	1272	U	C4-C5-C6	5.64	123.08	119.70
36	1	178	U	C6-N1-C2	-5.64	117.62	121.00
36	1	1404	G	N1-C2-N2	-5.64	111.12	116.20
36	1	1511	U	C2-N3-C4	-5.64	123.62	127.00
1	6	351	C	OP1-P-O3'	5.64	117.61	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	827	C	C2-N1-C1'	-5.64	112.59	118.80
1	6	1780	G	N9-C4-C5	-5.64	103.14	105.40
36	5	1137	C	C5-C4-N4	-5.64	116.25	120.20
36	5	1900	A	C5-C6-N6	-5.64	119.19	123.70
36	5	2578	U	N1-C2-O2	5.64	126.75	122.80
36	5	2644	C	OP2-P-O3'	5.64	117.61	105.20
38	8	7	U	O5'-P-OP1	-5.64	100.62	105.70
1	2	822	U	C2-N1-C1'	5.64	124.47	117.70
1	2	891	A	C8-N9-C4	5.64	108.06	105.80
1	2	1486	G	N7-C8-N9	5.64	115.92	113.10
36	1	636	C	OP1-P-O3'	5.64	117.61	105.20
36	1	1295	G	N3-C2-N2	5.64	123.85	119.90
36	1	1587	A	N9-C4-C5	5.64	108.06	105.80
36	1	1786	G	OP2-P-O3'	5.64	117.61	105.20
36	1	2232	A	N1-C6-N6	5.64	121.98	118.60
36	1	2277	C	N3-C2-O2	-5.64	117.95	121.90
36	1	2921	U	C2-N1-C1'	5.64	124.47	117.70
1	6	419	G	C4-C5-N7	5.64	113.06	110.80
1	6	1782	A	C8-N9-C4	-5.64	103.54	105.80
36	5	416	A	OP2-P-O3'	5.64	117.61	105.20
36	5	995	U	N3-C2-O2	-5.64	118.25	122.20
36	5	1877	U	C5-C4-O4	5.64	129.28	125.90
36	5	3226	A	N3-C4-N9	-5.64	122.89	127.40
37	7	81	U	N3-C2-O2	-5.64	118.25	122.20
37	7	95	A	C4-C5-C6	5.64	119.82	117.00
59	n3	70	ARG	NE-CZ-NH2	-5.64	117.48	120.30
36	1	1205	A	N1-C6-N6	5.64	121.98	118.60
36	1	2101	C	P-O3'-C3'	5.64	126.47	119.70
36	1	2272	G	C2-N3-C4	-5.64	109.08	111.90
36	1	2343	C	C2-N1-C1'	5.64	125.00	118.80
36	5	2393	G	N3-C2-N2	5.64	123.85	119.90
1	2	1484	G	C5-C6-O6	5.64	131.98	128.60
36	1	348	A	OP1-P-O3'	5.64	117.60	105.20
36	1	611	A	C8-N9-C4	5.64	108.06	105.80
36	1	683	U	N1-C2-O2	-5.64	118.85	122.80
36	1	1362	G	C4-N9-C1'	-5.64	119.17	126.50
36	1	1527	C	O5'-P-OP1	-5.64	100.63	105.70
36	1	1855	U	OP1-P-O3'	5.64	117.60	105.20
36	1	2174	G	C5-N7-C8	-5.64	101.48	104.30
36	1	2309	A	C5-C6-N6	-5.64	119.19	123.70
36	1	2352	A	C6-C5-N7	-5.64	128.35	132.30
36	1	2872	A	C8-N9-C4	5.64	108.06	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2897	A	C6-N1-C2	-5.64	115.22	118.60
1	6	965	U	N3-C2-O2	-5.64	118.25	122.20
1	6	1169	G	C5-C6-O6	5.64	131.98	128.60
1	6	1457	C	C6-N1-C1'	-5.64	114.03	120.80
1	6	1656	U	C6-N1-C2	5.64	124.38	121.00
20	c8	116	LEU	CA-CB-CG	5.64	128.26	115.30
36	5	874	U	O4'-C1'-N1	5.64	112.71	108.20
36	5	2140	U	C6-N1-C2	-5.64	117.62	121.00
36	5	2303	A	C5-C6-N6	-5.64	119.19	123.70
36	5	3037	U	O5'-P-OP2	-5.64	100.63	105.70
36	5	3181	C	N3-C4-C5	-5.64	119.64	121.90
36	5	3195	U	OP1-P-O3'	5.64	117.60	105.20
40	l3	246	LEU	CA-CB-CG	-5.64	102.34	115.30
62	n6	30	LEU	CA-CB-CG	5.64	128.26	115.30
1	2	65	A	C8-N9-C4	-5.63	103.55	105.80
1	2	378	A	C5-C6-N1	-5.63	114.88	117.70
1	2	449	C	N3-C4-N4	-5.63	114.06	118.00
1	2	825	U	N3-C4-O4	5.63	123.34	119.40
36	1	44	U	C5-C6-N1	-5.63	119.88	122.70
36	1	883	A	C2-N3-C4	-5.63	107.78	110.60
36	1	938	C	N1-C2-N3	5.63	123.14	119.20
36	1	1010	G	N9-C4-C5	-5.63	103.15	105.40
36	1	1947	G	N1-C6-O6	5.63	123.28	119.90
36	1	2157	G	O5'-P-OP2	-5.63	100.63	105.70
36	1	2694	A	O5'-P-OP1	-5.63	100.63	105.70
36	1	2964	G	C6-C5-N7	-5.63	127.02	130.40
36	1	3207	U	N1-C2-N3	5.63	118.28	114.90
37	3	92	A	C4-C5-N7	5.63	113.52	110.70
38	4	81	U	C2-N1-C1'	5.63	124.46	117.70
67	O1	55	LEU	CA-CB-CG	5.63	128.26	115.30
1	6	250	C	C5-C6-N1	5.63	123.82	121.00
1	6	1658	G	N3-C4-N9	-5.63	122.62	126.00
1	6	1676	U	C5-C6-N1	-5.63	119.88	122.70
36	5	714	G	C8-N9-C1'	-5.63	119.67	127.00
36	5	969	C	C2-N3-C4	-5.63	117.08	119.90
36	5	2825	C	OP1-P-O3'	-5.63	92.80	105.20
36	5	3337	G	O5'-P-OP1	5.63	117.46	110.70
38	8	65	A	C8-N9-C4	-5.63	103.55	105.80
40	l3	62	ARG	NE-CZ-NH2	-5.63	117.48	120.30
1	2	73	U	P-O3'-C3'	5.63	126.46	119.70
1	2	119	A	N7-C8-N9	-5.63	110.98	113.80
1	2	463	U	N1-C2-N3	5.63	118.28	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	422	A	C8-N9-C4	-5.63	103.55	105.80
36	1	1363	A	N9-C4-C5	-5.63	103.55	105.80
36	1	2727	A	C5-N7-C8	5.63	106.72	103.90
1	6	318	U	N3-C4-O4	5.63	123.34	119.40
36	5	592	A	C4-C5-C6	-5.63	114.18	117.00
36	5	1369	A	N7-C8-N9	5.63	116.62	113.80
37	7	108	A	OP2-P-O3'	5.63	117.59	105.20
38	8	33	A	OP2-P-O3'	5.63	117.59	105.20
47	m0	3	ARG	NE-CZ-NH1	5.63	123.12	120.30
36	1	918	C	N3-C4-N4	-5.63	114.06	118.00
36	1	1086	C	O5'-P-OP2	-5.63	100.63	105.70
36	1	1383	G	C8-N9-C4	-5.63	104.15	106.40
36	1	2139	A	C6-C5-N7	-5.63	128.36	132.30
36	1	2924	U	N1-C2-O2	-5.63	118.86	122.80
36	1	3196	U	N3-C4-O4	-5.63	115.46	119.40
1	6	163	G	C5-N7-C8	-5.63	101.48	104.30
1	6	800	U	C6-N1-C1'	5.63	129.09	121.20
1	6	862	A	N1-C6-N6	-5.63	115.22	118.60
1	6	1324	G	C2-N3-C4	-5.63	109.08	111.90
36	5	589	A	N9-C4-C5	5.63	108.05	105.80
36	5	965	A	N3-C4-N9	5.63	131.91	127.40
36	5	2325	G	C2-N3-C4	-5.63	109.08	111.90
36	5	3312	U	N3-C4-C5	5.63	117.98	114.60
36	5	3327	G	N3-C2-N2	-5.63	115.96	119.90
38	8	23	U	C6-N1-C2	5.63	124.38	121.00
54	m8	49	LEU	CA-CB-CG	5.63	128.25	115.30
1	2	404	G	N1-C6-O6	-5.63	116.52	119.90
36	1	95	A	N9-C4-C5	5.63	108.05	105.80
36	1	2135	U	N3-C2-O2	-5.63	118.26	122.20
1	6	787	G	N1-C6-O6	-5.63	116.52	119.90
1	6	982	U	N3-C4-C5	5.63	117.98	114.60
36	5	794	U	C5-C6-N1	5.63	125.52	122.70
36	5	1397	C	C4-C5-C6	5.63	120.22	117.40
36	5	1847	A	C5-C6-N6	5.63	128.20	123.70
36	5	2647	A	C5-N7-C8	-5.63	101.08	103.90
1	2	352	A	C6-N1-C2	-5.63	115.22	118.60
36	1	85	A	C8-N9-C4	-5.63	103.55	105.80
36	1	196	G	N1-C6-O6	-5.63	116.52	119.90
36	1	1315	U	C5-C6-N1	-5.63	119.89	122.70
36	1	1838	G	OP1-P-O3'	5.63	117.58	105.20
36	1	1911	A	C8-N9-C4	-5.63	103.55	105.80
36	1	2830	G	N3-C4-N9	-5.63	122.62	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2914	G	C8-N9-C4	-5.63	104.15	106.40
36	1	3309	G	C2-N3-C4	-5.63	109.09	111.90
38	4	27	U	C4-C5-C6	-5.63	116.32	119.70
1	6	972	G	N3-C4-C5	-5.63	125.79	128.60
1	6	1623	C	N3-C4-N4	5.63	121.94	118.00
36	5	569	A	C4-C5-N7	5.63	113.52	110.70
36	5	1880	U	C5-C4-O4	-5.63	122.52	125.90
36	5	2208	A	C4-C5-N7	5.63	113.51	110.70
36	5	2343	C	C2-N3-C4	-5.63	117.08	119.90
37	7	20	A	OP1-P-OP2	-5.63	111.16	119.60
37	7	88	G	OP2-P-O3'	5.63	117.58	105.20
1	2	182	A	N7-C8-N9	5.63	116.61	113.80
36	1	517	G	O5'-P-OP1	-5.63	100.64	105.70
36	1	1361	U	C5-C4-O4	-5.63	122.53	125.90
36	1	2204	C	C2-N1-C1'	5.63	124.99	118.80
36	1	2635	A	C4-C5-C6	5.63	119.81	117.00
36	1	3260	G	C4-N9-C1'	5.63	133.81	126.50
36	1	3264	G	C4-N9-C1'	5.63	133.81	126.50
41	L4	244	LEU	CA-CB-CG	5.63	128.24	115.30
44	L7	90	LYS	CD-CE-NZ	5.63	124.64	111.70
1	6	1101	G	N3-C4-N9	5.63	129.38	126.00
1	6	1396	U	C6-N1-C2	-5.63	117.62	121.00
13	c1	63	LEU	CA-CB-CG	-5.63	102.36	115.30
36	5	591	G	C5-C6-N1	-5.63	108.69	111.50
36	5	2706	G	O5'-P-OP1	-5.63	100.64	105.70
36	5	2999	U	O5'-P-OP1	-5.63	100.64	105.70
37	7	88	G	N1-C6-O6	-5.63	116.53	119.90
38	8	22	U	C2-N3-C4	-5.63	123.62	127.00
36	1	1095	U	C5-C6-N1	5.62	125.51	122.70
36	1	1521	G	O4'-C1'-N9	5.62	112.70	108.20
36	1	2210	G	C4-N9-C1'	-5.62	119.19	126.50
1	6	332	U	N1-C2-O2	5.62	126.74	122.80
1	6	1569	A	C4-C5-C6	5.62	119.81	117.00
1	6	1660	A	OP2-P-O3'	5.62	117.58	105.20
1	2	797	G	N3-C4-N9	-5.62	122.63	126.00
36	1	34	A	OP2-P-O3'	5.62	117.57	105.20
36	1	813	G	C6-C5-N7	-5.62	127.03	130.40
36	1	861	C	N1-C2-N3	5.62	123.14	119.20
36	1	1059	G	C8-N9-C4	5.62	108.65	106.40
36	1	1110	U	C6-N1-C2	5.62	124.37	121.00
36	1	1379	G	O4'-C1'-N9	-5.62	103.70	108.20
36	1	1635	G	C8-N9-C1'	-5.62	119.69	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1651	U	O4'-C1'-N1	5.62	112.70	108.20
36	5	368	G	N1-C2-N3	5.62	127.27	123.90
36	5	612	U	N1-C2-O2	-5.62	118.86	122.80
36	5	1860	G	N9-C4-C5	5.62	107.65	105.40
36	5	2262	A	C4-C5-N7	5.62	113.51	110.70
36	5	2335	G	C8-N9-C4	5.62	108.65	106.40
36	5	2354	C	N3-C2-O2	5.62	125.84	121.90
36	5	2728	G	C8-N9-C4	-5.62	104.15	106.40
36	5	2860	U	N1-C2-O2	5.62	126.74	122.80
36	5	2881	C	C2-N1-C1'	-5.62	112.61	118.80
36	5	2931	C	OP1-P-O3'	5.62	117.57	105.20
36	5	3184	A	C4-C5-N7	5.62	113.51	110.70
43	16	20	LYS	CD-CE-NZ	5.62	124.63	111.70
1	2	567	A	C8-N9-C4	5.62	108.05	105.80
36	1	308	A	O5'-P-OP1	5.62	117.45	110.70
36	1	1020	G	C4-C5-N7	5.62	113.05	110.80
36	1	1856	C	N1-C2-O2	5.62	122.27	118.90
36	1	2267	C	O5'-P-OP2	5.62	117.45	110.70
36	1	2554	A	C8-N9-C4	5.62	108.05	105.80
36	1	3375	A	N1-C2-N3	5.62	132.11	129.30
38	4	44	A	N7-C8-N9	5.62	116.61	113.80
1	6	611	U	C4-C5-C6	5.62	123.07	119.70
36	5	191	U	O5'-P-OP1	5.62	117.45	110.70
36	5	1411	C	C2-N3-C4	-5.62	117.09	119.90
36	5	1598	G	N3-C4-C5	-5.62	125.79	128.60
36	5	3044	G	N7-C8-N9	5.62	115.91	113.10
36	5	3207	U	N1-C2-N3	5.62	118.27	114.90
36	5	3295	A	N9-C4-C5	5.62	108.05	105.80
36	1	1436	U	N3-C2-O2	-5.62	118.27	122.20
1	6	107	C	N1-C2-N3	5.62	123.13	119.20
36	5	868	C	O5'-P-OP2	5.62	117.44	110.70
36	5	1216	C	C5-C4-N4	-5.62	116.27	120.20
36	5	1498	A	C5-C6-N6	5.62	128.20	123.70
36	5	2514	U	C6-N1-C1'	5.62	129.07	121.20
36	5	3379	C	C5-C6-N1	-5.62	118.19	121.00
1	2	30	G	C4-C5-N7	5.62	113.05	110.80
1	2	551	G	N3-C4-C5	5.62	131.41	128.60
1	2	555	A	N9-C4-C5	5.62	108.05	105.80
36	1	299	G	C4-C5-N7	5.62	113.05	110.80
36	1	647	A	N1-C2-N3	5.62	132.11	129.30
36	1	754	G	N9-C4-C5	-5.62	103.15	105.40
36	1	830	A	C2-N3-C4	-5.62	107.79	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	996	A	C5-C6-N6	-5.62	119.20	123.70
36	1	3017	A	OP2-P-O3'	5.62	117.56	105.20
36	1	3186	A	C8-N9-C4	-5.62	103.55	105.80
38	4	99	C	C5-C4-N4	-5.62	116.27	120.20
1	6	313	U	C5-C4-O4	5.62	129.27	125.90
1	6	1089	U	C5-C6-N1	5.62	125.51	122.70
36	5	649	A	C6-C5-N7	-5.62	128.37	132.30
36	5	718	G	C5-C6-O6	-5.62	125.23	128.60
36	5	1410	U	O5'-P-OP1	5.62	117.44	110.70
36	5	2865	U	C5-C4-O4	5.62	129.27	125.90
36	5	2867	C	O4'-C1'-N1	5.62	112.69	108.20
37	7	5	G	N1-C6-O6	-5.62	116.53	119.90
1	2	529	A	N7-C8-N9	-5.62	110.99	113.80
36	1	412	G	C8-N9-C4	-5.62	104.15	106.40
36	1	651	G	O5'-P-OP1	5.62	117.44	110.70
36	1	1000	C	C5-C4-N4	-5.62	116.27	120.20
36	1	1174	G	N3-C2-N2	5.62	123.83	119.90
1	6	786	C	N3-C2-O2	-5.62	117.97	121.90
36	5	769	G	N3-C4-C5	5.62	131.41	128.60
36	5	1340	G	C5-N7-C8	-5.62	101.49	104.30
36	5	1491	A	N1-C2-N3	5.62	132.11	129.30
36	5	2626	A	N1-C6-N6	5.62	121.97	118.60
36	5	3127	A	OP2-P-O3'	5.62	117.56	105.20
38	8	42	G	O5'-P-OP1	5.62	117.44	110.70
1	2	1080	U	C6-N1-C2	-5.62	117.63	121.00
36	1	387	A	C5-N7-C8	-5.62	101.09	103.90
36	1	414	U	N3-C2-O2	-5.62	118.27	122.20
36	1	1048	A	C2-N3-C4	5.62	113.41	110.60
36	1	1386	A	C8-N9-C1'	5.62	137.81	127.70
36	1	2323	G	O5'-P-OP1	5.62	117.44	110.70
36	1	3119	U	C6-N1-C2	-5.62	117.63	121.00
36	1	3186	A	N1-C2-N3	5.62	132.11	129.30
1	6	31	C	N3-C4-C5	-5.62	119.65	121.90
1	6	1443	U	N1-C2-O2	5.62	126.73	122.80
1	6	1576	A	C8-N9-C4	5.62	108.05	105.80
36	5	526	C	C6-N1-C1'	-5.62	114.06	120.80
36	5	639	G	OP1-P-O3'	5.62	117.55	105.20
36	5	966	U	N3-C4-O4	5.62	123.33	119.40
36	5	1475	A	N1-C6-N6	-5.62	115.23	118.60
36	5	2514	U	C6-N1-C2	-5.62	117.63	121.00
36	5	2620	G	N7-C8-N9	5.62	115.91	113.10
36	5	2659	G	C5-C6-O6	-5.62	125.23	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3164	C	C6-N1-C1'	-5.62	114.06	120.80
36	5	3184	A	OP2-P-O3'	5.62	117.56	105.20
36	1	873	C	N1-C2-N3	5.61	123.13	119.20
36	1	1364	C	C6-N1-C2	5.61	122.55	120.30
36	1	1443	G	OP1-P-O3'	5.61	117.55	105.20
36	1	2740	A	C5-C6-N1	5.61	120.51	117.70
36	1	3372	A	N7-C8-N9	-5.61	110.99	113.80
1	6	1168	U	C6-N1-C2	-5.61	117.63	121.00
1	6	1592	A	C5-C6-N6	5.61	128.19	123.70
36	5	297	G	N3-C4-N9	5.61	129.37	126.00
36	5	1365	G	N9-C4-C5	5.61	107.65	105.40
36	5	1505	C	N1-C2-O2	-5.61	115.53	118.90
36	5	1924	U	C2-N1-C1'	-5.61	110.96	117.70
36	5	2825	C	C2-N3-C4	5.61	122.71	119.90
1	2	458	G	C5-C6-N1	-5.61	108.69	111.50
36	1	675	C	C6-N1-C2	-5.61	118.06	120.30
36	1	861	C	N3-C2-O2	-5.61	117.97	121.90
36	1	3054	U	C6-N1-C1'	5.61	129.06	121.20
36	1	3216	G	N1-C2-N2	-5.61	111.15	116.20
36	5	636	C	N3-C4-N4	5.61	121.93	118.00
36	5	831	G	C8-N9-C4	5.61	108.64	106.40
36	5	1733	G	N1-C6-O6	5.61	123.27	119.90
36	1	29	C	N3-C4-N4	5.61	121.93	118.00
36	1	334	A	C4-C5-C6	-5.61	114.19	117.00
36	1	1056	U	N1-C2-N3	5.61	118.27	114.90
36	1	2272	G	N1-C6-O6	5.61	123.27	119.90
36	1	2808	A	C8-N9-C1'	-5.61	117.60	127.70
36	1	2893	C	O5'-P-OP1	-5.61	100.65	105.70
36	1	3040	A	C5-N7-C8	5.61	106.70	103.90
1	6	23	G	N3-C4-N9	-5.61	122.63	126.00
1	6	430	G	N3-C4-C5	-5.61	125.80	128.60
1	6	993	A	C2-N3-C4	-5.61	107.79	110.60
1	6	1650	U	P-O3'-C3'	-5.61	112.97	119.70
36	5	408	A	N1-C2-N3	5.61	132.10	129.30
36	5	1138	U	C2-N3-C4	-5.61	123.63	127.00
36	5	2938	G	C6-C5-N7	-5.61	127.03	130.40
36	1	231	G	C8-N9-C4	5.61	108.64	106.40
36	1	299	G	C5-C6-O6	-5.61	125.23	128.60
1	6	865	A	C5-C6-N1	5.61	120.50	117.70
1	6	1117	U	N3-C4-C5	-5.61	111.23	114.60
1	6	1186	U	N3-C4-C5	5.61	117.97	114.60
36	5	1634	G	N3-C4-N9	5.61	129.37	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1661	G	C8-N9-C4	5.61	108.64	106.40
36	1	637	C	O5'-P-OP1	-5.61	100.65	105.70
36	1	709	A	N7-C8-N9	-5.61	111.00	113.80
36	1	973	A	C6-C5-N7	5.61	136.22	132.30
36	1	1893	A	C6-C5-N7	-5.61	128.38	132.30
36	1	1927	G	N3-C2-N2	5.61	123.83	119.90
36	1	2193	U	N1-C2-N3	5.61	118.27	114.90
36	1	2675	C	N3-C2-O2	5.61	125.83	121.90
36	1	3114	A	C4-C5-C6	5.61	119.80	117.00
1	6	457	G	C5-C6-O6	-5.61	125.24	128.60
1	6	1118	G	O5'-P-OP2	-5.61	100.65	105.70
1	6	1775	U	C5-C6-N1	-5.61	119.90	122.70
36	5	365	A	C5-C6-N6	-5.61	119.21	123.70
36	5	2208	A	C6-C5-N7	-5.61	128.37	132.30
36	5	2304	C	C5-C6-N1	5.61	123.80	121.00
36	5	2391	G	C5-N7-C8	5.61	107.10	104.30
36	5	2817	A	C6-N1-C2	-5.61	115.23	118.60
36	5	2918	G	C5-C6-N1	5.61	114.30	111.50
38	8	105	A	N1-C6-N6	5.61	121.96	118.60
1	2	982	U	OP2-P-O3'	5.61	117.53	105.20
36	1	238	A	C8-N9-C4	-5.61	103.56	105.80
36	1	973	A	C4-N9-C1'	-5.61	116.21	126.30
36	1	1220	U	N1-C2-N3	5.61	118.26	114.90
36	1	1307	G	O4'-C1'-N9	-5.61	103.72	108.20
36	1	2874	G	C5-C6-O6	5.61	131.96	128.60
1	6	746	A	C8-N9-C4	-5.61	103.56	105.80
36	5	189	G	C6-N1-C2	-5.61	121.74	125.10
36	5	199	A	O4'-C1'-N9	5.61	112.68	108.20
36	5	276	U	C5-C4-O4	-5.61	122.54	125.90
36	5	567	G	N9-C4-C5	-5.61	103.16	105.40
36	5	2389	C	N3-C4-C5	5.61	124.14	121.90
36	5	3129	A	N3-C4-C5	5.61	130.72	126.80
36	5	3272	C	C4-C5-C6	5.61	120.20	117.40
36	1	870	G	N3-C4-N9	-5.60	122.64	126.00
36	1	1064	A	C6-C5-N7	5.60	136.22	132.30
36	1	1851	G	C4-C5-N7	5.60	113.04	110.80
36	1	1922	A	C5-C6-N6	-5.60	119.22	123.70
1	6	211	U	O5'-P-OP2	-5.60	100.66	105.70
36	5	632	G	N3-C4-C5	-5.60	125.80	128.60
36	5	702	C	C6-N1-C2	-5.60	118.06	120.30
36	5	883	A	N1-C6-N6	-5.60	115.24	118.60
36	5	998	A	C5-N7-C8	5.60	106.70	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2601	A	N7-C8-N9	-5.60	111.00	113.80
1	2	1217	A	C4-C5-N7	5.60	113.50	110.70
36	1	621	A	C8-N9-C4	-5.60	103.56	105.80
36	1	2139	A	C2-N3-C4	-5.60	107.80	110.60
36	1	2611	U	N3-C2-O2	-5.60	118.28	122.20
36	1	2831	G	N7-C8-N9	5.60	115.90	113.10
36	1	2932	U	C2-N1-C1'	-5.60	110.98	117.70
36	1	3135	U	N1-C2-N3	5.60	118.26	114.90
36	1	3340	G	C8-N9-C4	-5.60	104.16	106.40
37	3	33	U	C2-N1-C1'	5.60	124.42	117.70
38	4	82	U	P-O3'-C3'	5.60	126.42	119.70
1	6	381	C	N3-C4-C5	5.60	124.14	121.90
1	6	1277	G	C4-C5-N7	5.60	113.04	110.80
1	6	1658	G	C2-N3-C4	-5.60	109.10	111.90
36	5	1400	G	N7-C8-N9	5.60	115.90	113.10
36	5	1592	G	N9-C4-C5	5.60	107.64	105.40
36	5	1910	A	C4-C5-N7	5.60	113.50	110.70
36	5	2202	C	N1-C2-O2	-5.60	115.54	118.90
36	5	2413	A	C8-N9-C4	-5.60	103.56	105.80
36	5	2572	C	N3-C2-O2	-5.60	117.98	121.90
36	5	2610	G	N1-C6-O6	5.60	123.26	119.90
36	5	3093	C	C2-N3-C4	-5.60	117.10	119.90
36	5	3245	A	C8-N9-C4	-5.60	103.56	105.80
38	8	5	U	N3-C2-O2	5.60	126.12	122.20
38	8	26	U	C5-C4-O4	5.60	129.26	125.90
1	2	628	G	N1-C6-O6	5.60	123.26	119.90
36	1	595	G	C6-C5-N7	-5.60	127.04	130.40
36	1	623	U	C6-N1-C2	-5.60	117.64	121.00
36	1	2893	C	C4-C5-C6	5.60	120.20	117.40
36	1	3075	G	N3-C2-N2	-5.60	115.98	119.90
36	1	3324	C	C5-C4-N4	5.60	124.12	120.20
1	6	383	G	N1-C6-O6	5.60	123.26	119.90
1	6	1700	C	C2-N3-C4	5.60	122.70	119.90
36	5	2677	G	C5-C6-O6	-5.60	125.24	128.60
36	1	823	C	N3-C2-O2	5.60	125.82	121.90
36	1	973	A	N9-C4-C5	5.60	108.04	105.80
36	1	1127	G	N3-C4-N9	-5.60	122.64	126.00
36	1	2216	G	C5-C6-N1	5.60	114.30	111.50
36	1	2775	U	C2-N1-C1'	-5.60	110.98	117.70
36	1	3006	A	N9-C4-C5	5.60	108.04	105.80
1	6	391	A	C5-C6-N1	-5.60	114.90	117.70
1	6	540	G	C4-N9-C1'	-5.60	119.22	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	956	C	C5-C6-N1	-5.60	118.20	121.00
1	6	969	C	C5-C4-N4	-5.60	116.28	120.20
1	6	1424	A	O5'-P-OP1	5.60	117.42	110.70
36	5	883	A	N1-C2-N3	5.60	132.10	129.30
36	5	913	A	N3-C4-C5	-5.60	122.88	126.80
36	5	1320	C	N3-C4-C5	-5.60	119.66	121.90
36	5	1403	C	O4'-C1'-N1	-5.60	103.72	108.20
36	5	2362	C	OP1-P-O3'	5.60	117.52	105.20
36	5	2394	G	C5-C6-N1	-5.60	108.70	111.50
36	5	2890	A	C5-C6-N6	5.60	128.18	123.70
36	5	3213	A	N9-C4-C5	-5.60	103.56	105.80
1	2	1080	U	C5-C4-O4	5.60	129.26	125.90
36	1	233	C	OP1-P-OP2	5.60	128.00	119.60
36	1	885	U	O5'-P-OP1	-5.60	100.66	105.70
36	1	950	G	N3-C2-N2	-5.60	115.98	119.90
36	1	1402	C	C4-C5-C6	5.60	120.20	117.40
36	1	2304	C	C5-C6-N1	-5.60	118.20	121.00
36	1	2556	C	N3-C4-N4	-5.60	114.08	118.00
36	1	2839	G	OP2-P-O3'	5.60	117.52	105.20
1	6	1106	U	C2-N1-C1'	5.60	124.42	117.70
1	6	1576	A	N9-C4-C5	-5.60	103.56	105.80
1	6	1777	G	N7-C8-N9	5.60	115.90	113.10
18	c6	30	LYS	CD-CE-NZ	5.60	124.57	111.70
20	c8	115	ARG	NE-CZ-NH1	-5.60	117.50	120.30
36	5	1238	C	P-O3'-C3'	5.60	126.42	119.70
36	5	1476	G	C8-N9-C4	5.60	108.64	106.40
36	5	1498	A	C6-N1-C2	-5.60	115.24	118.60
36	5	2380	U	N1-C2-N3	5.60	118.26	114.90
36	5	2418	G	C4-C5-C6	5.60	122.16	118.80
36	5	2600	C	C5-C6-N1	5.60	123.80	121.00
36	5	3061	G	N3-C2-N2	-5.60	115.98	119.90
36	5	3176	G	C4-N9-C1'	5.60	133.78	126.50
37	7	113	C	C4-C5-C6	5.60	120.20	117.40
1	2	1727	G	OP1-P-OP2	5.60	127.99	119.60
1	6	1167	G	C6-C5-N7	-5.60	127.04	130.40
36	5	34	A	C4-C5-C6	5.60	119.80	117.00
36	5	429	U	C5-C6-N1	-5.60	119.90	122.70
36	5	698	U	OP2-P-O3'	5.60	117.51	105.20
36	5	1810	A	N1-C6-N6	5.60	121.96	118.60
36	5	2208	A	N7-C8-N9	5.60	116.60	113.80
36	5	2754	G	N3-C4-C5	-5.60	125.80	128.60
1	2	1137	A	C4-C5-C6	-5.59	114.20	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1466	G	C8-N9-C4	-5.59	104.16	106.40
36	1	693	A	C4-C5-N7	5.59	113.50	110.70
36	1	2820	A	N3-C4-C5	5.59	130.72	126.80
36	1	3042	U	C6-N1-C1'	5.59	129.03	121.20
36	1	3163	A	C4-C5-N7	5.59	113.50	110.70
1	6	867	G	C6-C5-N7	5.59	133.76	130.40
36	5	404	G	O4'-C1'-N9	-5.59	103.72	108.20
36	5	647	A	C8-N9-C4	-5.59	103.56	105.80
36	5	1301	A	C4-C5-C6	5.59	119.80	117.00
36	5	1848	G	O4'-C1'-N9	-5.59	103.72	108.20
36	5	2197	C	N3-C2-O2	5.59	125.82	121.90
36	5	2392	C	P-O3'-C3'	5.59	126.41	119.70
36	5	2400	G	N9-C4-C5	5.59	107.64	105.40
36	1	1792	C	C2-N1-C1'	5.59	124.95	118.80
1	6	1668	G	C5-C6-O6	-5.59	125.24	128.60
36	5	1318	A	N7-C8-N9	-5.59	111.00	113.80
36	5	1603	A	N3-C4-C5	-5.59	122.89	126.80
36	5	2263	C	N3-C4-C5	-5.59	119.66	121.90
36	5	2889	C	C6-N1-C2	5.59	122.54	120.30
37	7	75	G	N7-C8-N9	-5.59	110.30	113.10
1	2	1385	G	C8-N9-C4	5.59	108.64	106.40
36	1	47	C	N3-C4-N4	5.59	121.91	118.00
36	1	523	A	O4'-C1'-N9	-5.59	103.73	108.20
36	1	857	G	C5-C6-O6	5.59	131.96	128.60
36	1	865	U	C6-N1-C2	5.59	124.36	121.00
36	1	2433	U	N3-C2-O2	-5.59	118.29	122.20
1	6	1101	G	C6-N1-C2	-5.59	121.75	125.10
1	6	1123	C	N3-C2-O2	5.59	125.81	121.90
1	6	1243	G	C4-C5-C6	5.59	122.16	118.80
1	6	1361	U	C6-N1-C1'	-5.59	113.37	121.20
1	6	1642	G	C5-N7-C8	-5.59	101.50	104.30
36	5	214	G	N1-C2-N3	-5.59	120.55	123.90
36	5	362	U	C6-N1-C2	-5.59	117.64	121.00
36	5	590	G	C4-C5-N7	-5.59	108.56	110.80
36	5	1127	G	C6-N1-C2	-5.59	121.75	125.10
36	5	1355	A	C5-C6-N1	-5.59	114.90	117.70
36	5	1527	C	N3-C2-O2	5.59	125.81	121.90
37	7	90	U	N3-C4-O4	5.59	123.31	119.40
36	1	369	A	C6-N1-C2	-5.59	115.25	118.60
36	1	2324	A	N1-C6-N6	5.59	121.95	118.60
36	1	3132	C	O5'-P-OP2	5.59	117.41	110.70
36	1	3140	G	C5-N7-C8	-5.59	101.51	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3366	G	N3-C4-C5	-5.59	125.81	128.60
38	4	43	A	OP1-P-OP2	-5.59	111.22	119.60
1	6	408	C	O5'-P-OP1	5.59	117.41	110.70
1	6	1470	C	O5'-P-OP1	-5.59	100.67	105.70
36	5	1058	U	C6-N1-C2	5.59	124.35	121.00
36	5	1184	A	OP2-P-O3'	5.59	117.50	105.20
36	5	1293	U	N3-C4-C5	5.59	117.95	114.60
36	5	2295	A	OP1-P-OP2	5.59	127.98	119.60
36	5	3065	G	N1-C2-N2	-5.59	111.17	116.20
36	5	3192	U	N1-C2-O2	-5.59	118.89	122.80
1	6	1002	G	C6-C5-N7	5.59	133.75	130.40
36	5	697	A	C5-N7-C8	5.59	106.69	103.90
36	5	717	C	C6-N1-C1'	-5.59	114.09	120.80
36	5	835	G	N9-C4-C5	5.59	107.64	105.40
36	5	1376	C	OP1-P-OP2	5.59	127.98	119.60
36	5	1573	G	C5-C6-O6	5.59	131.95	128.60
36	5	2219	A	C8-N9-C4	5.59	108.03	105.80
1	2	22	A	N1-C6-N6	-5.59	115.25	118.60
36	1	820	A	N1-C6-N6	-5.59	115.25	118.60
36	1	1292	C	N3-C2-O2	5.59	125.81	121.90
36	1	1371	G	C5-N7-C8	5.59	107.09	104.30
36	1	2733	A	OP1-P-OP2	-5.59	111.22	119.60
36	1	3136	G	N7-C8-N9	5.59	115.89	113.10
36	1	3330	A	C5-N7-C8	5.59	106.69	103.90
1	6	574	G	C8-N9-C4	5.59	108.63	106.40
1	6	1207	C	C6-N1-C2	5.59	122.53	120.30
36	5	78	U	N3-C4-O4	5.59	123.31	119.40
36	5	953	G	C8-N9-C4	5.59	108.64	106.40
36	5	1186	G	C6-C5-N7	-5.59	127.05	130.40
36	5	1513	G	C6-C5-N7	-5.59	127.05	130.40
36	5	2848	G	C5-C6-N1	-5.59	108.71	111.50
36	5	2856	G	N7-C8-N9	5.59	115.89	113.10
36	5	3056	U	O4'-C1'-N1	-5.59	103.73	108.20
38	8	156	U	C2-N1-C1'	5.59	124.41	117.70
36	1	281	G	N7-C8-N9	5.58	115.89	113.10
36	1	1345	G	C4-C5-N7	5.58	113.03	110.80
36	1	2275	A	C5-N7-C8	-5.58	101.11	103.90
36	1	2299	A	OP1-P-O3'	5.58	117.49	105.20
36	1	2348	A	OP2-P-O3'	5.58	117.49	105.20
1	6	398	G	C2-N3-C4	5.58	114.69	111.90
1	6	1565	C	N1-C2-N3	5.58	123.11	119.20
36	5	421	G	C6-C5-N7	-5.58	127.05	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1871	U	C2-N1-C1'	5.58	124.40	117.70
36	5	2679	A	C5-N7-C8	5.58	106.69	103.90
1	2	441	A	N1-C6-N6	-5.58	115.25	118.60
36	1	685	G	N3-C2-N2	5.58	123.81	119.90
36	1	1163	A	C8-N9-C4	5.58	108.03	105.80
36	1	1188	U	N3-C2-O2	-5.58	118.29	122.20
36	1	1495	U	N1-C2-N3	5.58	118.25	114.90
36	1	2371	G	N1-C6-O6	-5.58	116.55	119.90
36	1	2634	U	C6-N1-C1'	-5.58	113.38	121.20
36	1	2821	C	N3-C4-N4	5.58	121.91	118.00
1	6	1550	A	C4-C5-N7	5.58	113.49	110.70
36	5	971	G	OP2-P-O3'	5.58	117.48	105.20
36	5	1239	C	O5'-P-OP2	-5.58	100.67	105.70
36	5	2663	G	C6-N1-C2	-5.58	121.75	125.10
36	5	3301	U	N3-C2-O2	5.58	126.11	122.20
37	7	22	A	N9-C4-C5	5.58	108.03	105.80
37	7	111	U	N3-C4-C5	-5.58	111.25	114.60
38	8	73	U	N3-C2-O2	-5.58	118.29	122.20
1	2	993	A	C4-C5-N7	5.58	113.49	110.70
36	1	80	G	C5-C6-N1	5.58	114.29	111.50
36	1	209	A	N1-C2-N3	5.58	132.09	129.30
36	1	676	G	C4-C5-C6	5.58	122.15	118.80
36	1	722	G	C4-N9-C1'	5.58	133.76	126.50
36	1	926	A	C4-C5-C6	-5.58	114.21	117.00
36	1	2952	G	N3-C4-N9	-5.58	122.65	126.00
1	6	87	C	C6-N1-C2	-5.58	118.07	120.30
36	5	638	C	N3-C4-C5	-5.58	119.67	121.90
36	5	1186	G	C4-C5-N7	5.58	113.03	110.80
36	5	2248	C	N3-C2-O2	5.58	125.81	121.90
36	5	2296	A	N7-C8-N9	-5.58	111.01	113.80
1	2	95	G	C5-C6-O6	5.58	131.95	128.60
1	2	598	U	C6-N1-C2	-5.58	117.65	121.00
1	2	807	A	C5-C6-N6	-5.58	119.24	123.70
1	2	1209	C	N3-C4-C5	5.58	124.13	121.90
36	1	2284	C	C2-N3-C4	5.58	122.69	119.90
36	1	2374	C	C5-C6-N1	-5.58	118.21	121.00
36	5	80	G	OP2-P-O3'	5.58	117.48	105.20
36	5	217	U	C5-C4-O4	5.58	129.25	125.90
36	5	232	G	C4-N9-C1'	-5.58	119.25	126.50
36	5	726	G	C4-N9-C1'	5.58	133.75	126.50
36	5	954	U	C5-C4-O4	5.58	129.25	125.90
36	5	1896	A	C4-C5-C6	-5.58	114.21	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2609	A	O5'-P-OP2	-5.58	100.68	105.70
36	5	2883	U	C5-C4-O4	5.58	129.25	125.90
36	1	323	A	N1-C6-N6	-5.58	115.25	118.60
36	1	897	U	O5'-P-OP2	-5.58	100.68	105.70
36	1	1511	U	C5-C4-O4	5.58	129.25	125.90
36	1	2199	G	N1-C2-N2	-5.58	111.18	116.20
36	1	2276	G	C4-C5-N7	-5.58	108.57	110.80
36	1	2424	A	OP1-P-O3'	5.58	117.47	105.20
37	3	72	A	O5'-P-OP1	-5.58	100.68	105.70
38	4	104	A	C8-N9-C4	-5.58	103.57	105.80
1	6	39	A	C4-C5-C6	5.58	119.79	117.00
36	5	1370	G	N3-C2-N2	-5.58	116.00	119.90
36	5	2356	A	N1-C6-N6	-5.58	115.25	118.60
36	5	2401	A	C6-N1-C2	5.58	121.95	118.60
36	5	2411	U	N1-C2-O2	-5.58	118.89	122.80
36	5	3061	G	N9-C1'-C2'	-5.58	105.86	112.00
36	1	1367	G	C6-C5-N7	-5.58	127.05	130.40
36	1	2185	G	C2-N3-C4	-5.58	109.11	111.90
1	6	34	G	C5-C6-O6	5.58	131.95	128.60
1	6	1409	G	N1-C6-O6	5.58	123.25	119.90
36	5	240	U	C5-C4-O4	5.58	129.25	125.90
36	5	295	A	O4'-C1'-N9	-5.58	103.74	108.20
36	5	917	A	N3-C4-C5	5.58	130.70	126.80
36	5	2835	U	C4-C5-C6	5.58	123.05	119.70
38	8	57	C	C5-C6-N1	-5.58	118.21	121.00
1	2	825	U	C6-N1-C2	-5.58	117.66	121.00
36	1	108	A	C5-C6-N6	-5.58	119.24	123.70
36	1	657	A	N7-C8-N9	5.58	116.59	113.80
36	1	1453	A	C8-N9-C1'	-5.58	117.67	127.70
36	1	2713	U	C5-C4-O4	-5.58	122.55	125.90
1	6	413	U	N1-C2-N3	5.58	118.25	114.90
1	6	1136	U	C6-N1-C2	5.58	124.34	121.00
36	5	2801	A	C4-C5-N7	5.58	113.49	110.70
36	5	3173	G	O5'-P-OP2	-5.58	100.68	105.70
56	n0	128	GLU	OE1-CD-OE2	-5.58	116.61	123.30
1	2	100	A	C6-N1-C2	-5.57	115.25	118.60
36	1	6	A	N7-C8-N9	5.57	116.59	113.80
36	1	339	C	N3-C2-O2	-5.57	118.00	121.90
36	1	2954	U	N1-C2-N3	-5.57	111.56	114.90
54	M8	159	LYS	CD-CE-NZ	5.57	124.52	111.70
1	6	565	C	C5-C4-N4	-5.57	116.30	120.20
1	6	1601	G	C5-C6-N1	5.57	114.29	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1727	G	N7-C8-N9	-5.57	110.31	113.10
36	5	20	A	C6-N1-C2	-5.57	115.26	118.60
36	5	192	C	N1-C2-O2	5.57	122.24	118.90
36	5	355	A	C2-N3-C4	-5.57	107.81	110.60
36	5	1426	C	C5-C6-N1	-5.57	118.21	121.00
36	5	1476	G	C8-N9-C1'	-5.57	119.75	127.00
36	5	2899	C	N3-C2-O2	-5.57	118.00	121.90
36	5	2951	G	C5-N7-C8	-5.57	101.51	104.30
37	7	15	C	C5-C6-N1	5.57	123.79	121.00
61	n5	40	LEU	CB-CG-CD2	5.57	120.47	111.00
36	1	366	A	N1-C2-N3	5.57	132.09	129.30
36	1	1180	A	C6-C5-N7	5.57	136.20	132.30
36	1	3259	U	N3-C4-C5	-5.57	111.26	114.60
38	4	13	A	C8-N9-C4	-5.57	103.57	105.80
53	M7	3	ARG	NE-CZ-NH2	-5.57	117.51	120.30
1	6	251	A	C6-C5-N7	-5.57	128.40	132.30
1	6	454	U	C5-C6-N1	-5.57	119.91	122.70
1	6	1139	A	C6-C5-N7	-5.57	128.40	132.30
1	6	1464	G	OP2-P-O3'	5.57	117.46	105.20
36	5	1766	G	N7-C8-N9	5.57	115.89	113.10
36	5	2155	G	C4-N9-C1'	5.57	133.74	126.50
36	5	3143	C	C2-N3-C4	5.57	122.69	119.90
1	2	372	G	N1-C2-N2	-5.57	111.19	116.20
1	2	994	G	N7-C8-N9	-5.57	110.31	113.10
36	1	806	A	N3-C4-N9	-5.57	122.94	127.40
36	1	1304	A	C6-C5-N7	5.57	136.20	132.30
36	1	1646	G	C4-N9-C1'	-5.57	119.26	126.50
36	1	2127	U	OP1-P-O3'	5.57	117.45	105.20
36	1	2437	G	N1-C6-O6	5.57	123.24	119.90
72	O6	45	ARG	NE-CZ-NH1	5.57	123.08	120.30
1	6	623	A	N1-C6-N6	-5.57	115.26	118.60
36	5	872	U	C5-C4-O4	-5.57	122.56	125.90
37	7	2	G	N1-C6-O6	-5.57	116.56	119.90
36	1	44	U	C4-C5-C6	5.57	123.04	119.70
36	1	192	C	N3-C2-O2	-5.57	118.00	121.90
36	1	709	A	N3-C4-N9	5.57	131.85	127.40
36	1	792	G	C8-N9-C4	-5.57	104.17	106.40
36	1	1656	A	N1-C2-N3	5.57	132.08	129.30
36	1	3009	G	N3-C4-C5	5.57	131.38	128.60
38	4	9	A	O5'-P-OP2	-5.57	100.69	105.70
40	L3	232	ARG	NE-CZ-NH1	-5.57	117.52	120.30
1	6	423	G	C8-N9-C4	-5.57	104.17	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	354	U	C5-C4-O4	-5.57	122.56	125.90
36	5	1040	A	C2-N3-C4	-5.57	107.81	110.60
36	5	1191	U	N1-C2-N3	5.57	118.24	114.90
36	5	1193	A	C5-C6-N1	-5.57	114.92	117.70
36	5	3161	C	C6-N1-C2	-5.57	118.07	120.30
36	5	3367	C	N3-C4-C5	5.57	124.13	121.90
1	2	36	C	N3-C2-O2	5.57	125.80	121.90
1	2	468	A	N9-C4-C5	-5.57	103.57	105.80
1	2	1245	G	N1-C6-O6	-5.57	116.56	119.90
1	2	1670	G	N1-C2-N3	5.57	127.24	123.90
36	1	216	G	C4-C5-N7	5.57	113.03	110.80
36	1	589	A	C6-C5-N7	5.57	136.20	132.30
36	1	923	C	N1-C2-O2	5.57	122.24	118.90
36	1	1408	G	N7-C8-N9	5.57	115.88	113.10
36	1	1850	A	C8-N9-C4	-5.57	103.57	105.80
36	1	2960	C	N3-C4-N4	-5.57	114.10	118.00
36	1	3055	U	O4'-C1'-N1	-5.57	103.75	108.20
38	4	16	G	C4-C5-N7	5.57	113.03	110.80
1	6	160	C	C4-C5-C6	-5.57	114.62	117.40
1	6	297	U	N3-C2-O2	-5.57	118.30	122.20
1	6	1036	A	C2-N3-C4	-5.57	107.82	110.60
36	5	234	G	C8-N9-C4	-5.57	104.17	106.40
36	5	297	G	C4-C5-N7	5.57	113.03	110.80
36	5	1295	G	N3-C4-N9	5.57	129.34	126.00
36	5	1300	G	C6-C5-N7	-5.57	127.06	130.40
36	5	1665	C	OP1-P-O3'	-5.57	92.95	105.20
36	5	2755	C	C5-C4-N4	-5.57	116.30	120.20
36	5	2772	C	N3-C4-C5	-5.57	119.67	121.90
36	5	3227	A	C5-C6-N1	-5.57	114.92	117.70
1	2	1201	G	C5-C6-O6	5.57	131.94	128.60
36	1	53	G	N3-C4-C5	-5.57	125.82	128.60
36	1	351	A	N3-C4-C5	5.57	130.70	126.80
36	1	804	C	C2-N3-C4	-5.57	117.12	119.90
36	1	1255	C	C2-N1-C1'	5.57	124.92	118.80
36	1	2113	A	C4-C5-N7	-5.57	107.92	110.70
36	1	2626	A	N9-C4-C5	5.57	108.03	105.80
36	1	3080	G	C8-N9-C4	5.57	108.63	106.40
36	1	3093	C	N1-C2-N3	5.57	123.10	119.20
37	3	89	G	O5'-P-OP2	-5.57	100.69	105.70
1	6	175	G	C4-C5-N7	5.57	113.03	110.80
1	6	418	G	OP1-P-O3'	5.57	117.44	105.20
1	6	992	A	C5-N7-C8	-5.57	101.12	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1243	G	C8-N9-C4	-5.57	104.17	106.40
36	5	771	A	N7-C8-N9	-5.57	111.02	113.80
36	5	1146	C	N1-C2-N3	-5.57	115.30	119.20
36	5	2307	G	OP2-P-O3'	5.57	117.44	105.20
36	5	3028	G	C6-C5-N7	-5.57	127.06	130.40
36	5	3035	A	N1-C2-N3	5.57	132.08	129.30
36	5	3138	U	N1-C2-O2	-5.57	118.91	122.80
1	2	191	C	O4'-C1'-N1	5.56	112.65	108.20
36	1	1355	A	P-O3'-C3'	5.56	126.38	119.70
36	1	1365	G	C6-C5-N7	-5.56	127.06	130.40
1	6	1101	G	N1-C2-N2	-5.56	111.19	116.20
36	5	2325	G	C4-C5-C6	5.56	122.14	118.80
36	5	2359	C	OP1-P-O3'	5.56	117.44	105.20
1	2	320	U	C4-C5-C6	-5.56	116.36	119.70
1	2	1279	C	N3-C2-O2	-5.56	118.01	121.90
1	2	1452	U	C6-N1-C2	-5.56	117.66	121.00
36	1	351	A	C5-C6-N1	-5.56	114.92	117.70
36	1	517	G	N9-C4-C5	5.56	107.62	105.40
36	1	625	G	N3-C2-N2	-5.56	116.01	119.90
36	1	684	G	C5-C6-O6	-5.56	125.26	128.60
36	1	1773	C	C2-N1-C1'	-5.56	112.68	118.80
36	1	1908	A	C8-N9-C4	-5.56	103.58	105.80
36	1	2167	A	OP2-P-O3'	5.56	117.44	105.20
36	1	2337	C	N3-C4-C5	5.56	124.12	121.90
36	1	2403	G	N3-C4-N9	5.56	129.34	126.00
36	1	2883	U	OP1-P-OP2	-5.56	111.26	119.60
36	1	3056	U	N1-C2-O2	-5.56	118.91	122.80
36	1	3143	C	N3-C2-O2	-5.56	118.01	121.90
1	6	1025	A	O5'-P-OP2	5.56	117.37	110.70
1	6	1343	U	C6-N1-C2	5.56	124.34	121.00
1	6	1598	U	C5-C4-O4	-5.56	122.56	125.90
1	6	1786	G	N9-C4-C5	5.56	107.62	105.40
36	5	1496	C	N1-C2-O2	5.56	122.24	118.90
36	5	1875	G	C2-N3-C4	-5.56	109.12	111.90
36	5	2986	U	C4-C5-C6	5.56	123.04	119.70
36	5	3195	U	N1-C2-N3	-5.56	111.56	114.90
36	5	3212	C	C6-N1-C2	5.56	122.53	120.30
36	1	1149	G	C2-N3-C4	-5.56	109.12	111.90
36	1	1295	G	N3-C4-C5	-5.56	125.82	128.60
36	1	1353	U	N1-C2-O2	5.56	126.69	122.80
1	6	930	A	N9-C4-C5	5.56	108.02	105.80
1	6	1024	U	N1-C2-O2	-5.56	118.91	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1536	G	N9-C4-C5	-5.56	103.18	105.40
36	5	634	C	C6-N1-C2	-5.56	118.08	120.30
36	5	1084	A	C5-C6-N1	5.56	120.48	117.70
36	5	1584	U	C6-N1-C2	5.56	124.34	121.00
36	5	2289	U	N3-C2-O2	-5.56	118.31	122.20
36	5	2800	G	N3-C4-C5	-5.56	125.82	128.60
36	5	2872	A	C4-N9-C1'	-5.56	116.29	126.30
38	8	7	U	C4-C5-C6	5.56	123.04	119.70
1	2	250	C	C2-N1-C1'	5.56	124.92	118.80
1	2	1539	G	C4-C5-N7	5.56	113.02	110.80
36	1	219	A	OP1-P-OP2	5.56	127.94	119.60
36	1	317	A	C5-C6-N1	5.56	120.48	117.70
36	1	583	G	C5-C6-N1	5.56	114.28	111.50
36	1	1402	C	C2-N3-C4	-5.56	117.12	119.90
36	1	2394	G	OP1-P-OP2	5.56	127.94	119.60
36	1	2940	A	O5'-P-OP2	-5.56	100.70	105.70
36	1	3307	A	C4-C5-N7	5.56	113.48	110.70
36	5	406	G	N1-C2-N3	5.56	127.23	123.90
36	5	1178	G	N1-C2-N2	-5.56	111.20	116.20
36	5	1879	A	C2-N3-C4	-5.56	107.82	110.60
36	5	1897	G	C4-C5-C6	5.56	122.14	118.80
36	5	2293	C	N3-C4-N4	5.56	121.89	118.00
36	5	3249	C	C6-N1-C2	5.56	122.52	120.30
38	8	109	A	O5'-P-OP1	5.56	117.37	110.70
40	l3	19	ARG	NE-CZ-NH1	5.56	123.08	120.30
36	1	924	G	C2-N3-C4	5.56	114.68	111.90
36	1	1368	U	C6-N1-C1'	-5.56	113.42	121.20
36	1	1524	A	C6-C5-N7	5.56	136.19	132.30
36	1	2997	G	N7-C8-N9	5.56	115.88	113.10
36	1	3175	U	N3-C2-O2	-5.56	118.31	122.20
1	6	29	U	C5-C6-N1	-5.56	119.92	122.70
1	6	103	A	C8-N9-C4	-5.56	103.58	105.80
1	6	1243	G	N3-C4-N9	5.56	129.33	126.00
36	5	879	U	O5'-P-OP2	-5.56	100.70	105.70
36	5	2160	G	N3-C2-N2	-5.56	116.01	119.90
36	5	2208	A	N1-C6-N6	5.56	121.93	118.60
36	5	2556	C	C6-N1-C2	-5.56	118.08	120.30
36	5	2666	C	C6-N1-C1'	-5.56	114.13	120.80
36	5	2741	C	O5'-P-OP2	5.56	117.37	110.70
38	8	116	G	C4-N9-C1'	5.56	133.72	126.50
38	8	136	G	O5'-P-OP1	5.56	117.37	110.70
1	2	1245	G	C5-C6-N1	5.56	114.28	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1438	U	C4-C5-C6	5.56	123.03	119.70
36	1	2699	G	N3-C2-N2	-5.56	116.01	119.90
1	6	1650	U	O5'-P-OP1	5.56	117.37	110.70
17	c5	43	ARG	NE-CZ-NH1	5.56	123.08	120.30
36	5	699	A	N7-C8-N9	5.56	116.58	113.80
36	5	2710	C	C5-C4-N4	-5.56	116.31	120.20
37	7	54	U	C2-N1-C1'	-5.56	111.03	117.70
1	2	30	G	N1-C6-O6	5.55	123.23	119.90
1	2	993	A	C8-N9-C4	-5.55	103.58	105.80
1	2	1462	G	C6-C5-N7	5.55	133.73	130.40
1	2	1583	A	C5-C6-N6	5.55	128.14	123.70
36	1	31	C	N3-C4-C5	-5.55	119.68	121.90
36	1	1542	G	N1-C2-N3	5.55	127.23	123.90
36	1	1634	G	C8-N9-C4	-5.55	104.18	106.40
36	1	1656	A	N7-C8-N9	-5.55	111.02	113.80
36	1	2120	A	C5-N7-C8	5.55	106.68	103.90
36	1	2167	A	C6-C5-N7	-5.55	128.41	132.30
1	6	1008	G	C4-C5-N7	5.55	113.02	110.80
36	5	735	A	N1-C6-N6	5.55	121.93	118.60
36	5	1500	G	C5-C6-O6	-5.55	125.27	128.60
36	5	3246	G	OP1-P-O3'	5.55	117.42	105.20
36	1	209	A	C5-C6-N1	-5.55	114.92	117.70
36	1	506	U	N3-C4-C5	-5.55	111.27	114.60
36	1	1617	G	C2-N3-C4	-5.55	109.12	111.90
36	5	1102	A	N3-C4-C5	-5.55	122.91	126.80
36	5	1527	C	C5-C6-N1	-5.55	118.22	121.00
36	5	2524	A	N9-C1'-C2'	5.55	121.22	114.00
36	5	2756	C	C6-N1-C1'	-5.55	114.14	120.80
1	2	870	C	N1-C2-O2	-5.55	115.57	118.90
36	1	495	G	C4-N9-C1'	-5.55	119.28	126.50
36	1	1160	C	C2-N3-C4	5.55	122.68	119.90
36	1	3305	A	C5-C6-N1	5.55	120.48	117.70
1	6	158	U	N3-C4-O4	5.55	123.29	119.40
1	6	1041	G	N1-C6-O6	5.55	123.23	119.90
1	6	1641	C	C6-N1-C2	5.55	122.52	120.30
1	6	1768	G	N3-C2-N2	-5.55	116.01	119.90
36	5	55	G	N1-C6-O6	5.55	123.23	119.90
36	5	394	G	OP1-P-OP2	5.55	127.93	119.60
36	5	650	C	C6-N1-C1'	5.55	127.46	120.80
36	5	746	A	OP2-P-O3'	5.55	117.41	105.20
36	5	835	G	C4-C5-N7	-5.55	108.58	110.80
36	5	988	U	C2-N3-C4	-5.55	123.67	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1155	C	C5-C4-N4	-5.55	116.31	120.20
36	5	1175	C	C6-N1-C2	-5.55	118.08	120.30
36	5	1465	A	C5-N7-C8	-5.55	101.12	103.90
36	5	1620	U	C2-N1-C1'	5.55	124.36	117.70
36	5	1835	A	O5'-P-OP1	-5.55	100.70	105.70
36	5	2388	U	C5-C4-O4	-5.55	122.57	125.90
36	5	3061	G	N7-C8-N9	-5.55	110.33	113.10
40	l3	328	ILE	C-N-CD	5.55	140.06	128.40
69	o3	45	LEU	CA-CB-CG	-5.55	102.53	115.30
1	2	429	G	C6-C5-N7	-5.55	127.07	130.40
1	2	747	C	N1-C2-O2	5.55	122.23	118.90
1	2	1768	G	N7-C8-N9	5.55	115.88	113.10
36	1	399	A	OP1-P-OP2	-5.55	111.28	119.60
36	1	407	A	O5'-P-OP1	-5.55	100.71	105.70
36	1	638	C	C2-N3-C4	-5.55	117.12	119.90
36	1	1367	G	C4-N9-C1'	5.55	133.72	126.50
38	4	2	A	N7-C8-N9	5.55	116.58	113.80
1	6	408	C	C5-C6-N1	-5.55	118.22	121.00
1	6	1431	C	C6-N1-C2	5.55	122.52	120.30
1	6	1513	G	C8-N9-C4	-5.55	104.18	106.40
36	5	717	C	N1-C2-O2	5.55	122.23	118.90
36	5	1211	U	C2-N1-C1'	-5.55	111.04	117.70
36	5	1585	C	C5-C6-N1	5.55	123.78	121.00
36	5	2877	G	C6-C5-N7	-5.55	127.07	130.40
36	5	2995	A	N3-C4-C5	5.55	130.68	126.80
68	o2	4	LEU	C-N-CD	5.55	140.06	128.40
1	2	1179	G	C5-C6-N1	5.55	114.27	111.50
36	1	329	U	C5-C6-N1	-5.55	119.93	122.70
36	1	613	G	N7-C8-N9	5.55	115.87	113.10
36	1	1906	G	C6-C5-N7	-5.55	127.07	130.40
36	1	3152	U	N3-C4-O4	-5.55	115.52	119.40
1	6	119	A	C5-C6-N1	-5.55	114.93	117.70
1	6	758	U	N1-C2-N3	5.55	118.23	114.90
1	6	1279	C	O5'-P-OP2	-5.55	100.71	105.70
1	6	1641	C	C5-C6-N1	-5.55	118.23	121.00
36	5	742	G	N3-C4-N9	5.55	129.33	126.00
1	2	1782	A	N9-C4-C5	5.55	108.02	105.80
36	1	689	U	C4-C5-C6	-5.55	116.37	119.70
36	1	1085	A	OP2-P-O3'	5.55	117.40	105.20
36	1	1149	G	C8-N9-C4	-5.55	104.18	106.40
36	1	1305	U	OP2-P-O3'	5.55	117.40	105.20
36	1	1453	A	C4-N9-C1'	5.55	136.28	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1716	U	OP1-P-O3'	5.55	117.40	105.20
36	1	1933	A	C5-N7-C8	-5.55	101.13	103.90
36	1	2993	G	C6-C5-N7	-5.55	127.07	130.40
1	6	50	C	O5'-P-OP2	5.55	117.36	110.70
1	6	372	G	C4-C5-N7	-5.55	108.58	110.80
1	6	948	G	C4-C5-N7	5.55	113.02	110.80
1	6	1696	G	OP1-P-O3'	5.55	117.40	105.20
36	5	1212	A	C6-C5-N7	-5.55	128.42	132.30
36	5	1852	G	N7-C8-N9	5.55	115.87	113.10
36	5	2134	G	C8-N9-C1'	-5.55	119.79	127.00
36	5	3012	A	C6-N1-C2	-5.55	115.27	118.60
36	5	3189	G	C6-N1-C2	-5.55	121.77	125.10
36	1	3137	C	P-O3'-C3'	-5.54	113.05	119.70
1	6	610	G	O4'-C1'-N9	5.54	112.64	108.20
1	6	759	U	N1-C2-O2	5.54	126.68	122.80
36	5	439	C	C4-C5-C6	5.54	120.17	117.40
36	5	1159	A	OP2-P-O3'	5.54	117.40	105.20
36	5	1598	G	N3-C2-N2	5.54	123.78	119.90
36	5	1714	A	C2-N3-C4	-5.54	107.83	110.60
36	5	3296	A	O4'-C1'-N9	-5.54	103.76	108.20
38	8	107	G	C4-N9-C1'	5.54	133.71	126.50
1	2	756	A	C5-N7-C8	-5.54	101.13	103.90
1	2	1412	G	C4-N9-C1'	-5.54	119.29	126.50
36	1	315	C	C6-N1-C2	-5.54	118.08	120.30
36	1	586	C	C5-C4-N4	-5.54	116.32	120.20
36	1	1559	A	C5-N7-C8	-5.54	101.13	103.90
36	1	1701	C	C6-N1-C2	5.54	122.52	120.30
36	1	1804	A	N1-C2-N3	5.54	132.07	129.30
36	1	2270	A	C5-N7-C8	-5.54	101.13	103.90
36	1	2714	G	C5-N7-C8	-5.54	101.53	104.30
36	1	2930	A	N3-C4-N9	5.54	131.84	127.40
36	1	2958	A	OP2-P-O3'	5.54	117.40	105.20
57	N1	12	ARG	NE-CZ-NH1	-5.54	117.53	120.30
1	6	596	C	N3-C4-C5	5.54	124.12	121.90
1	6	1183	A	N1-C2-N3	5.54	132.07	129.30
1	6	1200	G	C5-C6-N1	-5.54	108.73	111.50
1	6	1424	A	OP1-P-O3'	5.54	117.40	105.20
1	6	1514	U	C5-C6-N1	-5.54	119.93	122.70
36	5	211	A	N7-C8-N9	-5.54	111.03	113.80
36	5	588	G	C6-C5-N7	-5.54	127.07	130.40
36	5	635	G	O5'-P-OP1	-5.54	100.71	105.70
36	5	849	C	C6-N1-C2	5.54	122.52	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	958	C	OP2-P-O3'	5.54	117.40	105.20
36	5	1064	A	C5-N7-C8	-5.54	101.13	103.90
36	5	1079	A	OP1-P-OP2	5.54	127.92	119.60
36	5	1160	C	C5-C6-N1	-5.54	118.23	121.00
36	5	1323	G	C4-C5-C6	5.54	122.13	118.80
36	5	2208	A	C8-N9-C4	-5.54	103.58	105.80
36	5	3376	A	C4-C5-C6	5.54	119.77	117.00
1	2	399	A	C5-C6-N6	5.54	128.13	123.70
1	2	1033	C	N3-C2-O2	-5.54	118.02	121.90
1	2	1135	U	C2-N1-C1'	-5.54	111.05	117.70
36	1	55	G	N1-C6-O6	5.54	123.22	119.90
36	1	111	C	C5-C6-N1	5.54	123.77	121.00
36	1	294	U	C5-C6-N1	5.54	125.47	122.70
36	1	856	G	N9-C4-C5	5.54	107.62	105.40
36	1	890	C	C2-N1-C1'	5.54	124.90	118.80
36	1	994	G	C5-C6-N1	5.54	114.27	111.50
36	1	1326	A	C2-N3-C4	5.54	113.37	110.60
36	1	2700	G	N9-C4-C5	-5.54	103.18	105.40
36	1	2823	G	N9-C4-C5	5.54	107.62	105.40
36	1	2859	U	OP2-P-O3'	5.54	117.39	105.20
36	1	3006	A	N3-C4-N9	-5.54	122.97	127.40
38	4	82	U	C6-N1-C2	-5.54	117.67	121.00
1	6	57	G	N3-C4-N9	5.54	129.32	126.00
1	6	865	A	C6-N1-C2	-5.54	115.28	118.60
36	5	182	U	C6-N1-C2	-5.54	117.67	121.00
36	5	209	A	C6-N1-C2	-5.54	115.28	118.60
36	5	351	A	N1-C2-N3	-5.54	126.53	129.30
36	5	1306	G	O5'-P-OP2	-5.54	100.71	105.70
36	5	3030	G	C6-C5-N7	5.54	133.72	130.40
36	1	1309	U	N1-C2-N3	5.54	118.22	114.90
36	1	1315	U	OP1-P-O3'	5.54	117.39	105.20
62	N6	111	LEU	CA-CB-CG	-5.54	102.56	115.30
1	6	611	U	OP1-P-OP2	-5.54	111.29	119.60
1	6	902	G	C5-C6-N1	-5.54	108.73	111.50
1	6	969	C	N3-C4-N4	5.54	121.88	118.00
1	6	1192	C	C6-N1-C2	-5.54	118.08	120.30
36	5	1903	U	N3-C4-O4	5.54	123.28	119.40
36	5	2208	A	C5-N7-C8	-5.54	101.13	103.90
36	5	3191	G	N3-C4-C5	5.54	131.37	128.60
1	2	1657	U	OP2-P-O3'	5.54	117.39	105.20
36	1	209	A	N1-C6-N6	-5.54	115.28	118.60
36	1	700	C	N1-C2-O2	-5.54	115.58	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	717	C	O5'-P-OP2	-5.54	100.72	105.70
36	1	857	G	N3-C2-N2	-5.54	116.02	119.90
36	1	1438	U	C2-N3-C4	-5.54	123.68	127.00
36	1	1500	G	C4-N9-C1'	-5.54	119.30	126.50
36	1	3112	G	N3-C4-N9	5.54	129.32	126.00
36	1	3220	G	N3-C4-C5	-5.54	125.83	128.60
36	1	3295	A	N9-C4-C5	5.54	108.02	105.80
38	4	101	U	N3-C2-O2	-5.54	118.32	122.20
1	6	553	G	C6-C5-N7	-5.54	127.08	130.40
1	6	746	A	N1-C6-N6	5.54	121.92	118.60
36	5	430	U	OP2-P-O3'	5.54	117.38	105.20
36	5	705	A	OP1-P-O3'	5.54	117.39	105.20
36	5	864	G	C8-N9-C1'	-5.54	119.80	127.00
36	5	916	G	OP2-P-O3'	5.54	117.39	105.20
36	5	1260	A	N7-C8-N9	5.54	116.57	113.80
36	5	2419	A	N9-C4-C5	5.54	108.02	105.80
36	5	2676	A	C8-N9-C4	-5.54	103.58	105.80
36	5	3054	U	N3-C4-C5	-5.54	111.28	114.60
36	5	3259	U	C4-C5-C6	-5.54	116.38	119.70
36	5	3314	A	C5-C6-N6	-5.54	119.27	123.70
36	5	3335	A	C6-C5-N7	-5.54	128.42	132.30
1	2	586	G	C5-C6-O6	-5.54	125.28	128.60
1	2	1568	C	P-O3'-C3'	5.54	126.34	119.70
36	1	1310	G	C5-N7-C8	-5.54	101.53	104.30
36	1	1928	G	O5'-P-OP2	-5.54	100.72	105.70
36	1	2639	G	C8-N9-C1'	5.54	134.20	127.00
1	6	1282	U	N3-C4-C5	-5.54	111.28	114.60
1	6	1621	U	C6-N1-C2	5.54	124.32	121.00
36	5	1737	U	C5-C4-O4	-5.54	122.58	125.90
36	5	3313	U	N3-C2-O2	5.54	126.08	122.20
1	2	686	C	C6-N1-C2	-5.54	118.09	120.30
1	2	1561	U	N3-C2-O2	-5.54	118.33	122.20
36	1	329	U	N3-C2-O2	-5.54	118.33	122.20
36	1	1005	G	N9-C4-C5	5.54	107.61	105.40
36	1	1149	G	N3-C4-C5	-5.54	125.83	128.60
36	1	1577	G	N3-C4-C5	-5.54	125.83	128.60
1	6	911	U	N1-C2-O2	5.54	126.67	122.80
1	6	1375	A	C8-N9-C4	5.54	108.01	105.80
36	5	266	A	C6-C5-N7	-5.54	128.43	132.30
36	5	1045	C	O5'-P-OP2	5.54	117.34	110.70
36	5	1064	A	N7-C8-N9	5.54	116.57	113.80
36	5	2166	A	N3-C4-C5	5.54	130.68	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2277	C	N1-C2-N3	5.54	123.08	119.20
36	5	2347	U	N1-C2-O2	5.54	126.67	122.80
36	5	2349	U	OP1-P-O3'	5.54	117.38	105.20
36	5	2399	A	C8-N9-C4	-5.54	103.59	105.80
36	5	2709	C	C5-C4-N4	-5.54	116.33	120.20
36	5	2996	U	C6-N1-C2	5.54	124.32	121.00
62	n6	57	LEU	CA-CB-CG	5.54	128.03	115.30
1	2	1787	C	C6-N1-C2	5.53	122.51	120.30
36	1	2727	A	O5'-P-OP1	-5.53	100.72	105.70
47	M0	139	ARG	NE-CZ-NH1	5.53	123.07	120.30
1	6	1763	A	N1-C6-N6	-5.53	115.28	118.60
36	5	407	A	C6-N1-C2	-5.53	115.28	118.60
36	5	418	A	C2-N3-C4	5.53	113.37	110.60
36	5	1681	U	N3-C4-C5	-5.53	111.28	114.60
36	5	1741	A	N1-C6-N6	-5.53	115.28	118.60
36	5	2375	G	C8-N9-C1'	5.53	134.19	127.00
36	5	3052	G	C4-C5-N7	5.53	113.01	110.80
36	5	3315	G	N3-C4-N9	5.53	129.32	126.00
36	1	703	G	N3-C4-C5	5.53	131.37	128.60
36	1	1897	G	C6-C5-N7	-5.53	127.08	130.40
1	6	1527	C	N3-C4-C5	5.53	124.11	121.90
1	6	1529	C	O5'-P-OP2	-5.53	100.72	105.70
36	5	2530	G	C6-C5-N7	-5.53	127.08	130.40
36	5	2640	A	C4-C5-N7	5.53	113.47	110.70
36	1	154	U	C2-N1-C1'	-5.53	111.06	117.70
36	1	731	U	N3-C4-O4	5.53	123.27	119.40
36	1	2556	C	C6-N1-C2	-5.53	118.09	120.30
36	1	2780	A	N9-C4-C5	-5.53	103.59	105.80
36	1	3179	U	C6-N1-C2	5.53	124.32	121.00
1	6	76	A	O4'-C1'-N9	5.53	112.62	108.20
1	6	313	U	N3-C2-O2	-5.53	118.33	122.20
36	5	324	A	C8-N9-C1'	-5.53	117.75	127.70
36	5	692	A	C5-N7-C8	-5.53	101.14	103.90
36	5	971	G	C8-N9-C4	5.53	108.61	106.40
36	5	1431	G	C5-C6-N1	5.53	114.27	111.50
36	5	1470	U	C5-C4-O4	-5.53	122.58	125.90
36	5	1603	A	C5-C6-N1	-5.53	114.93	117.70
36	5	1916	U	O5'-P-OP1	-5.53	100.72	105.70
36	5	2404	A	N1-C6-N6	-5.53	115.28	118.60
36	5	2441	A	N1-C6-N6	5.53	121.92	118.60
36	5	2917	G	P-O3'-C3'	5.53	126.34	119.70
38	8	2	A	C6-C5-N7	-5.53	128.43	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	793	A	N7-C8-N9	5.53	116.56	113.80
36	1	2279	A	O5'-P-OP2	-5.53	100.72	105.70
1	6	1782	A	C5-C6-N1	-5.53	114.94	117.70
36	5	55	G	C4-C5-C6	5.53	122.12	118.80
36	5	356	C	C4-C5-C6	5.53	120.17	117.40
36	5	858	A	C4-C5-N7	-5.53	107.94	110.70
1	2	436	A	N1-C6-N6	5.53	121.92	118.60
1	2	1422	A	N9-C4-C5	-5.53	103.59	105.80
1	2	1492	A	N1-C6-N6	-5.53	115.28	118.60
36	1	832	G	N9-C4-C5	-5.53	103.19	105.40
36	1	1104	G	OP2-P-O3'	5.53	117.36	105.20
36	1	1148	G	C5-C6-O6	-5.53	125.28	128.60
36	1	1371	G	O5'-P-OP1	5.53	117.33	110.70
36	1	2138	A	N3-C4-N9	5.53	131.82	127.40
36	1	2165	G	C4-C5-C6	5.53	122.12	118.80
36	1	2891	U	C5-C4-O4	-5.53	122.58	125.90
1	6	109	G	C5-C6-N1	-5.53	108.74	111.50
1	6	1647	U	O5'-P-OP2	-5.53	100.72	105.70
36	5	913	A	N9-C4-C5	5.53	108.01	105.80
36	5	2615	G	C2-N3-C4	-5.53	109.14	111.90
36	1	1245	A	C8-N9-C4	-5.53	103.59	105.80
36	1	1332	A	C6-C5-N7	-5.53	128.43	132.30
36	1	1528	G	N3-C4-N9	5.53	129.32	126.00
36	1	1547	G	C4-C5-C6	5.53	122.11	118.80
36	1	1672	U	C5-C4-O4	5.53	129.22	125.90
36	1	1775	G	C5-C6-O6	5.53	131.91	128.60
36	1	3102	G	OP1-P-O3'	5.53	117.36	105.20
36	1	3204	C	O5'-P-OP2	-5.53	100.73	105.70
36	1	3232	G	C6-C5-N7	-5.53	127.08	130.40
1	6	1177	C	C6-N1-C2	5.53	122.51	120.30
36	5	44	U	C6-N1-C2	-5.53	117.69	121.00
36	5	345	G	C5-C6-N1	-5.53	108.74	111.50
36	5	1615	C	C6-N1-C2	-5.53	118.09	120.30
36	5	3203	U	N3-C2-O2	-5.53	118.33	122.20
37	7	27	A	C8-N9-C4	-5.53	103.59	105.80
36	1	324	A	N7-C8-N9	5.52	116.56	113.80
36	1	904	A	N3-C4-N9	-5.52	122.98	127.40
36	1	2606	G	N1-C6-O6	-5.52	116.58	119.90
36	1	2849	C	C6-N1-C1'	5.52	127.43	120.80
36	1	3258	U	C5-C4-O4	-5.52	122.59	125.90
1	6	303	U	C5-C4-O4	5.52	129.21	125.90
1	6	549	G	C5-C6-N1	-5.52	108.74	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	195	U	N3-C4-O4	-5.52	115.53	119.40
36	5	996	A	OP1-P-O3'	-5.52	93.05	105.20
36	5	2667	A	O5'-P-OP1	-5.52	100.73	105.70
1	2	28	A	C5-C6-N1	5.52	120.46	117.70
1	2	951	A	C8-N9-C4	5.52	108.01	105.80
36	1	64	G	O5'-P-OP1	-5.52	100.73	105.70
36	1	293	C	C2-N1-C1'	-5.52	112.72	118.80
36	1	402	A	C8-N9-C4	-5.52	103.59	105.80
36	1	613	G	C6-C5-N7	-5.52	127.09	130.40
36	1	1828	A	C6-C5-N7	-5.52	128.43	132.30
36	1	2874	G	C6-C5-N7	-5.52	127.09	130.40
1	6	476	U	C6-N1-C2	-5.52	117.69	121.00
1	6	1298	U	C2-N1-C1'	5.52	124.33	117.70
1	6	1610	G	N3-C2-N2	5.52	123.77	119.90
1	6	1614	A	C5-C6-N6	-5.52	119.28	123.70
1	6	1624	C	N3-C4-N4	-5.52	114.13	118.00
36	5	192	C	C5-C6-N1	5.52	123.76	121.00
36	5	846	A	N1-C6-N6	-5.52	115.29	118.60
36	5	902	G	C4-N9-C1'	-5.52	119.32	126.50
36	5	1258	U	C6-N1-C2	-5.52	117.69	121.00
36	5	1372	C	N1-C2-O2	-5.52	115.59	118.90
36	5	2335	G	N3-C4-C5	-5.52	125.84	128.60
36	5	2723	U	N3-C2-O2	-5.52	118.33	122.20
1	2	1776	A	N1-C2-N3	-5.52	126.54	129.30
36	1	1541	G	C4-N9-C1'	5.52	133.68	126.50
36	1	3389	U	N1-C2-N3	-5.52	111.59	114.90
53	M7	73	GLY	N-CA-C	-5.52	99.30	113.10
1	6	1521	G	N3-C4-N9	5.52	129.31	126.00
36	5	1145	G	C8-N9-C1'	-5.52	119.82	127.00
36	5	3061	G	OP2-P-O3'	5.52	117.35	105.20
36	5	3389	U	OP1-P-OP2	-5.52	111.32	119.60
1	2	55	A	N9-C4-C5	-5.52	103.59	105.80
1	2	1085	G	N1-C2-N2	-5.52	111.23	116.20
36	1	2298	U	N3-C4-O4	-5.52	115.54	119.40
36	1	2514	U	O5'-P-OP1	-5.52	100.73	105.70
36	1	2895	G	C6-N1-C2	-5.52	121.79	125.10
36	1	3022	G	N1-C6-O6	5.52	123.21	119.90
44	L7	83	LEU	CA-CB-CG	5.52	127.99	115.30
51	M5	105	ARG	NE-CZ-NH1	-5.52	117.54	120.30
1	6	154	G	N9-C4-C5	-5.52	103.19	105.40
1	6	307	G	C8-N9-C1'	-5.52	119.83	127.00
1	6	776	G	C8-N9-C4	5.52	108.61	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	964	U	C5-C6-N1	-5.52	119.94	122.70
1	6	1058	U	C5-C4-O4	5.52	129.21	125.90
1	6	1178	G	C5-N7-C8	5.52	107.06	104.30
1	6	1367	G	N1-C6-O6	5.52	123.21	119.90
1	6	1591	C	N1-C2-O2	-5.52	115.59	118.90
1	6	1642	G	OP2-P-O3'	5.52	117.34	105.20
1	6	1671	A	N1-C6-N6	-5.52	115.29	118.60
36	5	786	A	C5-N7-C8	-5.52	101.14	103.90
36	5	1045	C	OP1-P-O3'	-5.52	93.06	105.20
36	5	1206	G	C4-N9-C1'	5.52	133.68	126.50
36	5	1380	G	C8-N9-C4	5.52	108.61	106.40
36	5	3042	U	N3-C4-C5	5.52	117.91	114.60
76	q0	121	LEU	CB-CG-CD2	-5.52	101.62	111.00
1	2	72	A	C8-N9-C4	5.52	108.01	105.80
1	2	597	G	C8-N9-C4	-5.52	104.19	106.40
1	2	1277	G	N9-C4-C5	5.52	107.61	105.40
1	2	1425	A	O5'-P-OP1	5.52	117.32	110.70
36	1	915	A	C5-N7-C8	-5.52	101.14	103.90
36	1	1385	C	C5-C4-N4	5.52	124.06	120.20
36	1	1400	G	N3-C4-C5	-5.52	125.84	128.60
36	1	1453	A	O5'-P-OP1	5.52	117.32	110.70
36	1	1841	A	N1-C6-N6	-5.52	115.29	118.60
36	1	2320	A	OP2-P-O3'	5.52	117.34	105.20
36	1	2810	C	C5-C4-N4	5.52	124.06	120.20
36	1	2872	A	N1-C6-N6	5.52	121.91	118.60
36	1	2944	U	O5'-P-OP1	-5.52	100.73	105.70
36	1	3225	C	N3-C2-O2	-5.52	118.04	121.90
37	3	121	U	N3-C2-O2	-5.52	118.34	122.20
1	6	1	U	C2-N1-C1'	5.52	124.32	117.70
1	6	335	U	C6-N1-C2	-5.52	117.69	121.00
1	6	1487	A	C4-C5-C6	5.52	119.76	117.00
36	5	85	A	C2-N3-C4	-5.52	107.84	110.60
36	5	590	G	N9-C4-C5	5.52	107.61	105.40
36	5	1920	U	C5-C4-O4	5.52	129.21	125.90
36	5	3015	G	N3-C4-N9	-5.52	122.69	126.00
36	5	3377	G	C4-C5-C6	-5.52	115.49	118.80
1	2	552	G	N7-C8-N9	5.52	115.86	113.10
36	1	787	G	C8-N9-C4	-5.52	104.19	106.40
36	1	836	A	N1-C6-N6	-5.52	115.29	118.60
36	1	1909	A	C2-N3-C4	-5.52	107.84	110.60
1	6	1278	G	C4-C5-N7	-5.52	108.59	110.80
36	5	802	C	N3-C4-N4	-5.52	114.14	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1332	A	N9-C4-C5	-5.52	103.59	105.80
36	5	1383	G	C8-N9-C4	-5.52	104.19	106.40
36	5	1901	A	C6-N1-C2	-5.52	115.29	118.60
36	5	2838	A	N7-C8-N9	-5.52	111.04	113.80
36	5	3037	U	N1-C2-O2	-5.52	118.94	122.80
1	2	77	U	O4'-C1'-N1	-5.51	103.79	108.20
1	2	514	G	C6-C5-N7	5.51	133.71	130.40
1	2	1596	C	C5-C6-N1	5.51	123.76	121.00
1	2	1750	A	C4-C5-C6	5.51	119.76	117.00
36	1	304	G	C8-N9-C4	-5.51	104.19	106.40
36	1	783	A	C8-N9-C4	5.51	108.01	105.80
36	1	1310	G	C5-C6-N1	5.51	114.26	111.50
36	1	1624	G	C6-C5-N7	-5.51	127.09	130.40
36	1	1893	A	N1-C6-N6	5.51	121.91	118.60
36	1	2159	U	C5-C4-O4	-5.51	122.59	125.90
36	1	2428	U	C5-C6-N1	-5.51	119.94	122.70
36	1	3042	U	C5-C4-O4	5.51	129.21	125.90
1	6	532	U	N1-C2-N3	5.51	118.21	114.90
1	6	1682	U	C5-C6-N1	5.51	125.46	122.70
36	5	54	C	N1-C2-N3	5.51	123.06	119.20
36	5	1055	A	C4-C5-N7	-5.51	107.94	110.70
36	5	1364	C	N1-C2-O2	5.51	122.21	118.90
36	5	2320	A	N1-C2-N3	5.51	132.06	129.30
36	5	2387	A	C8-N9-C4	-5.51	103.59	105.80
36	5	3089	C	N3-C4-C5	-5.51	119.69	121.90
36	1	655	C	C6-N1-C1'	-5.51	114.19	120.80
36	1	686	G	OP1-P-OP2	-5.51	111.33	119.60
36	1	1046	A	N9-C4-C5	-5.51	103.59	105.80
36	1	1133	A	N1-C6-N6	5.51	121.91	118.60
36	5	264	G	C4-N9-C1'	5.51	133.67	126.50
37	7	55	A	OP1-P-OP2	5.51	127.87	119.60
1	2	1130	G	O5'-P-OP1	-5.51	100.74	105.70
1	2	1215	C	N1-C2-O2	5.51	122.21	118.90
36	1	407	A	N3-C4-N9	5.51	131.81	127.40
36	1	754	G	C2-N3-C4	-5.51	109.14	111.90
36	1	1372	C	N3-C4-C5	-5.51	119.69	121.90
36	1	1516	C	OP1-P-OP2	5.51	127.87	119.60
36	1	1526	U	O5'-P-OP2	-5.51	100.74	105.70
36	1	1584	U	N3-C2-O2	5.51	126.06	122.20
36	1	2291	A	N9-C4-C5	5.51	108.00	105.80
36	1	2693	C	N3-C4-C5	5.51	124.11	121.90
36	1	2864	A	C5-N7-C8	-5.51	101.14	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3263	G	C5-C6-O6	-5.51	125.29	128.60
36	1	3394	U	N1-C2-N3	5.51	118.21	114.90
38	4	18	U	C4-C5-C6	5.51	123.01	119.70
38	4	62	C	N1-C2-O2	5.51	122.21	118.90
1	6	922	G	C4-C5-N7	5.51	113.00	110.80
1	6	1295	G	N3-C4-C5	5.51	131.35	128.60
1	6	1584	G	C5-C6-O6	-5.51	125.29	128.60
36	5	256	G	C4-C5-C6	5.51	122.11	118.80
36	5	974	G	C8-N9-C1'	-5.51	119.84	127.00
36	5	1304	A	C5-C6-N6	-5.51	119.29	123.70
36	5	1499	C	N1-C2-N3	5.51	123.06	119.20
36	5	2134	G	N3-C4-N9	5.51	129.31	126.00
36	5	2659	G	C6-C5-N7	-5.51	127.09	130.40
36	5	2673	A	C4-C5-N7	-5.51	107.94	110.70
36	5	3384	U	N3-C4-O4	5.51	123.26	119.40
38	8	102	U	C2-N1-C1'	5.51	124.31	117.70
1	2	1077	C	C6-N1-C2	-5.51	118.10	120.30
36	1	97	U	N1-C2-O2	-5.51	118.94	122.80
36	1	260	C	C5-C6-N1	5.51	123.75	121.00
36	1	580	C	N3-C4-N4	-5.51	114.14	118.00
36	1	775	A	N3-C4-C5	-5.51	122.94	126.80
36	1	1195	A	N7-C8-N9	5.51	116.56	113.80
36	1	3144	G	OP1-P-O3'	-5.51	93.08	105.20
1	6	51	A	C4-C5-C6	5.51	119.75	117.00
1	6	633	U	C4-C5-C6	5.51	123.01	119.70
1	6	1165	G	C8-N9-C1'	-5.51	119.84	127.00
1	6	1615	C	C6-N1-C2	5.51	122.50	120.30
1	6	1670	G	C4-N9-C1'	5.51	133.66	126.50
36	5	365	A	OP1-P-O3'	5.51	117.32	105.20
36	5	967	A	C5-N7-C8	-5.51	101.14	103.90
36	5	1585	C	N3-C2-O2	-5.51	118.04	121.90
36	5	2125	A	N1-C6-N6	5.51	121.91	118.60
36	5	2247	G	C6-N1-C2	-5.51	121.79	125.10
36	5	2249	G	C3'-C2'-C1'	-5.51	97.09	101.50
36	5	2621	G	OP1-P-OP2	-5.51	111.34	119.60
36	5	2676	A	C2-N3-C4	-5.51	107.84	110.60
36	5	3271	G	C4-C5-C6	5.51	122.11	118.80
36	5	3334	U	OP2-P-O3'	5.51	117.32	105.20
36	5	3381	U	C6-N1-C2	5.51	124.31	121.00
38	8	107	G	C5-C6-N1	-5.51	108.75	111.50
36	1	271	C	N1-C2-O2	5.51	122.20	118.90
36	1	1209	G	C4-N9-C1'	5.51	133.66	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2807	U	C5-C6-N1	5.51	125.45	122.70
37	3	85	G	C6-C5-N7	-5.51	127.09	130.40
1	6	904	G	C5-C6-O6	5.51	131.91	128.60
1	6	1610	G	C5-C6-N1	5.51	114.25	111.50
36	5	43	A	C5-C6-N6	-5.51	119.29	123.70
36	5	1050	U	C2-N3-C4	-5.51	123.69	127.00
36	5	1907	C	N1-C2-N3	5.51	123.06	119.20
36	5	2275	A	C4-C5-C6	5.51	119.75	117.00
36	5	2727	A	N7-C8-N9	-5.51	111.05	113.80
36	5	2770	G	C5-C6-O6	-5.51	125.30	128.60
1	2	945	U	N1-C2-O2	5.51	126.65	122.80
36	1	953	G	N7-C8-N9	-5.51	110.35	113.10
36	1	1113	G	C4-C5-N7	5.51	113.00	110.80
36	1	1134	G	N3-C2-N2	-5.51	116.05	119.90
36	1	1294	A	O5'-P-OP1	5.51	117.31	110.70
1	6	402	C	C6-N1-C2	5.51	122.50	120.30
1	6	755	A	N1-C6-N6	5.51	121.90	118.60
36	5	692	A	N7-C8-N9	5.51	116.55	113.80
36	5	832	G	C2-N3-C4	5.51	114.65	111.90
36	5	2112	U	P-O3'-C3'	5.51	126.31	119.70
36	5	2175	U	C2-N1-C1'	-5.51	111.09	117.70
36	5	2720	G	N3-C4-C5	-5.51	125.85	128.60
36	5	2944	U	O5'-P-OP1	-5.51	100.74	105.70
37	7	26	C	C6-N1-C2	-5.51	118.10	120.30
37	7	108	A	N1-C2-N3	5.51	132.05	129.30
52	m6	49	ARG	NE-CZ-NH1	-5.51	117.55	120.30
1	2	582	U	C2-N1-C1'	5.50	124.31	117.70
36	1	109	A	OP1-P-O3'	5.50	117.31	105.20
36	1	355	A	O5'-P-OP1	-5.50	100.75	105.70
36	1	1136	A	C4-C5-C6	5.50	119.75	117.00
36	1	3153	U	N3-C2-O2	-5.50	118.35	122.20
36	1	3224	G	C4-C5-N7	-5.50	108.60	110.80
36	5	783	A	N1-C6-N6	5.50	121.90	118.60
36	5	1895	A	C6-N1-C2	-5.50	115.30	118.60
36	5	1947	G	N3-C2-N2	5.50	123.75	119.90
36	5	3254	G	C8-N9-C4	5.50	108.60	106.40
1	2	347	G	C8-N9-C4	-5.50	104.20	106.40
36	1	372	A	C4-C5-C6	5.50	119.75	117.00
36	1	403	C	O5'-P-OP2	-5.50	100.75	105.70
36	1	757	C	N3-C4-N4	5.50	121.85	118.00
36	1	2364	G	N3-C4-C5	-5.50	125.85	128.60
36	1	3240	C	O5'-P-OP2	-5.50	100.75	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	4	C	N3-C4-C5	5.50	124.10	121.90
1	6	576	G	N3-C2-N2	-5.50	116.05	119.90
1	6	1100	G	N7-C8-N9	-5.50	110.35	113.10
1	6	1472	C	N3-C4-C5	5.50	124.10	121.90
1	6	1609	U	N3-C4-O4	-5.50	115.55	119.40
36	5	127	G	C5-C6-O6	-5.50	125.30	128.60
36	5	531	G	C4-C5-C6	5.50	122.10	118.80
36	5	857	G	C2-N3-C4	-5.50	109.15	111.90
36	5	1112	A	C8-N9-C1'	-5.50	117.79	127.70
36	5	1133	A	N7-C8-N9	5.50	116.55	113.80
36	5	1535	A	N7-C8-N9	-5.50	111.05	113.80
36	5	2524	A	C6-C5-N7	-5.50	128.45	132.30
36	5	2855	U	C2-N3-C4	-5.50	123.70	127.00
36	1	325	A	OP2-P-O3'	5.50	117.30	105.20
36	1	883	A	C5-C6-N1	5.50	120.45	117.70
36	1	1517	G	C4-C5-N7	5.50	113.00	110.80
36	1	2300	G	O5'-P-OP2	5.50	117.30	110.70
36	1	2330	C	N3-C4-N4	-5.50	114.15	118.00
36	1	2915	U	OP1-P-OP2	5.50	127.85	119.60
36	1	3081	C	C2-N3-C4	-5.50	117.15	119.90
36	1	3197	G	C4-N9-C1'	-5.50	119.35	126.50
38	4	90	U	C6-N1-C2	5.50	124.30	121.00
1	6	347	G	C4-C5-N7	5.50	113.00	110.80
1	6	1746	A	N9-C4-C5	5.50	108.00	105.80
36	5	570	A	C2-N3-C4	-5.50	107.85	110.60
36	5	709	A	C6-C5-N7	-5.50	128.45	132.30
36	5	1953	G	C4-N9-C1'	-5.50	119.35	126.50
36	5	3002	C	N3-C4-N4	5.50	121.85	118.00
36	5	3092	C	C4-C5-C6	-5.50	114.65	117.40
36	5	3255	U	C5-C4-O4	5.50	129.20	125.90
37	7	38	U	C4-C5-C6	-5.50	116.40	119.70
1	2	408	C	O5'-P-OP1	5.50	117.30	110.70
36	1	657	A	C8-N9-C4	-5.50	103.60	105.80
41	L4	187	LEU	CA-CB-CG	5.50	127.95	115.30
36	5	54	C	N3-C2-O2	-5.50	118.05	121.90
36	5	961	C	C5-C6-N1	5.50	123.75	121.00
36	5	2760	C	C6-N1-C2	5.50	122.50	120.30
36	5	3313	U	OP1-P-OP2	5.50	127.85	119.60
1	2	99	C	C2-N1-C1'	-5.50	112.75	118.80
23	D1	79	LEU	CA-CB-CG	5.50	127.95	115.30
36	1	242	C	N1-C1'-C2'	-5.50	105.95	112.00
36	1	667	C	O5'-P-OP2	-5.50	100.75	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	815	G	N1-C2-N2	5.50	121.15	116.20
36	1	904	A	C8-N9-C4	-5.50	103.60	105.80
36	1	1107	C	C6-N1-C2	5.50	122.50	120.30
36	1	1202	A	C6-C5-N7	-5.50	128.45	132.30
36	1	1365	G	N1-C2-N3	5.50	127.20	123.90
36	1	1752	A	N1-C2-N3	5.50	132.05	129.30
36	1	1839	A	N1-C6-N6	-5.50	115.30	118.60
36	1	2394	G	N3-C4-C5	-5.50	125.85	128.60
36	1	2865	U	OP2-P-O3'	5.50	117.30	105.20
37	3	49	G	N3-C4-N9	5.50	129.30	126.00
37	3	91	G	C2-N3-C4	-5.50	109.15	111.90
1	6	578	U	C4-C5-C6	5.50	123.00	119.70
1	6	981	U	N1-C2-N3	5.50	118.20	114.90
1	6	991	G	N9-C4-C5	5.50	107.60	105.40
1	6	1629	G	OP2-P-O3'	5.50	117.30	105.20
36	5	313	A	O5'-P-OP1	-5.50	100.75	105.70
36	5	2874	G	N3-C4-N9	5.50	129.30	126.00
36	5	2940	A	N1-C2-N3	5.50	132.05	129.30
1	2	535	A	C8-N9-C4	-5.50	103.60	105.80
1	2	1050	G	N1-C6-O6	5.50	123.20	119.90
36	1	393	U	C5-C6-N1	5.50	125.45	122.70
36	1	407	A	OP1-P-OP2	5.50	127.85	119.60
36	1	685	G	N1-C2-N2	-5.50	111.25	116.20
36	1	896	A	C8-N9-C4	-5.50	103.60	105.80
36	1	1315	U	C4-C5-C6	5.50	123.00	119.70
36	1	1424	C	C4-C5-C6	5.50	120.15	117.40
36	1	1558	A	O5'-P-OP2	-5.50	100.75	105.70
36	1	1634	G	C5-C6-O6	-5.50	125.30	128.60
36	1	2205	U	N1-C2-O2	5.50	126.65	122.80
36	1	3027	A	N1-C2-N3	5.50	132.05	129.30
36	1	3046	A	C6-C5-N7	-5.50	128.45	132.30
62	N6	126	LEU	CA-CB-CG	5.50	127.94	115.30
11	s9	3	ARG	NE-CZ-NH2	5.50	123.05	120.30
36	5	294	U	N3-C4-O4	-5.50	115.55	119.40
36	5	433	A	C4-C5-N7	5.50	113.45	110.70
36	5	1041	U	N3-C2-O2	5.50	126.05	122.20
36	5	1213	G	C6-N1-C2	-5.50	121.80	125.10
36	5	3080	G	C4-C5-N7	5.50	113.00	110.80
37	7	112	G	C5-C6-O6	5.50	131.90	128.60
36	1	2204	C	C6-N1-C1'	-5.50	114.21	120.80
36	1	2399	A	C4-C5-N7	5.50	113.45	110.70
36	1	2943	G	C8-N9-C1'	-5.50	119.86	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3064	U	C6-N1-C1'	5.50	128.89	121.20
36	1	3291	G	N3-C2-N2	-5.50	116.05	119.90
38	4	140	G	N3-C2-N2	-5.50	116.05	119.90
1	6	45	U	O5'-P-OP2	-5.50	100.75	105.70
1	6	857	U	N3-C2-O2	5.50	126.05	122.20
1	6	946	U	C2-N1-C1'	5.50	124.29	117.70
36	5	578	A	C6-C5-N7	5.50	136.15	132.30
36	5	1726	C	C6-N1-C2	5.50	122.50	120.30
36	5	1838	G	C8-N9-C4	5.50	108.60	106.40
36	5	3030	G	N1-C2-N2	5.50	121.15	116.20
1	2	255	U	C6-N1-C2	-5.49	117.70	121.00
1	2	1539	G	C5-C6-O6	-5.49	125.30	128.60
36	1	624	G	C4-N9-C1'	5.49	133.64	126.50
36	1	1060	U	N3-C4-O4	-5.49	115.56	119.40
36	1	1736	G	C5-N7-C8	-5.49	101.55	104.30
36	1	1799	A	C2-N3-C4	-5.49	107.85	110.60
36	1	1923	C	O5'-P-OP1	-5.49	100.76	105.70
36	1	2286	U	C5-C4-O4	5.49	129.20	125.90
36	1	3089	C	N1-C2-N3	5.49	123.05	119.20
1	6	432	G	C4-N9-C1'	5.49	133.64	126.50
1	6	972	G	C4-C5-N7	5.49	113.00	110.80
1	6	1143	A	C6-C5-N7	-5.49	128.46	132.30
1	6	1630	U	C6-N1-C2	-5.49	117.70	121.00
36	5	196	G	OP1-P-O3'	5.49	117.29	105.20
36	5	388	G	C5-C6-O6	5.49	131.90	128.60
36	5	1318	A	C6-N1-C2	-5.49	115.30	118.60
36	5	2794	G	C4-N9-C1'	-5.49	119.36	126.50
36	5	2952	G	C4-N9-C1'	5.49	133.64	126.50
36	5	3328	G	N9-C4-C5	-5.49	103.20	105.40
37	7	97	A	N3-C4-N9	5.49	131.79	127.40
36	1	907	G	O4'-C1'-N9	5.49	112.59	108.20
36	1	1709	C	N3-C4-C5	-5.49	119.70	121.90
36	1	1887	A	C6-C5-N7	-5.49	128.46	132.30
36	1	3082	C	OP1-P-OP2	-5.49	111.36	119.60
1	6	16	G	O5'-P-OP1	5.49	117.29	110.70
1	6	567	A	O5'-P-OP2	-5.49	100.76	105.70
36	5	509	U	C6-N1-C2	5.49	124.30	121.00
36	5	890	C	O5'-P-OP1	5.49	117.29	110.70
36	5	1336	U	C5-C6-N1	5.49	125.45	122.70
36	5	2682	C	N3-C4-C5	-5.49	119.70	121.90
36	5	2687	G	N3-C4-N9	5.49	129.29	126.00
1	2	310	C	N3-C2-O2	-5.49	118.06	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1073	G	N7-C8-N9	-5.49	110.36	113.10
1	2	1462	G	N7-C8-N9	-5.49	110.36	113.10
36	1	3152	U	C6-N1-C1'	5.49	128.89	121.20
37	3	41	G	O4'-C1'-N9	5.49	112.59	108.20
37	3	91	G	C4-N9-C1'	5.49	133.64	126.50
1	6	23	G	C5-C6-N1	-5.49	108.75	111.50
36	5	1042	U	C6-N1-C2	5.49	124.30	121.00
36	5	1264	G	N1-C6-O6	-5.49	116.61	119.90
36	5	1350	A	N1-C6-N6	-5.49	115.31	118.60
36	5	1883	A	C6-N1-C2	-5.49	115.31	118.60
36	5	2320	A	C2-N3-C4	-5.49	107.86	110.60
36	5	2361	A	C5-C6-N1	5.49	120.45	117.70
36	5	2915	U	O5'-P-OP2	-5.49	100.76	105.70
36	5	2952	G	N9-C4-C5	-5.49	103.20	105.40
36	5	3062	G	N9-C4-C5	-5.49	103.20	105.40
1	2	238	U	O4'-C1'-N1	5.49	112.59	108.20
1	2	619	A	OP2-P-O3'	5.49	117.28	105.20
36	1	1295	G	C4-N9-C1'	5.49	133.63	126.50
36	1	1475	A	N1-C6-N6	5.49	121.89	118.60
36	1	1751	G	N9-C4-C5	5.49	107.59	105.40
38	4	43	A	C2-N3-C4	5.49	113.34	110.60
63	N7	51	LEU	CA-CB-CG	-5.49	102.67	115.30
1	6	21	U	N1-C2-N3	5.49	118.19	114.90
1	6	93	A	C5-C6-N1	5.49	120.44	117.70
1	6	435	C	N1-C2-O2	5.49	122.19	118.90
1	6	602	U	OP2-P-O3'	5.49	117.27	105.20
1	6	980	G	C8-N9-C4	5.49	108.59	106.40
1	6	1447	C	N1-C2-O2	5.49	122.19	118.90
36	5	653	A	N9-C4-C5	-5.49	103.60	105.80
36	5	1202	A	C6-C5-N7	-5.49	128.46	132.30
37	7	33	U	C2-N3-C4	-5.49	123.71	127.00
36	1	399	A	C4-C5-N7	5.49	113.44	110.70
36	1	655	C	O5'-P-OP1	5.49	117.28	110.70
36	1	908	G	C4-C5-C6	5.49	122.09	118.80
36	1	3013	U	C6-N1-C2	5.49	124.29	121.00
1	6	425	A	N9-C4-C5	5.49	108.00	105.80
1	6	1283	U	C5-C4-O4	5.49	129.19	125.90
1	6	1564	U	N3-C4-C5	5.49	117.89	114.60
36	5	39	A	N1-C2-N3	5.49	132.04	129.30
36	5	52	A	C6-N1-C2	-5.49	115.31	118.60
36	5	830	A	N1-C2-N3	5.49	132.04	129.30
36	5	2167	A	C8-N9-C4	-5.49	103.61	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	115	G	OP2-P-O3'	5.49	117.27	105.20
38	8	10	A	N7-C8-N9	-5.49	111.06	113.80
1	2	311	U	N3-C4-C5	-5.49	111.31	114.60
1	2	1608	U	C6-N1-C2	-5.49	117.71	121.00
1	2	1752	U	C6-N1-C2	5.49	124.29	121.00
36	1	113	C	N3-C4-N4	5.49	121.84	118.00
36	1	404	G	C4-N9-C1'	5.49	133.63	126.50
36	1	1050	U	C4-C5-C6	5.49	122.99	119.70
36	1	1321	G	N1-C6-O6	5.49	123.19	119.90
36	1	2610	G	N1-C2-N3	5.49	127.19	123.90
36	1	3222	U	N3-C4-O4	-5.49	115.56	119.40
36	1	3276	G	C4-C5-N7	5.49	112.99	110.80
36	1	3329	U	O5'-P-OP1	-5.49	100.76	105.70
38	4	52	A	N1-C6-N6	-5.49	115.31	118.60
38	4	73	U	N3-C4-O4	-5.49	115.56	119.40
1	6	1039	A	C5-N7-C8	-5.49	101.16	103.90
1	6	1192	C	N3-C4-N4	5.49	121.84	118.00
36	5	406	G	C2-N3-C4	-5.49	109.16	111.90
36	5	667	C	N1-C2-O2	5.49	122.19	118.90
36	5	1668	G	N1-C6-O6	5.49	123.19	119.90
36	5	2957	G	N3-C4-N9	-5.49	122.71	126.00
1	2	1720	G	N1-C6-O6	5.48	123.19	119.90
36	1	1893	A	C2-N3-C4	-5.48	107.86	110.60
36	5	2163	C	N3-C2-O2	-5.48	118.06	121.90
1	2	1004	U	N1-C2-N3	5.48	118.19	114.90
1	2	1201	G	C5-N7-C8	5.48	107.04	104.30
36	1	52	A	O5'-P-OP1	-5.48	100.77	105.70
36	1	125	C	C6-N1-C2	5.48	122.49	120.30
36	1	932	U	C2-N3-C4	-5.48	123.71	127.00
36	1	1177	G	P-O3'-C3'	5.48	126.28	119.70
36	1	1334	U	O5'-P-OP2	-5.48	100.77	105.70
36	1	1367	G	C8-N9-C4	-5.48	104.21	106.40
36	1	1500	G	N1-C6-O6	5.48	123.19	119.90
1	6	561	G	N7-C8-N9	5.48	115.84	113.10
1	6	804	A	C5-C6-N6	-5.48	119.31	123.70
1	6	858	G	C8-N9-C1'	-5.48	119.87	127.00
1	6	1100	G	C4-C5-N7	5.48	112.99	110.80
36	5	768	C	C5-C6-N1	5.48	123.74	121.00
36	5	867	G	C4-C5-C6	5.48	122.09	118.80
36	5	943	U	C4-C5-C6	5.48	122.99	119.70
36	5	1155	C	C5-C6-N1	5.48	123.74	121.00
36	5	1215	U	N3-C4-O4	5.48	123.24	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1860	G	O4'-C1'-N9	5.48	112.59	108.20
36	5	1863	G	N1-C6-O6	-5.48	116.61	119.90
36	5	2396	G	N9-C4-C5	5.48	107.59	105.40
1	2	1029	U	N3-C4-O4	-5.48	115.56	119.40
36	1	628	A	OP1-P-O3'	-5.48	93.14	105.20
36	1	641	C	C6-N1-C2	5.48	122.49	120.30
36	1	651	G	O4'-C1'-N9	-5.48	103.82	108.20
36	1	1205	A	O5'-P-OP2	-5.48	100.77	105.70
36	1	2877	G	OP1-P-OP2	5.48	127.82	119.60
37	3	103	A	OP2-P-O3'	5.48	117.26	105.20
1	6	1656	U	N3-C4-O4	5.48	123.24	119.40
1	2	336	G	N1-C6-O6	5.48	123.19	119.90
36	1	362	U	C2-N1-C1'	-5.48	111.13	117.70
36	1	929	A	N1-C2-N3	-5.48	126.56	129.30
36	1	1153	A	N1-C6-N6	5.48	121.89	118.60
36	1	2095	G	C6-C5-N7	-5.48	127.11	130.40
36	1	2870	C	P-O3'-C3'	5.48	126.27	119.70
1	6	1625	C	N3-C2-O2	5.48	125.74	121.90
36	5	2318	U	N1-C2-N3	-5.48	111.61	114.90
1	2	581	U	C5-C6-N1	5.48	125.44	122.70
36	1	805	G	C6-C5-N7	-5.48	127.11	130.40
36	1	943	U	N3-C4-C5	-5.48	111.31	114.60
36	1	1429	G	C4-C5-C6	5.48	122.09	118.80
36	1	1521	G	N3-C4-N9	-5.48	122.71	126.00
36	1	1618	G	N9-C4-C5	5.48	107.59	105.40
36	1	2520	A	C4-C5-N7	5.48	113.44	110.70
38	4	41	A	N3-C4-N9	5.48	131.78	127.40
1	6	757	A	C2-N3-C4	-5.48	107.86	110.60
1	6	1509	C	C2-N3-C4	-5.48	117.16	119.90
36	5	419	G	N3-C4-C5	-5.48	125.86	128.60
36	5	595	G	N3-C4-C5	-5.48	125.86	128.60
36	5	1816	A	C2-N3-C4	5.48	113.34	110.60
36	5	3114	A	N3-C4-C5	5.48	130.63	126.80
36	5	3225	C	N3-C4-N4	5.48	121.83	118.00
1	2	287	G	N9-C1'-C2'	-5.48	105.98	112.00
1	2	1108	G	C5-C6-N1	5.48	114.24	111.50
1	2	1173	C	N3-C2-O2	-5.48	118.07	121.90
1	2	1303	U	C2-N1-C1'	-5.48	111.13	117.70
36	1	419	G	N3-C4-N9	5.48	129.28	126.00
36	1	815	G	C4-C5-N7	-5.48	108.61	110.80
36	1	2127	U	O5'-P-OP2	5.48	117.27	110.70
36	1	2229	A	C5-N7-C8	-5.48	101.16	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	157	A	N1-C6-N6	-5.48	115.31	118.60
1	2	378	A	C4-C5-N7	5.47	113.44	110.70
1	2	1656	U	N3-C2-O2	5.47	126.03	122.20
36	1	73	C	O4'-C1'-N1	-5.47	103.82	108.20
36	1	353	G	N3-C4-N9	-5.47	122.72	126.00
36	1	2164	A	C8-N9-C4	-5.47	103.61	105.80
36	1	2243	A	N1-C6-N6	5.47	121.89	118.60
36	1	2419	A	C5-C6-N6	-5.47	119.32	123.70
36	1	2634	U	N3-C4-O4	5.47	123.23	119.40
37	3	109	G	C4-N9-C1'	-5.47	119.38	126.50
1	6	989	U	N3-C2-O2	-5.47	118.37	122.20
1	6	1226	A	N3-C4-C5	-5.47	122.97	126.80
36	5	217	U	N3-C4-O4	-5.47	115.57	119.40
36	5	1847	A	O5'-P-OP2	-5.47	100.77	105.70
1	2	1266	U	OP1-P-O3'	5.47	117.24	105.20
36	1	1374	G	C5-C6-O6	-5.47	125.32	128.60
36	1	1448	U	C4-C5-C6	5.47	122.98	119.70
36	1	1525	G	N1-C2-N2	-5.47	111.27	116.20
36	1	1665	C	N3-C2-O2	5.47	125.73	121.90
37	3	75	G	N1-C2-N3	5.47	127.18	123.90
40	L3	117	ARG	NE-CZ-NH1	5.47	123.04	120.30
1	6	52	U	C2-N1-C1'	5.47	124.27	117.70
1	6	639	U	O4'-C1'-N1	5.47	112.58	108.20
36	5	183	G	N9-C4-C5	5.47	107.59	105.40
36	5	617	G	C8-N9-C4	5.47	108.59	106.40
36	5	1082	U	C2-N1-C1'	5.47	124.27	117.70
36	5	1318	A	OP2-P-O3'	5.47	117.24	105.20
36	5	1896	A	N9-C4-C5	5.47	107.99	105.80
36	5	3074	G	O5'-P-OP1	-5.47	100.78	105.70
52	m6	138	LEU	CB-CG-CD2	-5.47	101.70	111.00
1	2	574	G	C4-C5-N7	-5.47	108.61	110.80
1	2	1329	A	N9-C4-C5	-5.47	103.61	105.80
36	1	788	C	C4-C5-C6	5.47	120.14	117.40
36	1	1070	U	C5-C4-O4	5.47	129.18	125.90
1	6	546	U	N1-C2-N3	5.47	118.18	114.90
36	5	712	G	C2-N3-C4	5.47	114.64	111.90
36	5	1489	A	C6-N1-C2	-5.47	115.32	118.60
36	5	2287	C	N3-C4-N4	-5.47	114.17	118.00
36	5	2860	U	C6-N1-C2	5.47	124.28	121.00
1	2	1744	A	O5'-P-OP1	-5.47	100.78	105.70
36	1	933	A	N3-C4-N9	5.47	131.78	127.40
36	1	1046	A	C6-C5-N7	-5.47	128.47	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1303	A	OP1-P-O3'	5.47	117.23	105.20
36	1	1523	U	O4'-C1'-N1	5.47	112.58	108.20
36	1	2586	G	N3-C4-C5	-5.47	125.86	128.60
36	1	2624	G	C4-N9-C1'	5.47	133.61	126.50
36	1	3321	C	O5'-P-OP1	5.47	117.26	110.70
36	1	3393	U	C2-N1-C1'	-5.47	111.14	117.70
1	6	57	G	N7-C8-N9	5.47	115.83	113.10
1	6	325	G	N1-C2-N3	5.47	127.18	123.90
1	6	1148	C	N3-C2-O2	-5.47	118.07	121.90
1	6	1228	G	C4-N9-C1'	5.47	133.61	126.50
36	5	1881	A	C5-C6-N1	5.47	120.44	117.70
36	5	2351	U	C2-N3-C4	-5.47	123.72	127.00
36	5	2374	C	OP2-P-O3'	5.47	117.23	105.20
36	5	3315	G	N1-C2-N3	5.47	127.18	123.90
38	8	12	A	C6-C5-N7	-5.47	128.47	132.30
1	2	1030	A	N1-C6-N6	5.47	121.88	118.60
36	1	881	C	OP1-P-O3'	5.47	117.23	105.20
36	1	3323	A	C4-C5-C6	5.47	119.73	117.00
38	4	13	A	C2-N3-C4	-5.47	107.87	110.60
1	6	331	A	O5'-P-OP2	-5.47	100.78	105.70
1	6	388	G	N1-C2-N3	5.47	127.18	123.90
1	6	554	C	N1-C2-O2	-5.47	115.62	118.90
1	6	1361	U	N1-C2-O2	5.47	126.63	122.80
36	5	1668	G	N7-C8-N9	5.47	115.83	113.10
36	5	2518	C	N3-C2-O2	5.47	125.73	121.90
36	5	3117	C	N3-C2-O2	-5.47	118.07	121.90
1	2	1044	U	N1-C2-N3	5.47	118.18	114.90
1	2	1773	C	N1-C2-O2	-5.47	115.62	118.90
36	1	1005	G	C4-C5-N7	-5.47	108.61	110.80
36	1	2627	C	C2-N1-C1'	-5.47	112.79	118.80
36	1	2844	C	N3-C4-C5	5.47	124.09	121.90
36	1	3269	U	C5-C4-O4	5.47	129.18	125.90
38	4	77	A	C2-N3-C4	-5.47	107.87	110.60
1	6	420	A	C8-N9-C4	-5.47	103.61	105.80
1	6	1245	G	N3-C4-C5	-5.47	125.87	128.60
36	5	543	C	C6-N1-C2	-5.47	118.11	120.30
36	5	591	G	C4-N9-C1'	5.47	133.61	126.50
36	5	1173	U	C5-C6-N1	-5.47	119.97	122.70
36	5	1889	G	C5-C6-O6	-5.47	125.32	128.60
36	5	2106	A	C8-N9-C4	-5.47	103.61	105.80
36	5	2265	C	N3-C4-C5	-5.47	119.71	121.90
36	5	2377	G	N1-C2-N3	-5.47	120.62	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2386	A	C2-N3-C4	-5.47	107.87	110.60
36	5	2722	U	C6-N1-C2	-5.47	117.72	121.00
36	5	2923	U	OP2-P-O3'	-5.47	93.17	105.20
36	5	3128	G	OP2-P-O3'	5.47	117.23	105.20
36	5	3181	C	C5-C4-N4	5.47	124.03	120.20
1	2	233	C	C6-N1-C2	-5.46	118.11	120.30
36	1	320	G	C4-C5-N7	5.46	112.99	110.80
36	1	1002	A	C4-C5-C6	-5.46	114.27	117.00
36	1	1346	G	N3-C2-N2	-5.46	116.08	119.90
36	1	1905	G	C5-C6-N1	-5.46	108.77	111.50
36	1	2286	U	C4-C5-C6	5.46	122.98	119.70
36	1	2886	U	N3-C2-O2	5.46	126.03	122.20
36	1	3142	A	C4-N9-C1'	-5.46	116.47	126.30
36	1	3261	C	C5-C6-N1	5.46	123.73	121.00
1	6	440	U	C2-N3-C4	-5.46	123.72	127.00
1	6	874	C	N1-C2-O2	5.46	122.18	118.90
1	6	903	U	N3-C4-O4	5.46	123.22	119.40
36	5	801	A	C5-C6-N1	-5.46	114.97	117.70
36	5	987	U	N1-C2-N3	5.46	118.18	114.90
36	5	2347	U	C4-C5-C6	5.46	122.98	119.70
37	7	25	G	N3-C4-C5	-5.46	125.87	128.60
38	8	17	A	N1-C6-N6	5.46	121.88	118.60
36	1	936	A	C8-N9-C4	5.46	107.98	105.80
36	1	2163	C	N3-C4-C5	5.46	124.08	121.90
36	1	2368	A	C6-C5-N7	-5.46	128.48	132.30
36	1	2655	U	C6-N1-C1'	5.46	128.85	121.20
36	1	3288	G	C5-N7-C8	-5.46	101.57	104.30
36	5	235	A	N3-C4-C5	5.46	130.62	126.80
36	5	651	G	OP2-P-O3'	5.46	117.22	105.20
36	5	1656	A	N1-C2-N3	5.46	132.03	129.30
36	5	1929	G	C2-N3-C4	-5.46	109.17	111.90
68	o2	27	ARG	NE-CZ-NH1	-5.46	117.57	120.30
1	2	622	A	C2-N3-C4	5.46	113.33	110.60
36	1	38	U	O5'-P-OP2	5.46	117.25	110.70
36	1	94	G	N1-C6-O6	5.46	123.18	119.90
36	1	416	A	C6-C5-N7	-5.46	128.48	132.30
36	1	695	C	C2-N3-C4	-5.46	117.17	119.90
36	1	907	G	N3-C2-N2	5.46	123.72	119.90
36	1	1099	A	C8-N9-C4	5.46	107.98	105.80
36	1	2149	A	N1-C6-N6	-5.46	115.32	118.60
36	1	2423	U	N3-C4-O4	5.46	123.22	119.40
36	1	2652	U	OP2-P-O3'	5.46	117.22	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2684	C	C6-N1-C2	-5.46	118.11	120.30
36	1	2964	G	C5-C6-N1	-5.46	108.77	111.50
36	1	3375	A	P-O3'-C3'	5.46	126.25	119.70
1	6	635	A	C5-C6-N6	5.46	128.07	123.70
1	6	858	G	C8-N9-C4	-5.46	104.22	106.40
1	6	865	A	C8-N9-C4	-5.46	103.61	105.80
1	6	980	G	N1-C6-O6	5.46	123.18	119.90
1	6	1126	G	N3-C2-N2	-5.46	116.08	119.90
1	6	1467	C	C5-C6-N1	5.46	123.73	121.00
1	6	1796	C	N3-C2-O2	-5.46	118.08	121.90
36	5	595	G	N9-C4-C5	-5.46	103.22	105.40
36	5	702	C	C5-C6-N1	5.46	123.73	121.00
36	5	1043	C	C2-N3-C4	-5.46	117.17	119.90
36	5	1489	A	C8-N9-C1'	-5.46	117.87	127.70
36	5	1691	U	C6-N1-C2	-5.46	117.72	121.00
36	5	2190	U	OP2-P-O3'	5.46	117.21	105.20
36	5	2199	G	C8-N9-C4	-5.46	104.22	106.40
36	5	2365	C	C4-C5-C6	5.46	120.13	117.40
1	2	100	A	N1-C6-N6	-5.46	115.32	118.60
36	1	115	A	O4'-C1'-N9	-5.46	103.83	108.20
36	1	1869	C	N3-C2-O2	5.46	125.72	121.90
36	1	2239	G	N3-C2-N2	5.46	123.72	119.90
36	1	2990	G	N3-C4-N9	5.46	129.28	126.00
36	1	3173	G	C4-N9-C1'	5.46	133.60	126.50
1	6	885	G	OP1-P-O3'	5.46	117.21	105.20
36	5	342	A	N3-C4-N9	5.46	131.77	127.40
36	5	356	C	N1-C2-O2	-5.46	115.62	118.90
36	5	1095	U	C2-N1-C1'	5.46	124.25	117.70
36	5	1881	A	O4'-C1'-N9	-5.46	103.83	108.20
36	5	2664	C	N3-C4-C5	5.46	124.08	121.90
36	5	3095	U	C5-C6-N1	-5.46	119.97	122.70
36	1	128	G	N1-C6-O6	5.46	123.17	119.90
36	1	622	A	N1-C2-N3	-5.46	126.57	129.30
36	1	1196	C	N1-C2-N3	-5.46	115.38	119.20
36	1	3242	G	C2-N3-C4	-5.46	109.17	111.90
40	L3	284	ARG	NE-CZ-NH1	5.46	123.03	120.30
61	N5	115	ARG	NE-CZ-NH1	5.46	123.03	120.30
1	6	165	G	C4-C5-C6	5.46	122.08	118.80
1	6	1454	G	C6-C5-N7	-5.46	127.12	130.40
36	5	1431	G	N3-C4-N9	5.46	129.28	126.00
36	5	1752	A	O5'-P-OP1	-5.46	100.79	105.70
36	5	1884	A	C6-N1-C2	-5.46	115.33	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2300	G	C4-C5-N7	5.46	112.98	110.80
36	5	2374	C	C6-N1-C1'	-5.46	114.25	120.80
36	5	2624	G	N9-C4-C5	-5.46	103.22	105.40
36	5	2729	U	C5-C6-N1	-5.46	119.97	122.70
37	7	87	G	C8-N9-C1'	-5.46	119.90	127.00
1	2	314	C	OP1-P-O3'	5.46	117.20	105.20
1	2	783	G	N9-C4-C5	-5.46	103.22	105.40
36	1	429	U	OP2-P-O3'	5.46	117.20	105.20
36	1	875	G	N3-C2-N2	-5.46	116.08	119.90
36	1	1444	G	N3-C4-C5	-5.46	125.87	128.60
36	1	3008	A	OP1-P-OP2	-5.46	111.41	119.60
36	1	3145	C	N1-C2-O2	-5.46	115.63	118.90
37	3	56	A	C4-C5-C6	-5.46	114.27	117.00
38	4	33	A	O5'-P-OP1	-5.46	100.79	105.70
38	4	46	G	N3-C4-C5	-5.46	125.87	128.60
38	4	81	U	C6-N1-C2	-5.46	117.73	121.00
38	4	83	C	N3-C4-C5	-5.46	119.72	121.90
36	5	53	G	N1-C6-O6	-5.46	116.63	119.90
36	5	528	U	N3-C4-O4	5.46	123.22	119.40
36	5	936	A	O5'-P-OP1	5.46	117.25	110.70
36	5	1280	C	C6-N1-C2	5.46	122.48	120.30
36	5	2370	G	C8-N9-C4	-5.46	104.22	106.40
36	1	1103	A	C4-C5-N7	-5.46	107.97	110.70
36	1	1147	G	N1-C2-N3	5.46	127.17	123.90
36	1	1431	G	C8-N9-C1'	-5.46	119.91	127.00
36	1	1893	A	C5-N7-C8	-5.46	101.17	103.90
1	6	411	C	C6-N1-C2	-5.46	118.12	120.30
36	5	1452	A	N1-C2-N3	5.46	132.03	129.30
36	5	3142	A	N1-C6-N6	-5.46	115.33	118.60
1	2	275	C	C5-C6-N1	5.45	123.73	121.00
1	2	1112	G	OP1-P-OP2	-5.45	111.42	119.60
14	C2	103	LEU	CA-CB-CG	5.45	127.84	115.30
36	1	275	U	OP1-P-OP2	-5.45	111.42	119.60
36	1	515	C	N3-C4-C5	-5.45	119.72	121.90
36	1	613	G	C5-N7-C8	-5.45	101.57	104.30
36	1	951	A	C8-N9-C4	5.45	107.98	105.80
36	1	1082	U	N3-C2-O2	-5.45	118.38	122.20
36	1	1456	A	O4'-C1'-N9	-5.45	103.84	108.20
36	1	1524	A	C5-C6-N1	5.45	120.43	117.70
36	1	1553	U	N1-C2-O2	-5.45	118.98	122.80
36	1	3122	A	C4-C5-N7	5.45	113.43	110.70
1	6	322	G	O4'-C1'-N9	-5.45	103.84	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	761	G	N9-C4-C5	5.45	107.58	105.40
1	6	1178	G	C5-C6-O6	5.45	131.87	128.60
1	6	1772	C	C4-C5-C6	5.45	120.13	117.40
36	5	110	G	C4-N9-C1'	5.45	133.59	126.50
36	5	1389	G	C8-N9-C4	5.45	108.58	106.40
36	5	1551	C	O4'-C1'-N1	5.45	112.56	108.20
36	5	2119	A	C2-N3-C4	-5.45	107.87	110.60
36	5	2274	U	N3-C4-O4	5.45	123.22	119.40
37	7	106	U	OP1-P-OP2	5.45	127.78	119.60
1	2	770	A	O5'-P-OP2	-5.45	100.79	105.70
36	1	1618	G	C4-C5-N7	-5.45	108.62	110.80
36	1	1795	U	N1-C2-O2	-5.45	118.98	122.80
36	1	3304	U	OP1-P-OP2	5.45	127.78	119.60
36	1	3320	A	C5-N7-C8	-5.45	101.17	103.90
1	6	1100	G	N3-C4-C5	5.45	131.33	128.60
36	5	1522	U	C2-N1-C1'	-5.45	111.16	117.70
36	5	1652	G	N1-C6-O6	5.45	123.17	119.90
36	5	2907	G	C6-N1-C2	-5.45	121.83	125.10
37	7	17	A	C6-N1-C2	-5.45	115.33	118.60
1	2	27	U	N1-C2-O2	5.45	126.61	122.80
36	1	10	C	C6-N1-C2	5.45	122.48	120.30
36	1	80	G	C8-N9-C4	-5.45	104.22	106.40
36	1	518	G	N9-C4-C5	5.45	107.58	105.40
36	1	828	A	N1-C6-N6	5.45	121.87	118.60
36	1	906	A	C5-C6-N1	5.45	120.42	117.70
36	1	944	C	C2-N3-C4	-5.45	117.17	119.90
36	1	1330	A	OP2-P-O3'	5.45	117.19	105.20
36	1	1545	A	C4-C5-C6	5.45	119.73	117.00
36	1	2197	C	N3-C2-O2	5.45	125.72	121.90
36	1	2339	C	N1-C2-O2	5.45	122.17	118.90
36	1	3189	G	N3-C4-N9	5.45	129.27	126.00
36	1	3242	G	O5'-P-OP2	-5.45	100.80	105.70
36	1	3304	U	N1-C2-N3	5.45	118.17	114.90
52	M6	99	LEU	CA-CB-CG	-5.45	102.76	115.30
1	6	55	A	C5-C6-N6	5.45	128.06	123.70
1	6	217	A	P-O3'-C3'	5.45	126.24	119.70
1	6	1774	G	OP2-P-O3'	5.45	117.19	105.20
36	5	1313	G	N3-C4-C5	-5.45	125.87	128.60
36	5	1397	C	C2-N1-C1'	5.45	124.80	118.80
36	5	2372	A	N3-C4-N9	5.45	131.76	127.40
36	5	2828	G	O5'-P-OP2	5.45	117.24	110.70
36	5	2918	G	N7-C8-N9	-5.45	110.38	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3060	C	N3-C2-O2	5.45	125.72	121.90
1	2	755	A	C4-C5-N7	-5.45	107.98	110.70
1	2	1104	U	N3-C2-O2	5.45	126.01	122.20
36	1	1178	G	C6-N1-C2	-5.45	121.83	125.10
36	1	1367	G	C4-C5-C6	5.45	122.07	118.80
36	1	2824	G	C2-N3-C4	-5.45	109.18	111.90
36	1	3189	G	N3-C4-C5	-5.45	125.88	128.60
37	3	115	G	C8-N9-C4	5.45	108.58	106.40
1	6	3	U	C5-C6-N1	-5.45	119.98	122.70
1	6	760	A	C2-N3-C4	-5.45	107.88	110.60
1	6	1583	A	N9-C4-C5	5.45	107.98	105.80
36	5	81	C	C5-C6-N1	-5.45	118.28	121.00
36	5	957	C	N3-C2-O2	-5.45	118.09	121.90
36	5	2908	G	OP1-P-O3'	-5.45	93.21	105.20
36	5	3100	U	N3-C4-C5	5.45	117.87	114.60
36	5	3243	A	N1-C6-N6	5.45	121.87	118.60
36	1	2332	A	C5-C6-N6	-5.45	119.34	123.70
1	6	52	U	C6-N1-C2	-5.45	117.73	121.00
36	5	1362	G	C5-C6-O6	-5.45	125.33	128.60
36	5	1383	G	N1-C6-O6	5.45	123.17	119.90
36	5	2735	U	O5'-P-OP1	5.45	117.24	110.70
1	2	728	U	C2-N1-C1'	5.45	124.23	117.70
1	2	1427	A	C2-N3-C4	5.45	113.32	110.60
36	1	236	G	N1-C6-O6	-5.45	116.63	119.90
36	1	1412	G	OP1-P-OP2	-5.45	111.43	119.60
36	1	1527	C	N3-C2-O2	5.45	125.71	121.90
36	1	2247	G	O5'-P-OP1	-5.45	100.80	105.70
36	1	2916	U	C5-C4-O4	-5.45	122.63	125.90
36	1	2991	A	O5'-P-OP2	5.45	117.23	110.70
36	1	3022	G	O4'-C1'-N9	5.45	112.56	108.20
36	1	3114	A	N1-C2-N3	5.45	132.02	129.30
36	1	3318	G	N9-C1'-C2'	-5.45	106.01	112.00
38	4	63	G	N1-C2-N3	5.45	127.17	123.90
1	6	417	A	OP2-P-O3'	5.45	117.18	105.20
1	6	574	G	N7-C8-N9	-5.45	110.38	113.10
1	6	777	C	C5-C6-N1	5.45	123.72	121.00
1	6	1004	U	C4-C5-C6	5.45	122.97	119.70
36	5	96	G	C6-N1-C2	5.45	128.37	125.10
36	5	212	G	N3-C4-C5	-5.45	125.88	128.60
36	5	947	G	C4-N9-C1'	5.45	133.58	126.50
36	5	1400	G	C6-C5-N7	-5.45	127.13	130.40
36	5	2728	G	N7-C8-N9	5.45	115.82	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3390	G	N1-C2-N3	5.45	127.17	123.90
37	7	93	C	C2-N3-C4	-5.45	117.18	119.90
38	8	101	U	N3-C2-O2	-5.45	118.39	122.20
50	m4	38	ILE	CG1-CB-CG2	-5.45	99.42	111.40
1	2	43	A	N1-C6-N6	-5.44	115.33	118.60
36	1	329	U	C2-N3-C4	-5.44	123.73	127.00
36	1	587	U	N3-C2-O2	5.44	126.01	122.20
36	1	592	A	O5'-P-OP2	-5.44	100.80	105.70
36	1	696	C	P-O3'-C3'	5.44	126.23	119.70
36	1	1099	A	C5-C6-N6	-5.44	119.34	123.70
36	1	2235	C	N1-C2-O2	-5.44	115.63	118.90
36	1	2356	A	N1-C6-N6	5.44	121.87	118.60
36	5	817	A	C8-N9-C4	-5.44	103.62	105.80
36	5	2354	C	C2-N3-C4	5.44	122.62	119.90
36	1	573	C	O5'-P-OP2	-5.44	100.80	105.70
36	1	994	G	OP1-P-O3'	5.44	117.17	105.20
36	1	1621	A	N7-C8-N9	-5.44	111.08	113.80
36	1	3312	U	C5-C6-N1	5.44	125.42	122.70
1	6	417	A	C4-C5-C6	5.44	119.72	117.00
1	6	1070	C	C2-N3-C4	-5.44	117.18	119.90
1	6	1772	C	C5-C6-N1	-5.44	118.28	121.00
36	5	1343	A	C8-N9-C4	5.44	107.98	105.80
36	5	2208	A	O4'-C1'-N9	5.44	112.56	108.20
36	5	2285	C	N1-C2-N3	5.44	123.01	119.20
36	5	3061	G	N1-C2-N2	5.44	121.10	116.20
36	5	3290	G	C4-N9-C1'	5.44	133.57	126.50
1	2	1241	G	C8-N9-C1'	-5.44	119.93	127.00
1	2	1255	G	C4-C5-N7	-5.44	108.62	110.80
36	1	361	A	C6-N1-C2	-5.44	115.34	118.60
36	1	679	U	C5-C4-O4	5.44	129.16	125.90
36	1	1296	C	N3-C4-C5	5.44	124.08	121.90
36	1	2799	A	C5-C6-N6	5.44	128.05	123.70
36	1	2882	U	N1-C2-N3	5.44	118.17	114.90
1	6	1376	C	C2-N1-C1'	-5.44	112.82	118.80
36	5	62	A	N7-C8-N9	5.44	116.52	113.80
36	5	515	C	C5-C6-N1	-5.44	118.28	121.00
36	5	521	A	O5'-P-OP1	-5.44	100.80	105.70
36	5	677	A	C5-C6-N1	5.44	120.42	117.70
36	5	1040	A	N9-C1'-C2'	-5.44	106.02	112.00
36	5	1174	G	O5'-P-OP2	-5.44	100.80	105.70
36	5	1672	U	C5-C6-N1	-5.44	119.98	122.70
36	5	2584	G	O4'-C1'-N9	-5.44	103.85	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2978	U	N1-C2-N3	5.44	118.16	114.90
36	5	3153	U	C2-N1-C1'	5.44	124.23	117.70
36	5	3324	C	C6-N1-C2	5.44	122.48	120.30
37	7	68	C	O5'-P-OP1	-5.44	100.80	105.70
37	7	80	G	C8-N9-C1'	-5.44	119.93	127.00
38	8	31	G	N7-C8-N9	-5.44	110.38	113.10
62	n6	6	LEU	CA-CB-CG	-5.44	102.79	115.30
36	1	404	G	N3-C4-N9	5.44	129.26	126.00
36	1	504	A	C5-C6-N1	5.44	120.42	117.70
36	1	2121	G	C8-N9-C1'	5.44	134.07	127.00
36	1	2163	C	C5-C6-N1	-5.44	118.28	121.00
36	1	2210	G	C8-N9-C1'	5.44	134.07	127.00
36	1	2341	A	C8-N9-C4	5.44	107.97	105.80
1	6	361	C	N3-C2-O2	-5.44	118.09	121.90
1	6	613	G	C5-C6-O6	-5.44	125.34	128.60
36	5	507	U	C4-C5-C6	5.44	122.96	119.70
36	5	3147	G	N1-C2-N2	-5.44	111.31	116.20
40	l3	14	LEU	CB-CG-CD2	-5.44	101.75	111.00
1	2	1625	C	C5-C6-N1	-5.44	118.28	121.00
36	1	91	G	C4-N9-C1'	5.44	133.57	126.50
36	1	142	C	OP1-P-OP2	5.44	127.75	119.60
36	1	839	C	C5-C4-N4	-5.44	116.39	120.20
36	1	1762	C	N1-C2-O2	5.44	122.16	118.90
1	6	1309	C	C4-C5-C6	5.44	120.12	117.40
36	5	33	G	N9-C4-C5	5.44	107.58	105.40
36	5	694	C	C5-C6-N1	-5.44	118.28	121.00
36	5	878	G	C2-N3-C4	5.44	114.62	111.90
36	5	949	C	C5-C6-N1	-5.44	118.28	121.00
36	5	1195	A	C6-N1-C2	-5.44	115.34	118.60
36	5	1329	U	N1-C2-O2	-5.44	118.99	122.80
36	5	1439	U	N3-C4-C5	5.44	117.86	114.60
36	5	3030	G	OP2-P-O3'	5.44	117.16	105.20
36	5	3340	G	C8-N9-C4	-5.44	104.22	106.40
50	m4	66	THR	C-N-CD	5.44	139.82	128.40
1	2	1136	U	C2-N1-C1'	-5.44	111.18	117.70
36	1	1146	C	N3-C2-O2	5.44	125.70	121.90
1	6	1277	G	C5-C6-O6	-5.44	125.34	128.60
36	5	379	C	C2-N1-C1'	5.44	124.78	118.80
36	5	572	A	C4-C5-C6	5.44	119.72	117.00
36	5	1220	U	O4'-C1'-N1	-5.44	103.85	108.20
36	5	1877	U	N3-C4-C5	-5.44	111.34	114.60
36	5	2761	G	N9-C4-C5	5.44	107.58	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	39	G	C8-N9-C1'	-5.44	119.93	127.00
47	m0	76	MET	CG-SD-CE	-5.44	91.50	100.20
1	2	839	U	C6-N1-C2	-5.43	117.74	121.00
1	2	1414	U	O4'-C1'-N1	5.43	112.55	108.20
36	1	304	G	N9-C4-C5	5.43	107.57	105.40
36	1	1056	U	O5'-P-OP2	-5.43	100.81	105.70
36	1	1128	U	C2-N3-C4	-5.43	123.74	127.00
36	1	1199	C	N1-C2-N3	5.43	123.00	119.20
36	1	1520	G	C8-N9-C1'	-5.43	119.94	127.00
36	1	1543	G	C4-C5-N7	5.43	112.97	110.80
36	1	3276	G	N3-C4-C5	5.43	131.32	128.60
1	6	151	G	C8-N9-C1'	5.43	134.06	127.00
1	6	310	C	N3-C4-N4	5.43	121.80	118.00
1	6	953	G	C8-N9-C4	5.43	108.57	106.40
1	6	970	A	C5-C6-N6	-5.43	119.35	123.70
1	6	1177	C	N1-C2-O2	-5.43	115.64	118.90
1	6	1536	G	N1-C2-N2	-5.43	111.31	116.20
1	6	1629	G	N1-C6-O6	-5.43	116.64	119.90
36	5	574	U	OP1-P-O3'	-5.43	93.25	105.20
36	5	720	A	OP1-P-OP2	5.43	127.75	119.60
36	5	1391	C	C6-N1-C1'	-5.43	114.28	120.80
36	5	2371	G	N9-C4-C5	-5.43	103.23	105.40
37	7	79	A	OP1-P-OP2	5.43	127.75	119.60
38	8	99	C	C2-N1-C1'	5.43	124.78	118.80
1	2	1165	G	N9-C4-C5	-5.43	103.23	105.40
1	2	1479	A	N9-C4-C5	-5.43	103.63	105.80
36	1	537	A	C8-N9-C4	5.43	107.97	105.80
36	1	624	G	C8-N9-C1'	-5.43	119.94	127.00
36	1	746	A	OP2-P-O3'	5.43	117.15	105.20
36	1	804	C	C4-C5-C6	5.43	120.12	117.40
36	1	1148	G	C4-N9-C1'	-5.43	119.44	126.50
36	1	1308	A	C5-N7-C8	-5.43	101.18	103.90
36	1	1892	G	C4-C5-N7	-5.43	108.63	110.80
36	1	2118	C	C4-C5-C6	-5.43	114.68	117.40
36	1	2899	C	C5-C4-N4	5.43	124.00	120.20
38	4	112	U	N3-C2-O2	5.43	126.00	122.20
1	6	272	U	P-O3'-C3'	5.43	126.22	119.70
36	5	232	G	N9-C4-C5	5.43	107.57	105.40
36	5	353	G	OP1-P-OP2	5.43	127.75	119.60
36	5	401	U	C6-N1-C2	-5.43	117.74	121.00
36	5	884	A	C5-N7-C8	-5.43	101.18	103.90
36	5	1195	A	N3-C4-N9	-5.43	123.05	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1307	G	C6-N1-C2	-5.43	121.84	125.10
36	5	1415	U	OP1-P-O3'	5.43	117.15	105.20
36	5	1748	G	C6-C5-N7	-5.43	127.14	130.40
36	5	2262	A	OP2-P-O3'	5.43	117.15	105.20
36	1	1120	A	N1-C6-N6	-5.43	115.34	118.60
36	1	3022	G	C5-C6-O6	-5.43	125.34	128.60
36	5	437	G	N1-C2-N2	-5.43	111.31	116.20
36	5	617	G	N9-C4-C5	-5.43	103.23	105.40
36	5	2155	G	OP1-P-O3'	-5.43	93.25	105.20
36	5	2194	G	C4-N9-C1'	5.43	133.56	126.50
36	5	2618	G	C5-C6-O6	5.43	131.86	128.60
36	5	3194	C	N3-C2-O2	-5.43	118.10	121.90
37	7	111	U	N3-C4-O4	5.43	123.20	119.40
1	2	429	G	C8-N9-C4	-5.43	104.23	106.40
36	1	1748	G	O5'-P-OP1	-5.43	100.81	105.70
36	1	2907	G	OP2-P-O3'	5.43	117.15	105.20
36	1	3326	G	N1-C6-O6	-5.43	116.64	119.90
1	6	1586	A	C6-N1-C2	-5.43	115.34	118.60
36	5	352	A	N3-C4-C5	5.43	130.60	126.80
36	5	967	A	N7-C8-N9	5.43	116.52	113.80
36	5	1171	G	N3-C2-N2	-5.43	116.10	119.90
36	5	1361	U	OP2-P-O3'	5.43	117.14	105.20
36	5	1445	U	N1-C2-O2	-5.43	119.00	122.80
36	5	1906	G	N3-C2-N2	5.43	123.70	119.90
36	5	2656	A	C8-N9-C4	-5.43	103.63	105.80
36	5	2794	G	C4-C5-C6	-5.43	115.54	118.80
1	2	931	C	C5-C6-N1	5.43	123.71	121.00
36	1	233	C	N1-C2-O2	-5.43	115.64	118.90
36	1	2382	G	C5-C6-O6	5.43	131.86	128.60
36	1	2621	G	O5'-P-OP1	5.43	117.21	110.70
36	1	2705	A	O4'-C1'-N9	-5.43	103.86	108.20
36	1	2808	A	C4-N9-C1'	5.43	136.07	126.30
1	6	1504	G	C4-N9-C1'	5.43	133.56	126.50
1	6	1535	U	C4-C5-C6	5.43	122.96	119.70
36	5	2833	A	C8-N9-C4	5.43	107.97	105.80
36	5	2939	G	N1-C2-N2	5.43	121.08	116.20
36	5	3333	G	N7-C8-N9	-5.43	110.39	113.10
36	1	570	A	OP2-P-O3'	5.43	117.14	105.20
36	1	1140	G	N1-C2-N3	5.43	127.16	123.90
36	1	2240	G	C4-C5-C6	5.43	122.06	118.80
36	1	2751	G	OP1-P-OP2	5.43	127.74	119.60
36	1	2798	C	C5-C6-N1	5.43	123.71	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3168	A	O5'-P-OP2	-5.43	100.81	105.70
1	6	41	A	C4-C5-N7	-5.43	107.99	110.70
36	5	1115	G	C6-N1-C2	-5.43	121.84	125.10
36	5	2422	C	C4-C5-C6	5.43	120.11	117.40
36	5	2793	G	N1-C6-O6	5.43	123.16	119.90
36	5	2970	C	C4-C5-C6	5.43	120.11	117.40
36	5	3202	G	C5-C6-O6	5.43	131.85	128.60
37	7	112	G	C6-N1-C2	-5.43	121.84	125.10
38	8	111	A	C4-C5-N7	5.43	113.41	110.70
36	1	204	A	OP2-P-O3'	5.42	117.13	105.20
36	1	220	G	N3-C4-C5	5.42	131.31	128.60
36	1	2185	G	C4-N9-C1'	5.42	133.55	126.50
36	1	2963	C	C5-C6-N1	5.42	123.71	121.00
38	4	42	G	C8-N9-C4	5.42	108.57	106.40
1	6	1029	U	C6-N1-C1'	5.42	128.79	121.20
36	5	30	G	C5-N7-C8	-5.42	101.59	104.30
36	5	118	U	O5'-P-OP2	5.42	117.21	110.70
36	5	840	C	O5'-P-OP1	-5.42	100.82	105.70
36	5	903	U	C5-C4-O4	5.42	129.16	125.90
36	5	1107	C	C2-N1-C1'	5.42	124.77	118.80
36	5	1335	C	N3-C4-N4	5.42	121.80	118.00
36	5	1346	G	OP2-P-O3'	5.42	117.13	105.20
38	8	94	C	N3-C2-O2	5.42	125.70	121.90
1	2	1373	C	C2-N1-C1'	5.42	124.77	118.80
1	2	1789	G	N9-C4-C5	-5.42	103.23	105.40
36	1	1834	U	N3-C2-O2	5.42	126.00	122.20
36	5	1313	G	C8-N9-C4	-5.42	104.23	106.40
36	5	2727	A	C6-C5-N7	5.42	136.10	132.30
36	5	2777	G	C5-N7-C8	5.42	107.01	104.30
36	1	183	G	C4-N9-C1'	5.42	133.55	126.50
36	1	714	G	N1-C2-N2	-5.42	111.32	116.20
36	1	970	A	C6-N1-C2	-5.42	115.35	118.60
36	1	1167	U	C5-C6-N1	-5.42	119.99	122.70
36	1	1468	A	OP1-P-OP2	5.42	127.73	119.60
36	1	1601	U	C5-C6-N1	5.42	125.41	122.70
36	1	1826	C	N1-C2-O2	5.42	122.15	118.90
36	1	1877	U	C2-N3-C4	-5.42	123.75	127.00
36	1	2187	G	C2-N3-C4	-5.42	109.19	111.90
36	1	2691	A	C4-C5-N7	-5.42	107.99	110.70
36	1	2805	G	OP1-P-O3'	5.42	117.13	105.20
36	1	3026	G	C4-C5-C6	5.42	122.05	118.80
36	1	3278	C	C2-N1-C1'	5.42	124.76	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	57	C	N3-C2-O2	-5.42	118.11	121.90
1	6	35	U	N3-C4-O4	-5.42	115.61	119.40
17	c5	95	GLY	N-CA-C	-5.42	99.54	113.10
36	5	1177	G	O4'-C1'-N9	5.42	112.54	108.20
36	5	1209	G	C4-C5-C6	5.42	122.05	118.80
36	5	1782	U	N3-C4-O4	5.42	123.19	119.40
36	5	1861	G	N3-C4-C5	-5.42	125.89	128.60
36	5	2715	A	C2-N3-C4	5.42	113.31	110.60
36	5	2915	U	C2-N1-C1'	5.42	124.20	117.70
36	5	3100	U	C2-N3-C4	-5.42	123.75	127.00
36	5	3108	G	N1-C6-O6	5.42	123.15	119.90
1	2	1356	U	C5-C4-O4	5.42	129.15	125.90
1	2	1501	C	C5-C4-N4	-5.42	116.41	120.20
36	1	151	A	C4-C5-C6	5.42	119.71	117.00
36	1	2120	A	C5-C6-N1	5.42	120.41	117.70
36	1	2302	G	C8-N9-C4	-5.42	104.23	106.40
38	4	24	G	O5'-P-OP1	-5.42	100.82	105.70
1	6	1753	A	O5'-P-OP1	-5.42	100.82	105.70
21	c9	57	ARG	NE-CZ-NH1	5.42	123.01	120.30
36	5	635	G	C4-C5-N7	-5.42	108.63	110.80
36	5	1678	G	N7-C8-N9	5.42	115.81	113.10
36	5	2110	G	N3-C4-N9	5.42	129.25	126.00
36	5	2850	G	N1-C2-N2	-5.42	111.32	116.20
36	5	2976	A	C2-N3-C4	5.42	113.31	110.60
36	5	3268	A	C2-N3-C4	-5.42	107.89	110.60
37	7	101	G	N3-C4-C5	5.42	131.31	128.60
36	1	373	A	C4-C5-C6	5.42	119.71	117.00
36	1	379	C	O5'-P-OP2	-5.42	100.82	105.70
36	1	593	C	N3-C4-C5	-5.42	119.73	121.90
36	1	1481	A	C5-N7-C8	-5.42	101.19	103.90
36	1	1834	U	C6-N1-C1'	5.42	128.78	121.20
1	6	609	U	N3-C2-O2	-5.42	118.41	122.20
1	6	943	C	C6-N1-C2	5.42	122.47	120.30
36	5	601	U	C5-C6-N1	5.42	125.41	122.70
36	5	1163	A	C4-C5-C6	5.42	119.71	117.00
36	5	1897	G	N3-C2-N2	-5.42	116.11	119.90
36	5	2329	C	N1-C2-O2	-5.42	115.65	118.90
36	5	2752	U	C6-N1-C2	5.42	124.25	121.00
36	5	3229	G	N1-C2-N2	-5.42	111.32	116.20
36	5	3319	U	N3-C2-O2	-5.42	118.41	122.20
37	7	68	C	C6-N1-C2	-5.42	118.13	120.30
44	17	98	LYS	C-N-CD	5.42	139.78	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	100	A	N1-C6-N6	5.42	121.85	118.60
36	1	1000	C	N1-C2-O2	-5.42	115.65	118.90
36	1	1498	A	N1-C6-N6	-5.42	115.35	118.60
36	1	2187	G	C4-C5-C6	5.42	122.05	118.80
1	6	1138	A	C5-C6-N1	-5.42	114.99	117.70
1	6	1174	C	N1-C2-O2	5.42	122.15	118.90
36	5	349	A	C4-C5-N7	-5.42	107.99	110.70
36	5	575	G	N1-C6-O6	5.42	123.15	119.90
36	5	937	G	C5-C6-N1	5.42	114.21	111.50
36	5	1470	U	N3-C4-O4	5.42	123.19	119.40
36	5	1740	U	C6-N1-C2	5.42	124.25	121.00
36	5	2324	A	C6-N1-C2	5.42	121.85	118.60
36	5	2541	U	P-O3'-C3'	5.42	126.20	119.70
36	5	3261	C	N1-C2-O2	-5.42	115.65	118.90
38	8	132	G	N3-C4-N9	-5.42	122.75	126.00
36	1	684	G	N1-C6-O6	5.42	123.15	119.90
36	1	761	A	N1-C6-N6	5.42	121.85	118.60
36	1	908	G	C5-C6-N1	5.42	114.21	111.50
36	1	3110	C	N1-C2-O2	5.42	122.15	118.90
37	3	30	G	C4-N9-C1'	5.42	133.54	126.50
1	6	1327	C	O5'-P-OP2	-5.42	100.83	105.70
1	6	1633	A	C5-C6-N1	-5.42	114.99	117.70
36	5	1011	A	N7-C8-N9	5.42	116.51	113.80
36	5	2799	A	C4-C5-C6	5.42	119.71	117.00
36	5	2858	U	O5'-P-OP1	5.42	117.20	110.70
37	7	82	G	C6-N1-C2	-5.42	121.85	125.10
1	2	1785	U	N3-C2-O2	-5.41	118.41	122.20
36	1	299	G	N1-C6-O6	5.41	123.15	119.90
36	1	686	G	O4'-C1'-N9	5.41	112.53	108.20
36	1	975	C	N3-C4-N4	5.41	121.79	118.00
36	1	1203	A	N1-C6-N6	5.41	121.85	118.60
36	1	1314	C	C2-N1-C1'	5.41	124.75	118.80
36	1	1784	G	O5'-P-OP2	-5.41	100.83	105.70
36	1	2202	C	C2-N1-C1'	5.41	124.75	118.80
36	1	2628	A	C4-N9-C1'	5.41	136.04	126.30
36	1	2651	G	C2-N3-C4	-5.41	109.19	111.90
36	1	3216	G	C2-N3-C4	-5.41	109.19	111.90
38	4	24	G	C6-C5-N7	-5.41	127.15	130.40
1	6	370	A	C5-N7-C8	5.41	106.61	103.90
1	6	1111	G	C6-C5-N7	-5.41	127.15	130.40
1	6	1273	G	O4'-C1'-N9	5.41	112.53	108.20
36	5	282	G	C6-N1-C2	5.41	128.35	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1550	C	OP1-P-O3'	5.41	117.11	105.20
36	5	2265	C	N3-C4-N4	5.41	121.79	118.00
36	5	2360	C	C5-C6-N1	5.41	123.71	121.00
36	5	2600	C	C2-N1-C1'	5.41	124.76	118.80
36	5	2681	U	OP1-P-O3'	5.41	117.11	105.20
36	5	2944	U	C2-N1-C1'	5.41	124.20	117.70
36	5	3120	C	C2-N3-C4	-5.41	117.19	119.90
36	5	3229	G	C6-C5-N7	-5.41	127.15	130.40
37	7	82	G	N3-C4-C5	-5.41	125.89	128.60
1	2	1215	C	C6-N1-C2	-5.41	118.14	120.30
36	1	790	U	N1-C2-N3	5.41	118.15	114.90
36	1	2301	U	C6-N1-C2	-5.41	117.75	121.00
59	N3	63	LYS	CD-CE-NZ	5.41	124.15	111.70
1	6	1025	A	N7-C8-N9	5.41	116.51	113.80
1	6	1039	A	N7-C8-N9	5.41	116.51	113.80
1	6	1436	A	N1-C6-N6	5.41	121.85	118.60
36	5	631	U	O5'-P-OP2	-5.41	100.83	105.70
36	5	1316	C	N1-C2-O2	-5.41	115.65	118.90
36	5	1604	G	C4-N9-C1'	5.41	133.54	126.50
36	5	1653	G	C6-C5-N7	5.41	133.65	130.40
36	5	2868	U	N1-C2-O2	5.41	126.59	122.80
36	5	3189	G	N7-C8-N9	-5.41	110.39	113.10
36	5	3228	C	C4-C5-C6	5.41	120.11	117.40
1	2	250	C	N1-C2-O2	5.41	122.15	118.90
1	2	317	C	C4-C5-C6	5.41	120.11	117.40
1	2	1077	C	C2-N3-C4	5.41	122.61	119.90
1	2	1255	G	N1-C6-O6	-5.41	116.65	119.90
36	1	806	A	O4'-C1'-N9	-5.41	103.87	108.20
36	1	867	G	C8-N9-C1'	-5.41	119.97	127.00
36	1	943	U	C5-C6-N1	-5.41	120.00	122.70
36	1	1311	G	C4-C5-C6	5.41	122.05	118.80
36	1	1516	C	C6-N1-C2	-5.41	118.14	120.30
36	1	2289	U	C5-C6-N1	-5.41	120.00	122.70
36	1	2853	A	C4-C5-N7	5.41	113.41	110.70
36	1	3127	A	C6-N1-C2	-5.41	115.35	118.60
1	6	158	U	P-O3'-C3'	5.41	126.19	119.70
1	6	1116	A	N1-C2-N3	5.41	132.00	129.30
1	6	1137	A	C5-N7-C8	5.41	106.61	103.90
1	6	1200	G	C2-N3-C4	-5.41	109.19	111.90
1	6	1300	A	N1-C6-N6	5.41	121.85	118.60
36	5	875	G	C4-N9-C1'	-5.41	119.47	126.50
36	5	1147	G	C5-C6-O6	-5.41	125.35	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1313	G	C4-N9-C1'	5.41	133.53	126.50
36	5	1709	C	C2-N1-C1'	-5.41	112.85	118.80
36	5	2221	G	C2-N3-C4	-5.41	109.19	111.90
36	5	2411	U	N3-C4-C5	5.41	117.85	114.60
36	5	3046	A	C5-C6-N1	5.41	120.41	117.70
36	5	3246	G	C4-C5-N7	5.41	112.96	110.80
38	8	20	U	N1-C2-N3	5.41	118.15	114.90
1	2	566	C	C2-N1-C1'	-5.41	112.85	118.80
1	2	1793	G	OP1-P-O3'	5.41	117.10	105.20
36	1	667	C	C5-C4-N4	5.41	123.99	120.20
36	1	688	G	C6-N1-C2	-5.41	121.86	125.10
36	1	1395	G	OP2-P-O3'	5.41	117.10	105.20
36	1	1660	C	C5-C4-N4	-5.41	116.41	120.20
38	4	64	U	N3-C2-O2	-5.41	118.41	122.20
1	6	44	U	C2-N3-C4	-5.41	123.75	127.00
1	6	585	A	C5-C6-N6	-5.41	119.37	123.70
1	6	1529	C	O5'-P-OP1	5.41	117.19	110.70
1	6	1537	C	C5-C4-N4	5.41	123.99	120.20
36	5	677	A	O5'-P-OP2	5.41	117.19	110.70
36	5	1163	A	OP1-P-OP2	5.41	127.71	119.60
36	5	1402	C	C5-C6-N1	-5.41	118.30	121.00
36	5	1569	U	O4'-C1'-N1	5.41	112.53	108.20
36	5	3278	C	C5-C6-N1	-5.41	118.30	121.00
52	m6	140	LYS	CD-CE-NZ	5.41	124.14	111.70
1	2	370	A	C4-C5-N7	-5.41	108.00	110.70
1	2	1745	G	N9-C4-C5	-5.41	103.24	105.40
36	1	428	A	C5-N7-C8	-5.41	101.20	103.90
36	1	1213	G	C5-N7-C8	-5.41	101.60	104.30
36	1	1293	U	O5'-P-OP1	-5.41	100.83	105.70
36	1	2883	U	C2-N3-C4	5.41	130.24	127.00
37	3	30	G	N1-C6-O6	-5.41	116.66	119.90
1	6	1274	C	C5-C6-N1	5.41	123.70	121.00
36	5	391	A	C5-C6-N1	5.41	120.40	117.70
36	5	1134	G	C5-C6-O6	5.41	131.84	128.60
36	5	2653	C	C2-N1-C1'	-5.41	112.85	118.80
36	5	3338	C	N3-C4-C5	5.41	124.06	121.90
1	2	1780	G	C5-C6-N1	-5.41	108.80	111.50
36	1	23	A	N3-C4-N9	5.41	131.72	127.40
36	1	32	U	N3-C4-C5	5.41	117.84	114.60
36	1	42	C	C2-N1-C1'	5.41	124.75	118.80
36	1	99	A	C8-N9-C1'	5.41	137.43	127.70
36	1	1176	C	OP1-P-O3'	5.41	117.09	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1576	G	N3-C4-N9	5.41	129.24	126.00
36	1	2146	C	C6-N1-C2	-5.41	118.14	120.30
36	1	2281	A	P-O3'-C3'	-5.41	113.21	119.70
36	1	2623	G	C5-N7-C8	-5.41	101.60	104.30
36	1	2637	A	C5-C6-N6	5.41	128.02	123.70
36	1	2873	U	C5-C4-O4	5.41	129.14	125.90
36	1	3275	U	C5-C6-N1	5.41	125.40	122.70
1	6	695	U	C6-N1-C2	-5.41	117.76	121.00
1	6	1118	G	C8-N9-C4	5.41	108.56	106.40
1	6	1313	A	N7-C8-N9	5.41	116.50	113.80
1	6	1747	G	C5-C6-N1	-5.41	108.80	111.50
36	5	950	G	C4-C5-N7	5.41	112.96	110.80
36	5	973	A	C8-N9-C4	-5.41	103.64	105.80
36	5	1348	U	N3-C2-O2	-5.41	118.42	122.20
36	5	3119	U	N1-C2-O2	-5.41	119.02	122.80
36	5	3375	A	C6-N1-C2	-5.41	115.36	118.60
37	7	53	U	N3-C4-C5	-5.41	111.36	114.60
36	5	896	A	OP2-P-O3'	5.40	117.09	105.20
36	5	1606	U	O5'-P-OP1	-5.40	100.84	105.70
37	7	49	G	N9-C4-C5	-5.40	103.24	105.40
66	o0	86	ARG	NE-CZ-NH1	-5.40	117.60	120.30
1	2	120	U	C6-N1-C2	-5.40	117.76	121.00
36	1	246	U	C5-C4-O4	-5.40	122.66	125.90
36	1	1431	G	N3-C2-N2	5.40	123.68	119.90
36	1	2283	G	C5-C6-O6	-5.40	125.36	128.60
36	1	2688	U	C6-N1-C2	5.40	124.24	121.00
36	1	2860	U	C2'-C3'-O3'	5.40	122.34	113.70
36	1	2986	U	N3-C2-O2	5.40	125.98	122.20
37	3	26	C	C2-N3-C4	-5.40	117.20	119.90
38	4	80	A	P-O3'-C3'	5.40	126.18	119.70
36	5	322	U	C5-C4-O4	-5.40	122.66	125.90
36	5	345	G	C5-C6-O6	-5.40	125.36	128.60
36	5	699	A	N9-C4-C5	5.40	107.96	105.80
36	5	707	U	O5'-P-OP1	-5.40	100.84	105.70
36	5	1200	A	OP1-P-OP2	5.40	127.70	119.60
36	5	1344	G	N1-C2-N3	5.40	127.14	123.90
36	5	1681	U	C4-C5-C6	5.40	122.94	119.70
36	5	1772	U	C4-C5-C6	5.40	122.94	119.70
36	5	2142	A	C2-N3-C4	5.40	113.30	110.60
36	5	2858	U	C5-C6-N1	5.40	125.40	122.70
1	2	572	C	N3-C2-O2	5.40	125.68	121.90
1	2	865	A	N1-C2-N3	5.40	132.00	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	929	A	N1-C6-N6	-5.40	115.36	118.60
1	2	1282	U	C2-N3-C4	-5.40	123.76	127.00
1	2	1306	C	C5-C6-N1	5.40	123.70	121.00
36	1	622	A	N3-C4-C5	5.40	130.58	126.80
36	1	2433	U	N3-C4-O4	5.40	123.18	119.40
36	1	3028	G	C5-C6-O6	-5.40	125.36	128.60
1	6	65	A	C5-C6-N1	-5.40	115.00	117.70
1	6	561	G	N3-C4-C5	-5.40	125.90	128.60
1	6	858	G	C5-N7-C8	-5.40	101.60	104.30
1	6	884	A	C5-C6-N6	-5.40	119.38	123.70
1	6	1516	A	C5-C6-N1	5.40	120.40	117.70
36	5	1177	G	C5-C6-N1	5.40	114.20	111.50
36	5	1290	A	C4-C5-N7	5.40	113.40	110.70
36	5	1643	A	C8-N9-C4	-5.40	103.64	105.80
36	5	1837	U	N3-C2-O2	5.40	125.98	122.20
36	5	2255	A	C4-C5-N7	5.40	113.40	110.70
36	5	2376	G	C5-C6-N1	5.40	114.20	111.50
36	5	2609	A	N9-C4-C5	-5.40	103.64	105.80
36	5	2796	G	OP1-P-OP2	5.40	127.70	119.60
36	5	2836	C	N3-C2-O2	-5.40	118.12	121.90
36	5	2983	C	C6-N1-C2	-5.40	118.14	120.30
36	5	3036	G	C4-C5-C6	5.40	122.04	118.80
38	8	10	A	C8-N9-C4	5.40	107.96	105.80
1	2	260	U	C6-N1-C1'	-5.40	113.64	121.20
1	2	1665	U	N1-C2-O2	-5.40	119.02	122.80
36	1	788	C	C6-N1-C2	5.40	122.46	120.30
36	1	1342	C	C6-N1-C2	5.40	122.46	120.30
36	1	2325	G	N3-C4-N9	5.40	129.24	126.00
37	3	75	G	N3-C2-N2	-5.40	116.12	119.90
36	5	632	G	C4-C5-C6	5.40	122.04	118.80
38	8	70	G	C4-C5-N7	-5.40	108.64	110.80
1	2	1200	G	C8-N9-C1'	-5.40	119.98	127.00
1	2	1299	G	C8-N9-C4	-5.40	104.24	106.40
1	2	1455	G	C8-N9-C1'	-5.40	119.98	127.00
1	2	1601	G	O5'-P-OP2	-5.40	100.84	105.70
36	1	674	G	C2-N3-C4	-5.40	109.20	111.90
36	1	721	G	N7-C8-N9	5.40	115.80	113.10
36	1	1372	C	OP2-P-O3'	5.40	117.08	105.20
36	1	1807	G	C4-C5-N7	5.40	112.96	110.80
36	1	2365	C	C2-N3-C4	-5.40	117.20	119.90
36	1	2703	A	N9-C4-C5	5.40	107.96	105.80
36	1	2730	G	C5-C6-N1	-5.40	108.80	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3145	C	N3-C4-N4	5.40	121.78	118.00
36	1	3202	G	N7-C8-N9	-5.40	110.40	113.10
36	1	3221	C	O5'-P-OP2	5.40	117.18	110.70
1	6	58	U	C5-C6-N1	5.40	125.40	122.70
1	6	794	U	N3-C2-O2	-5.40	118.42	122.20
1	6	1097	U	P-O3'-C3'	5.40	126.18	119.70
36	5	57	A	N1-C2-N3	5.40	132.00	129.30
36	5	1100	U	C2-N3-C4	-5.40	123.76	127.00
36	5	1834	U	N3-C4-O4	5.40	123.18	119.40
36	5	2574	G	C5-C6-O6	-5.40	125.36	128.60
36	5	3264	G	C4-C5-N7	-5.40	108.64	110.80
37	7	9	C	C6-N1-C2	-5.40	118.14	120.30
1	2	176	C	C6-N1-C2	-5.40	118.14	120.30
36	1	421	G	C5-C6-O6	5.40	131.84	128.60
36	1	498	A	N1-C6-N6	5.40	121.84	118.60
36	1	2998	U	N3-C4-O4	5.40	123.18	119.40
36	5	1838	G	C8-N9-C1'	-5.40	119.98	127.00
1	2	847	A	N1-C6-N6	5.39	121.84	118.60
36	1	209	A	OP1-P-OP2	5.39	127.69	119.60
36	1	917	A	N3-C4-C5	-5.39	123.02	126.80
36	1	1523	U	C5-C6-N1	5.39	125.40	122.70
36	1	1928	G	O5'-P-OP1	5.39	117.17	110.70
36	1	3063	C	C4-C5-C6	5.39	120.10	117.40
38	4	110	C	N3-C4-N4	-5.39	114.22	118.00
1	6	717	C	C2-N1-C1'	5.39	124.73	118.80
1	6	958	U	C4-C5-C6	5.39	122.94	119.70
1	6	1471	A	N7-C8-N9	5.39	116.50	113.80
1	6	1478	G	N3-C4-N9	5.39	129.24	126.00
36	5	52	A	C4-C5-C6	5.39	119.70	117.00
36	5	344	A	N9-C4-C5	5.39	107.96	105.80
36	5	908	G	N1-C6-O6	-5.39	116.66	119.90
36	5	960	U	C2-N1-C1'	5.39	124.17	117.70
36	5	1763	U	N3-C2-O2	-5.39	118.42	122.20
36	5	2868	U	C5-C6-N1	5.39	125.40	122.70
36	5	3226	A	N9-C4-C5	5.39	107.96	105.80
1	2	115	G	C4-C5-N7	5.39	112.96	110.80
1	2	1418	G	N1-C6-O6	5.39	123.14	119.90
5	S3	109	LEU	CA-CB-CG	-5.39	102.89	115.30
36	1	1079	A	C6-N1-C2	-5.39	115.36	118.60
36	1	1135	A	C5-N7-C8	-5.39	101.20	103.90
36	1	2591	A	C8-N9-C4	-5.39	103.64	105.80
36	1	2638	C	N3-C2-O2	-5.39	118.12	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2785	A	C6-N1-C2	-5.39	115.36	118.60
36	1	2809	C	N3-C2-O2	5.39	125.67	121.90
36	1	2871	G	C4-N9-C1'	-5.39	119.49	126.50
36	1	2932	U	C5-C4-O4	5.39	129.14	125.90
36	1	3188	G	N7-C8-N9	-5.39	110.40	113.10
1	6	1318	G	C4-C5-N7	5.39	112.96	110.80
1	6	1546	G	C5-C6-O6	-5.39	125.36	128.60
36	5	652	G	N9-C4-C5	-5.39	103.24	105.40
36	5	3286	G	N9-C4-C5	-5.39	103.24	105.40
37	7	26	C	N3-C2-O2	-5.39	118.12	121.90
36	1	1121	U	C4-C5-C6	5.39	122.94	119.70
36	1	1184	A	C5-C6-N1	-5.39	115.00	117.70
36	1	1190	A	N3-C4-C5	-5.39	123.03	126.80
36	1	2870	C	N1-C2-N3	-5.39	115.43	119.20
37	3	8	G	N9-C4-C5	5.39	107.56	105.40
1	6	1588	G	N3-C2-N2	-5.39	116.13	119.90
36	5	314	U	OP1-P-OP2	5.39	127.69	119.60
36	5	2147	A	N9-C4-C5	-5.39	103.64	105.80
36	5	2812	C	N3-C4-N4	-5.39	114.23	118.00
37	7	87	G	O4'-C1'-N9	-5.39	103.89	108.20
1	2	424	C	N3-C2-O2	-5.39	118.13	121.90
1	2	730	G	N7-C8-N9	5.39	115.80	113.10
1	2	1140	G	N7-C8-N9	5.39	115.80	113.10
1	2	1596	C	N1-C2-O2	5.39	122.13	118.90
36	1	45	A	N9-C4-C5	5.39	107.96	105.80
36	1	1493	G	N9-C4-C5	5.39	107.56	105.40
36	1	1507	G	OP2-P-O3'	5.39	117.06	105.20
36	1	1516	C	N1-C2-O2	-5.39	115.67	118.90
36	1	2303	A	N1-C2-N3	5.39	132.00	129.30
36	1	2412	G	O5'-P-OP2	-5.39	100.85	105.70
36	1	2593	A	O4'-C1'-N9	-5.39	103.89	108.20
36	1	3124	G	N7-C8-N9	5.39	115.80	113.10
1	6	1619	C	C2-N1-C1'	5.39	124.73	118.80
36	5	298	U	C2-N1-C1'	5.39	124.17	117.70
36	5	366	A	C8-N9-C4	5.39	107.96	105.80
36	5	541	U	N3-C2-O2	5.39	125.97	122.20
36	5	1139	G	C2-N3-C4	-5.39	109.21	111.90
36	5	1709	C	C2-N3-C4	-5.39	117.20	119.90
36	5	2323	G	N3-C2-N2	-5.39	116.13	119.90
36	5	2863	G	N7-C8-N9	5.39	115.80	113.10
36	5	2918	G	C6-N1-C2	-5.39	121.87	125.10
36	5	3264	G	C5-C6-N1	-5.39	108.81	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3320	A	N1-C2-N3	5.39	132.00	129.30
1	2	425	A	C8-N9-C4	-5.39	103.64	105.80
36	1	1010	G	C2-N3-C4	-5.39	109.21	111.90
36	1	2415	C	N3-C4-C5	5.39	124.06	121.90
36	1	2785	A	C2-N3-C4	-5.39	107.91	110.60
1	6	185	U	C2-N1-C1'	5.39	124.17	117.70
1	6	660	G	C8-N9-C4	-5.39	104.25	106.40
1	6	1415	U	N1-C2-O2	5.39	126.57	122.80
36	5	1614	C	N1-C2-O2	5.39	122.13	118.90
36	5	2690	G	O5'-P-OP1	-5.39	100.85	105.70
1	2	1270	G	C6-C5-N7	-5.39	127.17	130.40
1	2	1273	G	C4-C5-N7	5.39	112.95	110.80
36	1	168	U	C5-C4-O4	5.39	129.13	125.90
36	1	946	U	C6-N1-C1'	-5.39	113.66	121.20
36	1	1514	G	N1-C2-N3	5.39	127.13	123.90
36	1	2935	U	C2-N3-C4	5.39	130.23	127.00
38	4	140	G	N7-C8-N9	5.39	115.79	113.10
58	N2	89	LEU	CA-CB-CG	5.39	127.69	115.30
1	6	523	G	C5-C6-O6	-5.39	125.37	128.60
1	6	1488	G	C5-N7-C8	5.39	106.99	104.30
36	5	226	C	C6-N1-C2	5.39	122.45	120.30
36	5	953	G	C4-C5-C6	-5.39	115.57	118.80
36	5	1822	C	C4-C5-C6	5.39	120.09	117.40
36	5	2304	C	N1-C2-N3	-5.39	115.43	119.20
36	5	2688	U	C2-N3-C4	-5.39	123.77	127.00
36	5	3377	G	OP2-P-O3'	5.39	117.05	105.20
36	5	3391	A	C5-C6-N6	5.39	128.01	123.70
37	7	87	G	N1-C6-O6	5.39	123.13	119.90
56	n0	167	ARG	C-N-CA	-5.39	99.38	122.00
1	2	275	C	C6-N1-C2	-5.38	118.15	120.30
1	2	1612	U	C6-N1-C2	-5.38	117.77	121.00
1	2	1615	C	C5-C6-N1	5.38	123.69	121.00
36	1	300	G	N1-C6-O6	-5.38	116.67	119.90
36	1	901	G	C5-C6-N1	5.38	114.19	111.50
36	1	1172	G	C4-N9-C1'	5.38	133.50	126.50
36	1	1300	G	N3-C4-N9	5.38	129.23	126.00
36	1	1406	A	C4-C5-C6	5.38	119.69	117.00
36	1	1897	G	N3-C4-C5	-5.38	125.91	128.60
36	1	2403	G	N7-C8-N9	5.38	115.79	113.10
36	1	3049	A	O5'-P-OP2	5.38	117.16	110.70
1	6	616	G	C4-C5-N7	5.38	112.95	110.80
1	6	1001	A	N3-C4-N9	5.38	131.71	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1171	A	N9-C4-C5	5.38	107.95	105.80
36	5	772	U	N3-C4-O4	5.38	123.17	119.40
36	5	984	G	N1-C6-O6	5.38	123.13	119.90
36	5	1320	C	OP1-P-O3'	-5.38	93.35	105.20
36	5	1858	A	N9-C4-C5	-5.38	103.65	105.80
36	5	2253	G	C8-N9-C1'	-5.38	120.00	127.00
36	5	2965	U	N3-C4-O4	5.38	123.17	119.40
36	5	3028	G	N1-C2-N3	5.38	127.13	123.90
36	5	3315	G	C5-C6-N1	5.38	114.19	111.50
36	1	1346	G	O5'-P-OP1	5.38	117.16	110.70
36	1	1385	C	C5-C6-N1	-5.38	118.31	121.00
36	1	2234	G	N7-C8-N9	-5.38	110.41	113.10
36	1	2956	A	C4-C5-C6	5.38	119.69	117.00
1	6	75	U	N3-C2-O2	-5.38	118.43	122.20
1	6	420	A	OP1-P-OP2	-5.38	111.53	119.60
1	6	1177	C	N3-C4-N4	5.38	121.77	118.00
36	5	162	G	N7-C8-N9	-5.38	110.41	113.10
36	5	1043	C	C2-N1-C1'	-5.38	112.88	118.80
36	5	1353	U	OP1-P-OP2	-5.38	111.53	119.60
36	5	2114	C	OP1-P-OP2	5.38	127.67	119.60
36	5	2364	G	C6-N1-C2	-5.38	121.87	125.10
36	5	2864	A	C8-N9-C4	5.38	107.95	105.80
36	1	624	G	N1-C6-O6	5.38	123.13	119.90
36	1	862	U	C6-N1-C1'	-5.38	113.67	121.20
36	1	958	C	N3-C4-N4	5.38	121.77	118.00
36	1	1203	A	C2-N3-C4	-5.38	107.91	110.60
36	1	1355	A	N3-C4-C5	5.38	130.57	126.80
36	1	1581	C	N1-C2-O2	5.38	122.13	118.90
36	1	1667	A	N7-C8-N9	5.38	116.49	113.80
36	1	2329	C	C4-C5-C6	5.38	120.09	117.40
75	O9	46	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	6	101	U	N3-C4-O4	-5.38	115.63	119.40
1	6	387	A	C4-C5-N7	-5.38	108.01	110.70
1	6	1311	U	N1-C2-O2	-5.38	119.03	122.80
36	5	518	G	N1-C6-O6	5.38	123.13	119.90
36	5	617	G	O5'-P-OP2	5.38	117.16	110.70
36	5	1158	A	C5-N7-C8	5.38	106.59	103.90
36	5	1166	G	N3-C4-N9	-5.38	122.77	126.00
36	5	1389	G	N1-C6-O6	5.38	123.13	119.90
36	5	1397	C	N3-C4-C5	-5.38	119.75	121.90
36	5	1414	G	C8-N9-C4	-5.38	104.25	106.40
36	5	1757	A	C5-C6-N1	-5.38	115.01	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2391	G	C8-N9-C4	5.38	108.55	106.40
1	2	145	A	C8-N9-C4	-5.38	103.65	105.80
1	2	1346	A	N7-C8-N9	5.38	116.49	113.80
36	1	193	C	N3-C2-O2	5.38	125.67	121.90
36	1	1886	A	C4-C5-C6	-5.38	114.31	117.00
36	1	2410	U	C5-C6-N1	5.38	125.39	122.70
36	1	3052	G	N3-C2-N2	-5.38	116.13	119.90
36	1	3097	C	O5'-P-OP1	-5.38	100.86	105.70
37	3	50	U	N3-C2-O2	-5.38	118.43	122.20
1	6	1513	G	C4-N9-C1'	5.38	133.49	126.50
36	5	796	U	C6-N1-C2	-5.38	117.77	121.00
36	5	1172	G	N7-C8-N9	5.38	115.79	113.10
36	5	1889	G	O5'-P-OP2	-5.38	100.86	105.70
36	5	2294	U	C6-N1-C2	5.38	124.23	121.00
36	5	3015	G	N1-C2-N2	5.38	121.04	116.20
36	5	3044	G	C5-N7-C8	-5.38	101.61	104.30
36	5	3157	U	C6-N1-C1'	-5.38	113.67	121.20
36	5	3318	G	O5'-P-OP1	-5.38	100.86	105.70
37	7	50	U	C2-N1-C1'	5.38	124.16	117.70
1	2	75	U	C6-N1-C1'	-5.38	113.67	121.20
1	2	1596	C	C6-N1-C2	-5.38	118.15	120.30
36	1	891	G	N3-C4-N9	-5.38	122.77	126.00
36	1	1137	C	O5'-P-OP2	-5.38	100.86	105.70
36	1	2120	A	C4-C5-N7	-5.38	108.01	110.70
36	1	2371	G	C8-N9-C1'	-5.38	120.01	127.00
36	1	2598	G	N3-C4-C5	-5.38	125.91	128.60
36	1	2669	G	N3-C4-C5	5.38	131.29	128.60
36	1	2901	G	N3-C4-C5	-5.38	125.91	128.60
36	1	2962	U	N1-C2-N3	-5.38	111.67	114.90
36	1	3098	G	N3-C4-N9	5.38	129.23	126.00
36	1	3230	G	N1-C2-N2	5.38	121.04	116.20
36	5	526	C	C5-C6-N1	-5.38	118.31	121.00
36	5	1364	C	P-O3'-C3'	5.38	126.15	119.70
36	5	1640	G	C8-N9-C4	-5.38	104.25	106.40
36	5	2692	A	C8-N9-C4	-5.38	103.65	105.80
36	5	2752	U	C2-N1-C1'	-5.38	111.25	117.70
36	5	2966	G	C4-C5-N7	-5.38	108.65	110.80
36	5	3180	A	N7-C8-N9	-5.38	111.11	113.80
46	19	38	LEU	CB-CG-CD2	-5.38	101.86	111.00
1	2	472	U	O4'-C1'-N1	5.38	112.50	108.20
1	2	1490	C	C6-N1-C1'	-5.38	114.35	120.80
36	1	659	G	OP1-P-O3'	-5.38	93.37	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1751	G	C6-C5-N7	5.38	133.62	130.40
36	1	1844	C	O5'-P-OP1	-5.38	100.86	105.70
36	1	2632	G	OP1-P-O3'	5.38	117.03	105.20
36	1	3202	G	N3-C4-C5	5.38	131.29	128.60
38	4	3	A	N3-C4-N9	5.38	131.70	127.40
1	6	397	A	C8-N9-C4	5.38	107.95	105.80
1	6	433	C	C6-N1-C1'	-5.38	114.35	120.80
1	6	619	A	O4'-C1'-N9	5.38	112.50	108.20
36	5	656	A	C6-C5-N7	-5.38	128.54	132.30
36	5	658	G	C4-C5-N7	5.38	112.95	110.80
36	5	1208	U	C6-N1-C1'	5.38	128.73	121.20
36	5	1466	G	C5-C6-O6	-5.38	125.37	128.60
36	5	1517	G	N3-C4-C5	5.38	131.29	128.60
36	5	2841	G	C4-C5-N7	-5.38	108.65	110.80
36	5	2955	U	C6-N1-C2	-5.38	117.77	121.00
36	5	2984	C	OP2-P-O3'	5.38	117.03	105.20
36	5	3069	G	N9-C4-C5	-5.38	103.25	105.40
1	2	1109	G	C5-N7-C8	-5.38	101.61	104.30
38	4	27	U	C2-N1-C1'	5.38	124.15	117.70
36	5	1112	A	C4-N9-C1'	5.38	135.97	126.30
36	5	2979	U	OP2-P-O3'	5.38	117.03	105.20
1	2	548	G	C5-C6-O6	-5.37	125.38	128.60
1	2	1466	G	C5-C6-O6	-5.37	125.38	128.60
36	1	186	U	C4-C5-C6	-5.37	116.48	119.70
36	1	411	U	N3-C4-C5	-5.37	111.38	114.60
36	1	892	U	N1-C2-O2	5.37	126.56	122.80
36	1	1506	A	C8-N9-C4	-5.37	103.65	105.80
36	1	1559	A	N7-C8-N9	5.37	116.49	113.80
36	1	1784	G	N3-C4-N9	-5.37	122.78	126.00
36	1	1884	A	N9-C4-C5	5.37	107.95	105.80
36	1	1899	G	N7-C8-N9	5.37	115.79	113.10
36	1	2366	C	O5'-P-OP2	-5.37	100.86	105.70
36	1	2843	U	C5-C4-O4	-5.37	122.68	125.90
37	3	107	C	N3-C4-C5	5.37	124.05	121.90
60	N4	80	ARG	C-N-CA	5.37	144.56	122.00
1	6	1282	U	C4-C5-C6	5.37	122.92	119.70
36	5	522	A	O5'-P-OP2	-5.37	100.86	105.70
36	5	2708	C	C2-N3-C4	-5.37	117.21	119.90
36	5	2710	C	N3-C4-N4	5.37	121.76	118.00
36	5	2759	U	O4'-C1'-N1	-5.37	103.90	108.20
36	5	3120	C	N1-C2-O2	5.37	122.12	118.90
55	m9	62	ARG	NE-CZ-NH1	5.37	122.99	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	60	U	N1-C2-O2	5.37	126.56	122.80
1	2	1299	G	C2-N3-C4	5.37	114.58	111.90
1	2	1589	C	C2-N3-C4	-5.37	117.21	119.90
1	2	1752	U	O5'-P-OP2	-5.37	100.87	105.70
36	1	347	G	C8-N9-C4	5.37	108.55	106.40
36	1	757	C	O5'-P-OP1	5.37	117.15	110.70
36	1	960	U	P-O3'-C3'	5.37	126.14	119.70
36	1	1119	C	C4-C5-C6	5.37	120.09	117.40
36	1	1172	G	C6-N1-C2	-5.37	121.88	125.10
36	1	1478	C	C4-C5-C6	5.37	120.09	117.40
36	1	2293	C	C5-C6-N1	5.37	123.69	121.00
36	1	3237	U	N3-C2-O2	-5.37	118.44	122.20
36	1	3240	C	C2-N3-C4	-5.37	117.21	119.90
1	6	430	G	N1-C2-N2	-5.37	111.37	116.20
1	6	1335	U	C5-C4-O4	5.37	129.12	125.90
36	5	118	U	O5'-P-OP1	-5.37	100.87	105.70
36	5	785	G	N7-C8-N9	5.37	115.78	113.10
36	5	842	G	N1-C6-O6	-5.37	116.68	119.90
36	5	1671	C	C6-N1-C2	-5.37	118.15	120.30
36	5	2172	A	C8-N9-C4	-5.37	103.65	105.80
36	5	2759	U	C2-N1-C1'	5.37	124.14	117.70
36	5	2801	A	C5-C6-N6	-5.37	119.40	123.70
36	5	3072	C	N3-C4-N4	5.37	121.76	118.00
1	2	536	C	C5-C6-N1	5.37	123.69	121.00
36	1	55	G	C5-C6-O6	-5.37	125.38	128.60
36	1	300	G	C8-N9-C1'	5.37	133.98	127.00
36	1	1416	C	C2-N1-C1'	-5.37	112.89	118.80
36	1	2339	C	O4'-C1'-N1	-5.37	103.90	108.20
36	1	2598	G	C5-C6-O6	-5.37	125.38	128.60
36	1	2855	U	N1-C2-N3	5.37	118.12	114.90
36	1	3001	C	N3-C4-C5	5.37	124.05	121.90
36	5	1770	G	C4-N9-C1'	5.37	133.48	126.50
36	5	2643	A	N7-C8-N9	-5.37	111.11	113.80
36	5	2976	A	C5-C6-N6	-5.37	119.40	123.70
1	2	1306	C	C6-N1-C2	-5.37	118.15	120.30
36	1	803	C	C6-N1-C1'	-5.37	114.36	120.80
36	1	2195	C	N1-C2-O2	-5.37	115.68	118.90
36	1	2216	G	C8-N9-C4	-5.37	104.25	106.40
36	1	2353	G	C8-N9-C1'	-5.37	120.02	127.00
37	3	107	C	N3-C4-N4	-5.37	114.24	118.00
1	6	331	A	N7-C8-N9	5.37	116.48	113.80
1	6	356	G	C5-C6-N1	5.37	114.18	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1101	G	C4-N9-C1'	5.37	133.48	126.50
1	6	1673	G	N7-C8-N9	-5.37	110.42	113.10
29	d7	41	LEU	CA-CB-CG	5.37	127.65	115.30
36	5	235	A	C2-N3-C4	-5.37	107.92	110.60
36	5	366	A	C5-C6-N1	-5.37	115.02	117.70
36	5	800	G	O4'-C1'-N9	-5.37	103.91	108.20
36	5	816	A	C5-C6-N6	5.37	127.99	123.70
36	5	1077	U	N3-C2-O2	5.37	125.96	122.20
36	5	2101	C	N1-C2-O2	5.37	122.12	118.90
36	5	2294	U	N1-C2-O2	5.37	126.56	122.80
36	5	2702	A	N9-C4-C5	5.37	107.95	105.80
36	5	2789	U	C2-N1-C1'	-5.37	111.26	117.70
1	2	1661	U	OP2-P-O3'	5.37	117.01	105.20
36	1	1401	A	C8-N9-C1'	-5.37	118.04	127.70
36	1	3093	C	N1-C2-O2	-5.37	115.68	118.90
36	1	3246	G	N7-C8-N9	5.37	115.78	113.10
1	6	61	A	C4-C5-C6	5.37	119.68	117.00
1	6	1727	G	C4-C5-N7	-5.37	108.65	110.80
36	5	1316	C	OP1-P-O3'	5.37	117.01	105.20
36	5	1891	A	N7-C8-N9	-5.37	111.12	113.80
36	5	2925	C	O5'-P-OP2	5.37	117.14	110.70
36	5	3326	G	C8-N9-C1'	-5.37	120.02	127.00
54	m8	179	ARG	NE-CZ-NH2	-5.37	117.62	120.30
36	1	347	G	N9-C4-C5	-5.37	103.25	105.40
36	1	372	A	N1-C2-N3	5.37	131.98	129.30
36	1	709	A	N9-C4-C5	-5.37	103.65	105.80
36	1	733	G	C5-N7-C8	-5.37	101.62	104.30
36	1	741	U	N3-C2-O2	5.37	125.96	122.20
36	1	856	G	C4-N9-C1'	5.37	133.47	126.50
36	1	1114	U	C2-N3-C4	5.37	130.22	127.00
36	1	2207	A	N3-C4-C5	-5.37	123.04	126.80
36	1	2516	U	C5-C6-N1	-5.37	120.02	122.70
36	1	3150	A	C2-N3-C4	-5.37	107.92	110.60
36	1	3241	G	N1-C6-O6	-5.37	116.68	119.90
36	1	3325	G	N9-C1'-C2'	-5.37	106.10	112.00
1	6	31	C	O5'-P-OP1	5.37	117.14	110.70
1	6	899	G	C8-N9-C4	5.37	108.55	106.40
1	6	1241	G	C4-C5-N7	5.37	112.95	110.80
1	6	1646	C	C4-C5-C6	5.37	120.08	117.40
36	5	1450	G	N1-C2-N3	5.37	127.12	123.90
36	5	1734	G	N1-C6-O6	-5.37	116.68	119.90
36	5	1794	G	OP1-P-OP2	5.37	127.65	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2878	G	OP1-P-O3'	5.37	117.00	105.20
36	5	2940	A	C4-C5-N7	5.37	113.38	110.70
36	5	2960	C	P-O3'-C3'	5.37	126.14	119.70
37	7	34	C	O4'-C1'-N1	5.37	112.49	108.20
38	8	45	C	C6-N1-C2	5.37	122.45	120.30
1	2	694	U	N1-C2-O2	5.36	126.56	122.80
1	2	755	A	N1-C6-N6	-5.36	115.38	118.60
1	2	959	U	N1-C2-O2	5.36	126.56	122.80
1	2	1291	G	N1-C2-N2	-5.36	111.37	116.20
1	2	1584	G	N3-C4-C5	5.36	131.28	128.60
36	1	2135	U	O5'-P-OP2	-5.36	100.87	105.70
36	1	2190	U	N1-C2-O2	-5.36	119.05	122.80
36	1	3209	A	C4-C5-C6	5.36	119.68	117.00
36	1	3253	G	N3-C4-C5	5.36	131.28	128.60
36	1	3284	G	N9-C4-C5	5.36	107.55	105.40
36	1	3308	C	N3-C2-O2	-5.36	118.15	121.90
37	3	111	U	C6-N1-C2	-5.36	117.78	121.00
1	6	323	A	N7-C8-N9	5.36	116.48	113.80
1	6	1111	G	N3-C4-N9	5.36	129.22	126.00
1	6	1285	U	C5-C6-N1	5.36	125.38	122.70
1	6	1583	A	C4-C5-N7	-5.36	108.02	110.70
1	6	1665	U	C2-N1-C1'	-5.36	111.26	117.70
36	5	183	G	C5-C6-O6	5.36	131.82	128.60
36	5	324	A	C4-N9-C1'	5.36	135.96	126.30
36	5	1376	C	C6-N1-C1'	-5.36	114.36	120.80
36	5	1858	A	C8-N9-C1'	-5.36	118.05	127.70
36	5	1916	U	C5-C6-N1	-5.36	120.02	122.70
36	5	2289	U	C5-C6-N1	-5.36	120.02	122.70
36	5	3077	A	N3-C4-N9	-5.36	123.11	127.40
36	5	3293	U	O5'-P-OP1	-5.36	100.87	105.70
36	5	3294	A	C6-N1-C2	-5.36	115.38	118.60
36	5	3307	A	C8-N9-C4	5.36	107.94	105.80
1	2	1010	C	C6-N1-C1'	5.36	127.23	120.80
1	2	1753	A	C5-C6-N6	-5.36	119.41	123.70
36	1	1208	U	N1-C2-N3	-5.36	111.68	114.90
36	1	1589	A	O4'-C1'-N9	-5.36	103.91	108.20
36	1	3305	A	OP1-P-O3'	-5.36	93.40	105.20
38	4	32	C	C4-C5-C6	5.36	120.08	117.40
36	5	201	A	N1-C6-N6	5.36	121.82	118.60
36	5	685	G	N9-C4-C5	-5.36	103.25	105.40
36	5	881	C	C5-C6-N1	5.36	123.68	121.00
36	5	979	U	C6-N1-C1'	5.36	128.71	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2907	G	OP2-P-O3'	5.36	117.00	105.20
56	n0	166	LYS	CD-CE-NZ	5.36	124.03	111.70
1	2	402	C	C4-C5-C6	5.36	120.08	117.40
1	2	428	A	O4'-C1'-N9	5.36	112.49	108.20
36	1	217	U	N3-C4-C5	-5.36	111.38	114.60
36	1	383	G	N3-C4-N9	5.36	129.22	126.00
36	1	1481	A	C6-C5-N7	-5.36	128.55	132.30
36	1	1646	G	N3-C4-C5	5.36	131.28	128.60
36	1	1670	C	N3-C4-C5	5.36	124.04	121.90
36	1	3151	U	N3-C4-O4	-5.36	115.65	119.40
36	1	3394	U	C6-N1-C2	-5.36	117.78	121.00
38	4	101	U	C2-N1-C1'	5.36	124.13	117.70
1	6	1516	A	O4'-C1'-N9	5.36	112.49	108.20
1	6	1657	U	N1-C2-O2	5.36	126.55	122.80
36	5	58	G	C5-C6-N1	-5.36	108.82	111.50
36	5	545	U	N1-C2-N3	-5.36	111.68	114.90
36	5	860	G	N1-C2-N3	-5.36	120.68	123.90
36	5	875	G	N9-C1'-C2'	-5.36	106.10	112.00
36	5	1130	A	C5-C6-N1	5.36	120.38	117.70
36	5	1542	G	C5-N7-C8	-5.36	101.62	104.30
36	5	2338	C	C6-N1-C2	-5.36	118.16	120.30
36	5	2597	U	C5-C4-O4	5.36	129.12	125.90
36	5	2617	U	N3-C2-O2	-5.36	118.45	122.20
36	5	2900	A	OP2-P-O3'	5.36	116.99	105.20
1	2	360	A	N9-C4-C5	-5.36	103.66	105.80
1	2	551	G	N3-C2-N2	-5.36	116.15	119.90
36	1	1578	C	C5-C6-N1	5.36	123.68	121.00
36	1	2941	A	N3-C4-N9	5.36	131.69	127.40
1	6	683	C	N1-C2-O2	5.36	122.12	118.90
1	6	1060	U	N3-C2-O2	-5.36	118.45	122.20
1	6	1609	U	N3-C2-O2	5.36	125.95	122.20
36	5	657	A	C2-N3-C4	5.36	113.28	110.60
36	5	784	A	N9-C4-C5	-5.36	103.66	105.80
36	5	1590	G	N9-C4-C5	-5.36	103.26	105.40
36	5	2165	G	N3-C4-C5	-5.36	125.92	128.60
36	5	2850	G	C6-N1-C2	-5.36	121.89	125.10
36	5	2945	G	N3-C4-C5	-5.36	125.92	128.60
37	7	90	U	C2-N1-C1'	5.36	124.13	117.70
1	2	614	C	C6-N1-C2	-5.36	118.16	120.30
36	1	324	A	C8-N9-C4	-5.36	103.66	105.80
36	1	923	C	C5-C6-N1	-5.36	118.32	121.00
36	1	1310	G	C8-N9-C4	-5.36	104.26	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1929	G	N1-C2-N2	-5.36	111.38	116.20
49	M3	110	ASP	CB-CG-OD1	-5.36	113.48	118.30
1	6	796	A	O5'-P-OP2	-5.36	100.88	105.70
1	6	1167	G	C8-N9-C1'	-5.36	120.03	127.00
36	5	38	U	N1-C2-N3	-5.36	111.69	114.90
36	5	413	U	C6-N1-C2	5.36	124.22	121.00
36	5	1160	C	C2-N1-C1'	-5.36	112.91	118.80
36	5	1292	C	C2-N3-C4	-5.36	117.22	119.90
36	5	1888	U	OP2-P-O3'	5.36	116.98	105.20
36	5	2120	A	N1-C6-N6	5.36	121.81	118.60
36	5	2135	U	N3-C2-O2	-5.36	118.45	122.20
36	5	2143	A	OP1-P-O3'	5.36	116.99	105.20
36	5	2399	A	C8-N9-C1'	5.36	137.34	127.70
36	5	2751	G	C8-N9-C4	-5.36	104.26	106.40
36	5	2974	U	C5-C6-N1	-5.36	120.02	122.70
36	5	3269	U	P-O3'-C3'	5.36	126.13	119.70
36	1	211	A	C6-C5-N7	5.36	136.05	132.30
36	1	606	C	N3-C4-C5	-5.36	119.76	121.90
36	1	988	U	C5-C6-N1	-5.36	120.02	122.70
36	1	1148	G	C8-N9-C1'	5.36	133.96	127.00
36	1	1764	U	P-O3'-C3'	5.36	126.13	119.70
36	1	2269	U	N1-C2-N3	5.36	118.11	114.90
36	1	2415	C	C5-C6-N1	-5.36	118.32	121.00
36	1	3051	U	C6-N1-C2	-5.36	117.79	121.00
36	1	3180	A	N1-C2-N3	5.36	131.98	129.30
36	1	3313	U	O5'-P-OP1	5.36	117.13	110.70
38	4	39	G	C5-C6-N1	5.36	114.18	111.50
1	6	797	G	N3-C4-C5	5.36	131.28	128.60
1	6	1473	U	C2-N3-C4	-5.36	123.79	127.00
1	6	1548	G	N7-C8-N9	-5.36	110.42	113.10
1	6	1638	G	C8-N9-C4	-5.36	104.26	106.40
36	5	146	U	N1-C2-O2	5.36	126.55	122.80
36	5	1413	G	C8-N9-C4	5.36	108.54	106.40
36	5	1436	U	N3-C2-O2	-5.36	118.45	122.20
36	5	1881	A	N1-C6-N6	5.36	121.81	118.60
36	5	2209	U	C2-N1-C1'	-5.36	111.27	117.70
36	5	2283	G	O5'-P-OP1	-5.36	100.88	105.70
36	5	2325	G	C5-C6-N1	-5.36	108.82	111.50
36	5	2388	U	OP1-P-OP2	-5.36	111.57	119.60
36	5	3178	A	O5'-P-OP2	-5.36	100.88	105.70
38	8	13	A	O5'-P-OP1	5.36	117.13	110.70
1	2	600	U	N1-C2-O2	-5.35	119.05	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1183	A	C4-C5-C6	-5.35	114.32	117.00
12	C0	15	LEU	CA-CB-CG	-5.35	102.99	115.30
36	1	316	U	N3-C4-O4	5.35	123.15	119.40
36	1	997	A	C5-C6-N1	5.35	120.38	117.70
36	1	1324	U	C5-C6-N1	-5.35	120.02	122.70
36	1	1646	G	C8-N9-C4	5.35	108.54	106.40
36	1	2754	G	N9-C4-C5	-5.35	103.26	105.40
36	1	2791	G	C8-N9-C4	-5.35	104.26	106.40
36	1	3182	G	N3-C2-N2	5.35	123.65	119.90
1	6	998	A	C4-C5-N7	-5.35	108.02	110.70
36	5	1838	G	C5-C6-O6	-5.35	125.39	128.60
36	5	2676	A	C5-N7-C8	-5.35	101.22	103.90
1	2	1010	C	N1-C2-O2	-5.35	115.69	118.90
1	2	1237	G	C4-C5-N7	-5.35	108.66	110.80
36	1	619	A	N9-C4-C5	-5.35	103.66	105.80
36	1	915	A	N7-C8-N9	5.35	116.48	113.80
36	1	1140	G	N9-C4-C5	-5.35	103.26	105.40
36	1	2134	G	C5-C6-N1	-5.35	108.82	111.50
36	1	2371	G	C5-N7-C8	5.35	106.98	104.30
36	1	2376	G	N1-C6-O6	-5.35	116.69	119.90
36	1	2619	G	C2-N3-C4	5.35	114.58	111.90
36	1	2966	G	C6-C5-N7	-5.35	127.19	130.40
36	1	3032	A	C5-C6-N6	5.35	127.98	123.70
36	1	3096	C	C5-C6-N1	5.35	123.68	121.00
1	6	42	G	C4-C5-N7	5.35	112.94	110.80
1	6	104	A	C5-C6-N6	-5.35	119.42	123.70
1	6	151	G	C5-C6-N1	-5.35	108.82	111.50
1	6	1001	A	C2-N3-C4	5.35	113.28	110.60
36	5	2745	G	N3-C4-N9	5.35	129.21	126.00
36	5	2794	G	OP1-P-OP2	5.35	127.63	119.60
76	q0	108	THR	N-CA-C	-5.35	96.55	111.00
1	2	864	U	N3-C2-O2	-5.35	118.45	122.20
36	1	182	U	C2-N1-C1'	-5.35	111.28	117.70
36	1	2988	C	N3-C4-N4	-5.35	114.25	118.00
36	1	3306	U	C6-N1-C1'	-5.35	113.71	121.20
1	6	1027	A	N9-C4-C5	5.35	107.94	105.80
36	5	2623	G	P-O3'-C3'	-5.35	113.28	119.70
37	7	32	U	O5'-P-OP2	-5.35	100.88	105.70
1	2	399	A	C5-N7-C8	5.35	106.58	103.90
1	2	612	U	O5'-P-OP1	5.35	117.12	110.70
1	2	978	A	C8-N9-C4	-5.35	103.66	105.80
1	2	1673	G	N3-C4-N9	5.35	129.21	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	135	C	C6-N1-C2	-5.35	118.16	120.30
36	1	933	A	OP1-P-OP2	5.35	127.62	119.60
36	1	1180	A	C8-N9-C1'	5.35	137.33	127.70
36	1	1417	G	N3-C4-C5	5.35	131.28	128.60
36	1	1440	G	N1-C2-N2	-5.35	111.39	116.20
36	1	3278	C	C6-N1-C1'	-5.35	114.38	120.80
38	4	54	A	C6-N1-C2	-5.35	115.39	118.60
1	6	185	U	C6-N1-C1'	-5.35	113.71	121.20
1	6	592	A	C2-N3-C4	5.35	113.28	110.60
36	5	865	U	OP1-P-OP2	-5.35	111.58	119.60
36	5	2713	U	C2-N3-C4	5.35	130.21	127.00
36	5	2981	U	C4-C5-C6	5.35	122.91	119.70
36	5	3020	U	C5-C4-O4	-5.35	122.69	125.90
37	7	51	A	N7-C8-N9	5.35	116.47	113.80
1	2	1455	G	C4-C5-C6	5.35	122.01	118.80
1	2	1758	U	C2-N1-C1'	5.35	124.12	117.70
36	1	213	A	O5'-P-OP1	-5.35	100.89	105.70
36	1	407	A	C5-C6-N1	5.35	120.37	117.70
36	1	1163	A	C5-C6-N6	-5.35	119.42	123.70
36	1	2139	A	C4-C5-C6	5.35	119.67	117.00
36	1	2382	G	N1-C2-N2	-5.35	111.39	116.20
1	6	609	U	C2-N3-C4	-5.35	123.79	127.00
36	5	57	A	O5'-P-OP2	-5.35	100.89	105.70
36	5	188	U	C5-C6-N1	5.35	125.37	122.70
36	5	1147	G	N3-C2-N2	5.35	123.64	119.90
36	5	1164	G	N1-C2-N2	5.35	121.01	116.20
36	5	1428	A	OP1-P-O3'	5.35	116.96	105.20
36	5	1476	G	C5-C6-O6	-5.35	125.39	128.60
36	5	1532	C	C4-C5-C6	5.35	120.07	117.40
36	5	2322	C	C4-C5-C6	5.35	120.07	117.40
36	5	3309	G	N9-C1'-C2'	-5.35	106.12	112.00
37	7	48	U	N3-C4-O4	5.35	123.14	119.40
39	12	200	ARG	NE-CZ-NH2	5.35	122.97	120.30
36	1	815	G	N3-C4-C5	-5.35	125.93	128.60
36	1	2301	U	C5-C6-N1	5.35	125.37	122.70
36	1	2517	U	N3-C2-O2	-5.35	118.46	122.20
36	1	2934	A	OP1-P-OP2	5.35	127.62	119.60
1	6	593	U	N3-C2-O2	-5.35	118.46	122.20
1	6	1665	U	C4-C5-C6	5.35	122.91	119.70
36	5	1134	G	N1-C2-N3	5.35	127.11	123.90
36	5	1159	A	C6-C5-N7	-5.35	128.56	132.30
36	5	2430	A	C4-C5-C6	5.35	119.67	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2838	A	C6-C5-N7	5.35	136.04	132.30
36	5	3310	A	C6-N1-C2	-5.35	115.39	118.60
36	1	65	A	N7-C8-N9	-5.34	111.13	113.80
36	1	1366	A	C4-C5-C6	5.34	119.67	117.00
36	1	2199	G	C6-C5-N7	-5.34	127.19	130.40
36	1	3030	G	N3-C4-C5	5.34	131.27	128.60
38	4	1	A	C4-C5-C6	-5.34	114.33	117.00
59	N3	17	LEU	CA-CB-CG	-5.34	103.01	115.30
1	6	115	G	C6-C5-N7	-5.34	127.19	130.40
1	6	124	A	N1-C6-N6	5.34	121.81	118.60
1	6	385	A	C6-C5-N7	5.34	136.04	132.30
1	6	553	G	N3-C4-C5	5.34	131.27	128.60
1	6	996	U	C2-N1-C1'	5.34	124.11	117.70
1	6	1021	C	N3-C4-C5	5.34	124.04	121.90
1	6	1619	C	C5-C6-N1	5.34	123.67	121.00
36	5	127	G	N1-C2-N2	5.34	121.01	116.20
36	5	845	G	C4-C5-N7	-5.34	108.66	110.80
36	5	1307	G	N1-C2-N3	5.34	127.11	123.90
36	5	1348	U	N3-C4-O4	5.34	123.14	119.40
36	5	1417	G	N1-C6-O6	-5.34	116.69	119.90
36	5	1861	G	C4-N9-C1'	5.34	133.45	126.50
36	5	2187	G	C4-C5-N7	-5.34	108.66	110.80
36	5	2188	A	N1-C2-N3	5.34	131.97	129.30
36	5	2796	G	N1-C2-N3	-5.34	120.69	123.90
36	5	2966	G	C4-C5-C6	5.34	122.01	118.80
36	5	3000	A	OP1-P-O3'	-5.34	93.44	105.20
36	5	3143	C	C6-N1-C2	-5.34	118.16	120.30
36	1	582	G	C5-C6-O6	5.34	131.81	128.60
36	1	596	C	N1-C2-O2	5.34	122.11	118.90
36	1	2244	A	C8-N9-C4	-5.34	103.66	105.80
1	6	308	C	C5-C4-N4	5.34	123.94	120.20
36	5	799	G	O5'-P-OP1	-5.34	100.89	105.70
36	5	1723	A	OP2-P-O3'	5.34	116.95	105.20
36	5	1886	A	N1-C2-N3	5.34	131.97	129.30
36	5	3377	G	O5'-P-OP2	-5.34	100.89	105.70
38	8	2	A	OP1-P-OP2	-5.34	111.59	119.60
1	2	975	C	C6-N1-C2	-5.34	118.16	120.30
1	2	1240	U	C5-C6-N1	-5.34	120.03	122.70
1	2	1389	C	C2-N1-C1'	5.34	124.68	118.80
36	1	48	A	O4'-C1'-N9	5.34	112.47	108.20
36	1	254	A	N1-C6-N6	-5.34	115.39	118.60
36	1	419	G	C5-C6-N1	5.34	114.17	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	420	G	C8-N9-C1'	-5.34	120.06	127.00
36	1	1102	A	N1-C2-N3	5.34	131.97	129.30
36	1	1581	C	C2-N3-C4	5.34	122.57	119.90
36	1	2100	A	N9-C1'-C2'	-5.34	106.12	112.00
38	4	56	G	C6-N1-C2	-5.34	121.89	125.10
1	6	1683	C	N1-C2-O2	5.34	122.11	118.90
36	5	183	G	C5-N7-C8	5.34	106.97	104.30
36	5	639	G	C5-C6-N1	-5.34	108.83	111.50
36	5	644	G	C4-N9-C1'	5.34	133.44	126.50
36	5	1064	A	O4'-C1'-N9	-5.34	103.93	108.20
36	5	1517	G	N1-C6-O6	5.34	123.10	119.90
36	5	2434	U	OP1-P-O3'	5.34	116.95	105.20
36	5	3028	G	N3-C4-N9	5.34	129.21	126.00
36	5	3047	U	C4-C5-C6	5.34	122.91	119.70
38	8	110	C	N3-C4-C5	5.34	124.04	121.90
1	2	1270	G	C4-C5-C6	5.34	122.00	118.80
36	1	21	G	N9-C4-C5	5.34	107.54	105.40
36	1	715	A	N7-C8-N9	5.34	116.47	113.80
36	1	1284	C	C2-N1-C1'	5.34	124.67	118.80
36	1	1799	A	N1-C2-N3	5.34	131.97	129.30
36	1	2388	U	C5-C6-N1	-5.34	120.03	122.70
36	1	2603	G	C5-C6-N1	-5.34	108.83	111.50
36	1	2896	A	N1-C2-N3	5.34	131.97	129.30
36	1	3221	C	N3-C4-C5	-5.34	119.76	121.90
36	1	3232	G	C4-C5-C6	5.34	122.00	118.80
37	3	109	G	C8-N9-C1'	5.34	133.94	127.00
1	6	26	A	OP2-P-O3'	5.34	116.95	105.20
1	6	1074	G	N1-C6-O6	5.34	123.10	119.90
1	6	1672	G	C5-C6-N1	5.34	114.17	111.50
36	5	92	G	C4-C5-N7	5.34	112.94	110.80
36	5	218	G	C4-C5-N7	-5.34	108.66	110.80
36	5	725	G	N1-C2-N2	-5.34	111.39	116.20
36	5	1164	G	C6-N1-C2	-5.34	121.90	125.10
36	5	1202	A	N1-C6-N6	5.34	121.80	118.60
36	5	1317	A	C4-C5-N7	5.34	113.37	110.70
36	5	2254	U	OP1-P-O3'	5.34	116.95	105.20
36	5	2420	C	C2-N1-C1'	5.34	124.67	118.80
36	5	2917	G	C8-N9-C4	-5.34	104.26	106.40
36	5	3061	G	C4-N9-C1'	-5.34	119.56	126.50
1	2	1342	C	C5-C6-N1	5.34	123.67	121.00
1	6	1489	U	N3-C2-O2	-5.34	118.46	122.20
36	5	2420	C	C4-C5-C6	-5.34	114.73	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3237	U	N1-C2-O2	-5.34	119.06	122.80
36	5	3324	C	C2-N3-C4	-5.34	117.23	119.90
52	m6	51	LYS	CD-CE-NZ	5.34	123.98	111.70
1	2	17	C	C6-N1-C1'	5.34	127.20	120.80
1	2	1123	C	C2-N3-C4	5.34	122.57	119.90
1	2	1568	C	N3-C4-N4	-5.34	114.26	118.00
36	1	812	G	O5'-P-OP2	-5.34	100.90	105.70
36	1	933	A	C6-C5-N7	-5.34	128.56	132.30
36	1	1152	G	N3-C2-N2	5.34	123.64	119.90
36	1	1377	G	N1-C2-N3	5.34	127.10	123.90
36	1	3034	C	OP1-P-O3'	5.34	116.94	105.20
36	1	3075	G	C6-C5-N7	-5.34	127.20	130.40
38	4	53	A	N7-C8-N9	-5.34	111.13	113.80
41	L4	101	ALA	C-N-CD	-5.34	108.86	120.60
1	6	57	G	N1-C2-N3	5.34	127.10	123.90
1	6	420	A	C5-C6-N6	-5.34	119.43	123.70
1	6	1157	A	N9-C4-C5	5.34	107.93	105.80
1	6	1426	C	N1-C2-N3	-5.34	115.46	119.20
36	5	35	A	C6-N1-C2	-5.34	115.40	118.60
36	5	529	A	OP1-P-OP2	-5.34	111.60	119.60
36	5	1054	A	N9-C4-C5	-5.34	103.67	105.80
36	5	2174	G	C8-N9-C4	5.34	108.53	106.40
36	5	2824	G	N3-C4-N9	5.34	129.20	126.00
38	8	93	U	N3-C4-O4	-5.34	115.67	119.40
1	2	980	G	C8-N9-C4	5.33	108.53	106.40
1	2	1537	C	N1-C2-N3	-5.33	115.47	119.20
36	1	73	C	C6-N1-C2	-5.33	118.17	120.30
36	1	3321	C	N3-C4-C5	-5.33	119.77	121.90
1	6	17	C	N3-C4-N4	5.33	121.73	118.00
36	5	860	G	C5-N7-C8	-5.33	101.63	104.30
36	5	987	U	C4-C5-C6	5.33	122.90	119.70
36	5	1363	A	C5-N7-C8	5.33	106.57	103.90
36	5	2891	U	N1-C2-O2	5.33	126.53	122.80
1	2	332	U	C2-N3-C4	-5.33	123.80	127.00
1	2	1436	A	N1-C6-N6	5.33	121.80	118.60
1	2	1558	U	C5-C4-O4	-5.33	122.70	125.90
36	1	30	G	C4-C5-N7	5.33	112.93	110.80
36	1	411	U	N1-C2-O2	-5.33	119.07	122.80
36	1	428	A	C2-N3-C4	5.33	113.27	110.60
36	1	925	A	N1-C6-N6	5.33	121.80	118.60
36	1	1544	G	C5-C6-O6	-5.33	125.40	128.60
36	1	1952	G	OP2-P-O3'	5.33	116.94	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2722	U	OP1-P-OP2	-5.33	111.60	119.60
36	1	3088	G	C4-C5-N7	-5.33	108.67	110.80
36	1	3312	U	N1-C2-O2	-5.33	119.07	122.80
36	1	3316	A	OP2-P-O3'	5.33	116.94	105.20
54	M8	111	ARG	NE-CZ-NH1	-5.33	117.63	120.30
1	6	172	C	O5'-P-OP1	-5.33	100.90	105.70
1	6	1070	C	C5-C6-N1	-5.33	118.33	121.00
1	6	1598	U	C6-N1-C1'	-5.33	113.73	121.20
36	5	274	G	C6-C5-N7	5.33	133.60	130.40
36	5	281	G	N1-C2-N3	5.33	127.10	123.90
36	5	1891	A	N1-C6-N6	5.33	121.80	118.60
36	5	2118	C	C2-N1-C1'	5.33	124.67	118.80
36	5	2966	G	O5'-P-OP1	5.33	117.10	110.70
36	5	3120	C	C2-N1-C1'	5.33	124.67	118.80
1	2	763	G	C5-C6-O6	-5.33	125.40	128.60
1	2	1102	G	C5-C6-O6	-5.33	125.40	128.60
1	2	1109	G	C6-C5-N7	-5.33	127.20	130.40
1	2	1148	C	N1-C2-N3	5.33	122.93	119.20
36	1	882	A	C5-C6-N6	5.33	127.97	123.70
36	1	1065	A	O5'-P-OP1	-5.33	100.90	105.70
36	1	1168	U	OP1-P-OP2	-5.33	111.60	119.60
36	1	2284	C	N3-C4-C5	-5.33	119.77	121.90
36	1	2889	C	O5'-P-OP2	5.33	117.10	110.70
36	1	2953	U	N3-C2-O2	-5.33	118.47	122.20
36	1	3140	G	N9-C4-C5	-5.33	103.27	105.40
1	6	825	U	C5-C4-O4	-5.33	122.70	125.90
1	6	934	C	N3-C4-N4	-5.33	114.27	118.00
36	5	281	G	C6-N1-C2	-5.33	121.90	125.10
36	5	1337	A	N3-C4-C5	5.33	130.53	126.80
36	5	1420	C	OP2-P-O3'	5.33	116.93	105.20
36	5	3278	C	N3-C2-O2	5.33	125.63	121.90
1	2	422	G	O4'-C1'-N9	-5.33	103.94	108.20
1	2	1108	G	C6-C5-N7	5.33	133.60	130.40
36	1	1488	G	C4-C5-N7	5.33	112.93	110.80
1	6	1142	A	C8-N9-C4	-5.33	103.67	105.80
36	5	416	A	C4-C5-C6	-5.33	114.33	117.00
36	5	851	C	N3-C2-O2	5.33	125.63	121.90
36	5	1062	A	O5'-P-OP1	5.33	117.10	110.70
36	5	1332	A	OP1-P-O3'	5.33	116.93	105.20
36	5	1333	C	N3-C4-C5	-5.33	119.77	121.90
36	5	1889	G	OP1-P-OP2	-5.33	111.61	119.60
36	5	3079	U	N3-C4-O4	-5.33	115.67	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	260	U	C5-C4-O4	-5.33	122.70	125.90
36	1	89	A	O5'-P-OP1	5.33	117.09	110.70
36	1	697	A	OP1-P-OP2	5.33	127.59	119.60
36	1	1320	C	C2-N3-C4	-5.33	117.24	119.90
36	1	1437	C	C2-N1-C1'	5.33	124.66	118.80
36	1	1643	A	C8-N9-C4	5.33	107.93	105.80
36	1	2828	G	N3-C4-C5	-5.33	125.94	128.60
36	1	3361	G	C4-C5-N7	-5.33	108.67	110.80
1	6	16	G	C6-C5-N7	-5.33	127.20	130.40
1	6	372	G	C5-C6-O6	5.33	131.80	128.60
1	6	1129	U	C6-N1-C1'	5.33	128.66	121.20
1	6	1264	G	C5-C6-O6	-5.33	125.40	128.60
1	6	1569	A	C4-N9-C1'	5.33	135.89	126.30
36	5	538	G	C6-C5-N7	-5.33	127.20	130.40
36	5	1124	U	C4-C5-C6	-5.33	116.50	119.70
36	5	1339	C	N3-C4-C5	5.33	124.03	121.90
36	5	1486	G	C8-N9-C1'	5.33	133.93	127.00
36	5	2149	A	C5-C6-N1	-5.33	115.04	117.70
36	5	2187	G	N7-C8-N9	5.33	115.76	113.10
1	2	548	G	N1-C6-O6	5.33	123.10	119.90
36	1	278	U	OP1-P-OP2	-5.33	111.61	119.60
36	1	1548	C	N3-C4-N4	5.33	121.73	118.00
36	1	2643	A	C4-C5-C6	-5.33	114.34	117.00
1	6	2	A	N9-C4-C5	5.33	107.93	105.80
1	6	1665	U	OP2-P-O3'	5.33	116.92	105.20
36	5	1207	G	C4-C5-N7	5.33	112.93	110.80
36	5	2663	G	C5-C6-N1	5.33	114.16	111.50
36	5	2918	G	N1-C2-N3	5.33	127.10	123.90
1	2	1606	C	O5'-P-OP2	-5.33	100.91	105.70
36	1	644	G	C5-N7-C8	5.33	106.96	104.30
36	1	876	A	C6-N1-C2	-5.33	115.41	118.60
36	1	975	C	N1-C2-O2	-5.33	115.70	118.90
36	1	1428	A	OP1-P-OP2	5.33	127.59	119.60
36	1	1517	G	C5-C6-N1	5.33	114.16	111.50
36	1	1544	G	C4-C5-N7	5.33	112.93	110.80
36	1	1585	C	N3-C2-O2	5.33	125.63	121.90
36	1	2305	G	OP2-P-O3'	5.33	116.92	105.20
36	1	2705	A	N9-C4-C5	5.33	107.93	105.80
36	1	3362	A	N1-C6-N6	5.33	121.80	118.60
38	4	10	A	N1-C6-N6	-5.33	115.41	118.60
38	4	34	U	C6-N1-C1'	5.33	128.66	121.20
1	6	48	G	OP2-P-O3'	5.33	116.92	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	403	G	OP1-P-O3'	5.33	116.92	105.20
1	6	1180	C	C5-C6-N1	5.33	123.66	121.00
1	6	1521	G	C5-C6-O6	-5.33	125.40	128.60
1	6	1543	A	C2-N3-C4	-5.33	107.94	110.60
1	6	1569	A	C6-C5-N7	-5.33	128.57	132.30
36	5	374	A	C8-N9-C4	-5.33	103.67	105.80
36	5	746	A	N1-C2-N3	5.33	131.96	129.30
36	5	1168	U	N3-C4-C5	5.33	117.80	114.60
36	5	1277	C	C5-C6-N1	5.33	123.66	121.00
36	5	1323	G	C6-C5-N7	-5.33	127.20	130.40
36	5	2312	A	C5-C6-N1	5.33	120.36	117.70
38	8	51	G	N1-C2-N3	5.33	127.09	123.90
1	2	41	A	C8-N9-C4	-5.32	103.67	105.80
36	1	679	U	N3-C4-C5	5.32	117.79	114.60
36	1	946	U	N3-C4-O4	5.32	123.13	119.40
36	1	1506	A	C2-N3-C4	-5.32	107.94	110.60
36	1	2321	A	C6-N1-C2	5.32	121.79	118.60
36	1	2802	A	C6-N1-C2	-5.32	115.41	118.60
36	1	2817	A	C6-N1-C2	-5.32	115.41	118.60
36	1	3293	U	C6-N1-C1'	5.32	128.65	121.20
1	6	580	A	C2-N3-C4	5.32	113.26	110.60
1	6	1777	G	C4-C5-C6	5.32	121.99	118.80
36	5	349	A	C6-N1-C2	-5.32	115.41	118.60
36	5	1420	C	OP1-P-O3'	-5.32	93.49	105.20
36	5	1487	G	N7-C8-N9	5.32	115.76	113.10
36	5	2207	A	N9-C4-C5	-5.32	103.67	105.80
36	5	3242	G	N3-C4-C5	-5.32	125.94	128.60
38	8	8	C	N3-C4-C5	-5.32	119.77	121.90
38	8	115	C	C2-N3-C4	-5.32	117.24	119.90
38	8	116	G	C8-N9-C4	-5.32	104.27	106.40
36	1	2234	G	C4-C5-N7	-5.32	108.67	110.80
36	1	2341	A	N7-C8-N9	-5.32	111.14	113.80
36	1	3052	G	O5'-P-OP1	-5.32	100.91	105.70
37	3	97	A	N9-C4-C5	-5.32	103.67	105.80
1	6	1146	G	N1-C6-O6	-5.32	116.71	119.90
36	5	731	U	C2-N3-C4	-5.32	123.81	127.00
36	5	1319	G	N1-C2-N2	5.32	120.99	116.20
36	5	1761	C	N1-C2-O2	5.32	122.09	118.90
36	5	2938	G	C5-C6-N1	5.32	114.16	111.50
36	5	3143	C	C5-C4-N4	-5.32	116.47	120.20
38	8	77	A	C8-N9-C4	5.32	107.93	105.80
1	2	100	A	C5-C6-N1	5.32	120.36	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	576	G	N7-C8-N9	5.32	115.76	113.10
36	1	865	U	C2-N3-C4	-5.32	123.81	127.00
36	1	1043	C	C5-C6-N1	-5.32	118.34	121.00
36	1	1498	A	OP2-P-O3'	5.32	116.91	105.20
36	1	2778	G	C6-N1-C2	-5.32	121.91	125.10
36	1	2966	G	C5-C6-N1	-5.32	108.84	111.50
36	1	3360	C	C5-C6-N1	5.32	123.66	121.00
1	6	68	A	C4-C5-N7	5.32	113.36	110.70
1	6	777	C	N1-C2-O2	5.32	122.09	118.90
1	6	1273	G	OP1-P-OP2	-5.32	111.62	119.60
1	6	1665	U	C5-C6-N1	-5.32	120.04	122.70
36	5	396	A	N3-C4-C5	5.32	130.52	126.80
36	5	929	A	C5-C6-N1	5.32	120.36	117.70
36	5	1510	G	C4-C5-N7	5.32	112.93	110.80
36	5	2371	G	C4-N9-C1'	5.32	133.42	126.50
36	5	2556	C	O4'-C1'-N1	5.32	112.46	108.20
36	5	2622	C	C5-C4-N4	5.32	123.92	120.20
36	5	2723	U	C2-N1-C1'	5.32	124.08	117.70
36	5	2754	G	C8-N9-C4	5.32	108.53	106.40
36	5	2803	A	C6-N1-C2	5.32	121.79	118.60
36	5	2819	A	C2-N3-C4	5.32	113.26	110.60
36	5	3362	A	C4-C5-N7	5.32	113.36	110.70
1	2	1264	G	N9-C4-C5	5.32	107.53	105.40
36	1	53	G	C4-C5-C6	5.32	121.99	118.80
36	1	1947	G	C6-C5-N7	-5.32	127.21	130.40
36	1	3265	C	C5-C6-N1	-5.32	118.34	121.00
36	1	3322	A	C2-N3-C4	-5.32	107.94	110.60
37	3	30	G	C6-N1-C2	-5.32	121.91	125.10
38	4	110	C	C5-C4-N4	5.32	123.92	120.20
1	6	757	A	N3-C4-C5	5.32	130.52	126.80
36	5	965	A	N3-C4-C5	-5.32	123.08	126.80
36	5	1081	U	C5-C6-N1	5.32	125.36	122.70
1	2	347	G	N1-C2-N3	5.32	127.09	123.90
1	2	1307	U	C5-C4-O4	5.32	129.09	125.90
36	1	232	G	N3-C4-C5	-5.32	125.94	128.60
36	1	584	G	OP1-P-O3'	5.32	116.90	105.20
36	1	628	A	C8-N9-C4	-5.32	103.67	105.80
36	1	1473	G	C8-N9-C4	5.32	108.53	106.40
36	1	1476	G	C8-N9-C1'	-5.32	120.09	127.00
36	1	2420	C	O5'-P-OP2	5.32	117.08	110.70
36	1	3040	A	C4-C5-C6	5.32	119.66	117.00
38	4	34	U	C4-C5-C6	5.32	122.89	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1020	A	N9-C4-C5	5.32	107.93	105.80
1	6	1083	G	C4-N9-C1'	5.32	133.41	126.50
1	6	1119	G	C6-N1-C2	-5.32	121.91	125.10
1	6	1336	A	C8-N9-C4	5.32	107.93	105.80
36	5	504	A	N9-C4-C5	-5.32	103.67	105.80
36	5	1094	U	C5-C6-N1	5.32	125.36	122.70
36	5	1348	U	O5'-P-OP2	5.32	117.08	110.70
36	5	1589	A	C5-N7-C8	-5.32	101.24	103.90
36	5	1832	C	C5-C4-N4	-5.32	116.48	120.20
36	5	2311	G	C2-N3-C4	-5.32	109.24	111.90
36	5	3124	G	C6-C5-N7	-5.32	127.21	130.40
37	7	21	G	OP1-P-O3'	5.32	116.90	105.20
37	7	46	A	C5-C6-N6	-5.32	119.45	123.70
37	7	65	G	C5-N7-C8	-5.32	101.64	104.30
38	8	108	C	O5'-P-OP2	-5.32	100.92	105.70
1	2	936	G	C8-N9-C4	-5.32	104.27	106.40
1	2	1573	A	P-O3'-C3'	5.32	126.08	119.70
1	2	1599	C	C6-N1-C2	-5.32	118.17	120.30
1	2	1764	C	N1-C2-O2	5.32	122.09	118.90
36	1	747	A	C4-C5-C6	-5.32	114.34	117.00
36	1	792	G	C2-N3-C4	-5.32	109.24	111.90
36	1	1794	G	C8-N9-C4	5.32	108.53	106.40
36	1	1906	G	N9-C4-C5	-5.32	103.27	105.40
36	1	2231	C	C5-C6-N1	-5.32	118.34	121.00
36	1	2373	A	N7-C8-N9	5.32	116.46	113.80
36	1	2389	C	C2-N3-C4	-5.32	117.24	119.90
36	1	2554	A	O4'-C1'-N9	-5.32	103.95	108.20
36	1	2843	U	C6-N1-C1'	-5.32	113.76	121.20
36	1	2937	G	N3-C4-C5	5.32	131.26	128.60
37	3	10	C	C6-N1-C2	5.32	122.43	120.30
37	3	26	C	C5-C6-N1	-5.32	118.34	121.00
38	4	139	U	N1-C2-O2	5.32	126.52	122.80
1	6	454	U	N3-C2-O2	-5.32	118.48	122.20
1	6	1662	G	O5'-P-OP2	-5.32	100.92	105.70
36	5	40	A	N3-C4-C5	5.32	130.52	126.80
36	5	74	G	O5'-P-OP1	-5.32	100.92	105.70
36	5	525	C	OP2-P-O3'	5.32	116.89	105.20
36	5	601	U	N3-C4-O4	5.32	123.12	119.40
36	5	677	A	C4-C5-C6	-5.32	114.34	117.00
36	5	813	G	O5'-P-OP1	5.32	117.08	110.70
36	5	1248	C	C6-N1-C2	-5.32	118.17	120.30
36	5	2236	G	N3-C4-C5	-5.32	125.94	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2317	A	N9-C4-C5	5.32	107.93	105.80
36	5	2670	G	OP1-P-O3'	-5.32	93.50	105.20
36	5	3080	G	C5-C6-O6	-5.32	125.41	128.60
36	5	3227	A	OP2-P-O3'	5.32	116.90	105.20
37	7	24	A	N9-C4-C5	5.32	107.93	105.80
1	2	318	U	N1-C2-O2	-5.31	119.08	122.80
36	1	408	A	C4-C5-N7	-5.31	108.04	110.70
36	1	1178	G	N9-C4-C5	-5.31	103.27	105.40
36	1	2233	A	N9-C4-C5	5.31	107.93	105.80
38	4	36	G	C4-C5-N7	5.31	112.93	110.80
36	5	399	A	C2-N3-C4	5.31	113.26	110.60
36	5	788	C	N1-C2-N3	5.31	122.92	119.20
36	5	2674	A	O5'-P-OP1	-5.31	100.92	105.70
36	5	2904	U	OP2-P-O3'	5.31	116.89	105.20
1	2	615	A	N9-C4-C5	5.31	107.92	105.80
1	2	1086	A	N9-C4-C5	5.31	107.92	105.80
36	1	1736	G	N7-C8-N9	5.31	115.76	113.10
36	1	2370	G	C5-N7-C8	5.31	106.96	104.30
36	1	3180	A	C8-N9-C4	-5.31	103.67	105.80
36	1	3294	A	N1-C6-N6	-5.31	115.41	118.60
1	6	187	G	OP1-P-O3'	5.31	116.89	105.20
1	6	1001	A	C5-C6-N6	-5.31	119.45	123.70
1	6	1367	G	OP2-P-O3'	5.31	116.89	105.20
36	5	40	A	N3-C4-N9	-5.31	123.15	127.40
36	5	188	U	N1-C2-N3	5.31	118.09	114.90
36	5	947	G	C5-C6-O6	-5.31	125.41	128.60
36	5	1422	G	C2-N3-C4	-5.31	109.24	111.90
36	5	2275	A	O4'-C1'-N9	5.31	112.45	108.20
36	5	2647	A	N1-C2-N3	5.31	131.96	129.30
36	5	2857	C	N1-C2-O2	5.31	122.09	118.90
36	5	3164	C	N3-C4-C5	5.31	124.03	121.90
36	5	3313	U	N3-C4-C5	-5.31	111.41	114.60
37	7	40	C	C5-C4-N4	-5.31	116.48	120.20
1	2	357	G	O5'-P-OP2	5.31	117.07	110.70
36	1	650	C	N1-C2-O2	-5.31	115.71	118.90
36	1	2761	G	N1-C6-O6	-5.31	116.71	119.90
36	1	2963	C	O5'-P-OP2	-5.31	100.92	105.70
36	1	3219	G	N9-C4-C5	-5.31	103.28	105.40
1	6	79	C	C6-N1-C2	5.31	122.42	120.30
36	5	30	G	N7-C8-N9	5.31	115.76	113.10
36	5	230	U	C5-C4-O4	5.31	129.09	125.90
36	5	1637	A	C8-N9-C4	-5.31	103.68	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	65	G	N3-C4-C5	5.31	131.26	128.60
1	2	806	A	C5-C6-N1	5.31	120.36	117.70
1	2	913	G	P-O3'-C3'	5.31	126.07	119.70
1	2	1146	G	C4-C5-C6	5.31	121.99	118.80
36	1	378	A	C8-N9-C4	5.31	107.92	105.80
36	1	1207	G	O5'-P-OP2	5.31	117.07	110.70
36	1	1386	A	N1-C2-N3	5.31	131.96	129.30
36	1	1419	A	O4'-C1'-N9	5.31	112.45	108.20
36	1	1529	A	N9-C4-C5	5.31	107.92	105.80
36	1	1594	A	C2-N3-C4	5.31	113.25	110.60
1	6	1082	C	C4-C5-C6	5.31	120.06	117.40
1	6	1097	U	N1-C2-N3	5.31	118.08	114.90
1	6	1357	A	C8-N9-C4	5.31	107.92	105.80
1	6	1614	A	N7-C8-N9	5.31	116.45	113.80
36	5	97	U	N1-C2-O2	-5.31	119.08	122.80
36	5	689	U	OP1-P-O3'	-5.31	93.52	105.20
36	5	1085	A	C5-C6-N1	-5.31	115.05	117.70
36	5	2411	U	N3-C4-O4	5.31	123.12	119.40
36	5	2745	G	C4-C5-N7	5.31	112.92	110.80
1	2	514	G	C4-N9-C1'	-5.31	119.60	126.50
1	2	1200	G	C8-N9-C4	-5.31	104.28	106.40
1	2	1418	G	C5-C6-O6	-5.31	125.42	128.60
1	2	1764	C	O5'-P-OP1	-5.31	100.92	105.70
36	1	287	G	OP1-P-O3'	5.31	116.88	105.20
36	1	325	A	O5'-P-OP1	-5.31	100.92	105.70
36	1	1118	C	C6-N1-C2	-5.31	118.18	120.30
36	1	1314	C	N3-C4-C5	-5.31	119.78	121.90
36	1	2202	C	C5-C6-N1	5.31	123.65	121.00
36	1	2266	U	C4-C5-C6	-5.31	116.52	119.70
36	1	2648	G	N3-C4-C5	-5.31	125.95	128.60
36	1	2654	C	N3-C4-N4	5.31	121.72	118.00
1	6	90	C	N1-C2-N3	5.31	122.92	119.20
1	6	340	U	N3-C4-O4	5.31	123.11	119.40
1	6	440	U	OP1-P-OP2	5.31	127.56	119.60
1	6	1122	G	N1-C6-O6	5.31	123.08	119.90
1	6	1524	A	C6-N1-C2	-5.31	115.42	118.60
1	6	1631	A	OP1-P-O3'	5.31	116.88	105.20
1	6	1650	U	N1-C2-N3	5.31	118.08	114.90
36	5	217	U	C5-C6-N1	-5.31	120.05	122.70
36	5	326	U	OP2-P-O3'	5.31	116.88	105.20
36	5	957	C	C5-C6-N1	5.31	123.65	121.00
36	5	983	A	C8-N9-C4	5.31	107.92	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2344	U	C4-C5-C6	5.31	122.88	119.70
36	5	3044	G	C4-C5-N7	5.31	112.92	110.80
36	5	3326	G	N3-C2-N2	5.31	123.62	119.90
36	5	3386	G	N9-C4-C5	5.31	107.52	105.40
1	2	654	C	C6-N1-C2	-5.31	118.18	120.30
36	1	1465	A	C8-N9-C4	5.31	107.92	105.80
36	1	3141	A	C5-N7-C8	-5.31	101.25	103.90
1	6	151	G	C4-C5-N7	-5.31	108.68	110.80
1	6	1030	A	C8-N9-C4	5.31	107.92	105.80
36	5	1867	A	N3-C4-N9	-5.31	123.16	127.40
36	5	2933	A	N9-C4-C5	5.31	107.92	105.80
1	2	22	A	C2-N3-C4	5.30	113.25	110.60
36	1	379	C	N1-C2-O2	-5.30	115.72	118.90
36	1	2333	C	C4-C5-C6	5.30	120.05	117.40
36	1	2776	C	C6-N1-C1'	-5.30	114.43	120.80
1	6	765	G	O4'-C1'-N9	-5.30	103.96	108.20
1	6	784	C	O5'-P-OP1	-5.30	100.92	105.70
1	6	1136	U	N3-C4-C5	5.30	117.78	114.60
1	6	1337	A	C8-N9-C1'	5.30	137.25	127.70
1	6	1484	G	N9-C4-C5	5.30	107.52	105.40
36	5	383	G	C5-C6-O6	5.30	131.78	128.60
36	5	2677	G	C6-C5-N7	-5.30	127.22	130.40
37	7	87	G	O5'-P-OP1	-5.30	100.93	105.70
36	1	225	C	N1-C2-O2	5.30	122.08	118.90
36	1	1344	G	O5'-P-OP1	5.30	117.06	110.70
36	1	1409	G	C4-C5-N7	5.30	112.92	110.80
36	1	1554	U	C2-N3-C4	5.30	130.18	127.00
36	1	1670	C	C2-N3-C4	-5.30	117.25	119.90
36	1	2161	G	N1-C6-O6	5.30	123.08	119.90
36	1	3263	G	N9-C4-C5	-5.30	103.28	105.40
36	5	1163	A	C6-N1-C2	-5.30	115.42	118.60
78	q2	93	LEU	CB-CG-CD2	-5.30	101.98	111.00
1	2	469	C	O5'-P-OP2	-5.30	100.93	105.70
1	2	966	A	N1-C2-N3	5.30	131.95	129.30
36	1	132	C	C6-N1-C2	-5.30	118.18	120.30
36	1	643	U	C5-C6-N1	5.30	125.35	122.70
36	1	933	A	C8-N9-C1'	-5.30	118.16	127.70
36	1	1709	C	C6-N1-C2	-5.30	118.18	120.30
36	1	2398	A	N7-C8-N9	-5.30	111.15	113.80
68	O2	47	ARG	NE-CZ-NH1	5.30	122.95	120.30
73	O7	65	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	6	509	G	O5'-P-OP1	-5.30	100.93	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	989	U	N1-C2-O2	5.30	126.51	122.80
1	6	1374	C	N3-C4-C5	-5.30	119.78	121.90
36	5	41	G	C8-N9-C1'	5.30	133.89	127.00
36	5	535	G	O4'-C1'-N9	-5.30	103.96	108.20
36	5	560	G	N3-C2-N2	-5.30	116.19	119.90
36	5	1171	G	C8-N9-C4	-5.30	104.28	106.40
36	5	1183	C	C2-N1-C1'	5.30	124.63	118.80
36	5	2333	C	C5-C6-N1	-5.30	118.35	121.00
36	5	2615	G	N9-C4-C5	-5.30	103.28	105.40
36	5	2649	A	C4-C5-N7	5.30	113.35	110.70
36	5	2727	A	C6-N1-C2	-5.30	115.42	118.60
36	5	3180	A	N3-C4-C5	5.30	130.51	126.80
36	5	3382	U	N3-C2-O2	-5.30	118.49	122.20
1	2	630	A	O4'-C1'-N9	-5.30	103.96	108.20
1	2	1250	U	P-O3'-C3'	5.30	126.06	119.70
36	1	145	G	N7-C8-N9	5.30	115.75	113.10
36	1	402	A	C4-C5-N7	5.30	113.35	110.70
36	1	970	A	C5-C6-N1	5.30	120.35	117.70
36	1	1145	G	N9-C4-C5	5.30	107.52	105.40
36	1	1463	U	C5-C6-N1	-5.30	120.05	122.70
36	1	2147	A	C6-N1-C2	-5.30	115.42	118.60
36	1	2659	G	C4-N9-C1'	5.30	133.39	126.50
36	1	2896	A	C6-C5-N7	-5.30	128.59	132.30
38	4	94	C	C2-N1-C1'	-5.30	112.97	118.80
38	4	125	U	C2-N1-C1'	5.30	124.06	117.70
6	s4	167	GLY	N-CA-C	-5.30	99.85	113.10
36	5	673	U	C4-C5-C6	5.30	122.88	119.70
36	5	1411	C	N1-C2-O2	5.30	122.08	118.90
36	5	1603	A	O5'-P-OP1	5.30	117.06	110.70
36	5	2197	C	C6-N1-C1'	-5.30	114.44	120.80
36	5	3026	G	N1-C2-N2	-5.30	111.43	116.20
36	5	3189	G	N1-C2-N2	-5.30	111.43	116.20
37	7	32	U	C5-C4-O4	-5.30	122.72	125.90
37	7	42	A	C4-N9-C1'	5.30	135.84	126.30
1	2	551	G	C2-N3-C4	-5.30	109.25	111.90
36	1	1201	C	N1-C2-N3	-5.30	115.49	119.20
36	5	1295	G	N3-C2-N2	5.30	123.61	119.90
36	5	2776	C	C6-N1-C1'	-5.30	114.44	120.80
36	5	3127	A	C6-N1-C2	-5.30	115.42	118.60
36	5	3130	A	C5-C6-N6	-5.30	119.46	123.70
36	5	3137	C	C2-N1-C1'	5.30	124.63	118.80
1	2	350	U	N1-C2-O2	-5.30	119.09	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	630	A	C2-N3-C4	-5.30	107.95	110.60
36	1	904	A	N9-C4-C5	5.30	107.92	105.80
36	1	967	A	C6-N1-C2	-5.30	115.42	118.60
36	1	1463	U	N3-C2-O2	-5.30	118.49	122.20
36	1	1534	A	C2-N3-C4	-5.30	107.95	110.60
36	1	2209	U	C2-N3-C4	5.30	130.18	127.00
36	1	2316	G	C4-C5-C6	5.30	121.98	118.80
36	1	2931	C	N1-C1'-C2'	-5.30	106.17	112.00
36	1	2932	U	OP1-P-OP2	5.30	127.55	119.60
36	1	3186	A	C5-C6-N1	5.30	120.35	117.70
1	6	1209	C	N1-C2-O2	-5.30	115.72	118.90
36	5	422	A	C5-C6-N6	5.30	127.94	123.70
36	5	513	G	C6-N1-C2	-5.30	121.92	125.10
36	5	854	G	N1-C6-O6	5.30	123.08	119.90
36	5	1101	G	C4-N9-C1'	5.30	133.39	126.50
36	5	1199	C	C2-N1-C1'	5.30	124.63	118.80
36	5	1199	C	C6-N1-C1'	-5.30	114.44	120.80
36	5	1616	U	N3-C4-C5	-5.30	111.42	114.60
36	5	1838	G	C4-C5-C6	5.30	121.98	118.80
36	5	2530	G	N1-C6-O6	5.30	123.08	119.90
36	5	2557	A	N1-C2-N3	5.30	131.95	129.30
36	5	2573	G	C4-C5-N7	5.30	112.92	110.80
36	5	3044	G	N1-C2-N3	5.30	127.08	123.90
1	2	969	C	OP2-P-O3'	5.29	116.85	105.20
1	2	1316	G	N1-C6-O6	-5.29	116.72	119.90
36	1	422	A	O4'-C1'-N9	-5.29	103.96	108.20
36	1	1364	C	C2-N3-C4	-5.29	117.25	119.90
36	1	1791	C	O4'-C1'-N1	5.29	112.44	108.20
36	1	2899	C	C4-C5-C6	5.29	120.05	117.40
1	6	417	A	P-O3'-C3'	5.29	126.05	119.70
36	5	1055	A	N7-C8-N9	-5.29	111.15	113.80
36	5	2948	C	C5-C6-N1	5.29	123.65	121.00
1	2	1775	U	OP2-P-O3'	5.29	116.85	105.20
36	1	856	G	N1-C2-N3	5.29	127.08	123.90
36	1	1461	A	C2-N3-C4	-5.29	107.95	110.60
36	1	1709	C	C4-C5-C6	5.29	120.05	117.40
36	1	1909	A	OP1-P-OP2	-5.29	111.66	119.60
36	1	2353	G	C4-N9-C1'	5.29	133.38	126.50
1	6	21	U	C2-N1-C1'	5.29	124.05	117.70
1	6	594	A	C6-N1-C2	-5.29	115.42	118.60
1	6	980	G	C4-C5-N7	5.29	112.92	110.80
36	5	800	G	C5-C6-N1	5.29	114.15	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1507	G	OP2-P-O3'	5.29	116.85	105.20
36	5	1605	A	C2-N3-C4	-5.29	107.95	110.60
36	5	1911	A	C4-C5-C6	5.29	119.65	117.00
36	5	2583	C	C5-C6-N1	5.29	123.65	121.00
1	2	1206	U	C6-N1-C2	-5.29	117.83	121.00
36	1	731	U	N1-C2-N3	5.29	118.08	114.90
36	1	1583	A	C5-C6-N6	5.29	127.93	123.70
36	1	2157	G	N3-C4-N9	5.29	129.18	126.00
36	1	2172	A	N9-C4-C5	-5.29	103.68	105.80
36	1	2404	A	N3-C4-N9	5.29	131.63	127.40
36	1	2610	G	C8-N9-C4	-5.29	104.28	106.40
36	1	2761	G	C4-C5-N7	-5.29	108.68	110.80
36	1	3116	G	C4-N9-C1'	5.29	133.38	126.50
36	1	3157	U	N3-C4-C5	5.29	117.77	114.60
36	1	3174	A	N9-C4-C5	-5.29	103.68	105.80
38	4	118	C	N3-C4-N4	5.29	121.70	118.00
1	6	374	U	OP1-P-OP2	5.29	127.54	119.60
1	6	789	A	N3-C4-C5	-5.29	123.09	126.80
1	6	1174	C	C2-N1-C1'	5.29	124.62	118.80
36	5	326	U	C2-N1-C1'	5.29	124.05	117.70
36	5	673	U	C6-N1-C1'	5.29	128.61	121.20
36	5	909	G	C4-N9-C1'	5.29	133.38	126.50
36	5	1155	C	O5'-P-OP1	-5.29	100.94	105.70
36	5	1312	C	N3-C4-N4	5.29	121.70	118.00
36	5	3060	C	O5'-P-OP1	-5.29	100.94	105.70
36	1	2890	A	N3-C4-C5	-5.29	123.10	126.80
36	1	3272	C	N3-C2-O2	5.29	125.60	121.90
1	6	566	C	C2-N3-C4	-5.29	117.25	119.90
1	6	1746	A	O5'-P-OP2	5.29	117.05	110.70
36	5	831	G	C5-C6-N1	-5.29	108.86	111.50
36	5	1444	G	C8-N9-C4	-5.29	104.28	106.40
36	5	1594	A	C6-N1-C2	-5.29	115.43	118.60
36	5	2833	A	O5'-P-OP1	5.29	117.05	110.70
1	2	1044	U	C6-N1-C2	-5.29	117.83	121.00
36	1	104	G	N3-C4-C5	5.29	131.25	128.60
36	1	623	U	C5-C4-O4	5.29	129.07	125.90
36	1	1202	A	C5-C6-N6	-5.29	119.47	123.70
59	N3	87	ARG	NE-CZ-NH2	-5.29	117.66	120.30
1	6	30	G	N1-C6-O6	5.29	123.07	119.90
1	6	430	G	N1-C2-N3	5.29	127.07	123.90
1	6	1534	G	N1-C2-N3	-5.29	120.73	123.90
36	5	591	G	C8-N9-C4	5.29	108.52	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	591	G	N1-C2-N3	5.29	127.07	123.90
36	5	722	G	C4-N9-C1'	-5.29	119.62	126.50
36	5	1414	G	C5-N7-C8	-5.29	101.66	104.30
36	5	1660	C	O5'-P-OP1	-5.29	100.94	105.70
36	5	2418	G	OP2-P-O3'	-5.29	93.56	105.20
36	5	2765	C	C5-C6-N1	5.29	123.64	121.00
36	5	2870	C	C2-N1-C1'	-5.29	112.98	118.80
77	q1	11	ARG	NE-CZ-NH2	-5.29	117.66	120.30
36	1	279	U	OP2-P-O3'	-5.29	93.57	105.20
36	1	1393	A	C4-C5-N7	-5.29	108.06	110.70
36	1	1769	G	N7-C8-N9	5.29	115.74	113.10
36	1	1836	C	N3-C4-C5	-5.29	119.78	121.90
1	6	968	U	C2-N3-C4	-5.29	123.83	127.00
36	5	433	A	C8-N9-C4	-5.29	103.69	105.80
36	5	2361	A	OP2-P-O3'	5.29	116.83	105.20
1	2	1756	A	C5-C6-N6	-5.29	119.47	123.70
36	1	176	G	C8-N9-C4	-5.29	104.29	106.40
36	1	2309	A	C4-C5-C6	5.29	119.64	117.00
36	1	3093	C	OP1-P-O3'	5.29	116.83	105.20
36	1	3193	C	N3-C4-C5	-5.29	119.79	121.90
1	6	393	C	C6-N1-C2	5.29	122.41	120.30
1	6	1079	U	C2-N1-C1'	-5.29	111.36	117.70
1	6	1169	G	C4-N9-C1'	5.29	133.37	126.50
36	5	792	G	C6-C5-N7	5.29	133.57	130.40
36	5	896	A	N1-C2-N3	-5.29	126.66	129.30
36	5	1437	C	O5'-P-OP1	-5.29	100.94	105.70
36	5	2301	U	C5-C4-O4	5.29	129.07	125.90
36	5	2801	A	C6-C5-N7	-5.29	128.60	132.30
36	5	2840	C	N3-C2-O2	-5.29	118.20	121.90
36	5	3362	A	C4-N9-C1'	5.29	135.81	126.30
1	2	430	G	C6-C5-N7	-5.28	127.23	130.40
1	2	1311	U	N3-C4-C5	5.28	117.77	114.60
1	2	1499	G	N3-C4-N9	5.28	129.17	126.00
36	1	399	A	O5'-P-OP2	-5.28	100.94	105.70
36	1	418	A	C5-C6-N1	5.28	120.34	117.70
36	1	650	C	O5'-P-OP1	-5.28	100.95	105.70
36	1	670	C	C5-C6-N1	-5.28	118.36	121.00
36	1	1064	A	C5-C6-N6	5.28	127.93	123.70
36	1	1905	G	C5-C6-O6	5.28	131.77	128.60
36	1	2278	C	N1-C2-N3	-5.28	115.50	119.20
36	1	2434	U	C2-N1-C1'	5.28	124.04	117.70
36	1	2610	G	C2-N3-C4	-5.28	109.26	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2662	G	C6-C5-N7	-5.28	127.23	130.40
1	6	756	A	C5-N7-C8	-5.28	101.26	103.90
1	6	959	U	OP2-P-O3'	5.28	116.83	105.20
1	6	1129	U	C6-N1-C2	-5.28	117.83	121.00
36	5	633	C	N3-C2-O2	5.28	125.60	121.90
36	5	641	C	N1-C2-O2	-5.28	115.73	118.90
36	5	888	A	C4-C5-C6	5.28	119.64	117.00
36	5	1882	G	N7-C8-N9	5.28	115.74	113.10
36	5	1912	U	N1-C2-N3	-5.28	111.73	114.90
36	5	1919	G	C2-N3-C4	-5.28	109.26	111.90
36	5	2320	A	C4-C5-C6	5.28	119.64	117.00
37	7	65	G	OP1-P-O3'	-5.28	93.58	105.20
50	m4	135	LEU	CA-CB-CG	5.28	127.45	115.30
1	2	247	A	C4-C5-C6	5.28	119.64	117.00
1	6	40	A	N1-C6-N6	5.28	121.77	118.60
1	6	1142	A	N1-C2-N3	5.28	131.94	129.30
36	5	342	A	N3-C4-C5	-5.28	123.10	126.80
36	5	972	A	N1-C2-N3	5.28	131.94	129.30
36	5	2209	U	C5-C6-N1	-5.28	120.06	122.70
36	5	2414	G	C4-C5-C6	5.28	121.97	118.80
36	5	2696	A	OP2-P-O3'	5.28	116.82	105.20
36	5	3018	C	N3-C4-C5	-5.28	119.79	121.90
37	7	48	U	C6-N1-C1'	-5.28	113.81	121.20
36	1	193	C	C5-C6-N1	5.28	123.64	121.00
36	1	569	A	C2-N3-C4	5.28	113.24	110.60
36	1	1102	A	C8-N9-C4	5.28	107.91	105.80
36	1	1175	C	N3-C2-O2	5.28	125.60	121.90
36	1	1886	A	N1-C6-N6	-5.28	115.43	118.60
36	1	2182	A	C6-N1-C2	-5.28	115.43	118.60
36	1	2210	G	C5-C6-O6	5.28	131.77	128.60
36	1	2276	G	C6-C5-N7	5.28	133.57	130.40
36	1	2803	A	C6-C5-N7	5.28	136.00	132.30
36	1	3328	G	N7-C8-N9	5.28	115.74	113.10
1	6	516	G	N7-C8-N9	5.28	115.74	113.10
1	6	752	A	C5-C6-N6	-5.28	119.48	123.70
1	6	825	U	N3-C4-O4	5.28	123.10	119.40
1	6	1059	U	N1-C2-N3	-5.28	111.73	114.90
1	6	1070	C	O5'-P-OP2	-5.28	100.95	105.70
1	6	1790	A	N1-C6-N6	5.28	121.77	118.60
36	5	594	U	N3-C2-O2	-5.28	118.50	122.20
36	5	889	U	OP2-P-O3'	5.28	116.82	105.20
36	5	969	C	N3-C4-C5	-5.28	119.79	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1192	C	C2-N1-C1'	5.28	124.61	118.80
36	5	2236	G	O5'-P-OP1	-5.28	100.95	105.70
36	5	2713	U	C6-N1-C2	-5.28	117.83	121.00
36	5	2985	C	OP1-P-OP2	-5.28	111.68	119.60
37	7	53	U	N3-C4-O4	5.28	123.10	119.40
1	2	604	A	C2-N3-C4	5.28	113.24	110.60
1	2	1212	G	C4-N9-C1'	5.28	133.36	126.50
36	1	1541	G	N7-C8-N9	5.28	115.74	113.10
1	6	1112	G	C6-N1-C2	-5.28	121.93	125.10
1	6	1789	G	C4-C5-C6	5.28	121.97	118.80
36	5	271	C	O4'-C1'-N1	5.28	112.42	108.20
36	5	2286	U	OP1-P-O3'	5.28	116.81	105.20
36	5	2743	A	C4-C5-C6	5.28	119.64	117.00
36	5	3229	G	N3-C4-C5	-5.28	125.96	128.60
36	5	3234	A	O5'-P-OP1	5.28	117.03	110.70
36	5	3286	G	N3-C4-N9	5.28	129.17	126.00
1	2	104	A	O4'-C1'-N9	5.28	112.42	108.20
1	2	431	C	C2-N3-C4	5.28	122.54	119.90
36	1	287	G	N3-C4-C5	-5.28	125.96	128.60
36	1	1121	U	O5'-P-OP1	5.28	117.03	110.70
36	1	1320	C	C5-C6-N1	-5.28	118.36	121.00
36	1	1399	A	C5-C6-N6	5.28	127.92	123.70
36	1	3217	C	N1-C1'-C2'	5.28	120.86	114.00
1	6	17	C	C2-N1-C1'	5.28	124.61	118.80
36	5	627	U	N1-C2-O2	-5.28	119.11	122.80
36	5	822	G	C8-N9-C1'	-5.28	120.14	127.00
36	5	2148	U	C6-N1-C2	5.28	124.17	121.00
36	5	3045	G	C5-C6-O6	5.28	131.77	128.60
36	5	3187	A	C2-N3-C4	-5.28	107.96	110.60
36	1	67	A	C6-C5-N7	5.28	135.99	132.30
36	1	1533	U	C4-C5-C6	5.28	122.87	119.70
36	1	1634	G	C4-C5-N7	5.28	112.91	110.80
68	O2	66	LEU	CB-CG-CD2	-5.28	102.03	111.00
1	6	337	G	C4-N9-C1'	5.28	133.36	126.50
1	6	1576	A	C5-C6-N6	-5.28	119.48	123.70
36	5	933	A	OP1-P-OP2	5.28	127.51	119.60
36	5	959	C	C6-N1-C1'	5.28	127.13	120.80
36	5	977	C	C6-N1-C2	-5.28	118.19	120.30
36	5	2127	U	N1-C2-N3	5.28	118.06	114.90
36	5	2279	A	C2-N3-C4	-5.28	107.96	110.60
36	5	2284	C	O5'-P-OP1	-5.28	100.95	105.70
36	5	2988	C	O5'-P-OP2	-5.28	100.95	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3085	G	C4-C5-C6	-5.28	115.64	118.80
36	5	3122	A	N3-C4-C5	5.28	130.49	126.80
36	5	3123	A	O5'-P-OP2	-5.28	100.95	105.70
38	8	90	U	C6-N1-C1'	-5.28	113.81	121.20
40	13	300	ARG	NE-CZ-NH2	-5.28	117.66	120.30
36	1	1323	G	N3-C4-C5	-5.27	125.96	128.60
36	1	1820	U	N3-C2-O2	-5.27	118.51	122.20
36	1	2250	G	N1-C2-N2	-5.27	111.45	116.20
36	1	2417	U	OP2-P-O3'	5.27	116.80	105.20
1	6	397	A	N3-C4-C5	5.27	130.49	126.80
1	6	1601	G	N9-C4-C5	5.27	107.51	105.40
36	5	806	A	C5-C6-N6	5.27	127.92	123.70
36	5	1164	G	C5'-C4'-O4'	-5.27	102.77	109.10
36	5	2145	A	C4-C5-C6	5.27	119.64	117.00
1	2	5	U	O5'-P-OP1	5.27	117.03	110.70
1	2	449	C	N1-C2-N3	5.27	122.89	119.20
1	2	1673	G	C4-N9-C1'	5.27	133.35	126.50
36	1	191	U	C2-N1-C1'	5.27	124.03	117.70
36	1	964	G	C8-N9-C4	-5.27	104.29	106.40
36	1	1841	A	O5'-P-OP2	-5.27	100.95	105.70
36	1	2421	U	C5-C6-N1	-5.27	120.06	122.70
36	1	2554	A	N7-C8-N9	-5.27	111.16	113.80
36	1	2864	A	OP2-P-O3'	5.27	116.80	105.20
36	1	2938	G	C5-C6-O6	-5.27	125.44	128.60
38	4	7	U	OP2-P-O3'	5.27	116.80	105.20
1	6	298	C	C2-N1-C1'	5.27	124.60	118.80
1	6	637	C	C5-C4-N4	-5.27	116.51	120.20
36	5	27	C	C2-N3-C4	5.27	122.54	119.90
36	5	365	A	C2-N3-C4	-5.27	107.96	110.60
36	5	656	A	C5-N7-C8	-5.27	101.26	103.90
36	5	1934	G	N9-C4-C5	-5.27	103.29	105.40
36	5	2251	G	N1-C2-N2	-5.27	111.45	116.20
36	5	2726	C	O4'-C1'-N1	5.27	112.42	108.20
36	5	3083	G	N3-C4-C5	5.27	131.24	128.60
37	7	104	A	C5-C6-N1	-5.27	115.06	117.70
37	7	118	A	OP2-P-O3'	5.27	116.80	105.20
38	8	45	C	C2-N3-C4	-5.27	117.26	119.90
1	2	61	A	C4-C5-N7	5.27	113.34	110.70
1	2	1655	A	C4-N9-C1'	-5.27	116.81	126.30
36	1	1134	G	C6-N1-C2	-5.27	121.94	125.10
36	1	2824	G	N3-C4-N9	5.27	129.16	126.00
36	1	2978	U	N3-C2-O2	-5.27	118.51	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	410	A	C6-C5-N7	-5.27	128.61	132.30
1	6	452	A	N1-C2-N3	5.27	131.94	129.30
36	5	52	A	C4-C5-N7	-5.27	108.06	110.70
36	5	590	G	N3-C2-N2	-5.27	116.21	119.90
37	7	109	G	N9-C1'-C2'	-5.27	106.20	112.00
1	2	5	U	C2-N1-C1'	5.27	124.02	117.70
1	2	1002	G	N3-C2-N2	5.27	123.59	119.90
36	1	197	G	C5-N7-C8	-5.27	101.67	104.30
36	1	306	A	C6-N1-C2	-5.27	115.44	118.60
36	1	500	C	N1-C2-O2	-5.27	115.74	118.90
36	1	652	G	N7-C8-N9	-5.27	110.47	113.10
36	1	2323	G	N1-C6-O6	5.27	123.06	119.90
36	1	2631	U	N1-C2-N3	5.27	118.06	114.90
36	1	2660	G	N1-C2-N2	-5.27	111.46	116.20
36	1	2842	U	C2-N1-C1'	5.27	124.02	117.70
36	1	2944	U	N3-C4-C5	5.27	117.76	114.60
38	4	54	A	N1-C2-N3	5.27	131.94	129.30
1	6	112	A	N1-C6-N6	5.27	121.76	118.60
1	6	542	A	N1-C6-N6	-5.27	115.44	118.60
1	6	634	G	N3-C4-C5	-5.27	125.97	128.60
1	6	1198	G	O5'-P-OP1	-5.27	100.96	105.70
36	5	1289	G	C5-N7-C8	5.27	106.94	104.30
36	5	2187	G	N1-C6-O6	-5.27	116.74	119.90
36	5	2653	C	N3-C4-C5	5.27	124.01	121.90
38	8	149	A	C8-N9-C4	-5.27	103.69	105.80
1	2	49	C	C2-N3-C4	5.27	122.53	119.90
1	2	414	C	C6-N1-C2	-5.27	118.19	120.30
1	2	469	C	O5'-P-OP1	5.27	117.02	110.70
1	2	543	C	C5-C6-N1	5.27	123.63	121.00
1	2	1030	A	C5-N7-C8	-5.27	101.27	103.90
36	1	210	U	C6-N1-C2	-5.27	117.84	121.00
36	1	337	G	N1-C2-N3	-5.27	120.74	123.90
36	1	525	C	C5-C6-N1	-5.27	118.37	121.00
36	1	1323	G	C6-N1-C2	-5.27	121.94	125.10
36	1	1545	A	N1-C2-N3	5.27	131.93	129.30
36	1	3288	G	N1-C2-N2	5.27	120.94	116.20
1	6	246	G	N7-C8-N9	5.27	115.73	113.10
1	6	991	G	N3-C4-N9	-5.27	122.84	126.00
1	6	1005	A	N1-C6-N6	-5.27	115.44	118.60
1	6	1180	C	C2-N1-C1'	5.27	124.59	118.80
1	6	1717	G	N1-C6-O6	5.27	123.06	119.90
36	5	394	G	N3-C2-N2	-5.27	116.21	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	888	A	N1-C6-N6	5.27	121.76	118.60
36	5	1653	G	N9-C4-C5	5.27	107.51	105.40
36	5	1885	U	C4-C5-C6	5.27	122.86	119.70
36	5	1947	G	C4-C5-N7	5.27	112.91	110.80
36	5	2755	C	C2-N3-C4	-5.27	117.27	119.90
37	7	69	C	N1-C2-N3	-5.27	115.51	119.20
38	8	24	G	C6-C5-N7	5.27	133.56	130.40
36	1	1143	A	C4-C5-C6	5.27	119.63	117.00
36	1	2174	G	C5-C6-O6	-5.27	125.44	128.60
36	1	2395	G	C4-C5-N7	5.27	112.91	110.80
37	3	67	G	OP2-P-O3'	5.27	116.79	105.20
1	6	880	C	N3-C4-C5	-5.27	119.79	121.90
36	5	968	G	C5-C6-O6	-5.27	125.44	128.60
36	5	2139	A	OP1-P-O3'	5.27	116.78	105.20
36	5	2786	G	C2-N3-C4	-5.27	109.27	111.90
36	5	3172	A	C6-C5-N7	-5.27	128.61	132.30
1	2	535	A	N7-C8-N9	5.26	116.43	113.80
1	2	576	G	C2-N3-C4	-5.26	109.27	111.90
1	2	915	A	N7-C8-N9	5.26	116.43	113.80
36	1	367	A	C8-N9-C4	5.26	107.91	105.80
36	1	2630	C	N3-C4-C5	5.26	124.01	121.90
36	1	3375	A	OP1-P-O3'	5.26	116.78	105.20
1	6	147	A	N7-C8-N9	5.26	116.43	113.80
1	6	608	U	OP1-P-O3'	5.26	116.78	105.20
36	5	1461	A	C5-C6-N1	5.26	120.33	117.70
36	5	1461	A	N9-C1'-C2'	-5.26	106.21	112.00
36	5	1881	A	C4-C5-C6	5.26	119.63	117.00
36	5	2402	A	OP1-P-O3'	5.26	116.78	105.20
38	8	138	A	C5-N7-C8	5.26	106.53	103.90
1	2	1565	C	N3-C2-O2	5.26	125.58	121.90
36	1	2202	C	N3-C4-C5	-5.26	119.80	121.90
38	4	101	U	O5'-P-OP2	-5.26	100.96	105.70
41	L4	150	LEU	CA-CB-CG	5.26	127.41	115.30
1	6	704	C	C6-N1-C2	-5.26	118.19	120.30
36	5	294	U	O4'-C1'-N1	5.26	112.41	108.20
36	5	372	A	C8-N9-C4	-5.26	103.69	105.80
1	2	1127	G	N3-C4-N9	-5.26	122.84	126.00
1	2	1462	G	N3-C4-N9	-5.26	122.84	126.00
36	1	53	G	C5-N7-C8	5.26	106.93	104.30
36	1	377	A	C6-C5-N7	-5.26	128.62	132.30
36	1	438	A	N9-C4-C5	-5.26	103.70	105.80
36	1	1195	A	O4'-C1'-N9	5.26	112.41	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1320	C	C5-C4-N4	5.26	123.88	120.20
36	1	1401	A	C6-C5-N7	-5.26	128.62	132.30
36	1	1796	G	OP1-P-O3'	5.26	116.78	105.20
36	1	2313	A	OP2-P-O3'	5.26	116.78	105.20
36	1	3277	U	N1-C2-O2	5.26	126.48	122.80
36	5	569	A	C8-N9-C4	5.26	107.91	105.80
36	5	870	G	C4-C5-N7	5.26	112.91	110.80
36	5	966	U	C2-N1-C1'	5.26	124.01	117.70
36	5	1554	U	C6-N1-C1'	-5.26	113.83	121.20
36	5	1766	G	C8-N9-C4	-5.26	104.30	106.40
38	8	107	G	N3-C2-N2	-5.26	116.22	119.90
1	2	1161	C	N3-C2-O2	5.26	125.58	121.90
1	2	1673	G	C8-N9-C4	-5.26	104.30	106.40
36	1	227	G	O5'-P-OP2	-5.26	100.97	105.70
36	1	305	U	C2-N1-C1'	-5.26	111.39	117.70
36	1	1308	A	N3-C4-C5	5.26	130.48	126.80
36	1	1690	C	P-O3'-C3'	-5.26	113.39	119.70
36	1	1838	G	C2-N3-C4	-5.26	109.27	111.90
36	1	1911	A	C5-C6-N1	5.26	120.33	117.70
36	1	3045	G	C8-N9-C4	-5.26	104.30	106.40
38	4	56	G	C8-N9-C1'	-5.26	120.16	127.00
1	6	341	A	O4'-C1'-N9	5.26	112.41	108.20
1	6	795	U	C5-C4-O4	5.26	129.06	125.90
36	5	1051	U	C2-N1-C1'	-5.26	111.39	117.70
36	5	1058	U	C5-C4-O4	-5.26	122.74	125.90
36	5	1126	G	N1-C2-N3	5.26	127.06	123.90
36	5	1208	U	C5-C6-N1	-5.26	120.07	122.70
36	5	2958	A	C6-N1-C2	-5.26	115.44	118.60
36	5	3054	U	N1-C2-N3	5.26	118.06	114.90
36	5	3242	G	C5-N7-C8	5.26	106.93	104.30
38	8	16	G	C5-C6-N1	-5.26	108.87	111.50
36	1	1222	G	N9-C4-C5	-5.26	103.30	105.40
1	6	1035	G	N7-C8-N9	-5.26	110.47	113.10
36	5	854	G	C2-N3-C4	-5.26	109.27	111.90
36	5	2376	G	C6-N1-C2	-5.26	121.94	125.10
36	5	2855	U	N3-C4-O4	5.26	123.08	119.40
40	13	4	ARG	NE-CZ-NH2	-5.26	117.67	120.30
1	2	533	U	OP1-P-OP2	-5.26	111.72	119.60
1	2	1150	G	N3-C4-N9	-5.26	122.85	126.00
36	1	30	G	C8-N9-C1'	5.26	133.83	127.00
36	1	385	A	C5-C6-N6	5.26	127.91	123.70
36	1	428	A	C4-C5-N7	5.26	113.33	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1224	C	N3-C4-C5	-5.26	119.80	121.90
36	1	1540	U	N3-C4-O4	5.26	123.08	119.40
36	1	1715	A	OP1-P-O3'	5.26	116.76	105.20
36	1	1775	G	C4-C5-N7	-5.26	108.70	110.80
36	1	1820	U	N1-C2-O2	5.26	126.48	122.80
36	1	2280	A	C4-C5-C6	5.26	119.63	117.00
36	1	2817	A	N1-C6-N6	-5.26	115.45	118.60
36	1	2893	C	C5-C4-N4	5.26	123.88	120.20
36	1	3044	G	C5-N7-C8	-5.26	101.67	104.30
36	1	3106	A	OP1-P-OP2	5.26	127.49	119.60
36	1	3276	G	C2-N3-C4	-5.26	109.27	111.90
37	3	103	A	N9-C4-C5	5.26	107.90	105.80
54	M8	22	ASP	CB-CG-OD2	5.26	123.03	118.30
77	Q1	13	LEU	CA-CB-CG	5.26	127.39	115.30
1	6	214	G	N3-C4-C5	5.26	131.23	128.60
1	6	415	C	C5-C6-N1	-5.26	118.37	121.00
1	6	1338	C	C5-C4-N4	-5.26	116.52	120.20
8	s6	32	ILE	CB-CA-C	-5.26	101.09	111.60
36	5	609	G	OP1-P-OP2	5.26	127.48	119.60
36	5	992	A	C8-N9-C4	-5.26	103.70	105.80
36	5	1311	G	C4-N9-C1'	5.26	133.33	126.50
36	5	1796	G	N3-C4-C5	-5.26	125.97	128.60
36	5	2253	G	O4'-C1'-N9	-5.26	104.00	108.20
36	5	2282	U	C5-C6-N1	-5.26	120.07	122.70
36	5	2354	C	OP1-P-OP2	5.26	127.49	119.60
36	5	2552	C	N1-C2-O2	5.26	122.05	118.90
36	5	3102	G	O5'-P-OP2	5.26	117.01	110.70
36	5	3112	G	N3-C4-C5	-5.26	125.97	128.60
37	7	14	U	OP1-P-OP2	5.26	127.48	119.60
38	8	12	A	C4-C5-N7	5.26	113.33	110.70
1	2	18	C	C5-C4-N4	-5.25	116.52	120.20
1	2	766	U	N3-C2-O2	-5.25	118.52	122.20
36	1	1534	A	C4-C5-N7	5.25	113.33	110.70
36	1	2828	G	C4-N9-C1'	5.25	133.33	126.50
36	1	2854	U	C5-C6-N1	-5.25	120.07	122.70
36	1	3256	G	O4'-C1'-N9	-5.25	104.00	108.20
1	6	294	C	C5-C6-N1	-5.25	118.37	121.00
1	6	430	G	C6-N1-C2	-5.25	121.95	125.10
36	5	794	U	OP1-P-O3'	5.25	116.76	105.20
36	5	806	A	C5-N7-C8	-5.25	101.27	103.90
36	5	1542	G	N1-C2-N3	5.25	127.05	123.90
36	5	1877	U	C4-C5-C6	5.25	122.85	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	429	G	N7-C8-N9	5.25	115.73	113.10
36	1	148	G	N1-C2-N2	-5.25	111.47	116.20
36	1	928	C	C2-N1-C1'	-5.25	113.02	118.80
36	1	942	U	OP1-P-OP2	-5.25	111.72	119.60
36	1	1905	G	C6-C5-N7	5.25	133.55	130.40
36	1	2384	A	C2-N3-C4	5.25	113.23	110.60
36	1	2649	A	O5'-P-OP1	-5.25	100.97	105.70
36	1	2912	G	N9-C4-C5	5.25	107.50	105.40
1	6	107	C	N3-C4-N4	5.25	121.68	118.00
1	6	811	A	C8-N9-C4	-5.25	103.70	105.80
1	6	1671	A	C6-N1-C2	-5.25	115.45	118.60
36	5	71	A	C8-N9-C4	5.25	107.90	105.80
36	5	729	C	C6-N1-C2	-5.25	118.20	120.30
36	5	749	C	C6-N1-C2	-5.25	118.20	120.30
36	5	1185	C	N1-C2-O2	-5.25	115.75	118.90
36	5	1783	U	O5'-P-OP2	-5.25	100.97	105.70
36	5	2901	G	OP1-P-OP2	-5.25	111.72	119.60
36	5	2944	U	C6-N1-C2	-5.25	117.85	121.00
36	5	3200	G	C4-N9-C1'	5.25	133.33	126.50
36	5	3312	U	C5-C6-N1	-5.25	120.07	122.70
36	1	385	A	N3-C4-N9	-5.25	123.20	127.40
36	1	592	A	N1-C6-N6	5.25	121.75	118.60
36	1	1124	U	N1-C2-N3	5.25	118.05	114.90
36	1	1927	G	N3-C4-N9	5.25	129.15	126.00
36	1	2701	U	N3-C4-O4	5.25	123.08	119.40
36	1	3106	A	N9-C4-C5	5.25	107.90	105.80
37	3	118	A	O5'-P-OP2	-5.25	100.97	105.70
38	4	41	A	C8-N9-C4	-5.25	103.70	105.80
1	6	120	U	OP2-P-O3'	5.25	116.75	105.20
36	5	907	G	C5-C6-O6	-5.25	125.45	128.60
36	5	1053	A	OP2-P-O3'	5.25	116.75	105.20
36	5	1154	A	C6-N1-C2	-5.25	115.45	118.60
36	5	1282	G	C2-N3-C4	-5.25	109.27	111.90
36	5	2748	A	C2-N3-C4	-5.25	107.97	110.60
36	5	3058	U	C2-N3-C4	5.25	130.15	127.00
36	5	3060	C	N1-C2-O2	-5.25	115.75	118.90
36	5	3378	C	N3-C4-C5	5.25	124.00	121.90
38	8	12	A	OP2-P-O3'	5.25	116.75	105.20
1	2	11	A	C6-N1-C2	-5.25	115.45	118.60
1	2	346	G	N3-C4-C5	5.25	131.22	128.60
36	1	2755	C	C2-N3-C4	-5.25	117.28	119.90
38	4	111	A	N1-C2-N3	-5.25	126.67	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1452	U	C5-C4-O4	-5.25	122.75	125.90
1	6	1609	U	C6-N1-C1'	5.25	128.55	121.20
36	5	959	C	OP1-P-OP2	-5.25	111.72	119.60
36	5	1716	U	OP1-P-O3'	5.25	116.75	105.20
36	5	2302	G	N1-C2-N2	-5.25	111.47	116.20
36	5	3065	G	C5-C6-N1	-5.25	108.88	111.50
1	2	338	C	C6-N1-C2	-5.25	118.20	120.30
1	2	362	G	N1-C6-O6	5.25	123.05	119.90
36	1	107	A	C4-C5-C6	-5.25	114.38	117.00
36	1	321	C	N3-C4-C5	-5.25	119.80	121.90
36	1	342	A	N3-C4-C5	5.25	130.47	126.80
36	1	996	A	N3-C4-N9	5.25	131.60	127.40
36	1	1115	G	O4'-C1'-N9	-5.25	104.00	108.20
36	1	2184	U	C2-N1-C1'	5.25	124.00	117.70
36	1	2238	G	N1-C6-O6	-5.25	116.75	119.90
36	1	2714	G	C2-N3-C4	-5.25	109.28	111.90
36	1	2760	C	C6-N1-C1'	5.25	127.10	120.80
36	1	3248	C	O5'-P-OP2	5.25	117.00	110.70
36	1	3308	C	C5-C4-N4	5.25	123.88	120.20
1	6	1137	A	N9-C4-C5	-5.25	103.70	105.80
1	6	1704	U	N1-C2-O2	5.25	126.47	122.80
36	5	201	A	C2-N3-C4	-5.25	107.98	110.60
36	5	229	G	C5-N7-C8	-5.25	101.67	104.30
36	5	1152	G	P-O3'-C3'	5.25	126.00	119.70
36	5	1525	G	N3-C4-C5	-5.25	125.98	128.60
36	5	1871	U	C5-C4-O4	-5.25	122.75	125.90
36	5	2357	A	N1-C6-N6	-5.25	115.45	118.60
38	8	14	C	N3-C4-C5	-5.25	119.80	121.90
1	2	601	A	C4-C5-C6	5.25	119.62	117.00
1	2	1027	A	C8-N9-C4	-5.25	103.70	105.80
1	2	1266	U	N3-C2-O2	5.25	125.87	122.20
36	1	403	C	N1-C2-N3	5.25	122.87	119.20
36	1	558	U	O5'-P-OP2	-5.25	100.98	105.70
36	1	906	A	C4-C5-C6	5.25	119.62	117.00
36	1	1153	A	C8-N9-C1'	-5.25	118.26	127.70
36	1	1524	A	C2-N3-C4	5.25	113.22	110.60
36	1	2127	U	C4-C5-C6	-5.25	116.55	119.70
36	1	2865	U	C4-C5-C6	5.25	122.85	119.70
36	1	3310	A	C5-N7-C8	-5.25	101.28	103.90
36	1	3395	G	O5'-P-OP2	-5.25	100.98	105.70
38	4	104	A	O5'-P-OP2	5.25	117.00	110.70
40	L3	146	ARG	NE-CZ-NH1	5.25	122.92	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	360	A	C2-N3-C4	-5.25	107.98	110.60
1	6	1155	G	N1-C6-O6	5.25	123.05	119.90
1	6	1551	U	N1-C2-O2	-5.25	119.13	122.80
1	6	1614	A	N9-C4-C5	-5.25	103.70	105.80
36	5	351	A	C2-N3-C4	5.25	113.22	110.60
36	5	962	A	N7-C8-N9	5.25	116.42	113.80
36	5	1191	U	C5-C4-O4	5.25	129.05	125.90
36	5	1329	U	C5-C4-O4	-5.25	122.75	125.90
36	5	1398	U	N3-C2-O2	-5.25	118.53	122.20
36	5	2243	A	C4-C5-C6	5.25	119.62	117.00
36	5	2394	G	C4-C5-N7	5.25	112.90	110.80
36	5	2620	G	N1-C2-N2	-5.25	111.48	116.20
36	5	2768	U	C2-N1-C1'	-5.25	111.41	117.70
36	5	2886	U	OP1-P-OP2	5.25	127.47	119.60
38	8	66	A	C2-N3-C4	-5.25	107.98	110.60
58	n2	50	LEU	CA-CB-CG	5.25	127.37	115.30
1	2	615	A	N3-C4-C5	-5.25	123.13	126.80
1	2	1201	G	C8-N9-C4	5.25	108.50	106.40
36	1	166	C	N3-C2-O2	-5.25	118.23	121.90
36	1	625	G	C8-N9-C4	5.25	108.50	106.40
36	1	1060	U	N1-C2-N3	5.25	118.05	114.90
36	1	1367	G	N7-C8-N9	5.25	115.72	113.10
36	1	1881	A	OP2-P-O3'	5.25	116.74	105.20
36	1	2343	C	C6-N1-C1'	-5.25	114.50	120.80
36	1	2882	U	C5-C4-O4	5.25	129.05	125.90
36	5	347	G	OP1-P-O3'	5.25	116.74	105.20
36	5	928	C	OP1-P-O3'	5.25	116.74	105.20
36	5	1536	G	C5-C6-N1	-5.25	108.88	111.50
37	7	10	C	C6-N1-C2	5.25	122.40	120.30
1	2	350	U	C6-N1-C1'	5.24	128.54	121.20
36	1	24	G	N7-C8-N9	-5.24	110.48	113.10
36	1	58	G	OP1-P-OP2	-5.24	111.73	119.60
36	1	1939	G	N1-C2-N3	5.24	127.05	123.90
36	1	3263	G	N3-C2-N2	5.24	123.57	119.90
37	3	17	A	N1-C2-N3	5.24	131.92	129.30
1	6	62	A	N1-C6-N6	-5.24	115.45	118.60
1	6	533	U	C5-C6-N1	-5.24	120.08	122.70
1	6	555	A	C5-C6-N1	5.24	120.32	117.70
1	6	560	U	N3-C4-O4	5.24	123.07	119.40
1	6	1077	C	C6-N1-C2	5.24	122.40	120.30
1	6	1298	U	N1-C2-O2	5.24	126.47	122.80
1	6	1420	C	C4-C5-C6	5.24	120.02	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1512	G	N9-C4-C5	-5.24	103.30	105.40
36	5	590	G	C5-C6-O6	5.24	131.75	128.60
36	5	656	A	C4-C5-N7	5.24	113.32	110.70
36	5	918	C	C5-C4-N4	-5.24	116.53	120.20
36	5	1658	G	C4-C5-C6	5.24	121.95	118.80
36	5	2989	U	OP1-P-O3'	5.24	116.74	105.20
36	5	3196	U	C2-N1-C1'	-5.24	111.41	117.70
1	2	414	C	C5-C4-N4	-5.24	116.53	120.20
1	2	1071	U	N3-C4-C5	-5.24	111.45	114.60
36	1	809	G	OP1-P-O3'	5.24	116.73	105.20
36	1	2396	G	O5'-P-OP2	-5.24	100.98	105.70
1	6	797	G	N3-C4-N9	-5.24	122.86	126.00
1	6	1753	A	O5'-P-OP2	5.24	116.99	110.70
36	5	387	A	N1-C6-N6	-5.24	115.45	118.60
36	5	1290	A	N1-C6-N6	5.24	121.75	118.60
36	5	2186	U	N3-C4-C5	-5.24	111.45	114.60
36	5	2276	G	C5-C6-O6	5.24	131.75	128.60
36	5	3146	G	C8-N9-C4	5.24	108.50	106.40
1	2	696	C	N3-C2-O2	-5.24	118.23	121.90
1	2	1291	G	C4-C5-N7	5.24	112.90	110.80
1	2	1462	G	C8-N9-C1'	5.24	133.81	127.00
36	1	1456	A	N9-C4-C5	5.24	107.90	105.80
36	1	1543	G	N7-C8-N9	5.24	115.72	113.10
36	1	1566	A	C8-N9-C4	-5.24	103.70	105.80
37	3	15	C	C6-N1-C2	5.24	122.40	120.30
38	4	139	U	N3-C2-O2	-5.24	118.53	122.20
1	6	68	A	N7-C8-N9	5.24	116.42	113.80
1	6	555	A	C2-N3-C4	5.24	113.22	110.60
1	6	996	U	C6-N1-C2	-5.24	117.86	121.00
1	6	1445	G	N3-C4-N9	-5.24	122.86	126.00
36	5	396	A	C5-C6-N6	5.24	127.89	123.70
36	5	398	A	OP1-P-O3'	5.24	116.73	105.20
36	5	813	G	N3-C2-N2	-5.24	116.23	119.90
36	5	1715	A	O4'-C1'-N9	-5.24	104.01	108.20
36	5	2900	A	C6-C5-N7	-5.24	128.63	132.30
1	2	1101	G	N1-C6-O6	-5.24	116.76	119.90
1	2	1464	G	N7-C8-N9	5.24	115.72	113.10
36	1	577	C	C5-C6-N1	-5.24	118.38	121.00
36	1	966	U	N3-C4-O4	5.24	123.07	119.40
36	1	1400	G	C6-C5-N7	-5.24	127.26	130.40
36	1	1559	A	C4-C5-N7	5.24	113.32	110.70
36	1	1924	U	N3-C2-O2	-5.24	118.53	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2157	G	C4-C5-C6	5.24	121.94	118.80
37	3	79	A	C6-N1-C2	5.24	121.74	118.60
52	M6	149	TYR	N-CA-C	5.24	125.15	111.00
1	6	1035	G	C8-N9-C4	5.24	108.50	106.40
1	6	1041	G	N1-C2-N3	5.24	127.04	123.90
1	6	1794	A	OP1-P-O3'	5.24	116.73	105.20
36	5	373	A	C8-N9-C4	-5.24	103.70	105.80
36	5	990	U	O5'-P-OP1	5.24	116.99	110.70
36	5	1113	G	O5'-P-OP2	5.24	116.99	110.70
36	5	1598	G	N3-C4-N9	5.24	129.14	126.00
36	5	1927	G	N9-C4-C5	-5.24	103.30	105.40
36	5	1947	G	C5-C6-O6	-5.24	125.46	128.60
36	5	2793	G	N1-C2-N2	5.24	120.92	116.20
36	5	2943	G	O5'-P-OP2	-5.24	100.98	105.70
36	5	3369	G	N1-C2-N3	5.24	127.04	123.90
37	7	1	G	C5-N7-C8	-5.24	101.68	104.30
37	7	38	U	N3-C4-C5	5.24	117.74	114.60
51	m5	67	ARG	N-CA-C	5.24	125.15	111.00
1	2	73	U	OP1-P-O3'	5.24	116.72	105.20
36	1	495	G	N3-C2-N2	-5.24	116.23	119.90
36	1	3330	A	N3-C4-C5	-5.24	123.13	126.80
1	6	617	U	N3-C4-O4	5.24	123.07	119.40
1	6	1269	U	C2-N1-C1'	5.24	123.98	117.70
36	5	947	G	C4-C5-C6	5.24	121.94	118.80
36	5	996	A	O5'-P-OP1	5.24	116.98	110.70
36	5	1693	C	C6-N1-C2	5.24	122.39	120.30
36	5	1711	C	C6-N1-C2	5.24	122.39	120.30
36	5	2404	A	P-O3'-C3'	-5.24	113.42	119.70
36	5	2751	G	O5'-P-OP2	5.24	116.98	110.70
1	2	347	G	N7-C8-N9	5.24	115.72	113.10
1	2	403	G	N9-C4-C5	5.24	107.49	105.40
36	1	625	G	C4-C5-N7	-5.24	108.71	110.80
36	1	2335	G	O5'-P-OP1	-5.24	100.99	105.70
36	1	2600	C	C2-N1-C1'	5.24	124.56	118.80
36	1	2740	A	C5-N7-C8	-5.24	101.28	103.90
36	1	2922	G	OP2-P-O3'	-5.24	93.68	105.20
36	1	2987	A	N1-C6-N6	5.24	121.74	118.60
36	1	3117	C	N1-C2-O2	5.24	122.04	118.90
36	1	3250	U	N1-C2-O2	5.24	126.46	122.80
37	3	52	G	P-O3'-C3'	5.24	125.98	119.70
37	3	79	A	C5-N7-C8	-5.24	101.28	103.90
1	6	395	U	OP2-P-O3'	5.24	116.72	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1149	G	N3-C2-N2	-5.24	116.23	119.90
1	6	1604	U	C2-N3-C4	5.24	130.14	127.00
36	5	3325	G	N3-C2-N2	5.24	123.56	119.90
36	5	3343	G	N1-C2-N2	-5.24	111.49	116.20
37	7	7	G	N3-C2-N2	-5.24	116.23	119.90
1	2	571	G	N3-C4-C5	5.23	131.22	128.60
1	2	1127	G	N7-C8-N9	5.23	115.72	113.10
1	2	1643	U	C5-C6-N1	-5.23	120.08	122.70
36	1	1845	G	N3-C2-N2	-5.23	116.24	119.90
36	1	2860	U	C2-N3-C4	5.23	130.14	127.00
37	3	55	A	C8-N9-C4	-5.23	103.71	105.80
1	6	633	U	C5-C6-N1	-5.23	120.08	122.70
36	5	1466	G	C4-C5-N7	5.23	112.89	110.80
36	5	2291	A	P-O3'-C3'	-5.23	113.42	119.70
37	7	101	G	C4-C5-N7	5.23	112.89	110.80
1	2	62	A	N1-C6-N6	5.23	121.74	118.60
1	2	89	G	N3-C4-N9	-5.23	122.86	126.00
1	2	453	U	C6-N1-C2	-5.23	117.86	121.00
36	1	41	G	C4-C5-C6	-5.23	115.66	118.80
36	1	622	A	C6-N1-C2	5.23	121.74	118.60
36	1	1216	C	C6-N1-C2	-5.23	118.21	120.30
36	1	1430	U	C5-C4-O4	-5.23	122.76	125.90
36	1	1459	C	N1-C2-O2	5.23	122.04	118.90
36	1	2218	G	N9-C4-C5	-5.23	103.31	105.40
36	1	2312	A	C4-C5-C6	-5.23	114.38	117.00
36	1	2598	G	C4-C5-N7	5.23	112.89	110.80
36	1	2803	A	C4-C5-N7	-5.23	108.08	110.70
36	1	2969	A	N3-C4-C5	5.23	130.46	126.80
37	3	101	G	N3-C4-C5	5.23	131.22	128.60
38	4	148	G	C4-C5-N7	5.23	112.89	110.80
1	6	1409	G	O5'-P-OP2	5.23	116.98	110.70
36	5	533	A	C2-N3-C4	5.23	113.22	110.60
36	5	1407	A	N1-C6-N6	-5.23	115.46	118.60
36	5	3019	U	C6-N1-C2	-5.23	117.86	121.00
1	2	440	U	N3-C2-O2	5.23	125.86	122.20
1	2	555	A	N3-C4-C5	-5.23	123.14	126.80
1	2	1438	G	N1-C6-O6	5.23	123.04	119.90
36	1	45	A	C2-N3-C4	-5.23	107.98	110.60
36	1	2348	A	N1-C2-N3	5.23	131.91	129.30
36	1	2420	C	N3-C2-O2	-5.23	118.24	121.90
36	1	2979	U	O5'-P-OP2	-5.23	100.99	105.70
1	6	1403	C	C6-N1-C2	5.23	122.39	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	784	A	OP2-P-O3'	5.23	116.71	105.20
36	5	915	A	N3-C4-C5	-5.23	123.14	126.80
36	5	1518	U	N3-C4-C5	-5.23	111.46	114.60
36	5	1939	G	OP2-P-O3'	5.23	116.71	105.20
36	5	2230	C	C6-N1-C2	5.23	122.39	120.30
36	5	2411	U	O5'-P-OP1	5.23	116.98	110.70
36	5	2622	C	N3-C4-C5	-5.23	119.81	121.90
36	5	2678	A	OP2-P-O3'	5.23	116.71	105.20
36	5	3016	A	O5'-P-OP2	-5.23	100.99	105.70
36	5	3044	G	C8-N9-C4	-5.23	104.31	106.40
36	5	3083	G	C5-C6-O6	-5.23	125.46	128.60
1	6	768	C	N3-C2-O2	5.23	125.56	121.90
1	6	1753	A	C4-C5-N7	-5.23	108.08	110.70
36	5	297	G	C8-N9-C1'	-5.23	120.20	127.00
36	5	1127	G	C5-C6-O6	5.23	131.74	128.60
36	5	2280	A	O5'-P-OP2	-5.23	100.99	105.70
36	5	3387	U	N3-C4-O4	5.23	123.06	119.40
1	2	849	C	N3-C4-C5	-5.23	119.81	121.90
36	1	207	U	C2-N3-C4	5.23	130.14	127.00
36	1	1606	U	O5'-P-OP1	-5.23	101.00	105.70
36	1	1775	G	C5-C6-N1	-5.23	108.89	111.50
36	1	2391	G	C2-N3-C4	-5.23	109.29	111.90
37	3	117	A	N1-C6-N6	5.23	121.74	118.60
38	4	113	U	C4-C5-C6	5.23	122.84	119.70
1	6	1750	A	C5-C6-N1	-5.23	115.09	117.70
36	5	89	A	C5-C6-N6	5.23	127.88	123.70
36	5	962	A	N1-C2-N3	5.23	131.91	129.30
36	5	1220	U	N3-C4-C5	5.23	117.74	114.60
36	5	3171	U	C2-N3-C4	-5.23	123.86	127.00
36	5	3247	G	N3-C4-N9	5.23	129.14	126.00
39	12	9	ARG	NE-CZ-NH2	-5.23	117.69	120.30
1	2	570	A	N1-C6-N6	5.23	121.74	118.60
36	1	402	A	C5-N7-C8	-5.23	101.29	103.90
36	1	425	G	C5-C6-N1	5.23	114.11	111.50
36	1	1728	G	C6-C5-N7	-5.23	127.27	130.40
36	1	2629	U	C6-N1-C2	-5.23	117.86	121.00
36	1	3079	U	O5'-P-OP2	5.23	116.97	110.70
38	4	90	U	O4'-C1'-N1	-5.23	104.02	108.20
36	5	101	G	OP2-P-O3'	5.23	116.70	105.20
36	5	596	C	O5'-P-OP1	-5.23	101.00	105.70
36	5	641	C	OP1-P-O3'	5.23	116.70	105.20
36	5	1217	A	O5'-P-OP2	-5.23	101.00	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2254	U	C6-N1-C2	5.23	124.14	121.00
1	2	830	U	C2-N1-C1'	5.22	123.97	117.70
1	2	1134	C	C4-C5-C6	5.22	120.01	117.40
36	1	342	A	OP1-P-O3'	5.22	116.69	105.20
36	1	2651	G	C8-N9-C1'	-5.22	120.21	127.00
36	1	2908	G	C6-C5-N7	-5.22	127.27	130.40
36	1	3106	A	C5-C6-N6	5.22	127.88	123.70
36	1	3308	C	N1-C2-N3	5.22	122.86	119.20
42	L5	21	ARG	NE-CZ-NH2	-5.22	117.69	120.30
1	6	312	A	N9-C4-C5	5.22	107.89	105.80
1	6	453	U	C6-N1-C2	-5.22	117.86	121.00
1	6	625	C	OP2-P-O3'	5.22	116.69	105.20
1	6	1280	C	N1-C2-O2	-5.22	115.77	118.90
1	6	1523	G	C6-C5-N7	-5.22	127.27	130.40
25	d3	57	LEU	CA-CB-CG	-5.22	103.28	115.30
36	5	880	G	N9-C4-C5	5.22	107.49	105.40
36	5	1530	U	N3-C4-O4	5.22	123.06	119.40
36	5	1942	U	C6-N1-C2	-5.22	117.86	121.00
36	5	2248	C	C5-C6-N1	-5.22	118.39	121.00
36	5	2661	G	N3-C2-N2	5.22	123.56	119.90
36	5	2922	G	N1-C2-N3	5.22	127.03	123.90
36	5	3391	A	C5-C6-N1	-5.22	115.09	117.70
59	n3	17	LEU	CA-CB-CG	-5.22	103.29	115.30
36	1	2145	A	C4-C5-N7	5.22	113.31	110.70
36	1	2378	C	C5-C4-N4	-5.22	116.54	120.20
1	6	452	A	N7-C8-N9	-5.22	111.19	113.80
36	5	649	A	N3-C4-N9	5.22	131.58	127.40
36	5	2280	A	C6-C5-N7	-5.22	128.65	132.30
36	5	3026	G	N1-C2-N3	5.22	127.03	123.90
36	5	3290	G	N7-C8-N9	5.22	115.71	113.10
37	7	98	C	C4-C5-C6	5.22	120.01	117.40
1	2	468	A	N7-C8-N9	-5.22	111.19	113.80
36	1	368	G	N1-C2-N2	-5.22	111.50	116.20
36	1	1317	A	C8-N9-C4	-5.22	103.71	105.80
36	1	1578	C	C6-N1-C1'	-5.22	114.53	120.80
36	1	2648	G	C5-C6-O6	-5.22	125.47	128.60
36	1	2828	G	C8-N9-C4	-5.22	104.31	106.40
1	6	393	C	N3-C4-N4	-5.22	114.34	118.00
1	6	1469	A	C5-C6-N1	5.22	120.31	117.70
36	5	1401	A	C5-C6-N1	5.22	120.31	117.70
36	5	2200	U	N3-C2-O2	-5.22	118.55	122.20
1	2	810	G	N7-C8-N9	5.22	115.71	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1241	G	C4-C5-N7	5.22	112.89	110.80
36	1	1171	G	C6-C5-N7	5.22	133.53	130.40
36	1	2912	G	O5'-P-OP1	-5.22	101.00	105.70
36	1	2980	U	C6-N1-C2	-5.22	117.87	121.00
36	1	3080	G	C5-C6-N1	5.22	114.11	111.50
38	4	60	U	C2-N1-C1'	-5.22	111.44	117.70
1	6	11	A	C8-N9-C4	5.22	107.89	105.80
1	6	969	C	C2-N1-C1'	5.22	124.54	118.80
1	6	1413	U	OP2-P-O3'	5.22	116.68	105.20
1	6	1489	U	N3-C4-O4	-5.22	115.75	119.40
1	6	1764	C	C2-N3-C4	-5.22	117.29	119.90
36	5	162	G	C5-C6-N1	5.22	114.11	111.50
36	5	1046	A	C5-C6-N6	5.22	127.88	123.70
36	5	1159	A	N3-C4-C5	5.22	130.45	126.80
36	5	2802	A	O4'-C1'-N9	5.22	112.38	108.20
37	7	53	U	C4-C5-C6	5.22	122.83	119.70
37	7	68	C	C5-C4-N4	5.22	123.85	120.20
36	1	1488	G	N7-C8-N9	5.22	115.71	113.10
36	1	2194	G	OP2-P-O3'	5.22	116.68	105.20
36	1	2198	A	C5-C6-N6	5.22	127.87	123.70
36	1	2326	A	N3-C4-C5	5.22	130.45	126.80
36	1	2522	G	C4-N9-C1'	5.22	133.28	126.50
36	1	2699	G	C5-C6-O6	-5.22	125.47	128.60
36	1	2753	G	C2-N3-C4	5.22	114.51	111.90
37	3	90	U	OP2-P-O3'	5.22	116.68	105.20
36	5	390	G	OP2-P-O3'	5.22	116.68	105.20
36	5	1193	A	OP2-P-O3'	5.22	116.68	105.20
36	5	1222	G	N3-C4-C5	-5.22	125.99	128.60
67	o1	64	VAL	CB-CA-C	-5.22	101.49	111.40
1	2	352	A	O4'-C1'-N9	-5.22	104.03	108.20
1	2	397	A	C8-N9-C4	5.22	107.89	105.80
1	2	1764	C	C6-N1-C2	5.22	122.39	120.30
36	1	315	C	C2-N3-C4	5.22	122.51	119.90
36	1	1155	C	C6-N1-C2	5.22	122.39	120.30
36	1	2283	G	N3-C2-N2	-5.22	116.25	119.90
36	1	2678	A	C6-N1-C2	-5.22	115.47	118.60
36	1	2716	U	OP2-P-O3'	5.22	116.68	105.20
37	3	63	A	C8-N9-C4	5.22	107.89	105.80
38	4	145	U	C6-N1-C2	5.22	124.13	121.00
1	6	6	G	C6-C5-N7	-5.22	127.27	130.40
1	6	144	U	C6-N1-C2	-5.22	117.87	121.00
1	6	144	U	O4'-C1'-N1	5.22	112.37	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	538	A	N1-C6-N6	5.22	121.73	118.60
1	6	1247	U	N1-C2-O2	5.22	126.45	122.80
1	6	1522	U	OP1-P-OP2	5.22	127.42	119.60
1	6	1700	C	P-O3'-C3'	5.22	125.96	119.70
36	5	810	A	C6-C5-N7	-5.22	128.65	132.30
36	5	1329	U	OP1-P-O3'	5.22	116.68	105.20
36	5	1520	G	C2-N3-C4	5.22	114.51	111.90
36	5	1931	U	C6-N1-C2	5.22	124.13	121.00
36	5	2674	A	C6-C5-N7	5.22	135.95	132.30
36	5	2703	A	C8-N9-C1'	-5.22	118.31	127.70
36	5	2705	A	N9-C4-C5	5.22	107.89	105.80
36	5	2768	U	C2-N3-C4	-5.22	123.87	127.00
36	5	3006	A	C6-N1-C2	-5.22	115.47	118.60
36	5	3227	A	C5-N7-C8	-5.22	101.29	103.90
37	7	102	A	C4-C5-C6	-5.22	114.39	117.00
38	8	38	U	C2-N1-C1'	5.22	123.96	117.70
1	2	546	U	OP2-P-O3'	5.21	116.67	105.20
1	2	1596	C	C6-N1-C1'	-5.21	114.54	120.80
36	1	85	A	N3-C4-N9	-5.21	123.23	127.40
36	1	331	G	O4'-C1'-N9	-5.21	104.03	108.20
36	1	1065	A	C2-N3-C4	-5.21	107.99	110.60
36	1	1233	G	C8-N9-C4	-5.21	104.31	106.40
36	1	2368	A	C5-N7-C8	-5.21	101.29	103.90
36	1	2424	A	N3-C4-N9	-5.21	123.23	127.40
36	1	2713	U	C6-N1-C1'	-5.21	113.90	121.20
36	1	3221	C	O5'-P-OP1	-5.21	101.01	105.70
41	L4	327	LEU	CA-CB-CG	5.21	127.29	115.30
1	6	109	G	C8-N9-C4	5.21	108.49	106.40
1	6	347	G	C5-C6-O6	-5.21	125.47	128.60
1	6	1004	U	C2-N3-C4	-5.21	123.87	127.00
1	6	1431	C	N1-C2-O2	5.21	122.03	118.90
36	5	642	U	C2-N1-C1'	-5.21	111.44	117.70
36	5	858	A	C5-C6-N1	5.21	120.31	117.70
36	5	1007	U	O5'-P-OP2	5.21	116.96	110.70
36	5	1125	U	O5'-P-OP1	-5.21	101.01	105.70
36	5	2944	U	C2-N3-C4	-5.21	123.87	127.00
1	2	1114	G	C2-N3-C4	5.21	114.51	111.90
1	2	1789	G	C5-C6-O6	-5.21	125.47	128.60
36	5	647	A	C2-N3-C4	-5.21	107.99	110.60
36	5	2815	G	N1-C6-O6	5.21	123.03	119.90
37	7	97	A	N1-C6-N6	5.21	121.73	118.60
1	2	162	A	C8-N9-C4	-5.21	103.72	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1594	G	N7-C8-N9	5.21	115.70	113.10
36	1	504	A	N1-C2-N3	5.21	131.91	129.30
36	1	742	G	C8-N9-C4	-5.21	104.31	106.40
36	1	1307	G	N3-C2-N2	-5.21	116.25	119.90
36	1	1355	A	C6-N1-C2	5.21	121.73	118.60
36	1	2650	U	N3-C2-O2	-5.21	118.55	122.20
36	1	2750	U	N3-C2-O2	-5.21	118.55	122.20
36	1	2957	G	C8-N9-C4	-5.21	104.31	106.40
1	6	128	U	O4'-C1'-N1	5.21	112.37	108.20
1	6	179	A	C4-C5-C6	5.21	119.61	117.00
1	6	247	A	C2-N3-C4	-5.21	107.99	110.60
1	6	473	A	C5-N7-C8	5.21	106.51	103.90
1	6	639	U	C4-C5-C6	-5.21	116.57	119.70
1	6	972	G	N1-C2-N3	5.21	127.03	123.90
1	6	1134	C	C4-C5-C6	5.21	120.01	117.40
3	s1	233	GLY	N-CA-C	5.21	126.13	113.10
36	5	1176	C	N3-C4-C5	5.21	123.98	121.90
36	5	3124	G	N1-C6-O6	5.21	123.03	119.90
38	8	48	A	C4-C5-C6	-5.21	114.39	117.00
36	1	645	A	N1-C2-N3	5.21	131.91	129.30
36	1	697	A	N9-C1'-C2'	-5.21	106.27	112.00
36	1	1316	C	OP1-P-OP2	5.21	127.42	119.60
36	1	2137	U	C4-C5-C6	5.21	122.83	119.70
36	1	2183	A	C6-N1-C2	-5.21	115.47	118.60
36	1	2407	C	N3-C4-C5	-5.21	119.82	121.90
1	6	1139	A	N7-C8-N9	5.21	116.41	113.80
1	6	1366	U	C6-N1-C2	5.21	124.13	121.00
36	5	2322	C	N3-C2-O2	-5.21	118.25	121.90
37	7	21	G	N3-C4-N9	-5.21	122.87	126.00
1	2	98	U	N3-C4-O4	5.21	123.05	119.40
1	2	536	C	C2-N1-C1'	5.21	124.53	118.80
1	2	949	C	C5-C6-N1	5.21	123.60	121.00
1	2	1773	C	N3-C4-N4	5.21	121.65	118.00
36	1	276	U	N1-C2-O2	-5.21	119.15	122.80
36	1	652	G	C4-C5-N7	-5.21	108.72	110.80
36	1	979	U	C6-N1-C1'	5.21	128.49	121.20
36	1	1175	C	OP1-P-OP2	5.21	127.41	119.60
36	1	1787	A	C8-N9-C4	5.21	107.88	105.80
36	1	2407	C	C4-C5-C6	5.21	120.00	117.40
38	4	55	U	OP2-P-O3'	5.21	116.66	105.20
38	4	103	G	C6-C5-N7	-5.21	127.27	130.40
56	N0	144	LEU	CA-CB-CG	-5.21	103.32	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	751	G	C4-N9-C1'	-5.21	119.73	126.50
1	6	1276	U	OP1-P-OP2	-5.21	111.79	119.60
1	6	1475	A	C2-N3-C4	-5.21	108.00	110.60
1	6	1556	A	C2-N3-C4	-5.21	108.00	110.60
36	5	514	G	O4'-C1'-N9	5.21	112.37	108.20
36	5	3218	A	C2-N3-C4	-5.21	108.00	110.60
1	2	333	A	C6-N1-C2	-5.21	115.48	118.60
1	2	777	C	N1-C2-O2	5.21	122.02	118.90
36	1	330	G	N3-C4-C5	-5.21	126.00	128.60
36	1	402	A	C5-C6-N1	5.21	120.30	117.70
36	1	1525	G	C6-N1-C2	-5.21	121.98	125.10
36	1	1760	A	N1-C6-N6	-5.21	115.48	118.60
36	1	2243	A	C6-N1-C2	-5.21	115.48	118.60
36	1	2647	A	N3-C4-N9	5.21	131.56	127.40
36	1	2871	G	N9-C4-C5	-5.21	103.32	105.40
36	1	2941	A	N1-C6-N6	5.21	121.72	118.60
36	1	2946	A	C6-N1-C2	-5.21	115.48	118.60
36	1	2985	C	C2-N1-C1'	-5.21	113.07	118.80
36	1	3127	A	N9-C4-C5	5.21	107.88	105.80
38	4	2	A	C2-N3-C4	-5.21	108.00	110.60
1	6	799	A	N1-C2-N3	5.21	131.90	129.30
1	6	905	A	C4-C5-N7	-5.21	108.10	110.70
1	6	1116	A	C8-N9-C4	-5.21	103.72	105.80
1	6	1501	C	OP2-P-O3'	5.21	116.65	105.20
36	5	277	G	N1-C2-N3	5.21	127.02	123.90
36	5	514	G	O5'-P-OP2	-5.21	101.01	105.70
36	5	519	A	C6-N1-C2	-5.21	115.48	118.60
36	5	531	G	N1-C2-N3	5.21	127.02	123.90
36	5	2116	G	N9-C4-C5	5.21	107.48	105.40
36	5	2137	U	O5'-P-OP2	5.21	116.95	110.70
36	5	2522	G	C8-N9-C4	5.21	108.48	106.40
36	5	2978	U	O4'-C1'-N1	5.21	112.36	108.20
36	5	3039	C	N3-C4-C5	-5.21	119.82	121.90
48	m1	166	LYS	N-CA-C	-5.21	96.94	111.00
1	2	1027	A	N1-C6-N6	-5.21	115.48	118.60
1	2	1757	G	C5-C6-N1	5.21	114.10	111.50
36	1	1329	U	N1-C2-N3	5.21	118.02	114.90
36	1	3085	G	C5-C6-N1	5.21	114.10	111.50
36	1	3390	G	N3-C4-N9	5.21	129.12	126.00
1	6	980	G	C6-C5-N7	-5.21	127.28	130.40
36	5	41	G	N1-C6-O6	-5.21	116.78	119.90
36	5	1019	G	N3-C4-C5	5.21	131.20	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1692	U	N3-C4-C5	5.21	117.72	114.60
36	5	1870	C	N3-C4-C5	-5.21	119.82	121.90
1	2	1022	C	N3-C2-O2	-5.20	118.26	121.90
1	2	1610	G	C6-C5-N7	-5.20	127.28	130.40
36	1	305	U	C5-C4-O4	5.20	129.02	125.90
36	1	495	G	C8-N9-C1'	5.20	133.76	127.00
36	1	894	G	N3-C4-C5	-5.20	126.00	128.60
36	1	2191	U	N1-C2-O2	5.20	126.44	122.80
36	1	2875	U	C4-C5-C6	5.20	122.82	119.70
36	1	3173	G	C8-N9-C1'	-5.20	120.24	127.00
36	1	3372	A	N1-C6-N6	-5.20	115.48	118.60
38	4	53	A	C4-C5-C6	5.20	119.60	117.00
1	6	12	U	C5-C4-O4	-5.20	122.78	125.90
1	6	1372	U	N1-C2-N3	5.20	118.02	114.90
36	5	421	G	C4-C5-C6	5.20	121.92	118.80
36	5	913	A	C5-N7-C8	5.20	106.50	103.90
36	5	1489	A	C6-C5-N7	-5.20	128.66	132.30
36	5	1508	C	C4-C5-C6	5.20	120.00	117.40
36	5	1517	G	N1-C2-N3	5.20	127.02	123.90
36	5	2147	A	N1-C6-N6	5.20	121.72	118.60
36	5	2433	U	N3-C2-O2	-5.20	118.56	122.20
36	5	2702	A	OP1-P-O3'	5.20	116.65	105.20
36	5	2767	U	N3-C2-O2	-5.20	118.56	122.20
56	n0	170	THR	C-N-CA	-5.20	108.69	121.70
1	2	435	C	C6-N1-C2	5.20	122.38	120.30
36	1	2971	A	N7-C8-N9	5.20	116.40	113.80
38	4	18	U	C5-C6-N1	5.20	125.30	122.70
1	6	176	C	C2-N3-C4	5.20	122.50	119.90
1	6	1638	G	O5'-P-OP2	-5.20	101.02	105.70
36	5	62	A	C4-C5-N7	5.20	113.30	110.70
36	5	974	G	N1-C6-O6	5.20	123.02	119.90
36	5	995	U	C6-N1-C2	5.20	124.12	121.00
36	5	1520	G	C5-C6-O6	-5.20	125.48	128.60
36	5	1836	C	OP2-P-O3'	5.20	116.64	105.20
36	5	2178	A	C6-N1-C2	-5.20	115.48	118.60
36	5	2713	U	N3-C4-C5	-5.20	111.48	114.60
1	2	465	G	C8-N9-C4	-5.20	104.32	106.40
1	2	625	C	C2-N3-C4	5.20	122.50	119.90
1	2	897	C	C2-N1-C1'	5.20	124.52	118.80
1	2	1092	A	O4'-C1'-N9	5.20	112.36	108.20
36	1	113	C	O5'-P-OP1	-5.20	101.02	105.70
36	1	1005	G	N3-C4-N9	-5.20	122.88	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1401	A	N1-C6-N6	5.20	121.72	118.60
36	1	2396	G	OP1-P-O3'	5.20	116.64	105.20
36	1	2893	C	N3-C4-N4	-5.20	114.36	118.00
36	1	3039	C	OP2-P-O3'	5.20	116.64	105.20
36	1	3075	G	C5-C6-O6	-5.20	125.48	128.60
36	1	3142	A	N1-C2-N3	5.20	131.90	129.30
36	1	3262	U	OP1-P-OP2	-5.20	111.80	119.60
1	6	1588	G	C4-C5-N7	-5.20	108.72	110.80
1	6	1758	U	C6-N1-C2	-5.20	117.88	121.00
4	s2	233	GLN	C-N-CA	-5.20	100.16	122.00
36	5	52	A	C5-C6-N6	5.20	127.86	123.70
36	5	209	A	N9-C4-C5	-5.20	103.72	105.80
36	5	514	G	N1-C2-N3	5.20	127.02	123.90
36	5	534	U	N1-C2-O2	5.20	126.44	122.80
36	5	1331	U	C4-C5-C6	5.20	122.82	119.70
36	5	1907	C	C6-N1-C1'	5.20	127.04	120.80
36	5	2125	A	O4'-C1'-N9	-5.20	104.04	108.20
36	5	2262	A	O5'-P-OP2	-5.20	101.02	105.70
36	5	2549	G	C8-N9-C1'	-5.20	120.24	127.00
36	5	2607	G	C8-N9-C1'	-5.20	120.24	127.00
36	5	2857	C	N3-C4-N4	-5.20	114.36	118.00
65	n9	20	GLY	N-CA-C	5.20	126.10	113.10
1	2	1215	C	N3-C4-N4	-5.20	114.36	118.00
36	1	891	G	C8-N9-C1'	5.20	133.76	127.00
36	1	1480	G	N3-C4-C5	5.20	131.20	128.60
36	1	1761	C	N3-C4-C5	5.20	123.98	121.90
36	1	2287	C	C6-N1-C1'	-5.20	114.56	120.80
36	1	2362	C	N3-C2-O2	-5.20	118.26	121.90
36	1	2700	G	C8-N9-C1'	-5.20	120.24	127.00
36	1	2703	A	C8-N9-C1'	-5.20	118.34	127.70
36	1	2757	U	N1-C2-N3	5.20	118.02	114.90
36	1	2800	G	C4-C5-N7	5.20	112.88	110.80
36	1	3040	A	N1-C2-N3	5.20	131.90	129.30
1	6	611	U	N1-C2-O2	5.20	126.44	122.80
36	5	1084	A	C5-C6-N6	-5.20	119.54	123.70
36	5	1944	U	C5-C6-N1	5.20	125.30	122.70
36	5	2646	C	C2-N3-C4	-5.20	117.30	119.90
36	5	2845	A	C8-N9-C4	-5.20	103.72	105.80
36	5	3126	C	C6-N1-C2	5.20	122.38	120.30
37	7	68	C	C2-N3-C4	-5.20	117.30	119.90
47	m0	204	GLY	N-CA-C	5.20	126.10	113.10
64	n8	46	ASP	CB-CG-OD1	5.20	122.98	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	318	A	N3-C4-C5	5.20	130.44	126.80
79	Q3	49	ARG	NE-CZ-NH2	-5.20	117.70	120.30
1	6	624	G	N1-C2-N3	-5.20	120.78	123.90
36	5	73	C	C5-C6-N1	-5.20	118.40	121.00
36	5	1839	A	OP1-P-O3'	5.20	116.63	105.20
36	5	2361	A	P-O3'-C3'	5.20	125.94	119.70
36	5	2938	G	C5-N7-C8	-5.20	101.70	104.30
36	5	2982	A	N1-C2-N3	-5.20	126.70	129.30
36	1	1155	C	C5-C6-N1	-5.20	118.40	121.00
36	1	1164	G	C5-C6-O6	-5.20	125.48	128.60
36	1	2817	A	C5-N7-C8	5.20	106.50	103.90
1	6	13	C	C6-N1-C2	-5.20	118.22	120.30
1	6	233	C	C5-C6-N1	5.20	123.60	121.00
1	6	1383	G	N3-C4-N9	5.20	129.12	126.00
1	6	1582	U	C6-N1-C1'	-5.20	113.92	121.20
1	6	1745	G	C6-C5-N7	-5.20	127.28	130.40
36	5	794	U	N3-C4-C5	-5.20	111.48	114.60
36	5	1506	A	N9-C4-C5	5.20	107.88	105.80
36	5	1554	U	C2-N1-C1'	5.20	123.94	117.70
36	5	2166	A	N9-C4-C5	-5.20	103.72	105.80
36	5	2940	A	N3-C4-C5	-5.20	123.16	126.80
36	5	2952	G	OP1-P-O3'	-5.20	93.77	105.20
36	5	3319	U	C6-N1-C2	-5.20	117.88	121.00
1	2	1082	C	N3-C2-O2	-5.19	118.26	121.90
36	1	2925	C	N1-C2-O2	-5.19	115.78	118.90
1	6	341	A	C5-C6-N1	5.19	120.30	117.70
1	6	1582	U	C5-C4-O4	-5.19	122.78	125.90
1	6	1715	G	C4-C5-N7	5.19	112.88	110.80
36	5	1854	C	N3-C4-C5	-5.19	119.82	121.90
36	5	3129	A	N7-C8-N9	5.19	116.40	113.80
1	2	381	C	O5'-P-OP1	-5.19	101.03	105.70
1	2	1192	C	C2-N1-C1'	-5.19	113.09	118.80
1	2	1658	G	C4-C5-N7	5.19	112.88	110.80
36	1	43	A	N9-C4-C5	5.19	107.88	105.80
36	1	100	A	C6-C5-N7	-5.19	128.66	132.30
36	1	107	A	N7-C8-N9	5.19	116.40	113.80
36	1	363	G	C6-N1-C2	-5.19	121.98	125.10
36	1	1116	G	O5'-P-OP1	-5.19	101.03	105.70
36	1	1555	U	N3-C2-O2	5.19	125.83	122.20
36	1	1878	G	N1-C2-N2	5.19	120.87	116.20
36	1	2352	A	N3-C4-N9	5.19	131.55	127.40
36	1	2970	C	OP1-P-OP2	5.19	127.39	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3318	G	C8-N9-C4	-5.19	104.32	106.40
1	6	752	A	C2-N3-C4	-5.19	108.00	110.60
1	6	860	U	C4-C5-C6	5.19	122.81	119.70
1	6	883	C	C5-C6-N1	5.19	123.60	121.00
1	6	1484	G	N3-C4-C5	-5.19	126.00	128.60
1	6	1523	G	C8-N9-C1'	-5.19	120.25	127.00
1	6	1547	A	C4-C5-C6	-5.19	114.40	117.00
36	5	362	U	N3-C2-O2	-5.19	118.57	122.20
36	5	428	A	C6-C5-N7	-5.19	128.66	132.30
36	5	657	A	OP2-P-O3'	5.19	116.62	105.20
36	5	1142	G	C6-C5-N7	-5.19	127.28	130.40
36	5	1158	A	N1-C6-N6	-5.19	115.48	118.60
36	5	1192	C	N3-C4-N4	5.19	121.64	118.00
36	5	1820	U	C6-N1-C2	-5.19	117.88	121.00
36	5	1904	C	C2-N3-C4	-5.19	117.30	119.90
36	5	2189	U	N1-C2-N3	-5.19	111.78	114.90
36	5	2793	G	C4-N9-C1'	-5.19	119.75	126.50
36	5	3172	A	C4-C5-N7	5.19	113.30	110.70
36	1	411	U	N3-C2-O2	5.19	125.83	122.20
36	1	1099	A	N9-C4-C5	-5.19	103.72	105.80
36	1	1186	G	N1-C6-O6	-5.19	116.78	119.90
36	1	1736	G	C4-C5-N7	5.19	112.88	110.80
36	1	2957	G	C4-C5-C6	-5.19	115.69	118.80
36	1	3034	C	O5'-P-OP1	5.19	116.93	110.70
37	3	40	C	C5-C4-N4	-5.19	116.57	120.20
40	L3	25	ILE	CB-CA-C	-5.19	101.22	111.60
51	M5	12	ARG	NE-CZ-NH1	-5.19	117.70	120.30
57	N1	83	ARG	NE-CZ-NH2	-5.19	117.70	120.30
1	6	559	C	OP1-P-OP2	-5.19	111.81	119.60
1	6	1027	A	C4-C5-N7	-5.19	108.10	110.70
1	6	1673	G	C4-C5-C6	-5.19	115.69	118.80
36	5	872	U	O5'-P-OP1	5.19	116.93	110.70
36	5	1115	G	C8-N9-C4	5.19	108.48	106.40
36	5	1719	G	C5-C6-O6	-5.19	125.49	128.60
36	5	2210	G	C8-N9-C4	-5.19	104.32	106.40
36	5	2337	C	O5'-P-OP2	-5.19	101.03	105.70
36	5	2697	A	N9-C4-C5	-5.19	103.72	105.80
38	8	26	U	N3-C2-O2	-5.19	118.57	122.20
1	2	1205	C	C6-N1-C2	5.19	122.38	120.30
36	1	1097	G	N1-C6-O6	5.19	123.01	119.90
36	1	2244	A	C5-C6-N1	5.19	120.30	117.70
36	1	2610	G	C5-C6-O6	-5.19	125.49	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3174	A	O4'-C1'-N9	5.19	112.35	108.20
37	3	52	G	O5'-P-OP2	-5.19	101.03	105.70
1	6	811	A	N3-C4-C5	-5.19	123.17	126.80
36	5	338	A	N9-C4-C5	5.19	107.88	105.80
36	5	1777	U	O5'-P-OP2	5.19	116.93	110.70
36	5	1790	G	C8-N9-C1'	-5.19	120.25	127.00
36	5	2628	A	N1-C2-N3	5.19	131.90	129.30
36	5	3137	C	O5'-P-OP2	-5.19	101.03	105.70
1	2	1297	G	C8-N9-C4	5.19	108.47	106.40
1	2	1462	G	C4-C5-C6	-5.19	115.69	118.80
36	1	316	U	N3-C2-O2	-5.19	118.57	122.20
36	1	585	A	C5-N7-C8	5.19	106.49	103.90
36	1	1172	G	OP2-P-O3'	-5.19	93.79	105.20
36	1	2932	U	C2-N3-C4	-5.19	123.89	127.00
36	1	3169	U	P-O3'-C3'	5.19	125.92	119.70
1	6	3	U	N1-C2-O2	5.19	126.43	122.80
1	6	331	A	N3-C4-C5	-5.19	123.17	126.80
1	6	556	A	C2-N3-C4	-5.19	108.01	110.60
36	5	537	A	N1-C6-N6	5.19	121.71	118.60
36	5	1121	U	N3-C4-C5	5.19	117.71	114.60
36	5	2877	G	C6-N1-C2	-5.19	121.99	125.10
36	5	2967	A	N9-C4-C5	5.19	107.88	105.80
37	7	116	C	C5-C4-N4	-5.19	116.57	120.20
36	1	13	A	C6-C5-N7	-5.19	128.67	132.30
36	1	773	G	C8-N9-C4	-5.19	104.33	106.40
36	1	792	G	N9-C4-C5	5.19	107.47	105.40
36	1	2243	A	C4-N9-C1'	5.19	135.63	126.30
36	1	2917	G	C8-N9-C4	5.19	108.47	106.40
36	1	3119	U	N3-C4-C5	-5.19	111.49	114.60
1	6	565	C	N3-C2-O2	-5.19	118.27	121.90
36	5	1320	C	C4-C5-C6	5.19	119.99	117.40
36	5	3028	G	N9-C4-C5	-5.19	103.33	105.40
36	5	3366	G	N7-C8-N9	5.19	115.69	113.10
1	2	1771	U	C5-C6-N1	-5.18	120.11	122.70
1	2	1776	A	OP1-P-O3'	5.18	116.61	105.20
11	S9	109	LEU	CA-CB-CG	5.18	127.22	115.30
36	1	207	U	C4-C5-C6	-5.18	116.59	119.70
36	1	335	G	O4'-C1'-N9	5.18	112.35	108.20
36	1	637	C	N3-C4-N4	-5.18	114.37	118.00
36	1	686	G	C8-N9-C1'	5.18	133.74	127.00
36	1	1717	U	C5-C6-N1	-5.18	120.11	122.70
36	1	2116	G	C4-C5-N7	-5.18	108.73	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	M5	113	LEU	CA-CB-CG	5.18	127.23	115.30
1	6	1093	A	C2-N3-C4	5.18	113.19	110.60
36	5	519	A	N1-C2-N3	5.18	131.89	129.30
36	5	631	U	OP2-P-O3'	5.18	116.61	105.20
36	5	876	A	OP1-P-O3'	-5.18	93.79	105.20
36	5	1535	A	C6-C5-N7	5.18	135.93	132.30
36	5	1827	C	C6-N1-C2	-5.18	118.23	120.30
36	5	2224	A	C5-C6-N1	5.18	120.29	117.70
36	5	2283	G	C4-C5-C6	-5.18	115.69	118.80
36	5	2614	G	N3-C2-N2	5.18	123.53	119.90
36	5	2696	A	N9-C4-C5	5.18	107.87	105.80
36	5	2784	G	C5-C6-O6	-5.18	125.49	128.60
36	5	2841	G	N9-C4-C5	5.18	107.47	105.40
36	5	3145	C	C4-C5-C6	5.18	119.99	117.40
37	7	58	C	C5-C6-N1	5.18	123.59	121.00
38	8	156	U	C5-C6-N1	5.18	125.29	122.70
52	m6	170	LYS	CD-CE-NZ	5.18	123.62	111.70
1	2	994	G	C8-N9-C4	5.18	108.47	106.40
1	2	1210	C	N3-C2-O2	5.18	125.53	121.90
1	2	1455	G	C4-C5-N7	-5.18	108.73	110.80
36	1	318	A	C4-C5-N7	5.18	113.29	110.70
36	1	624	G	N1-C2-N3	5.18	127.01	123.90
36	1	837	A	C2-N3-C4	-5.18	108.01	110.60
36	1	1057	A	C6-C5-N7	-5.18	128.67	132.30
36	1	2332	A	O5'-P-OP2	-5.18	101.03	105.70
36	1	2396	G	OP1-P-OP2	5.18	127.37	119.60
36	1	2751	G	C4-N9-C1'	-5.18	119.76	126.50
36	1	3320	A	C2-N3-C4	-5.18	108.01	110.60
38	4	36	G	C5-C6-O6	-5.18	125.49	128.60
1	6	1010	C	N1-C2-O2	-5.18	115.79	118.90
1	6	1442	U	C6-N1-C2	-5.18	117.89	121.00
36	5	373	A	N1-C2-N3	5.18	131.89	129.30
36	5	408	A	N9-C4-C5	5.18	107.87	105.80
36	5	893	C	N3-C4-N4	5.18	121.63	118.00
36	5	1063	G	N3-C4-N9	-5.18	122.89	126.00
36	5	1093	A	N1-C2-N3	5.18	131.89	129.30
36	5	1223	A	O5'-P-OP1	-5.18	101.04	105.70
36	5	1592	G	OP2-P-O3'	5.18	116.60	105.20
36	5	2329	C	N3-C4-N4	5.18	121.63	118.00
36	5	2741	C	N1-C2-O2	5.18	122.01	118.90
1	2	1191	U	C6-N1-C2	-5.18	117.89	121.00
1	2	1458	G	C8-N9-C1'	-5.18	120.27	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	308	A	N1-C6-N6	-5.18	115.49	118.60
36	1	1379	G	P-O3'-C3'	-5.18	113.48	119.70
36	1	1475	A	N9-C4-C5	-5.18	103.73	105.80
36	1	2321	A	OP1-P-OP2	-5.18	111.83	119.60
36	1	2720	G	N9-C4-C5	-5.18	103.33	105.40
37	3	93	C	N3-C2-O2	-5.18	118.27	121.90
38	4	141	C	C2-N1-C1'	5.18	124.50	118.80
1	6	64	U	N1-C2-O2	5.18	126.43	122.80
1	6	617	U	OP2-P-O3'	5.18	116.60	105.20
36	5	816	A	N7-C8-N9	-5.18	111.21	113.80
36	5	1347	U	N3-C4-C5	-5.18	111.49	114.60
36	5	3248	C	N3-C4-C5	-5.18	119.83	121.90
38	8	79	A	C4-C5-C6	-5.18	114.41	117.00
1	2	262	U	C4-C5-C6	5.18	122.81	119.70
1	2	1589	C	C5-C6-N1	-5.18	118.41	121.00
36	1	4	U	C4-C5-C6	-5.18	116.59	119.70
36	1	555	U	C2-N1-C1'	5.18	123.92	117.70
36	1	1095	U	O5'-P-OP1	5.18	116.92	110.70
36	1	1157	G	C6-C5-N7	-5.18	127.29	130.40
36	1	2157	G	C8-N9-C1'	-5.18	120.27	127.00
36	1	3031	G	N7-C8-N9	-5.18	110.51	113.10
37	3	65	G	C8-N9-C4	5.18	108.47	106.40
1	6	106	U	N3-C4-O4	-5.18	115.78	119.40
1	6	581	U	C2-N1-C1'	-5.18	111.48	117.70
1	6	1470	C	P-O3'-C3'	5.18	125.92	119.70
1	6	1510	U	N1-C2-N3	5.18	118.01	114.90
1	6	1603	U	C4-C5-C6	-5.18	116.59	119.70
36	5	939	U	C6-N1-C2	-5.18	117.89	121.00
36	5	1917	C	C4-C5-C6	-5.18	114.81	117.40
36	5	2101	C	N3-C2-O2	-5.18	118.27	121.90
36	5	2210	G	N7-C8-N9	5.18	115.69	113.10
36	5	2248	C	OP1-P-O3'	5.18	116.60	105.20
1	2	1291	G	N1-C6-O6	5.18	123.01	119.90
36	1	582	G	N3-C4-N9	-5.18	122.89	126.00
36	1	1166	G	N1-C2-N3	5.18	127.01	123.90
36	1	2130	G	N3-C2-N2	-5.18	116.28	119.90
1	6	357	G	C6-C5-N7	-5.18	127.29	130.40
36	5	1898	G	C4-C5-C6	-5.18	115.69	118.80
1	2	163	G	N3-C4-C5	-5.18	126.01	128.60
1	2	1136	U	C6-N1-C1'	5.18	128.45	121.20
1	2	1212	G	C5-C6-N1	-5.18	108.91	111.50
1	2	1521	G	C4-C5-N7	-5.18	108.73	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	311	C	N3-C4-C5	-5.18	119.83	121.90
36	1	514	G	OP1-P-OP2	-5.18	111.83	119.60
36	1	1335	C	O5'-P-OP1	5.18	116.91	110.70
36	1	1469	C	C4-C5-C6	5.18	119.99	117.40
36	1	1895	A	C5-N7-C8	5.18	106.49	103.90
36	1	2363	A	N7-C8-N9	5.18	116.39	113.80
36	1	2872	A	N3-C4-N9	5.18	131.54	127.40
44	L7	163	LEU	CA-CB-CG	-5.18	103.40	115.30
1	6	858	G	C4-C5-N7	5.18	112.87	110.80
1	6	877	G	N7-C8-N9	-5.18	110.51	113.10
1	6	1657	U	OP1-P-O3'	5.18	116.59	105.20
36	5	63	A	C5-C6-N1	-5.18	115.11	117.70
36	5	152	U	C5-C6-N1	-5.18	120.11	122.70
36	5	508	U	C4-C5-C6	5.18	122.81	119.70
36	5	1087	G	N3-C4-N9	-5.18	122.89	126.00
36	5	1096	U	C5-C6-N1	-5.18	120.11	122.70
36	5	1348	U	C5-C4-O4	-5.18	122.79	125.90
36	5	2260	U	OP2-P-O3'	5.18	116.59	105.20
36	5	2375	G	C2-N3-C4	-5.18	109.31	111.90
36	5	3210	A	C6-N1-C2	-5.18	115.49	118.60
36	5	3243	A	C8-N9-C4	5.18	107.87	105.80
36	5	3304	U	O5'-P-OP2	-5.18	101.04	105.70
38	8	87	G	N1-C2-N2	-5.18	111.54	116.20
38	8	107	G	N1-C2-N3	5.18	127.01	123.90
1	2	615	A	C4-C5-N7	-5.17	108.11	110.70
1	2	1426	C	N3-C4-N4	5.17	121.62	118.00
36	1	113	C	N1-C2-O2	-5.17	115.80	118.90
36	1	291	C	N1-C2-O2	-5.17	115.80	118.90
36	1	301	G	N7-C8-N9	5.17	115.69	113.10
36	1	335	G	C5-C6-O6	-5.17	125.50	128.60
36	1	869	G	N7-C8-N9	-5.17	110.51	113.10
36	1	961	C	N3-C2-O2	-5.17	118.28	121.90
36	1	1437	C	C6-N1-C1'	-5.17	114.59	120.80
36	1	2115	G	C4-C5-N7	5.17	112.87	110.80
36	1	2537	U	P-O3'-C3'	5.17	125.91	119.70
36	1	2589	G	N1-C2-N3	5.17	127.00	123.90
36	1	2936	A	C6-C5-N7	5.17	135.92	132.30
36	1	3071	U	C5-C6-N1	-5.17	120.11	122.70
37	3	95	A	N1-C6-N6	5.17	121.70	118.60
1	6	885	G	N1-C6-O6	5.17	123.00	119.90
36	5	45	A	N1-C2-N3	5.17	131.89	129.30
36	5	437	G	N9-C4-C5	5.17	107.47	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	692	A	C4-C5-N7	5.17	113.29	110.70
36	5	1011	A	C6-C5-N7	-5.17	128.68	132.30
36	5	1187	C	C5-C4-N4	-5.17	116.58	120.20
36	5	2661	G	N1-C2-N3	5.17	127.00	123.90
36	5	2684	C	O5'-P-OP1	5.17	116.91	110.70
36	5	2708	C	N3-C2-O2	5.17	125.52	121.90
36	5	2918	G	C5-N7-C8	5.17	106.89	104.30
36	5	2922	G	N1-C6-O6	-5.17	116.80	119.90
37	7	5	G	N7-C8-N9	-5.17	110.51	113.10
1	2	376	C	O5'-P-OP1	-5.17	101.04	105.70
36	1	1198	C	O4'-C1'-N1	5.17	112.34	108.20
36	1	1215	U	C5-C6-N1	-5.17	120.11	122.70
36	1	2642	A	C2-N3-C4	-5.17	108.01	110.60
36	1	3266	G	N9-C4-C5	5.17	107.47	105.40
36	5	1606	U	N1-C2-O2	-5.17	119.18	122.80
37	7	35	C	C2-N3-C4	-5.17	117.31	119.90
1	2	822	U	C6-N1-C2	-5.17	117.90	121.00
1	2	830	U	C6-N1-C1'	-5.17	113.96	121.20
1	2	1046	G	C8-N9-C4	-5.17	104.33	106.40
36	1	42	C	C4-C5-C6	5.17	119.99	117.40
36	1	971	G	N1-C2-N2	-5.17	111.55	116.20
36	1	1282	G	N1-C6-O6	5.17	123.00	119.90
36	1	1829	G	C4-C5-N7	-5.17	108.73	110.80
36	1	2348	A	C8-N9-C4	5.17	107.87	105.80
1	6	1476	C	N3-C4-N4	5.17	121.62	118.00
1	6	1624	C	N3-C4-C5	5.17	123.97	121.90
36	5	915	A	C4-C5-C6	5.17	119.59	117.00
36	5	952	A	C4-C5-C6	-5.17	114.41	117.00
36	5	1333	C	C6-N1-C1'	-5.17	114.59	120.80
36	5	1431	G	C8-N9-C4	5.17	108.47	106.40
36	5	1491	A	C4-C5-C6	5.17	119.58	117.00
36	5	2237	C	O5'-P-OP2	-5.17	101.05	105.70
36	5	2599	U	N3-C4-C5	-5.17	111.50	114.60
36	5	2717	U	C2-N3-C4	-5.17	123.90	127.00
36	5	3173	G	N3-C2-N2	5.17	123.52	119.90
37	7	52	G	OP1-P-O3'	5.17	116.58	105.20
36	1	104	G	C5-N7-C8	-5.17	101.72	104.30
36	1	1077	U	C4-C5-C6	5.17	122.80	119.70
1	6	7	G	C6-C5-N7	-5.17	127.30	130.40
1	6	474	A	N9-C4-C5	-5.17	103.73	105.80
1	6	811	A	C5-C6-N6	-5.17	119.56	123.70
1	6	967	A	N3-C4-N9	5.17	131.54	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1202	A	C4-C5-C6	5.17	119.58	117.00
36	5	1867	A	C5-C6-N6	5.17	127.84	123.70
36	5	2309	A	C5-C6-N1	-5.17	115.11	117.70
1	2	619	A	N7-C8-N9	-5.17	111.22	113.80
36	1	973	A	C8-N9-C1'	5.17	137.00	127.70
36	1	1171	G	N3-C2-N2	-5.17	116.28	119.90
36	1	1202	A	C4-C5-N7	5.17	113.28	110.70
36	1	1583	A	N9-C4-C5	5.17	107.87	105.80
36	1	1897	G	C5-N7-C8	-5.17	101.72	104.30
36	1	2985	C	N1-C2-N3	5.17	122.82	119.20
36	1	3177	G	C5-C6-O6	-5.17	125.50	128.60
1	6	576	G	C8-N9-C4	-5.17	104.33	106.40
1	6	973	A	OP1-P-O3'	5.17	116.57	105.20
22	d0	63	LEU	CA-CB-CG	-5.17	103.41	115.30
36	5	71	A	C6-C5-N7	5.17	135.92	132.30
36	5	353	G	C4-N9-C1'	-5.17	119.78	126.50
36	5	872	U	N3-C4-O4	5.17	123.02	119.40
36	5	885	U	C4-C5-C6	5.17	122.80	119.70
36	5	925	A	N1-C6-N6	5.17	121.70	118.60
36	5	1186	G	N7-C8-N9	5.17	115.69	113.10
36	5	1397	C	N3-C4-N4	5.17	121.62	118.00
36	5	2124	G	OP2-P-O3'	5.17	116.57	105.20
36	5	2313	A	N9-C4-C5	5.17	107.87	105.80
36	5	2597	U	N1-C2-O2	5.17	126.42	122.80
36	5	2851	A	OP2-P-O3'	5.17	116.57	105.20
36	5	3065	G	N3-C4-N9	-5.17	122.90	126.00
36	5	3280	U	C6-N1-C2	5.17	124.10	121.00
37	7	54	U	C5-C4-O4	5.17	129.00	125.90
1	2	6	G	C2-N3-C4	5.17	114.48	111.90
1	2	1561	U	N1-C2-O2	5.17	126.42	122.80
36	1	192	C	N3-C4-C5	-5.17	119.83	121.90
36	1	1340	G	C5-N7-C8	-5.17	101.72	104.30
36	1	1670	C	C2-N1-C1'	-5.17	113.12	118.80
36	1	2377	G	C5-C6-O6	5.17	131.70	128.60
36	1	2633	U	N1-C2-N3	5.17	118.00	114.90
36	1	2990	G	N3-C4-C5	-5.17	126.02	128.60
36	1	3226	A	C5-C6-N6	5.17	127.83	123.70
1	6	331	A	C6-N1-C2	-5.17	115.50	118.60
1	6	608	U	N1-C2-N3	5.17	118.00	114.90
1	6	1556	A	C4-C5-N7	5.17	113.28	110.70
36	5	216	G	C6-C5-N7	-5.17	127.30	130.40
36	5	323	A	P-O3'-C3'	-5.17	113.50	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	799	G	N1-C6-O6	5.17	123.00	119.90
36	5	814	U	OP1-P-OP2	-5.17	111.85	119.60
36	5	955	U	N3-C2-O2	5.17	125.82	122.20
36	5	2271	A	C5-C6-N6	-5.17	119.57	123.70
36	5	2831	G	C4-C5-C6	5.17	121.90	118.80
1	2	982	U	OP1-P-O3'	-5.17	93.84	105.20
36	1	149	U	C5-C6-N1	5.17	125.28	122.70
36	1	870	G	C6-C5-N7	5.17	133.50	130.40
36	1	882	A	N1-C2-N3	-5.17	126.72	129.30
36	1	1426	C	N3-C4-C5	-5.17	119.83	121.90
36	1	2522	G	N9-C1'-C2'	5.17	120.71	114.00
36	1	3158	G	N1-C6-O6	5.17	123.00	119.90
61	N5	78	ASP	CB-CG-OD1	5.17	122.95	118.30
1	6	96	G	N3-C4-C5	-5.17	126.02	128.60
1	6	1304	G	C6-C5-N7	5.17	133.50	130.40
1	6	1574	G	N1-C6-O6	5.17	123.00	119.90
36	5	1111	U	N3-C4-C5	5.17	117.70	114.60
36	5	1330	A	OP1-P-OP2	5.17	127.35	119.60
36	5	3255	U	N3-C4-C5	-5.17	111.50	114.60
37	7	65	G	N3-C4-N9	-5.17	122.90	126.00
37	7	75	G	O4'-C1'-N9	-5.17	104.07	108.20
1	2	555	A	N1-C2-N3	5.16	131.88	129.30
4	S2	235	LEU	CA-CB-CG	5.16	127.18	115.30
36	1	4	U	N3-C4-C5	5.16	117.70	114.60
36	1	105	C	O5'-P-OP2	-5.16	101.05	105.70
36	1	403	C	N3-C2-O2	-5.16	118.29	121.90
36	1	624	G	C5-C6-N1	-5.16	108.92	111.50
36	1	714	G	N3-C4-N9	5.16	129.10	126.00
36	1	856	G	C8-N9-C4	-5.16	104.33	106.40
36	1	1490	A	N9-C4-C5	5.16	107.86	105.80
36	1	1847	A	N1-C2-N3	5.16	131.88	129.30
36	1	2373	A	N3-C4-C5	5.16	130.41	126.80
36	1	2389	C	N1-C2-O2	-5.16	115.80	118.90
36	1	2649	A	C5-N7-C8	-5.16	101.32	103.90
1	6	297	U	C2-N1-C1'	5.16	123.89	117.70
36	5	290	G	C8-N9-C4	-5.16	104.33	106.40
36	5	774	G	C8-N9-C1'	-5.16	120.29	127.00
36	5	810	A	C5-N7-C8	-5.16	101.32	103.90
36	5	2193	U	O4'-C1'-N1	-5.16	104.07	108.20
36	5	2914	G	N1-C6-O6	5.16	123.00	119.90
36	5	3114	A	N1-C2-N3	-5.16	126.72	129.30
38	8	102	U	C6-N1-C1'	-5.16	113.97	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	255	U	C5-C6-N1	5.16	125.28	122.70
1	2	390	G	N1-C2-N2	5.16	120.85	116.20
1	2	1679	G	N1-C6-O6	-5.16	116.80	119.90
36	1	11	A	C2-N3-C4	-5.16	108.02	110.60
36	1	201	A	C8-N9-C4	5.16	107.86	105.80
36	1	634	C	O5'-P-OP1	-5.16	101.05	105.70
36	1	1690	C	OP1-P-O3'	5.16	116.56	105.20
36	1	1707	A	O5'-P-OP2	5.16	116.89	110.70
36	1	2280	A	OP2-P-O3'	5.16	116.56	105.20
36	5	406	G	C5-N7-C8	-5.16	101.72	104.30
36	5	1080	A	P-O3'-C3'	5.16	125.89	119.70
36	5	1204	A	OP1-P-O3'	-5.16	93.84	105.20
36	5	2611	U	C2-N3-C4	5.16	130.10	127.00
36	5	2727	A	C2-N3-C4	5.16	113.18	110.60
36	5	3367	C	N3-C4-N4	-5.16	114.39	118.00
1	2	620	A	N9-C4-C5	5.16	107.86	105.80
36	1	172	G	N3-C4-C5	-5.16	126.02	128.60
36	1	1134	G	C5-C6-O6	5.16	131.70	128.60
36	1	2249	G	C4-C5-N7	-5.16	108.74	110.80
36	1	2417	U	C4-C5-C6	5.16	122.80	119.70
37	3	7	G	C6-N1-C2	-5.16	122.00	125.10
38	4	15	G	O5'-P-OP1	-5.16	101.06	105.70
1	6	60	U	C5-C6-N1	5.16	125.28	122.70
1	6	147	A	C4-C5-N7	5.16	113.28	110.70
1	6	925	G	N7-C8-N9	5.16	115.68	113.10
1	6	1226	A	C2-N3-C4	5.16	113.18	110.60
1	6	1634	C	OP1-P-O3'	5.16	116.55	105.20
36	5	965	A	C6-N1-C2	-5.16	115.50	118.60
36	5	1317	A	N7-C8-N9	5.16	116.38	113.80
36	5	1420	C	C6-N1-C1'	5.16	126.99	120.80
36	5	2301	U	C2-N3-C4	5.16	130.10	127.00
36	5	2388	U	C4-C5-C6	5.16	122.80	119.70
36	5	2690	G	OP2-P-O3'	5.16	116.56	105.20
36	5	3049	A	C6-C5-N7	-5.16	128.69	132.30
36	5	3102	G	N1-C6-O6	5.16	123.00	119.90
36	5	3315	G	C4-N9-C1'	5.16	133.21	126.50
1	2	937	C	C5-C6-N1	5.16	123.58	121.00
1	2	1235	C	O5'-P-OP1	-5.16	101.06	105.70
1	2	1634	C	C6-N1-C2	-5.16	118.24	120.30
1	2	1757	G	OP2-P-O3'	5.16	116.55	105.20
35	SM	134	ASP	CB-CG-OD2	5.16	122.94	118.30
36	1	37	U	C2-N1-C1'	-5.16	111.51	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	99	A	C4-N9-C1'	-5.16	117.02	126.30
36	1	720	A	C6-N1-C2	-5.16	115.50	118.60
36	1	760	G	N3-C4-C5	5.16	131.18	128.60
36	1	1461	A	O5'-P-OP2	-5.16	101.06	105.70
36	1	2409	G	C5-C6-O6	-5.16	125.50	128.60
38	4	15	G	C6-N1-C2	-5.16	122.00	125.10
49	M3	7	LEU	C-N-CD	5.16	139.23	128.40
1	6	109	G	N3-C4-C5	5.16	131.18	128.60
1	6	610	G	C6-N1-C2	-5.16	122.00	125.10
1	6	1746	A	N1-C6-N6	-5.16	115.50	118.60
36	5	707	U	C2-N3-C4	5.16	130.09	127.00
36	5	1686	U	C2-N1-C1'	5.16	123.89	117.70
36	5	1778	G	N7-C8-N9	-5.16	110.52	113.10
36	5	3323	A	C5-C6-N1	5.16	120.28	117.70
36	1	14	U	C2-N1-C1'	5.16	123.89	117.70
36	1	996	A	C2-N3-C4	5.16	113.18	110.60
1	6	903	U	N1-C2-O2	-5.16	119.19	122.80
1	6	958	U	C5-C6-N1	-5.16	120.12	122.70
1	6	1361	U	C6-N1-C2	-5.16	117.91	121.00
1	6	1745	G	N3-C4-N9	5.16	129.09	126.00
36	5	2391	G	C5-C6-N1	5.16	114.08	111.50
36	5	2415	C	N3-C4-N4	5.16	121.61	118.00
1	2	1342	C	C6-N1-C2	-5.16	118.24	120.30
1	2	1431	C	O4'-C1'-N1	-5.16	104.08	108.20
36	1	195	U	OP1-P-O3'	5.16	116.54	105.20
36	1	366	A	C6-N1-C2	-5.16	115.51	118.60
36	1	807	A	C5-C6-N6	-5.16	119.58	123.70
36	1	1196	C	OP1-P-O3'	5.16	116.54	105.20
36	1	1435	A	P-O3'-C3'	5.16	125.89	119.70
36	1	2396	G	N3-C4-N9	-5.16	122.91	126.00
36	1	2620	G	OP1-P-O3'	5.16	116.54	105.20
36	1	2628	A	C6-C5-N7	-5.16	128.69	132.30
36	1	2754	G	C8-N9-C4	5.16	108.46	106.40
36	1	2968	G	C5-C6-N1	5.16	114.08	111.50
36	1	3054	U	O4'-C1'-N1	5.16	112.32	108.20
37	3	17	A	C6-N1-C2	-5.16	115.51	118.60
1	6	43	A	N3-C4-N9	5.16	131.52	127.40
1	6	296	U	N3-C2-O2	-5.16	118.59	122.20
1	6	756	A	N7-C8-N9	5.16	116.38	113.80
36	5	969	C	OP1-P-O3'	5.16	116.54	105.20
36	5	1092	C	O4'-C1'-N1	5.16	112.32	108.20
36	5	2119	A	C4-N9-C1'	5.16	135.58	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2255	A	C5-C6-N6	-5.16	119.58	123.70
36	5	2364	G	C4-C5-N7	5.16	112.86	110.80
36	5	2643	A	O5'-P-OP1	-5.16	101.06	105.70
36	5	2652	U	OP1-P-OP2	5.16	127.33	119.60
36	5	2664	C	C2-N3-C4	-5.16	117.32	119.90
36	5	2719	U	C2-N1-C1'	-5.16	111.51	117.70
36	5	3275	U	N1-C2-N3	-5.16	111.81	114.90
37	7	24	A	C5-C6-N1	5.16	120.28	117.70
37	7	99	G	C5-N7-C8	5.16	106.88	104.30
1	2	77	U	C5-C4-O4	-5.15	122.81	125.90
36	1	905	U	C2-N1-C1'	-5.15	111.52	117.70
36	1	1213	G	C6-C5-N7	-5.15	127.31	130.40
36	1	1895	A	N7-C8-N9	-5.15	111.22	113.80
36	1	2295	A	C5-C6-N6	5.15	127.82	123.70
37	3	41	G	C8-N9-C1'	-5.15	120.30	127.00
36	5	86	G	C2-N3-C4	5.15	114.48	111.90
36	5	183	G	C8-N9-C4	-5.15	104.34	106.40
36	5	1194	G	C8-N9-C4	-5.15	104.34	106.40
36	5	2899	C	C5-C6-N1	-5.15	118.42	121.00
1	2	1206	U	N3-C2-O2	-5.15	118.59	122.20
36	1	196	G	C5-N7-C8	5.15	106.88	104.30
36	1	295	A	C8-N9-C4	-5.15	103.74	105.80
36	1	1001	G	C5-C6-O6	-5.15	125.51	128.60
36	1	1173	U	C5-C6-N1	-5.15	120.12	122.70
36	1	1375	G	C6-N1-C2	-5.15	122.01	125.10
36	1	1795	U	C5-C6-N1	-5.15	120.12	122.70
36	1	2110	G	C4-N9-C1'	5.15	133.20	126.50
36	1	2713	U	N3-C4-O4	5.15	123.01	119.40
36	1	3318	G	C3'-C2'-C1'	5.15	105.62	101.50
1	6	1777	G	OP2-P-O3'	5.15	116.54	105.20
36	5	326	U	C6-N1-C2	-5.15	117.91	121.00
36	5	432	G	N3-C2-N2	-5.15	116.29	119.90
36	5	1003	A	C6-C5-N7	-5.15	128.69	132.30
36	5	1193	A	C4-C5-C6	5.15	119.58	117.00
36	5	1348	U	O4'-C1'-N1	5.15	112.32	108.20
36	5	2159	U	OP1-P-O3'	5.15	116.53	105.20
36	5	2306	C	OP2-P-O3'	5.15	116.53	105.20
36	5	3298	C	C5-C4-N4	5.15	123.81	120.20
1	2	47	A	C6-N1-C2	-5.15	115.51	118.60
1	2	1517	U	N3-C4-O4	5.15	123.00	119.40
36	1	59	G	N1-C6-O6	5.15	122.99	119.90
36	1	223	U	C2-N1-C1'	-5.15	111.52	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	499	G	N1-C2-N2	5.15	120.83	116.20
36	1	669	U	C5-C6-N1	-5.15	120.12	122.70
36	1	902	G	C5-N7-C8	-5.15	101.72	104.30
36	1	1010	G	N1-C6-O6	5.15	122.99	119.90
36	1	1082	U	C6-N1-C2	-5.15	117.91	121.00
36	1	1334	U	N3-C4-C5	-5.15	111.51	114.60
36	1	1369	A	C4-C5-C6	5.15	119.58	117.00
36	1	1546	A	C5-N7-C8	-5.15	101.33	103.90
36	1	1752	A	C2-N3-C4	-5.15	108.03	110.60
36	1	1913	A	N1-C6-N6	5.15	121.69	118.60
36	1	2364	G	N1-C6-O6	-5.15	116.81	119.90
36	1	2805	G	C2-N3-C4	5.15	114.47	111.90
36	1	2830	G	N7-C8-N9	-5.15	110.52	113.10
36	1	3196	U	C5-C4-O4	5.15	128.99	125.90
38	4	119	C	N3-C2-O2	5.15	125.50	121.90
1	6	110	U	O5'-P-OP1	-5.15	101.06	105.70
1	6	516	G	C8-N9-C4	-5.15	104.34	106.40
36	5	875	G	N3-C4-N9	-5.15	122.91	126.00
36	5	906	A	OP1-P-OP2	5.15	127.33	119.60
36	5	1060	U	N3-C2-O2	-5.15	118.59	122.20
36	5	2353	G	P-O3'-C3'	-5.15	113.52	119.70
36	5	2671	A	C2-N3-C4	-5.15	108.03	110.60
36	5	2813	A	N1-C2-N3	5.15	131.88	129.30
37	7	65	G	N1-C2-N2	5.15	120.83	116.20
38	8	136	G	N7-C8-N9	-5.15	110.52	113.10
1	2	561	G	C5-C6-O6	-5.15	125.51	128.60
1	2	904	G	C8-N9-C1'	-5.15	120.31	127.00
4	S2	58	LEU	CA-CB-CG	5.15	127.14	115.30
36	1	337	G	C2-N3-C4	5.15	114.47	111.90
36	1	995	U	N1-C2-N3	5.15	117.99	114.90
36	1	1076	C	C5-C6-N1	-5.15	118.43	121.00
1	6	254	A	O5'-P-OP1	5.15	116.88	110.70
1	6	334	G	N9-C4-C5	5.15	107.46	105.40
1	6	1321	A	OP1-P-O3'	5.15	116.53	105.20
36	5	921	A	N1-C6-N6	-5.15	115.51	118.60
36	5	1582	C	O4'-C1'-N1	5.15	112.32	108.20
36	5	2914	G	OP1-P-OP2	5.15	127.32	119.60
36	5	3089	C	C2-N3-C4	5.15	122.47	119.90
1	2	1052	U	C2-N1-C1'	5.15	123.88	117.70
36	1	1114	U	N3-C4-C5	-5.15	111.51	114.60
36	1	1144	U	C5-C6-N1	5.15	125.27	122.70
36	1	1151	U	C2-N1-C1'	5.15	123.88	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1833	G	C4-C5-N7	-5.15	108.74	110.80
36	1	3268	A	O4'-C1'-N9	-5.15	104.08	108.20
37	3	52	G	N7-C8-N9	5.15	115.67	113.10
1	6	1428	G	N3-C4-N9	-5.15	122.91	126.00
1	6	1456	C	N1-C2-N3	5.15	122.80	119.20
36	5	769	G	C5-C6-O6	-5.15	125.51	128.60
36	5	886	C	C4-C5-C6	-5.15	114.83	117.40
36	5	1124	U	O4'-C1'-N1	5.15	112.32	108.20
36	5	1192	C	C6-N1-C2	-5.15	118.24	120.30
36	5	1300	G	N9-C4-C5	-5.15	103.34	105.40
36	5	1916	U	N1-C2-O2	5.15	126.40	122.80
36	5	2291	A	C6-N1-C2	5.15	121.69	118.60
36	5	2409	G	N9-C4-C5	-5.15	103.34	105.40
36	5	2670	G	C5-C6-O6	-5.15	125.51	128.60
36	5	2758	A	C8-N9-C4	5.15	107.86	105.80
36	5	2866	U	N1-C2-O2	5.15	126.40	122.80
36	1	591	G	C4-N9-C1'	5.15	133.19	126.50
36	1	810	A	C5-C6-N6	5.15	127.82	123.70
36	1	1360	C	N3-C2-O2	5.15	125.50	121.90
36	1	3009	G	C5-C6-O6	-5.15	125.51	128.60
36	5	916	G	C5-C6-N1	5.15	114.07	111.50
36	5	1095	U	N1-C2-O2	5.15	126.40	122.80
36	5	1734	G	N7-C8-N9	-5.15	110.53	113.10
36	5	3095	U	N1-C2-N3	5.15	117.99	114.90
36	5	3289	G	C3'-C2'-C1'	-5.15	97.38	101.50
1	2	1081	A	O4'-C1'-N9	5.14	112.31	108.20
1	2	1195	C	C4-C5-C6	5.14	119.97	117.40
1	2	1486	G	C4-C5-C6	5.14	121.89	118.80
1	2	1555	A	C8-N9-C4	-5.14	103.74	105.80
36	1	891	G	N3-C4-C5	5.14	131.17	128.60
36	1	931	C	C2-N3-C4	-5.14	117.33	119.90
36	1	936	A	N3-C4-N9	-5.14	123.28	127.40
36	1	1475	A	C5-C6-N6	-5.14	119.58	123.70
36	1	2328	U	N3-C4-O4	-5.14	115.80	119.40
36	1	2930	A	C4-C5-N7	5.14	113.27	110.70
36	1	3005	A	N9-C4-C5	5.14	107.86	105.80
36	1	3289	G	N7-C8-N9	5.14	115.67	113.10
1	6	619	A	N1-C2-N3	-5.14	126.73	129.30
36	5	41	G	N3-C4-N9	-5.14	122.91	126.00
36	5	186	U	N1-C2-O2	5.14	126.40	122.80
36	5	588	G	C5-C6-O6	-5.14	125.51	128.60
36	5	974	G	C4-C5-C6	5.14	121.89	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1215	U	C5-C4-O4	-5.14	122.81	125.90
36	5	1733	G	C8-N9-C1'	-5.14	120.31	127.00
36	5	2278	C	C4-C5-C6	-5.14	114.83	117.40
37	7	95	A	N1-C2-N3	5.14	131.87	129.30
1	2	993	A	N7-C8-N9	5.14	116.37	113.80
1	2	1144	U	C5-C4-O4	-5.14	122.81	125.90
36	1	692	A	C8-N9-C4	-5.14	103.74	105.80
36	1	827	A	C5-C6-N1	5.14	120.27	117.70
36	1	2517	U	N1-C2-O2	5.14	126.40	122.80
36	1	2745	G	O4'-C1'-N9	5.14	112.31	108.20
37	3	118	A	O5'-P-OP1	5.14	116.87	110.70
1	6	316	A	OP1-P-OP2	5.14	127.31	119.60
36	5	312	C	C5-C4-N4	5.14	123.80	120.20
36	5	510	G	C5-C6-N1	5.14	114.07	111.50
36	5	635	G	O5'-P-OP2	-5.14	101.07	105.70
36	5	960	U	C4-C5-C6	5.14	122.78	119.70
36	5	1431	G	OP2-P-O3'	5.14	116.52	105.20
36	5	1473	G	C6-C5-N7	-5.14	127.31	130.40
36	5	2678	A	C4-C5-N7	-5.14	108.13	110.70
36	5	2765	C	C2-N1-C1'	5.14	124.46	118.80
36	5	2788	C	C4-C5-C6	5.14	119.97	117.40
37	7	82	G	N3-C4-N9	5.14	129.09	126.00
38	8	13	A	C6-N1-C2	5.14	121.69	118.60
1	2	628	G	C6-N1-C2	5.14	128.19	125.10
36	1	893	C	C2-N1-C1'	5.14	124.45	118.80
36	1	969	C	N3-C4-C5	-5.14	119.84	121.90
36	1	1779	C	N3-C2-O2	-5.14	118.30	121.90
36	1	2117	A	C5-C6-N6	-5.14	119.59	123.70
36	5	76	G	N3-C4-C5	-5.14	126.03	128.60
36	5	109	A	C2-N3-C4	-5.14	108.03	110.60
36	5	707	U	OP2-P-O3'	5.14	116.51	105.20
36	5	3365	U	OP2-P-O3'	5.14	116.51	105.20
37	7	109	G	C8-N9-C4	5.14	108.46	106.40
1	2	261	U	C6-N1-C1'	-5.14	114.01	121.20
1	2	1291	G	C2-N3-C4	-5.14	109.33	111.90
36	1	18	G	N3-C4-N9	-5.14	122.92	126.00
36	1	216	G	N1-C6-O6	5.14	122.98	119.90
36	1	1145	G	C8-N9-C4	-5.14	104.34	106.40
36	1	1428	A	N3-C4-C5	5.14	130.40	126.80
36	1	1922	A	C5-C6-N1	5.14	120.27	117.70
36	1	2274	U	C2-N3-C4	-5.14	123.92	127.00
36	1	2558	U	C5-C6-N1	-5.14	120.13	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2698	G	C8-N9-C4	5.14	108.46	106.40
36	1	2754	G	C4-C5-N7	5.14	112.86	110.80
36	1	2990	G	C6-N1-C2	-5.14	122.02	125.10
38	4	46	G	N9-C4-C5	-5.14	103.34	105.40
1	6	1780	G	C5-C6-O6	-5.14	125.52	128.60
36	5	517	G	C5-C6-N1	-5.14	108.93	111.50
36	5	632	G	C6-C5-N7	-5.14	127.32	130.40
36	5	794	U	C6-N1-C2	-5.14	117.92	121.00
36	5	864	G	OP2-P-O3'	5.14	116.51	105.20
36	5	980	A	C4-C5-C6	-5.14	114.43	117.00
36	5	1208	U	N1-C2-N3	5.14	117.98	114.90
36	5	1520	G	C6-C5-N7	-5.14	127.32	130.40
36	5	1543	G	C8-N9-C4	-5.14	104.34	106.40
36	5	2165	G	C4-N9-C1'	5.14	133.18	126.50
36	5	2334	U	C5-C6-N1	-5.14	120.13	122.70
36	5	2926	A	N1-C6-N6	5.14	121.68	118.60
36	5	2980	U	C2-N1-C1'	-5.14	111.53	117.70
36	5	3110	C	N3-C4-C5	5.14	123.96	121.90
36	5	3176	G	C6-C5-N7	-5.14	127.32	130.40
36	5	3367	C	N3-C2-O2	5.14	125.50	121.90
38	8	61	A	C5-C6-N6	5.14	127.81	123.70
57	n1	152	ALA	C-N-CD	5.14	139.19	128.40
1	2	339	C	OP2-P-O3'	5.14	116.50	105.20
1	2	934	C	C6-N1-C1'	-5.14	114.63	120.80
1	2	1130	G	OP2-P-O3'	5.14	116.50	105.20
36	1	587	U	N3-C4-O4	5.14	123.00	119.40
36	1	1929	G	O5'-P-OP2	-5.14	101.08	105.70
36	1	3094	A	O5'-P-OP2	5.14	116.87	110.70
1	6	157	A	C2-N3-C4	-5.14	108.03	110.60
1	6	361	C	C5-C6-N1	-5.14	118.43	121.00
1	6	788	A	C5-N7-C8	5.14	106.47	103.90
1	6	1132	A	C5-N7-C8	5.14	106.47	103.90
1	6	1176	G	C8-N9-C4	5.14	108.45	106.40
36	5	1161	G	N1-C6-O6	-5.14	116.82	119.90
36	5	1929	G	N9-C4-C5	5.14	107.45	105.40
36	5	2281	A	C8-N9-C4	5.14	107.86	105.80
1	2	349	U	C6-N1-C2	5.14	124.08	121.00
1	2	1605	G	C8-N9-C4	-5.14	104.35	106.40
1	2	1748	G	N1-C2-N3	5.14	126.98	123.90
36	1	440	A	C8-N9-C4	-5.14	103.75	105.80
36	1	595	G	O5'-P-OP2	5.14	116.86	110.70
36	1	1048	A	C5-C6-N1	5.14	120.27	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1306	G	OP2-P-O3'	5.14	116.50	105.20
36	1	1330	A	C8-N9-C4	5.14	107.85	105.80
36	1	1578	C	C6-N1-C2	-5.14	118.25	120.30
36	1	2520	A	N7-C8-N9	5.14	116.37	113.80
36	1	2658	G	N9-C4-C5	-5.14	103.35	105.40
36	1	3186	A	C4-C5-N7	-5.14	108.13	110.70
1	6	337	G	N3-C2-N2	5.14	123.50	119.90
1	6	456	A	O4'-C1'-N9	-5.14	104.09	108.20
1	6	1201	G	C8-N9-C1'	5.14	133.68	127.00
1	6	1733	C	C5-C6-N1	-5.14	118.43	121.00
36	5	70	A	C4-N9-C1'	5.14	135.54	126.30
36	5	191	U	N3-C2-O2	5.14	125.80	122.20
36	5	1119	C	C2-N3-C4	-5.14	117.33	119.90
36	5	1173	U	C5-C4-O4	5.14	128.98	125.90
36	5	2729	U	C2-N1-C1'	-5.14	111.54	117.70
36	5	2959	C	N1-C2-N3	5.14	122.80	119.20
36	5	2990	G	N3-C4-C5	-5.14	126.03	128.60
36	5	3047	U	N3-C4-O4	5.14	123.00	119.40
36	5	3343	G	N1-C2-N3	5.14	126.98	123.90
37	7	107	C	OP2-P-O3'	5.14	116.50	105.20
78	q2	97	LYS	CD-CE-NZ	5.14	123.51	111.70
1	2	458	G	N3-C2-N2	-5.13	116.31	119.90
1	2	1386	G	C4-N9-C1'	-5.13	119.83	126.50
36	1	65	A	C5-C6-N6	-5.13	119.59	123.70
36	1	297	G	C6-N1-C2	-5.13	122.02	125.10
36	1	674	G	N3-C2-N2	-5.13	116.31	119.90
36	1	1317	A	C4-C5-N7	5.13	113.27	110.70
36	1	1328	C	O5'-P-OP1	-5.13	101.08	105.70
36	1	1390	A	N1-C6-N6	5.13	121.68	118.60
36	1	1469	C	C5-C6-N1	-5.13	118.43	121.00
36	1	1913	A	C5-N7-C8	-5.13	101.33	103.90
36	1	2593	A	P-O3'-C3'	5.13	125.86	119.70
36	1	2787	G	C5-N7-C8	-5.13	101.73	104.30
36	1	2863	G	O5'-P-OP1	5.13	116.86	110.70
36	1	2883	U	C2-N1-C1'	5.13	123.86	117.70
36	1	2943	G	C4-C5-C6	5.13	121.88	118.80
36	1	3125	U	N3-C4-O4	-5.13	115.81	119.40
36	1	3215	A	C6-N1-C2	-5.13	115.52	118.60
1	6	580	A	C5-C6-N1	5.13	120.27	117.70
1	6	860	U	N1-C2-O2	-5.13	119.20	122.80
36	5	233	C	C6-N1-C1'	5.13	126.96	120.80
36	5	760	G	N3-C4-C5	5.13	131.17	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1146	C	C6-N1-C2	5.13	122.35	120.30
36	5	1587	A	C8-N9-C4	5.13	107.85	105.80
36	5	1782	U	C2-N1-C1'	5.13	123.86	117.70
36	5	2236	G	N3-C4-N9	5.13	129.08	126.00
36	5	3229	G	N9-C4-C5	-5.13	103.35	105.40
36	5	3330	A	C4-N9-C1'	5.13	135.54	126.30
1	2	610	G	C5-C6-O6	-5.13	125.52	128.60
1	2	1299	G	C4-C5-C6	5.13	121.88	118.80
36	1	229	G	N3-C2-N2	-5.13	116.31	119.90
36	1	707	U	N3-C2-O2	-5.13	118.61	122.20
36	1	1288	U	C4-C5-C6	5.13	122.78	119.70
36	1	2638	C	N1-C2-O2	5.13	121.98	118.90
1	6	270	C	C5-C6-N1	5.13	123.57	121.00
36	5	3214	U	C2-N3-C4	-5.13	123.92	127.00
1	2	315	A	N1-C2-N3	-5.13	126.73	129.30
1	2	328	A	C8-N9-C4	-5.13	103.75	105.80
1	2	1639	C	N3-C4-N4	-5.13	114.41	118.00
1	2	1772	C	N3-C4-C5	5.13	123.95	121.90
36	1	357	A	C8-N9-C4	-5.13	103.75	105.80
36	1	947	G	N1-C2-N3	5.13	126.98	123.90
36	1	1443	G	OP2-P-O3'	-5.13	93.91	105.20
36	1	2154	U	C5-C4-O4	-5.13	122.82	125.90
36	1	2155	G	N1-C2-N2	-5.13	111.58	116.20
36	1	2934	A	C6-C5-N7	-5.13	128.71	132.30
36	1	2942	C	N1-C2-O2	-5.13	115.82	118.90
36	1	2976	A	OP1-P-OP2	-5.13	111.90	119.60
36	1	3259	U	C2-N1-C1'	5.13	123.86	117.70
36	1	3353	G	P-O3'-C3'	5.13	125.86	119.70
38	4	8	C	C5-C4-N4	-5.13	116.61	120.20
48	M1	12	LEU	CA-CB-CG	5.13	127.10	115.30
1	6	5	U	OP2-P-O3'	5.13	116.49	105.20
1	6	112	A	C4-C5-N7	5.13	113.27	110.70
1	6	327	U	O5'-P-OP2	-5.13	101.08	105.70
1	6	613	G	C8-N9-C4	-5.13	104.35	106.40
1	6	759	U	C6-N1-C2	-5.13	117.92	121.00
36	5	507	U	O4'-C1'-N1	5.13	112.31	108.20
36	5	582	G	N9-C4-C5	5.13	107.45	105.40
36	5	1523	U	C2-N1-C1'	5.13	123.86	117.70
36	5	1847	A	C8-N9-C4	5.13	107.85	105.80
36	5	2806	U	N3-C4-C5	5.13	117.68	114.60
37	7	120	C	C6-N1-C2	5.13	122.35	120.30
38	8	91	C	C6-N1-C2	-5.13	118.25	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1037	C	C5-C4-N4	-5.13	116.61	120.20
36	1	959	C	N3-C2-O2	5.13	125.49	121.90
1	6	149	C	C2-N1-C1'	-5.13	113.16	118.80
1	6	897	C	C2-N1-C1'	-5.13	113.16	118.80
36	5	230	U	N1-C2-N3	5.13	117.98	114.90
36	5	705	A	N1-C6-N6	-5.13	115.52	118.60
36	5	1878	G	N1-C2-N3	-5.13	120.82	123.90
36	5	3009	G	C2-N3-C4	-5.13	109.33	111.90
36	5	3052	G	C5'-C4'-O4'	5.13	115.26	109.10
36	5	3380	U	C2-N3-C4	5.13	130.08	127.00
36	1	213	A	C5-C6-N6	-5.13	119.60	123.70
36	1	341	G	C8-N9-C4	-5.13	104.35	106.40
36	1	432	G	C4-C5-C6	5.13	121.88	118.80
36	1	968	G	C6-N1-C2	-5.13	122.02	125.10
36	1	1112	A	C8-N9-C4	-5.13	103.75	105.80
36	1	1357	G	C4-C5-C6	5.13	121.88	118.80
36	1	1422	G	C5-C6-N1	-5.13	108.94	111.50
36	1	1550	C	N3-C4-C5	-5.13	119.85	121.90
36	1	2239	G	N1-C2-N2	-5.13	111.58	116.20
36	1	2610	G	C4-C5-C6	5.13	121.88	118.80
1	6	480	G	N3-C4-N9	5.13	129.08	126.00
1	6	800	U	C6-N1-C2	-5.13	117.92	121.00
1	6	824	G	C8-N9-C4	-5.13	104.35	106.40
1	6	1280	C	C2-N3-C4	5.13	122.46	119.90
1	6	1407	U	C5-C6-N1	-5.13	120.14	122.70
1	6	1513	G	N3-C4-C5	-5.13	126.04	128.60
36	5	210	U	C2-N3-C4	-5.13	123.92	127.00
36	5	932	U	N3-C4-O4	-5.13	115.81	119.40
36	5	1058	U	OP2-P-O3'	5.13	116.48	105.20
36	5	1081	U	N1-C2-O2	5.13	126.39	122.80
36	5	1198	C	OP1-P-O3'	5.13	116.48	105.20
36	5	1788	C	N3-C2-O2	5.13	125.49	121.90
36	5	2260	U	N3-C2-O2	-5.13	118.61	122.20
36	5	2518	C	N3-C4-N4	5.13	121.59	118.00
36	5	2933	A	O5'-P-OP1	-5.13	101.08	105.70
36	5	3254	G	N1-C2-N3	5.13	126.98	123.90
37	7	32	U	N3-C4-O4	5.13	122.99	119.40
1	2	458	G	C8-N9-C4	5.13	108.45	106.40
36	1	15	C	OP1-P-OP2	-5.13	111.91	119.60
36	1	297	G	N3-C4-N9	5.13	129.08	126.00
36	1	422	A	N1-C2-N3	5.13	131.86	129.30
36	1	741	U	N3-C4-C5	-5.13	111.52	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	944	C	C4-C5-C6	5.13	119.96	117.40
36	1	963	G	C6-C5-N7	-5.13	127.32	130.40
36	1	1404	G	OP1-P-O3'	5.13	116.48	105.20
36	1	1446	A	OP2-P-O3'	5.13	116.48	105.20
36	1	2995	A	C2-N3-C4	-5.13	108.04	110.60
36	1	3086	A	C5-N7-C8	5.13	106.46	103.90
36	1	3099	C	C5-C4-N4	-5.13	116.61	120.20
36	1	3105	U	N3-C4-O4	-5.13	115.81	119.40
37	3	112	G	C6-C5-N7	5.13	133.48	130.40
38	4	25	G	C4-C5-N7	-5.13	108.75	110.80
1	6	595	G	C5-N7-C8	-5.13	101.74	104.30
1	6	1387	G	C5-C6-O6	5.13	131.68	128.60
1	6	1606	C	O5'-P-OP2	-5.13	101.09	105.70
36	5	33	G	C4-C5-N7	-5.13	108.75	110.80
36	5	101	G	C4-C5-N7	5.13	112.85	110.80
36	5	790	U	C6-N1-C2	5.13	124.08	121.00
36	5	1117	G	OP2-P-O3'	5.13	116.48	105.20
36	5	1225	A	C6-N1-C2	-5.13	115.52	118.60
36	5	1344	G	OP2-P-O3'	5.13	116.48	105.20
36	5	1376	C	C5-C4-N4	-5.13	116.61	120.20
36	5	1586	G	C5-C6-O6	5.13	131.68	128.60
36	5	3035	A	N1-C6-N6	5.13	121.67	118.60
36	5	3205	G	N3-C2-N2	5.13	123.49	119.90
36	1	1163	A	C2-N3-C4	-5.12	108.04	110.60
36	1	1712	G	C8-N9-C4	-5.12	104.35	106.40
36	1	2356	A	N1-C2-N3	5.12	131.86	129.30
36	1	2943	G	C4-N9-C1'	5.12	133.16	126.50
78	Q2	8	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	6	312	A	N1-C6-N6	-5.12	115.53	118.60
1	6	1383	G	C4-N9-C1'	5.12	133.16	126.50
36	5	684	G	N9-C1'-C2'	-5.12	106.36	112.00
36	5	878	G	N7-C8-N9	5.12	115.66	113.10
36	5	1299	U	N3-C4-O4	5.12	122.99	119.40
36	5	1753	G	C8-N9-C4	5.12	108.45	106.40
36	5	2608	G	C5-C6-O6	-5.12	125.53	128.60
48	m1	12	LEU	CA-CB-CG	5.12	127.09	115.30
1	2	1467	C	N3-C2-O2	-5.12	118.31	121.90
36	1	32	U	C2-N3-C4	-5.12	123.93	127.00
36	1	389	A	C6-C5-N7	-5.12	128.71	132.30
36	1	670	C	O5'-P-OP2	5.12	116.85	110.70
36	1	813	G	N1-C6-O6	5.12	122.97	119.90
36	1	2395	G	O4'-C1'-N9	-5.12	104.10	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	324	U	C2-N1-C1'	-5.12	111.55	117.70
1	6	607	G	C4-C5-C6	5.12	121.87	118.80
1	6	742	U	C2-N1-C1'	5.12	123.85	117.70
36	5	25	U	C4-C5-C6	5.12	122.77	119.70
36	5	54	C	C4-C5-C6	5.12	119.96	117.40
36	5	524	U	N3-C4-C5	5.12	117.67	114.60
36	5	2372	A	C8-N9-C1'	-5.12	118.48	127.70
36	5	2614	G	C8-N9-C1'	-5.12	120.34	127.00
36	5	2838	A	C5-C6-N1	5.12	120.26	117.70
36	5	2928	C	C5-C4-N4	-5.12	116.61	120.20
36	5	3123	A	N1-C6-N6	5.12	121.67	118.60
37	7	111	U	C2-N1-C1'	5.12	123.85	117.70
1	2	1076	A	C2-N3-C4	-5.12	108.04	110.60
36	1	1345	G	C4-N9-C1'	5.12	133.16	126.50
36	1	1501	U	C6-N1-C1'	-5.12	114.03	121.20
36	1	1599	G	N1-C2-N3	5.12	126.97	123.90
36	1	2847	A	C8-N9-C4	5.12	107.85	105.80
36	1	2978	U	C4-C5-C6	5.12	122.77	119.70
36	1	3129	A	C2-N3-C4	-5.12	108.04	110.60
1	6	401	A	OP2-P-O3'	5.12	116.47	105.20
1	6	1283	U	N1-C2-N3	5.12	117.97	114.90
1	6	1457	C	O5'-P-OP2	-5.12	101.09	105.70
1	6	1518	C	N3-C2-O2	-5.12	118.32	121.90
1	6	1704	U	C6-N1-C1'	-5.12	114.03	121.20
36	5	432	G	OP2-P-O3'	5.12	116.47	105.20
36	5	686	G	O4'-C1'-N9	5.12	112.30	108.20
36	5	688	G	C4-N9-C1'	5.12	133.16	126.50
36	5	1492	G	N1-C2-N3	5.12	126.97	123.90
36	5	1664	G	N1-C6-O6	-5.12	116.83	119.90
36	5	2195	C	C5-C4-N4	5.12	123.78	120.20
36	5	2284	C	OP1-P-O3'	5.12	116.47	105.20
36	5	3140	G	C8-N9-C4	5.12	108.45	106.40
37	7	8	G	N3-C4-C5	-5.12	126.04	128.60
36	1	1434	G	N9-C4-C5	5.12	107.45	105.40
36	1	3126	C	C5-C6-N1	-5.12	118.44	121.00
1	6	646	C	C5-C6-N1	5.12	123.56	121.00
36	5	957	C	C4-C5-C6	5.12	119.96	117.40
36	5	1226	G	C4-C5-N7	-5.12	108.75	110.80
36	5	1325	U	C6-N1-C2	5.12	124.07	121.00
36	5	1415	U	N1-C2-O2	-5.12	119.22	122.80
36	5	2171	G	P-O3'-C3'	-5.12	113.56	119.70
36	5	3306	U	C2-N1-C1'	5.12	123.84	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3320	A	OP1-P-OP2	5.12	127.28	119.60
38	8	90	U	C2-N1-C1'	5.12	123.84	117.70
1	2	950	C	N3-C4-N4	5.12	121.58	118.00
1	2	1131	A	OP2-P-O3'	5.12	116.46	105.20
1	2	1756	A	C6-C5-N7	-5.12	128.72	132.30
36	1	383	G	N3-C2-N2	5.12	123.48	119.90
36	1	419	G	C4-C5-N7	-5.12	108.75	110.80
36	1	654	C	N3-C2-O2	-5.12	118.32	121.90
36	1	792	G	N3-C4-C5	5.12	131.16	128.60
36	1	890	C	N3-C4-C5	5.12	123.95	121.90
36	1	1149	G	N1-C2-N2	-5.12	111.59	116.20
36	1	1355	A	C5-C6-N1	-5.12	115.14	117.70
36	1	1363	A	C4-C5-N7	5.12	113.26	110.70
36	1	2316	G	OP1-P-O3'	5.12	116.46	105.20
36	1	2382	G	O5'-P-OP1	5.12	116.84	110.70
36	1	2872	A	P-O3'-C3'	5.12	125.84	119.70
36	1	3241	G	C5-C6-N1	5.12	114.06	111.50
37	3	104	A	N9-C4-C5	5.12	107.85	105.80
1	6	62	A	N9-C4-C5	5.12	107.85	105.80
1	6	341	A	N9-C4-C5	5.12	107.85	105.80
1	6	596	C	N3-C2-O2	5.12	125.48	121.90
36	5	320	G	N9-C1'-C2'	-5.12	106.37	112.00
36	5	1013	G	C4-C5-N7	-5.12	108.75	110.80
36	5	1484	U	C5-C4-O4	5.12	128.97	125.90
36	5	2875	U	O4'-C1'-N1	5.12	112.29	108.20
36	5	2910	A	OP2-P-O3'	5.12	116.46	105.20
36	5	3044	G	O5'-P-OP1	5.12	116.84	110.70
36	5	3150	A	C5-N7-C8	-5.12	101.34	103.90
37	7	18	C	C6-N1-C2	5.12	122.35	120.30
10	S8	9	HIS	N-CA-C	-5.12	97.19	111.00
36	1	1417	G	C5-C6-N1	5.12	114.06	111.50
36	1	2653	C	C2-N1-C1'	5.12	124.43	118.80
1	6	130	C	N1-C2-O2	5.12	121.97	118.90
1	6	1644	C	N1-C2-N3	5.12	122.78	119.20
36	5	566	G	N3-C2-N2	5.12	123.48	119.90
36	5	867	G	C8-N9-C1'	-5.12	120.35	127.00
36	5	2586	G	C8-N9-C1'	5.12	133.65	127.00
36	5	2819	A	OP2-P-O3'	5.12	116.46	105.20
36	5	2994	A	C4-C5-C6	5.12	119.56	117.00
1	2	5	U	C5-C6-N1	5.12	125.26	122.70
36	1	81	C	C4-C5-C6	5.12	119.96	117.40
36	1	809	G	O5'-P-OP1	5.12	116.84	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	876	A	C4-N9-C1'	5.12	135.51	126.30
36	1	1103	A	C8-N9-C4	5.12	107.85	105.80
36	1	2330	C	C6-N1-C2	-5.12	118.25	120.30
36	1	2698	G	N7-C8-N9	-5.12	110.54	113.10
36	1	2865	U	OP1-P-OP2	-5.12	111.93	119.60
36	1	3088	G	OP1-P-O3'	-5.12	93.95	105.20
36	1	3276	G	N3-C4-N9	-5.12	122.93	126.00
1	6	105	A	OP1-P-OP2	5.12	127.27	119.60
1	6	555	A	N3-C4-C5	-5.12	123.22	126.80
1	6	572	C	C6-N1-C2	5.12	122.35	120.30
1	6	1600	A	N1-C6-N6	5.12	121.67	118.60
36	5	267	G	C2-N3-C4	5.12	114.46	111.90
36	5	283	G	N1-C6-O6	-5.12	116.83	119.90
36	5	1057	A	C2-N3-C4	-5.12	108.04	110.60
36	5	1159	A	C5-N7-C8	-5.12	101.34	103.90
36	5	1350	A	N9-C4-C5	5.12	107.85	105.80
36	5	2608	G	OP1-P-O3'	-5.12	93.94	105.20
36	5	2855	U	O4'-C1'-N1	-5.12	104.11	108.20
38	8	101	U	C5-C6-N1	-5.12	120.14	122.70
1	2	1199	G	O4'-C1'-N9	5.11	112.29	108.20
36	1	348	A	N3-C4-C5	5.11	130.38	126.80
36	1	649	A	N7-C8-N9	-5.11	111.24	113.80
36	1	1138	U	C2-N3-C4	-5.11	123.93	127.00
36	1	1513	G	C6-C5-N7	-5.11	127.33	130.40
36	1	1620	U	C2-N1-C1'	5.11	123.84	117.70
36	1	1774	C	C6-N1-C2	5.11	122.35	120.30
36	1	1815	U	P-O3'-C3'	5.11	125.84	119.70
36	1	2364	G	N1-C2-N2	-5.11	111.60	116.20
36	1	2387	A	N7-C8-N9	5.11	116.36	113.80
36	1	3330	A	N1-C6-N6	-5.11	115.53	118.60
38	4	126	A	O5'-P-OP1	-5.11	101.10	105.70
1	6	302	U	P-O3'-C3'	-5.11	113.56	119.70
1	6	1140	G	OP2-P-O3'	5.11	116.45	105.20
1	6	1432	U	N3-C2-O2	-5.11	118.62	122.20
36	5	137	G	N3-C2-N2	-5.11	116.32	119.90
36	5	747	A	O5'-P-OP1	5.11	116.83	110.70
36	5	834	U	N1-C2-N3	5.11	117.97	114.90
36	5	2615	G	OP2-P-O3'	5.11	116.45	105.20
36	5	2829	U	N3-C4-O4	5.11	122.98	119.40
38	8	110	C	O5'-P-OP2	-5.11	101.10	105.70
1	2	766	U	C2-N1-C1'	5.11	123.83	117.70
1	2	1766	A	O4'-C1'-N9	5.11	112.29	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	78	U	O5'-P-OP1	-5.11	101.10	105.70
36	1	864	G	C8-N9-C1'	-5.11	120.35	127.00
36	1	997	A	OP2-P-O3'	5.11	116.45	105.20
36	1	1460	A	N1-C6-N6	-5.11	115.53	118.60
36	1	2177	G	N1-C2-N2	-5.11	111.60	116.20
36	1	2275	A	C8-N9-C4	-5.11	103.75	105.80
36	1	2589	G	C4-N9-C1'	5.11	133.15	126.50
38	4	98	U	N3-C2-O2	-5.11	118.62	122.20
36	5	1100	U	C2-N1-C1'	-5.11	111.57	117.70
36	5	2422	C	C2-N3-C4	-5.11	117.34	119.90
37	7	100	C	N1-C2-O2	-5.11	115.83	118.90
1	2	861	U	N3-C2-O2	5.11	125.78	122.20
1	2	1240	U	O5'-P-OP2	-5.11	101.10	105.70
36	1	44	U	OP2-P-O3'	5.11	116.44	105.20
36	1	76	G	OP1-P-O3'	5.11	116.44	105.20
36	1	223	U	C5-C6-N1	-5.11	120.14	122.70
36	1	351	A	O4'-C1'-N9	-5.11	104.11	108.20
36	1	1116	G	C5-N7-C8	-5.11	101.75	104.30
36	1	1124	U	C5-C6-N1	5.11	125.25	122.70
36	1	1430	U	N3-C4-O4	5.11	122.98	119.40
36	1	2122	G	N3-C4-N9	-5.11	122.93	126.00
36	1	2357	A	N7-C8-N9	5.11	116.36	113.80
1	6	1630	U	C5-C4-O4	-5.11	122.83	125.90
36	5	576	C	N1-C2-N3	5.11	122.78	119.20
36	5	728	G	N9-C1'-C2'	-5.11	106.38	112.00
36	5	1115	G	C5-C6-N1	5.11	114.06	111.50
36	5	1790	G	C5-C6-N1	-5.11	108.94	111.50
36	5	2282	U	C2-N3-C4	-5.11	123.93	127.00
36	5	2950	G	N7-C8-N9	5.11	115.66	113.10
36	1	708	G	N3-C4-C5	-5.11	126.05	128.60
36	1	714	G	C2-N3-C4	-5.11	109.35	111.90
36	1	840	C	C2-N1-C1'	-5.11	113.18	118.80
36	1	1060	U	C2-N3-C4	-5.11	123.94	127.00
36	1	1744	G	C2-N3-C4	-5.11	109.35	111.90
36	1	2178	A	OP2-P-O3'	5.11	116.44	105.20
36	1	2894	C	N1-C2-O2	5.11	121.97	118.90
38	4	94	C	N1-C2-O2	5.11	121.97	118.90
1	6	247	A	N9-C4-C5	-5.11	103.76	105.80
36	5	3024	A	C6-N1-C2	5.11	121.67	118.60
38	8	32	C	C6-N1-C2	5.11	122.34	120.30
44	17	45	LEU	CB-CG-CD1	5.11	119.69	111.00
55	m9	62	ARG	NE-CZ-NH2	-5.11	117.75	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	587	C	C6-N1-C2	-5.11	118.26	120.30
36	1	1743	G	C6-C5-N7	5.11	133.47	130.40
36	1	2105	G	C4-C5-N7	5.11	112.84	110.80
36	1	2415	C	N3-C4-N4	-5.11	114.42	118.00
36	1	2864	A	C2-N3-C4	-5.11	108.05	110.60
36	1	2881	C	C5-C6-N1	-5.11	118.45	121.00
36	1	2895	G	OP1-P-OP2	-5.11	111.94	119.60
36	1	3248	C	N3-C2-O2	5.11	125.47	121.90
70	O4	30	LEU	CA-CB-CG	-5.11	103.55	115.30
1	6	204	G	C4-N9-C1'	5.11	133.14	126.50
1	6	474	A	C5-N7-C8	-5.11	101.35	103.90
1	6	566	C	C4-C5-C6	5.11	119.95	117.40
1	6	603	U	N1-C2-N3	5.11	117.96	114.90
36	5	532	A	C2-N3-C4	-5.11	108.05	110.60
36	5	731	U	C5-C4-O4	5.11	128.96	125.90
36	5	1160	C	C2-N3-C4	-5.11	117.35	119.90
36	5	1202	A	C8-N9-C1'	-5.11	118.51	127.70
36	5	1287	A	C4-C5-C6	5.11	119.55	117.00
36	5	1546	A	O5'-P-OP2	5.11	116.83	110.70
36	5	2185	G	C5-N7-C8	-5.11	101.75	104.30
36	5	2364	G	C8-N9-C4	-5.11	104.36	106.40
36	5	3149	G	O5'-P-OP2	-5.11	101.10	105.70
37	7	90	U	C5-C4-O4	-5.11	122.83	125.90
1	2	1776	A	C5-C6-N1	5.11	120.25	117.70
36	1	240	U	N3-C4-C5	-5.11	111.54	114.60
36	1	500	C	C5-C6-N1	-5.11	118.45	121.00
36	1	796	U	N3-C4-C5	5.11	117.66	114.60
36	1	1577	G	C8-N9-C4	-5.11	104.36	106.40
36	1	2876	C	N3-C4-C5	-5.11	119.86	121.90
40	L3	150	ARG	NE-CZ-NH1	-5.11	117.75	120.30
1	6	204	G	N1-C6-O6	5.11	122.96	119.90
1	6	340	U	C4-C5-C6	5.11	122.76	119.70
1	6	1454	G	C5-C6-O6	-5.11	125.54	128.60
1	6	1610	G	N1-C2-N2	-5.11	111.61	116.20
36	5	1764	U	N3-C2-O2	-5.11	118.63	122.20
36	5	1810	A	C4-C5-N7	5.11	113.25	110.70
36	5	1854	C	C4-C5-C6	5.11	119.95	117.40
36	5	2125	A	N3-C4-C5	5.11	130.37	126.80
36	5	2258	U	N1-C2-O2	5.11	126.37	122.80
36	1	197	G	C2-N3-C4	-5.10	109.35	111.90
36	1	319	A	N1-C6-N6	-5.10	115.54	118.60
36	1	952	A	N1-C2-N3	5.10	131.85	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1412	G	C4-C5-N7	5.10	112.84	110.80
36	1	1456	A	C5-C6-N6	5.10	127.78	123.70
36	1	2370	G	C4-C5-N7	-5.10	108.76	110.80
1	6	1421	A	N7-C8-N9	-5.10	111.25	113.80
36	5	43	A	O4'-C1'-N9	5.10	112.28	108.20
36	5	274	G	C8-N9-C4	5.10	108.44	106.40
36	5	1911	A	N1-C2-N3	5.10	131.85	129.30
36	5	2420	C	O5'-P-OP2	5.10	116.83	110.70
36	5	2863	G	N3-C2-N2	-5.10	116.33	119.90
37	7	1	G	C4-C5-N7	5.10	112.84	110.80
37	7	77	G	OP1-P-O3'	5.10	116.43	105.20
38	8	5	U	N1-C2-O2	-5.10	119.23	122.80
1	2	144	U	C4-C5-C6	5.10	122.76	119.70
1	2	351	C	C2-N1-C1'	-5.10	113.19	118.80
1	2	1758	U	N3-C2-O2	-5.10	118.63	122.20
36	1	287	G	N7-C8-N9	5.10	115.65	113.10
36	1	379	C	O5'-P-OP1	5.10	116.82	110.70
36	1	407	A	O4'-C1'-N9	-5.10	104.12	108.20
36	1	876	A	N1-C2-N3	5.10	131.85	129.30
36	1	877	C	OP2-P-O3'	5.10	116.43	105.20
36	1	953	G	N3-C4-N9	-5.10	122.94	126.00
36	1	1166	G	N9-C1'-C2'	-5.10	106.39	112.00
36	1	1909	A	O5'-P-OP2	5.10	116.82	110.70
36	1	2771	U	C5-C6-N1	5.10	125.25	122.70
36	1	2772	C	N1-C2-N3	-5.10	115.63	119.20
36	1	2808	A	C6-C5-N7	-5.10	128.73	132.30
36	1	2837	A	O4'-C1'-N9	-5.10	104.12	108.20
1	6	104	A	C8-N9-C4	-5.10	103.76	105.80
1	6	539	G	O4'-C1'-N9	-5.10	104.12	108.20
1	6	594	A	C5-C6-N1	5.10	120.25	117.70
1	6	761	G	N3-C4-C5	-5.10	126.05	128.60
1	6	1477	G	C8-N9-C4	5.10	108.44	106.40
11	s9	3	ARG	NE-CZ-NH1	-5.10	117.75	120.30
36	5	305	U	C4-C5-C6	5.10	122.76	119.70
36	5	946	U	N3-C4-O4	5.10	122.97	119.40
36	5	1208	U	C2-N1-C1'	-5.10	111.58	117.70
36	5	2409	G	C4-C5-C6	5.10	121.86	118.80
36	5	2657	A	OP1-P-O3'	5.10	116.43	105.20
36	5	2917	G	N9-C4-C5	5.10	107.44	105.40
36	5	3089	C	N3-C2-O2	5.10	125.47	121.90
1	2	1165	G	C8-N9-C1'	-5.10	120.37	127.00
1	2	1241	G	C8-N9-C4	-5.10	104.36	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1550	C	OP1-P-OP2	-5.10	111.95	119.60
36	1	2371	G	C4-C5-N7	-5.10	108.76	110.80
36	1	3057	U	N1-C2-N3	5.10	117.96	114.90
36	1	3209	A	C8-N9-C1'	-5.10	118.52	127.70
1	6	85	A	C5-N7-C8	-5.10	101.35	103.90
1	6	576	G	C5-C6-N1	-5.10	108.95	111.50
1	6	1631	A	C4-C5-N7	5.10	113.25	110.70
36	5	501	A	OP2-P-O3'	5.10	116.42	105.20
36	5	675	C	OP1-P-OP2	-5.10	111.95	119.60
36	5	1045	C	O4'-C1'-N1	-5.10	104.12	108.20
36	5	2834	G	N1-C6-O6	-5.10	116.84	119.90
36	1	612	U	OP1-P-O3'	5.10	116.42	105.20
36	1	1599	G	C2-N3-C4	-5.10	109.35	111.90
36	1	2177	G	C8-N9-C4	-5.10	104.36	106.40
36	1	2324	A	O4'-C1'-N9	-5.10	104.12	108.20
36	1	2748	A	C8-N9-C4	5.10	107.84	105.80
36	1	2843	U	C5-C6-N1	5.10	125.25	122.70
36	1	2925	C	O4'-C1'-N1	5.10	112.28	108.20
1	6	1031	U	O5'-P-OP1	-5.10	101.11	105.70
36	5	229	G	N7-C8-N9	5.10	115.65	113.10
36	5	363	G	N3-C4-N9	5.10	129.06	126.00
36	5	811	U	C4-C5-C6	5.10	122.76	119.70
36	5	1119	C	C5-C6-N1	-5.10	118.45	121.00
36	5	1122	U	C2-N1-C1'	5.10	123.82	117.70
36	5	1134	G	N3-C2-N2	-5.10	116.33	119.90
36	5	1154	A	C4-C5-C6	5.10	119.55	117.00
36	5	1371	G	C6-N1-C2	-5.10	122.04	125.10
36	5	1471	U	C5-C4-O4	5.10	128.96	125.90
36	5	2407	C	N3-C4-C5	5.10	123.94	121.90
36	5	3024	A	C4-N9-C1'	-5.10	117.12	126.30
38	8	31	G	N1-C2-N2	-5.10	111.61	116.20
1	2	315	A	C2-N3-C4	5.10	113.15	110.60
1	2	985	G	N3-C4-C5	-5.10	126.05	128.60
36	1	353	G	N7-C8-N9	-5.10	110.55	113.10
36	1	1515	A	C8-N9-C4	5.10	107.84	105.80
36	1	2292	U	O5'-P-OP1	-5.10	101.11	105.70
36	1	3107	U	N1-C1'-C2'	-5.10	106.39	112.00
36	1	3395	G	OP1-P-OP2	5.10	127.25	119.60
1	6	55	A	N9-C4-C5	5.10	107.84	105.80
1	6	425	A	C5-C6-N1	5.10	120.25	117.70
36	5	209	A	C5-C6-N1	5.10	120.25	117.70
36	5	984	G	C4-C5-C6	5.10	121.86	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	993	G	O5'-P-OP2	-5.10	101.11	105.70
36	5	1204	A	N3-C4-C5	5.10	130.37	126.80
36	5	2247	G	C8-N9-C1'	-5.10	120.37	127.00
36	5	3011	A	C8-N9-C4	5.10	107.84	105.80
36	5	3336	A	C5-N7-C8	-5.10	101.35	103.90
46	19	166	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	2	1264	G	C5-C6-O6	5.10	131.66	128.60
36	1	2714	G	N9-C4-C5	5.10	107.44	105.40
40	L3	43	LEU	CA-CB-CG	5.10	127.02	115.30
1	6	128	U	C5-C6-N1	-5.10	120.15	122.70
1	6	473	A	C4-C5-N7	-5.10	108.15	110.70
1	6	697	C	N3-C4-C5	-5.10	119.86	121.90
36	5	559	A	C5-N7-C8	-5.10	101.35	103.90
36	5	1929	G	N7-C8-N9	5.10	115.65	113.10
36	5	2099	A	O4'-C1'-N9	5.10	112.28	108.20
36	5	2765	C	C5-C4-N4	-5.10	116.63	120.20
36	1	318	A	O5'-P-OP1	-5.09	101.11	105.70
36	1	407	A	C4-N9-C1'	5.09	135.47	126.30
36	1	991	G	N1-C2-N3	5.09	126.96	123.90
36	1	1332	A	C6-N1-C2	-5.09	115.54	118.60
36	1	1883	A	C2-N3-C4	-5.09	108.05	110.60
36	1	2300	G	C5-C6-O6	5.09	131.66	128.60
36	1	3063	C	OP2-P-O3'	5.09	116.41	105.20
36	1	3377	G	C5-C6-O6	5.09	131.66	128.60
1	6	908	U	N3-C2-O2	-5.09	118.63	122.20
1	6	963	A	N9-C4-C5	-5.09	103.76	105.80
1	6	1643	U	C4-C5-C6	5.09	122.76	119.70
20	c8	135	GLY	N-CA-C	5.09	125.84	113.10
36	5	155	G	N3-C4-C5	-5.09	126.05	128.60
36	5	286	U	C2-N1-C1'	5.09	123.81	117.70
36	5	661	G	C8-N9-C4	-5.09	104.36	106.40
36	5	1177	G	N3-C4-C5	-5.09	126.05	128.60
36	5	1322	U	N3-C2-O2	5.09	125.77	122.20
36	5	1637	A	C5-C6-N6	5.09	127.78	123.70
36	5	1685	C	C5-C6-N1	-5.09	118.45	121.00
36	5	2866	U	C6-N1-C2	-5.09	117.94	121.00
36	5	2976	A	N3-C4-C5	-5.09	123.23	126.80
36	5	3124	G	O5'-P-OP2	-5.09	101.11	105.70
36	5	3166	C	N3-C2-O2	-5.09	118.33	121.90
48	m1	94	ARG	NE-CZ-NH1	5.09	122.85	120.30
1	2	196	G	O4'-C1'-N9	5.09	112.27	108.20
1	2	441	A	C8-N9-C4	-5.09	103.76	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	828	A	C6-C5-N7	-5.09	128.74	132.30
36	1	947	G	C4-C5-N7	-5.09	108.76	110.80
36	1	1364	C	N1-C2-O2	5.09	121.96	118.90
36	1	2858	U	C2-N1-C1'	5.09	123.81	117.70
37	3	95	A	OP1-P-OP2	-5.09	111.96	119.60
1	6	214	G	C4-N9-C1'	-5.09	119.88	126.50
1	6	1537	C	C2-N1-C1'	-5.09	113.20	118.80
1	6	1663	G	N7-C8-N9	-5.09	110.55	113.10
36	5	1073	U	N3-C4-C5	5.09	117.66	114.60
36	5	2968	G	N1-C2-N3	5.09	126.96	123.90
1	2	45	U	C5-C4-O4	5.09	128.95	125.90
1	2	947	U	C2-N1-C1'	-5.09	111.59	117.70
1	2	970	A	OP2-P-O3'	5.09	116.40	105.20
1	2	1746	A	OP1-P-O3'	5.09	116.40	105.20
1	2	1796	C	N3-C4-C5	-5.09	119.86	121.90
36	1	42	C	C5-C4-N4	-5.09	116.64	120.20
36	1	71	A	O5'-P-OP2	5.09	116.81	110.70
36	1	2417	U	C5-C6-N1	-5.09	120.15	122.70
36	1	2656	A	OP1-P-OP2	5.09	127.24	119.60
36	1	2816	G	N1-C2-N3	5.09	126.95	123.90
61	N5	115	ARG	NE-CZ-NH2	-5.09	117.75	120.30
1	6	112	A	C5-C6-N6	-5.09	119.63	123.70
1	6	1387	G	C4-C5-N7	-5.09	108.76	110.80
1	6	1571	C	C4-C5-C6	5.09	119.95	117.40
1	6	1760	G	N1-C6-O6	-5.09	116.84	119.90
36	5	23	A	C5-N7-C8	-5.09	101.35	103.90
36	5	650	C	C5-C6-N1	-5.09	118.45	121.00
36	5	1061	A	O4'-C1'-N9	5.09	112.27	108.20
36	5	1063	G	C2-N3-C4	-5.09	109.36	111.90
36	5	1914	G	C5-N7-C8	-5.09	101.75	104.30
36	5	2245	C	C4-C5-C6	5.09	119.95	117.40
36	5	2746	A	C5-C6-N6	5.09	127.77	123.70
36	5	2835	U	OP2-P-O3'	5.09	116.40	105.20
36	5	2848	G	C5-N7-C8	-5.09	101.75	104.30
36	5	3145	C	O5'-P-OP2	-5.09	101.12	105.70
1	2	1071	U	C5-C4-O4	5.09	128.95	125.90
36	1	992	A	C4-C5-C6	-5.09	114.45	117.00
36	1	1189	C	N1-C2-O2	-5.09	115.85	118.90
36	1	1461	A	C5-C6-N6	-5.09	119.63	123.70
36	1	2738	A	O5'-P-OP2	-5.09	101.12	105.70
36	1	2895	G	N7-C8-N9	5.09	115.64	113.10
36	1	3300	U	C2-N1-C1'	5.09	123.81	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	52	A	P-O3'-C3'	-5.09	113.59	119.70
1	6	286	C	C5-C4-N4	-5.09	116.64	120.20
1	6	369	A	N1-C6-N6	5.09	121.65	118.60
1	6	977	A	C6-C5-N7	-5.09	128.74	132.30
1	6	1173	C	N3-C4-C5	5.09	123.94	121.90
1	6	1284	C	O5'-P-OP2	-5.09	101.12	105.70
36	5	155	G	C2-N3-C4	5.09	114.44	111.90
36	5	770	G	O5'-P-OP2	5.09	116.81	110.70
36	5	1448	U	N3-C2-O2	-5.09	118.64	122.20
36	5	1578	C	N1-C2-O2	5.09	121.95	118.90
36	5	1582	C	N3-C4-C5	5.09	123.94	121.90
36	5	1760	A	C5-C6-N6	5.09	127.77	123.70
36	5	2678	A	N9-C4-C5	5.09	107.84	105.80
36	5	3266	G	N9-C4-C5	5.09	107.44	105.40
37	7	105	C	N3-C2-O2	-5.09	118.34	121.90
36	1	661	G	OP1-P-OP2	5.09	127.23	119.60
36	1	2383	C	N3-C4-N4	5.09	121.56	118.00
36	1	3213	A	C8-N9-C4	-5.09	103.77	105.80
38	4	129	C	OP2-P-O3'	5.09	116.39	105.20
1	6	409	C	C6-N1-C2	-5.09	118.27	120.30
1	6	783	G	C8-N9-C1'	-5.09	120.39	127.00
36	5	1889	G	C5-N7-C8	-5.09	101.76	104.30
36	5	2947	G	C2-N3-C4	5.09	114.44	111.90
1	2	350	U	C2-N1-C1'	-5.09	111.60	117.70
1	2	1274	C	OP1-P-O3'	-5.09	94.01	105.20
1	2	1427	A	N3-C4-C5	-5.09	123.24	126.80
36	1	823	C	O5'-P-OP1	5.09	116.80	110.70
36	1	980	A	C4-C5-C6	5.09	119.54	117.00
36	1	1628	C	C6-N1-C2	-5.09	118.27	120.30
36	1	1661	G	N1-C2-N3	5.09	126.95	123.90
36	1	1704	A	C5-C6-N1	-5.09	115.16	117.70
36	1	2297	U	C2-N3-C4	-5.09	123.95	127.00
36	1	2579	G	N1-C6-O6	-5.09	116.85	119.90
36	1	2819	A	C4-C5-C6	-5.09	114.46	117.00
36	1	2986	U	N3-C4-O4	5.09	122.96	119.40
1	6	555	A	C6-N1-C2	-5.09	115.55	118.60
1	6	586	G	C4-C5-N7	-5.09	108.77	110.80
1	6	927	C	C2-N1-C1'	5.09	124.40	118.80
1	6	1515	A	O4'-C1'-N9	-5.09	104.13	108.20
1	6	1516	A	C6-N1-C2	-5.09	115.55	118.60
1	6	1602	C	N1-C2-N3	5.09	122.76	119.20
36	5	577	C	N3-C4-N4	-5.09	114.44	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	614	C	C4-C5-C6	-5.09	114.86	117.40
36	5	619	A	O4'-C1'-N9	-5.09	104.13	108.20
36	5	684	G	C4-N9-C1'	-5.09	119.89	126.50
36	5	819	U	C2-N3-C4	5.09	130.05	127.00
36	5	825	U	C2-N1-C1'	-5.09	111.60	117.70
36	5	872	U	OP1-P-OP2	-5.09	111.97	119.60
36	5	919	U	N1-C2-O2	-5.09	119.24	122.80
36	5	1922	A	N3-C4-N9	-5.09	123.33	127.40
36	5	2654	C	C4-C5-C6	-5.09	114.86	117.40
37	7	87	G	C5-C6-O6	-5.09	125.55	128.60
1	2	21	U	C6-N1-C1'	-5.08	114.08	121.20
36	1	300	G	N3-C4-N9	-5.08	122.95	126.00
36	1	1743	G	C8-N9-C1'	5.08	133.61	127.00
36	1	2625	C	C4-C5-C6	-5.08	114.86	117.40
36	1	2953	U	C2-N1-C1'	5.08	123.80	117.70
36	1	3064	U	N3-C2-O2	5.08	125.76	122.20
62	N6	7	ASP	CB-CG-OD1	-5.08	113.72	118.30
1	6	1624	C	C5-C6-N1	-5.08	118.46	121.00
36	5	110	G	C6-C5-N7	-5.08	127.35	130.40
36	5	956	U	OP1-P-OP2	5.08	127.23	119.60
36	5	1658	G	N3-C4-C5	-5.08	126.06	128.60
36	5	2337	C	N1-C2-N3	5.08	122.76	119.20
36	1	28	C	O5'-P-OP2	-5.08	101.12	105.70
36	1	98	G	C5-C6-N1	5.08	114.04	111.50
36	1	211	A	C4-N9-C1'	-5.08	117.15	126.30
36	1	1180	A	N1-C2-N3	5.08	131.84	129.30
36	1	1374	G	O5'-P-OP2	-5.08	101.12	105.70
36	1	2211	U	C6-N1-C2	-5.08	117.95	121.00
36	1	3213	A	N7-C8-N9	5.08	116.34	113.80
41	L4	230	VAL	CB-CA-C	-5.08	101.74	111.40
1	6	905	A	O4'-C1'-N9	5.08	112.27	108.20
1	6	1627	U	N3-C4-C5	-5.08	111.55	114.60
36	5	1480	G	C5-C6-O6	-5.08	125.55	128.60
36	5	1900	A	C2-N3-C4	5.08	113.14	110.60
36	5	2102	U	C6-N1-C2	-5.08	117.95	121.00
36	5	2142	A	O4'-C1'-N9	-5.08	104.13	108.20
36	5	2327	U	OP1-P-O3'	-5.08	94.02	105.20
36	5	2331	C	N3-C4-C5	-5.08	119.87	121.90
36	5	2633	U	C4-C5-C6	5.08	122.75	119.70
36	5	3140	G	C5-N7-C8	-5.08	101.76	104.30
38	8	54	A	C5-N7-C8	-5.08	101.36	103.90
38	8	116	G	N7-C8-N9	5.08	115.64	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1235	C	N1-C2-O2	-5.08	115.85	118.90
36	1	429	U	N3-C2-O2	-5.08	118.64	122.20
36	1	495	G	C5-C6-O6	5.08	131.65	128.60
36	1	1209	G	C6-N1-C2	-5.08	122.05	125.10
36	1	2187	G	N1-C6-O6	-5.08	116.85	119.90
36	1	2349	U	OP2-P-O3'	5.08	116.38	105.20
36	1	2933	A	C4-C5-N7	5.08	113.24	110.70
36	1	3272	C	C4-C5-C6	5.08	119.94	117.40
38	4	59	A	N9-C4-C5	5.08	107.83	105.80
38	4	117	C	C2-N1-C1'	-5.08	113.21	118.80
1	6	400	A	C4-C5-C6	5.08	119.54	117.00
1	6	571	G	OP1-P-OP2	-5.08	111.98	119.60
1	6	1192	C	C5-C4-N4	-5.08	116.64	120.20
36	5	867	G	C4-N9-C1'	5.08	133.11	126.50
36	5	1618	G	O5'-P-OP2	-5.08	101.13	105.70
36	5	2418	G	C8-N9-C1'	-5.08	120.39	127.00
36	5	2419	A	C8-N9-C4	-5.08	103.77	105.80
36	5	2850	G	N1-C6-O6	-5.08	116.85	119.90
36	5	3189	G	N3-C4-N9	5.08	129.05	126.00
1	2	423	G	C2-N3-C4	5.08	114.44	111.90
36	1	83	U	O5'-P-OP2	-5.08	101.13	105.70
36	1	1524	A	C6-N1-C2	-5.08	115.55	118.60
36	1	2347	U	C2-N3-C4	5.08	130.05	127.00
36	5	89	A	N1-C6-N6	-5.08	115.55	118.60
36	5	631	U	C5-C4-O4	-5.08	122.85	125.90
36	5	647	A	OP1-P-OP2	-5.08	111.98	119.60
36	5	952	A	N1-C6-N6	-5.08	115.55	118.60
36	5	1086	C	N3-C4-C5	-5.08	119.87	121.90
36	5	1163	A	C2-N3-C4	-5.08	108.06	110.60
36	5	1920	U	N1-C2-N3	5.08	117.95	114.90
36	5	2119	A	N1-C2-N3	5.08	131.84	129.30
36	5	3042	U	C2-N3-C4	-5.08	123.95	127.00
1	2	534	A	C4-C5-C6	-5.08	114.46	117.00
1	2	1610	G	C4-C5-C6	5.08	121.85	118.80
36	1	326	U	C2-N1-C1'	5.08	123.79	117.70
36	1	335	G	N3-C4-N9	-5.08	122.95	126.00
36	1	410	U	N3-C4-O4	-5.08	115.84	119.40
36	1	583	G	N1-C2-N2	-5.08	111.63	116.20
36	1	636	C	O5'-P-OP2	5.08	116.79	110.70
36	1	831	G	C5-C6-O6	-5.08	125.55	128.60
36	1	945	C	C2-N1-C1'	5.08	124.39	118.80
36	1	2403	G	O3'-P-O5'	-5.08	94.35	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2701	U	C6-N1-C2	-5.08	117.95	121.00
36	1	3319	U	N3-C2-O2	-5.08	118.64	122.20
1	6	803	A	C8-N9-C4	-5.08	103.77	105.80
1	6	1052	U	O5'-P-OP1	-5.08	101.13	105.70
1	6	1570	A	N9-C1'-C2'	-5.08	106.41	112.00
1	6	1651	A	N7-C8-N9	5.08	116.34	113.80
36	5	409	A	O4'-C1'-N9	5.08	112.26	108.20
36	5	864	G	N9-C4-C5	-5.08	103.37	105.40
36	5	1045	C	OP2-P-O3'	5.08	116.37	105.20
36	5	1365	G	N1-C2-N2	5.08	120.77	116.20
36	5	1377	G	C5-C6-N1	-5.08	108.96	111.50
36	5	1394	A	N1-C6-N6	5.08	121.65	118.60
36	5	1486	G	C2-N3-C4	-5.08	109.36	111.90
36	5	2813	A	C5-N7-C8	-5.08	101.36	103.90
36	5	2854	U	N3-C4-C5	-5.08	111.55	114.60
36	5	2937	G	N3-C4-N9	5.08	129.05	126.00
36	5	3164	C	C6-N1-C2	5.08	122.33	120.30
37	7	13	A	C8-N9-C4	-5.08	103.77	105.80
36	1	752	C	C2-N3-C4	-5.08	117.36	119.90
36	1	3270	U	N3-C4-O4	-5.08	115.85	119.40
1	6	402	C	N3-C2-O2	-5.08	118.35	121.90
1	6	1079	U	N3-C2-O2	5.08	125.75	122.20
36	5	208	C	N1-C2-O2	-5.08	115.85	118.90
36	5	425	G	OP2-P-O3'	5.08	116.37	105.20
36	5	650	C	N1-C2-N3	5.08	122.75	119.20
36	5	1929	G	N1-C2-N3	5.08	126.95	123.90
37	7	30	G	N1-C2-N3	5.08	126.95	123.90
38	8	41	A	C2-N3-C4	-5.08	108.06	110.60
1	2	1102	G	C4-C5-N7	5.08	112.83	110.80
1	2	1324	G	C8-N9-C1'	5.08	133.60	127.00
1	2	1520	U	C5-C4-O4	-5.08	122.86	125.90
1	2	1582	U	C2-N1-C1'	5.08	123.79	117.70
36	1	25	U	C2-N3-C4	5.08	130.04	127.00
36	1	964	G	C5-C6-N1	5.08	114.04	111.50
36	1	1303	A	N1-C2-N3	5.08	131.84	129.30
36	1	1520	G	OP2-P-O3'	5.08	116.36	105.20
36	1	2957	G	N7-C8-N9	5.08	115.64	113.10
36	1	3006	A	C4-C5-C6	5.08	119.54	117.00
36	1	3075	G	N3-C4-C5	5.08	131.14	128.60
1	6	62	A	C4-C5-N7	-5.08	108.16	110.70
1	6	246	G	N3-C4-C5	-5.08	126.06	128.60
1	6	305	C	C6-N1-C2	5.08	122.33	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	930	A	C6-N1-C2	-5.08	115.55	118.60
1	6	1575	G	C4-C5-C6	-5.08	115.75	118.80
1	6	1785	U	O5'-P-OP2	5.08	116.79	110.70
36	5	303	G	N3-C4-C5	-5.08	126.06	128.60
36	5	561	C	C4-C5-C6	5.08	119.94	117.40
36	5	1335	C	C5-C6-N1	5.08	123.54	121.00
36	5	2863	G	C5-C6-N1	-5.08	108.96	111.50
36	5	3012	A	N9-C4-C5	-5.08	103.77	105.80
36	5	3207	U	N3-C4-O4	-5.08	115.85	119.40
38	8	70	G	N1-C6-O6	-5.08	116.86	119.90
1	2	985	G	N3-C4-N9	5.07	129.04	126.00
36	1	35	A	N9-C4-C5	-5.07	103.77	105.80
36	1	63	A	N1-C2-N3	-5.07	126.76	129.30
36	1	515	C	C6-N1-C1'	-5.07	114.71	120.80
36	1	921	A	O4'-C1'-N9	-5.07	104.14	108.20
36	1	1938	U	N3-C2-O2	5.07	125.75	122.20
36	1	2171	G	C4-C5-N7	-5.07	108.77	110.80
36	1	2184	U	C5-C4-O4	-5.07	122.86	125.90
36	1	2604	U	C4-C5-C6	5.07	122.75	119.70
36	1	2879	C	C6-N1-C2	5.07	122.33	120.30
38	4	62	C	N3-C2-O2	-5.07	118.35	121.90
38	4	85	G	N3-C2-N2	5.07	123.45	119.90
1	6	953	G	N9-C4-C5	-5.07	103.37	105.40
1	6	1071	U	OP1-P-OP2	5.07	127.21	119.60
1	6	1418	G	C6-N1-C2	5.07	128.14	125.10
1	6	1629	G	N3-C4-N9	5.07	129.04	126.00
1	6	1716	C	C6-N1-C2	5.07	122.33	120.30
36	5	49	A	C8-N9-C4	5.07	107.83	105.80
36	5	188	U	N3-C4-O4	5.07	122.95	119.40
36	5	1008	U	N3-C2-O2	5.07	125.75	122.20
36	5	1530	U	C5-C4-O4	-5.07	122.86	125.90
36	5	1652	G	O5'-P-OP1	5.07	116.79	110.70
36	5	1733	G	C4-N9-C1'	5.07	133.09	126.50
36	5	1866	C	C6-N1-C2	-5.07	118.27	120.30
36	5	2150	G	C4-C5-C6	5.07	121.84	118.80
36	5	2858	U	C4-C5-C6	5.07	122.74	119.70
36	5	2859	U	C2-N1-C1'	-5.07	111.61	117.70
36	5	3323	A	N3-C4-C5	-5.07	123.25	126.80
36	1	871	U	N1-C2-O2	-5.07	119.25	122.80
36	1	1190	A	N9-C4-C5	5.07	107.83	105.80
36	1	1471	U	C5-C6-N1	-5.07	120.16	122.70
36	1	1939	G	N3-C4-N9	5.07	129.04	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1951	C	C5-C6-N1	5.07	123.54	121.00
36	1	2686	A	N7-C8-N9	5.07	116.34	113.80
44	L7	202	LEU	CA-CB-CG	-5.07	103.64	115.30
1	6	1584	G	C4-C5-N7	5.07	112.83	110.80
36	5	367	A	N9-C4-C5	5.07	107.83	105.80
36	5	1066	G	O5'-P-OP2	5.07	116.79	110.70
36	5	1363	A	C4-C5-N7	-5.07	108.16	110.70
36	5	1892	G	N1-C2-N2	-5.07	111.64	116.20
36	5	2650	U	N1-C2-N3	5.07	117.94	114.90
36	5	2688	U	C4-C5-C6	5.07	122.74	119.70
29	D7	41	LEU	CA-CB-CG	5.07	126.96	115.30
36	1	369	A	N9-C4-C5	5.07	107.83	105.80
36	1	813	G	C5-C6-O6	-5.07	125.56	128.60
36	1	896	A	C6-N1-C2	-5.07	115.56	118.60
36	1	1100	U	C4-C5-C6	5.07	122.74	119.70
36	1	1423	C	N3-C2-O2	-5.07	118.35	121.90
36	1	1534	A	N7-C8-N9	5.07	116.33	113.80
36	1	1760	A	C8-N9-C4	-5.07	103.77	105.80
36	1	1791	C	N3-C4-N4	-5.07	114.45	118.00
36	1	2858	U	N1-C2-O2	5.07	126.35	122.80
36	1	3296	A	C8-N9-C4	5.07	107.83	105.80
38	4	21	C	C6-N1-C2	5.07	122.33	120.30
75	O9	6	SER	N-CA-C	-5.07	97.31	111.00
1	6	342	C	C4-C5-C6	5.07	119.94	117.40
1	6	410	A	C5-C6-N6	-5.07	119.64	123.70
1	6	457	G	C8-N9-C4	5.07	108.43	106.40
1	6	628	G	N9-C4-C5	-5.07	103.37	105.40
1	6	967	A	C8-N9-C4	5.07	107.83	105.80
1	6	1003	A	N9-C4-C5	-5.07	103.77	105.80
1	6	1508	U	C4-C5-C6	5.07	122.74	119.70
1	6	1791	A	O5'-P-OP1	5.07	116.78	110.70
36	5	182	U	C4-C5-C6	5.07	122.74	119.70
36	5	804	C	N1-C1'-C2'	-5.07	106.42	112.00
36	5	1041	U	C6-N1-C2	5.07	124.04	121.00
36	5	1078	U	OP1-P-OP2	-5.07	112.00	119.60
36	5	1607	U	N3-C4-O4	5.07	122.95	119.40
36	5	1897	G	C8-N9-C1'	-5.07	120.41	127.00
36	5	2737	C	C2-N3-C4	-5.07	117.36	119.90
36	5	2793	G	C5-N7-C8	-5.07	101.77	104.30
36	5	3082	C	C5-C4-N4	-5.07	116.65	120.20
36	5	3094	A	OP2-P-O3'	5.07	116.35	105.20
36	1	683	U	C6-N1-C2	5.07	124.04	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2248	C	C6-N1-C2	5.07	122.33	120.30
36	1	3141	A	C4-C5-N7	5.07	113.23	110.70
1	6	1194	A	C4-C5-C6	5.07	119.53	117.00
36	5	1724	U	N1-C2-O2	-5.07	119.25	122.80
36	5	2255	A	C5-C6-N1	5.07	120.23	117.70
36	5	3184	A	C2-N3-C4	-5.07	108.06	110.60
1	2	18	C	C2-N1-C1'	5.07	124.37	118.80
1	2	30	G	C5-C6-O6	-5.07	125.56	128.60
1	2	440	U	N1-C2-O2	-5.07	119.25	122.80
1	2	880	C	C6-N1-C2	-5.07	118.27	120.30
1	2	1358	G	C4-N9-C1'	-5.07	119.91	126.50
36	1	637	C	C6-N1-C1'	-5.07	114.72	120.80
36	1	960	U	C6-N1-C2	5.07	124.04	121.00
36	1	1184	A	C2-N3-C4	-5.07	108.07	110.60
36	1	1417	G	O4'-C1'-N9	-5.07	104.14	108.20
36	1	1708	C	C2-N1-C1'	-5.07	113.23	118.80
36	1	2433	U	C5-C6-N1	5.07	125.23	122.70
36	1	2636	A	N9-C4-C5	5.07	107.83	105.80
36	1	3193	C	C5-C6-N1	5.07	123.53	121.00
55	M9	44	LEU	CA-CB-CG	5.07	126.96	115.30
1	6	136	C	C6-N1-C1'	-5.07	114.72	120.80
1	6	1169	G	N1-C2-N3	5.07	126.94	123.90
1	6	1582	U	O4'-C1'-N1	5.07	112.25	108.20
1	6	1730	A	C5-C6-N1	5.07	120.23	117.70
1	6	1766	A	C6-C5-N7	-5.07	128.75	132.30
24	d2	57	ARG	NE-CZ-NH2	-5.07	117.77	120.30
36	5	674	G	C5-C6-N1	5.07	114.03	111.50
36	5	1111	U	C2-N1-C1'	-5.07	111.62	117.70
36	5	1225	A	N7-C8-N9	-5.07	111.27	113.80
36	5	1303	A	N3-C4-C5	5.07	130.35	126.80
36	5	1433	A	N7-C8-N9	5.07	116.33	113.80
36	5	1443	G	N3-C2-N2	-5.07	116.35	119.90
36	5	1604	G	C8-N9-C4	-5.07	104.37	106.40
36	5	1654	A	N7-C8-N9	-5.07	111.27	113.80
36	5	1791	C	N3-C4-N4	5.07	121.55	118.00
36	5	2238	G	C4-C5-N7	5.07	112.83	110.80
36	5	2416	U	C5-C4-O4	5.07	128.94	125.90
36	5	2801	A	N1-C6-N6	5.07	121.64	118.60
36	5	3083	G	C4-C5-N7	5.07	112.83	110.80
36	5	3117	C	C6-N1-C1'	-5.07	114.72	120.80
36	5	3394	U	C5-C4-O4	5.07	128.94	125.90
37	7	8	G	N1-C2-N3	5.07	126.94	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	C7	73	LEU	CA-CB-CG	5.07	126.95	115.30
36	1	347	G	N3-C2-N2	5.07	123.45	119.90
36	1	605	U	N1-C2-N3	5.07	117.94	114.90
36	1	688	G	N7-C8-N9	5.07	115.63	113.10
36	1	1150	A	C5-C6-N6	5.07	127.75	123.70
36	1	1511	U	N1-C2-N3	5.07	117.94	114.90
36	1	1656	A	OP1-P-OP2	5.07	127.20	119.60
36	1	1774	C	C5-C4-N4	-5.07	116.66	120.20
36	1	1843	C	C5-C6-N1	5.07	123.53	121.00
36	1	2114	C	O5'-P-OP1	5.07	116.78	110.70
36	1	2879	C	C5-C4-N4	-5.07	116.66	120.20
36	1	3094	A	C8-N9-C4	-5.07	103.77	105.80
36	1	3304	U	C2-N1-C1'	5.07	123.78	117.70
1	6	71	A	C8-N9-C4	-5.07	103.77	105.80
1	6	119	A	O5'-P-OP1	-5.07	101.14	105.70
1	6	1596	C	C6-N1-C1'	-5.07	114.72	120.80
36	5	1332	A	C6-N1-C2	-5.07	115.56	118.60
36	5	1356	U	C5-C6-N1	5.07	125.23	122.70
36	5	2365	C	C6-N1-C2	5.07	122.33	120.30
36	5	2756	C	N3-C2-O2	-5.07	118.35	121.90
36	5	2864	A	C4-C5-N7	5.07	113.23	110.70
1	2	360	A	C4-C5-C6	-5.06	114.47	117.00
1	2	964	U	C6-N1-C1'	-5.06	114.11	121.20
36	1	803	C	C2-N3-C4	-5.06	117.37	119.90
36	1	877	C	OP1-P-OP2	-5.06	112.00	119.60
36	1	932	U	O4'-C1'-N1	5.06	112.25	108.20
36	1	1632	A	N7-C8-N9	5.06	116.33	113.80
36	1	1728	G	N3-C4-C5	-5.06	126.07	128.60
36	1	2946	A	C5'-C4'-O4'	5.06	115.18	109.10
1	6	596	C	N1-C2-O2	-5.06	115.86	118.90
1	6	984	G	N7-C8-N9	-5.06	110.57	113.10
1	6	1733	C	C6-N1-C2	5.06	122.33	120.30
36	5	668	G	C6-C5-N7	5.06	133.44	130.40
36	5	2375	G	O4'-C1'-N9	5.06	112.25	108.20
1	2	1165	G	C8-N9-C4	5.06	108.42	106.40
1	2	1220	C	C6-N1-C2	-5.06	118.28	120.30
1	2	1550	A	C6-C5-N7	-5.06	128.76	132.30
36	1	67	A	C8-N9-C4	5.06	107.83	105.80
36	1	267	G	C8-N9-C1'	5.06	133.58	127.00
36	1	513	G	C5-C6-N1	-5.06	108.97	111.50
36	1	1142	G	O5'-P-OP2	-5.06	101.14	105.70
36	1	1863	G	C4-C5-N7	5.06	112.83	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2280	A	C5'-C4'-O4'	5.06	115.17	109.10
36	1	2519	A	C8-N9-C4	-5.06	103.78	105.80
36	1	2882	U	O4'-C1'-N1	5.06	112.25	108.20
1	6	250	C	C6-N1-C1'	-5.06	114.72	120.80
1	6	253	A	C4-C5-C6	-5.06	114.47	117.00
1	6	957	G	C5-C6-O6	-5.06	125.56	128.60
1	6	1301	U	C5-C4-O4	-5.06	122.86	125.90
1	6	1304	G	C4-C5-N7	-5.06	108.78	110.80
1	6	1717	G	C5-C6-O6	-5.06	125.56	128.60
1	6	1732	A	N3-C4-N9	-5.06	123.35	127.40
36	5	303	G	N3-C4-N9	5.06	129.04	126.00
36	5	340	C	N1-C2-O2	-5.06	115.86	118.90
36	5	652	G	N3-C2-N2	5.06	123.44	119.90
36	5	682	U	N3-C4-C5	-5.06	111.56	114.60
36	5	683	U	N3-C4-O4	5.06	122.94	119.40
36	5	832	G	P-O3'-C3'	-5.06	113.62	119.70
36	5	835	G	C6-C5-N7	5.06	133.44	130.40
36	5	1048	A	N1-C2-N3	5.06	131.83	129.30
36	5	1382	G	C5-C6-O6	-5.06	125.56	128.60
36	5	1447	G	N3-C4-C5	5.06	131.13	128.60
36	5	1484	U	N1-C2-O2	-5.06	119.26	122.80
36	5	1947	G	N1-C2-N2	-5.06	111.64	116.20
36	5	2119	A	N9-C4-C5	-5.06	103.78	105.80
36	5	2379	U	O5'-P-OP1	5.06	116.78	110.70
36	5	2905	U	OP1-P-OP2	-5.06	112.01	119.60
37	7	76	A	C8-N9-C4	5.06	107.83	105.80
36	1	73	C	N3-C4-N4	5.06	121.54	118.00
36	1	876	A	C4-C5-C6	5.06	119.53	117.00
36	1	1166	G	C5-C6-O6	-5.06	125.56	128.60
46	L9	23	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	6	139	C	P-O3'-C3'	5.06	125.77	119.70
1	6	342	C	N3-C4-N4	5.06	121.54	118.00
36	5	1127	G	C5-C6-N1	5.06	114.03	111.50
36	5	1869	C	N3-C4-C5	-5.06	119.88	121.90
36	5	1871	U	N3-C4-O4	5.06	122.94	119.40
36	1	592	A	O5'-P-OP1	-5.06	101.15	105.70
36	1	686	G	C8-N9-C4	-5.06	104.38	106.40
36	1	954	U	N3-C2-O2	5.06	125.74	122.20
36	1	1176	C	N3-C2-O2	5.06	125.44	121.90
36	1	1319	G	N3-C2-N2	5.06	123.44	119.90
36	1	1380	G	N3-C4-N9	-5.06	122.96	126.00
36	1	1911	A	C6-N1-C2	-5.06	115.56	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	158	U	N1-C2-N3	5.06	117.94	114.90
1	6	301	A	C4-C5-N7	-5.06	108.17	110.70
1	6	440	U	P-O3'-C3'	5.06	125.77	119.70
1	6	557	G	C3'-C2'-C1'	5.06	105.55	101.50
1	6	814	A	O5'-P-OP2	-5.06	101.15	105.70
1	6	1113	A	C6-N1-C2	-5.06	115.56	118.60
1	6	1165	G	OP2-P-O3'	5.06	116.33	105.20
1	6	1640	C	C5-C4-N4	-5.06	116.66	120.20
36	5	1209	G	C6-C5-N7	-5.06	127.36	130.40
36	5	1307	G	C5-N7-C8	-5.06	101.77	104.30
36	5	2303	A	N3-C4-C5	5.06	130.34	126.80
36	5	2801	A	O5'-P-OP1	-5.06	101.15	105.70
36	5	2899	C	N1-C2-N3	5.06	122.74	119.20
1	2	1595	U	OP1-P-O3'	5.06	116.33	105.20
1	2	1645	G	N1-C6-O6	-5.06	116.86	119.90
36	1	41	G	C6-C5-N7	5.06	133.43	130.40
36	1	63	A	N9-C4-C5	-5.06	103.78	105.80
36	1	77	A	OP2-P-O3'	5.06	116.33	105.20
36	1	193	C	C2-N3-C4	5.06	122.43	119.90
36	1	213	A	N9-C1'-C2'	-5.06	106.44	112.00
36	1	364	G	C4-C5-N7	5.06	112.82	110.80
36	1	571	U	C6-N1-C2	-5.06	117.97	121.00
36	1	663	C	O5'-P-OP2	-5.06	101.15	105.70
36	1	1512	U	OP1-P-O3'	-5.06	94.07	105.20
36	1	1774	C	C6-N1-C1'	-5.06	114.73	120.80
36	1	1796	G	N9-C4-C5	5.06	107.42	105.40
36	1	1876	U	N1-C2-N3	5.06	117.94	114.90
36	1	1906	G	C8-N9-C4	5.06	108.42	106.40
36	1	2723	U	N1-C2-N3	5.06	117.93	114.90
36	1	2825	C	N3-C4-N4	5.06	121.54	118.00
38	4	21	C	N3-C4-C5	5.06	123.92	121.90
1	6	627	C	C6-N1-C2	5.06	122.32	120.30
36	5	209	A	C8-N9-C4	5.06	107.82	105.80
36	5	564	G	C4-N9-C1'	5.06	133.08	126.50
36	5	658	G	C5-N7-C8	-5.06	101.77	104.30
36	5	785	G	N9-C4-C5	5.06	107.42	105.40
36	5	1173	U	O5'-P-OP2	-5.06	101.15	105.70
36	5	1293	U	C6-N1-C2	5.06	124.03	121.00
36	5	1302	A	OP2-P-O3'	5.06	116.33	105.20
36	5	1311	G	C6-C5-N7	-5.06	127.36	130.40
36	5	1381	A	C4-C5-C6	5.06	119.53	117.00
36	5	1746	U	C5-C6-N1	5.06	125.23	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1879	A	OP1-P-OP2	-5.06	112.01	119.60
36	5	2349	U	C2-N1-C1'	5.06	123.77	117.70
36	5	3059	G	C5-C6-N1	5.06	114.03	111.50
36	5	3077	A	N3-C4-C5	5.06	130.34	126.80
36	1	912	G	N1-C2-N3	5.06	126.93	123.90
36	1	952	A	N7-C8-N9	5.06	116.33	113.80
36	1	1295	G	OP1-P-OP2	5.06	127.18	119.60
36	1	1328	C	C5-C6-N1	5.06	123.53	121.00
36	1	1458	U	C2-N3-C4	-5.06	123.97	127.00
36	1	1509	A	N1-C6-N6	5.06	121.63	118.60
36	1	1926	C	C4-C5-C6	5.06	119.93	117.40
36	1	2227	C	P-O3'-C3'	5.06	125.77	119.70
36	1	3316	A	N1-C6-N6	5.06	121.63	118.60
37	3	37	G	N9-C4-C5	-5.06	103.38	105.40
36	5	206	G	O5'-P-OP1	-5.06	101.15	105.70
36	5	735	A	C5-C6-N1	-5.06	115.17	117.70
36	5	2945	G	OP1-P-O3'	5.06	116.32	105.20
38	8	41	A	OP2-P-O3'	5.06	116.32	105.20
36	1	147	U	C4-C5-C6	5.05	122.73	119.70
36	1	291	C	C6-N1-C1'	5.05	126.86	120.80
36	1	733	G	C6-C5-N7	-5.05	127.37	130.40
36	1	917	A	C5'-C4'-O4'	5.05	115.17	109.10
36	1	1129	A	C5-N7-C8	-5.05	101.37	103.90
36	1	1947	G	C5-C6-O6	-5.05	125.57	128.60
36	1	2373	A	N3-C4-N9	-5.05	123.36	127.40
36	1	2660	G	C2-N3-C4	-5.05	109.37	111.90
36	1	2808	A	N9-C4-C5	-5.05	103.78	105.80
36	1	2855	U	C4-C5-C6	5.05	122.73	119.70
36	1	3121	U	OP1-P-O3'	5.05	116.32	105.20
1	6	159	U	N3-C2-O2	5.05	125.74	122.20
1	6	754	A	C5-C6-N1	5.05	120.23	117.70
1	6	829	A	P-O3'-C3'	5.05	125.77	119.70
18	c6	116	LEU	N-CA-C	5.05	124.65	111.00
36	5	366	A	C4-C5-C6	5.05	119.53	117.00
36	5	415	G	C4-C5-N7	5.05	112.82	110.80
36	5	816	A	O5'-P-OP1	5.05	116.77	110.70
36	5	1044	U	O5'-P-OP2	-5.05	101.15	105.70
36	5	1918	C	O4'-C1'-N1	5.05	112.24	108.20
36	5	2645	G	C5-C6-N1	5.05	114.03	111.50
36	5	2735	U	C4-C5-C6	5.05	122.73	119.70
36	5	2948	C	C4-C5-C6	-5.05	114.87	117.40
36	5	2953	U	N1-C2-N3	-5.05	111.87	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3041	U	OP1-P-OP2	5.05	127.18	119.60
38	8	38	U	C4-C5-C6	5.05	122.73	119.70
1	2	453	U	N1-C2-O2	5.05	126.34	122.80
36	1	182	U	C6-N1-C1'	5.05	128.27	121.20
36	1	1025	A	C8-N9-C4	-5.05	103.78	105.80
36	1	1461	A	C4-C5-N7	5.05	113.23	110.70
1	6	425	A	C4-C5-C6	-5.05	114.47	117.00
1	6	1001	A	N3-C4-C5	-5.05	123.26	126.80
1	6	1171	A	C5-C6-N6	5.05	127.74	123.70
1	6	1286	U	C5-C6-N1	-5.05	120.17	122.70
36	5	694	C	N3-C4-C5	5.05	123.92	121.90
36	5	955	U	OP2-P-O3'	5.05	116.32	105.20
36	5	2875	U	O5'-P-OP2	-5.05	101.15	105.70
40	l3	240	ARG	CG-CD-NE	-5.05	101.19	111.80
1	2	370	A	N1-C6-N6	-5.05	115.57	118.60
1	2	771	A	N7-C8-N9	5.05	116.33	113.80
1	2	1363	U	O4'-C1'-N1	5.05	112.24	108.20
36	1	198	A	C4-C5-C6	5.05	119.53	117.00
36	1	1002	A	C6-C5-N7	5.05	135.84	132.30
36	1	1205	A	C5-C6-N6	-5.05	119.66	123.70
36	1	1670	C	N3-C2-O2	5.05	125.44	121.90
36	1	1682	U	O5'-P-OP1	-5.05	101.15	105.70
36	1	1839	A	N1-C2-N3	5.05	131.83	129.30
36	1	2891	U	N1-C2-O2	-5.05	119.26	122.80
36	1	2920	U	OP2-P-O3'	5.05	116.31	105.20
36	1	3325	G	C5-N7-C8	5.05	106.83	104.30
37	3	3	U	OP1-P-OP2	5.05	127.18	119.60
41	L4	325	LEU	CA-CB-CG	-5.05	103.68	115.30
1	6	153	G	O5'-P-OP2	5.05	116.76	110.70
36	5	93	C	C6-N1-C2	5.05	122.32	120.30
36	5	197	G	C6-N1-C2	5.05	128.13	125.10
36	5	386	A	C5-N7-C8	5.05	106.43	103.90
36	5	1196	C	C2-N1-C1'	-5.05	113.24	118.80
36	5	1888	U	N1-C1'-C2'	-5.05	106.44	112.00
36	5	2161	G	O5'-P-OP2	5.05	116.76	110.70
36	5	2304	C	C5-C4-N4	-5.05	116.66	120.20
36	5	2964	G	C5-C6-O6	5.05	131.63	128.60
36	5	3054	U	N3-C2-O2	5.05	125.74	122.20
36	5	3331	U	O5'-P-OP1	-5.05	101.15	105.70
1	2	862	A	C8-N9-C4	5.05	107.82	105.80
36	1	64	G	OP2-P-O3'	5.05	116.31	105.20
36	1	151	A	C6-C5-N7	-5.05	128.76	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	694	C	N3-C4-C5	5.05	123.92	121.90
36	1	931	C	C6-N1-C2	-5.05	118.28	120.30
36	1	1381	A	C5-C6-N1	-5.05	115.17	117.70
36	1	1724	U	N3-C2-O2	-5.05	118.67	122.20
36	1	2249	G	C5-C6-O6	5.05	131.63	128.60
36	1	2309	A	C4-C5-N7	5.05	113.22	110.70
36	1	2969	A	N3-C4-N9	-5.05	123.36	127.40
36	1	3209	A	C6-N1-C2	5.05	121.63	118.60
36	1	3271	G	N1-C6-O6	-5.05	116.87	119.90
1	6	19	A	C4-C5-C6	5.05	119.53	117.00
1	6	66	U	OP1-P-O3'	5.05	116.31	105.20
1	6	176	C	C5-C6-N1	5.05	123.52	121.00
1	6	357	G	C5-C6-O6	-5.05	125.57	128.60
1	6	1017	U	OP1-P-O3'	5.05	116.31	105.20
1	6	1115	U	N3-C4-C5	5.05	117.63	114.60
36	5	350	C	N1-C2-O2	5.05	121.93	118.90
36	5	589	A	C4-C5-C6	5.05	119.53	117.00
36	5	985	U	O5'-P-OP1	5.05	116.76	110.70
36	5	2585	G	C2-N3-C4	5.05	114.42	111.90
36	5	3134	A	C6-N1-C2	-5.05	115.57	118.60
37	7	2	G	C4-C5-N7	-5.05	108.78	110.80
51	m5	38	ARG	NE-CZ-NH1	-5.05	117.78	120.30
36	1	1429	G	C5-C6-N1	-5.05	108.98	111.50
36	1	3101	G	C5-C6-O6	-5.05	125.57	128.60
36	1	3341	U	C5-C4-O4	5.05	128.93	125.90
38	4	10	A	C4-C5-N7	-5.05	108.18	110.70
1	6	784	C	N3-C4-C5	-5.05	119.88	121.90
1	6	1169	G	N1-C6-O6	-5.05	116.87	119.90
36	5	1170	A	C5-C6-N1	-5.05	115.18	117.70
36	5	1519	G	C5-C6-O6	-5.05	125.57	128.60
36	5	1836	C	C6-N1-C2	-5.05	118.28	120.30
1	2	61	A	C5-N7-C8	-5.05	101.38	103.90
1	2	581	U	C6-N1-C1'	-5.05	114.14	121.20
1	2	1355	C	C6-N1-C2	-5.05	118.28	120.30
1	2	1517	U	C4-C5-C6	5.05	122.73	119.70
36	1	589	A	C5-C6-N1	5.05	120.22	117.70
36	1	2361	A	N7-C8-N9	-5.05	111.28	113.80
36	1	2513	U	P-O3'-C3'	5.05	125.76	119.70
36	1	2877	G	N3-C4-C5	5.05	131.12	128.60
1	6	687	G	N3-C2-N2	-5.05	116.37	119.90
1	6	1007	C	C2-N3-C4	-5.05	117.38	119.90
1	6	1438	G	C4-C5-N7	5.05	112.82	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	578	A	N3-C4-N9	-5.05	123.36	127.40
36	5	591	G	N1-C2-N2	-5.05	111.66	116.20
36	5	716	A	OP2-P-O3'	5.05	116.30	105.20
36	5	1634	G	C4-N9-C1'	5.05	133.06	126.50
36	5	1791	C	C5-C4-N4	-5.05	116.67	120.20
36	5	2225	U	C2-N1-C1'	5.05	123.76	117.70
36	1	842	G	C4-C5-C6	5.04	121.83	118.80
36	1	1552	G	N3-C4-C5	-5.04	126.08	128.60
36	1	2379	U	OP2-P-O3'	5.04	116.30	105.20
1	6	102	U	C2-N3-C4	-5.04	123.97	127.00
1	6	558	U	C6-N1-C1'	-5.04	114.14	121.20
1	6	1001	A	C4-N9-C1'	5.04	135.38	126.30
1	6	1746	A	C6-C5-N7	5.04	135.83	132.30
36	5	567	G	C5-C6-O6	-5.04	125.57	128.60
36	5	2206	G	C8-N9-C4	5.04	108.42	106.40
36	5	3147	G	N1-C6-O6	5.04	122.93	119.90
1	2	401	A	C5-C6-N6	-5.04	119.67	123.70
1	2	1268	G	N1-C6-O6	-5.04	116.87	119.90
36	1	313	A	C5-C6-N6	-5.04	119.66	123.70
36	1	694	C	C2-N3-C4	-5.04	117.38	119.90
36	1	889	U	N3-C4-C5	-5.04	111.57	114.60
36	1	968	G	C8-N9-C1'	-5.04	120.44	127.00
36	1	1199	C	C4-C5-C6	5.04	119.92	117.40
36	1	1636	U	C6-N1-C2	-5.04	117.97	121.00
36	1	2302	G	N3-C4-C5	-5.04	126.08	128.60
36	1	2310	U	N3-C2-O2	-5.04	118.67	122.20
36	1	2406	C	C5-C6-N1	5.04	123.52	121.00
1	6	179	A	N9-C4-C5	5.04	107.82	105.80
36	5	777	U	OP1-P-OP2	5.04	127.17	119.60
36	5	1057	A	C8-N9-C4	5.04	107.82	105.80
36	5	1308	A	C4-C5-C6	-5.04	114.48	117.00
36	5	1336	U	N1-C2-O2	-5.04	119.27	122.80
36	5	1400	G	C4-N9-C1'	5.04	133.06	126.50
36	5	2140	U	N3-C4-O4	5.04	122.93	119.40
1	2	402	C	N3-C4-N4	5.04	121.53	118.00
1	2	775	G	C6-C5-N7	-5.04	127.38	130.40
1	2	1010	C	O5'-P-OP1	5.04	116.75	110.70
1	2	1015	U	C5-C4-O4	5.04	128.93	125.90
36	1	166	C	C6-N1-C2	-5.04	118.28	120.30
36	1	349	A	C4-C5-N7	-5.04	108.18	110.70
36	1	690	A	N1-C6-N6	-5.04	115.58	118.60
36	1	769	G	OP1-P-OP2	5.04	127.16	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1146	C	N3-C4-N4	5.04	121.53	118.00
36	1	2127	U	N1-C2-N3	-5.04	111.88	114.90
36	1	2342	U	C5-C6-N1	-5.04	120.18	122.70
36	1	2555	G	C2-N3-C4	-5.04	109.38	111.90
36	1	2699	G	N1-C2-N2	5.04	120.74	116.20
36	1	2805	G	N1-C6-O6	-5.04	116.88	119.90
36	1	2916	U	OP2-P-O3'	5.04	116.29	105.20
36	1	3128	G	OP2-P-O3'	5.04	116.29	105.20
37	3	50	U	C5-C6-N1	5.04	125.22	122.70
1	6	1367	G	N3-C4-N9	5.04	129.03	126.00
1	6	1542	G	N3-C4-N9	5.04	129.03	126.00
1	6	1652	C	C6-N1-C2	-5.04	118.28	120.30
36	5	516	A	C5-C6-N6	-5.04	119.67	123.70
36	5	647	A	N1-C2-N3	5.04	131.82	129.30
36	5	751	A	C5-C6-N1	5.04	120.22	117.70
36	5	1112	A	N1-C6-N6	5.04	121.62	118.60
36	5	2958	A	N1-C2-N3	5.04	131.82	129.30
36	5	3286	G	C5-C6-O6	-5.04	125.58	128.60
38	8	85	G	C5-C6-O6	-5.04	125.58	128.60
36	1	506	U	N1-C2-N3	5.04	117.92	114.90
36	1	1198	C	N3-C4-C5	-5.04	119.88	121.90
1	6	1751	C	C6-N1-C2	5.04	122.32	120.30
36	5	89	A	O5'-P-OP2	-5.04	101.16	105.70
36	5	1425	U	C2-N3-C4	-5.04	123.98	127.00
36	5	1545	A	C6-C5-N7	-5.04	128.77	132.30
36	5	2135	U	C5-C6-N1	-5.04	120.18	122.70
36	5	2347	U	OP2-P-O3'	5.04	116.29	105.20
1	2	152	U	N1-C2-O2	5.04	126.33	122.80
1	2	1583	A	C4-C5-N7	-5.04	108.18	110.70
36	1	211	A	C2-N3-C4	-5.04	108.08	110.60
36	1	677	A	N1-C2-N3	-5.04	126.78	129.30
36	1	695	C	N1-C2-O2	5.04	121.92	118.90
36	1	1939	G	C4-N9-C1'	5.04	133.05	126.50
36	1	2381	G	C6-N1-C2	-5.04	122.08	125.10
36	1	2635	A	N1-C6-N6	-5.04	115.58	118.60
36	1	2829	U	N1-C2-N3	5.04	117.92	114.90
1	6	448	C	N1-C2-N3	5.04	122.73	119.20
1	6	635	A	OP2-P-O3'	5.04	116.29	105.20
1	6	1108	G	N3-C4-N9	-5.04	122.98	126.00
1	6	1188	G	N1-C6-O6	-5.04	116.88	119.90
1	6	1773	C	C5-C6-N1	5.04	123.52	121.00
36	5	1191	U	N1-C2-O2	-5.04	119.27	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1382	G	N3-C4-C5	5.04	131.12	128.60
36	5	2191	U	N1-C2-N3	5.04	117.92	114.90
36	5	2598	G	C6-C5-N7	-5.04	127.38	130.40
36	5	2841	G	N3-C4-C5	-5.04	126.08	128.60
36	5	3086	A	O5'-P-OP2	5.04	116.75	110.70
36	5	3131	U	N3-C4-O4	-5.04	115.87	119.40
53	m7	67	ILE	CG1-CB-CG2	-5.04	100.31	111.40
1	2	298	C	C6-N1-C2	5.04	122.31	120.30
1	2	1636	C	C5-C6-N1	5.04	123.52	121.00
36	1	709	A	N9-C1'-C2'	-5.04	106.46	112.00
36	1	804	C	N3-C2-O2	-5.04	118.37	121.90
36	1	1157	G	N3-C2-N2	-5.04	116.37	119.90
36	1	1708	C	C5-C6-N1	-5.04	118.48	121.00
1	6	1007	C	C2-N1-C1'	-5.04	113.26	118.80
36	5	3	U	N3-C2-O2	-5.04	118.67	122.20
36	5	1114	U	C5-C6-N1	5.04	125.22	122.70
36	5	1137	C	C6-N1-C1'	-5.04	114.76	120.80
36	5	1345	G	C6-C5-N7	-5.04	127.38	130.40
36	5	1377	G	N3-C4-N9	-5.04	122.98	126.00
36	5	2853	A	C8-N9-C4	5.04	107.81	105.80
36	5	3013	U	N1-C2-O2	5.04	126.33	122.80
36	5	3317	U	N3-C4-O4	-5.04	115.87	119.40
1	2	915	A	C5-N7-C8	-5.04	101.38	103.90
1	2	1146	G	C4-C5-N7	5.04	112.81	110.80
1	2	1339	C	P-O3'-C3'	5.04	125.74	119.70
1	2	1583	A	N9-C4-C5	5.04	107.81	105.80
36	1	227	G	C6-N1-C2	-5.04	122.08	125.10
36	1	642	U	N3-C4-O4	5.04	122.92	119.40
36	1	955	U	C5-C6-N1	-5.04	120.18	122.70
36	1	1043	C	C2-N1-C1'	-5.04	113.26	118.80
36	1	1435	A	N3-C4-C5	-5.04	123.28	126.80
36	1	1497	C	C2-N3-C4	5.04	122.42	119.90
38	4	38	U	N1-C2-O2	5.04	126.33	122.80
1	6	194	U	C6-N1-C1'	-5.04	114.15	121.20
1	6	769	A	N1-C6-N6	5.04	121.62	118.60
1	6	1021	C	OP1-P-O3'	5.04	116.28	105.20
1	6	1387	G	N3-C4-C5	-5.04	126.08	128.60
36	5	503	C	N1-C2-O2	-5.04	115.88	118.90
36	5	640	U	N3-C2-O2	5.04	125.72	122.20
36	5	806	A	C5-C6-N1	-5.04	115.18	117.70
36	5	1431	G	C8-N9-C1'	-5.04	120.45	127.00
36	5	1478	C	C2-N3-C4	5.04	122.42	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1675	G	N3-C2-N2	5.04	123.42	119.90
36	5	2601	A	C2-N3-C4	5.04	113.12	110.60
36	5	3086	A	C8-N9-C4	5.04	107.81	105.80
36	5	3241	G	C8-N9-C4	5.04	108.41	106.40
38	8	7	U	OP1-P-OP2	5.04	127.15	119.60
1	2	115	G	N1-C2-N2	-5.03	111.67	116.20
1	2	597	G	O5'-P-OP2	5.03	116.74	110.70
1	2	1083	G	N3-C4-N9	5.03	129.02	126.00
1	2	1747	G	C5-C6-O6	5.03	131.62	128.60
36	1	74	G	C8-N9-C4	-5.03	104.39	106.40
36	1	591	G	OP1-P-O3'	5.03	116.27	105.20
36	1	779	G	P-O3'-C3'	5.03	125.74	119.70
36	1	1527	C	N1-C2-O2	-5.03	115.88	118.90
36	1	1544	G	C8-N9-C4	5.03	108.41	106.40
36	1	2195	C	C5-C4-N4	-5.03	116.68	120.20
36	1	2829	U	N3-C4-C5	-5.03	111.58	114.60
36	1	3101	G	C2-N3-C4	5.03	114.42	111.90
36	1	3214	U	N1-C2-N3	5.03	117.92	114.90
36	1	3344	A	C8-N9-C4	-5.03	103.79	105.80
1	6	327	U	OP2-P-O3'	5.03	116.27	105.20
1	6	750	U	C2-N1-C1'	-5.03	111.66	117.70
1	6	1241	G	C8-N9-C4	-5.03	104.39	106.40
36	5	1131	G	C6-C5-N7	-5.03	127.38	130.40
36	5	1209	G	C8-N9-C4	-5.03	104.39	106.40
36	5	1513	G	N1-C6-O6	5.03	122.92	119.90
36	5	1606	U	C4-C5-C6	5.03	122.72	119.70
36	5	1886	A	C4-C5-C6	5.03	119.52	117.00
36	5	2320	A	N1-C6-N6	5.03	121.62	118.60
36	5	2861	U	N3-C4-O4	5.03	122.92	119.40
36	5	2979	U	C2-N3-C4	-5.03	123.98	127.00
36	5	3012	A	C6-C5-N7	-5.03	128.78	132.30
36	5	3095	U	N3-C4-C5	-5.03	111.58	114.60
36	5	3237	U	N3-C2-O2	5.03	125.72	122.20
38	8	12	A	C2-N3-C4	5.03	113.12	110.60
1	2	351	C	C5-C4-N4	5.03	123.72	120.20
1	2	398	G	C4-N9-C1'	5.03	133.04	126.50
36	1	862	U	C2-N1-C1'	5.03	123.74	117.70
36	1	962	A	C2-N3-C4	-5.03	108.08	110.60
36	1	1786	G	C5-C6-O6	-5.03	125.58	128.60
36	1	2294	U	O5'-P-OP2	-5.03	101.17	105.70
36	1	2585	G	N3-C4-C5	-5.03	126.08	128.60
36	1	2710	C	C5-C4-N4	-5.03	116.68	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2902	A	N7-C8-N9	-5.03	111.28	113.80
1	6	167	U	N3-C2-O2	5.03	125.72	122.20
1	6	764	U	N1-C2-N3	5.03	117.92	114.90
36	5	2703	A	N1-C2-N3	5.03	131.82	129.30
36	5	3324	C	OP1-P-O3'	-5.03	94.13	105.20
37	7	41	G	C5-C6-N1	-5.03	108.98	111.50
37	7	50	U	C6-N1-C2	-5.03	117.98	121.00
1	2	106	U	O5'-P-OP1	-5.03	101.17	105.70
1	2	429	G	N1-C6-O6	5.03	122.92	119.90
1	2	595	G	C4-C5-N7	-5.03	108.79	110.80
1	2	1408	G	C8-N9-C1'	5.03	133.54	127.00
1	2	1730	A	OP2-P-O3'	5.03	116.27	105.20
36	1	287	G	C8-N9-C4	-5.03	104.39	106.40
36	1	377	A	C4-C5-N7	5.03	113.22	110.70
36	1	626	U	N1-C2-O2	-5.03	119.28	122.80
36	1	635	G	N9-C4-C5	-5.03	103.39	105.40
36	1	697	A	O5'-P-OP1	-5.03	101.17	105.70
36	1	985	U	O5'-P-OP1	-5.03	101.17	105.70
36	1	1293	U	C6-N1-C2	5.03	124.02	121.00
36	1	3141	A	C2-N3-C4	-5.03	108.08	110.60
36	1	3244	A	C4-C5-C6	5.03	119.52	117.00
1	6	480	G	C6-C5-N7	-5.03	127.38	130.40
1	6	945	U	C5-C6-N1	-5.03	120.19	122.70
1	6	1248	C	N1-C2-O2	5.03	121.92	118.90
1	6	1786	G	C6-C5-N7	5.03	133.42	130.40
36	5	148	G	N1-C6-O6	5.03	122.92	119.90
36	5	645	A	O4'-C1'-N9	-5.03	104.18	108.20
36	5	769	G	O5'-P-OP1	-5.03	101.17	105.70
36	5	816	A	N3-C4-C5	-5.03	123.28	126.80
36	5	1863	G	C6-N1-C2	-5.03	122.08	125.10
36	5	2271	A	N1-C6-N6	5.03	121.62	118.60
36	5	3179	U	O4'-C1'-N1	-5.03	104.17	108.20
37	7	30	G	N9-C1'-C2'	-5.03	106.47	112.00
37	7	107	C	N3-C4-N4	-5.03	114.48	118.00
1	2	934	C	N1-C2-O2	5.03	121.92	118.90
36	1	715	A	C8-N9-C4	-5.03	103.79	105.80
36	1	1834	U	C5-C6-N1	-5.03	120.19	122.70
36	1	2326	A	N9-C4-C5	5.03	107.81	105.80
36	1	2635	A	C5-C6-N1	-5.03	115.19	117.70
36	1	2944	U	C4-C5-C6	-5.03	116.68	119.70
36	5	433	A	OP2-P-O3'	5.03	116.26	105.20
36	5	2814	G	N9-C4-C5	-5.03	103.39	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2904	U	C5-C6-N1	-5.03	120.19	122.70
37	7	121	U	N3-C2-O2	-5.03	118.68	122.20
1	2	553	G	C5-C6-N1	-5.03	108.99	111.50
1	2	1027	A	N9-C4-C5	5.03	107.81	105.80
1	2	1299	G	N3-C2-N2	5.03	123.42	119.90
1	2	1332	C	N1-C2-O2	5.03	121.92	118.90
36	1	26	A	N1-C6-N6	5.03	121.62	118.60
36	1	158	G	C2-N3-C4	-5.03	109.39	111.90
36	1	392	G	C5-N7-C8	-5.03	101.79	104.30
36	1	927	C	OP1-P-O3'	-5.03	94.14	105.20
36	1	2134	G	C8-N9-C1'	-5.03	120.46	127.00
36	1	2157	G	N3-C4-C5	-5.03	126.09	128.60
36	1	2521	U	N3-C4-C5	5.03	117.62	114.60
36	1	3121	U	N1-C2-N3	5.03	117.92	114.90
1	6	906	A	C4-C5-C6	-5.03	114.49	117.00
1	6	977	A	C5-N7-C8	-5.03	101.39	103.90
1	6	1412	G	N3-C4-N9	-5.03	122.98	126.00
1	6	1664	C	N3-C4-N4	5.03	121.52	118.00
1	6	1745	G	N3-C4-C5	-5.03	126.09	128.60
19	c7	100	LEU	CA-CB-CG	5.03	126.86	115.30
36	5	1133	A	C6-C5-N7	-5.03	128.78	132.30
36	5	1175	C	N1-C2-O2	-5.03	115.88	118.90
36	5	1190	A	C5-C6-N6	-5.03	119.68	123.70
36	5	1206	G	C6-N1-C2	-5.03	122.08	125.10
36	5	1224	C	O5'-P-OP1	-5.03	101.17	105.70
36	5	1348	U	C5'-C4'-O4'	5.03	115.13	109.10
36	5	1690	C	N3-C4-C5	-5.03	119.89	121.90
36	5	2643	A	C4-C5-C6	-5.03	114.49	117.00
36	5	3006	A	C5-C6-N6	5.03	127.72	123.70
1	2	370	A	C5-N7-C8	5.03	106.41	103.90
1	2	1757	G	O4'-C1'-N9	-5.03	104.18	108.20
36	1	369	A	N3-C4-C5	-5.03	123.28	126.80
36	1	525	C	C6-N1-C2	5.03	122.31	120.30
36	1	593	C	N1-C2-O2	5.03	121.92	118.90
36	1	1838	G	C4-N9-C1'	5.03	133.03	126.50
36	1	2314	U	O5'-P-OP1	5.03	116.73	110.70
36	1	2796	G	OP1-P-OP2	5.03	127.14	119.60
36	1	2902	A	C4-C5-N7	-5.03	108.19	110.70
36	1	2956	A	C4-C5-N7	5.03	113.21	110.70
36	1	3134	A	C6-N1-C2	-5.03	115.58	118.60
36	1	3276	G	O4'-C1'-N9	-5.03	104.18	108.20
1	6	395	U	N3-C4-C5	-5.03	111.58	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	579	A	P-O3'-C3'	5.03	125.73	119.70
1	6	607	G	C5-C6-O6	5.03	131.62	128.60
1	6	1218	G	C4-N9-C1'	-5.03	119.97	126.50
1	6	1478	G	N3-C2-N2	5.03	123.42	119.90
1	6	1493	A	N3-C4-C5	5.03	130.32	126.80
1	6	1661	U	C6-N1-C2	5.03	124.02	121.00
36	5	416	A	C5-N7-C8	-5.03	101.39	103.90
36	5	986	U	N1-C2-N3	5.03	117.92	114.90
36	5	1065	A	C2-N3-C4	-5.03	108.09	110.60
36	5	2954	U	C6-N1-C2	5.03	124.02	121.00
36	5	3006	A	C4-C5-N7	-5.03	108.19	110.70
38	8	87	G	C4-N9-C1'	5.03	133.03	126.50
1	2	1321	A	N1-C6-N6	-5.02	115.59	118.60
36	1	269	G	C8-N9-C1'	5.02	133.53	127.00
36	1	326	U	C4-C5-C6	5.02	122.72	119.70
36	1	567	G	N9-C4-C5	5.02	107.41	105.40
36	1	699	A	C8-N9-C1'	5.02	136.74	127.70
36	1	849	C	OP2-P-O3'	5.02	116.25	105.20
36	5	180	C	N1-C2-O2	5.02	121.91	118.90
36	5	857	G	N1-C2-N3	5.02	126.91	123.90
1	2	1419	G	C8-N9-C1'	-5.02	120.47	127.00
36	1	209	A	N9-C4-C5	5.02	107.81	105.80
36	1	401	U	N1-C2-O2	5.02	126.32	122.80
36	1	605	U	N3-C2-O2	-5.02	118.68	122.20
36	1	1453	A	C6-C5-N7	-5.02	128.78	132.30
36	1	1819	U	C2-N1-C1'	5.02	123.73	117.70
36	1	2520	A	N1-C6-N6	5.02	121.61	118.60
36	1	3240	C	C5-C6-N1	-5.02	118.49	121.00
37	3	3	U	OP1-P-O3'	5.02	116.25	105.20
37	3	49	G	O4'-C1'-N9	5.02	112.22	108.20
36	5	819	U	N3-C2-O2	5.02	125.72	122.20
36	5	1165	A	N9-C4-C5	5.02	107.81	105.80
36	5	1519	G	N3-C2-N2	-5.02	116.38	119.90
36	5	1617	G	N1-C6-O6	5.02	122.91	119.90
36	5	1704	A	O5'-P-OP1	-5.02	101.18	105.70
36	5	3098	G	N1-C2-N2	-5.02	111.68	116.20
36	5	3220	G	O5'-P-OP2	-5.02	101.18	105.70
37	7	121	U	O4'-C1'-N1	-5.02	104.18	108.20
1	2	1189	A	C8-N9-C4	5.02	107.81	105.80
1	2	1455	G	C5-N7-C8	5.02	106.81	104.30
36	1	625	G	C5-N7-C8	5.02	106.81	104.30
36	1	1362	G	OP2-P-O3'	5.02	116.25	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3003	G	C5-C6-N1	5.02	114.01	111.50
38	4	86	U	N3-C4-O4	5.02	122.92	119.40
38	4	108	C	OP2-P-O3'	5.02	116.25	105.20
41	L4	244	LEU	CB-CG-CD2	-5.02	102.47	111.00
1	6	396	G	N3-C4-C5	-5.02	126.09	128.60
1	6	553	G	N1-C2-N3	-5.02	120.89	123.90
1	6	1093	A	N9-C4-C5	5.02	107.81	105.80
36	5	1886	A	C5-C6-N1	-5.02	115.19	117.70
36	5	2123	G	C5-C6-O6	5.02	131.61	128.60
36	5	2995	A	N1-C6-N6	5.02	121.61	118.60
1	2	401	A	N1-C6-N6	5.02	121.61	118.60
1	2	449	C	O4'-C1'-N1	5.02	112.22	108.20
1	2	608	U	C5-C4-O4	5.02	128.91	125.90
1	2	823	G	C5-C6-N1	5.02	114.01	111.50
1	2	1373	C	N3-C4-C5	-5.02	119.89	121.90
1	2	1670	G	C4-N9-C1'	5.02	133.03	126.50
36	1	211	A	C4-C5-C6	-5.02	114.49	117.00
36	1	224	C	OP1-P-OP2	-5.02	112.07	119.60
36	1	596	C	C5-C6-N1	-5.02	118.49	121.00
36	1	757	C	C4-C5-C6	5.02	119.91	117.40
36	1	973	A	N3-C4-C5	5.02	130.31	126.80
36	1	1322	U	N3-C4-C5	-5.02	111.59	114.60
36	1	1338	C	C5-C6-N1	5.02	123.51	121.00
36	1	1449	A	N1-C6-N6	-5.02	115.59	118.60
36	1	1518	U	C4-C5-C6	5.02	122.71	119.70
36	1	1795	U	O5'-P-OP1	-5.02	101.18	105.70
36	1	3103	A	C6-N1-C2	-5.02	115.59	118.60
36	1	3134	A	C5-C6-N1	5.02	120.21	117.70
36	1	3160	U	N3-C2-O2	-5.02	118.69	122.20
36	1	3245	A	C5-C6-N1	-5.02	115.19	117.70
37	3	97	A	C5-C6-N1	-5.02	115.19	117.70
1	6	455	C	O4'-C1'-N1	-5.02	104.18	108.20
1	6	586	G	C5-C6-O6	5.02	131.61	128.60
1	6	676	G	O4'-C1'-N9	5.02	112.22	108.20
36	5	45	A	C5-N7-C8	-5.02	101.39	103.90
36	5	201	A	O4'-C1'-N9	-5.02	104.18	108.20
36	5	326	U	N1-C2-O2	5.02	126.31	122.80
36	5	929	A	C8-N9-C4	5.02	107.81	105.80
36	5	1007	U	N1-C2-N3	-5.02	111.89	114.90
36	5	1311	G	N1-C6-O6	5.02	122.91	119.90
36	5	1312	C	N3-C2-O2	5.02	125.41	121.90
36	5	2114	C	N3-C4-N4	5.02	121.51	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2404	A	C2-N3-C4	5.02	113.11	110.60
36	5	2668	U	N3-C4-O4	5.02	122.91	119.40
36	5	2858	U	N1-C2-N3	5.02	117.91	114.90
38	8	108	C	OP2-P-O3'	5.02	116.24	105.20
1	2	73	U	C1'-O4'-C4'	-5.02	105.89	109.90
1	2	963	A	N1-C2-N3	-5.02	126.79	129.30
36	1	22	G	N3-C4-N9	-5.02	122.99	126.00
36	1	158	G	C5-C6-N1	-5.02	108.99	111.50
36	1	769	G	O5'-P-OP1	-5.02	101.19	105.70
36	1	1109	U	OP1-P-OP2	5.02	127.12	119.60
36	1	1259	A	N1-C6-N6	-5.02	115.59	118.60
36	1	1492	G	C8-N9-C4	-5.02	104.39	106.40
36	1	1849	C	O5'-P-OP1	-5.02	101.19	105.70
36	1	3098	G	O5'-P-OP2	-5.02	101.18	105.70
36	1	3126	C	C5-C4-N4	5.02	123.71	120.20
36	1	3280	U	C4-C5-C6	-5.02	116.69	119.70
37	3	85	G	C4-C5-N7	5.02	112.81	110.80
36	5	858	A	N1-C2-N3	5.02	131.81	129.30
36	5	1130	A	C5-N7-C8	-5.02	101.39	103.90
36	5	3068	U	C4-C5-C6	5.02	122.71	119.70
36	5	3094	A	C2-N3-C4	-5.02	108.09	110.60
1	2	57	G	N1-C2-N3	5.02	126.91	123.90
1	2	990	C	C5-C6-N1	5.02	123.51	121.00
36	1	1377	G	C2-N3-C4	-5.02	109.39	111.90
36	1	1764	U	C6-N1-C2	5.02	124.01	121.00
36	1	1849	C	C4-C5-C6	5.02	119.91	117.40
36	1	2326	A	N1-C6-N6	-5.02	115.59	118.60
36	1	2775	U	C5-C4-O4	5.02	128.91	125.90
1	6	1063	U	C5-C4-O4	-5.02	122.89	125.90
36	5	868	C	N3-C4-C5	-5.02	119.89	121.90
36	5	1320	C	OP2-P-O3'	5.02	116.23	105.20
36	5	1446	A	N1-C6-N6	-5.02	115.59	118.60
36	5	1725	C	N3-C4-C5	-5.02	119.89	121.90
36	5	2382	G	C4-C5-C6	-5.02	115.79	118.80
36	5	2805	G	C5-C6-N1	-5.02	108.99	111.50
1	2	337	G	OP1-P-O3'	5.01	116.23	105.20
1	2	794	U	C5-C6-N1	5.01	125.21	122.70
1	2	1200	G	N7-C8-N9	5.01	115.61	113.10
36	1	801	A	N9-C4-C5	-5.01	103.80	105.80
36	1	1167	U	C2-N3-C4	-5.01	123.99	127.00
36	1	1400	G	C8-N9-C1'	-5.01	120.48	127.00
36	1	1410	U	C5-C6-N1	5.01	125.21	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1474	A	OP1-P-OP2	-5.01	112.08	119.60
36	1	1933	A	C8-N9-C4	-5.01	103.79	105.80
36	1	2971	A	C2-N3-C4	5.01	113.11	110.60
36	1	3163	A	N9-C1'-C2'	-5.01	106.48	112.00
36	1	3382	U	N1-C2-O2	5.01	126.31	122.80
62	N6	53	ASP	CB-CG-OD1	-5.01	113.79	118.30
1	6	407	A	C8-N9-C4	5.01	107.81	105.80
1	6	565	C	C6-N1-C1'	-5.01	114.78	120.80
1	6	1077	C	N3-C4-C5	5.01	123.91	121.90
36	5	12	A	O5'-P-OP2	5.01	116.72	110.70
36	5	1246	G	N1-C6-O6	5.01	122.91	119.90
36	5	1513	G	OP1-P-O3'	5.01	116.23	105.20
36	5	2194	G	N1-C2-N2	-5.01	111.69	116.20
36	5	2401	A	OP2-P-O3'	5.01	116.23	105.20
36	5	2894	C	OP1-P-OP2	5.01	127.12	119.60
36	5	3326	G	N7-C8-N9	-5.01	110.59	113.10
46	19	34	LEU	CA-CB-CG	-5.01	103.77	115.30
1	2	1617	U	C2-N1-C1'	-5.01	111.69	117.70
36	1	156	G	C4-N9-C1'	5.01	133.02	126.50
36	1	772	U	C6-N1-C2	5.01	124.01	121.00
36	1	961	C	C2-N3-C4	5.01	122.41	119.90
36	1	1295	G	N1-C2-N2	-5.01	111.69	116.20
36	1	1353	U	C5-C4-O4	-5.01	122.89	125.90
36	1	2801	A	C5-N7-C8	-5.01	101.39	103.90
36	1	3370	A	N7-C8-N9	5.01	116.31	113.80
38	4	99	C	N1-C2-N3	-5.01	115.69	119.20
1	6	1202	A	N3-C4-C5	-5.01	123.29	126.80
1	6	1743	U	C4-C5-C6	5.01	122.71	119.70
36	5	936	A	N1-C2-N3	5.01	131.81	129.30
36	5	2763	U	N1-C2-O2	-5.01	119.29	122.80
1	2	626	U	N1-C2-N3	5.01	117.91	114.90
1	2	849	C	C2-N3-C4	5.01	122.41	119.90
36	1	275	U	C5-C4-O4	-5.01	122.89	125.90
36	1	347	G	N1-C2-N2	-5.01	111.69	116.20
36	1	1310	G	C6-N1-C2	-5.01	122.09	125.10
36	1	1485	G	C4-C5-N7	5.01	112.81	110.80
36	1	1759	C	C6-N1-C2	-5.01	118.30	120.30
36	1	2636	A	N3-C4-N9	-5.01	123.39	127.40
36	1	3288	G	O4'-C1'-N9	5.01	112.21	108.20
36	1	3325	G	N1-C2-N2	-5.01	111.69	116.20
37	3	37	G	N1-C6-O6	5.01	122.91	119.90
1	6	682	C	N1-C2-O2	-5.01	115.89	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	782	U	N1-C2-O2	5.01	126.31	122.80
1	6	862	A	P-O3'-C3'	5.01	125.71	119.70
1	6	1180	C	O5'-P-OP1	-5.01	101.19	105.70
1	6	1246	C	N3-C2-O2	-5.01	118.39	121.90
36	5	252	U	C5-C6-N1	5.01	125.20	122.70
36	5	668	G	C5-C6-O6	5.01	131.61	128.60
36	5	908	G	N7-C8-N9	5.01	115.61	113.10
36	5	1214	U	OP2-P-O3'	5.01	116.23	105.20
36	5	2252	A	N1-C6-N6	-5.01	115.59	118.60
36	5	2594	C	C2-N1-C1'	5.01	124.31	118.80
36	5	2609	A	C5-C6-N6	-5.01	119.69	123.70
36	5	2703	A	C5-C6-N1	-5.01	115.19	117.70
36	5	2704	A	OP1-P-OP2	5.01	127.12	119.60
36	5	2991	A	C8-N9-C4	-5.01	103.80	105.80
36	5	3226	A	N1-C6-N6	-5.01	115.59	118.60
36	5	3378	C	C6-N1-C1'	-5.01	114.79	120.80
37	7	114	U	N3-C4-O4	5.01	122.91	119.40
38	8	30	C	N3-C2-O2	-5.01	118.39	121.90
1	2	334	G	N1-C2-N2	5.01	120.71	116.20
1	2	571	G	C8-N9-C1'	5.01	133.51	127.00
1	2	909	U	C6-N1-C2	5.01	124.01	121.00
1	2	1112	G	C4-C5-N7	5.01	112.80	110.80
1	2	1199	G	N3-C2-N2	-5.01	116.39	119.90
36	1	394	G	O4'-C1'-N9	5.01	112.21	108.20
36	1	1299	U	C5-C4-O4	-5.01	122.89	125.90
36	1	1322	U	C5-C6-N1	-5.01	120.19	122.70
36	1	1390	A	C5-N7-C8	-5.01	101.39	103.90
36	1	2166	A	C4-C5-C6	-5.01	114.50	117.00
36	1	2773	C	C5-C4-N4	-5.01	116.69	120.20
36	1	2824	G	C5-N7-C8	-5.01	101.80	104.30
36	1	3137	C	C2-N3-C4	-5.01	117.39	119.90
1	6	547	U	N3-C4-O4	-5.01	115.89	119.40
1	6	1592	A	C5-N7-C8	-5.01	101.39	103.90
36	5	998	A	C4-C5-C6	5.01	119.50	117.00
36	5	1056	U	N3-C4-C5	5.01	117.61	114.60
36	5	2193	U	N1-C2-O2	5.01	126.31	122.80
36	5	2371	G	O4'-C1'-N9	-5.01	104.19	108.20
36	5	2897	A	N9-C4-C5	-5.01	103.80	105.80
36	5	2905	U	C2-N3-C4	-5.01	124.00	127.00
36	5	3297	U	C5-C6-N1	5.01	125.20	122.70
1	2	1517	U	N1-C2-O2	-5.01	119.30	122.80
36	1	2621	G	N1-C2-N3	5.01	126.91	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	35	C	N3-C2-O2	5.01	125.41	121.90
38	4	68	G	N3-C2-N2	-5.01	116.39	119.90
56	N0	115	ARG	NE-CZ-NH2	-5.01	117.80	120.30
1	6	626	U	C6-N1-C2	-5.01	118.00	121.00
1	6	1565	C	C5-C6-N1	-5.01	118.50	121.00
36	5	431	U	C5-C4-O4	5.01	128.91	125.90
36	5	569	A	OP1-P-OP2	5.01	127.11	119.60
36	5	1236	G	N3-C4-C5	-5.01	126.10	128.60
36	5	1399	A	C6-C5-N7	-5.01	128.79	132.30
36	5	1613	A	C6-N1-C2	-5.01	115.59	118.60
36	5	1681	U	N1-C2-O2	-5.01	119.30	122.80
36	5	1807	G	C8-N9-C1'	-5.01	120.49	127.00
36	5	2837	A	N1-C6-N6	-5.01	115.59	118.60
1	2	561	G	N3-C2-N2	-5.01	116.40	119.90
1	2	875	G	C4-N9-C1'	5.01	133.01	126.50
36	1	167	U	C5-C4-O4	5.01	128.90	125.90
36	1	499	G	C8-N9-C4	-5.01	104.40	106.40
36	1	2579	G	N3-C4-C5	-5.01	126.10	128.60
36	1	2767	U	O5'-P-OP2	-5.01	101.19	105.70
36	1	2887	A	N9-C4-C5	5.01	107.80	105.80
36	1	3252	G	C4-N9-C1'	-5.01	119.99	126.50
37	3	49	G	N3-C4-C5	-5.01	126.10	128.60
1	6	448	C	N3-C4-C5	-5.01	119.90	121.90
1	6	1740	A	C5-C6-N1	-5.01	115.20	117.70
36	5	994	G	C5-C6-N1	5.01	114.00	111.50
36	5	994	G	N3-C2-N2	5.01	123.41	119.90
36	5	1525	G	N3-C4-N9	5.01	129.00	126.00
36	5	1620	U	C5-C6-N1	5.01	125.20	122.70
36	5	2611	U	C6-N1-C2	-5.01	118.00	121.00
36	5	2960	C	N1-C2-N3	5.01	122.70	119.20
36	1	1738	C	N3-C4-N4	-5.00	114.50	118.00
36	1	2110	G	N3-C4-N9	5.00	129.00	126.00
36	1	2126	A	C5-C6-N1	5.00	120.20	117.70
36	5	1013	G	C5-C6-O6	5.00	131.60	128.60
36	5	1256	G	C8-N9-C4	5.00	108.40	106.40
38	8	76	C	C4-C5-C6	5.00	119.90	117.40
1	2	351	C	C6-N1-C2	5.00	122.30	120.30
1	2	1674	C	O5'-P-OP1	-5.00	101.20	105.70
36	1	228	U	O5'-P-OP1	-5.00	101.20	105.70
36	1	734	C	N1-C2-O2	5.00	121.90	118.90
36	1	974	G	C5-C6-N1	5.00	114.00	111.50
36	1	1099	A	C8-N9-C1'	-5.00	118.69	127.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1507	G	O5'-P-OP1	-5.00	101.20	105.70
36	1	1736	G	C8-N9-C4	-5.00	104.40	106.40
36	1	1808	G	N9-C4-C5	5.00	107.40	105.40
36	1	2210	G	N3-C4-N9	-5.00	123.00	126.00
1	6	260	U	N1-C2-N3	-5.00	111.90	114.90
1	6	424	C	C4-C5-C6	-5.00	114.90	117.40
1	6	1678	A	N1-C6-N6	5.00	121.60	118.60
36	5	1257	C	C2-N1-C1'	-5.00	113.30	118.80
36	5	1311	G	C8-N9-C1'	-5.00	120.49	127.00
36	5	1853	U	C5-C6-N1	-5.00	120.20	122.70
36	5	2642	A	OP2-P-O3'	5.00	116.21	105.20
36	5	3009	G	N9-C4-C5	5.00	107.40	105.40
38	8	21	C	O4'-C1'-N1	5.00	112.20	108.20
1	2	320	U	C5-C6-N1	5.00	125.20	122.70
36	1	23	A	C4-N9-C1'	5.00	135.30	126.30
36	1	148	G	C8-N9-C1'	-5.00	120.50	127.00
36	1	851	C	C2-N1-C1'	5.00	124.30	118.80
36	1	2287	C	N1-C2-N3	5.00	122.70	119.20
36	1	2297	U	N1-C2-N3	5.00	117.90	114.90
36	1	2354	C	C6-N1-C2	-5.00	118.30	120.30
36	1	2382	G	N3-C2-N2	5.00	123.40	119.90
1	6	415	C	O4'-C1'-N1	5.00	112.20	108.20
1	6	556	A	C5-C6-N1	-5.00	115.20	117.70
1	6	622	A	O4'-C1'-N9	-5.00	104.20	108.20
1	6	1439	C	N3-C2-O2	5.00	125.40	121.90
1	6	1584	G	C8-N9-C4	5.00	108.40	106.40
36	5	885	U	C6-N1-C2	-5.00	118.00	121.00
36	5	974	G	N1-C2-N2	-5.00	111.70	116.20
36	5	1117	G	O4'-C1'-N9	-5.00	104.20	108.20
36	5	1134	G	C5-N7-C8	5.00	106.80	104.30
36	5	1295	G	C8-N9-C1'	-5.00	120.50	127.00
36	5	1699	A	N9-C4-C5	-5.00	103.80	105.80
36	5	2288	G	C6-N1-C2	-5.00	122.10	125.10
36	5	2392	C	N3-C4-C5	5.00	123.90	121.90
36	5	2654	C	OP1-P-O3'	5.00	116.20	105.20
36	5	2759	U	C6-N1-C1'	-5.00	114.20	121.20
36	5	3093	C	N1-C2-N3	5.00	122.70	119.20
36	5	3333	G	C4-C5-N7	-5.00	108.80	110.80
36	5	3337	G	C8-N9-C1'	-5.00	120.50	127.00
38	8	73	U	N1-C2-O2	5.00	126.30	122.80

There are no chirality outliers.



All (130) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
12	C0	26	ASP	Peptide
12	C0	87	VAL	Peptide
16	C4	38	THR	Peptide
18	C6	113	ASP	Peptide
19	C7	85	VAL	Peptide
23	D1	11	LEU	Peptide
24	D2	98	GLN	Peptide
25	D3	143	PRO	Peptide
25	D3	2	GLY	Peptide
26	D4	60	PHE	Peptide
27	D5	94	LYS	Peptide
28	D6	97	PRO	Peptide
33	E1	105	TYR	Peptide
33	E1	146	SER	Peptide
40	L3	204	ALA	Peptide
40	L3	346	THR	Peptide
40	L3	41	VAL	Peptide
41	L4	129	THR	Peptide
41	L4	13	GLY	Peptide
41	L4	131	VAL	Peptide
41	L4	174	ALA	Peptide
41	L4	83	GLY	Peptide
42	L5	58	LYS	Peptide
43	L6	89	THR	Peptide
43	L6	97	ASN	Peptide
44	L7	37	ASN	Peptide
44	L7	92	ILE	Peptide
47	M0	196	PHE	Peptide
47	M0	217	PHE	Peptide
52	M6	110	PRO	Peptide
52	M6	111	PRO	Peptide
53	M7	55	GLN	Peptide
57	N1	16	GLN	Peptide
63	N7	23	VAL	Peptide
63	N7	6	LYS	Peptide
64	N8	116	GLY	Peptide
64	N8	55	LYS	Peptide
64	N8	83	PRO	Peptide
64	N8	95	SER	Peptide
65	N9	20	GLY	Peptide
65	N9	25	LYS	Peptide
69	O3	29	LEU	Peptide

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
69	O3	90	PRO	Peptide
70	O4	22	VAL	Peptide
70	O4	71	THR	Peptide
72	O6	2	THR	Peptide
2	S0	29	VAL	Peptide
2	S0	6	THR	Peptide
5	S3	144	ALA	Peptide
5	S3	42	THR	Peptide
11	S9	15	PRO	Peptide
11	S9	92	LYS	Peptide
35	SM	89	ARG	Peptide
15	c3	140	LYS	Peptide
17	c5	8	LYS	Peptide
18	c6	115	THR	Peptide
18	c6	140	LYS	Peptide
18	c6	41	PRO	Peptide
19	c7	103	ASP	Peptide
19	c7	87	GLU	Peptide
20	c8	63	GLN	Peptide
21	c9	141	GLU	Peptide
22	d0	70	THR	Peptide
24	d2	120	HIS	Peptide
24	d2	58	SER	Peptide
26	d4	123	LYS	Peptide
26	d4	29	HIS	Peptide
27	d5	83	LEU	Peptide
28	d6	10	ARG	Peptide
80	e0	2	ALA	Peptide
80	e0	6	GLY	Peptide
81	e1	146	SER	Peptide
39	l2	141	PRO	Peptide
39	l2	215	ASN	Peptide
40	l3	139	GLN	Peptide
40	l3	234	GLY	Peptide
40	l3	262	TRP	Peptide
40	l3	27	ALA	Peptide
40	l3	346	THR	Peptide
41	l4	132	ALA	Peptide
41	l4	352	ALA	Peptide
42	l5	133	GLU	Peptide
42	l5	258	LYS	Peptide
42	l5	270	LYS	Peptide

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
43	l6	31	ARG	Peptide
44	l7	129	LEU	Peptide
44	l7	157	ASN	Peptide
44	l7	226	GLY	Peptide
45	l8	98	ARG	Peptide
47	m0	111	LEU	Peptide
48	m1	8	PRO	Peptide
82	m2	29	UNK	Peptide
82	m2	36	UNK	Peptide
82	m2	85	UNK	Peptide
49	m3	138	VAL	Peptide
49	m3	148	ALA	Peptide
52	m6	182	ASN	Peptide
52	m6	89	SER	Peptide
53	m7	123	PRO	Peptide
53	m7	55	GLN	Peptide
54	m8	185	LYS	Peptide
56	n0	133	ALA	Peptide
56	n0	3	HIS	Peptide
57	n1	147	VAL	Peptide
60	n4	77	LYS	Peptide
61	n5	57	LEU	Peptide
64	n8	23	GLY	Peptide
64	n8	66	ALA	Peptide
65	n9	19	ASN	Peptide
67	o1	23	VAL	Peptide
68	o2	126	LEU	Peptide
68	o2	15	LYS	Peptide
70	o4	33	GLN	Peptide
70	o4	46	ASP	Peptide
83	p0	101	VAL	Peptide
76	q0	78	ILE	Peptide
2	s0	5	ALA	Peptide
2	s0	72	ASP	Peptide
3	s1	130	SER	Peptide
3	s1	131	ASP	Peptide
3	s1	200	ALA	Peptide
5	s3	203	PRO	Peptide
5	s3	53	THR	Peptide
6	s4	159	THR	Peptide
6	s4	219	VAL	Peptide
7	s5	36	ALA	Peptide

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Mol	Chain	Res	Type	Group
7	s5	44	ASN	Peptide
7	s5	99	MET	Peptide
9	s7	130	VAL	Peptide
11	s9	89	ASP	Peptide

## 5.2 Too-close contacts [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	S0	204/251 (81%)	137 (67%)	42 (21%)	25 (12%)	0	5
2	s0	204/251 (81%)	139 (68%)	31 (15%)	34 (17%)	0	3
3	S1	212/254 (84%)	142 (67%)	42 (20%)	28 (13%)	0	4
3	s1	214/254 (84%)	155 (72%)	39 (18%)	20 (9%)	0	9
4	S2	215/253 (85%)	148 (69%)	47 (22%)	20 (9%)	0	9
4	s2	215/253 (85%)	156 (73%)	30 (14%)	29 (14%)	0	4
5	S3	221/239 (92%)	154 (70%)	48 (22%)	19 (9%)	1	10
5	s3	221/239 (92%)	147 (66%)	51 (23%)	23 (10%)	0	7
6	S4	258/260 (99%)	184 (71%)	44 (17%)	30 (12%)	0	6
6	s4	258/260 (99%)	175 (68%)	53 (20%)	30 (12%)	0	6
7	S5	204/224 (91%)	129 (63%)	46 (22%)	29 (14%)	0	4
7	s5	204/224 (91%)	124 (61%)	51 (25%)	29 (14%)	0	4
8	S6	224/236 (95%)	166 (74%)	37 (16%)	21 (9%)	0	8
8	s6	216/236 (92%)	165 (76%)	36 (17%)	15 (7%)	1	14
9	S7	182/189 (96%)	131 (72%)	35 (19%)	16 (9%)	1	9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	s7	184/189 (97%)	126 (68%)	37 (20%)	21 (11%)	0	6
10	S8	184/200 (92%)	132 (72%)	32 (17%)	20 (11%)	0	6
10	s8	184/200 (92%)	144 (78%)	26 (14%)	14 (8%)	1	12
11	S9	183/196 (93%)	128 (70%)	36 (20%)	19 (10%)	0	7
11	s9	183/196 (93%)	122 (67%)	42 (23%)	19 (10%)	0	7
12	C0	94/105 (90%)	54 (57%)	21 (22%)	19 (20%)	0	1
12	c0	92/105 (88%)	56 (61%)	17 (18%)	19 (21%)	0	1
13	C1	153/155 (99%)	113 (74%)	22 (14%)	18 (12%)	0	5
13	c1	144/155 (93%)	108 (75%)	20 (14%)	16 (11%)	0	6
14	C2	122/142 (86%)	71 (58%)	22 (18%)	29 (24%)	0	0
14	c2	122/142 (86%)	65 (53%)	36 (30%)	21 (17%)	0	2
15	C3	148/150 (99%)	107 (72%)	29 (20%)	12 (8%)	1	11
15	c3	148/150 (99%)	95 (64%)	28 (19%)	25 (17%)	0	2
16	C4	125/136 (92%)	80 (64%)	25 (20%)	20 (16%)	0	3
16	c4	126/136 (93%)	90 (71%)	24 (19%)	12 (10%)	0	8
17	C5	122/141 (86%)	78 (64%)	26 (21%)	18 (15%)	0	3
17	c5	133/141 (94%)	75 (56%)	29 (22%)	29 (22%)	0	1
18	C6	139/142 (98%)	105 (76%)	22 (16%)	12 (9%)	1	10
18	c6	140/142 (99%)	97 (69%)	24 (17%)	19 (14%)	0	4
19	C7	116/136 (85%)	76 (66%)	22 (19%)	18 (16%)	0	3
19	c7	113/136 (83%)	73 (65%)	29 (26%)	11 (10%)	0	8
20	C8	143/145 (99%)	107 (75%)	27 (19%)	9 (6%)	1	17
20	c8	143/145 (99%)	98 (68%)	27 (19%)	18 (13%)	0	5
21	C9	141/143 (99%)	99 (70%)	31 (22%)	11 (8%)	1	11
21	c9	141/143 (99%)	98 (70%)	36 (26%)	7 (5%)	2	21
22	D0	105/120 (88%)	74 (70%)	22 (21%)	9 (9%)	1	10
22	d0	108/120 (90%)	75 (69%)	15 (14%)	18 (17%)	0	3
23	D1	85/87 (98%)	53 (62%)	18 (21%)	14 (16%)	0	3
23	d1	85/87 (98%)	64 (75%)	14 (16%)	7 (8%)	1	10
24	D2	127/129 (98%)	91 (72%)	28 (22%)	8 (6%)	1	17
24	d2	127/129 (98%)	105 (83%)	17 (13%)	5 (4%)	3	27

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
25	D3	142/144 (99%)	87 (61%)	29 (20%)	26 (18%)	0	2
25	d3	142/144 (99%)	119 (84%)	16 (11%)	7 (5%)	2	21
26	D4	132/134 (98%)	98 (74%)	25 (19%)	9 (7%)	1	15
26	d4	132/134 (98%)	101 (76%)	17 (13%)	14 (11%)	0	7
27	D5	68/107 (64%)	43 (63%)	16 (24%)	9 (13%)	0	4
27	d5	67/107 (63%)	45 (67%)	14 (21%)	8 (12%)	0	5
28	D6	95/97 (98%)	53 (56%)	18 (19%)	24 (25%)	0	0
28	d6	95/97 (98%)	71 (75%)	16 (17%)	8 (8%)	1	10
29	D7	79/81 (98%)	58 (73%)	14 (18%)	7 (9%)	1	9
29	d7	79/81 (98%)	61 (77%)	11 (14%)	7 (9%)	1	9
30	D8	61/66 (92%)	45 (74%)	11 (18%)	5 (8%)	1	10
30	d8	61/66 (92%)	39 (64%)	14 (23%)	8 (13%)	0	4
31	D9	51/55 (93%)	32 (63%)	11 (22%)	8 (16%)	0	3
31	d9	51/55 (93%)	35 (69%)	8 (16%)	8 (16%)	0	3
32	E0	58/60 (97%)	34 (59%)	16 (28%)	8 (14%)	0	4
33	E1	69/76 (91%)	39 (56%)	13 (19%)	17 (25%)	0	0
34	SR	316/318 (99%)	237 (75%)	56 (18%)	23 (7%)	1	13
34	sR	316/318 (99%)	251 (79%)	46 (15%)	19 (6%)	1	17
35	SM	155/273 (57%)	90 (58%)	40 (26%)	25 (16%)	0	3
35	sM	98/273 (36%)	59 (60%)	20 (20%)	19 (19%)	0	2
39	L2	250/253 (99%)	197 (79%)	31 (12%)	22 (9%)	1	9
39	l2	250/253 (99%)	192 (77%)	42 (17%)	16 (6%)	1	17
40	L3	384/386 (100%)	290 (76%)	63 (16%)	31 (8%)	1	11
40	l3	384/386 (100%)	299 (78%)	53 (14%)	32 (8%)	1	10
41	L4	359/361 (99%)	260 (72%)	62 (17%)	37 (10%)	0	7
41	l4	359/361 (99%)	251 (70%)	68 (19%)	40 (11%)	0	6
42	L5	294/296 (99%)	200 (68%)	58 (20%)	36 (12%)	0	5
42	l5	292/296 (99%)	221 (76%)	44 (15%)	27 (9%)	1	9
43	L6	152/175 (87%)	123 (81%)	17 (11%)	12 (8%)	1	11
43	l6	153/175 (87%)	107 (70%)	27 (18%)	19 (12%)	0	5
44	L7	220/243 (90%)	154 (70%)	45 (20%)	21 (10%)	0	8

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
44	l7	221/243 (91%)	165 (75%)	34 (15%)	22 (10%)	0	8
45	L8	231/255 (91%)	137 (59%)	65 (28%)	29 (13%)	0	5
45	l8	229/255 (90%)	155 (68%)	52 (23%)	22 (10%)	0	8
46	L9	189/191 (99%)	137 (72%)	30 (16%)	22 (12%)	0	6
46	l9	189/191 (99%)	142 (75%)	27 (14%)	20 (11%)	0	7
47	M0	207/220 (94%)	148 (72%)	38 (18%)	21 (10%)	0	7
47	m0	209/220 (95%)	149 (71%)	41 (20%)	19 (9%)	1	9
48	M1	167/173 (96%)	116 (70%)	27 (16%)	24 (14%)	0	4
48	m1	167/173 (96%)	120 (72%)	27 (16%)	20 (12%)	0	5
49	M3	191/198 (96%)	134 (70%)	46 (24%)	11 (6%)	1	18
49	m3	192/198 (97%)	126 (66%)	37 (19%)	29 (15%)	0	3
50	M4	134/137 (98%)	97 (72%)	25 (19%)	12 (9%)	1	9
50	m4	135/137 (98%)	92 (68%)	35 (26%)	8 (6%)	1	18
51	M5	201/203 (99%)	151 (75%)	38 (19%)	12 (6%)	1	17
51	m5	201/203 (99%)	151 (75%)	35 (17%)	15 (8%)	1	12
52	M6	195/198 (98%)	146 (75%)	36 (18%)	13 (7%)	1	15
52	m6	195/198 (98%)	151 (77%)	26 (13%)	18 (9%)	1	9
53	M7	181/183 (99%)	128 (71%)	34 (19%)	19 (10%)	0	7
53	m7	153/183 (84%)	111 (72%)	29 (19%)	13 (8%)	1	10
54	M8	183/185 (99%)	132 (72%)	36 (20%)	15 (8%)	1	10
54	m8	183/185 (99%)	134 (73%)	36 (20%)	13 (7%)	1	14
55	M9	186/188 (99%)	136 (73%)	33 (18%)	17 (9%)	1	9
55	m9	186/188 (99%)	125 (67%)	40 (22%)	21 (11%)	0	6
56	N0	170/172 (99%)	139 (82%)	21 (12%)	10 (6%)	1	18
56	n0	170/172 (99%)	145 (85%)	16 (9%)	9 (5%)	2	19
57	N1	157/159 (99%)	115 (73%)	28 (18%)	14 (9%)	1	9
57	n1	157/159 (99%)	121 (77%)	27 (17%)	9 (6%)	1	18
58	N2	98/120 (82%)	65 (66%)	26 (26%)	7 (7%)	1	14
58	n2	96/120 (80%)	64 (67%)	24 (25%)	8 (8%)	1	10
59	N3	134/136 (98%)	109 (81%)	16 (12%)	9 (7%)	1	15
59	n3	134/136 (98%)	113 (84%)	12 (9%)	9 (7%)	1	15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
60	N4	96/155 (62%)	63 (66%)	16 (17%)	17 (18%)	0	2
60	n4	133/155 (86%)	88 (66%)	25 (19%)	20 (15%)	0	3
61	N5	119/141 (84%)	81 (68%)	30 (25%)	8 (7%)	1	15
61	n5	118/141 (84%)	91 (77%)	17 (14%)	10 (8%)	1	10
62	N6	124/126 (98%)	94 (76%)	18 (14%)	12 (10%)	0	8
62	n6	124/126 (98%)	92 (74%)	17 (14%)	15 (12%)	0	5
63	N7	133/135 (98%)	98 (74%)	19 (14%)	16 (12%)	0	5
63	n7	133/135 (98%)	94 (71%)	26 (20%)	13 (10%)	0	8
64	N8	146/148 (99%)	100 (68%)	30 (20%)	16 (11%)	0	6
64	n8	146/148 (99%)	104 (71%)	28 (19%)	14 (10%)	0	8
65	N9	56/58 (97%)	40 (71%)	11 (20%)	5 (9%)	1	9
65	n9	56/58 (97%)	33 (59%)	14 (25%)	9 (16%)	0	3
66	O0	95/104 (91%)	82 (86%)	10 (10%)	3 (3%)	4	31
66	o0	98/104 (94%)	75 (76%)	18 (18%)	5 (5%)	2	20
67	O1	107/112 (96%)	86 (80%)	12 (11%)	9 (8%)	1	10
67	o1	107/112 (96%)	73 (68%)	14 (13%)	20 (19%)	0	2
68	O2	125/129 (97%)	95 (76%)	20 (16%)	10 (8%)	1	11
68	o2	125/129 (97%)	89 (71%)	23 (18%)	13 (10%)	0	7
69	O3	104/106 (98%)	90 (86%)	7 (7%)	7 (7%)	1	15
69	o3	104/106 (98%)	82 (79%)	13 (12%)	9 (9%)	1	9
70	O4	110/119 (92%)	80 (73%)	19 (17%)	11 (10%)	0	8
70	o4	110/119 (92%)	75 (68%)	24 (22%)	11 (10%)	0	8
71	O5	117/119 (98%)	75 (64%)	28 (24%)	14 (12%)	0	5
71	o5	117/119 (98%)	80 (68%)	18 (15%)	19 (16%)	0	3
72	O6	97/99 (98%)	69 (71%)	16 (16%)	12 (12%)	0	5
72	o6	97/99 (98%)	67 (69%)	18 (19%)	12 (12%)	0	5
73	O7	85/87 (98%)	63 (74%)	16 (19%)	6 (7%)	1	14
73	o7	85/87 (98%)	60 (71%)	14 (16%)	11 (13%)	0	5
74	O8	75/77 (97%)	55 (73%)	12 (16%)	8 (11%)	0	7
74	o8	75/77 (97%)	53 (71%)	18 (24%)	4 (5%)	2	19
75	O9	48/50 (96%)	34 (71%)	10 (21%)	4 (8%)	1	10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
75	o9	48/50 (96%)	36 (75%)	8 (17%)	4 (8%)	1	10
76	Q0	50/52 (96%)	32 (64%)	12 (24%)	6 (12%)	0	5
76	q0	50/52 (96%)	39 (78%)	6 (12%)	5 (10%)	0	8
77	Q1	23/25 (92%)	18 (78%)	3 (13%)	2 (9%)	1	9
77	q1	23/25 (92%)	16 (70%)	3 (13%)	4 (17%)	0	2
78	Q2	103/105 (98%)	75 (73%)	20 (19%)	8 (8%)	1	11
78	q2	103/105 (98%)	83 (81%)	14 (14%)	6 (6%)	1	18
79	Q3	89/91 (98%)	59 (66%)	16 (18%)	14 (16%)	0	3
79	q3	89/91 (98%)	71 (80%)	9 (10%)	9 (10%)	0	7
80	e0	60/62 (97%)	37 (62%)	14 (23%)	9 (15%)	0	3
81	e1	74/76 (97%)	28 (38%)	26 (35%)	20 (27%)	0	0
83	p0	139/311 (45%)	103 (74%)	27 (19%)	9 (6%)	1	16
All	All	22333/24141 (92%)	15914 (71%)	4073 (18%)	2346 (10%)	0	7

All (2346) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	30	GLN
2	S0	39	ASN
2	S0	95	ALA
2	S0	132	ALA
2	S0	140	ASN
2	S0	158	VAL
2	S0	190	ASP
2	S0	191	ARG
3	S1	49	ASN
3	S1	63	GLY
3	S1	82	ARG
3	S1	177	GLN
3	S1	179	SER
3	S1	206	PRO
3	S1	207	LEU
4	S2	121	VAL
4	S2	135	SER
4	S2	148	LEU
4	S2	163	GLY
4	S2	208	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	S2	236	PRO
5	S3	44	THR
5	S3	129	SER
5	S3	211	PRO
5	S3	216	PRO
5	S3	220	PRO
6	S4	104	ASP
6	S4	119	ALA
6	S4	142	HIS
6	S4	188	ASN
6	S4	245	LYS
7	S5	31	GLU
7	S5	37	GLN
7	S5	63	GLN
7	S5	78	ALA
7	S5	81	ARG
7	S5	98	MET
7	S5	101	GLY
7	S5	109	LYS
8	S6	10	ASN
8	S6	25	ARG
8	S6	138	ALA
8	S6	154	ARG
8	S6	173	PRO
8	S6	174	LYS
9	S7	5	GLN
9	S7	64	VAL
9	S7	73	VAL
9	S7	116	ARG
9	S7	131	PHE
10	S8	22	ARG
10	S8	137	LYS
10	S8	199	LYS
11	S9	100	LYS
11	S9	134	ILE
11	S9	153	GLU
11	S9	156	ILE
11	S9	164	PHE
11	S9	168	ARG
12	C0	60	SER
12	C0	61	TRP
12	C0	81	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
12	C0	87	VAL
12	C0	88	PRO
13	C1	3	THR
13	C1	6	THR
13	C1	7	VAL
13	C1	29	LYS
13	C1	96	LYS
13	C1	144	ALA
13	C1	146	ALA
13	C1	149	ALA
13	C1	154	ALA
14	C2	87	PRO
14	C2	91	VAL
14	C2	113	ARG
14	C2	141	SER
15	C3	27	LYS
15	C3	28	LEU
15	C3	118	ILE
16	C4	18	ARG
16	C4	48	VAL
16	C4	50	ALA
16	C4	51	ASP
16	C4	94	PRO
17	C5	11	VAL
17	C5	22	LEU
17	C5	29	SER
17	C5	125	PRO
17	C5	126	VAL
17	C5	127	ARG
18	C6	39	VAL
18	C6	41	PRO
18	C6	42	GLU
18	C6	113	ASP
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
19	C7	124	VAL
20	C8	14	ILE
20	C8	92	ILE
20	C8	144	ARG
21	C9	39	THR
21	C9	41	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
21	C9	69	LYS
22	D0	16	GLN
22	D0	17	GLN
22	D0	117	VAL
22	D0	118	VAL
23	D1	2	GLU
23	D1	4	ASP
23	D1	10	GLU
23	D1	28	ASP
24	D2	29	PRO
24	D2	30	SER
24	D2	83	ILE
25	D3	3	LYS
25	D3	5	LYS
25	D3	36	THR
25	D3	78	LYS
25	D3	99	ASN
25	D3	137	LYS
25	D3	138	GLU
25	D3	144	ARG
26	D4	33	ALA
26	D4	35	VAL
26	D4	104	SER
27	D5	43	ASP
27	D5	44	GLN
27	D5	71	ILE
27	D5	97	LYS
28	D6	5	ARG
28	D6	45	VAL
28	D6	47	ALA
28	D6	84	VAL
28	D6	86	VAL
29	D7	18	LYS
29	D7	38	PRO
29	D7	63	LEU
31	D9	11	PRO
31	D9	25	SER
31	D9	26	SER
31	D9	27	HIS
31	D9	34	TYR
33	E1	84	VAL
33	E1	106	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	E1	107	LYS
33	E1	110	ALA
33	E1	111	GLU
33	E1	137	ASP
34	SR	51	ASP
34	SR	80	ALA
34	SR	94	VAL
34	SR	162	ALA
35	SM	52	PRO
35	SM	54	PRO
35	SM	64	LYS
35	SM	65	THR
35	SM	69	ARG
35	SM	90	ALA
35	SM	91	THR
35	SM	116	GLU
35	SM	140	ASP
35	SM	166	VAL
35	SM	167	PRO
35	SM	173	GLU
39	L2	17	THR
39	L2	20	THR
39	L2	144	ASN
39	L2	229	ALA
40	L3	83	PRO
40	L3	96	PRO
40	L3	140	ASP
40	L3	188	ILE
40	L3	240	ARG
40	L3	289	ASP
40	L3	308	MET
40	L3	310	GLY
40	L3	333	LYS
41	L4	4	PRO
41	L4	24	ALA
41	L4	61	SER
41	L4	72	ALA
41	L4	130	ALA
41	L4	132	ALA
41	L4	184	SER
41	L4	190	GLY
41	L4	197	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	L4	220	ARG
41	L4	349	THR
41	L4	361	HIS
42	L5	19	PRO
42	L5	37	VAL
42	L5	57	ASN
42	L5	85	ARG
42	L5	125	VAL
42	L5	178	ASN
42	L5	234	ASP
42	L5	236	LEU
42	L5	260	PHE
42	L5	263	GLU
43	L6	93	VAL
43	L6	98	VAL
43	L6	100	LYS
43	L6	107	ALA
44	L7	24	GLU
44	L7	25	GLN
44	L7	38	LYS
44	L7	112	ASN
44	L7	129	LEU
44	L7	171	ALA
44	L7	175	LYS
44	L7	217	PRO
45	L8	31	PRO
45	L8	36	ILE
45	L8	37	GLY
45	L8	40	VAL
45	L8	64	ILE
45	L8	92	LYS
45	L8	121	SER
46	L9	48	VAL
46	L9	49	ASN
46	L9	50	ASN
46	L9	110	LYS
46	L9	162	GLN
46	L9	189	GLU
47	M0	16	PRO
47	M0	38	LYS
47	M0	145	LYS
47	M0	207	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	M1	8	PRO
48	M1	11	ASP
48	M1	12	LEU
48	M1	24	GLY
48	M1	94	ARG
48	M1	95	ASN
48	M1	112	LEU
49	M3	50	PRO
49	M3	164	GLU
50	M4	8	LYS
50	M4	62	GLN
50	M4	99	TRP
50	M4	134	ALA
50	M4	135	LEU
50	M4	136	ALA
51	M5	81	TYR
51	M5	158	HIS
51	M5	166	ALA
52	M6	85	ARG
52	M6	111	PRO
52	M6	149	TYR
52	M6	182	ASN
53	M7	9	THR
53	M7	37	ASN
53	M7	158	ALA
53	M7	163	LYS
53	M7	177	ALA
54	M8	41	ASP
54	M8	99	THR
54	M8	116	LYS
54	M8	151	ARG
54	M8	152	HIS
55	M9	15	VAL
55	M9	35	ALA
55	M9	66	HIS
55	M9	121	HIS
56	N0	59	VAL
57	N1	55	LYS
57	N1	101	CYS
57	N1	119	ALA
57	N1	120	LYS
57	N1	122	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
57	N1	133	ALA
57	N1	138	SER
58	N2	11	ILE
58	N2	51	GLY
58	N2	91	ASP
59	N3	9	THR
59	N3	10	LYS
59	N3	66	LYS
59	N3	67	PRO
59	N3	82	ALA
60	N4	25	ASP
60	N4	35	LYS
60	N4	77	LYS
60	N4	81	PRO
60	N4	86	SER
61	N5	36	LYS
61	N5	62	VAL
62	N6	31	LEU
62	N6	37	LYS
62	N6	91	ASN
62	N6	92	GLY
63	N7	18	TYR
63	N7	35	SER
63	N7	59	ALA
63	N7	98	THR
63	N7	105	SER
63	N7	128	GLN
64	N8	15	VAL
64	N8	30	GLY
64	N8	79	TRP
64	N8	93	SER
64	N8	117	ARG
65	N9	5	LYS
65	N9	24	PRO
67	O1	6	ASP
67	O1	7	VAL
67	O1	46	THR
68	O2	41	VAL
68	O2	62	LYS
69	O3	33	GLU
69	O3	90	PRO
69	O3	94	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
70	O4	46	ASP
70	O4	108	GLN
70	O4	109	THR
71	O5	30	GLU
71	O5	31	LEU
71	O5	86	ARG
71	O5	96	GLU
71	O5	97	ALA
71	O5	119	LYS
72	O6	11	LEU
72	O6	21	THR
72	O6	27	SER
72	O6	89	GLU
73	O7	32	LYS
73	O7	51	ALA
74	O8	33	LYS
75	O9	4	GLN
75	O9	10	LYS
75	O9	27	ILE
76	Q0	78	ILE
76	Q0	117	HIS
77	Q1	23	ARG
78	Q2	15	LYS
78	Q2	17	CYS
78	Q2	60	LYS
78	Q2	100	LYS
79	Q3	21	SER
79	Q3	53	GLY
79	Q3	60	CYS
79	Q3	61	LYS
2	s0	4	PRO
2	s0	95	ALA
2	s0	97	PRO
2	s0	111	ILE
2	s0	114	SER
2	s0	152	PRO
2	s0	155	PHE
2	s0	158	VAL
2	s0	164	ASN
2	s0	177	LEU
2	s0	178	ALA
2	s0	189	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	s0	194	PRO
2	s0	206	ASP
3	s1	26	ARG
3	s1	81	PHE
3	s1	82	ARG
3	s1	93	GLY
3	s1	108	ASP
3	s1	147	ALA
3	s1	206	PRO
4	s2	106	ASP
4	s2	121	VAL
4	s2	148	LEU
4	s2	149	GLY
4	s2	164	SER
4	s2	228	ASN
4	s2	234	PRO
4	s2	236	PRO
5	s3	9	ARG
5	s3	30	ALA
5	s3	115	ILE
5	s3	142	LEU
5	s3	144	ALA
5	s3	177	MET
5	s3	219	ALA
5	s3	220	PRO
5	s3	221	SER
6	s4	57	ASN
6	s4	80	THR
6	s4	142	HIS
6	s4	150	PRO
6	s4	163	ASP
6	s4	171	ASP
6	s4	177	ALA
6	s4	178	GLY
6	s4	196	VAL
7	s5	28	PRO
7	s5	33	VAL
7	s5	34	GLN
7	s5	36	ALA
7	s5	37	GLN
7	s5	41	LYS
7	s5	55	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	s5	100	ASN
7	s5	151	GLY
7	s5	155	ALA
7	s5	184	PHE
8	s6	58	LYS
8	s6	70	PRO
8	s6	122	GLU
8	s6	154	ARG
8	s6	156	PHE
8	s6	173	PRO
8	s6	174	LYS
9	s7	64	VAL
9	s7	74	GLN
9	s7	112	ARG
9	s7	113	PRO
9	s7	118	LEU
9	s7	131	PHE
9	s7	147	ASN
9	s7	149	ILE
9	s7	158	ASP
9	s7	165	LYS
10	s8	3	ILE
10	s8	100	ALA
10	s8	101	ILE
10	s8	107	THR
10	s8	147	ALA
10	s8	148	ALA
11	s9	118	LEU
11	s9	167	ALA
11	s9	182	GLU
12	c0	24	LYS
12	c0	25	LYS
12	c0	35	ILE
12	c0	82	LEU
12	c0	83	PRO
12	c0	88	PRO
12	c0	92	ILE
12	c0	94	GLU
12	c0	97	PRO
13	c1	8	GLN
13	c1	75	VAL
13	c1	144	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
14	c2	22	VAL
14	c2	39	ASP
14	c2	66	VAL
14	c2	82	PRO
14	c2	101	ALA
14	c2	131	ASP
15	c3	12	SER
15	c3	19	SER
15	c3	60	VAL
15	c3	62	GLN
15	c3	66	ILE
15	c3	87	ASP
15	c3	106	ARG
15	c3	122	ILE
15	c3	139	TRP
15	c3	149	LEU
16	c4	39	ILE
16	c4	50	ALA
16	c4	126	THR
16	c4	132	ARG
17	c5	7	ALA
17	c5	18	ARG
17	c5	26	LEU
17	c5	27	GLU
17	c5	41	VAL
17	c5	49	MET
17	c5	51	SER
17	c5	71	GLU
17	c5	75	PRO
17	c5	125	PRO
17	c5	126	VAL
17	c5	127	ARG
18	c6	39	VAL
18	c6	106	LYS
18	c6	110	THR
19	c7	63	LYS
19	c7	88	VAL
19	c7	99	VAL
19	c7	116	LYS
20	c8	9	GLY
20	c8	29	VAL
20	c8	46	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
20	c8	91	ASP
20	c8	128	PHE
20	c8	145	ARG
21	c9	11	ALA
21	c9	29	GLU
22	d0	15	GLN
22	d0	16	GLN
22	d0	17	GLN
22	d0	49	ASN
22	d0	51	VAL
22	d0	96	PRO
22	d0	97	VAL
22	d0	118	VAL
22	d0	119	ALA
22	d0	120	SER
23	d1	43	GLY
23	d1	66	ASP
23	d1	67	ASP
24	d2	68	ARG
24	d2	95	PRO
25	d3	131	SER
25	d3	138	GLU
26	d4	4	ALA
26	d4	30	PRO
26	d4	33	ALA
26	d4	54	ALA
26	d4	68	LYS
26	d4	125	LEU
27	d5	38	HIS
27	d5	85	LYS
27	d5	87	GLY
27	d5	104	ALA
28	d6	28	LYS
28	d6	63	ALA
29	d7	4	VAL
29	d7	38	PRO
29	d7	57	GLU
29	d7	60	SER
30	d8	52	ASP
31	d9	6	VAL
31	d9	7	TRP
80	e0	48	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
80	e0	49	LEU
80	e0	60	PRO
81	e1	83	LYS
81	e1	84	VAL
81	e1	87	THR
81	e1	100	LEU
81	e1	102	VAL
81	e1	103	LEU
81	e1	106	TYR
81	e1	124	PRO
81	e1	125	THR
81	e1	127	GLY
81	e1	148	TYR
34	sR	4	ASN
34	sR	75	ALA
34	sR	149	ASP
34	sR	160	GLU
34	sR	162	ALA
34	sR	165	ASP
34	sR	166	SER
34	sR	226	ALA
34	sR	285	ALA
34	sR	318	ALA
35	sM	41	SER
35	sM	47	ALA
35	sM	48	ARG
35	sM	50	ASN
35	sM	64	LYS
35	sM	172	VAL
39	l2	24	GLN
39	l2	130	SER
39	l2	143	GLU
39	l2	212	GLY
39	l2	249	SER
40	l3	23	ALA
40	l3	129	ALA
40	l3	140	ASP
40	l3	142	ALA
40	l3	170	PRO
40	l3	188	ILE
40	l3	235	THR
40	l3	252	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	13	263	SER
40	13	302	LYS
41	14	15	ALA
41	14	17	ALA
41	14	74	ILE
41	14	132	ALA
41	14	133	SER
41	14	193	LYS
41	14	301	PRO
41	14	305	ALA
41	14	349	THR
42	15	57	ASN
42	15	116	ASP
42	15	178	ASN
42	15	212	ALA
42	15	216	GLU
42	15	228	ALA
43	16	8	LYS
43	16	24	ALA
43	16	26	ARG
43	16	32	ALA
43	16	81	ALA
43	16	98	VAL
43	16	107	ALA
43	16	129	GLU
43	16	142	ASP
43	16	171	PRO
44	17	66	LYS
44	17	67	ARG
44	17	130	ILE
44	17	168	ILE
44	17	178	ILE
44	17	180	SER
44	17	193	PRO
45	18	25	PRO
45	18	26	LEU
45	18	34	PHE
45	18	122	LYS
45	18	240	ASN
45	18	241	LYS
46	19	2	LYS
46	19	77	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	l9	144	ILE
47	m0	16	PRO
47	m0	38	LYS
47	m0	77	THR
47	m0	78	THR
47	m0	79	VAL
47	m0	82	ARG
47	m0	91	VAL
47	m0	118	ALA
48	m1	8	PRO
48	m1	9	MET
48	m1	10	ARG
48	m1	23	VAL
48	m1	115	LYS
48	m1	117	ASP
48	m1	173	ASP
49	m3	19	GLN
49	m3	47	ALA
49	m3	50	PRO
49	m3	133	PRO
49	m3	134	GLU
49	m3	141	ALA
49	m3	150	PRO
49	m3	152	THR
49	m3	161	ASP
49	m3	186	ARG
50	m4	90	VAL
50	m4	136	ALA
51	m5	17	ASP
51	m5	77	LYS
51	m5	81	TYR
51	m5	183	THR
51	m5	187	ARG
52	m6	4	GLU
52	m6	63	ALA
52	m6	94	ARG
52	m6	122	GLN
52	m6	178	VAL
52	m6	196	ALA
53	m7	12	ALA
53	m7	34	GLN
53	m7	67	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
53	m7	109	ALA
54	m8	99	THR
54	m8	108	ALA
54	m8	112	ALA
54	m8	149	ALA
55	m9	7	GLN
55	m9	36	ASN
55	m9	47	ASN
55	m9	55	VAL
55	m9	117	LYS
55	m9	130	ASN
55	m9	182	ASP
55	m9	183	ALA
56	n0	98	SER
56	n0	142	GLN
57	n1	38	ASP
57	n1	55	LYS
57	n1	126	VAL
57	n1	127	GLN
57	n1	146	ASN
58	n2	50	LEU
59	n3	124	ASP
60	n4	14	TYR
60	n4	16	GLY
60	n4	25	ASP
60	n4	57	LYS
60	n4	71	ARG
60	n4	77	LYS
60	n4	133	THR
60	n4	134	GLN
61	n5	44	PRO
61	n5	45	LYS
61	n5	46	TYR
62	n6	25	SER
62	n6	37	LYS
62	n6	62	SER
62	n6	71	SER
62	n6	83	ASP
62	n6	84	LYS
62	n6	96	PRO
62	n6	125	LYS
62	n6	126	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
63	n7	5	LEU
63	n7	36	HIS
63	n7	103	GLN
63	n7	130	PHE
64	n8	12	ARG
64	n8	76	ASP
64	n8	78	LEU
64	n8	79	TRP
65	n9	23	LYS
65	n9	39	PHE
65	n9	42	ASN
67	o1	5	LYS
67	o1	33	VAL
67	o1	45	GLY
67	o1	63	GLY
67	o1	84	ASP
67	o1	86	LYS
67	o1	99	ALA
68	o2	6	HIS
68	o2	27	ARG
68	o2	124	GLY
69	o3	40	ASP
69	o3	60	ARG
69	o3	90	PRO
70	o4	32	ALA
70	o4	35	VAL
71	o5	6	ALA
71	o5	39	PRO
71	o5	43	LYS
71	o5	83	LYS
71	o5	87	ALA
71	o5	99	GLN
71	o5	119	LYS
72	o6	13	LYS
72	o6	64	SER
72	o6	91	ASN
72	o6	98	ARG
73	o7	12	HIS
73	o7	67	LEU
73	o7	86	ALA
75	o9	30	ARG
75	o9	35	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
76	q0	78	ILE
76	q0	80	PRO
76	q0	81	SER
76	q0	120	GLN
77	q1	14	LYS
78	q2	73	GLU
79	q3	10	ILE
79	q3	20	SER
79	q3	21	SER
79	q3	45	LYS
79	q3	51	ALA
83	p0	206	ASP
2	S0	26	ALA
2	S0	36	TYR
2	S0	37	VAL
2	S0	130	ALA
3	S1	21	VAL
3	S1	54	LEU
3	S1	158	SER
3	S1	213	ARG
3	S1	224	ASP
4	S2	75	GLY
4	S2	182	PRO
4	S2	200	SER
4	S2	207	LEU
5	S3	31	GLU
5	S3	61	GLU
5	S3	78	LYS
5	S3	130	GLY
5	S3	217	ILE
6	S4	12	LEU
6	S4	66	MET
6	S4	87	MET
6	S4	95	THR
6	S4	178	GLY
6	S4	231	GLN
6	S4	260	GLY
7	S5	39	GLU
7	S5	43	PHE
7	S5	45	LYS
7	S5	127	GLN
8	S6	44	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	S6	148	SER
8	S6	149	LYS
9	S7	32	PRO
9	S7	98	ILE
9	S7	111	LYS
9	S7	118	LEU
9	S7	133	THR
9	S7	167	GLU
10	S8	10	LYS
10	S8	41	LYS
10	S8	152	ILE
11	S9	67	PRO
11	S9	122	VAL
11	S9	150	LEU
11	S9	162	SER
11	S9	163	PRO
11	S9	169	PRO
12	C0	25	LYS
12	C0	31	LYS
12	C0	33	GLU
12	C0	64	TYR
12	C0	84	GLU
13	C1	55	ASP
13	C1	88	ARG
13	C1	95	PRO
13	C1	145	ALA
13	C1	147	ALA
14	C2	67	THR
14	C2	126	TRP
14	C2	127	GLY
14	C2	131	ASP
14	C2	142	GLN
15	C3	68	GLY
15	C3	117	LEU
16	C4	35	GLY
16	C4	36	LYS
16	C4	47	LYS
16	C4	64	ALA
16	C4	75	GLY
16	C4	79	VAL
16	C4	123	SER
17	C5	52	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
17	C5	53	PRO
17	C5	69	GLU
18	C6	40	GLU
18	C6	59	LYS
18	C6	107	LYS
19	C7	6	THR
19	C7	23	LYS
19	C7	113	LEU
19	C7	120	SER
20	C8	8	GLN
20	C8	70	VAL
20	C8	119	ILE
20	C8	120	ARG
21	C9	40	SER
21	C9	119	LYS
25	D3	79	ASN
25	D3	131	SER
26	D4	5	VAL
26	D4	11	LYS
27	D5	37	GLN
27	D5	88	ILE
28	D6	32	LYS
28	D6	53	LEU
28	D6	61	GLU
28	D6	62	TYR
28	D6	65	PRO
28	D6	80	HIS
28	D6	85	ARG
28	D6	97	PRO
29	D7	51	GLN
30	D8	36	THR
31	D9	6	VAL
31	D9	8	PHE
32	E0	6	GLY
32	E0	13	LYS
32	E0	47	VAL
32	E0	52	GLY
33	E1	83	LYS
33	E1	98	VAL
33	E1	102	VAL
33	E1	118	ARG
34	SR	217	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	SR	237	GLN
35	SM	41	SER
35	SM	71	ASN
35	SM	87	THR
35	SM	89	ARG
35	SM	133	GLU
35	SM	139	GLU
39	L2	7	ASN
39	L2	13	GLY
39	L2	133	TYR
39	L2	146	THR
39	L2	175	VAL
39	L2	220	GLY
40	L3	139	GLN
40	L3	142	ALA
40	L3	245	GLY
40	L3	348	ARG
40	L3	351	LEU
40	L3	378	ALA
40	L3	385	LYS
40	L3	386	ASP
41	L4	14	GLU
41	L4	26	PHE
41	L4	82	THR
41	L4	174	ALA
41	L4	291	ASN
41	L4	295	ILE
41	L4	311	HIS
41	L4	317	PRO
42	L5	7	ALA
42	L5	59	ASP
42	L5	115	LEU
42	L5	126	GLU
42	L5	177	GLU
42	L5	221	GLU
42	L5	231	ILE
42	L5	256	THR
42	L5	258	LYS
43	L6	59	GLU
43	L6	61	ASN
43	L6	90	LYS
44	L7	91	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	L7	122	ALA
44	L7	185	ILE
44	L7	193	PRO
44	L7	241	LYS
45	L8	78	PHE
45	L8	103	ALA
45	L8	182	GLY
45	L8	209	ALA
45	L8	240	ASN
46	L9	39	LYS
46	L9	66	ALA
46	L9	67	ALA
46	L9	161	LEU
46	L9	169	ASN
47	M0	41	ALA
47	M0	84	ALA
47	M0	117	GLY
47	M0	149	VAL
47	M0	155	ALA
47	M0	208	ASN
48	M1	115	LYS
48	M1	138	VAL
48	M1	139	THR
48	M1	140	ARG
48	M1	167	TYR
48	M1	171	VAL
49	M3	47	ALA
49	M3	193	ALA
51	M5	94	TYR
52	M6	191	ALA
52	M6	195	ALA
53	M7	36	ILE
53	M7	54	HIS
53	M7	157	VAL
53	M7	161	ALA
53	M7	164	LYS
53	M7	178	ALA
54	M8	44	PHE
54	M8	46	LYS
54	M8	91	ALA
54	M8	183	GLY
55	M9	14	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
55	M9	20	ARG
55	M9	65	ALA
55	M9	67	ALA
56	N0	139	TYR
57	N1	16	GLN
57	N1	18	ASP
57	N1	81	GLY
57	N1	124	VAL
58	N2	27	VAL
58	N2	52	ASN
59	N3	6	ALA
60	N4	16	GLY
60	N4	36	SER
60	N4	46	PRO
60	N4	62	GLY
60	N4	76	VAL
62	N6	45	ILE
62	N6	90	VAL
62	N6	101	PRO
63	N7	3	LYS
63	N7	28	PRO
63	N7	55	LYS
64	N8	4	ARG
64	N8	27	LYS
64	N8	29	PRO
64	N8	81	LEU
64	N8	84	GLU
66	O0	71	GLN
67	O1	5	LYS
67	O1	31	ARG
67	O1	47	ASP
67	O1	61	LYS
68	O2	13	HIS
68	O2	27	ARG
70	O4	33	GLN
70	O4	98	GLN
71	O5	8	GLU
71	O5	43	LYS
71	O5	75	TYR
71	O5	82	ALA
71	O5	95	PHE
72	O6	94	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
73	O7	77	GLY
73	O7	85	LYS
73	O7	86	ALA
74	O8	37	PRO
74	O8	74	LYS
76	Q0	120	GLN
77	Q1	3	ALA
78	Q2	32	LYS
78	Q2	34	SER
79	Q3	74	ALA
79	Q3	85	ARG
79	Q3	89	MET
2	s0	9	LEU
2	s0	31	VAL
2	s0	65	ALA
2	s0	115	PHE
2	s0	130	ALA
2	s0	185	ARG
2	s0	196	SER
3	s1	21	VAL
3	s1	107	THR
3	s1	191	GLU
3	s1	218	LEU
3	s1	224	ASP
4	s2	91	ARG
4	s2	92	ALA
4	s2	163	GLY
4	s2	192	GLY
4	s2	204	THR
4	s2	233	GLN
5	s3	161	GLY
5	s3	211	PRO
5	s3	216	PRO
5	s3	217	ILE
6	s4	12	LEU
6	s4	31	PRO
6	s4	168	LYS
6	s4	195	ILE
6	s4	248	ILE
6	s4	259	GLN
7	s5	43	PHE
7	s5	75	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	s5	204	GLY
7	s5	224	ASN
8	s6	68	LEU
8	s6	153	VAL
8	s6	157	VAL
8	s6	195	VAL
9	s7	9	LEU
9	s7	25	VAL
9	s7	35	LYS
9	s7	54	GLY
9	s7	145	GLY
9	s7	160	GLN
10	s8	88	ASN
10	s8	153	GLU
10	s8	174	GLY
11	s9	121	SER
11	s9	128	LEU
11	s9	158	PHE
12	c0	23	ALA
12	c0	30	ALA
12	c0	51	SER
12	c0	73	VAL
13	c1	53	TYR
13	c1	61	THR
13	c1	82	ARG
13	c1	114	ALA
13	c1	119	VAL
13	c1	128	CYS
14	c2	45	LEU
14	c2	103	LEU
14	c2	113	ARG
14	c2	115	VAL
15	c3	18	TYR
15	c3	88	LEU
15	c3	89	TYR
15	c3	137	PRO
15	c3	138	ASN
15	c3	140	LYS
16	c4	32	ASP
16	c4	36	LYS
16	c4	124	ASP
17	c5	13	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
17	c5	29	SER
17	c5	38	PRO
17	c5	52	LYS
17	c5	69	GLU
17	c5	72	LYS
18	c6	37	THR
18	c6	42	GLU
18	c6	101	SER
18	c6	107	LYS
18	c6	113	ASP
18	c6	115	THR
18	c6	116	LEU
18	c6	142	TYR
19	c7	42	GLN
19	c7	67	ARG
20	c8	14	ILE
20	c8	115	ARG
20	c8	127	HIS
21	c9	86	ARG
22	d0	18	GLN
22	d0	35	GLU
22	d0	39	SER
22	d0	43	LYS
22	d0	53	LYS
23	d1	4	ASP
25	d3	101	GLU
25	d3	119	GLY
25	d3	125	VAL
26	d4	53	ASP
26	d4	58	PHE
26	d4	67	GLY
28	d6	9	GLY
28	d6	58	VAL
28	d6	62	TYR
29	d7	3	LEU
29	d7	59	CYS
30	d8	32	PHE
31	d9	11	PRO
80	e0	47	VAL
81	e1	98	VAL
81	e1	128	ALA
81	e1	129	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
81	e1	136	LYS
81	e1	137	ASP
34	sR	163	ASP
34	sR	231	MET
34	sR	297	ASP
35	sM	63	ASP
35	sM	67	GLY
39	l2	14	SER
39	l2	15	ILE
39	l2	115	ASN
39	l2	182	ALA
39	l2	240	ALA
40	l3	3	HIS
40	l3	24	SER
40	l3	131	THR
40	l3	330	GLY
40	l3	385	LYS
41	l4	24	ALA
41	l4	25	VAL
41	l4	172	VAL
41	l4	259	ASP
41	l4	272	VAL
41	l4	311	HIS
41	l4	327	LEU
41	l4	329	PRO
42	l5	29	ASP
42	l5	72	ASP
42	l5	123	GLU
42	l5	125	VAL
42	l5	249	ALA
42	l5	294	ALA
43	l6	31	ARG
43	l6	94	GLU
43	l6	141	VAL
44	l7	28	ALA
44	l7	91	GLY
44	l7	207	LEU
44	l7	223	PHE
45	l8	79	GLN
45	l8	121	SER
45	l8	162	LEU
45	l8	225	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	l8	239	GLY
45	l8	253	SER
46	l9	5	GLN
46	l9	40	HIS
46	l9	76	ASP
46	l9	151	VAL
46	l9	190	ASP
47	m0	3	ARG
47	m0	25	ALA
47	m0	27	PRO
47	m0	113	GLN
47	m0	176	LEU
48	m1	39	GLN
48	m1	111	ASP
48	m1	145	LYS
48	m1	153	LYS
49	m3	76	THR
49	m3	157	ARG
50	m4	133	LYS
51	m5	23	GLN
51	m5	42	PRO
51	m5	57	GLN
52	m6	16	VAL
52	m6	62	THR
52	m6	110	PRO
52	m6	113	ASP
52	m6	186	ALA
53	m7	23	ARG
53	m7	33	ALA
53	m7	54	HIS
53	m7	86	LYS
53	m7	89	LYS
54	m8	46	LYS
54	m8	84	VAL
54	m8	109	GLY
54	m8	180	ARG
54	m8	183	GLY
55	m9	6	THR
55	m9	94	VAL
55	m9	97	ARG
55	m9	120	TYR
56	n0	12	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
56	n0	45	LEU
56	n0	50	LYS
56	n0	145	THR
56	n0	168	PRO
58	n2	41	ILE
58	n2	51	GLY
59	n3	54	LEU
60	n4	64	THR
60	n4	72	SER
60	n4	76	VAL
61	n5	47	ALA
61	n5	55	ASN
61	n5	116	PRO
63	n7	7	ALA
63	n7	92	PHE
63	n7	105	SER
63	n7	134	LEU
64	n8	65	GLN
64	n8	70	LYS
64	n8	85	ASP
64	n8	109	TYR
65	n9	24	PRO
65	n9	30	PRO
65	n9	41	ARG
66	o0	12	GLN
66	o0	19	LYS
66	o0	71	GLN
67	o1	7	VAL
67	o1	18	LYS
67	o1	34	LYS
67	o1	40	ALA
67	o1	60	TRP
68	o2	12	LYS
68	o2	41	VAL
68	o2	125	ARG
69	o3	26	ASN
70	o4	10	ARG
70	o4	33	GLN
70	o4	62	TYR
70	o4	79	SER
70	o4	83	ASN
71	o5	12	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
72	o6	28	TYR
72	o6	65	GLY
73	o7	32	LYS
73	o7	55	ARG
73	o7	73	ARG
74	o8	18	ALA
75	o9	3	ALA
76	q0	107	ALA
78	q2	78	LYS
79	q3	18	TYR
79	q3	77	ALA
83	p0	201	ILE
2	S0	66	ALA
2	S0	162	CYS
2	S0	195	TRP
2	S0	196	SER
3	S1	35	PRO
3	S1	64	ARG
3	S1	73	LEU
3	S1	79	HIS
3	S1	194	ASN
3	S1	199	ASN
4	S2	41	LEU
4	S2	106	ASP
4	S2	145	GLY
5	S3	46	THR
5	S3	74	GLN
5	S3	81	PRO
5	S3	118	ALA
6	S4	3	ARG
6	S4	24	SER
6	S4	26	CYS
6	S4	195	ILE
6	S4	200	ARG
6	S4	242	LYS
6	S4	250	GLU
7	S5	25	LEU
7	S5	58	LEU
7	S5	64	VAL
7	S5	108	LEU
8	S6	58	LYS
8	S6	196	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
9	S7	103	SER
9	S7	166	LEU
10	S8	12	SER
10	S8	58	LEU
10	S8	106	ALA
10	S8	120	THR
10	S8	154	SER
11	S9	91	LYS
11	S9	149	ARG
11	S9	167	ALA
12	C0	36	ASP
13	C1	30	ARG
14	C2	54	ARG
14	C2	55	GLY
14	C2	68	GLU
14	C2	84	ASN
14	C2	125	ASN
15	C3	95	ALA
15	C3	128	TYR
16	C4	40	ALA
17	C5	23	GLU
17	C5	51	SER
17	C5	54	ALA
18	C6	74	HIS
18	C6	115	THR
18	C6	120	ASP
19	C7	12	ALA
19	C7	24	LEU
19	C7	84	TYR
20	C8	61	LEU
21	C9	28	LEU
22	D0	21	LYS
22	D0	120	SER
23	D1	7	GLN
23	D1	15	ARG
23	D1	16	LYS
23	D1	44	ARG
23	D1	81	ASN
24	D2	66	ASN
24	D2	67	GLY
24	D2	96	ALA
25	D3	16	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	D3	40	SER
25	D3	41	SER
25	D3	67	ALA
25	D3	70	LYS
25	D3	128	SER
26	D4	16	PRO
26	D4	34	ASN
28	D6	11	ASN
28	D6	36	ILE
28	D6	52	ASP
28	D6	64	LEU
28	D6	94	ASN
29	D7	70	LYS
30	D8	34	GLU
31	D9	5	ASN
32	E0	16	SER
32	E0	33	ARG
33	E1	85	TYR
33	E1	87	THR
33	E1	99	LYS
33	E1	100	LEU
34	SR	48	THR
34	SR	79	TYR
34	SR	111	MET
34	SR	117	LYS
34	SR	128	ASP
34	SR	194	GLY
35	SM	17	VAL
35	SM	88	ARG
39	L2	34	TYR
39	L2	47	GLN
39	L2	227	ARG
39	L2	246	LEU
39	L2	251	LYS
40	L3	69	LYS
40	L3	127	LYS
40	L3	138	ALA
40	L3	155	ALA
40	L3	244	ARG
40	L3	246	LEU
41	L4	5	GLN
41	L4	175	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	L4	185	LYS
41	L4	189	ALA
41	L4	215	ILE
41	L4	292	SER
41	L4	339	LEU
42	L5	6	ASP
42	L5	78	ALA
42	L5	108	ARG
42	L5	110	LEU
42	L5	162	ALA
42	L5	255	PRO
43	L6	36	PRO
43	L6	154	LEU
44	L7	79	ALA
44	L7	148	VAL
44	L7	163	LEU
44	L7	210	PRO
45	L8	25	PRO
45	L8	79	GLN
45	L8	99	PRO
45	L8	168	ALA
45	L8	169	LEU
45	L8	226	TYR
46	L9	2	LYS
47	M0	26	VAL
47	M0	27	PRO
47	M0	71	CYS
47	M0	122	PRO
47	M0	146	ASP
48	M1	39	GLN
48	M1	118	PRO
48	M1	165	GLN
48	M1	166	LYS
49	M3	30	GLY
49	M3	51	LEU
49	M3	136	GLU
50	M4	4	ASP
50	M4	9	ALA
50	M4	79	ALA
50	M4	125	LYS
51	M5	22	LEU
51	M5	171	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
51	M5	181	ASN
52	M6	41	LEU
52	M6	63	ALA
52	M6	196	ALA
54	M8	51	ALA
55	M9	26	PRO
55	M9	53	LYS
56	N0	104	GLU
59	N3	68	GLU
59	N3	109	MET
60	N4	9	SER
60	N4	14	TYR
60	N4	70	LYS
60	N4	96	LEU
60	N4	97	LYS
61	N5	100	LYS
61	N5	108	LEU
61	N5	137	ASN
62	N6	44	GLY
63	N7	78	ASN
64	N8	83	PRO
64	N8	104	THR
64	N8	116	GLY
66	O0	20	SER
66	O0	97	ASP
67	O1	83	GLU
68	O2	29	ALA
68	O2	80	LYS
69	O3	42	GLN
70	O4	47	CYS
70	O4	48	GLY
70	O4	67	LYS
72	O6	3	VAL
72	O6	18	THR
72	O6	28	TYR
73	O7	70	VAL
74	O8	48	SER
74	O8	63	LYS
78	Q2	62	ALA
79	Q3	40	SER
79	Q3	71	VAL
2	s0	68	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	s0	127	ARG
2	s0	179	ARG
3	s1	154	SER
3	s1	160	HIS
3	s1	192	VAL
4	s2	37	PRO
4	s2	146	THR
5	s3	145	ALA
5	s3	163	PRO
5	s3	195	SER
6	s4	90	ILE
6	s4	94	ALA
7	s5	26	ALA
7	s5	56	ALA
7	s5	67	PRO
7	s5	129	PRO
7	s5	209	TYR
8	s6	131	LYS
8	s6	208	TYR
9	s7	10	SER
10	s8	70	GLU
11	s9	67	PRO
11	s9	110	GLN
11	s9	144	PRO
12	c0	31	LYS
12	c0	93	GLN
12	c0	95	ARG
13	c1	130	PRO
13	c1	133	LYS
14	c2	90	LYS
14	c2	107	ASP
14	c2	108	ARG
14	c2	109	GLU
14	c2	125	ASN
15	c3	47	PRO
15	c3	57	ALA
17	c5	34	VAL
17	c5	54	ALA
17	c5	66	ALA
17	c5	98	ASN
17	c5	133	ALA
17	c5	135	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
18	c6	3	ALA
18	c6	40	GLU
18	c6	141	SER
19	c7	68	GLY
19	c7	104	ASN
20	c8	3	LEU
20	c8	7	GLU
20	c8	60	GLU
20	c8	121	ALA
22	d0	72	ASN
23	d1	41	GLU
23	d1	44	ARG
24	d2	4	SER
24	d2	70	ASN
25	d3	137	LYS
26	d4	35	VAL
26	d4	52	LYS
27	d5	54	VAL
27	d5	57	TYR
27	d5	103	ARG
30	d8	6	PRO
30	d8	36	THR
31	d9	25	SER
80	e0	15	LYS
80	e0	50	VAL
81	e1	91	ILE
81	e1	97	LYS
34	sR	17	ASN
35	sM	42	ALA
35	sM	68	ARG
39	l2	35	ALA
39	l2	180	LEU
40	l3	111	SER
40	l3	197	GLU
40	l3	200	GLU
40	l3	262	TRP
40	l3	386	ASP
41	l4	5	GLN
41	l4	16	THR
41	l4	18	ASN
41	l4	67	THR
41	l4	90	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	14	146	PRO
41	14	189	ALA
41	14	215	ILE
41	14	247	PHE
41	14	252	GLU
41	14	320	ASN
41	14	326	ARG
41	14	330	TYR
41	14	331	ALA
41	14	353	ALA
42	15	9	SER
42	15	132	THR
42	15	227	LEU
42	15	245	GLU
42	15	280	GLU
43	16	10	TYR
43	16	84	VAL
44	17	54	GLU
44	17	124	LEU
44	17	217	PRO
44	17	228	SER
45	18	163	VAL
45	18	203	VAL
45	18	237	ILE
46	19	117	PHE
46	19	120	ASP
46	19	137	SER
46	19	152	GLU
47	m0	12	GLN
47	m0	18	PRO
48	m1	11	ASP
48	m1	26	SER
48	m1	82	ARG
48	m1	108	GLU
48	m1	138	VAL
49	m3	51	LEU
49	m3	130	GLY
49	m3	135	ALA
49	m3	162	ASN
49	m3	187	ALA
49	m3	193	ALA
50	m4	86	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
50	m4	87	ALA
51	m5	68	ARG
51	m5	201	ARG
52	m6	12	LYS
52	m6	100	GLU
52	m6	175	THR
52	m6	195	ALA
53	m7	37	ASN
53	m7	55	GLN
54	m8	61	PRO
55	m9	112	ALA
56	n0	133	ALA
57	n1	135	PRO
57	n1	143	THR
58	n2	52	ASN
58	n2	91	ASP
59	n3	46	LEU
59	n3	47	ASN
59	n3	94	TYR
60	n4	46	PRO
61	n5	48	SER
61	n5	117	ASN
62	n6	24	SER
62	n6	102	SER
63	n7	28	PRO
64	n8	15	VAL
64	n8	29	PRO
64	n8	47	LYS
67	o1	47	ASP
67	o1	61	LYS
67	o1	82	GLU
67	o1	83	GLU
68	o2	26	HIS
68	o2	40	SER
68	o2	45	ARG
68	o2	66	LEU
68	o2	87	MET
70	o4	76	TYR
71	o5	88	LEU
71	o5	89	ARG
71	o5	101	THR
72	o6	29	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
72	o6	76	ARG
73	o7	58	THR
73	o7	87	SER
75	o9	45	ARG
78	q2	33	ALA
78	q2	76	LYS
78	q2	96	GLU
83	p0	93	LEU
2	S0	5	ALA
2	S0	80	THR
3	S1	26	ARG
3	S1	176	VAL
3	S1	209	ASN
4	S2	60	SER
4	S2	85	PRO
4	S2	91	ARG
5	S3	8	LYS
5	S3	99	VAL
5	S3	193	ALA
6	S4	83	PRO
6	S4	165	ALA
6	S4	179	LYS
6	S4	259	GLN
7	S5	62	VAL
7	S5	74	ALA
7	S5	174	LEU
8	S6	11	GLY
8	S6	104	PRO
8	S6	152	ASP
8	S6	199	GLN
10	S8	151	LYS
10	S8	153	GLU
10	S8	155	SER
10	S8	186	GLY
11	S9	84	GLY
11	S9	118	LEU
12	C0	18	GLU
12	C0	26	ASP
12	C0	28	ASN
14	C2	101	ALA
14	C2	105	LYS
14	C2	106	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
14	C2	108	ARG
14	C2	111	ASN
14	C2	119	SER
15	C3	3	ARG
15	C3	22	ALA
15	C3	24	ALA
15	C3	32	SER
16	C4	90	ARG
16	C4	126	THR
17	C5	20	VAL
19	C7	13	SER
19	C7	14	LYS
19	C7	83	GLN
20	C8	83	ALA
21	C9	29	GLU
21	C9	130	ARG
22	D0	73	GLY
23	D1	49	GLU
23	D1	66	ASP
23	D1	82	VAL
25	D3	20	ARG
25	D3	92	CYS
25	D3	109	ARG
25	D3	112	LYS
26	D4	51	GLU
28	D6	35	ALA
28	D6	54	SER
28	D6	58	VAL
30	D8	21	SER
30	D8	22	ARG
32	E0	54	ARG
34	SR	10	ARG
34	SR	63	GLY
34	SR	105	GLY
35	SM	100	THR
35	SM	153	ASP
39	L2	35	ALA
39	L2	174	ARG
39	L2	180	LEU
40	L3	8	ALA
40	L3	144	ILE
40	L3	241	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	L4	29	PRO
41	L4	90	PHE
41	L4	140	HIS
41	L4	306	THR
42	L5	11	ALA
42	L5	107	ARG
42	L5	119	TYR
42	L5	268	GLU
43	L6	30	LEU
44	L7	178	ILE
44	L7	205	PHE
44	L7	216	VAL
44	L7	239	LEU
45	L8	53	PRO
45	L8	76	ALA
45	L8	157	VAL
45	L8	161	GLU
45	L8	180	VAL
46	L9	5	GLN
46	L9	30	PRO
46	L9	72	LYS
46	L9	85	GLY
46	L9	127	PRO
46	L9	190	ASP
47	M0	7	ARG
47	M0	70	ILE
47	M0	220	GLN
48	M1	74	PRO
48	M1	114	ILE
49	M3	85	LEU
51	M5	21	PHE
51	M5	75	VAL
53	M7	3	ARG
53	M7	44	ALA
53	M7	143	PRO
54	M8	77	ALA
54	M8	112	ALA
54	M8	162	ALA
54	M8	171	LYS
55	M9	3	ASN
55	M9	34	GLN
55	M9	151	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
55	M9	178	ALA
56	N0	24	LEU
56	N0	167	ARG
57	N1	110	LYS
57	N1	127	GLN
60	N4	23	ARG
61	N5	116	PRO
62	N6	107	THR
62	N6	126	LEU
63	N7	70	PRO
63	N7	117	ALA
63	N7	127	ASN
64	N8	65	GLN
65	N9	25	LYS
65	N9	32	LEU
67	O1	60	TRP
68	O2	40	SER
68	O2	65	PHE
70	O4	112	ALA
72	O6	29	LYS
72	O6	84	LYS
72	O6	88	GLU
74	O8	34	ALA
76	Q0	79	GLU
76	Q0	88	LYS
78	Q2	30	ALA
79	Q3	84	ARG
2	s0	5	ALA
2	s0	80	THR
2	s0	103	THR
2	s0	167	LYS
3	s1	41	ARG
4	s2	95	ARG
4	s2	147	ASN
4	s2	223	GLY
4	s2	238	SER
5	s3	59	LEU
5	s3	62	ASN
5	s3	107	PHE
6	s4	3	ARG
6	s4	30	ARG
6	s4	96	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
6	s4	143	ASP
6	s4	157	ASN
6	s4	166	SER
7	s5	60	ASP
7	s5	84	LYS
9	s7	11	GLN
9	s7	24	PHE
9	s7	170	GLN
10	s8	78	ILE
10	s8	108	PRO
11	s9	25	ASP
11	s9	26	ALA
11	s9	44	ARG
11	s9	115	LYS
11	s9	178	ALA
11	s9	183	ALA
13	c1	7	VAL
13	c1	15	LYS
13	c1	129	ARG
14	c2	25	GLU
14	c2	40	GLY
14	c2	89	ILE
14	c2	106	ILE
16	c4	72	LYS
16	c4	92	LYS
16	c4	123	SER
17	c5	6	ASN
17	c5	31	GLU
18	c6	112	TYR
19	c7	117	LEU
20	c8	64	GLU
20	c8	102	ALA
20	c8	109	LEU
21	c9	34	VAL
21	c9	143	ASP
22	d0	44	ASN
22	d0	100	VAL
23	d1	42	GLU
26	d4	78	SER
26	d4	82	ALA
28	d6	59	TYR
34	sR	153	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	sR	296	ALA
35	sM	65	THR
35	sM	79	SER
35	sM	132	ALA
35	sM	168	GLU
39	l2	34	TYR
40	l3	10	ARG
40	l3	34	LYS
40	l3	108	GLU
40	l3	187	SER
41	l4	190	GLY
41	l4	328	ASN
41	l4	351	PRO
42	l5	11	ALA
42	l5	15	ARG
42	l5	119	TYR
42	l5	197	SER
42	l5	234	ASP
42	l5	258	LYS
42	l5	265	TYR
43	l6	36	PRO
43	l6	72	ASN
43	l6	108	LYS
44	l7	39	GLU
44	l7	47	ARG
44	l7	159	GLN
44	l7	191	VAL
45	l8	74	THR
45	l8	140	VAL
46	l9	14	GLU
46	l9	110	LYS
46	l9	167	VAL
47	m0	207	GLU
48	m1	116	TYR
49	m3	60	ALA
49	m3	101	ARG
49	m3	140	SER
50	m4	49	PRO
50	m4	97	SER
51	m5	12	ARG
51	m5	33	LYS
52	m6	20	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
53	m7	134	GLY
54	m8	97	PRO
54	m8	150	VAL
55	m9	61	SER
55	m9	155	LEU
55	m9	157	GLU
56	n0	97	VAL
58	n2	33	TYR
58	n2	45	GLY
59	n3	16	GLY
59	n3	123	ALA
59	n3	131	SER
60	n4	63	ILE
60	n4	68	ALA
60	n4	83	THR
60	n4	86	SER
60	n4	132	GLY
62	n6	26	GLN
62	n6	116	LYS
63	n7	91	ALA
64	n8	89	GLN
65	n9	29	TYR
66	o0	27	TYR
67	o1	37	LYS
68	o2	50	ILE
68	o2	65	PHE
69	o3	19	SER
69	o3	58	GLU
69	o3	94	PHE
70	o4	28	GLY
71	o5	71	LYS
72	o6	34	SER
72	o6	67	LYS
73	o7	65	ARG
73	o7	85	LYS
74	o8	46	ARG
78	q2	77	CYS
83	p0	72	ASP
83	p0	193	ASN
2	S0	118	PRO
2	S0	203	PHE
3	S1	93	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	S1	116	LYS
3	S1	127	VAL
4	S2	92	ALA
4	S2	227	PRO
5	S3	59	LEU
6	S4	9	LEU
6	S4	35	PRO
6	S4	77	ARG
6	S4	201	HIS
6	S4	205	PHE
6	S4	214	LEU
6	S4	233	LYS
7	S5	27	THR
7	S5	34	GLN
7	S5	36	ALA
7	S5	163	SER
8	S6	9	VAL
8	S6	70	PRO
8	S6	126	ASP
8	S6	200	ALA
9	S7	39	ARG
9	S7	85	PHE
10	S8	11	ARG
10	S8	52	ASN
10	S8	173	PRO
11	S9	30	LEU
11	S9	82	ARG
12	C0	70	GLU
12	C0	94	GLU
13	C1	9	SER
13	C1	108	PRO
14	C2	92	ALA
14	C2	107	ASP
14	C2	112	ALA
14	C2	140	PHE
15	C3	21	ASN
16	C4	25	ASP
16	C4	42	VAL
17	C5	10	ARG
17	C5	71	GLU
18	C6	85	ILE
19	C7	9	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
19	C7	42	GLN
19	C7	44	LYS
21	C9	105	LEU
24	D2	22	LYS
25	D3	11	SER
25	D3	143	PRO
26	D4	63	GLN
27	D5	42	LEU
28	D6	3	LYS
28	D6	59	TYR
29	D7	60	SER
32	E0	27	PRO
33	E1	125	THR
34	SR	160	GLU
34	SR	186	PHE
34	SR	230	ALA
34	SR	232	TYR
34	SR	307	ASP
39	L2	69	TYR
39	L2	206	PRO
40	L3	111	SER
40	L3	116	ARG
40	L3	185	GLY
41	L4	96	GLY
41	L4	233	LEU
41	L4	318	LEU
42	L5	58	LYS
42	L5	132	THR
42	L5	187	THR
45	L8	86	THR
45	L8	91	PHE
45	L8	97	TYR
45	L8	114	ALA
45	L8	156	ASP
46	L9	13	PRO
46	L9	15	GLY
46	L9	81	GLY
47	M0	24	ARG
47	M0	156	ARG
47	M0	196	PHE
48	M1	172	LEU
49	M3	76	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
49	M3	163	GLY
50	M4	6	ILE
51	M5	73	ARG
52	M6	181	ALA
53	M7	45	GLN
53	M7	121	GLN
55	M9	107	ALA
56	N0	124	LEU
57	N1	126	VAL
58	N2	20	SER
58	N2	38	ILE
62	N6	15	ALA
62	N6	84	LYS
64	N8	47	LYS
64	N8	66	ALA
68	O2	4	LEU
68	O2	45	ARG
69	O3	59	VAL
69	O3	91	ALA
71	O5	90	ARG
71	O5	91	ALA
72	O6	52	PRO
74	O8	18	ALA
75	O9	28	ARG
79	Q3	18	TYR
79	Q3	35	ALA
79	Q3	51	ALA
79	Q3	75	ALA
2	s0	202	TYR
2	s0	205	ARG
3	s1	159	SER
3	s1	193	ILE
4	s2	242	ILE
4	s2	245	ASP
5	s3	45	LYS
6	s4	149	TYR
6	s4	164	LEU
6	s4	204	GLY
6	s4	223	ASN
7	s5	29	ILE
7	s5	39	GLU
8	s6	69	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
9	s7	161	GLN
10	s8	112	TRP
10	s8	158	SER
11	s9	162	SER
13	c1	120	GLY
15	c3	29	SER
15	c3	116	ILE
15	c3	145	THR
16	c4	114	ARG
17	c5	14	THR
17	c5	28	MET
18	c6	99	GLU
18	c6	109	PHE
18	c6	124	PRO
19	c7	51	ALA
19	c7	86	PRO
20	c8	90	ASN
21	c9	19	ALA
25	d3	39	LYS
28	d6	35	ALA
28	d6	46	GLU
30	d8	51	ASN
30	d8	61	ARG
31	d9	12	ARG
31	d9	27	HIS
80	e0	13	LYS
80	e0	14	VAL
81	e1	85	TYR
34	sR	48	THR
35	sM	39	PRO
35	sM	46	LYS
39	l2	238	ILE
40	l3	5	LYS
40	l3	40	PRO
40	l3	297	SER
40	l3	358	TRP
41	l4	72	ALA
41	l4	233	LEU
42	l5	260	PHE
44	l7	97	PRO
45	l8	81	THR
45	l8	93	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	l8	133	LYS
46	l9	43	VAL
46	l9	48	VAL
46	l9	116	ASN
46	l9	158	ALA
48	m1	85	LYS
48	m1	114	ILE
49	m3	5	LYS
49	m3	62	THR
49	m3	124	ILE
49	m3	153	ASP
51	m5	7	LEU
51	m5	32	GLN
51	m5	125	SER
54	m8	24	VAL
55	m9	65	ALA
57	n1	122	GLN
60	n4	56	ARG
60	n4	85	ALA
61	n5	39	LYS
61	n5	115	ARG
62	n6	91	ASN
63	n7	17	ARG
64	n8	129	PHE
65	n9	25	LYS
67	o1	24	SER
67	o1	103	GLY
69	o3	10	LYS
70	o4	58	ARG
71	o5	42	PRO
71	o5	51	ILE
71	o5	65	ALA
72	o6	33	ALA
73	o7	66	TYR
74	o8	32	ASN
74	o8	76	ASN
77	q1	7	LYS
77	q1	13	LEU
79	q3	49	ARG
79	q3	59	CYS
83	p0	33	VAL
83	p0	47	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
83	p0	210	VAL
2	S0	68	PRO
2	S0	78	SER
2	S0	103	THR
2	S0	206	ASP
3	S1	58	SER
3	S1	62	LYS
7	S5	51	VAL
7	S5	79	ASN
7	S5	137	ILE
7	S5	150	GLY
10	S8	34	ALA
10	S8	194	ARG
12	C0	17	GLN
14	C2	66	VAL
14	C2	85	LYS
17	C5	97	TYR
19	C7	61	ILE
21	C9	95	ASP
23	D1	48	GLY
24	D2	98	GLN
25	D3	8	GLY
27	D5	74	SER
33	E1	88	PRO
33	E1	148	TYR
35	SM	12	VAL
35	SM	152	GLN
40	L3	170	PRO
40	L3	317	ILE
41	L4	162	THR
41	L4	232	SER
41	L4	320	ASN
42	L5	91	GLY
42	L5	106	ALA
43	L6	92	SER
45	L8	72	PRO
48	M1	13	LYS
48	M1	55	ARG
48	M1	101	ASN
48	M1	152	HIS
51	M5	46	ASP
52	M6	83	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
53	M7	63	PHE
53	M7	160	ALA
55	M9	184	LEU
56	N0	22	PRO
56	N0	69	PRO
63	N7	103	GLN
70	O4	82	ALA
74	O8	8	ILE
2	s0	10	THR
3	s1	22	ASP
3	s1	99	ASN
4	s2	48	GLY
4	s2	85	PRO
4	s2	246	GLU
5	s3	43	PRO
5	s3	179	GLN
6	s4	213	SER
6	s4	245	LYS
7	s5	102	ARG
7	s5	180	ARG
8	s6	86	PRO
11	s9	184	SER
15	c3	10	GLY
15	c3	150	VAL
17	c5	43	ARG
21	c9	46	PRO
26	d4	11	LYS
27	d5	63	SER
30	d8	24	GLY
31	d9	24	CYS
31	d9	41	GLN
39	l2	248	GLY
40	l3	12	GLY
41	l4	196	ASN
42	l5	237	GLU
43	l6	158	TYR
44	l7	27	ALA
44	l7	231	ASN
45	l8	39	ALA
47	m0	101	LYS
49	m3	43	ALA
49	m3	49	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
50	m4	134	ALA
52	m6	111	PRO
52	m6	176	LYS
55	m9	93	VAL
55	m9	172	ARG
57	n1	101	CYS
60	n4	131	ALA
62	n6	90	VAL
64	n8	56	VAL
67	o1	17	HIS
71	o5	21	LEU
71	o5	54	VAL
71	o5	112	PRO
77	q1	21	ARG
9	S7	63	PRO
14	C2	63	VAL
16	C4	39	ILE
17	C5	68	PRO
17	C5	129	GLY
18	C6	33	GLY
21	C9	118	PRO
23	D1	23	ILE
30	D8	12	VAL
34	SR	49	GLY
35	SM	20	LEU
39	L2	196	TRP
42	L5	87	GLY
50	M4	75	GLY
51	M5	151	ILE
52	M6	16	VAL
53	M7	88	VAL
63	N7	104	PRO
2	s0	58	VAL
2	s0	139	VAL
2	s0	186	GLY
7	s5	21	THR
12	c0	3	MET
16	c4	131	GLY
29	d7	68	GLY
34	sR	15	GLY
39	l2	210	PRO
40	l3	239	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
47	m0	214	PRO
59	n3	104	ASN
63	n7	70	PRO
63	n7	89	VAL
65	n9	21	ILE
66	o0	87	VAL
70	o4	48	GLY
71	o5	22	VAL
7	S5	164	PRO
8	S6	69	LEU
12	C0	86	ILE
14	C2	115	VAL
16	C4	122	PRO
22	D0	95	ALA
27	D5	41	ILE
28	D6	60	PRO
34	SR	20	VAL
42	L5	295	GLY
49	M3	133	PRO
52	M6	70	PRO
54	M8	43	PRO
56	N0	135	VAL
63	N7	36	HIS
65	N9	21	ILE
71	O5	41	LEU
76	Q0	123	PRO
4	s2	104	VAL
4	s2	145	GLY
4	s2	239	PRO
6	s4	227	VAL
7	s5	59	VAL
14	c2	63	VAL
14	c2	87	PRO
24	d2	6	VAL
80	e0	4	VAL
34	sR	193	ILE
35	sM	43	ASP
40	l3	166	ILE
40	l3	245	GLY
49	m3	84	GLY
55	m9	101	VAL
55	m9	113	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
83	p0	204	ILE
3	S1	210	ILE
5	S3	84	ILE
7	S5	172	ILE
12	C0	92	ILE
13	C1	41	GLY
16	C4	67	VAL
25	D3	88	PRO
29	D7	62	ILE
43	L6	171	PRO
46	L9	187	ILE
55	M9	143	ILE
56	N0	21	GLU
11	s9	134	ILE
18	c6	4	VAL
20	c8	76	PRO
30	d8	12	VAL
41	l4	145	ILE
45	l8	98	ARG
47	m0	194	GLY
48	m1	113	GLY
49	m3	159	VAL
53	m7	88	VAL
58	n2	27	VAL
69	o3	59	VAL
4	S2	234	PRO
8	S6	162	VAL
14	C2	89	ILE
25	D3	17	VAL
25	D3	96	VAL
34	SR	206	PRO
61	N5	79	GLY
4	s2	235	LEU
5	s3	81	PRO
11	s9	168	ARG
12	c0	11	ILE
13	c1	54	ILE
81	e1	130	VAL
35	sM	51	ARG
41	l4	23	PRO
72	o6	9	ILE
3	S1	43	VAL

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Mol	Chain	Res	Type
4	S2	150	GLN
22	D0	108	ILE
39	L2	98	VAL
59	N3	3	GLY
60	N4	80	ARG
61	N5	44	PRO
70	O4	89	ILE
7	s5	152	GLY
12	c0	72	GLY
15	c3	22	ALA
15	c3	52	VAL
35	sM	40	PRO
42	l5	255	PRO
46	l9	30	PRO
69	O3	104	PRO

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	S0	164/209 (78%)	117 (71%)	47 (29%)	0	3
2	s0	165/209 (79%)	123 (74%)	42 (26%)	0	4
3	S1	191/223 (86%)	139 (73%)	52 (27%)	0	3
3	s1	192/223 (86%)	147 (77%)	45 (23%)	1	5
4	S2	176/204 (86%)	126 (72%)	50 (28%)	0	3
4	s2	176/204 (86%)	119 (68%)	57 (32%)	0	2
5	S3	182/194 (94%)	133 (73%)	49 (27%)	0	3
5	s3	182/194 (94%)	131 (72%)	51 (28%)	0	3
6	S4	221/221 (100%)	170 (77%)	51 (23%)	1	5
6	s4	221/221 (100%)	165 (75%)	56 (25%)	0	4
7	S5	173/190 (91%)	136 (79%)	37 (21%)	1	7
7	s5	173/190 (91%)	125 (72%)	48 (28%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	S6	188/201 (94%)	139 (74%)	49 (26%)	0	4
8	s6	187/201 (93%)	132 (71%)	55 (29%)	0	2
9	S7	165/169 (98%)	127 (77%)	38 (23%)	1	5
9	s7	165/169 (98%)	122 (74%)	43 (26%)	0	4
10	S8	150/161 (93%)	118 (79%)	32 (21%)	1	7
10	s8	150/161 (93%)	106 (71%)	44 (29%)	0	2
11	S9	158/165 (96%)	121 (77%)	37 (23%)	1	5
11	s9	158/165 (96%)	116 (73%)	42 (27%)	0	3
12	C0	77/98 (79%)	58 (75%)	19 (25%)	0	4
12	c0	73/98 (74%)	54 (74%)	19 (26%)	0	4
13	C1	129/136 (95%)	111 (86%)	18 (14%)	3	21
13	c1	129/136 (95%)	98 (76%)	31 (24%)	0	4
14	C2	88/118 (75%)	66 (75%)	22 (25%)	0	4
14	c2	88/118 (75%)	62 (70%)	26 (30%)	0	2
15	C3	127/127 (100%)	101 (80%)	26 (20%)	1	7
15	c3	127/127 (100%)	96 (76%)	31 (24%)	0	4
16	C4	81/104 (78%)	58 (72%)	23 (28%)	0	3
16	c4	97/104 (93%)	67 (69%)	30 (31%)	0	2
17	C5	101/117 (86%)	72 (71%)	29 (29%)	0	3
17	c5	103/117 (88%)	73 (71%)	30 (29%)	0	2
18	C6	117/118 (99%)	83 (71%)	34 (29%)	0	2
18	c6	118/118 (100%)	87 (74%)	31 (26%)	0	4
19	C7	94/124 (76%)	65 (69%)	29 (31%)	0	2
19	c7	92/124 (74%)	61 (66%)	31 (34%)	0	1
20	C8	128/128 (100%)	101 (79%)	27 (21%)	1	7
20	c8	128/128 (100%)	96 (75%)	32 (25%)	0	4
21	C9	115/115 (100%)	83 (72%)	32 (28%)	0	3
21	c9	115/115 (100%)	85 (74%)	30 (26%)	0	4
22	D0	100/113 (88%)	74 (74%)	26 (26%)	0	4
22	d0	103/113 (91%)	67 (65%)	36 (35%)	0	1
23	D1	74/74 (100%)	59 (80%)	15 (20%)	1	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
23	d1	74/74 (100%)	52 (70%)	22 (30%)	0	2
24	D2	110/110 (100%)	81 (74%)	29 (26%)	0	4
24	d2	110/110 (100%)	88 (80%)	22 (20%)	1	8
25	D3	119/119 (100%)	79 (66%)	40 (34%)	0	1
25	d3	119/119 (100%)	89 (75%)	30 (25%)	0	4
26	D4	112/112 (100%)	88 (79%)	24 (21%)	1	7
26	d4	112/112 (100%)	89 (80%)	23 (20%)	1	7
27	D5	61/88 (69%)	47 (77%)	14 (23%)	1	5
27	d5	61/88 (69%)	47 (77%)	14 (23%)	1	5
28	D6	83/83 (100%)	60 (72%)	23 (28%)	0	3
28	d6	83/83 (100%)	51 (61%)	32 (39%)	0	0
29	D7	70/70 (100%)	57 (81%)	13 (19%)	1	10
29	d7	70/70 (100%)	54 (77%)	16 (23%)	1	5
30	D8	56/59 (95%)	39 (70%)	17 (30%)	0	2
30	d8	56/59 (95%)	42 (75%)	14 (25%)	0	4
31	D9	47/48 (98%)	34 (72%)	13 (28%)	0	3
31	d9	47/48 (98%)	32 (68%)	15 (32%)	0	2
32	E0	51/51 (100%)	35 (69%)	16 (31%)	0	2
33	E1	62/66 (94%)	47 (76%)	15 (24%)	0	4
34	SR	260/261 (100%)	216 (83%)	44 (17%)	2	14
34	sR	260/261 (100%)	213 (82%)	47 (18%)	1	11
35	SM	97/228 (42%)	68 (70%)	29 (30%)	0	2
35	sM	54/228 (24%)	39 (72%)	15 (28%)	0	3
39	L2	193/195 (99%)	138 (72%)	55 (28%)	0	3
39	l2	192/195 (98%)	137 (71%)	55 (29%)	0	3
40	L3	321/322 (100%)	229 (71%)	92 (29%)	0	3
40	l3	321/322 (100%)	235 (73%)	86 (27%)	0	3
41	L4	288/288 (100%)	212 (74%)	76 (26%)	0	4
41	l4	288/288 (100%)	208 (72%)	80 (28%)	0	3
42	L5	244/244 (100%)	195 (80%)	49 (20%)	1	8
42	l5	243/244 (100%)	176 (72%)	67 (28%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
43	L6	134/152 (88%)	110 (82%)	24 (18%)	2	11
43	l6	135/152 (89%)	105 (78%)	30 (22%)	1	6
44	L7	186/204 (91%)	138 (74%)	48 (26%)	0	4
44	l7	187/204 (92%)	146 (78%)	41 (22%)	1	6
45	L8	187/207 (90%)	144 (77%)	43 (23%)	1	5
45	l8	177/207 (86%)	134 (76%)	43 (24%)	0	4
46	L9	171/171 (100%)	110 (64%)	61 (36%)	0	1
46	l9	171/171 (100%)	119 (70%)	52 (30%)	0	2
47	M0	177/186 (95%)	135 (76%)	42 (24%)	1	5
47	m0	179/186 (96%)	131 (73%)	48 (27%)	0	3
48	M1	147/150 (98%)	111 (76%)	36 (24%)	0	4
48	m1	147/150 (98%)	91 (62%)	56 (38%)	0	0
49	M3	154/158 (98%)	114 (74%)	40 (26%)	0	4
49	m3	154/158 (98%)	102 (66%)	52 (34%)	0	1
50	M4	107/108 (99%)	78 (73%)	29 (27%)	0	3
50	m4	108/108 (100%)	81 (75%)	27 (25%)	0	4
51	M5	175/175 (100%)	143 (82%)	32 (18%)	1	10
51	m5	175/175 (100%)	132 (75%)	43 (25%)	0	4
52	M6	160/161 (99%)	120 (75%)	40 (25%)	0	4
52	m6	160/161 (99%)	119 (74%)	41 (26%)	0	4
53	M7	140/145 (97%)	98 (70%)	42 (30%)	0	2
53	m7	125/145 (86%)	83 (66%)	42 (34%)	0	1
54	M8	150/150 (100%)	115 (77%)	35 (23%)	1	5
54	m8	150/150 (100%)	104 (69%)	46 (31%)	0	2
55	M9	153/153 (100%)	112 (73%)	41 (27%)	0	3
55	m9	153/153 (100%)	113 (74%)	40 (26%)	0	4
56	N0	156/156 (100%)	108 (69%)	48 (31%)	0	2
56	n0	156/156 (100%)	114 (73%)	42 (27%)	0	3
57	N1	136/136 (100%)	100 (74%)	36 (26%)	0	3
57	n1	136/136 (100%)	100 (74%)	36 (26%)	0	3
58	N2	87/106 (82%)	68 (78%)	19 (22%)	1	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
58	n2	85/106 (80%)	68 (80%)	17 (20%)	1	8
59	N3	104/104 (100%)	79 (76%)	25 (24%)	0	4
59	n3	104/104 (100%)	78 (75%)	26 (25%)	0	4
60	N4	57/129 (44%)	45 (79%)	12 (21%)	1	7
60	n4	100/129 (78%)	69 (69%)	31 (31%)	0	2
61	N5	104/117 (89%)	83 (80%)	21 (20%)	1	8
61	n5	104/117 (89%)	70 (67%)	34 (33%)	0	2
62	N6	109/109 (100%)	80 (73%)	29 (27%)	0	3
62	n6	109/109 (100%)	75 (69%)	34 (31%)	0	2
63	N7	115/115 (100%)	92 (80%)	23 (20%)	1	8
63	n7	115/115 (100%)	93 (81%)	22 (19%)	1	9
64	N8	118/118 (100%)	95 (80%)	23 (20%)	1	9
64	n8	118/118 (100%)	85 (72%)	33 (28%)	0	3
65	N9	46/46 (100%)	30 (65%)	16 (35%)	0	1
65	n9	46/46 (100%)	23 (50%)	23 (50%)	0	0
66	O0	81/87 (93%)	62 (76%)	19 (24%)	1	5
66	o0	84/87 (97%)	54 (64%)	30 (36%)	0	1
67	O1	92/96 (96%)	67 (73%)	25 (27%)	0	3
67	o1	94/96 (98%)	67 (71%)	27 (29%)	0	3
68	O2	109/110 (99%)	73 (67%)	36 (33%)	0	2
68	o2	109/110 (99%)	78 (72%)	31 (28%)	0	3
69	O3	90/90 (100%)	71 (79%)	19 (21%)	1	7
69	o3	90/90 (100%)	62 (69%)	28 (31%)	0	2
70	O4	95/101 (94%)	66 (70%)	29 (30%)	0	2
70	o4	95/101 (94%)	70 (74%)	25 (26%)	0	4
71	O5	104/104 (100%)	69 (66%)	35 (34%)	0	1
71	o5	103/104 (99%)	77 (75%)	26 (25%)	0	4
72	O6	81/81 (100%)	56 (69%)	25 (31%)	0	2
72	o6	80/81 (99%)	55 (69%)	25 (31%)	0	2
73	O7	70/70 (100%)	51 (73%)	19 (27%)	0	3
73	o7	70/70 (100%)	48 (69%)	22 (31%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
74	O8	68/68 (100%)	53 (78%)	15 (22%)	1	6
74	o8	67/68 (98%)	52 (78%)	15 (22%)	1	6
75	O9	45/45 (100%)	35 (78%)	10 (22%)	1	6
75	o9	45/45 (100%)	34 (76%)	11 (24%)	0	4
76	Q0	47/47 (100%)	36 (77%)	11 (23%)	1	5
76	q0	47/47 (100%)	33 (70%)	14 (30%)	0	2
77	Q1	23/23 (100%)	15 (65%)	8 (35%)	0	1
77	q1	23/23 (100%)	14 (61%)	9 (39%)	0	0
78	Q2	90/90 (100%)	65 (72%)	25 (28%)	0	3
78	q2	90/90 (100%)	58 (64%)	32 (36%)	0	1
79	Q3	71/71 (100%)	54 (76%)	17 (24%)	0	4
79	q3	71/71 (100%)	49 (69%)	22 (31%)	0	2
80	e0	53/53 (100%)	41 (77%)	12 (23%)	1	6
81	e1	66/66 (100%)	41 (62%)	25 (38%)	0	1
83	p0	105/253 (42%)	79 (75%)	26 (25%)	0	4
All	All	18730/20239 (92%)	13794 (74%)	4936 (26%)	0	4

All (4936) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	6	THR
2	S0	7	PHE
2	S0	8	ASP
2	S0	16	LEU
2	S0	21	ASN
2	S0	22	THR
2	S0	27	ARG
2	S0	34	GLU
2	S0	37	VAL
2	S0	43	ASP
2	S0	45	VAL
2	S0	50	VAL
2	S0	62	ARG
2	S0	84	ARG
2	S0	87	LEU
2	S0	88	LYS
2	S0	96	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	S0	98	ILE
2	S0	101	ARG
2	S0	103	THR
2	S0	106	SER
2	S0	110	TYR
2	S0	111	ILE
2	S0	124	THR
2	S0	129	ASP
2	S0	135	GLU
2	S0	137	SER
2	S0	141	ILE
2	S0	143	VAL
2	S0	146	LEU
2	S0	150	ASP
2	S0	156	VAL
2	S0	157	ASP
2	S0	165	ARG
2	S0	169	SER
2	S0	170	ILE
2	S0	172	LEU
2	S0	177	LEU
2	S0	181	VAL
2	S0	184	LEU
2	S0	185	ARG
2	S0	188	LEU
2	S0	189	VAL
2	S0	196	SER
2	S0	197	ILE
2	S0	198	MET
2	S0	203	PHE
3	S1	21	VAL
3	S1	25	THR
3	S1	37	THR
3	S1	38	PHE
3	S1	40	ASN
3	S1	46	THR
3	S1	59	ASP
3	S1	61	LEU
3	S1	70	LEU
3	S1	73	LEU
3	S1	78	ASP
3	S1	80	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	S1	81	PHE
3	S1	82	ARG
3	S1	85	LYS
3	S1	89	ASP
3	S1	95	ASN
3	S1	96	LEU
3	S1	97	LEU
3	S1	101	HIS
3	S1	104	ASP
3	S1	105	PHE
3	S1	111	ARG
3	S1	119	THR
3	S1	125	VAL
3	S1	129	THR
3	S1	130	SER
3	S1	131	ASP
3	S1	137	ILE
3	S1	149	GLN
3	S1	154	SER
3	S1	155	TYR
3	S1	169	SER
3	S1	173	THR
3	S1	176	VAL
3	S1	177	GLN
3	S1	180	THR
3	S1	181	LEU
3	S1	186	SER
3	S1	188	LEU
3	S1	191	GLU
3	S1	193	ILE
3	S1	198	GLU
3	S1	199	ASN
3	S1	202	LYS
3	S1	212	VAL
3	S1	214	LYS
3	S1	218	LEU
3	S1	219	LYS
3	S1	220	GLN
3	S1	223	PHE
3	S1	228	LEU
4	S2	38	VAL
4	S2	41	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	S2	53	ILE
4	S2	54	GLU
4	S2	60	SER
4	S2	61	LEU
4	S2	70	ASP
4	S2	72	LEU
4	S2	76	LEU
4	S2	77	GLN
4	S2	86	VAL
4	S2	87	GLN
4	S2	89	GLN
4	S2	90	THR
4	S2	95	ARG
4	S2	96	THR
4	S2	97	ARG
4	S2	111	VAL
4	S2	113	LEU
4	S2	117	THR
4	S2	125	ILE
4	S2	131	ILE
4	S2	134	LEU
4	S2	137	ILE
4	S2	139	ILE
4	S2	141	ARG
4	S2	146	THR
4	S2	148	LEU
4	S2	150	GLN
4	S2	152	HIS
4	S2	153	SER
4	S2	158	THR
4	S2	166	THR
4	S2	168	ARG
4	S2	174	ARG
4	S2	187	LEU
4	S2	188	LEU
4	S2	201	ASN
4	S2	205	ARG
4	S2	207	LEU
4	S2	218	ILE
4	S2	222	TYR
4	S2	224	PHE
4	S2	229	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	S2	234	PRO
4	S2	236	PRO
4	S2	237	VAL
4	S2	242	ILE
4	S2	246	GLU
4	S2	248	SER
5	S3	4	LEU
5	S3	6	SER
5	S3	7	LYS
5	S3	9	ARG
5	S3	16	VAL
5	S3	21	LEU
5	S3	26	THR
5	S3	37	VAL
5	S3	38	GLU
5	S3	39	VAL
5	S3	42	THR
5	S3	44	THR
5	S3	57	ASP
5	S3	65	ARG
5	S3	66	ILE
5	S3	67	ASN
5	S3	76	ARG
5	S3	79	TYR
5	S3	84	ILE
5	S3	92	GLN
5	S3	93	ASP
5	S3	94	ARG
5	S3	99	VAL
5	S3	108	LYS
5	S3	113	LEU
5	S3	115	ILE
5	S3	117	ARG
5	S3	127	MET
5	S3	128	GLU
5	S3	137	VAL
5	S3	139	SER
5	S3	143	ARG
5	S3	158	ILE
5	S3	160	SER
5	S3	169	ASP
5	S3	172	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	S3	175	VAL
5	S3	176	LEU
5	S3	178	ARG
5	S3	181	VAL
5	S3	182	LEU
5	S3	187	LYS
5	S3	190	ARG
5	S3	204	ASP
5	S3	207	THR
5	S3	212	LYS
5	S3	218	LEU
5	S3	221	SER
5	S3	224	ASP
6	S4	7	LYS
6	S4	9	LEU
6	S4	12	LEU
6	S4	21	ASP
6	S4	22	LYS
6	S4	38	LEU
6	S4	39	ARG
6	S4	42	LEU
6	S4	45	ILE
6	S4	49	ARG
6	S4	54	TYR
6	S4	68	ARG
6	S4	69	HIS
6	S4	71	LYS
6	S4	77	ARG
6	S4	88	ASP
6	S4	102	VAL
6	S4	105	VAL
6	S4	108	ARG
6	S4	109	PHE
6	S4	131	LEU
6	S4	133	LYS
6	S4	140	VAL
6	S4	143	ASP
6	S4	162	ILE
6	S4	174	LYS
6	S4	176	ASP
6	S4	180	LEU
6	S4	182	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
6	S4	187	ARG
6	S4	189	LEU
6	S4	191	ARG
6	S4	199	GLU
6	S4	200	ARG
6	S4	211	LYS
6	S4	217	THR
6	S4	219	VAL
6	S4	221	ARG
6	S4	226	PHE
6	S4	227	VAL
6	S4	228	ILE
6	S4	240	LYS
6	S4	242	LYS
6	S4	244	ILE
6	S4	246	LEU
6	S4	248	ILE
6	S4	252	ARG
6	S4	253	ASP
6	S4	256	ARG
6	S4	259	GLN
6	S4	261	LEU
7	S5	23	VAL
7	S5	25	LEU
7	S5	32	GLU
7	S5	41	LYS
7	S5	43	PHE
7	S5	45	LYS
7	S5	48	PHE
7	S5	49	GLU
7	S5	52	GLU
7	S5	65	ARG
7	S5	66	GLN
7	S5	70	VAL
7	S5	76	ARG
7	S5	83	ARG
7	S5	86	GLN
7	S5	87	CYS
7	S5	89	ILE
7	S5	97	LEU
7	S5	112	ARG
7	S5	114	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	S5	119	ASP
7	S5	122	ASN
7	S5	130	ILE
7	S5	131	GLN
7	S5	139	ASN
7	S5	147	THR
7	S5	148	ARG
7	S5	149	VAL
7	S5	156	ARG
7	S5	157	ARG
7	S5	160	VAL
7	S5	165	LEU
7	S5	170	GLN
7	S5	188	LYS
7	S5	194	LEU
7	S5	196	GLU
7	S5	216	GLU
8	S6	2	LYS
8	S6	5	ILE
8	S6	7	TYR
8	S6	15	THR
8	S6	18	ILE
8	S6	21	GLU
8	S6	25	ARG
8	S6	29	ASP
8	S6	30	LYS
8	S6	34	GLN
8	S6	37	ASP
8	S6	45	PHE
8	S6	67	VAL
8	S6	71	THR
8	S6	72	ARG
8	S6	74	LYS
8	S6	76	LEU
8	S6	78	THR
8	S6	98	ARG
8	S6	108	VAL
8	S6	115	LYS
8	S6	124	LEU
8	S6	125	THR
8	S6	127	THR
8	S6	128	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	S6	132	ARG
8	S6	133	LEU
8	S6	137	ARG
8	S6	141	ILE
8	S6	142	ARG
8	S6	150	GLU
8	S6	151	ASP
8	S6	154	ARG
8	S6	163	THR
8	S6	164	LYS
8	S6	169	TYR
8	S6	170	THR
8	S6	175	ILE
8	S6	176	GLN
8	S6	177	ARG
8	S6	180	THR
8	S6	182	GLN
8	S6	184	LEU
8	S6	193	LEU
8	S6	201	GLN
8	S6	202	ARG
8	S6	211	LEU
8	S6	216	LEU
8	S6	223	LYS
9	S7	11	GLN
9	S7	14	THR
9	S7	20	VAL
9	S7	34	LEU
9	S7	37	GLU
9	S7	38	LEU
9	S7	50	ASP
9	S7	77	LEU
9	S7	79	ARG
9	S7	80	GLU
9	S7	85	PHE
9	S7	97	ARG
9	S7	103	SER
9	S7	108	GLN
9	S7	109	VAL
9	S7	110	GLN
9	S7	112	ARG
9	S7	113	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
9	S7	114	ARG
9	S7	115	SER
9	S7	116	ARG
9	S7	118	LEU
9	S7	130	VAL
9	S7	131	PHE
9	S7	136	VAL
9	S7	139	ARG
9	S7	141	ARG
9	S7	144	VAL
9	S7	147	ASN
9	S7	152	VAL
9	S7	156	SER
9	S7	157	LYS
9	S7	160	GLN
9	S7	168	SER
9	S7	174	ASN
9	S7	180	GLN
9	S7	181	ILE
9	S7	185	ILE
10	S8	3	ILE
10	S8	7	SER
10	S8	8	ARG
10	S8	9	HIS
10	S8	11	ARG
10	S8	20	GLN
10	S8	21	PHE
10	S8	22	ARG
10	S8	23	LYS
10	S8	25	ARG
10	S8	26	LYS
10	S8	29	LEU
10	S8	31	ARG
10	S8	36	THR
10	S8	48	THR
10	S8	58	LEU
10	S8	60	ILE
10	S8	72	ILE
10	S8	95	THR
10	S8	97	THR
10	S8	110	ARG
10	S8	121	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
10	S8	138	ASN
10	S8	140	GLU
10	S8	142	LYS
10	S8	151	LYS
10	S8	152	ILE
10	S8	154	SER
10	S8	172	ARG
10	S8	176	SER
10	S8	178	ARG
10	S8	194	ARG
11	S9	3	ARG
11	S9	6	ARG
11	S9	7	THR
11	S9	14	THR
11	S9	21	SER
11	S9	22	SER
11	S9	28	LEU
11	S9	36	LEU
11	S9	40	LYS
11	S9	58	ASP
11	S9	60	LEU
11	S9	69	ARG
11	S9	78	ARG
11	S9	80	LEU
11	S9	88	GLU
11	S9	89	ASP
11	S9	91	LYS
11	S9	93	LEU
11	S9	95	TYR
11	S9	109	LEU
11	S9	113	VAL
11	S9	120	LYS
11	S9	130	THR
11	S9	134	ILE
11	S9	138	LYS
11	S9	140	ILE
11	S9	145	SER
11	S9	149	ARG
11	S9	155	HIS
11	S9	156	ILE
11	S9	157	ASP
11	S9	161	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
11	S9	171	ARG
11	S9	172	VAL
11	S9	180	LYS
11	S9	182	GLU
11	S9	186	GLU
12	C0	5	LYS
12	C0	8	ARG
12	C0	26	ASP
12	C0	27	PHE
12	C0	31	LYS
12	C0	32	HIS
12	C0	47	GLN
12	C0	52	LYS
12	C0	55	VAL
12	C0	56	LYS
12	C0	65	TYR
12	C0	68	LEU
12	C0	69	THR
12	C0	70	GLU
12	C0	74	GLU
12	C0	76	LEU
12	C0	77	ARG
12	C0	78	GLU
12	C0	82	LEU
13	C1	11	ARG
13	C1	29	LYS
13	C1	37	ASN
13	C1	44	THR
13	C1	63	LEU
13	C1	67	ARG
13	C1	69	LYS
13	C1	74	THR
13	C1	76	VAL
13	C1	80	MET
13	C1	83	THR
13	C1	87	ARG
13	C1	99	ARG
13	C1	108	PRO
13	C1	112	SER
13	C1	115	PHE
13	C1	131	ILE
13	C1	134	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
14	C2	28	LEU
14	C2	30	VAL
14	C2	39	ASP
14	C2	43	ARG
14	C2	46	ARG
14	C2	54	ARG
14	C2	62	LEU
14	C2	64	SER
14	C2	71	ILE
14	C2	73	LYS
14	C2	81	ASP
14	C2	83	GLU
14	C2	89	ILE
14	C2	97	LEU
14	C2	103	LEU
14	C2	121	VAL
14	C2	124	LYS
14	C2	126	TRP
14	C2	131	ASP
14	C2	135	MET
14	C2	137	MET
14	C2	139	HIS
15	C3	9	LYS
15	C3	16	ILE
15	C3	27	LYS
15	C3	30	SER
15	C3	35	GLU
15	C3	39	LYS
15	C3	45	LEU
15	C3	61	THR
15	C3	64	ARG
15	C3	66	ILE
15	C3	72	MET
15	C3	76	LYS
15	C3	83	GLU
15	C3	84	ILE
15	C3	97	SER
15	C3	102	LEU
15	C3	105	ASN
15	C3	114	ARG
15	C3	115	LEU
15	C3	121	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
15	C3	125	LEU
15	C3	127	ARG
15	C3	132	VAL
15	C3	134	VAL
15	C3	135	LEU
15	C3	149	LEU
16	C4	13	VAL
16	C4	16	VAL
16	C4	24	ASN
16	C4	26	THR
16	C4	29	HIS
16	C4	31	THR
16	C4	39	ILE
16	C4	42	VAL
16	C4	43	THR
16	C4	51	ASP
16	C4	52	ARG
16	C4	55	SER
16	C4	56	SER
16	C4	86	THR
16	C4	92	LYS
16	C4	103	ARG
16	C4	111	ARG
16	C4	119	THR
16	C4	123	SER
16	C4	126	THR
16	C4	132	ARG
16	C4	133	ARG
16	C4	137	LEU
17	C5	13	LYS
17	C5	14	THR
17	C5	18	ARG
17	C5	20	VAL
17	C5	22	LEU
17	C5	29	SER
17	C5	32	ASP
17	C5	34	VAL
17	C5	36	LEU
17	C5	40	ARG
17	C5	43	ARG
17	C5	52	LYS
17	C5	58	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
17	C5	60	LEU
17	C5	78	THR
17	C5	84	ILE
17	C5	86	VAL
17	C5	89	MET
17	C5	93	VAL
17	C5	106	GLU
17	C5	108	ARG
17	C5	110	GLU
17	C5	111	MET
17	C5	120	SER
17	C5	123	TYR
17	C5	124	THR
17	C5	125	PRO
17	C5	127	ARG
17	C5	128	HIS
18	C6	4	VAL
18	C6	7	VAL
18	C6	14	LYS
18	C6	15	SER
18	C6	17	THR
18	C6	28	LEU
18	C6	34	SER
18	C6	36	ILE
18	C6	40	GLU
18	C6	43	ILE
18	C6	52	LEU
18	C6	54	LEU
18	C6	57	LEU
18	C6	59	LYS
18	C6	66	ARG
18	C6	68	ARG
18	C6	69	VAL
18	C6	70	THR
18	C6	76	SER
18	C6	93	HIS
18	C6	97	VAL
18	C6	98	ASP
18	C6	104	GLU
18	C6	109	PHE
18	C6	110	THR
18	C6	114	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
18	C6	116	LEU
18	C6	118	ILE
18	C6	123	ARG
18	C6	125	GLU
18	C6	136	SER
18	C6	137	ARG
18	C6	138	PHE
18	C6	143	ARG
19	C7	3	ARG
19	C7	5	ARG
19	C7	6	THR
19	C7	8	THR
19	C7	16	LEU
19	C7	26	LEU
19	C7	29	GLN
19	C7	34	LEU
19	C7	36	ASP
19	C7	37	GLU
19	C7	38	ILE
19	C7	40	THR
19	C7	43	SER
19	C7	49	LYS
19	C7	54	THR
19	C7	55	THR
19	C7	57	LEU
19	C7	62	GLN
19	C7	69	ILE
19	C7	72	LYS
19	C7	76	GLU
19	C7	77	GLU
19	C7	78	ARG
19	C7	83	GLN
19	C7	86	PRO
19	C7	88	VAL
19	C7	105	GLN
19	C7	115	LEU
19	C7	119	LEU
20	C8	3	LEU
20	C8	11	PHE
20	C8	13	HIS
20	C8	14	ILE
20	C8	15	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
20	C8	16	ARG
20	C8	28	ILE
20	C8	32	LEU
20	C8	38	VAL
20	C8	40	ARG
20	C8	44	ASN
20	C8	61	LEU
20	C8	63	GLN
20	C8	71	GLN
20	C8	77	THR
20	C8	80	LYS
20	C8	86	LEU
20	C8	88	ARG
20	C8	90	ASN
20	C8	92	ILE
20	C8	98	TYR
20	C8	100	THR
20	C8	105	VAL
20	C8	108	LYS
20	C8	132	ARG
20	C8	136	GLN
20	C8	143	ARG
21	C9	4	VAL
21	C9	13	ASP
21	C9	15	ILE
21	C9	16	ASN
21	C9	18	TYR
21	C9	22	LEU
21	C9	28	LEU
21	C9	29	GLU
21	C9	30	VAL
21	C9	33	TYR
21	C9	35	ASP
21	C9	36	ILE
21	C9	37	VAL
21	C9	39	THR
21	C9	54	PHE
21	C9	57	ARG
21	C9	66	TYR
21	C9	70	GLN
21	C9	71	VAL
21	C9	75	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
21	C9	84	LYS
21	C9	88	VAL
21	C9	89	ARG
21	C9	94	ILE
21	C9	100	ILE
21	C9	124	ILE
21	C9	130	ARG
21	C9	134	ARG
21	C9	139	THR
21	C9	140	LEU
21	C9	142	GLU
21	C9	144	GLU
22	D0	16	GLN
22	D0	17	GLN
22	D0	18	GLN
22	D0	19	ILE
22	D0	22	ILE
22	D0	23	ARG
22	D0	27	THR
22	D0	31	VAL
22	D0	39	SER
22	D0	40	ASN
22	D0	42	VAL
22	D0	47	GLN
22	D0	57	ARG
22	D0	61	LYS
22	D0	64	LYS
22	D0	74	GLU
22	D0	76	SER
22	D0	80	GLU
22	D0	81	THR
22	D0	84	MET
22	D0	85	ARG
22	D0	89	ARG
22	D0	99	ILE
22	D0	100	VAL
22	D0	103	ILE
22	D0	121	ASN
23	D1	5	LYS
23	D1	7	GLN
23	D1	16	LYS
23	D1	17	CYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	D1	27	ASP
23	D1	31	SER
23	D1	41	GLU
23	D1	44	ARG
23	D1	51	VAL
23	D1	52	THR
23	D1	62	ARG
23	D1	75	ASN
23	D1	76	ASP
23	D1	78	LEU
23	D1	80	LYS
24	D2	4	SER
24	D2	7	LEU
24	D2	19	LYS
24	D2	20	THR
24	D2	22	LYS
24	D2	24	GLN
24	D2	25	VAL
24	D2	26	LEU
24	D2	36	LYS
24	D2	37	PHE
24	D2	53	ILE
24	D2	65	LEU
24	D2	68	ARG
24	D2	72	CYS
24	D2	76	SER
24	D2	81	VAL
24	D2	82	LYS
24	D2	93	LEU
24	D2	97	ARG
24	D2	99	PHE
24	D2	103	ILE
24	D2	104	LEU
24	D2	107	SER
24	D2	110	ILE
24	D2	111	MET
24	D2	121	VAL
24	D2	124	LYS
24	D2	126	LEU
24	D2	129	VAL
25	D3	7	ARG
25	D3	9	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	D3	14	LYS
25	D3	17	VAL
25	D3	19	ARG
25	D3	30	LYS
25	D3	34	LEU
25	D3	38	PHE
25	D3	40	SER
25	D3	43	PHE
25	D3	54	LEU
25	D3	57	LEU
25	D3	59	ILE
25	D3	63	GLN
25	D3	70	LYS
25	D3	72	VAL
25	D3	74	VAL
25	D3	77	ILE
25	D3	78	LYS
25	D3	82	LYS
25	D3	83	VAL
25	D3	84	THR
25	D3	86	PHE
25	D3	87	VAL
25	D3	94	ASN
25	D3	96	VAL
25	D3	99	ASN
25	D3	100	ASP
25	D3	107	PHE
25	D3	109	ARG
25	D3	110	LYS
25	D3	114	LYS
25	D3	116	ASP
25	D3	117	ILE
25	D3	126	LYS
25	D3	130	VAL
25	D3	132	LEU
25	D3	133	LEU
25	D3	138	GLU
25	D3	140	LYS
26	D4	2	SER
26	D4	3	ASP
26	D4	5	VAL
26	D4	8	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
26	D4	10	ARG
26	D4	11	LYS
26	D4	14	SER
26	D4	17	LEU
26	D4	21	LYS
26	D4	32	ARG
26	D4	34	ASN
26	D4	51	GLU
26	D4	61	ARG
26	D4	62	THR
26	D4	63	GLN
26	D4	77	ASN
26	D4	79	VAL
26	D4	100	VAL
26	D4	102	LYS
26	D4	111	LYS
26	D4	123	LYS
26	D4	124	ARG
26	D4	127	LYS
26	D4	129	VAL
27	D5	40	VAL
27	D5	42	LEU
27	D5	63	SER
27	D5	69	LEU
27	D5	71	ILE
27	D5	75	LEU
27	D5	77	ARG
27	D5	84	GLU
27	D5	85	LYS
27	D5	88	ILE
27	D5	92	ILE
27	D5	95	HIS
27	D5	98	GLN
27	D5	100	ILE
28	D6	5	ARG
28	D6	30	ILE
28	D6	36	ILE
28	D6	38	ARG
28	D6	41	ILE
28	D6	44	ILE
28	D6	45	VAL
28	D6	46	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
28	D6	53	LEU
28	D6	57	SER
28	D6	58	VAL
28	D6	61	GLU
28	D6	64	LEU
28	D6	66	LYS
28	D6	68	TYR
28	D6	69	ASN
28	D6	76	SER
28	D6	77	CYS
28	D6	82	ARG
28	D6	86	VAL
28	D6	88	SER
28	D6	89	ARG
28	D6	91	ASP
29	D7	3	LEU
29	D7	8	LEU
29	D7	15	GLU
29	D7	23	THR
29	D7	33	LEU
29	D7	34	ASP
29	D7	35	VAL
29	D7	52	THR
29	D7	55	THR
29	D7	57	GLU
29	D7	58	SER
29	D7	63	LEU
29	D7	73	LEU
30	D8	7	VAL
30	D8	8	THR
30	D8	14	LYS
30	D8	19	THR
30	D8	28	VAL
30	D8	29	ARG
30	D8	30	VAL
30	D8	32	PHE
30	D8	33	LEU
30	D8	34	GLU
30	D8	36	THR
30	D8	39	THR
30	D8	49	ARG
30	D8	55	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
30	D8	58	GLU
30	D8	64	ARG
30	D8	65	ARG
31	D9	5	ASN
31	D9	8	PHE
31	D9	10	HIS
31	D9	12	ARG
31	D9	19	ARG
31	D9	20	GLN
31	D9	21	CYS
31	D9	23	VAL
31	D9	27	HIS
31	D9	28	THR
31	D9	30	LEU
31	D9	31	ILE
31	D9	41	GLN
32	E0	3	LYS
32	E0	14	VAL
32	E0	16	SER
32	E0	20	LYS
32	E0	21	VAL
32	E0	22	GLU
32	E0	24	THR
32	E0	26	LYS
32	E0	38	LEU
32	E0	39	LEU
32	E0	42	ARG
32	E0	48	THR
32	E0	49	LEU
32	E0	50	VAL
32	E0	55	ARG
32	E0	56	MET
33	E1	82	LYS
33	E1	84	VAL
33	E1	91	ILE
33	E1	97	LYS
33	E1	103	LEU
33	E1	108	VAL
33	E1	109	ASP
33	E1	115	THR
33	E1	118	ARG
33	E1	130	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	E1	134	ASN
33	E1	137	ASP
33	E1	140	TYR
33	E1	149	LYS
33	E1	150	VAL
34	SR	6	VAL
34	SR	9	LEU
34	SR	10	ARG
34	SR	16	HIS
34	SR	25	THR
34	SR	26	SER
34	SR	29	GLN
34	SR	32	LEU
34	SR	51	ASP
34	SR	52	GLN
34	SR	58	VAL
34	SR	60	SER
34	SR	66	HIS
34	SR	70	ASP
34	SR	72	THR
34	SR	73	LEU
34	SR	76	ASP
34	SR	87	LYS
34	SR	96	THR
34	SR	103	PHE
34	SR	110	VAL
34	SR	117	LYS
34	SR	135	THR
34	SR	140	CYS
34	SR	144	LEU
34	SR	149	ASP
34	SR	152	SER
34	SR	153	GLN
34	SR	154	VAL
34	SR	178	VAL
34	SR	191	ASP
34	SR	200	ASN
34	SR	216	LYS
34	SR	220	ILE
34	SR	238	ASP
34	SR	242	SER
34	SR	246	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	SR	263	PHE
34	SR	272	ASP
34	SR	283	LYS
34	SR	288	HIS
34	SR	314	GLN
34	SR	317	THR
34	SR	319	ASN
35	SM	25	ILE
35	SM	27	LYS
35	SM	28	SER
35	SM	30	THR
35	SM	43	ASP
35	SM	45	SER
35	SM	48	ARG
35	SM	50	ASN
35	SM	55	SER
35	SM	62	ARG
35	SM	74	LYS
35	SM	78	ASP
35	SM	81	THR
35	SM	82	THR
35	SM	83	LYS
35	SM	84	LYS
35	SM	85	SER
35	SM	87	THR
35	SM	88	ARG
35	SM	89	ARG
35	SM	91	THR
35	SM	92	ASP
35	SM	100	THR
35	SM	102	THR
35	SM	106	VAL
35	SM	112	ASP
35	SM	113	ASP
35	SM	115	LYS
35	SM	120	GLU
39	L2	8	GLN
39	L2	17	THR
39	L2	18	SER
39	L2	19	HIS
39	L2	21	ARG
39	L2	29	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	L2	31	THR
39	L2	32	LEU
39	L2	37	ARG
39	L2	41	ILE
39	L2	44	ILE
39	L2	45	VAL
39	L2	49	VAL
39	L2	52	SER
39	L2	62	VAL
39	L2	68	LYS
39	L2	70	ARG
39	L2	71	LEU
39	L2	74	GLU
39	L2	79	ASN
39	L2	84	THR
39	L2	86	GLN
39	L2	88	ILE
39	L2	96	LEU
39	L2	97	ASN
39	L2	98	VAL
39	L2	101	VAL
39	L2	104	LEU
39	L2	109	GLU
39	L2	114	SER
39	L2	118	GLU
39	L2	122	ASP
39	L2	137	ILE
39	L2	142	ASP
39	L2	143	GLU
39	L2	148	VAL
39	L2	152	SER
39	L2	157	VAL
39	L2	158	ILE
39	L2	163	ARG
39	L2	168	VAL
39	L2	175	VAL
39	L2	179	LEU
39	L2	181	LYS
39	L2	192	LYS
39	L2	199	THR
39	L2	200	ARG
39	L2	204	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	L2	207	VAL
39	L2	227	ARG
39	L2	230	VAL
39	L2	242	ARG
39	L2	245	LEU
39	L2	250	GLN
39	L2	251	LYS
40	L3	3	HIS
40	L3	10	ARG
40	L3	17	LEU
40	L3	19	ARG
40	L3	25	ILE
40	L3	34	LYS
40	L3	37	ARG
40	L3	39	LYS
40	L3	40	PRO
40	L3	43	LEU
40	L3	47	LEU
40	L3	50	LYS
40	L3	56	ILE
40	L3	58	ARG
40	L3	67	PHE
40	L3	73	VAL
40	L3	76	VAL
40	L3	77	THR
40	L3	80	ASP
40	L3	83	PRO
40	L3	84	VAL
40	L3	85	VAL
40	L3	87	VAL
40	L3	97	ARG
40	L3	102	LEU
40	L3	109	HIS
40	L3	114	VAL
40	L3	116	ARG
40	L3	126	LYS
40	L3	128	LYS
40	L3	134	SER
40	L3	139	GLN
40	L3	144	ILE
40	L3	147	GLU
40	L3	150	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	L3	156	SER
40	L3	157	VAL
40	L3	159	ARG
40	L3	167	ARG
40	L3	168	LYS
40	L3	169	THR
40	L3	184	ASN
40	L3	187	SER
40	L3	188	ILE
40	L3	192	VAL
40	L3	201	LYS
40	L3	205	VAL
40	L3	206	ASP
40	L3	210	GLU
40	L3	211	GLN
40	L3	212	ASN
40	L3	215	ILE
40	L3	216	ASP
40	L3	226	PHE
40	L3	229	VAL
40	L3	230	THR
40	L3	232	ARG
40	L3	235	THR
40	L3	236	LYS
40	L3	241	LYS
40	L3	242	THR
40	L3	246	LEU
40	L3	248	LYS
40	L3	261	MET
40	L3	264	VAL
40	L3	270	ARG
40	L3	272	TYR
40	L3	274	SER
40	L3	284	ARG
40	L3	287	LYS
40	L3	291	GLU
40	L3	297	SER
40	L3	305	ILE
40	L3	319	ASN
40	L3	320	ASP
40	L3	324	VAL
40	L3	327	CYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	L3	328	ILE
40	L3	332	ARG
40	L3	335	ILE
40	L3	337	THR
40	L3	342	LEU
40	L3	344	THR
40	L3	351	LEU
40	L3	353	GLU
40	L3	356	LEU
40	L3	359	ILE
40	L3	364	LYS
40	L3	370	PHE
40	L3	372	THR
40	L3	379	PHE
40	L3	382	THR
41	L4	6	VAL
41	L4	11	LEU
41	L4	22	LEU
41	L4	25	VAL
41	L4	27	SER
41	L4	30	ILE
41	L4	35	VAL
41	L4	39	PHE
41	L4	44	LYS
41	L4	60	THR
41	L4	63	GLU
41	L4	67	THR
41	L4	71	VAL
41	L4	73	ARG
41	L4	74	ILE
41	L4	77	VAL
41	L4	92	ASN
41	L4	93	MET
41	L4	95	ARG
41	L4	99	MET
41	L4	105	THR
41	L4	107	ARG
41	L4	112	LYS
41	L4	120	TYR
41	L4	124	SER
41	L4	138	ARG
41	L4	148	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	L4	150	LEU
41	L4	151	VAL
41	L4	154	THR
41	L4	159	ILE
41	L4	176	SER
41	L4	178	LEU
41	L4	179	LEU
41	L4	180	LYS
41	L4	182	LEU
41	L4	187	LEU
41	L4	188	ARG
41	L4	193	LYS
41	L4	194	TYR
41	L4	198	ARG
41	L4	200	THR
41	L4	220	ARG
41	L4	222	VAL
41	L4	223	PRO
41	L4	227	THR
41	L4	230	VAL
41	L4	244	LEU
41	L4	246	ARG
41	L4	256	THR
41	L4	259	ASP
41	L4	275	THR
41	L4	278	SER
41	L4	281	ILE
41	L4	282	SER
41	L4	283	THR
41	L4	287	THR
41	L4	292	SER
41	L4	297	SER
41	L4	300	ARG
41	L4	311	HIS
41	L4	313	LEU
41	L4	314	LYS
41	L4	321	LYS
41	L4	323	VAL
41	L4	324	LEU
41	L4	326	ARG
41	L4	327	LEU
41	L4	339	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	L4	345	GLU
41	L4	346	LYS
41	L4	347	THR
41	L4	349	THR
41	L4	350	LYS
41	L4	354	VAL
41	L4	362	ASP
42	L5	8	LYS
42	L5	9	SER
42	L5	19	PRO
42	L5	23	ARG
42	L5	32	GLN
42	L5	33	ARG
42	L5	35	ARG
42	L5	41	LYS
42	L5	50	ARG
42	L5	52	VAL
42	L5	64	ILE
42	L5	66	SER
42	L5	69	ILE
42	L5	70	THR
42	L5	80	SER
42	L5	81	HIS
42	L5	92	LEU
42	L5	94	ASN
42	L5	95	TRP
42	L5	105	ILE
42	L5	110	LEU
42	L5	112	LYS
42	L5	115	LEU
42	L5	117	GLU
42	L5	125	VAL
42	L5	131	LEU
42	L5	135	VAL
42	L5	140	ARG
42	L5	146	LEU
42	L5	151	GLN
42	L5	163	LEU
42	L5	168	ASP
42	L5	185	PHE
42	L5	188	GLU
42	L5	189	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	L5	194	LEU
42	L5	196	ARG
42	L5	207	TYR
42	L5	217	GLU
42	L5	219	PHE
42	L5	220	SER
42	L5	222	LEU
42	L5	231	ILE
42	L5	232	ASP
42	L5	257	GLU
42	L5	259	LYS
42	L5	263	GLU
42	L5	264	GLN
42	L5	276	LYS
43	L6	4	GLN
43	L6	5	LYS
43	L6	19	LYS
43	L6	21	THR
43	L6	29	LYS
43	L6	41	ILE
43	L6	46	ARG
43	L6	52	VAL
43	L6	65	ILE
43	L6	78	ARG
43	L6	84	VAL
43	L6	88	SER
43	L6	89	THR
43	L6	92	SER
43	L6	98	VAL
43	L6	99	GLU
43	L6	129	GLU
43	L6	134	ARG
43	L6	146	ILE
43	L6	151	LYS
43	L6	154	LEU
43	L6	155	LEU
43	L6	163	PHE
43	L6	174	LEU
44	L7	24	GLU
44	L7	25	GLN
44	L7	29	GLU
44	L7	30	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	L7	33	ARG
44	L7	34	LYS
44	L7	38	LYS
44	L7	39	GLU
44	L7	40	LYS
44	L7	43	ILE
44	L7	44	ILE
44	L7	47	ARG
44	L7	59	GLU
44	L7	60	ARG
44	L7	63	ILE
44	L7	77	VAL
44	L7	80	GLN
44	L7	83	LEU
44	L7	88	ARG
44	L7	89	ILE
44	L7	92	ILE
44	L7	97	PRO
44	L7	98	LYS
44	L7	101	LYS
44	L7	110	ARG
44	L7	112	ASN
44	L7	113	SER
44	L7	121	LYS
44	L7	123	THR
44	L7	124	LEU
44	L7	127	LEU
44	L7	134	VAL
44	L7	153	PHE
44	L7	157	ASN
44	L7	158	LYS
44	L7	160	ARG
44	L7	163	LEU
44	L7	164	SER
44	L7	179	LEU
44	L7	181	ILE
44	L7	183	ASP
44	L7	184	LEU
44	L7	185	ILE
44	L7	202	LEU
44	L7	216	VAL
44	L7	219	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	L7	224	ILE
44	L7	239	LEU
45	L8	26	LEU
45	L8	27	THR
45	L8	31	PRO
45	L8	36	ILE
45	L8	38	GLN
45	L8	41	GLN
45	L8	42	PRO
45	L8	47	SER
45	L8	49	TYR
45	L8	55	TYR
45	L8	67	ILE
45	L8	69	LEU
45	L8	71	VAL
45	L8	79	GLN
45	L8	81	THR
45	L8	83	ASP
45	L8	84	ARG
45	L8	95	ASN
45	L8	106	LYS
45	L8	108	ARG
45	L8	109	LEU
45	L8	110	THR
45	L8	132	VAL
45	L8	134	TYR
45	L8	136	LEU
45	L8	137	ASN
45	L8	150	LEU
45	L8	155	ASN
45	L8	156	ASP
45	L8	160	ILE
45	L8	164	VAL
45	L8	183	LYS
45	L8	185	ARG
45	L8	189	LEU
45	L8	190	VAL
45	L8	197	VAL
45	L8	203	VAL
45	L8	204	ARG
45	L8	214	LEU
45	L8	216	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	L8	218	ILE
45	L8	246	MET
45	L8	255	SER
46	L9	2	LYS
46	L9	5	GLN
46	L9	6	THR
46	L9	12	VAL
46	L9	14	GLU
46	L9	18	VAL
46	L9	19	SER
46	L9	20	ILE
46	L9	21	LYS
46	L9	24	ILE
46	L9	25	VAL
46	L9	41	ILE
46	L9	44	THR
46	L9	52	LEU
46	L9	53	ILE
46	L9	55	VAL
46	L9	63	LYS
46	L9	68	LEU
46	L9	69	ARG
46	L9	70	THR
46	L9	72	LYS
46	L9	78	MET
46	L9	79	ILE
46	L9	82	VAL
46	L9	90	MET
46	L9	92	TYR
46	L9	94	TYR
46	L9	102	ASN
46	L9	104	VAL
46	L9	106	LYS
46	L9	107	ASP
46	L9	111	PHE
46	L9	118	LEU
46	L9	120	ASP
46	L9	121	LYS
46	L9	122	LYS
46	L9	123	ILE
46	L9	125	ASN
46	L9	130	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	L9	133	THR
46	L9	139	ASN
46	L9	146	LEU
46	L9	147	SER
46	L9	150	SER
46	L9	151	VAL
46	L9	154	VAL
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	163	GLN
46	L9	166	ARG
46	L9	168	ARG
46	L9	172	ILE
46	L9	173	ARG
46	L9	174	LYS
46	L9	176	LEU
46	L9	182	SER
46	L9	186	PHE
46	L9	188	THR
46	L9	189	GLU
46	L9	191	LEU
47	M0	7	ARG
47	M0	12	GLN
47	M0	15	LYS
47	M0	16	PRO
47	M0	20	SER
47	M0	21	ARG
47	M0	22	TYR
47	M0	26	VAL
47	M0	30	LYS
47	M0	31	ILE
47	M0	33	ILE
47	M0	39	LYS
47	M0	42	THR
47	M0	50	VAL
47	M0	52	LEU
47	M0	53	VAL
47	M0	61	SER
47	M0	63	GLU
47	M0	73	ASN
47	M0	82	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
47	M0	87	LEU
47	M0	99	ILE
47	M0	102	MET
47	M0	128	ARG
47	M0	130	ASP
47	M0	133	GLN
47	M0	134	ILE
47	M0	138	VAL
47	M0	139	ARG
47	M0	143	SER
47	M0	146	ASP
47	M0	163	GLN
47	M0	165	ILE
47	M0	174	THR
47	M0	177	ASP
47	M0	191	LYS
47	M0	197	VAL
47	M0	200	LEU
47	M0	201	SER
47	M0	203	LYS
47	M0	208	ASN
47	M0	215	GLU
48	M1	6	GLN
48	M1	10	ARG
48	M1	12	LEU
48	M1	13	LYS
48	M1	19	LEU
48	M1	22	SER
48	M1	23	VAL
48	M1	26	SER
48	M1	28	ASP
48	M1	29	ARG
48	M1	30	LEU
48	M1	43	GLN
48	M1	46	VAL
48	M1	52	TYR
48	M1	56	THR
48	M1	59	ILE
48	M1	70	THR
48	M1	71	VAL
48	M1	77	GLU
48	M1	79	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	M1	85	LYS
48	M1	99	THR
48	M1	101	ASN
48	M1	106	ILE
48	M1	107	ASP
48	M1	119	SER
48	M1	137	ARG
48	M1	140	ARG
48	M1	142	LYS
48	M1	145	LYS
48	M1	147	THR
48	M1	150	ASN
48	M1	155	THR
48	M1	158	ASP
48	M1	166	LYS
48	M1	173	ASP
49	M3	9	ILE
49	M3	13	HIS
49	M3	15	ARG
49	M3	21	ARG
49	M3	22	VAL
49	M3	23	LYS
49	M3	24	VAL
49	M3	35	ARG
49	M3	41	THR
49	M3	46	ILE
49	M3	50	PRO
49	M3	53	LEU
49	M3	55	ARG
49	M3	58	VAL
49	M3	59	ARG
49	M3	69	VAL
49	M3	73	ARG
49	M3	86	THR
49	M3	91	ARG
49	M3	98	ASP
49	M3	101	ARG
49	M3	106	GLN
49	M3	110	ASP
49	M3	115	ARG
49	M3	120	GLN
49	M3	121	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
49	M3	122	LYS
49	M3	124	ILE
49	M3	131	LYS
49	M3	136	GLU
49	M3	137	GLN
49	M3	138	VAL
49	M3	152	THR
49	M3	154	VAL
49	M3	157	ARG
49	M3	159	VAL
49	M3	168	ARG
49	M3	171	ARG
49	M3	174	ARG
49	M3	194	GLU
50	M4	5	SER
50	M4	11	ASN
50	M4	15	VAL
50	M4	27	GLN
50	M4	28	SER
50	M4	38	ILE
50	M4	44	VAL
50	M4	50	LYS
50	M4	53	VAL
50	M4	55	ARG
50	M4	66	THR
50	M4	68	LEU
50	M4	82	SER
50	M4	83	LYS
50	M4	90	VAL
50	M4	91	CYS
50	M4	92	GLU
50	M4	102	LYS
50	M4	106	ARG
50	M4	107	GLU
50	M4	108	ARG
50	M4	109	ARG
50	M4	113	THR
50	M4	117	ARG
50	M4	127	LYS
50	M4	131	VAL
50	M4	133	LYS
50	M4	135	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
50	M4	137	LYS
51	M5	5	LYS
51	M5	10	LEU
51	M5	22	LEU
51	M5	23	GLN
51	M5	25	VAL
51	M5	38	ARG
51	M5	43	THR
51	M5	49	ARG
51	M5	51	LEU
51	M5	54	LYS
51	M5	57	GLN
51	M5	62	TYR
51	M5	64	VAL
51	M5	80	THR
51	M5	90	ASN
51	M5	96	ARG
51	M5	101	THR
51	M5	104	GLU
51	M5	113	LEU
51	M5	117	ASN
51	M5	128	LYS
51	M5	133	ILE
51	M5	142	ILE
51	M5	151	ILE
51	M5	153	ASP
51	M5	155	VAL
51	M5	165	THR
51	M5	174	ILE
51	M5	184	LYS
51	M5	190	THR
51	M5	201	ARG
51	M5	204	LYS
52	M6	8	VAL
52	M6	16	VAL
52	M6	41	LEU
52	M6	42	ASN
52	M6	44	SER
52	M6	47	PHE
52	M6	57	PHE
52	M6	58	LEU
52	M6	59	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
52	M6	67	THR
52	M6	68	ARG
52	M6	70	PRO
52	M6	78	ARG
52	M6	82	LYS
52	M6	85	ARG
52	M6	87	MET
52	M6	89	SER
52	M6	92	THR
52	M6	104	VAL
52	M6	105	PHE
52	M6	106	GLU
52	M6	110	PRO
52	M6	117	ARG
52	M6	118	VAL
52	M6	122	GLN
52	M6	124	LEU
52	M6	126	VAL
52	M6	141	LEU
52	M6	142	SER
52	M6	143	THR
52	M6	155	LYS
52	M6	156	LEU
52	M6	161	LYS
52	M6	164	SER
52	M6	166	GLU
52	M6	170	LYS
52	M6	177	LYS
52	M6	184	THR
52	M6	190	VAL
52	M6	194	LEU
53	M7	7	THR
53	M7	9	THR
53	M7	13	LYS
53	M7	14	SER
53	M7	16	SER
53	M7	20	SER
53	M7	21	TYR
53	M7	26	PHE
53	M7	34	GLN
53	M7	36	ILE
53	M7	42	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
53	M7	49	GLU
53	M7	52	LEU
53	M7	53	ASP
53	M7	54	HIS
53	M7	55	GLN
53	M7	56	ARG
53	M7	61	ARG
53	M7	62	ARG
53	M7	67	ILE
53	M7	69	ARG
53	M7	78	VAL
53	M7	79	THR
53	M7	86	LYS
53	M7	90	PHE
53	M7	91	VAL
53	M7	107	LEU
53	M7	111	LYS
53	M7	112	LEU
53	M7	125	GLN
53	M7	127	ARG
53	M7	128	ARG
53	M7	131	ARG
53	M7	136	ILE
53	M7	138	LYS
53	M7	141	SER
53	M7	144	SER
53	M7	154	GLU
53	M7	155	GLU
53	M7	168	LEU
53	M7	180	LYS
53	M7	181	ARG
54	M8	3	ILE
54	M8	6	THR
54	M8	7	SER
54	M8	8	LYS
54	M8	11	LYS
54	M8	20	LYS
54	M8	26	LEU
54	M8	29	LEU
54	M8	32	LEU
54	M8	34	THR
54	M8	39	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
54	M8	41	ASP
54	M8	46	LYS
54	M8	49	LEU
54	M8	55	SER
54	M8	56	LYS
54	M8	63	SER
54	M8	66	ARG
54	M8	67	ILE
54	M8	93	ILE
54	M8	100	THR
54	M8	105	ARG
54	M8	106	PHE
54	M8	107	THR
54	M8	111	ARG
54	M8	115	VAL
54	M8	124	LEU
54	M8	133	LYS
54	M8	146	SER
54	M8	147	ARG
54	M8	150	VAL
54	M8	174	ARG
54	M8	176	ARG
54	M8	180	ARG
54	M8	186	VAL
55	M9	4	LEU
55	M9	5	ARG
55	M9	10	LEU
55	M9	17	VAL
55	M9	24	LEU
55	M9	25	ASP
55	M9	28	GLU
55	M9	31	GLU
55	M9	37	SER
55	M9	41	ILE
55	M9	44	LEU
55	M9	46	LYS
55	M9	49	THR
55	M9	55	VAL
55	M9	57	VAL
55	M9	63	THR
55	M9	70	LYS
55	M9	71	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
55	M9	74	ARG
55	M9	81	ARG
55	M9	84	THR
55	M9	89	LEU
55	M9	92	GLN
55	M9	100	ARG
55	M9	104	ARG
55	M9	105	LEU
55	M9	106	LEU
55	M9	116	ASP
55	M9	119	LEU
55	M9	125	LYS
55	M9	130	ASN
55	M9	134	HIS
55	M9	135	LYS
55	M9	139	VAL
55	M9	141	HIS
55	M9	164	LEU
55	M9	165	LYS
55	M9	167	ARG
55	M9	173	ARG
55	M9	176	ARG
55	M9	188	ASP
56	N0	1	MET
56	N0	3	HIS
56	N0	5	LYS
56	N0	7	TYR
56	N0	8	GLN
56	N0	16	THR
56	N0	17	GLU
56	N0	18	SER
56	N0	23	LYS
56	N0	34	GLU
56	N0	36	ILE
56	N0	45	LEU
56	N0	47	LYS
56	N0	51	VAL
56	N0	55	SER
56	N0	57	GLU
56	N0	58	ILE
56	N0	63	GLN
56	N0	71	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
56	N0	81	TYR
56	N0	82	ASP
56	N0	87	THR
56	N0	88	HIS
56	N0	98	SER
56	N0	100	VAL
56	N0	106	LEU
56	N0	107	TYR
56	N0	108	GLN
56	N0	117	ARG
56	N0	119	ARG
56	N0	120	SER
56	N0	123	ILE
56	N0	137	ARG
56	N0	142	GLN
56	N0	145	THR
56	N0	148	LEU
56	N0	149	LYS
56	N0	155	ARG
56	N0	156	VAL
56	N0	158	LYS
56	N0	159	SER
56	N0	162	THR
56	N0	166	LYS
56	N0	167	ARG
56	N0	169	SER
56	N0	170	THR
56	N0	171	PHE
56	N0	172	TYR
57	N1	5	HIS
57	N1	9	SER
57	N1	12	ARG
57	N1	15	PHE
57	N1	25	VAL
57	N1	29	THR
57	N1	32	LYS
57	N1	35	LYS
57	N1	60	LYS
57	N1	69	LYS
57	N1	72	VAL
57	N1	74	VAL
57	N1	75	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
57	N1	78	LYS
57	N1	79	MET
57	N1	88	ARG
57	N1	92	ARG
57	N1	93	VAL
57	N1	97	LYS
57	N1	98	HIS
57	N1	102	ARG
57	N1	103	GLN
57	N1	104	GLU
57	N1	106	LEU
57	N1	118	GLU
57	N1	120	LYS
57	N1	122	GLN
57	N1	124	VAL
57	N1	126	VAL
57	N1	127	GLN
57	N1	128	LEU
57	N1	130	ARG
57	N1	139	ARG
57	N1	141	VAL
57	N1	158	THR
57	N1	160	ILE
58	N2	14	THR
58	N2	27	VAL
58	N2	29	ASP
58	N2	32	SER
58	N2	35	LYS
58	N2	39	ASP
58	N2	43	VAL
58	N2	50	LEU
58	N2	52	ASN
58	N2	54	VAL
58	N2	68	THR
58	N2	70	LYS
58	N2	72	SER
58	N2	91	ASP
58	N2	93	ILE
58	N2	94	ARG
58	N2	95	PHE
58	N2	100	THR
58	N2	108	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
59	N3	12	ARG
59	N3	13	ILE
59	N3	29	SER
59	N3	36	ILE
59	N3	40	LYS
59	N3	42	SER
59	N3	45	ARG
59	N3	54	LEU
59	N3	59	MET
59	N3	68	GLU
59	N3	70	ARG
59	N3	72	LYS
59	N3	74	MET
59	N3	86	ARG
59	N3	87	ARG
59	N3	96	GLU
59	N3	97	ASP
59	N3	102	ILE
59	N3	104	ASN
59	N3	114	ILE
59	N3	120	LYS
59	N3	124	ASP
59	N3	128	ARG
59	N3	136	VAL
59	N3	137	VAL
60	N4	4	GLU
60	N4	9	SER
60	N4	19	THR
60	N4	21	PHE
60	N4	23	ARG
60	N4	27	LYS
60	N4	38	SER
60	N4	39	LEU
60	N4	42	GLN
60	N4	45	ASN
60	N4	47	ARG
60	N4	52	THR
61	N5	24	LEU
61	N5	27	ARG
61	N5	32	PHE
61	N5	34	LEU
61	N5	38	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
61	N5	46	TYR
61	N5	58	ASP
61	N5	60	TYR
61	N5	61	LYS
61	N5	63	ILE
61	N5	65	GLN
61	N5	71	THR
61	N5	80	ASN
61	N5	85	GLN
61	N5	108	LEU
61	N5	115	ARG
61	N5	127	THR
61	N5	133	LEU
61	N5	134	ASP
61	N5	135	ILE
61	N5	139	ILE
62	N6	5	SER
62	N6	7	ASP
62	N6	8	VAL
62	N6	13	ARG
62	N6	25	SER
62	N6	26	GLN
62	N6	36	SER
62	N6	37	LYS
62	N6	38	GLU
62	N6	39	LEU
62	N6	42	GLN
62	N6	45	ILE
62	N6	46	LYS
62	N6	50	ILE
62	N6	51	ARG
62	N6	57	LEU
62	N6	60	ARG
62	N6	62	SER
62	N6	74	TYR
62	N6	80	VAL
62	N6	83	ASP
62	N6	88	GLU
62	N6	90	VAL
62	N6	94	SER
62	N6	95	VAL
62	N6	115	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
62	N6	118	LEU
62	N6	126	LEU
62	N6	127	GLU
63	N7	9	LYS
63	N7	14	VAL
63	N7	33	SER
63	N7	34	LYS
63	N7	46	ILE
63	N7	52	LYS
63	N7	56	LYS
63	N7	57	HIS
63	N7	72	ILE
63	N7	75	VAL
63	N7	81	LEU
63	N7	88	ASP
63	N7	92	PHE
63	N7	99	GLU
63	N7	100	THR
63	N7	102	GLU
63	N7	107	ARG
63	N7	109	GLU
63	N7	121	ARG
63	N7	129	TRP
63	N7	132	SER
63	N7	134	LEU
63	N7	136	PHE
64	N8	8	THR
64	N8	15	VAL
64	N8	22	ILE
64	N8	38	GLN
64	N8	42	ARG
64	N8	43	ILE
64	N8	45	MET
64	N8	47	LYS
64	N8	56	VAL
64	N8	60	TYR
64	N8	75	LEU
64	N8	78	LEU
64	N8	83	PRO
64	N8	84	GLU
64	N8	86	LYS
64	N8	93	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
64	N8	96	LYS
64	N8	98	THR
64	N8	115	LYS
64	N8	120	ASN
64	N8	135	GLU
64	N8	136	GLU
64	N8	139	ARG
65	N9	3	LYS
65	N9	6	ASN
65	N9	10	HIS
65	N9	13	THR
65	N9	14	ARG
65	N9	22	LYS
65	N9	25	LYS
65	N9	26	THR
65	N9	28	LYS
65	N9	33	LYS
65	N9	35	VAL
65	N9	37	PRO
65	N9	38	LYS
65	N9	50	THR
65	N9	58	LYS
65	N9	59	LYS
66	O0	18	ILE
66	O0	30	THR
66	O0	32	LYS
66	O0	34	LEU
66	O0	40	LYS
66	O0	41	LEU
66	O0	43	ILE
66	O0	48	THR
66	O0	52	ARG
66	O0	61	MET
66	O0	62	LEU
66	O0	65	THR
66	O0	66	LYS
66	O0	83	LYS
66	O0	87	VAL
66	O0	90	VAL
66	O0	92	ILE
66	O0	97	ASP
66	O0	100	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
67	O1	9	THR
67	O1	13	THR
67	O1	14	ILE
67	O1	16	LEU
67	O1	18	LYS
67	O1	21	HIS
67	O1	24	SER
67	O1	26	LYS
67	O1	31	ARG
67	O1	35	GLU
67	O1	41	LYS
67	O1	46	THR
67	O1	64	VAL
67	O1	73	LEU
67	O1	75	ILE
67	O1	79	ARG
67	O1	82	GLU
67	O1	83	GLU
67	O1	84	ASP
67	O1	86	LYS
67	O1	89	LEU
67	O1	93	VAL
67	O1	98	VAL
67	O1	100	SER
67	O1	110	GLU
68	O2	6	HIS
68	O2	10	VAL
68	O2	14	THR
68	O2	18	LYS
68	O2	19	ARG
68	O2	26	HIS
68	O2	33	ARG
68	O2	36	LYS
68	O2	38	ILE
68	O2	39	ASP
68	O2	41	VAL
68	O2	44	ARG
68	O2	47	ARG
68	O2	49	ASN
68	O2	50	ILE
68	O2	61	LYS
68	O2	62	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
68	O2	67	SER
68	O2	68	PRO
68	O2	74	PHE
68	O2	75	LEU
68	O2	76	VAL
68	O2	78	ASN
68	O2	80	LYS
68	O2	82	LEU
68	O2	84	THR
68	O2	85	LEU
68	O2	86	THR
68	O2	96	ILE
68	O2	100	ILE
68	O2	103	LYS
68	O2	104	ASN
68	O2	105	ARG
68	O2	108	ILE
68	O2	109	LEU
68	O2	121	ASN
69	O3	20	LYS
69	O3	21	ARG
69	O3	22	VAL
69	O3	29	LEU
69	O3	31	LYS
69	O3	37	THR
69	O3	38	PRO
69	O3	56	SER
69	O3	59	VAL
69	O3	60	ARG
69	O3	62	SER
69	O3	67	MET
69	O3	70	LYS
69	O3	82	ARG
69	O3	84	THR
69	O3	86	ARG
69	O3	98	VAL
69	O3	106	ASN
69	O3	107	ILE
70	O4	4	ARG
70	O4	8	ARG
70	O4	10	ARG
70	O4	14	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
70	O4	15	THR
70	O4	18	ASN
70	O4	20	ILE
70	O4	22	VAL
70	O4	29	ILE
70	O4	35	VAL
70	O4	38	LEU
70	O4	43	LYS
70	O4	44	CYS
70	O4	51	LEU
70	O4	52	GLN
70	O4	56	THR
70	O4	57	LEU
70	O4	58	ARG
70	O4	65	VAL
70	O4	66	SER
70	O4	68	THR
70	O4	71	THR
70	O4	81	CYS
70	O4	88	ARG
70	O4	89	ILE
70	O4	98	GLN
70	O4	102	LYS
70	O4	105	VAL
70	O4	110	GLU
71	O5	4	VAL
71	O5	7	TYR
71	O5	8	GLU
71	O5	11	THR
71	O5	13	SER
71	O5	15	GLU
71	O5	28	LEU
71	O5	36	LEU
71	O5	41	LEU
71	O5	45	LYS
71	O5	46	THR
71	O5	47	VAL
71	O5	48	ARG
71	O5	49	LYS
71	O5	50	SER
71	O5	51	ILE
71	O5	55	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
71	O5	58	ILE
71	O5	62	GLN
71	O5	68	GLN
71	O5	69	LEU
71	O5	71	LYS
71	O5	73	LYS
71	O5	74	LYS
71	O5	81	ARG
71	O5	86	ARG
71	O5	89	ARG
71	O5	93	THR
71	O5	96	GLU
71	O5	101	THR
71	O5	102	GLU
71	O5	107	LYS
71	O5	115	LYS
71	O5	118	ILE
71	O5	119	LYS
72	O6	2	THR
72	O6	18	THR
72	O6	20	MET
72	O6	21	THR
72	O6	25	LYS
72	O6	28	TYR
72	O6	29	LYS
72	O6	43	LEU
72	O6	44	VAL
72	O6	45	ARG
72	O6	50	LEU
72	O6	52	PRO
72	O6	58	ILE
72	O6	59	ASP
72	O6	60	LEU
72	O6	64	SER
72	O6	68	ARG
72	O6	71	LYS
72	O6	76	ARG
72	O6	84	LYS
72	O6	87	VAL
72	O6	88	GLU
72	O6	90	MET
72	O6	98	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
72	O6	99	ARG
73	O7	3	LYS
73	O7	11	ARG
73	O7	17	THR
73	O7	18	LEU
73	O7	24	ARG
73	O7	31	LYS
73	O7	32	LYS
73	O7	33	THR
73	O7	43	LYS
73	O7	45	ARG
73	O7	55	ARG
73	O7	58	THR
73	O7	65	ARG
73	O7	67	LEU
73	O7	74	PHE
73	O7	75	LYS
73	O7	80	THR
73	O7	82	SER
73	O7	85	LYS
74	O8	8	ILE
74	O8	14	LEU
74	O8	17	ARG
74	O8	20	VAL
74	O8	24	THR
74	O8	31	LEU
74	O8	32	ASN
74	O8	36	LYS
74	O8	41	THR
74	O8	53	THR
74	O8	61	LYS
74	O8	65	LEU
74	O8	69	LEU
74	O8	72	THR
74	O8	77	ARG
75	O9	7	PHE
75	O9	12	LYS
75	O9	17	LYS
75	O9	21	ARG
75	O9	23	LEU
75	O9	28	ARG
75	O9	29	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
75	O9	41	ARG
75	O9	42	ARG
75	O9	45	ARG
76	Q0	85	LEU
76	Q0	88	LYS
76	Q0	89	TYR
76	Q0	92	ASP
76	Q0	94	SER
76	Q0	99	CYS
76	Q0	108	THR
76	Q0	113	ARG
76	Q0	114	LYS
76	Q0	122	ARG
76	Q0	127	LEU
77	Q1	1	MET
77	Q1	2	ARG
77	Q1	4	LYS
77	Q1	7	LYS
77	Q1	11	ARG
77	Q1	16	LYS
77	Q1	17	ARG
77	Q1	21	ARG
78	Q2	6	LYS
78	Q2	7	THR
78	Q2	8	ARG
78	Q2	15	LYS
78	Q2	16	THR
78	Q2	19	LYS
78	Q2	20	HIS
78	Q2	28	TYR
78	Q2	35	LEU
78	Q2	40	LYS
78	Q2	45	ARG
78	Q2	54	THR
78	Q2	55	LYS
78	Q2	57	VAL
78	Q2	58	PHE
78	Q2	61	LYS
78	Q2	64	THR
78	Q2	78	LYS
78	Q2	80	ARG
78	Q2	83	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
78	Q2	85	LEU
78	Q2	90	HIS
78	Q2	93	LEU
78	Q2	96	GLU
78	Q2	105	GLN
79	Q3	5	THR
79	Q3	6	LYS
79	Q3	7	LYS
79	Q3	8	VAL
79	Q3	20	SER
79	Q3	21	SER
79	Q3	25	GLN
79	Q3	41	PHE
79	Q3	42	CYS
79	Q3	45	LYS
79	Q3	48	LYS
79	Q3	49	ARG
79	Q3	58	SER
79	Q3	70	THR
79	Q3	81	SER
79	Q3	84	ARG
79	Q3	91	GLU
2	s0	6	THR
2	s0	9	LEU
2	s0	12	GLU
2	s0	15	GLN
2	s0	22	THR
2	s0	24	LEU
2	s0	28	ASN
2	s0	29	VAL
2	s0	41	ARG
2	s0	50	VAL
2	s0	59	LEU
2	s0	62	ARG
2	s0	63	ILE
2	s0	69	ASN
2	s0	72	ASP
2	s0	84	ARG
2	s0	86	VAL
2	s0	87	LEU
2	s0	96	THR
2	s0	98	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	s0	110	TYR
2	s0	111	ILE
2	s0	113	ARG
2	s0	119	ARG
2	s0	122	ILE
2	s0	128	SER
2	s0	129	ASP
2	s0	131	GLN
2	s0	133	ILE
2	s0	141	ILE
2	s0	153	SER
2	s0	156	VAL
2	s0	157	ASP
2	s0	165	ARG
2	s0	172	LEU
2	s0	177	LEU
2	s0	181	VAL
2	s0	183	ARG
2	s0	185	ARG
2	s0	188	LEU
2	s0	189	VAL
2	s0	196	SER
3	s1	21	VAL
3	s1	36	SER
3	s1	37	THR
3	s1	46	THR
3	s1	47	LEU
3	s1	50	LYS
3	s1	55	LYS
3	s1	59	ASP
3	s1	61	LEU
3	s1	62	LYS
3	s1	65	VAL
3	s1	66	VAL
3	s1	70	LEU
3	s1	73	LEU
3	s1	76	SER
3	s1	77	GLU
3	s1	79	HIS
3	s1	81	PHE
3	s1	89	ASP
3	s1	90	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	s1	98	THR
3	s1	105	PHE
3	s1	108	ASP
3	s1	115	ARG
3	s1	126	THR
3	s1	129	THR
3	s1	137	ILE
3	s1	158	SER
3	s1	162	ARG
3	s1	173	THR
3	s1	180	THR
3	s1	181	LEU
3	s1	185	THR
3	s1	188	LEU
3	s1	193	ILE
3	s1	194	ASN
3	s1	202	LYS
3	s1	205	PHE
3	s1	208	GLN
3	s1	209	ASN
3	s1	211	HIS
3	s1	222	LYS
3	s1	223	PHE
3	s1	232	HIS
3	s1	234	GLU
4	s2	41	LEU
4	s2	43	ARG
4	s2	46	LYS
4	s2	51	THR
4	s2	52	THR
4	s2	53	ILE
4	s2	56	ILE
4	s2	58	LEU
4	s2	60	SER
4	s2	66	PHE
4	s2	69	ILE
4	s2	70	ASP
4	s2	72	LEU
4	s2	80	VAL
4	s2	83	ILE
4	s2	86	VAL
4	s2	89	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	s2	90	THR
4	s2	91	ARG
4	s2	95	ARG
4	s2	96	THR
4	s2	97	ARG
4	s2	107	SER
4	s2	111	VAL
4	s2	113	LEU
4	s2	117	THR
4	s2	119	LYS
4	s2	130	ILE
4	s2	131	ILE
4	s2	139	ILE
4	s2	140	ARG
4	s2	141	ARG
4	s2	146	THR
4	s2	147	ASN
4	s2	150	GLN
4	s2	152	HIS
4	s2	154	LEU
4	s2	164	SER
4	s2	166	THR
4	s2	167	VAL
4	s2	170	ILE
4	s2	174	ARG
4	s2	179	VAL
4	s2	181	SER
4	s2	187	LEU
4	s2	189	GLN
4	s2	195	ASP
4	s2	205	ARG
4	s2	216	VAL
4	s2	222	TYR
4	s2	224	PHE
4	s2	225	LEU
4	s2	229	LEU
4	s2	232	GLU
4	s2	233	GLN
4	s2	246	GLU
4	s2	250	GLN
5	s3	4	LEU
5	s3	14	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	s3	21	LEU
5	s3	26	THR
5	s3	32	GLU
5	s3	34	TYR
5	s3	37	VAL
5	s3	40	ARG
5	s3	41	VAL
5	s3	44	THR
5	s3	54	ARG
5	s3	57	ASP
5	s3	59	LEU
5	s3	66	ILE
5	s3	67	ASN
5	s3	69	LEU
5	s3	70	THR
5	s3	72	LEU
5	s3	74	GLN
5	s3	76	ARG
5	s3	84	ILE
5	s3	90	ARG
5	s3	94	ARG
5	s3	97	SER
5	s3	103	GLU
5	s3	109	LEU
5	s3	115	ILE
5	s3	117	ARG
5	s3	128	GLU
5	s3	139	SER
5	s3	142	LEU
5	s3	143	ARG
5	s3	148	LYS
5	s3	152	PHE
5	s3	154	ASP
5	s3	158	ILE
5	s3	162	GLN
5	s3	167	PHE
5	s3	168	ILE
5	s3	174	HIS
5	s3	178	ARG
5	s3	181	VAL
5	s3	189	MET
5	s3	195	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	s3	196	ARG
5	s3	197	THR
5	s3	207	THR
5	s3	212	LYS
5	s3	213	GLU
5	s3	217	ILE
5	s3	223	LYS
6	s4	12	LEU
6	s4	20	LEU
6	s4	23	LEU
6	s4	32	SER
6	s4	38	LEU
6	s4	39	ARG
6	s4	42	LEU
6	s4	45	ILE
6	s4	49	ARG
6	s4	56	LEU
6	s4	57	ASN
6	s4	65	LEU
6	s4	77	ARG
6	s4	80	THR
6	s4	82	TYR
6	s4	88	ASP
6	s4	100	ARG
6	s4	108	ARG
6	s4	113	ARG
6	s4	115	THR
6	s4	116	ASP
6	s4	127	LYS
6	s4	130	GLN
6	s4	131	LEU
6	s4	133	LYS
6	s4	140	VAL
6	s4	143	ASP
6	s4	147	ILE
6	s4	151	ASP
6	s4	156	VAL
6	s4	160	VAL
6	s4	164	LEU
6	s4	169	ILE
6	s4	170	THR
6	s4	171	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
6	s4	174	LYS
6	s4	180	LEU
6	s4	182	TYR
6	s4	187	ARG
6	s4	194	THR
6	s4	195	ILE
6	s4	202	ASP
6	s4	209	HIS
6	s4	214	LEU
6	s4	217	THR
6	s4	219	VAL
6	s4	220	THR
6	s4	221	ARG
6	s4	227	VAL
6	s4	230	GLU
6	s4	240	LYS
6	s4	244	ILE
6	s4	246	LEU
6	s4	248	ILE
6	s4	254	ARG
6	s4	259	GLN
7	s5	20	PHE
7	s5	21	THR
7	s5	25	LEU
7	s5	28	PRO
7	s5	31	GLU
7	s5	32	GLU
7	s5	38	THR
7	s5	39	GLU
7	s5	40	ILE
7	s5	41	LYS
7	s5	44	ASN
7	s5	45	LYS
7	s5	53	VAL
7	s5	57	SER
7	s5	59	VAL
7	s5	63	GLN
7	s5	64	VAL
7	s5	65	ARG
7	s5	68	ILE
7	s5	70	VAL
7	s5	73	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	s5	76	ARG
7	s5	79	ASN
7	s5	89	ILE
7	s5	92	ARG
7	s5	93	LEU
7	s5	96	SER
7	s5	99	MET
7	s5	112	ARG
7	s5	119	ASP
7	s5	127	GLN
7	s5	146	THR
7	s5	147	THR
7	s5	148	ARG
7	s5	156	ARG
7	s5	157	ARG
7	s5	162	VAL
7	s5	166	ARG
7	s5	170	GLN
7	s5	187	ILE
7	s5	190	ILE
7	s5	194	LEU
7	s5	203	LYS
7	s5	205	SER
7	s5	217	LEU
7	s5	219	ARG
7	s5	223	SER
7	s5	225	ARG
8	s6	1	MET
8	s6	5	ILE
8	s6	6	SER
8	s6	7	TYR
8	s6	10	ASN
8	s6	15	THR
8	s6	19	ASP
8	s6	22	HIS
8	s6	24	ILE
8	s6	29	ASP
8	s6	44	GLU
8	s6	49	VAL
8	s6	50	PHE
8	s6	57	ASP
8	s6	67	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	s6	71	THR
8	s6	73	ILE
8	s6	76	LEU
8	s6	78	THR
8	s6	79	LYS
8	s6	81	VAL
8	s6	93	LYS
8	s6	108	VAL
8	s6	111	LEU
8	s6	119	GLN
8	s6	120	GLU
8	s6	121	LEU
8	s6	122	GLU
8	s6	126	ASP
8	s6	127	THR
8	s6	129	VAL
8	s6	133	LEU
8	s6	143	LYS
8	s6	150	GLU
8	s6	151	ASP
8	s6	153	VAL
8	s6	154	ARG
8	s6	156	PHE
8	s6	157	VAL
8	s6	158	ILE
8	s6	162	VAL
8	s6	168	THR
8	s6	171	LYS
8	s6	173	PRO
8	s6	175	ILE
8	s6	177	ARG
8	s6	182	GLN
8	s6	184	LEU
8	s6	185	GLN
8	s6	197	ASN
8	s6	210	GLN
8	s6	211	LEU
8	s6	215	ARG
8	s6	216	LEU
8	s6	217	SER
9	s7	7	LYS
9	s7	11	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
9	s7	16	LEU
9	s7	25	VAL
9	s7	26	GLU
9	s7	35	LYS
9	s7	37	GLU
9	s7	38	LEU
9	s7	39	ARG
9	s7	48	GLU
9	s7	49	ILE
9	s7	50	ASP
9	s7	67	LEU
9	s7	77	LEU
9	s7	79	ARG
9	s7	80	GLU
9	s7	84	LYS
9	s7	87	ASP
9	s7	90	VAL
9	s7	97	ARG
9	s7	104	ARG
9	s7	105	THR
9	s7	107	ARG
9	s7	108	GLN
9	s7	109	VAL
9	s7	114	ARG
9	s7	116	ARG
9	s7	118	LEU
9	s7	119	THR
9	s7	123	ASP
9	s7	125	ILE
9	s7	126	LEU
9	s7	129	LEU
9	s7	135	ILE
9	s7	144	VAL
9	s7	149	ILE
9	s7	154	LEU
9	s7	157	LYS
9	s7	160	GLN
9	s7	161	GLN
9	s7	166	LEU
9	s7	167	GLU
9	s7	185	ILE
10	s8	3	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
10	s8	4	SER
10	s8	6	ASP
10	s8	8	ARG
10	s8	9	HIS
10	s8	11	ARG
10	s8	17	LYS
10	s8	18	ARG
10	s8	29	LEU
10	s8	36	THR
10	s8	38	ILE
10	s8	41	LYS
10	s8	43	ILE
10	s8	45	SER
10	s8	46	VAL
10	s8	47	ARG
10	s8	48	THR
10	s8	56	ARG
10	s8	59	ARG
10	s8	61	GLU
10	s8	62	THR
10	s8	64	ASN
10	s8	66	SER
10	s8	72	ILE
10	s8	76	THR
10	s8	89	GLU
10	s8	92	ARG
10	s8	93	THR
10	s8	101	ILE
10	s8	111	GLN
10	s8	120	THR
10	s8	121	LEU
10	s8	136	SER
10	s8	151	LYS
10	s8	152	ILE
10	s8	153	GLU
10	s8	155	SER
10	s8	158	SER
10	s8	169	ILE
10	s8	184	LEU
10	s8	193	LEU
10	s8	195	ARG
10	s8	196	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
10	s8	197	THR
11	s9	3	ARG
11	s9	7	THR
11	s9	9	SER
11	s9	11	THR
11	s9	16	LYS
11	s9	17	ARG
11	s9	20	GLU
11	s9	28	LEU
11	s9	30	LEU
11	s9	39	LYS
11	s9	40	LYS
11	s9	45	ILE
11	s9	46	SER
11	s9	49	LEU
11	s9	53	ARG
11	s9	59	LEU
11	s9	60	LEU
11	s9	61	THR
11	s9	78	ARG
11	s9	82	ARG
11	s9	83	VAL
11	s9	90	LYS
11	s9	93	LEU
11	s9	101	VAL
11	s9	105	LEU
11	s9	109	LEU
11	s9	110	GLN
11	s9	112	GLN
11	s9	115	LYS
11	s9	126	ARG
11	s9	127	VAL
11	s9	130	THR
11	s9	134	ILE
11	s9	140	ILE
11	s9	150	LEU
11	s9	154	LYS
11	s9	155	HIS
11	s9	162	SER
11	s9	168	ARG
11	s9	171	ARG
11	s9	172	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
11	s9	180	LYS
12	c0	2	LEU
12	c0	3	MET
12	c0	5	LYS
12	c0	6	GLU
12	c0	8	ARG
12	c0	15	LEU
12	c0	20	VAL
12	c0	33	GLU
12	c0	36	ASP
12	c0	49	LEU
12	c0	51	SER
12	c0	55	VAL
12	c0	57	THR
12	c0	64	TYR
12	c0	67	THR
12	c0	70	GLU
12	c0	73	VAL
12	c0	74	GLU
12	c0	75	TYR
13	c1	5	LEU
13	c1	8	GLN
13	c1	9	SER
13	c1	16	GLN
13	c1	19	ILE
13	c1	21	ASN
13	c1	25	VAL
13	c1	26	LYS
13	c1	30	ARG
13	c1	40	LEU
13	c1	44	THR
13	c1	47	THR
13	c1	56	LYS
13	c1	60	PHE
13	c1	63	LEU
13	c1	67	ARG
13	c1	72	THR
13	c1	74	THR
13	c1	77	SER
13	c1	80	MET
13	c1	86	ILE
13	c1	87	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	c1	91	LEU
13	c1	103	ARG
13	c1	105	LYS
13	c1	111	VAL
13	c1	117	VAL
13	c1	123	VAL
13	c1	124	THR
13	c1	136	ARG
13	c1	143	SER
14	c2	28	LEU
14	c2	30	VAL
14	c2	36	LEU
14	c2	41	LEU
14	c2	43	ARG
14	c2	58	LEU
14	c2	59	LEU
14	c2	61	VAL
14	c2	62	LEU
14	c2	66	VAL
14	c2	71	ILE
14	c2	74	LEU
14	c2	83	GLU
14	c2	85	LYS
14	c2	89	ILE
14	c2	97	LEU
14	c2	103	LEU
14	c2	116	VAL
14	c2	119	SER
14	c2	121	VAL
14	c2	125	ASN
14	c2	126	TRP
14	c2	132	GLU
14	c2	135	MET
14	c2	136	ILE
14	c2	140	PHE
15	c3	13	SER
15	c3	16	ILE
15	c3	20	ARG
15	c3	26	PHE
15	c3	28	LEU
15	c3	30	SER
15	c3	35	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
15	c3	36	GLN
15	c3	37	ILE
15	c3	42	ARG
15	c3	50	ILE
15	c3	64	ARG
15	c3	66	ILE
15	c3	67	THR
15	c3	71	ILE
15	c3	72	MET
15	c3	80	LEU
15	c3	82	PRO
15	c3	84	ILE
15	c3	94	LYS
15	c3	98	VAL
15	c3	102	LEU
15	c3	104	ARG
15	c3	110	ASP
15	c3	114	ARG
15	c3	115	LEU
15	c3	125	LEU
15	c3	127	ARG
15	c3	131	THR
15	c3	134	VAL
15	c3	138	ASN
16	c4	10	ASN
16	c4	13	VAL
16	c4	14	PHE
16	c4	18	ARG
16	c4	20	TYR
16	c4	22	SER
16	c4	43	THR
16	c4	49	LYS
16	c4	52	ARG
16	c4	55	SER
16	c4	58	TYR
16	c4	66	ASP
16	c4	67	VAL
16	c4	81	VAL
16	c4	82	LYS
16	c4	83	ILE
16	c4	90	ARG
16	c4	91	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
16	c4	92	LYS
16	c4	93	THR
16	c4	102	LEU
16	c4	107	ARG
16	c4	114	ARG
16	c4	123	SER
16	c4	124	ASP
16	c4	125	SER
16	c4	127	ARG
16	c4	133	ARG
16	c4	136	ARG
16	c4	137	LEU
17	c5	15	HIS
17	c5	16	SER
17	c5	20	VAL
17	c5	22	LEU
17	c5	24	LYS
17	c5	27	GLU
17	c5	29	SER
17	c5	34	VAL
17	c5	36	LEU
17	c5	41	VAL
17	c5	43	ARG
17	c5	45	PHE
17	c5	49	MET
17	c5	52	LYS
17	c5	60	LEU
17	c5	61	ARG
17	c5	64	LYS
17	c5	65	LEU
17	c5	69	GLU
17	c5	72	LYS
17	c5	76	VAL
17	c5	86	VAL
17	c5	92	SER
17	c5	93	VAL
17	c5	94	VAL
17	c5	110	GLU
17	c5	120	SER
17	c5	121	ILE
17	c5	124	THR
17	c5	127	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
18	c6	8	GLN
18	c6	15	SER
18	c6	17	THR
18	c6	23	LYS
18	c6	26	LYS
18	c6	32	ASN
18	c6	36	ILE
18	c6	43	ILE
18	c6	50	GLU
18	c6	53	LEU
18	c6	54	LEU
18	c6	55	VAL
18	c6	57	LEU
18	c6	61	SER
18	c6	63	ILE
18	c6	68	ARG
18	c6	69	VAL
18	c6	81	ILE
18	c6	101	SER
18	c6	103	ASN
18	c6	105	LEU
18	c6	111	SER
18	c6	113	ASP
18	c6	114	ARG
18	c6	115	THR
18	c6	117	LEU
18	c6	118	ILE
18	c6	123	ARG
18	c6	132	LYS
18	c6	137	ARG
18	c6	143	ARG
19	c7	3	ARG
19	c7	4	VAL
19	c7	5	ARG
19	c7	6	THR
19	c7	7	LYS
19	c7	14	LYS
19	c7	25	THR
19	c7	29	GLN
19	c7	30	THR
19	c7	34	LEU
19	c7	35	CYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
19	c7	36	ASP
19	c7	38	ILE
19	c7	44	LYS
19	c7	46	LEU
19	c7	49	LYS
19	c7	54	THR
19	c7	55	THR
19	c7	56	HIS
19	c7	69	ILE
19	c7	72	LYS
19	c7	73	LEU
19	c7	78	ARG
19	c7	83	GLN
19	c7	88	VAL
19	c7	104	ASN
19	c7	105	GLN
19	c7	106	THR
19	c7	108	ASP
19	c7	112	SER
19	c7	113	LEU
20	c8	3	LEU
20	c8	5	VAL
20	c8	13	HIS
20	c8	17	LEU
20	c8	19	ASN
20	c8	25	ASN
20	c8	29	VAL
20	c8	36	LYS
20	c8	38	VAL
20	c8	40	ARG
20	c8	41	ARG
20	c8	53	ASP
20	c8	57	ARG
20	c8	61	LEU
20	c8	63	GLN
20	c8	65	GLU
20	c8	67	GLU
20	c8	75	ASN
20	c8	86	LEU
20	c8	89	GLN
20	c8	90	ASN
20	c8	94	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
20	c8	96	LYS
20	c8	100	THR
20	c8	109	LEU
20	c8	112	ASP
20	c8	116	LEU
20	c8	134	ARG
20	c8	136	GLN
20	c8	138	THR
20	c8	141	THR
20	c8	145	ARG
21	c9	4	VAL
21	c9	5	SER
21	c9	6	VAL
21	c9	16	ASN
21	c9	25	GLN
21	c9	27	LYS
21	c9	33	TYR
21	c9	36	ILE
21	c9	41	SER
21	c9	44	GLU
21	c9	51	GLU
21	c9	57	ARG
21	c9	68	ARG
21	c9	70	GLN
21	c9	84	LYS
21	c9	86	ARG
21	c9	89	ARG
21	c9	94	ILE
21	c9	110	LYS
21	c9	111	ILE
21	c9	116	ILE
21	c9	123	ARG
21	c9	126	GLU
21	c9	130	ARG
21	c9	132	LEU
21	c9	133	ASP
21	c9	140	LEU
21	c9	141	GLU
21	c9	142	GLU
21	c9	144	GLU
22	d0	13	GLU
22	d0	14	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
22	d0	15	GLN
22	d0	20	ILE
22	d0	21	LYS
22	d0	22	ILE
22	d0	23	ARG
22	d0	24	ILE
22	d0	27	THR
22	d0	33	GLN
22	d0	34	LEU
22	d0	43	LYS
22	d0	44	ASN
22	d0	46	GLU
22	d0	48	HIS
22	d0	50	LEU
22	d0	53	LYS
22	d0	62	VAL
22	d0	66	SER
22	d0	67	THR
22	d0	69	LYS
22	d0	70	THR
22	d0	74	GLU
22	d0	77	LYS
22	d0	78	THR
22	d0	94	GLU
22	d0	99	ILE
22	d0	102	ARG
22	d0	103	ILE
22	d0	105	GLN
22	d0	107	THR
22	d0	108	ILE
22	d0	109	GLU
22	d0	115	GLU
22	d0	116	VAL
22	d0	120	SER
23	d1	3	ASN
23	d1	4	ASP
23	d1	5	LYS
23	d1	7	GLN
23	d1	8	LEU
23	d1	10	GLU
23	d1	12	TYR
23	d1	21	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	d1	23	ILE
23	d1	25	LYS
23	d1	32	VAL
23	d1	38	LYS
23	d1	42	GLU
23	d1	44	ARG
23	d1	52	THR
23	d1	53	TYR
23	d1	56	SER
23	d1	61	SER
23	d1	62	ARG
23	d1	75	ASN
23	d1	78	LEU
23	d1	86	SER
24	d2	4	SER
24	d2	6	VAL
24	d2	7	LEU
24	d2	9	ASP
24	d2	12	ASN
24	d2	15	ASN
24	d2	23	ARG
24	d2	25	VAL
24	d2	31	SER
24	d2	33	VAL
24	d2	37	PHE
24	d2	42	GLN
24	d2	43	LYS
24	d2	56	HIS
24	d2	65	LEU
24	d2	76	SER
24	d2	98	GLN
24	d2	103	ILE
24	d2	110	ILE
24	d2	117	ARG
24	d2	126	LEU
24	d2	129	VAL
25	d3	7	ARG
25	d3	9	LEU
25	d3	14	LYS
25	d3	16	ARG
25	d3	19	ARG
25	d3	33	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	d3	36	THR
25	d3	40	SER
25	d3	50	LYS
25	d3	52	ILE
25	d3	55	GLU
25	d3	64	PRO
25	d3	73	ARG
25	d3	76	LEU
25	d3	77	ILE
25	d3	78	LYS
25	d3	83	VAL
25	d3	84	THR
25	d3	92	CYS
25	d3	97	ASP
25	d3	107	PHE
25	d3	109	ARG
25	d3	117	ILE
25	d3	123	LYS
25	d3	126	LYS
25	d3	132	LEU
25	d3	133	LEU
25	d3	140	LYS
25	d3	144	ARG
25	d3	145	SER
26	d4	3	ASP
26	d4	7	ILE
26	d4	10	ARG
26	d4	12	VAL
26	d4	13	ILE
26	d4	28	LEU
26	d4	30	PRO
26	d4	32	ARG
26	d4	43	LYS
26	d4	44	LEU
26	d4	47	VAL
26	d4	49	LYS
26	d4	51	GLU
26	d4	55	VAL
26	d4	58	PHE
26	d4	62	THR
26	d4	63	GLN
26	d4	88	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
26	d4	91	LEU
26	d4	104	SER
26	d4	125	LEU
26	d4	128	LYS
26	d4	132	ARG
27	d5	42	LEU
27	d5	51	LEU
27	d5	58	ARG
27	d5	60	VAL
27	d5	62	VAL
27	d5	63	SER
27	d5	68	ARG
27	d5	71	ILE
27	d5	74	SER
27	d5	81	ARG
27	d5	85	LYS
27	d5	92	ILE
27	d5	102	THR
27	d5	105	THR
28	d6	4	LYS
28	d6	5	ARG
28	d6	7	SER
28	d6	10	ARG
28	d6	12	LYS
28	d6	15	ARG
28	d6	18	VAL
28	d6	22	ARG
28	d6	27	SER
28	d6	33	ASP
28	d6	34	LYS
28	d6	36	ILE
28	d6	39	MET
28	d6	41	ILE
28	d6	42	ARG
28	d6	44	ILE
28	d6	46	GLU
28	d6	50	VAL
28	d6	51	ARG
28	d6	53	LEU
28	d6	55	GLU
28	d6	57	SER
28	d6	64	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
28	d6	67	THR
28	d6	73	TYR
28	d6	76	SER
28	d6	83	ILE
28	d6	85	ARG
28	d6	86	VAL
28	d6	88	SER
28	d6	90	GLU
28	d6	95	ARG
29	d7	2	VAL
29	d7	3	LEU
29	d7	5	GLN
29	d7	18	LYS
29	d7	24	LEU
29	d7	31	TYR
29	d7	34	ASP
29	d7	35	VAL
29	d7	37	CYS
29	d7	41	LEU
29	d7	43	ILE
29	d7	45	THR
29	d7	48	SER
29	d7	49	HIS
29	d7	58	SER
29	d7	67	THR
30	d8	14	LYS
30	d8	15	VAL
30	d8	18	ARG
30	d8	22	ARG
30	d8	26	THR
30	d8	32	PHE
30	d8	33	LEU
30	d8	36	THR
30	d8	38	ARG
30	d8	49	ARG
30	d8	52	ASP
30	d8	53	ILE
30	d8	54	LEU
30	d8	65	ARG
31	d9	4	GLU
31	d9	6	VAL
31	d9	7	TRP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	d9	8	PHE
31	d9	10	HIS
31	d9	14	TYR
31	d9	19	ARG
31	d9	20	GLN
31	d9	28	THR
31	d9	31	ILE
31	d9	42	CYS
31	d9	44	ARG
31	d9	50	ILE
31	d9	54	LYS
31	d9	56	ARG
80	e0	5	HIS
80	e0	7	SER
80	e0	8	LEU
80	e0	13	LYS
80	e0	15	LYS
80	e0	26	LYS
80	e0	44	PHE
80	e0	45	VAL
80	e0	50	VAL
80	e0	53	LYS
80	e0	56	MET
80	e0	62	VAL
81	e1	78	LYS
81	e1	79	LYS
81	e1	80	ARG
81	e1	84	VAL
81	e1	86	THR
81	e1	89	LYS
81	e1	90	LYS
81	e1	92	LYS
81	e1	96	LYS
81	e1	98	VAL
81	e1	100	LEU
81	e1	102	VAL
81	e1	106	TYR
81	e1	108	VAL
81	e1	109	ASP
81	e1	113	LYS
81	e1	118	ARG
81	e1	119	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
81	e1	121	CYS
81	e1	135	HIS
81	e1	140	TYR
81	e1	144	CYS
81	e1	147	VAL
81	e1	149	LYS
81	e1	151	ASN
34	sR	5	GLU
34	sR	8	VAL
34	sR	17	ASN
34	sR	20	VAL
34	sR	23	LEU
34	sR	25	THR
34	sR	29	GLN
34	sR	43	ILE
34	sR	56	VAL
34	sR	58	VAL
34	sR	59	ARG
34	sR	60	SER
34	sR	69	GLN
34	sR	72	THR
34	sR	82	SER
34	sR	96	THR
34	sR	98	GLU
34	sR	102	ARG
34	sR	104	VAL
34	sR	106	HIS
34	sR	108	SER
34	sR	115	ILE
34	sR	116	ASP
34	sR	128	ASP
34	sR	136	ILE
34	sR	145	LEU
34	sR	154	VAL
34	sR	159	ASN
34	sR	160	GLU
34	sR	164	ASP
34	sR	166	SER
34	sR	167	VAL
34	sR	170	ILE
34	sR	178	VAL
34	sR	205	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	sR	228	LYS
34	sR	232	TYR
34	sR	233	THR
34	sR	258	THR
34	sR	269	TYR
34	sR	275	ARG
34	sR	283	LYS
34	sR	297	ASP
34	sR	299	GLN
34	sR	314	GLN
34	sR	315	VAL
34	sR	317	THR
35	sM	25	ILE
35	sM	27	LYS
35	sM	30	THR
35	sM	41	SER
35	sM	43	ASP
35	sM	49	LYS
35	sM	51	ARG
35	sM	61	ILE
35	sM	64	LYS
35	sM	68	ARG
35	sM	72	ARG
35	sM	74	LYS
35	sM	77	THR
35	sM	81	THR
35	sM	82	THR
39	l2	18	SER
39	l2	23	ARG
39	l2	29	LEU
39	l2	45	VAL
39	l2	46	LYS
39	l2	48	ILE
39	l2	52	SER
39	l2	62	VAL
39	l2	67	TYR
39	l2	73	GLU
39	l2	74	GLU
39	l2	79	ASN
39	l2	82	VAL
39	l2	96	LEU
39	l2	101	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	l2	104	LEU
39	l2	106	SER
39	l2	107	VAL
39	l2	109	GLU
39	l2	111	THR
39	l2	114	SER
39	l2	119	LYS
39	l2	126	LEU
39	l2	128	ARG
39	l2	134	VAL
39	l2	136	ILE
39	l2	142	ASP
39	l2	147	ARG
39	l2	152	SER
39	l2	158	ILE
39	l2	159	SER
39	l2	161	ASP
39	l2	179	LEU
39	l2	180	LEU
39	l2	186	PHE
39	l2	188	LYS
39	l2	193	ARG
39	l2	196	TRP
39	l2	200	ARG
39	l2	204	MET
39	l2	205	ASN
39	l2	207	VAL
39	l2	210	PRO
39	l2	217	GLN
39	l2	219	ILE
39	l2	224	THR
39	l2	225	ILE
39	l2	238	ILE
39	l2	242	ARG
39	l2	243	THR
39	l2	246	LEU
39	l2	247	ARG
39	l2	249	SER
39	l2	250	GLN
39	l2	251	LYS
40	l3	3	HIS
40	l3	4	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	l3	10	ARG
40	l3	17	LEU
40	l3	19	ARG
40	l3	20	LYS
40	l3	24	SER
40	l3	25	ILE
40	l3	30	LYS
40	l3	34	LYS
40	l3	37	ARG
40	l3	40	PRO
40	l3	41	VAL
40	l3	47	LEU
40	l3	55	THR
40	l3	56	ILE
40	l3	65	SER
40	l3	66	LYS
40	l3	70	ARG
40	l3	72	VAL
40	l3	81	THR
40	l3	83	PRO
40	l3	85	VAL
40	l3	86	VAL
40	l3	87	VAL
40	l3	101	SER
40	l3	103	THR
40	l3	109	HIS
40	l3	112	ASP
40	l3	114	VAL
40	l3	120	LYS
40	l3	123	TYR
40	l3	125	SER
40	l3	127	LYS
40	l3	134	SER
40	l3	140	ASP
40	l3	146	ARG
40	l3	148	LEU
40	l3	150	ARG
40	l3	157	VAL
40	l3	162	VAL
40	l3	167	ARG
40	l3	183	LEU
40	l3	184	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	l3	188	ILE
40	l3	192	VAL
40	l3	201	LYS
40	l3	202	THR
40	l3	207	SER
40	l3	208	VAL
40	l3	210	GLU
40	l3	211	GLN
40	l3	213	GLU
40	l3	214	MET
40	l3	221	THR
40	l3	226	PHE
40	l3	229	VAL
40	l3	231	HIS
40	l3	232	ARG
40	l3	235	THR
40	l3	236	LYS
40	l3	246	LEU
40	l3	247	ARG
40	l3	248	LYS
40	l3	252	ILE
40	l3	263	SER
40	l3	264	VAL
40	l3	270	ARG
40	l3	274	SER
40	l3	276	THR
40	l3	278	ILE
40	l3	284	ARG
40	l3	296	THR
40	l3	308	MET
40	l3	316	GLU
40	l3	328	ILE
40	l3	332	ARG
40	l3	344	THR
40	l3	345	ASN
40	l3	353	GLU
40	l3	359	ILE
40	l3	361	THR
40	l3	364	LYS
40	l3	379	PHE
40	l3	382	THR
40	l3	387	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	14	3	ARG
41	14	12	THR
41	14	16	THR
41	14	18	ASN
41	14	22	LEU
41	14	25	VAL
41	14	33	ASP
41	14	37	THR
41	14	48	GLN
41	14	50	TYR
41	14	53	SER
41	14	54	GLU
41	14	64	SER
41	14	65	TRP
41	14	69	ARG
41	14	73	ARG
41	14	82	THR
41	14	93	MET
41	14	94	CYS
41	14	105	THR
41	14	110	ASN
41	14	112	LYS
41	14	113	VAL
41	14	120	TYR
41	14	134	LEU
41	14	136	LEU
41	14	138	ARG
41	14	142	VAL
41	14	144	LYS
41	14	145	ILE
41	14	148	ILE
41	14	150	LEU
41	14	153	SER
41	14	154	THR
41	14	172	VAL
41	14	178	LEU
41	14	179	LEU
41	14	183	LYS
41	14	184	SER
41	14	186	LYS
41	14	187	LEU
41	14	191	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	14	193	LYS
41	14	194	TYR
41	14	197	ARG
41	14	203	ARG
41	14	206	LEU
41	14	217	LYS
41	14	222	VAL
41	14	223	PRO
41	14	230	VAL
41	14	246	ARG
41	14	247	PHE
41	14	256	THR
41	14	258	LEU
41	14	276	LEU
41	14	278	SER
41	14	279	HIS
41	14	280	ILE
41	14	289	ILE
41	14	292	SER
41	14	297	SER
41	14	304	GLN
41	14	306	THR
41	14	307	GLN
41	14	312	VAL
41	14	313	LEU
41	14	318	LEU
41	14	323	VAL
41	14	327	LEU
41	14	328	ASN
41	14	333	VAL
41	14	337	GLU
41	14	338	LYS
41	14	342	LYS
41	14	345	GLU
41	14	351	PRO
41	14	354	VAL
41	14	357	GLU
41	14	359	LEU
42	15	4	GLN
42	15	8	LYS
42	15	9	SER
42	15	10	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	15	24	ARG
42	15	32	GLN
42	15	34	LYS
42	15	35	ARG
42	15	36	LEU
42	15	51	LEU
42	15	66	SER
42	15	69	ILE
42	15	70	THR
42	15	75	LEU
42	15	81	HIS
42	15	82	GLU
42	15	85	ARG
42	15	89	THR
42	15	92	LEU
42	15	110	LEU
42	15	112	LYS
42	15	115	LEU
42	15	116	ASP
42	15	118	THR
42	15	120	LYS
42	15	123	GLU
42	15	129	TYR
42	15	130	GLU
42	15	131	LEU
42	15	132	THR
42	15	133	GLU
42	15	136	GLU
42	15	140	ARG
42	15	144	VAL
42	15	146	LEU
42	15	152	ARG
42	15	154	THR
42	15	155	THR
42	15	158	ARG
42	15	167	SER
42	15	176	SER
42	15	185	PHE
42	15	187	THR
42	15	189	GLU
42	15	190	ILE
42	15	194	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	15	211	LEU
42	15	214	ASP
42	15	218	ARG
42	15	220	SER
42	15	227	LEU
42	15	236	LEU
42	15	237	GLU
42	15	239	ILE
42	15	245	GLU
42	15	254	LYS
42	15	256	THR
42	15	258	LYS
42	15	262	LYS
42	15	263	GLU
42	15	268	GLU
42	15	269	SER
42	15	271	LYS
42	15	273	ARG
42	15	276	LYS
42	15	279	LYS
42	15	281	GLU
43	16	4	GLN
43	16	13	GLU
43	16	15	VAL
43	16	20	LYS
43	16	21	THR
43	16	28	GLN
43	16	31	ARG
43	16	36	PRO
43	16	42	LEU
43	16	50	LYS
43	16	51	ARG
43	16	52	VAL
43	16	59	GLU
43	16	65	ILE
43	16	71	VAL
43	16	88	SER
43	16	89	THR
43	16	90	LYS
43	16	93	VAL
43	16	98	VAL
43	16	104	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
43	16	108	LYS
43	16	109	GLU
43	16	130	ILE
43	16	137	ASP
43	16	140	VAL
43	16	150	LYS
43	16	155	LEU
43	16	157	GLN
43	16	171	PRO
44	17	22	THR
44	17	24	GLU
44	17	25	GLN
44	17	26	VAL
44	17	39	GLU
44	17	40	LYS
44	17	52	GLN
44	17	60	ARG
44	17	67	ARG
44	17	83	LEU
44	17	89	ILE
44	17	90	LYS
44	17	93	ASN
44	17	97	PRO
44	17	98	LYS
44	17	123	THR
44	17	124	LEU
44	17	127	LEU
44	17	129	LEU
44	17	130	ILE
44	17	142	SER
44	17	147	LEU
44	17	148	VAL
44	17	156	ILE
44	17	157	ASN
44	17	158	LYS
44	17	164	SER
44	17	165	ASP
44	17	173	LEU
44	17	176	TYR
44	17	178	ILE
44	17	179	LEU
44	17	180	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	17	181	ILE
44	17	184	LEU
44	17	196	LYS
44	17	207	LEU
44	17	229	PHE
44	17	232	ARG
44	17	234	GLU
44	17	239	LEU
45	18	26	LEU
45	18	38	GLN
45	18	50	VAL
45	18	64	ILE
45	18	67	ILE
45	18	71	VAL
45	18	74	THR
45	18	77	GLN
45	18	79	GLN
45	18	81	THR
45	18	83	ASP
45	18	85	ASN
45	18	89	GLU
45	18	90	THR
45	18	95	ASN
45	18	96	LYS
45	18	109	LEU
45	18	128	LYS
45	18	132	VAL
45	18	136	LEU
45	18	146	LYS
45	18	150	LEU
45	18	151	VAL
45	18	155	ASN
45	18	156	ASP
45	18	160	ILE
45	18	165	PHE
45	18	169	LEU
45	18	183	LYS
45	18	185	ARG
45	18	194	THR
45	18	197	VAL
45	18	200	LEU
45	18	211	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	18	217	THR
45	18	224	ASP
45	18	228	GLU
45	18	230	LYS
45	18	232	HIS
45	18	240	ASN
45	18	241	LYS
45	18	245	LYS
45	18	248	LYS
46	19	5	GLN
46	19	6	THR
46	19	9	GLN
46	19	17	THR
46	19	18	VAL
46	19	31	ARG
46	19	33	THR
46	19	37	ASN
46	19	49	ASN
46	19	52	LEU
46	19	55	VAL
46	19	63	LYS
46	19	68	LEU
46	19	69	ARG
46	19	70	THR
46	19	71	VAL
46	19	72	LYS
46	19	73	SER
46	19	79	ILE
46	19	80	THR
46	19	84	LYS
46	19	90	MET
46	19	96	HIS
46	19	107	ASP
46	19	112	ILE
46	19	113	GLU
46	19	115	ARG
46	19	123	ILE
46	19	124	ARG
46	19	125	ASN
46	19	129	ARG
46	19	133	THR
46	19	144	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	l9	146	LEU
46	l9	147	SER
46	l9	151	VAL
46	l9	152	GLU
46	l9	157	ASN
46	l9	161	LEU
46	l9	162	GLN
46	l9	163	GLN
46	l9	164	ILE
46	l9	168	ARG
46	l9	172	ILE
46	l9	174	LYS
46	l9	177	ASP
46	l9	182	SER
46	l9	183	HIS
46	l9	186	PHE
46	l9	187	ILE
46	l9	188	THR
46	l9	191	LEU
47	m0	4	ARG
47	m0	13	LYS
47	m0	22	TYR
47	m0	24	ARG
47	m0	36	LEU
47	m0	39	LYS
47	m0	42	THR
47	m0	46	PHE
47	m0	48	LEU
47	m0	52	LEU
47	m0	57	LEU
47	m0	58	GLU
47	m0	63	GLU
47	m0	71	CYS
47	m0	73	ASN
47	m0	74	LYS
47	m0	83	ASP
47	m0	87	LEU
47	m0	99	ILE
47	m0	103	LEU
47	m0	116	ARG
47	m0	125	LEU
47	m0	130	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
47	m0	133	GLN
47	m0	141	LYS
47	m0	142	ASP
47	m0	144	ASN
47	m0	145	LYS
47	m0	152	LEU
47	m0	154	ARG
47	m0	156	ARG
47	m0	163	GLN
47	m0	165	ILE
47	m0	166	ILE
47	m0	167	LEU
47	m0	169	LYS
47	m0	176	LEU
47	m0	180	GLU
47	m0	183	LYS
47	m0	185	ARG
47	m0	192	ASP
47	m0	201	SER
47	m0	203	LYS
47	m0	206	LEU
47	m0	209	ASN
47	m0	210	ILE
47	m0	211	ARG
47	m0	217	PHE
48	m1	6	GLN
48	m1	9	MET
48	m1	10	ARG
48	m1	11	ASP
48	m1	12	LEU
48	m1	13	LYS
48	m1	16	LYS
48	m1	20	ASN
48	m1	25	GLU
48	m1	26	SER
48	m1	28	ASP
48	m1	30	LEU
48	m1	31	THR
48	m1	35	LYS
48	m1	44	THR
48	m1	46	VAL
48	m1	51	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	m1	56	THR
48	m1	60	ARG
48	m1	62	ASN
48	m1	72	ARG
48	m1	79	ILE
48	m1	82	ARG
48	m1	85	LYS
48	m1	88	GLU
48	m1	92	ARG
48	m1	93	ASP
48	m1	94	ARG
48	m1	95	ASN
48	m1	99	THR
48	m1	101	ASN
48	m1	106	ILE
48	m1	107	ASP
48	m1	112	LEU
48	m1	115	LYS
48	m1	119	SER
48	m1	128	TYR
48	m1	129	VAL
48	m1	130	VAL
48	m1	133	ARG
48	m1	137	ARG
48	m1	138	VAL
48	m1	140	ARG
48	m1	142	LYS
48	m1	147	THR
48	m1	148	VAL
48	m1	151	SER
48	m1	152	HIS
48	m1	153	LYS
48	m1	155	THR
48	m1	156	LYS
48	m1	158	ASP
48	m1	159	THR
48	m1	165	GLN
48	m1	166	LYS
48	m1	174	LYS
49	m3	10	LEU
49	m3	11	LYS
49	m3	12	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
49	m3	13	HIS
49	m3	15	ARG
49	m3	16	LYS
49	m3	23	LYS
49	m3	24	VAL
49	m3	41	THR
49	m3	45	LYS
49	m3	46	ILE
49	m3	52	ASP
49	m3	54	LEU
49	m3	57	VAL
49	m3	58	VAL
49	m3	59	ARG
49	m3	63	VAL
49	m3	67	ARG
49	m3	68	LYS
49	m3	69	VAL
49	m3	73	ARG
49	m3	76	THR
49	m3	80	VAL
49	m3	93	ILE
49	m3	95	ILE
49	m3	97	VAL
49	m3	100	ARG
49	m3	102	GLN
49	m3	113	VAL
49	m3	114	GLN
49	m3	115	ARG
49	m3	116	LEU
49	m3	123	ILE
49	m3	124	ILE
49	m3	125	VAL
49	m3	129	ASN
49	m3	138	VAL
49	m3	144	THR
49	m3	145	PHE
49	m3	149	GLN
49	m3	150	PRO
49	m3	153	ASP
49	m3	164	GLU
49	m3	168	ARG
49	m3	171	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
49	m3	174	ARG
49	m3	177	LYS
49	m3	180	ARG
49	m3	184	GLU
49	m3	188	ARG
49	m3	189	GLU
49	m3	194	GLU
50	m4	3	THR
50	m4	5	SER
50	m4	6	ILE
50	m4	8	LYS
50	m4	15	VAL
50	m4	27	GLN
50	m4	32	LEU
50	m4	35	ILE
50	m4	44	VAL
50	m4	45	LEU
50	m4	53	VAL
50	m4	55	ARG
50	m4	60	LEU
50	m4	62	GLN
50	m4	64	VAL
50	m4	67	PRO
50	m4	68	LEU
50	m4	77	ARG
50	m4	80	THR
50	m4	82	SER
50	m4	103	ILE
50	m4	107	GLU
50	m4	108	ARG
50	m4	121	MET
50	m4	126	GLN
50	m4	127	LYS
50	m4	135	LEU
51	m5	5	LYS
51	m5	7	LEU
51	m5	10	LEU
51	m5	12	ARG
51	m5	18	VAL
51	m5	24	ARG
51	m5	31	ARG
51	m5	33	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
51	m5	41	ARG
51	m5	43	THR
51	m5	53	TYR
51	m5	54	LYS
51	m5	57	GLN
51	m5	63	ARG
51	m5	71	ARG
51	m5	72	LYS
51	m5	80	THR
51	m5	83	LYS
51	m5	92	LEU
51	m5	96	ARG
51	m5	97	SER
51	m5	98	LEU
51	m5	105	ARG
51	m5	117	ASN
51	m5	121	VAL
51	m5	126	THR
51	m5	128	LYS
51	m5	129	TYR
51	m5	138	GLN
51	m5	152	CYS
51	m5	153	ASP
51	m5	156	HIS
51	m5	159	ARG
51	m5	160	GLU
51	m5	165	THR
51	m5	172	ARG
51	m5	175	ASN
51	m5	178	HIS
51	m5	180	PHE
51	m5	182	ASN
51	m5	184	LYS
51	m5	198	SER
51	m5	201	ARG
52	m6	3	VAL
52	m6	4	GLU
52	m6	7	VAL
52	m6	8	VAL
52	m6	12	LYS
52	m6	15	LEU
52	m6	28	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
52	m6	41	LEU
52	m6	43	ILE
52	m6	46	GLU
52	m6	49	ARG
52	m6	52	LEU
52	m6	58	LEU
52	m6	66	LYS
52	m6	67	THR
52	m6	74	ARG
52	m6	77	SER
52	m6	78	ARG
52	m6	82	LYS
52	m6	85	ARG
52	m6	88	VAL
52	m6	91	LYS
52	m6	92	THR
52	m6	102	LEU
52	m6	106	GLU
52	m6	108	ILE
52	m6	116	LYS
52	m6	117	ARG
52	m6	124	LEU
52	m6	126	VAL
52	m6	128	ARG
52	m6	130	LYS
52	m6	140	LYS
52	m6	143	THR
52	m6	144	SER
52	m6	152	VAL
52	m6	170	LYS
52	m6	177	LYS
52	m6	180	SER
52	m6	182	ASN
52	m6	192	LYS
53	m7	3	ARG
53	m7	7	THR
53	m7	9	THR
53	m7	18	ARG
53	m7	21	TYR
53	m7	25	SER
53	m7	32	THR
53	m7	36	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
53	m7	46	LYS
53	m7	48	LEU
53	m7	49	GLU
53	m7	51	VAL
53	m7	56	ARG
53	m7	66	SER
53	m7	69	ARG
53	m7	70	THR
53	m7	78	VAL
53	m7	79	THR
53	m7	87	SER
53	m7	89	LYS
53	m7	94	LEU
53	m7	96	GLN
53	m7	103	GLU
53	m7	107	LEU
53	m7	112	LEU
53	m7	113	TYR
53	m7	114	VAL
53	m7	115	SER
53	m7	116	HIS
53	m7	119	VAL
53	m7	120	ASN
53	m7	121	GLN
53	m7	125	GLN
53	m7	126	ARG
53	m7	127	ARG
53	m7	137	ASN
53	m7	138	LYS
53	m7	142	SER
53	m7	147	GLU
53	m7	148	LEU
53	m7	153	LYS
53	m7	155	GLU
54	m8	3	ILE
54	m8	8	LYS
54	m8	12	ARG
54	m8	17	THR
54	m8	22	ASP
54	m8	24	VAL
54	m8	26	LEU
54	m8	28	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
54	m8	32	LEU
54	m8	34	THR
54	m8	44	PHE
54	m8	47	VAL
54	m8	49	LEU
54	m8	56	LYS
54	m8	57	ILE
54	m8	62	VAL
54	m8	63	SER
54	m8	64	VAL
54	m8	65	SER
54	m8	69	ARG
54	m8	80	THR
54	m8	82	VAL
54	m8	86	THR
54	m8	93	ILE
54	m8	98	LYS
54	m8	99	THR
54	m8	107	THR
54	m8	114	ILE
54	m8	129	VAL
54	m8	135	GLN
54	m8	138	LEU
54	m8	139	ILE
54	m8	144	ARG
54	m8	150	VAL
54	m8	155	MET
54	m8	165	ILE
54	m8	167	SER
54	m8	168	THR
54	m8	170	ARG
54	m8	171	LYS
54	m8	174	ARG
54	m8	178	ARG
54	m8	179	ARG
54	m8	180	ARG
54	m8	185	LYS
54	m8	186	VAL
55	m9	5	ARG
55	m9	7	GLN
55	m9	9	ARG
55	m9	10	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
55	m9	13	SER
55	m9	17	VAL
55	m9	20	ARG
55	m9	31	GLU
55	m9	32	ILE
55	m9	36	ASN
55	m9	41	ILE
55	m9	43	LYS
55	m9	56	THR
55	m9	57	VAL
55	m9	61	SER
55	m9	62	ARG
55	m9	70	LYS
55	m9	71	ARG
55	m9	74	ARG
55	m9	82	LYS
55	m9	88	ARG
55	m9	91	SER
55	m9	99	LEU
55	m9	102	LEU
55	m9	106	LEU
55	m9	108	LYS
55	m9	119	LEU
55	m9	121	HIS
55	m9	127	SER
55	m9	128	LYS
55	m9	134	HIS
55	m9	139	VAL
55	m9	151	ARG
55	m9	153	LYS
55	m9	164	LEU
55	m9	167	ARG
55	m9	171	ASP
55	m9	173	ARG
55	m9	182	ASP
55	m9	186	LYS
56	n0	1	MET
56	n0	3	HIS
56	n0	12	ARG
56	n0	16	THR
56	n0	21	GLU
56	n0	23	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
56	n0	34	GLU
56	n0	45	LEU
56	n0	59	VAL
56	n0	61	ILE
56	n0	62	ASN
56	n0	70	THR
56	n0	80	ARG
56	n0	82	ASP
56	n0	87	THR
56	n0	88	HIS
56	n0	89	ASN
56	n0	90	MET
56	n0	92	LYS
56	n0	96	ASP
56	n0	98	SER
56	n0	105	THR
56	n0	107	TYR
56	n0	113	ARG
56	n0	117	ARG
56	n0	129	ILE
56	n0	130	GLU
56	n0	132	THR
56	n0	136	LYS
56	n0	137	ARG
56	n0	141	LYS
56	n0	145	THR
56	n0	148	LEU
56	n0	149	LYS
56	n0	155	ARG
56	n0	156	VAL
56	n0	158	LYS
56	n0	160	THR
56	n0	162	THR
56	n0	164	SER
56	n0	171	PHE
56	n0	172	TYR
57	n1	4	SER
57	n1	9	SER
57	n1	14	MET
57	n1	17	ARG
57	n1	19	PHE
57	n1	27	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
57	n1	31	LEU
57	n1	33	VAL
57	n1	35	LYS
57	n1	36	VAL
57	n1	38	ASP
57	n1	48	ILE
57	n1	55	LYS
57	n1	64	VAL
57	n1	69	LYS
57	n1	75	ILE
57	n1	76	ILE
57	n1	83	ARG
57	n1	85	LEU
57	n1	87	LYS
57	n1	96	ILE
57	n1	97	LYS
57	n1	104	GLU
57	n1	106	LEU
57	n1	118	GLU
57	n1	122	GLN
57	n1	126	VAL
57	n1	127	GLN
57	n1	128	LEU
57	n1	132	PRO
57	n1	135	PRO
57	n1	136	ARG
57	n1	139	ARG
57	n1	143	THR
57	n1	154	VAL
57	n1	158	THR
58	n2	15	PHE
58	n2	19	VAL
58	n2	27	VAL
58	n2	28	PHE
58	n2	38	ILE
58	n2	47	VAL
58	n2	50	LEU
58	n2	55	THR
58	n2	58	GLU
58	n2	65	VAL
58	n2	72	SER
58	n2	74	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
58	n2	75	TYR
58	n2	91	ASP
58	n2	93	ILE
58	n2	100	THR
58	n2	104	ARG
59	n3	13	ILE
59	n3	19	VAL
59	n3	22	ILE
59	n3	23	MET
59	n3	35	TYR
59	n3	37	ILE
59	n3	42	SER
59	n3	45	ARG
59	n3	46	LEU
59	n3	48	ARG
59	n3	61	THR
59	n3	67	PRO
59	n3	70	ARG
59	n3	72	LYS
59	n3	74	MET
59	n3	78	VAL
59	n3	83	LYS
59	n3	84	SER
59	n3	88	ARG
59	n3	91	VAL
59	n3	92	PHE
59	n3	102	ILE
59	n3	108	GLU
59	n3	115	THR
59	n3	124	ASP
59	n3	128	ARG
60	n4	1	MET
60	n4	3	VAL
60	n4	5	ILE
60	n4	17	ARG
60	n4	19	THR
60	n4	20	LEU
60	n4	39	LEU
60	n4	43	ARG
60	n4	46	PRO
60	n4	49	ILE
60	n4	52	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
60	n4	54	LEU
60	n4	57	LYS
60	n4	59	HIS
60	n4	61	LYS
60	n4	82	ILE
60	n4	87	LEU
60	n4	89	LEU
60	n4	93	ARG
60	n4	99	GLU
60	n4	100	VAL
60	n4	102	LYS
60	n4	107	GLU
60	n4	109	LEU
60	n4	112	ASN
60	n4	116	LYS
60	n4	123	ARG
60	n4	127	LYS
60	n4	129	LYS
60	n4	133	THR
60	n4	135	SER
61	n5	24	LEU
61	n5	25	LYS
61	n5	27	ARG
61	n5	28	THR
61	n5	31	THR
61	n5	34	LEU
61	n5	39	LYS
61	n5	40	LEU
61	n5	44	PRO
61	n5	45	LYS
61	n5	48	SER
61	n5	53	HIS
61	n5	56	ARG
61	n5	58	ASP
61	n5	59	SER
61	n5	63	ILE
61	n5	67	ILE
61	n5	73	MET
61	n5	81	ILE
61	n5	86	VAL
61	n5	95	ILE
61	n5	102	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
61	n5	105	VAL
61	n5	106	ASP
61	n5	108	LEU
61	n5	113	LEU
61	n5	114	VAL
61	n5	115	ARG
61	n5	119	THR
61	n5	125	ARG
61	n5	126	LEU
61	n5	127	THR
61	n5	135	ILE
61	n5	138	ARG
62	n6	3	LYS
62	n6	5	SER
62	n6	8	VAL
62	n6	10	SER
62	n6	12	ARG
62	n6	13	ARG
62	n6	14	LYS
62	n6	17	LYS
62	n6	25	SER
62	n6	28	ARG
62	n6	32	SER
62	n6	37	LYS
62	n6	40	ARG
62	n6	48	LEU
62	n6	50	ILE
62	n6	51	ARG
62	n6	52	ARG
62	n6	55	GLU
62	n6	62	SER
62	n6	66	GLN
62	n6	70	ILE
62	n6	73	VAL
62	n6	74	TYR
62	n6	90	VAL
62	n6	94	SER
62	n6	95	VAL
62	n6	98	ASN
62	n6	102	SER
62	n6	105	VAL
62	n6	111	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
62	n6	115	ARG
62	n6	120	GLN
62	n6	122	LYS
62	n6	127	GLU
63	n7	3	LYS
63	n7	14	VAL
63	n7	15	ARG
63	n7	17	ARG
63	n7	24	VAL
63	n7	25	ILE
63	n7	26	VAL
63	n7	30	ASP
63	n7	34	LYS
63	n7	46	ILE
63	n7	47	GLU
63	n7	52	LYS
63	n7	64	LYS
63	n7	66	THR
63	n7	72	ILE
63	n7	73	LYS
63	n7	74	VAL
63	n7	81	LEU
63	n7	94	SER
63	n7	102	GLU
63	n7	132	SER
63	n7	134	LEU
64	n8	4	ARG
64	n8	6	THR
64	n8	7	LYS
64	n8	8	THR
64	n8	10	LYS
64	n8	14	HIS
64	n8	22	ILE
64	n8	32	ARG
64	n8	34	MET
64	n8	42	ARG
64	n8	44	ASN
64	n8	46	ASP
64	n8	58	MET
64	n8	60	TYR
64	n8	65	GLN
64	n8	73	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
64	n8	77	LYS
64	n8	78	LEU
64	n8	80	THR
64	n8	82	ILE
64	n8	91	LEU
64	n8	95	SER
64	n8	97	GLU
64	n8	101	VAL
64	n8	102	ILE
64	n8	117	ARG
64	n8	118	ILE
64	n8	120	ASN
64	n8	123	VAL
64	n8	124	ILE
64	n8	128	ARG
64	n8	133	LEU
64	n8	146	GLU
65	n9	3	LYS
65	n9	6	ASN
65	n9	10	HIS
65	n9	13	THR
65	n9	14	ARG
65	n9	15	LYS
65	n9	17	HIS
65	n9	18	ARG
65	n9	19	ASN
65	n9	21	ILE
65	n9	23	LYS
65	n9	28	LYS
65	n9	29	TYR
65	n9	33	LYS
65	n9	35	VAL
65	n9	37	PRO
65	n9	38	LYS
65	n9	40	ARG
65	n9	42	ASN
65	n9	48	HIS
65	n9	52	LYS
65	n9	58	LYS
65	n9	59	LYS
66	o0	7	GLN
66	o0	8	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
66	o0	12	GLN
66	o0	14	LEU
66	o0	18	ILE
66	o0	19	LYS
66	o0	20	SER
66	o0	25	LEU
66	o0	29	SER
66	o0	33	SER
66	o0	34	LEU
66	o0	35	ARG
66	o0	40	LYS
66	o0	41	LEU
66	o0	44	ILE
66	o0	48	THR
66	o0	52	ARG
66	o0	54	SER
66	o0	55	GLU
66	o0	56	LEU
66	o0	58	TYR
66	o0	61	MET
66	o0	65	THR
66	o0	86	ARG
66	o0	91	SER
66	o0	92	ILE
66	o0	94	GLU
66	o0	99	ASP
66	o0	101	LEU
66	o0	102	THR
67	o1	16	LEU
67	o1	17	HIS
67	o1	24	SER
67	o1	26	LYS
67	o1	28	ARG
67	o1	31	ARG
67	o1	43	HIS
67	o1	44	MET
67	o1	50	ARG
67	o1	53	PRO
67	o1	55	LEU
67	o1	64	VAL
67	o1	74	ARG
67	o1	76	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
67	o1	79	ARG
67	o1	81	GLU
67	o1	83	GLU
67	o1	84	ASP
67	o1	90	PHE
67	o1	91	SER
67	o1	94	GLU
67	o1	96	VAL
67	o1	100	SER
67	o1	102	LYS
67	o1	104	LEU
67	o1	106	THR
67	o1	110	GLU
68	o2	4	LEU
68	o2	9	ILE
68	o2	10	VAL
68	o2	11	LYS
68	o2	19	ARG
68	o2	21	HIS
68	o2	24	ARG
68	o2	27	ARG
68	o2	28	VAL
68	o2	30	GLU
68	o2	33	ARG
68	o2	34	LYS
68	o2	40	SER
68	o2	41	VAL
68	o2	44	ARG
68	o2	49	ASN
68	o2	50	ILE
68	o2	51	SER
68	o2	54	LYS
68	o2	61	LYS
68	o2	73	THR
68	o2	75	LEU
68	o2	82	LEU
68	o2	84	THR
68	o2	86	THR
68	o2	87	MET
68	o2	88	HIS
68	o2	91	THR
68	o2	108	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
68	o2	126	LEU
68	o2	128	LEU
69	o3	4	SER
69	o3	6	ARG
69	o3	9	VAL
69	o3	14	LEU
69	o3	15	SER
69	o3	19	SER
69	o3	22	VAL
69	o3	31	LYS
69	o3	37	THR
69	o3	42	GLN
69	o3	48	ARG
69	o3	49	ILE
69	o3	53	TYR
69	o3	57	LYS
69	o3	58	GLU
69	o3	60	ARG
69	o3	62	SER
69	o3	63	LYS
69	o3	66	VAL
69	o3	70	LYS
69	o3	72	THR
69	o3	78	SER
69	o3	84	THR
69	o3	86	ARG
69	o3	97	SER
69	o3	98	VAL
69	o3	105	SER
69	o3	107	ILE
70	o4	3	GLN
70	o4	9	ARG
70	o4	11	ASN
70	o4	20	ILE
70	o4	29	ILE
70	o4	30	LEU
70	o4	33	GLN
70	o4	36	LYS
70	o4	37	LYS
70	o4	38	LEU
70	o4	46	ASP
70	o4	57	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
70	o4	58	ARG
70	o4	64	THR
70	o4	66	SER
70	o4	68	THR
70	o4	73	SER
70	o4	79	SER
70	o4	80	ARG
70	o4	81	CYS
70	o4	84	CYS
70	o4	86	LYS
70	o4	87	GLU
70	o4	109	THR
70	o4	110	GLU
71	o5	10	ARG
71	o5	15	GLU
71	o5	19	SER
71	o5	20	GLN
71	o5	21	LEU
71	o5	27	GLU
71	o5	31	LEU
71	o5	35	LYS
71	o5	36	LEU
71	o5	37	SER
71	o5	42	PRO
71	o5	45	LYS
71	o5	46	THR
71	o5	47	VAL
71	o5	62	GLN
71	o5	79	ASP
71	o5	81	ARG
71	o5	84	LYS
71	o5	89	ARG
71	o5	94	LYS
71	o5	96	GLU
71	o5	100	VAL
71	o5	101	THR
71	o5	107	LYS
71	o5	115	LYS
71	o5	119	LYS
72	o6	3	VAL
72	o6	9	ILE
72	o6	18	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
72	o6	21	THR
72	o6	34	SER
72	o6	36	ARG
72	o6	42	SER
72	o6	43	LEU
72	o6	45	ARG
72	o6	47	ILE
72	o6	55	ARG
72	o6	57	LEU
72	o6	58	ILE
72	o6	59	ASP
72	o6	62	ARG
72	o6	68	ARG
72	o6	71	LYS
72	o6	74	LYS
72	o6	76	ARG
72	o6	81	THR
72	o6	90	MET
72	o6	93	ILE
72	o6	94	ILE
72	o6	98	ARG
72	o6	100	HIS
73	o7	3	LYS
73	o7	5	THR
73	o7	12	HIS
73	o7	13	ASN
73	o7	16	HIS
73	o7	17	THR
73	o7	19	CYS
73	o7	25	ARG
73	o7	31	LYS
73	o7	36	SER
73	o7	45	ARG
73	o7	56	ARG
73	o7	58	THR
73	o7	64	MET
73	o7	65	ARG
73	o7	66	TYR
73	o7	67	LEU
73	o7	72	ARG
73	o7	74	PHE
73	o7	75	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
73	o7	80	THR
73	o7	87	SER
74	o8	6	THR
74	o8	14	LEU
74	o8	17	ARG
74	o8	19	ASP
74	o8	24	THR
74	o8	32	ASN
74	o8	33	LYS
74	o8	38	PHE
74	o8	53	THR
74	o8	61	LYS
74	o8	64	LYS
74	o8	65	LEU
74	o8	73	LEU
74	o8	77	ARG
74	o8	78	LEU
75	o9	4	GLN
75	o9	5	LYS
75	o9	6	SER
75	o9	9	ILE
75	o9	12	LYS
75	o9	19	GLN
75	o9	21	ARG
75	o9	23	LEU
75	o9	27	ILE
75	o9	34	THR
75	o9	36	ARG
76	q0	81	SER
76	q0	83	LYS
76	q0	89	TYR
76	q0	92	ASP
76	q0	99	CYS
76	q0	109	ASN
76	q0	110	CYS
76	q0	112	LYS
76	q0	113	ARG
76	q0	114	LYS
76	q0	120	GLN
76	q0	122	ARG
76	q0	126	LYS
76	q0	128	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
77	q1	2	ARG
77	q1	6	ARG
77	q1	9	ARG
77	q1	13	LEU
77	q1	14	LYS
77	q1	16	LYS
77	q1	19	LYS
77	q1	21	ARG
77	q1	25	LYS
78	q2	2	VAL
78	q2	7	THR
78	q2	8	ARG
78	q2	10	THR
78	q2	17	CYS
78	q2	19	LYS
78	q2	20	HIS
78	q2	26	THR
78	q2	28	TYR
78	q2	34	SER
78	q2	38	GLN
78	q2	47	GLN
78	q2	54	THR
78	q2	55	LYS
78	q2	61	LYS
78	q2	63	LYS
78	q2	71	ARG
78	q2	72	LEU
78	q2	74	CYS
78	q2	76	LYS
78	q2	78	LYS
78	q2	80	ARG
78	q2	84	THR
78	q2	85	LEU
78	q2	87	ARG
78	q2	93	LEU
78	q2	96	GLU
78	q2	98	LYS
78	q2	99	GLN
78	q2	100	LYS
78	q2	104	LEU
78	q2	105	GLN
79	q3	3	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
79	q3	4	ARG
79	q3	6	LYS
79	q3	8	VAL
79	q3	16	VAL
79	q3	17	ARG
79	q3	18	TYR
79	q3	20	SER
79	q3	31	ILE
79	q3	40	SER
79	q3	42	CYS
79	q3	44	LYS
79	q3	46	THR
79	q3	49	ARG
79	q3	58	SER
79	q3	59	CYS
79	q3	60	CYS
79	q3	70	THR
79	q3	71	VAL
79	q3	78	THR
79	q3	81	SER
79	q3	82	THR
83	p0	4	ILE
83	p0	5	ARG
83	p0	7	LYS
83	p0	15	LEU
83	p0	19	LEU
83	p0	24	SER
83	p0	25	LEU
83	p0	28	VAL
83	p0	42	ARG
83	p0	43	LYS
83	p0	48	ARG
83	p0	57	THR
83	p0	63	ILE
83	p0	67	LEU
83	p0	69	ASP
83	p0	70	LEU
83	p0	72	ASP
83	p0	74	GLU
83	p0	76	LEU
83	p0	84	VAL
83	p0	93	LEU

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Mol	Chain	Res	Type
83	p0	101	VAL
83	p0	186	THR
83	p0	192	ASP
83	p0	193	ASN
83	p0	196	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (122) such sidechains are listed below:

Mol	Chain	Res	Type
2	S0	32	HIS
3	S1	177	GLN
4	S2	228	ASN
5	S3	62	ASN
6	S4	98	ASN
7	S5	103	ASN
10	S8	52	ASN
13	C1	14	GLN
13	C1	37	ASN
13	C1	110	HIS
19	C7	105	GLN
21	C9	70	GLN
22	D0	121	ASN
23	D1	29	HIS
25	D3	79	ASN
27	D5	38	HIS
27	D5	44	GLN
33	E1	123	ASN
35	SM	57	ASN
39	L2	8	GLN
39	L2	209	HIS
39	L2	211	HIS
43	L6	28	GLN
43	L6	167	ASN
44	L7	25	GLN
44	L7	48	ASN
44	L7	64	GLN
44	L7	112	ASN
44	L7	209	ASN
45	L8	145	ASN
46	L9	102	ASN
46	L9	156	GLN
48	M1	150	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
49	M3	25	HIS
49	M3	99	HIS
49	M3	103	ASN
49	M3	106	GLN
49	M3	129	ASN
49	M3	149	GLN
51	M5	139	HIS
52	M6	90	HIS
53	M7	34	GLN
54	M8	73	GLN
55	M9	121	HIS
57	N1	122	GLN
59	N3	81	GLN
63	N7	127	ASN
64	N8	74	ASN
68	O2	13	HIS
70	O4	18	ASN
75	O9	11	GLN
78	Q2	47	GLN
3	s1	209	ASN
4	s2	94	GLN
4	s2	228	ASN
5	s3	74	GLN
5	s3	179	GLN
6	s4	36	HIS
6	s4	57	ASN
6	s4	142	HIS
6	s4	157	ASN
6	s4	224	ASN
6	s4	231	GLN
7	s5	44	ASN
9	s7	5	GLN
10	s8	35	ASN
11	s9	110	GLN
11	s9	112	GLN
13	c1	37	ASN
15	c3	5	HIS
15	c3	36	GLN
15	c3	49	GLN
16	c4	12	GLN
16	c4	29	HIS
18	c6	93	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
19	c7	62	GLN
20	c8	6	GLN
20	c8	13	HIS
20	c8	90	ASN
21	c9	64	HIS
21	c9	70	GLN
22	d0	44	ASN
23	d1	3	ASN
24	d2	56	HIS
25	d3	75	GLN
26	d4	22	GLN
26	d4	63	GLN
26	d4	113	ASN
28	d6	69	ASN
34	sR	17	ASN
34	sR	159	ASN
35	sM	71	ASN
39	l2	8	GLN
39	l2	144	ASN
39	l2	250	GLN
41	l4	361	HIS
43	l6	4	GLN
44	l7	159	GLN
45	l8	192	GLN
45	l8	240	ASN
51	m5	86	ASN
52	m6	90	HIS
53	m7	121	GLN
54	m8	5	HIS
54	m8	9	GLN
55	m9	66	HIS
57	n1	90	ASN
57	n1	98	HIS
59	n3	33	ASN
62	n6	91	ASN
62	n6	120	GLN
63	n7	57	HIS
64	n8	25	HIS
64	n8	44	ASN
64	n8	49	HIS
65	n9	45	HIS
66	o0	12	GLN

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Mol	Chain	Res	Type
69	o3	106	ASN
73	o7	13	ASN
74	o8	32	ASN
78	q2	47	GLN
83	p0	195	GLN

### 5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1747/1800 (97%)	613 (35%)	71 (4%)
1	6	1787/1800 (99%)	650 (36%)	64 (3%)
36	1	3145/3396 (92%)	1010 (32%)	106 (3%)
36	5	3145/3396 (92%)	1037 (32%)	115 (3%)
37	3	120/121 (99%)	34 (28%)	2 (1%)
37	7	120/121 (99%)	30 (25%)	3 (2%)
38	4	157/158 (99%)	51 (32%)	7 (4%)
38	8	157/158 (99%)	57 (36%)	3 (1%)
All	All	10378/10950 (94%)	3482 (33%)	371 (3%)

All (3482) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	5	U
1	2	25	C
1	2	26	A
1	2	27	U
1	2	34	G
1	2	39	A
1	2	46	A
1	2	47	A
1	2	49	C
1	2	50	C
1	2	57	G
1	2	61	A
1	2	63	G
1	2	66	U
1	2	67	A
1	2	68	A
1	2	69	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	72	A
1	2	73	U
1	2	74	U
1	2	75	U
1	2	77	U
1	2	78	A
1	2	100	A
1	2	102	U
1	2	103	A
1	2	104	A
1	2	111	U
1	2	114	C
1	2	115	G
1	2	123	G
1	2	124	A
1	2	125	U
1	2	129	U
1	2	130	C
1	2	131	C
1	2	132	U
1	2	133	U
1	2	134	U
1	2	135	A
1	2	136	C
1	2	137	U
1	2	140	A
1	2	141	U
1	2	144	U
1	2	145	A
1	2	146	U
1	2	153	G
1	2	155	U
1	2	158	U
1	2	159	U
1	2	169	A
1	2	170	U
1	2	178	U
1	2	179	A
1	2	182	A
1	2	185	U
1	2	186	C
1	2	188	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	190	C
1	2	191	C
1	2	192	U
1	2	193	U
1	2	194	U
1	2	195	G
1	2	196	G
1	2	197	A
1	2	198	A
1	2	199	G
1	2	200	A
1	2	215	A
1	2	217	A
1	2	218	A
1	2	219	A
1	2	222	A
1	2	228	G
1	2	229	U
1	2	231	U
1	2	233	C
1	2	234	G
1	2	235	G
1	2	236	A
1	2	238	U
1	2	239	C
1	2	240	U
1	2	241	U
1	2	242	U
1	2	247	A
1	2	250	C
1	2	257	A
1	2	260	U
1	2	261	U
1	2	265	A
1	2	266	A
1	2	267	U
1	2	269	G
1	2	270	C
1	2	271	A
1	2	272	U
1	2	275	C
1	2	276	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	277	U
1	2	278	U
1	2	279	G
1	2	280	U
1	2	281	G
1	2	288	A
1	2	290	G
1	2	299	A
1	2	301	A
1	2	304	U
1	2	309	C
1	2	312	A
1	2	314	C
1	2	316	A
1	2	319	U
1	2	321	C
1	2	322	G
1	2	325	G
1	2	333	A
1	2	337	G
1	2	338	C
1	2	351	C
1	2	352	A
1	2	359	A
1	2	360	A
1	2	361	C
1	2	364	G
1	2	365	G
1	2	369	A
1	2	370	A
1	2	380	U
1	2	381	C
1	2	390	G
1	2	399	A
1	2	400	A
1	2	401	A
1	2	402	C
1	2	404	G
1	2	407	A
1	2	408	C
1	2	415	C
1	2	416	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	417	A
1	2	418	G
1	2	421	A
1	2	423	G
1	2	424	C
1	2	425	A
1	2	426	G
1	2	428	A
1	2	433	C
1	2	434	G
1	2	435	C
1	2	436	A
1	2	437	A
1	2	438	A
1	2	439	U
1	2	440	U
1	2	441	A
1	2	444	C
1	2	448	C
1	2	452	A
1	2	454	U
1	2	459	G
1	2	470	A
1	2	473	A
1	2	477	A
1	2	484	C
1	2	485	A
1	2	486	G
1	2	487	G
1	2	488	G
1	2	493	U
1	2	494	U
1	2	495	C
1	2	496	G
1	2	497	G
1	2	498	G
1	2	499	U
1	2	500	C
1	2	501	U
1	2	502	U
1	2	504	U
1	2	505	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	506	A
1	2	507	U
1	2	510	G
1	2	511	A
1	2	512	A
1	2	513	U
1	2	514	G
1	2	526	A
1	2	532	U
1	2	538	A
1	2	539	G
1	2	540	G
1	2	541	A
1	2	542	A
1	2	543	C
1	2	544	A
1	2	548	G
1	2	549	G
1	2	552	G
1	2	554	C
1	2	555	A
1	2	556	A
1	2	557	G
1	2	558	U
1	2	559	C
1	2	563	U
1	2	565	C
1	2	571	G
1	2	572	C
1	2	575	C
1	2	578	U
1	2	579	A
1	2	580	A
1	2	581	U
1	2	582	U
1	2	583	C
1	2	585	A
1	2	594	A
1	2	595	G
1	2	606	A
1	2	610	G
1	2	611	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	619	A
1	2	620	A
1	2	621	A
1	2	622	A
1	2	623	A
1	2	624	G
1	2	630	A
1	2	633	U
1	2	635	A
1	2	637	C
1	2	638	U
1	2	639	U
1	2	640	U
1	2	643	G
1	2	645	C
1	2	648	G
1	2	650	U
1	2	652	G
1	2	656	G
1	2	657	U
1	2	658	C
1	2	677	G
1	2	679	U
1	2	680	U
1	2	684	A
1	2	686	C
1	2	687	G
1	2	692	C
1	2	694	U
1	2	695	U
1	2	696	C
1	2	697	C
1	2	698	U
1	2	701	U
1	2	702	G
1	2	703	G
1	2	704	C
1	2	705	U
1	2	707	A
1	2	709	C
1	2	710	U
1	2	711	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	712	G
1	2	714	G
1	2	717	C
1	2	718	U
1	2	719	U
1	2	720	G
1	2	721	U
1	2	722	G
1	2	723	G
1	2	725	U
1	2	727	U
1	2	728	U
1	2	730	G
1	2	731	C
1	2	732	G
1	2	733	A
1	2	734	A
1	2	735	C
1	2	737	A
1	2	738	G
1	2	741	C
1	2	742	U
1	2	743	U
1	2	744	U
1	2	751	G
1	2	753	A
1	2	754	A
1	2	755	A
1	2	756	A
1	2	759	U
1	2	765	G
1	2	766	U
1	2	768	C
1	2	770	A
1	2	774	A
1	2	775	G
1	2	778	G
1	2	779	U
1	2	781	U
1	2	782	U
1	2	783	G
1	2	784	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	789	A
1	2	791	A
1	2	794	U
1	2	795	U
1	2	803	A
1	2	806	A
1	2	812	A
1	2	814	A
1	2	815	G
1	2	816	G
1	2	818	C
1	2	819	G
1	2	820	U
1	2	821	U
1	2	824	G
1	2	829	A
1	2	830	U
1	2	831	U
1	2	833	U
1	2	837	G
1	2	840	U
1	2	846	G
1	2	854	U
1	2	856	A
1	2	860	U
1	2	863	A
1	2	864	U
1	2	873	U
1	2	876	G
1	2	885	G
1	2	886	U
1	2	892	A
1	2	893	U
1	2	896	U
1	2	898	A
1	2	906	A
1	2	912	U
1	2	913	G
1	2	914	G
1	2	915	A
1	2	916	U
1	2	920	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	921	U
1	2	931	C
1	2	933	A
1	2	935	U
1	2	942	G
1	2	943	C
1	2	944	A
1	2	947	U
1	2	958	U
1	2	960	U
1	2	964	U
1	2	966	A
1	2	976	G
1	2	983	A
1	2	984	G
1	2	986	G
1	2	988	A
1	2	992	A
1	2	993	A
1	2	997	G
1	2	1000	C
1	2	1001	A
1	2	1003	A
1	2	1004	U
1	2	1005	A
1	2	1007	C
1	2	1016	C
1	2	1019	A
1	2	1020	A
1	2	1021	C
1	2	1024	U
1	2	1025	A
1	2	1026	A
1	2	1028	C
1	2	1029	U
1	2	1032	G
1	2	1039	A
1	2	1040	G
1	2	1043	A
1	2	1052	U
1	2	1053	G
1	2	1054	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	1056	U
1	2	1058	U
1	2	1059	U
1	2	1060	U
1	2	1061	A
1	2	1062	A
1	2	1072	C
1	2	1074	G
1	2	1076	A
1	2	1078	C
1	2	1079	U
1	2	1080	U
1	2	1081	A
1	2	1082	C
1	2	1083	G
1	2	1085	G
1	2	1092	A
1	2	1093	A
1	2	1094	G
1	2	1096	C
1	2	1097	U
1	2	1098	U
1	2	1100	G
1	2	1101	G
1	2	1111	G
1	2	1138	A
1	2	1140	G
1	2	1143	A
1	2	1146	G
1	2	1149	G
1	2	1151	A
1	2	1155	G
1	2	1158	C
1	2	1159	C
1	2	1160	A
1	2	1161	C
1	2	1167	G
1	2	1168	U
1	2	1175	U
1	2	1182	U
1	2	1185	U
1	2	1189	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	1194	A
1	2	1196	A
1	2	1199	G
1	2	1200	G
1	2	1201	G
1	2	1202	A
1	2	1205	C
1	2	1207	C
1	2	1212	G
1	2	1217	A
1	2	1218	G
1	2	1226	A
1	2	1227	A
1	2	1229	G
1	2	1235	C
1	2	1244	A
1	2	1245	G
1	2	1247	U
1	2	1250	U
1	2	1251	U
1	2	1258	U
1	2	1259	U
1	2	1261	G
1	2	1267	G
1	2	1274	C
1	2	1276	U
1	2	1286	U
1	2	1288	G
1	2	1306	C
1	2	1314	U
1	2	1315	U
1	2	1316	G
1	2	1320	U
1	2	1321	A
1	2	1336	A
1	2	1337	A
1	2	1339	C
1	2	1340	U
1	2	1341	A
1	2	1344	A
1	2	1345	A
1	2	1346	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	1348	A
1	2	1354	G
1	2	1355	C
1	2	1360	A
1	2	1362	U
1	2	1363	U
1	2	1370	U
1	2	1371	A
1	2	1372	U
1	2	1378	U
1	2	1386	G
1	2	1390	U
1	2	1391	A
1	2	1393	C
1	2	1398	U
1	2	1399	C
1	2	1400	A
1	2	1407	U
1	2	1412	G
1	2	1413	U
1	2	1415	U
1	2	1418	G
1	2	1425	A
1	2	1427	A
1	2	1428	G
1	2	1432	U
1	2	1443	U
1	2	1445	G
1	2	1446	A
1	2	1448	G
1	2	1454	G
1	2	1456	C
1	2	1457	C
1	2	1459	C
1	2	1461	C
1	2	1469	A
1	2	1471	A
1	2	1473	U
1	2	1474	G
1	2	1475	A
1	2	1481	C
1	2	1482	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	1485	C
1	2	1486	G
1	2	1489	U
1	2	1490	C
1	2	1491	U
1	2	1492	A
1	2	1493	A
1	2	1496	U
1	2	1501	C
1	2	1503	A
1	2	1505	A
1	2	1506	G
1	2	1515	A
1	2	1516	A
1	2	1517	U
1	2	1520	U
1	2	1523	G
1	2	1524	A
1	2	1530	C
1	2	1532	U
1	2	1533	C
1	2	1534	G
1	2	1535	U
1	2	1536	G
1	2	1537	C
1	2	1538	U
1	2	1542	G
1	2	1551	U
1	2	1552	U
1	2	1556	A
1	2	1557	U
1	2	1559	A
1	2	1560	U
1	2	1569	A
1	2	1571	C
1	2	1574	G
1	2	1583	A
1	2	1584	G
1	2	1590	G
1	2	1597	A
1	2	1600	A
1	2	1601	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	1612	U
1	2	1614	A
1	2	1616	G
1	2	1624	C
1	2	1625	C
1	2	1631	A
1	2	1635	A
1	2	1637	C
1	2	1638	G
1	2	1648	A
1	2	1653	C
1	2	1655	A
1	2	1657	U
1	2	1658	G
1	2	1660	A
1	2	1664	C
1	2	1666	U
1	2	1672	G
1	2	1682	U
1	2	1683	C
1	2	1684	U
1	2	1720	G
1	2	1724	U
1	2	1729	C
1	2	1731	A
1	2	1735	U
1	2	1740	A
1	2	1741	U
1	2	1755	A
1	2	1757	G
1	2	1758	U
1	2	1760	G
1	2	1762	A
1	2	1764	C
1	2	1766	A
1	2	1769	U
1	2	1770	U
1	2	1772	C
1	2	1777	G
1	2	1780	G
1	2	1782	A
1	2	1783	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	1790	A
1	2	1791	A
1	2	1792	G
1	2	1793	G
1	2	1794	A
1	2	1796	C
36	1	13	A
36	1	14	U
36	1	16	A
36	1	18	G
36	1	19	U
36	1	24	G
36	1	25	U
36	1	26	A
36	1	30	G
36	1	35	A
36	1	40	A
36	1	43	A
36	1	44	U
36	1	49	A
36	1	59	G
36	1	60	A
36	1	62	A
36	1	65	A
36	1	66	A
36	1	74	G
36	1	75	G
36	1	76	G
36	1	82	C
36	1	83	U
36	1	85	A
36	1	92	G
36	1	93	C
36	1	94	G
36	1	95	A
36	1	99	A
36	1	108	A
36	1	109	A
36	1	110	G
36	1	111	C
36	1	113	C
36	1	114	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	116	A
36	1	117	U
36	1	118	U
36	1	121	A
36	1	122	A
36	1	123	A
36	1	124	U
36	1	125	C
36	1	133	U
36	1	135	C
36	1	136	G
36	1	147	U
36	1	148	G
36	1	150	A
36	1	154	U
36	1	156	G
36	1	157	A
36	1	161	G
36	1	166	C
36	1	167	U
36	1	169	U
36	1	170	G
36	1	172	G
36	1	184	U
36	1	185	C
36	1	186	U
36	1	187	A
36	1	190	U
36	1	191	U
36	1	197	G
36	1	199	A
36	1	200	C
36	1	207	U
36	1	210	U
36	1	214	G
36	1	216	G
36	1	218	G
36	1	219	A
36	1	220	G
36	1	224	C
36	1	227	G
36	1	236	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	237	G
36	1	240	U
36	1	241	G
36	1	243	G
36	1	244	G
36	1	245	U
36	1	246	U
36	1	249	U
36	1	250	U
36	1	251	G
36	1	252	U
36	1	253	A
36	1	255	A
36	1	261	U
36	1	263	C
36	1	266	A
36	1	269	G
36	1	270	U
36	1	279	U
36	1	280	U
36	1	282	G
36	1	283	G
36	1	286	U
36	1	295	A
36	1	298	U
36	1	301	G
36	1	308	A
36	1	311	C
36	1	316	U
36	1	323	A
36	1	328	U
36	1	329	U
36	1	338	A
36	1	339	C
36	1	340	C
36	1	341	G
36	1	350	C
36	1	352	A
36	1	354	U
36	1	368	G
36	1	373	A
36	1	375	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	376	G
36	1	387	A
36	1	390	G
36	1	395	A
36	1	396	A
36	1	397	A
36	1	398	A
36	1	399	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	404	G
36	1	409	A
36	1	419	G
36	1	421	G
36	1	422	A
36	1	438	A
36	1	440	A
36	1	495	G
36	1	496	C
36	1	512	U
36	1	519	A
36	1	520	U
36	1	521	A
36	1	534	U
36	1	535	G
36	1	541	U
36	1	543	C
36	1	546	C
36	1	547	G
36	1	548	G
36	1	549	U
36	1	552	G
36	1	554	A
36	1	557	A
36	1	558	U
36	1	559	A
36	1	560	G
36	1	564	G
36	1	568	G
36	1	578	A
36	1	579	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	585	A
36	1	592	A
36	1	593	C
36	1	604	G
36	1	609	G
36	1	610	G
36	1	611	A
36	1	619	A
36	1	620	U
36	1	621	A
36	1	630	A
36	1	632	G
36	1	634	C
36	1	636	C
36	1	637	C
36	1	638	C
36	1	642	U
36	1	646	A
36	1	648	C
36	1	649	A
36	1	660	A
36	1	661	G
36	1	662	U
36	1	665	A
36	1	677	A
36	1	681	U
36	1	688	G
36	1	689	U
36	1	691	A
36	1	695	C
36	1	697	A
36	1	703	G
36	1	705	A
36	1	710	A
36	1	712	G
36	1	714	G
36	1	715	A
36	1	716	A
36	1	718	G
36	1	719	U
36	1	720	A
36	1	727	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	736	A
36	1	737	G
36	1	740	G
36	1	763	G
36	1	764	U
36	1	766	U
36	1	767	U
36	1	776	U
36	1	777	U
36	1	780	A
36	1	781	G
36	1	782	U
36	1	783	A
36	1	785	G
36	1	787	G
36	1	791	A
36	1	803	C
36	1	806	A
36	1	808	A
36	1	809	G
36	1	810	A
36	1	817	A
36	1	823	C
36	1	830	A
36	1	831	G
36	1	842	G
36	1	848	A
36	1	849	C
36	1	861	C
36	1	870	G
36	1	874	U
36	1	879	U
36	1	881	C
36	1	882	A
36	1	883	A
36	1	891	G
36	1	894	G
36	1	895	A
36	1	896	A
36	1	900	G
36	1	901	G
36	1	907	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	908	G
36	1	909	G
36	1	910	G
36	1	914	A
36	1	915	A
36	1	916	G
36	1	917	A
36	1	919	U
36	1	921	A
36	1	924	G
36	1	929	A
36	1	931	C
36	1	932	U
36	1	937	G
36	1	939	U
36	1	943	U
36	1	944	C
36	1	953	G
36	1	957	C
36	1	959	C
36	1	960	U
36	1	967	A
36	1	979	U
36	1	980	A
36	1	981	U
36	1	982	C
36	1	984	G
36	1	986	U
36	1	993	G
36	1	994	G
36	1	1001	G
36	1	1002	A
36	1	1010	G
36	1	1012	G
36	1	1013	G
36	1	1017	C
36	1	1018	G
36	1	1020	G
36	1	1021	G
36	1	1024	G
36	1	1025	A
36	1	1029	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	1030	A
36	1	1037	C
36	1	1047	A
36	1	1049	C
36	1	1051	U
36	1	1052	U
36	1	1064	A
36	1	1065	A
36	1	1071	U
36	1	1072	G
36	1	1078	U
36	1	1081	U
36	1	1082	U
36	1	1083	G
36	1	1086	C
36	1	1088	U
36	1	1089	G
36	1	1093	A
36	1	1094	U
36	1	1095	U
36	1	1097	G
36	1	1098	A
36	1	1102	A
36	1	1103	A
36	1	1104	G
36	1	1106	G
36	1	1109	U
36	1	1111	U
36	1	1112	A
36	1	1115	G
36	1	1117	G
36	1	1118	C
36	1	1123	U
36	1	1126	G
36	1	1129	A
36	1	1131	G
36	1	1143	A
36	1	1144	U
36	1	1146	C
36	1	1147	G
36	1	1149	G
36	1	1151	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	1153	A
36	1	1154	A
36	1	1156	C
36	1	1159	A
36	1	1162	U
36	1	1172	G
36	1	1174	G
36	1	1177	G
36	1	1178	G
36	1	1180	A
36	1	1181	U
36	1	1182	A
36	1	1184	A
36	1	1185	C
36	1	1191	U
36	1	1192	C
36	1	1196	C
36	1	1201	C
36	1	1202	A
36	1	1206	G
36	1	1209	G
36	1	1212	A
36	1	1213	G
36	1	1217	A
36	1	1218	U
36	1	1222	G
36	1	1225	A
36	1	1227	C
36	1	1232	C
36	1	1235	U
36	1	1236	G
36	1	1237	G
36	1	1238	C
36	1	1239	C
36	1	1241	U
36	1	1242	G
36	1	1243	G
36	1	1244	A
36	1	1245	A
36	1	1246	G
36	1	1248	C
36	1	1249	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	1253	U
36	1	1254	C
36	1	1255	C
36	1	1258	U
36	1	1262	G
36	1	1263	A
36	1	1264	G
36	1	1266	G
36	1	1269	U
36	1	1270	A
36	1	1271	A
36	1	1273	A
36	1	1274	A
36	1	1276	U
36	1	1277	C
36	1	1278	A
36	1	1279	C
36	1	1285	G
36	1	1286	A
36	1	1287	A
36	1	1292	C
36	1	1295	G
36	1	1300	G
36	1	1301	A
36	1	1305	U
36	1	1307	G
36	1	1308	A
36	1	1309	U
36	1	1312	C
36	1	1313	G
36	1	1318	A
36	1	1322	U
36	1	1323	G
36	1	1325	U
36	1	1330	A
36	1	1331	U
36	1	1332	A
36	1	1336	U
36	1	1343	A
36	1	1344	G
36	1	1345	G
36	1	1348	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	1349	G
36	1	1350	A
36	1	1351	U
36	1	1352	A
36	1	1353	U
36	1	1354	G
36	1	1355	A
36	1	1356	U
36	1	1357	G
36	1	1363	A
36	1	1372	C
36	1	1373	A
36	1	1375	G
36	1	1377	G
36	1	1379	G
36	1	1380	G
36	1	1385	C
36	1	1386	A
36	1	1387	G
36	1	1392	G
36	1	1399	A
36	1	1400	G
36	1	1403	C
36	1	1406	A
36	1	1411	C
36	1	1418	A
36	1	1419	A
36	1	1428	A
36	1	1429	G
36	1	1431	G
36	1	1433	A
36	1	1434	G
36	1	1437	C
36	1	1438	U
36	1	1444	G
36	1	1446	A
36	1	1450	G
36	1	1455	U
36	1	1461	A
36	1	1463	U
36	1	1469	C
36	1	1471	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	1481	A
36	1	1482	A
36	1	1485	G
36	1	1490	A
36	1	1492	G
36	1	1505	C
36	1	1507	G
36	1	1508	C
36	1	1511	U
36	1	1513	G
36	1	1514	G
36	1	1519	G
36	1	1521	G
36	1	1527	C
36	1	1533	U
36	1	1534	A
36	1	1541	G
36	1	1546	A
36	1	1549	U
36	1	1554	U
36	1	1555	U
36	1	1556	C
36	1	1557	A
36	1	1558	A
36	1	1560	G
36	1	1561	G
36	1	1562	C
36	1	1563	C
36	1	1564	U
36	1	1566	A
36	1	1567	U
36	1	1568	U
36	1	1569	U
36	1	1570	U
36	1	1571	A
36	1	1572	U
36	1	1573	G
36	1	1575	A
36	1	1576	G
36	1	1580	A
36	1	1581	C
36	1	1582	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	1583	A
36	1	1587	A
36	1	1589	A
36	1	1596	C
36	1	1603	A
36	1	1605	A
36	1	1607	U
36	1	1608	C
36	1	1620	U
36	1	1621	A
36	1	1623	G
36	1	1629	U
36	1	1631	C
36	1	1635	G
36	1	1639	C
36	1	1641	U
36	1	1643	A
36	1	1645	U
36	1	1657	C
36	1	1658	G
36	1	1662	G
36	1	1668	G
36	1	1669	C
36	1	1671	C
36	1	1683	A
36	1	1715	A
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1725	C
36	1	1729	A
36	1	1730	G
36	1	1741	A
36	1	1742	U
36	1	1750	A
36	1	1751	G
36	1	1762	C
36	1	1764	U
36	1	1765	U
36	1	1766	G
36	1	1767	C
36	1	1770	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	1774	C
36	1	1775	G
36	1	1779	C
36	1	1780	G
36	1	1786	G
36	1	1789	G
36	1	1793	C
36	1	1794	G
36	1	1795	U
36	1	1796	G
36	1	1797	A
36	1	1810	A
36	1	1812	G
36	1	1813	A
36	1	1814	A
36	1	1816	A
36	1	1817	G
36	1	1818	U
36	1	1819	U
36	1	1820	U
36	1	1821	U
36	1	1835	A
36	1	1838	G
36	1	1839	A
36	1	1840	U
36	1	1842	A
36	1	1846	C
36	1	1848	G
36	1	1849	C
36	1	1851	G
36	1	1858	A
36	1	1863	G
36	1	1864	A
36	1	1866	C
36	1	1872	C
36	1	1878	G
36	1	1879	A
36	1	1889	G
36	1	1895	A
36	1	1906	G
36	1	1931	U
36	1	1935	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	1936	A
36	1	1943	C
36	1	1948	G
36	1	1949	G
36	1	1951	C
36	1	1952	G
36	1	1953	G
36	1	1954	G
36	1	2094	C
36	1	2100	A
36	1	2101	C
36	1	2102	U
36	1	2111	G
36	1	2112	U
36	1	2113	A
36	1	2114	C
36	1	2116	G
36	1	2118	C
36	1	2121	G
36	1	2122	G
36	1	2131	A
36	1	2134	G
36	1	2136	C
36	1	2139	A
36	1	2140	U
36	1	2147	A
36	1	2148	U
36	1	2151	C
36	1	2158	A
36	1	2159	U
36	1	2168	A
36	1	2169	G
36	1	2171	G
36	1	2175	U
36	1	2185	G
36	1	2187	G
36	1	2188	A
36	1	2193	U
36	1	2194	G
36	1	2199	G
36	1	2200	U
36	1	2205	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	2206	G
36	1	2207	A
36	1	2208	A
36	1	2209	U
36	1	2210	G
36	1	2215	A
36	1	2220	A
36	1	2223	A
36	1	2225	U
36	1	2228	A
36	1	2234	G
36	1	2244	A
36	1	2245	C
36	1	2246	G
36	1	2249	G
36	1	2250	G
36	1	2255	A
36	1	2256	A
36	1	2257	C
36	1	2272	G
36	1	2273	G
36	1	2276	G
36	1	2279	A
36	1	2280	A
36	1	2281	A
36	1	2282	U
36	1	2283	G
36	1	2287	C
36	1	2288	G
36	1	2298	U
36	1	2303	A
36	1	2307	G
36	1	2308	C
36	1	2310	U
36	1	2313	A
36	1	2314	U
36	1	2315	G
36	1	2323	G
36	1	2324	A
36	1	2331	C
36	1	2332	A
36	1	2335	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	2336	U
36	1	2345	A
36	1	2347	U
36	1	2354	C
36	1	2366	C
36	1	2367	A
36	1	2369	G
36	1	2371	G
36	1	2372	A
36	1	2373	A
36	1	2374	C
36	1	2375	G
36	1	2379	U
36	1	2383	C
36	1	2385	G
36	1	2386	A
36	1	2387	A
36	1	2391	G
36	1	2392	C
36	1	2393	G
36	1	2397	A
36	1	2398	A
36	1	2401	A
36	1	2402	A
36	1	2403	G
36	1	2404	A
36	1	2405	C
36	1	2406	C
36	1	2410	U
36	1	2411	U
36	1	2413	A
36	1	2414	G
36	1	2418	G
36	1	2419	A
36	1	2421	U
36	1	2424	A
36	1	2425	G
36	1	2428	U
36	1	2435	G
36	1	2437	G
36	1	2443	A
36	1	2444	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	2445	A
36	1	2502	A
36	1	2503	G
36	1	2504	U
36	1	2508	U
36	1	2511	A
36	1	2513	U
36	1	2514	U
36	1	2515	A
36	1	2522	G
36	1	2523	A
36	1	2524	A
36	1	2529	A
36	1	2532	U
36	1	2533	G
36	1	2537	U
36	1	2538	U
36	1	2539	C
36	1	2540	A
36	1	2541	U
36	1	2542	U
36	1	2543	U
36	1	2544	U
36	1	2547	A
36	1	2549	G
36	1	2552	C
36	1	2554	A
36	1	2555	G
36	1	2561	A
36	1	2565	U
36	1	2567	C
36	1	2568	C
36	1	2569	A
36	1	2570	U
36	1	2571	U
36	1	2572	C
36	1	2573	G
36	1	2581	U
36	1	2582	C
36	1	2585	G
36	1	2587	U
36	1	2593	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	2594	C
36	1	2598	G
36	1	2603	G
36	1	2606	G
36	1	2607	G
36	1	2611	U
36	1	2613	U
36	1	2614	G
36	1	2615	G
36	1	2618	G
36	1	2620	G
36	1	2622	C
36	1	2627	C
36	1	2628	A
36	1	2629	U
36	1	2637	A
36	1	2642	A
36	1	2652	U
36	1	2653	C
36	1	2656	A
36	1	2657	A
36	1	2658	G
36	1	2661	G
36	1	2667	A
36	1	2672	G
36	1	2674	A
36	1	2676	A
36	1	2677	G
36	1	2681	U
36	1	2685	C
36	1	2689	A
36	1	2690	G
36	1	2691	A
36	1	2694	A
36	1	2696	A
36	1	2703	A
36	1	2705	A
36	1	2709	C
36	1	2713	U
36	1	2714	G
36	1	2719	U
36	1	2720	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	2728	G
36	1	2729	U
36	1	2737	C
36	1	2752	U
36	1	2753	G
36	1	2754	G
36	1	2762	A
36	1	2772	C
36	1	2776	C
36	1	2777	G
36	1	2778	G
36	1	2779	A
36	1	2780	A
36	1	2796	G
36	1	2799	A
36	1	2800	G
36	1	2801	A
36	1	2802	A
36	1	2803	A
36	1	2806	U
36	1	2809	C
36	1	2810	C
36	1	2814	G
36	1	2817	A
36	1	2818	U
36	1	2819	A
36	1	2827	U
36	1	2828	G
36	1	2829	U
36	1	2834	G
36	1	2838	A
36	1	2842	U
36	1	2843	U
36	1	2845	A
36	1	2847	A
36	1	2851	A
36	1	2852	C
36	1	2853	A
36	1	2855	U
36	1	2860	U
36	1	2861	U
36	1	2869	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	2871	G
36	1	2872	A
36	1	2873	U
36	1	2875	U
36	1	2876	C
36	1	2878	G
36	1	2880	U
36	1	2882	U
36	1	2883	U
36	1	2887	A
36	1	2888	U
36	1	2894	C
36	1	2898	G
36	1	2899	C
36	1	2900	A
36	1	2908	G
36	1	2912	G
36	1	2923	U
36	1	2925	C
36	1	2932	U
36	1	2935	U
36	1	2936	A
36	1	2941	A
36	1	2942	C
36	1	2945	G
36	1	2947	G
36	1	2952	G
36	1	2954	U
36	1	2955	U
36	1	2963	C
36	1	2965	U
36	1	2967	A
36	1	2970	C
36	1	2971	A
36	1	2974	U
36	1	2983	C
36	1	2992	U
36	1	2996	U
36	1	2997	G
36	1	3006	A
36	1	3011	A
36	1	3024	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	3030	G
36	1	3040	A
36	1	3049	A
36	1	3051	U
36	1	3052	G
36	1	3056	U
36	1	3057	U
36	1	3059	G
36	1	3064	U
36	1	3065	G
36	1	3068	U
36	1	3078	U
36	1	3079	U
36	1	3080	G
36	1	3084	C
36	1	3086	A
36	1	3092	C
36	1	3093	C
36	1	3094	A
36	1	3104	U
36	1	3113	A
36	1	3115	C
36	1	3117	C
36	1	3120	C
36	1	3122	A
36	1	3128	G
36	1	3129	A
36	1	3130	A
36	1	3131	U
36	1	3134	A
36	1	3136	G
36	1	3139	A
36	1	3142	A
36	1	3143	C
36	1	3147	G
36	1	3148	U
36	1	3150	A
36	1	3151	U
36	1	3154	C
36	1	3155	U
36	1	3156	U
36	1	3157	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	3164	C
36	1	3165	A
36	1	3167	A
36	1	3168	A
36	1	3170	A
36	1	3171	U
36	1	3173	G
36	1	3174	A
36	1	3176	G
36	1	3178	A
36	1	3180	A
36	1	3181	C
36	1	3187	A
36	1	3194	C
36	1	3196	U
36	1	3197	G
36	1	3198	U
36	1	3202	G
36	1	3207	U
36	1	3210	A
36	1	3217	C
36	1	3218	A
36	1	3219	G
36	1	3225	C
36	1	3228	C
36	1	3229	G
36	1	3234	A
36	1	3235	C
36	1	3236	U
36	1	3242	G
36	1	3244	A
36	1	3245	A
36	1	3246	G
36	1	3247	G
36	1	3256	G
36	1	3259	U
36	1	3260	G
36	1	3261	C
36	1	3262	U
36	1	3270	U
36	1	3273	A
36	1	3275	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	3276	G
36	1	3278	C
36	1	3279	A
36	1	3281	U
36	1	3282	U
36	1	3287	U
36	1	3289	G
36	1	3290	G
36	1	3292	A
36	1	3293	U
36	1	3294	A
36	1	3295	A
36	1	3300	U
36	1	3303	G
36	1	3304	U
36	1	3307	A
36	1	3310	A
36	1	3313	U
36	1	3316	A
36	1	3317	U
36	1	3318	G
36	1	3319	U
36	1	3320	A
36	1	3335	A
36	1	3337	G
36	1	3341	U
36	1	3342	A
36	1	3345	G
36	1	3347	A
36	1	3350	C
36	1	3351	U
36	1	3352	U
36	1	3353	G
36	1	3354	U
36	1	3355	U
36	1	3356	G
36	1	3359	A
36	1	3360	C
36	1	3362	A
36	1	3369	G
36	1	3375	A
36	1	3376	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	3378	C
36	1	3381	U
36	1	3382	U
36	1	3383	G
36	1	3386	G
36	1	3389	U
36	1	3390	G
36	1	3396	U
37	3	5	G
37	3	7	G
37	3	9	C
37	3	11	A
37	3	12	U
37	3	13	A
37	3	14	U
37	3	22	A
37	3	26	C
37	3	27	A
37	3	29	C
37	3	33	U
37	3	41	G
37	3	44	C
37	3	45	A
37	3	51	A
37	3	53	U
37	3	54	U
37	3	65	G
37	3	73	C
37	3	74	C
37	3	76	A
37	3	83	U
37	3	84	A
37	3	91	G
37	3	101	G
37	3	102	A
37	3	104	A
37	3	108	A
37	3	109	G
37	3	112	G
37	3	115	G
37	3	118	A
37	3	121	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	4	4	C
38	4	13	A
38	4	14	C
38	4	15	G
38	4	16	G
38	4	22	U
38	4	23	U
38	4	31	G
38	4	32	C
38	4	34	U
38	4	35	C
38	4	39	G
38	4	42	G
38	4	48	A
38	4	52	A
38	4	59	A
38	4	62	C
38	4	63	G
38	4	64	U
38	4	70	G
38	4	75	G
38	4	79	A
38	4	80	A
38	4	81	U
38	4	82	U
38	4	83	C
38	4	84	C
38	4	86	U
38	4	87	G
38	4	90	U
38	4	93	U
38	4	95	G
38	4	96	A
38	4	97	A
38	4	102	U
38	4	104	A
38	4	106	C
38	4	111	A
38	4	113	U
38	4	116	G
38	4	122	U
38	4	125	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	4	126	A
38	4	129	C
38	4	134	G
38	4	138	A
38	4	144	G
38	4	148	G
38	4	151	C
38	4	152	G
38	4	158	U
1	6	2	A
1	6	4	C
1	6	17	C
1	6	20	G
1	6	24	U
1	6	25	C
1	6	26	A
1	6	27	U
1	6	32	U
1	6	34	G
1	6	45	U
1	6	46	A
1	6	47	A
1	6	51	A
1	6	52	U
1	6	54	C
1	6	57	G
1	6	65	A
1	6	66	U
1	6	67	A
1	6	68	A
1	6	69	G
1	6	70	C
1	6	72	A
1	6	73	U
1	6	75	U
1	6	76	A
1	6	77	U
1	6	78	A
1	6	80	A
1	6	90	C
1	6	101	U
1	6	103	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	104	A
1	6	110	U
1	6	114	C
1	6	115	G
1	6	120	U
1	6	126	A
1	6	128	U
1	6	129	U
1	6	137	U
1	6	138	A
1	6	140	A
1	6	141	U
1	6	142	G
1	6	143	G
1	6	144	U
1	6	145	A
1	6	146	U
1	6	148	A
1	6	158	U
1	6	159	U
1	6	166	C
1	6	168	A
1	6	170	U
1	6	171	A
1	6	178	U
1	6	179	A
1	6	185	U
1	6	188	A
1	6	190	C
1	6	191	C
1	6	192	U
1	6	193	U
1	6	194	U
1	6	195	G
1	6	200	A
1	6	201	G
1	6	212	U
1	6	215	A
1	6	217	A
1	6	218	A
1	6	219	A
1	6	220	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	226	A
1	6	227	U
1	6	228	G
1	6	230	C
1	6	232	U
1	6	233	C
1	6	234	G
1	6	235	G
1	6	237	C
1	6	238	U
1	6	240	U
1	6	241	U
1	6	249	U
1	6	250	C
1	6	260	U
1	6	261	U
1	6	265	A
1	6	266	A
1	6	267	U
1	6	271	A
1	6	272	U
1	6	273	G
1	6	275	C
1	6	276	C
1	6	278	U
1	6	280	U
1	6	281	G
1	6	287	G
1	6	296	U
1	6	299	A
1	6	300	A
1	6	301	A
1	6	302	U
1	6	304	U
1	6	309	C
1	6	314	C
1	6	316	A
1	6	319	U
1	6	320	U
1	6	321	C
1	6	322	G
1	6	324	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	325	G
1	6	331	A
1	6	333	A
1	6	337	G
1	6	338	C
1	6	341	A
1	6	343	C
1	6	344	A
1	6	346	G
1	6	352	A
1	6	359	A
1	6	360	A
1	6	361	C
1	6	370	A
1	6	380	U
1	6	387	A
1	6	388	G
1	6	397	A
1	6	400	A
1	6	401	A
1	6	402	C
1	6	403	G
1	6	404	G
1	6	411	C
1	6	412	A
1	6	416	A
1	6	417	A
1	6	418	G
1	6	424	C
1	6	425	A
1	6	426	G
1	6	432	G
1	6	434	G
1	6	437	A
1	6	439	U
1	6	440	U
1	6	444	C
1	6	448	C
1	6	454	U
1	6	455	C
1	6	459	G
1	6	465	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	468	A
1	6	469	C
1	6	470	A
1	6	477	A
1	6	484	C
1	6	486	G
1	6	487	G
1	6	488	G
1	6	489	C
1	6	490	C
1	6	491	C
1	6	492	A
1	6	493	U
1	6	494	U
1	6	495	C
1	6	496	G
1	6	499	U
1	6	500	C
1	6	501	U
1	6	504	U
1	6	505	A
1	6	506	A
1	6	507	U
1	6	508	U
1	6	510	G
1	6	511	A
1	6	512	A
1	6	513	U
1	6	514	G
1	6	515	A
1	6	518	A
1	6	519	C
1	6	520	A
1	6	522	U
1	6	525	A
1	6	527	A
1	6	531	C
1	6	532	U
1	6	533	U
1	6	534	A
1	6	538	A
1	6	539	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	540	G
1	6	541	A
1	6	542	A
1	6	543	C
1	6	544	A
1	6	545	A
1	6	546	U
1	6	548	G
1	6	555	A
1	6	556	A
1	6	557	G
1	6	558	U
1	6	559	C
1	6	561	G
1	6	562	G
1	6	565	C
1	6	574	G
1	6	575	C
1	6	579	A
1	6	580	A
1	6	582	U
1	6	583	C
1	6	584	C
1	6	585	A
1	6	594	A
1	6	595	G
1	6	606	A
1	6	609	U
1	6	610	G
1	6	617	U
1	6	619	A
1	6	620	A
1	6	623	A
1	6	624	G
1	6	630	A
1	6	639	U
1	6	648	G
1	6	650	U
1	6	651	G
1	6	652	G
1	6	653	C
1	6	658	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	661	A
1	6	662	U
1	6	665	U
1	6	667	U
1	6	668	C
1	6	669	G
1	6	670	U
1	6	676	G
1	6	678	A
1	6	679	U
1	6	680	U
1	6	681	U
1	6	682	C
1	6	683	C
1	6	685	A
1	6	691	C
1	6	696	C
1	6	697	C
1	6	698	U
1	6	699	U
1	6	702	G
1	6	705	U
1	6	709	C
1	6	710	U
1	6	711	U
1	6	714	G
1	6	718	U
1	6	719	U
1	6	720	G
1	6	721	U
1	6	722	G
1	6	724	C
1	6	725	U
1	6	727	U
1	6	729	G
1	6	730	G
1	6	733	A
1	6	734	A
1	6	735	C
1	6	742	U
1	6	745	U
1	6	754	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	755	A
1	6	756	A
1	6	758	U
1	6	765	G
1	6	774	A
1	6	775	G
1	6	777	C
1	6	778	G
1	6	779	U
1	6	780	A
1	6	781	U
1	6	782	U
1	6	783	G
1	6	784	C
1	6	787	G
1	6	789	A
1	6	790	U
1	6	793	A
1	6	794	U
1	6	795	U
1	6	803	A
1	6	808	U
1	6	811	A
1	6	812	A
1	6	814	A
1	6	815	G
1	6	816	G
1	6	821	U
1	6	822	U
1	6	823	G
1	6	825	U
1	6	826	U
1	6	829	A
1	6	830	U
1	6	831	U
1	6	832	U
1	6	834	G
1	6	835	U
1	6	856	A
1	6	857	U
1	6	863	A
1	6	864	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	872	G
1	6	877	G
1	6	883	C
1	6	898	A
1	6	900	A
1	6	901	G
1	6	906	A
1	6	910	C
1	6	912	U
1	6	913	G
1	6	914	G
1	6	916	U
1	6	922	G
1	6	923	A
1	6	924	A
1	6	933	A
1	6	935	U
1	6	942	G
1	6	944	A
1	6	945	U
1	6	949	C
1	6	954	G
1	6	959	U
1	6	960	U
1	6	966	A
1	6	970	A
1	6	971	A
1	6	976	G
1	6	982	U
1	6	983	A
1	6	985	G
1	6	987	G
1	6	988	A
1	6	992	A
1	6	993	A
1	6	994	G
1	6	996	U
1	6	997	G
1	6	1003	A
1	6	1004	U
1	6	1005	A
1	6	1013	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	1021	C
1	6	1025	A
1	6	1026	A
1	6	1028	C
1	6	1029	U
1	6	1030	A
1	6	1036	A
1	6	1038	U
1	6	1039	A
1	6	1040	G
1	6	1042	G
1	6	1052	U
1	6	1053	G
1	6	1056	U
1	6	1057	U
1	6	1058	U
1	6	1059	U
1	6	1060	U
1	6	1061	A
1	6	1063	U
1	6	1065	A
1	6	1069	A
1	6	1070	C
1	6	1072	C
1	6	1074	G
1	6	1076	A
1	6	1081	A
1	6	1082	C
1	6	1083	G
1	6	1092	A
1	6	1096	C
1	6	1097	U
1	6	1098	U
1	6	1100	G
1	6	1101	G
1	6	1103	U
1	6	1106	U
1	6	1109	G
1	6	1110	G
1	6	1111	G
1	6	1125	A
1	6	1130	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	1132	A
1	6	1138	A
1	6	1140	G
1	6	1143	A
1	6	1146	G
1	6	1147	A
1	6	1155	G
1	6	1158	C
1	6	1159	C
1	6	1160	A
1	6	1162	C
1	6	1164	G
1	6	1166	A
1	6	1167	G
1	6	1172	G
1	6	1173	C
1	6	1175	U
1	6	1178	G
1	6	1183	A
1	6	1186	U
1	6	1191	U
1	6	1192	C
1	6	1193	A
1	6	1194	A
1	6	1196	A
1	6	1199	G
1	6	1200	G
1	6	1202	A
1	6	1203	A
1	6	1207	C
1	6	1208	A
1	6	1217	A
1	6	1218	G
1	6	1220	C
1	6	1228	G
1	6	1229	G
1	6	1236	A
1	6	1237	G
1	6	1239	U
1	6	1240	U
1	6	1241	G
1	6	1242	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	1243	G
1	6	1244	A
1	6	1245	G
1	6	1246	C
1	6	1249	U
1	6	1255	G
1	6	1256	A
1	6	1257	U
1	6	1258	U
1	6	1259	U
1	6	1266	U
1	6	1267	G
1	6	1275	A
1	6	1284	C
1	6	1286	U
1	6	1298	U
1	6	1304	G
1	6	1307	U
1	6	1312	A
1	6	1314	U
1	6	1315	U
1	6	1316	G
1	6	1318	G
1	6	1321	A
1	6	1334	U
1	6	1336	A
1	6	1337	A
1	6	1338	C
1	6	1341	A
1	6	1344	A
1	6	1345	A
1	6	1346	A
1	6	1347	U
1	6	1354	G
1	6	1355	C
1	6	1359	C
1	6	1360	A
1	6	1362	U
1	6	1363	U
1	6	1364	G
1	6	1370	U
1	6	1371	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	1372	U
1	6	1373	C
1	6	1374	C
1	6	1380	U
1	6	1382	A
1	6	1384	A
1	6	1385	G
1	6	1389	C
1	6	1390	U
1	6	1396	U
1	6	1398	U
1	6	1399	C
1	6	1400	A
1	6	1402	G
1	6	1404	C
1	6	1413	U
1	6	1414	U
1	6	1415	U
1	6	1421	A
1	6	1423	U
1	6	1424	A
1	6	1427	A
1	6	1428	G
1	6	1431	C
1	6	1433	G
1	6	1437	U
1	6	1438	G
1	6	1445	G
1	6	1446	A
1	6	1448	G
1	6	1451	C
1	6	1452	U
1	6	1454	G
1	6	1459	C
1	6	1460	A
1	6	1461	C
1	6	1471	A
1	6	1472	C
1	6	1474	G
1	6	1481	C
1	6	1482	C
1	6	1483	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	1486	G
1	6	1489	U
1	6	1490	C
1	6	1491	U
1	6	1492	A
1	6	1493	A
1	6	1498	G
1	6	1503	A
1	6	1504	G
1	6	1506	G
1	6	1509	C
1	6	1514	U
1	6	1515	A
1	6	1516	A
1	6	1517	U
1	6	1521	G
1	6	1523	G
1	6	1524	A
1	6	1529	C
1	6	1531	G
1	6	1534	G
1	6	1535	U
1	6	1536	G
1	6	1537	C
1	6	1538	U
1	6	1540	G
1	6	1542	G
1	6	1543	A
1	6	1544	U
1	6	1548	G
1	6	1552	U
1	6	1554	U
1	6	1555	A
1	6	1557	U
1	6	1558	U
1	6	1559	A
1	6	1569	A
1	6	1571	C
1	6	1572	G
1	6	1573	A
1	6	1574	G
1	6	1575	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	1577	A
1	6	1584	G
1	6	1590	G
1	6	1596	C
1	6	1601	G
1	6	1603	U
1	6	1605	G
1	6	1607	G
1	6	1631	A
1	6	1637	C
1	6	1640	C
1	6	1645	G
1	6	1647	U
1	6	1651	A
1	6	1655	A
1	6	1657	U
1	6	1658	G
1	6	1666	U
1	6	1668	G
1	6	1671	A
1	6	1673	G
1	6	1680	G
1	6	1692	G
1	6	1694	A
1	6	1695	G
1	6	1696	G
1	6	1697	G
1	6	1698	G
1	6	1699	G
1	6	1700	C
1	6	1701	A
1	6	1702	A
1	6	1710	U
1	6	1712	A
1	6	1715	G
1	6	1717	G
1	6	1719	A
1	6	1724	U
1	6	1725	U
1	6	1731	A
1	6	1732	A
1	6	1733	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	1738	U
1	6	1742	U
1	6	1748	G
1	6	1750	A
1	6	1751	C
1	6	1753	A
1	6	1760	G
1	6	1762	A
1	6	1763	A
1	6	1766	A
1	6	1767	G
1	6	1769	U
1	6	1770	U
1	6	1772	C
1	6	1774	G
1	6	1777	G
1	6	1779	U
1	6	1780	G
1	6	1782	A
1	6	1783	C
1	6	1787	C
1	6	1789	G
1	6	1790	A
1	6	1792	G
1	6	1793	G
1	6	1794	A
1	6	1796	C
1	6	1799	U
1	6	1800	A
36	5	10	C
36	5	15	C
36	5	16	A
36	5	19	U
36	5	25	U
36	5	26	A
36	5	28	C
36	5	29	C
36	5	32	U
36	5	35	A
36	5	40	A
36	5	43	A
36	5	44	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	45	A
36	5	47	C
36	5	49	A
36	5	52	A
36	5	57	A
36	5	59	G
36	5	60	A
36	5	62	A
36	5	64	G
36	5	65	A
36	5	66	A
36	5	67	A
36	5	68	C
36	5	69	C
36	5	73	C
36	5	74	G
36	5	76	G
36	5	92	G
36	5	93	C
36	5	94	G
36	5	95	A
36	5	96	G
36	5	97	U
36	5	99	A
36	5	101	G
36	5	109	A
36	5	110	G
36	5	113	C
36	5	116	A
36	5	117	U
36	5	118	U
36	5	119	U
36	5	121	A
36	5	122	A
36	5	123	A
36	5	133	U
36	5	134	U
36	5	135	C
36	5	136	G
36	5	142	C
36	5	147	U
36	5	151	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	152	U
36	5	155	G
36	5	156	G
36	5	157	A
36	5	158	G
36	5	161	G
36	5	165	A
36	5	166	C
36	5	170	G
36	5	171	G
36	5	172	G
36	5	174	C
36	5	181	U
36	5	184	U
36	5	187	A
36	5	188	U
36	5	190	U
36	5	191	U
36	5	200	C
36	5	201	A
36	5	206	G
36	5	210	U
36	5	212	G
36	5	213	A
36	5	218	G
36	5	219	A
36	5	221	A
36	5	231	G
36	5	234	G
36	5	237	G
36	5	239	G
36	5	240	U
36	5	241	G
36	5	242	C
36	5	244	G
36	5	248	U
36	5	249	U
36	5	250	U
36	5	251	G
36	5	252	U
36	5	253	A
36	5	254	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	255	A
36	5	258	G
36	5	259	C
36	5	261	U
36	5	267	G
36	5	269	G
36	5	270	U
36	5	272	G
36	5	275	U
36	5	282	G
36	5	283	G
36	5	284	A
36	5	286	U
36	5	295	A
36	5	297	G
36	5	299	G
36	5	311	C
36	5	315	C
36	5	323	A
36	5	329	U
36	5	334	A
36	5	338	A
36	5	339	C
36	5	344	A
36	5	347	G
36	5	349	A
36	5	350	C
36	5	351	A
36	5	354	U
36	5	358	G
36	5	359	U
36	5	365	A
36	5	368	G
36	5	370	U
36	5	372	A
36	5	376	G
36	5	381	U
36	5	390	G
36	5	397	A
36	5	398	A
36	5	399	A
36	5	401	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	402	A
36	5	403	C
36	5	404	G
36	5	407	A
36	5	415	G
36	5	419	G
36	5	421	G
36	5	422	A
36	5	423	A
36	5	436	A
36	5	437	G
36	5	438	A
36	5	439	C
36	5	441	U
36	5	442	G
36	5	443	G
36	5	492	U
36	5	494	G
36	5	496	C
36	5	501	A
36	5	507	U
36	5	510	G
36	5	516	A
36	5	521	A
36	5	531	G
36	5	535	G
36	5	536	U
36	5	541	U
36	5	542	G
36	5	545	U
36	5	546	C
36	5	547	G
36	5	548	G
36	5	556	U
36	5	557	A
36	5	558	U
36	5	559	A
36	5	560	G
36	5	561	C
36	5	578	A
36	5	579	G
36	5	582	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	586	C
36	5	587	U
36	5	588	G
36	5	589	A
36	5	592	A
36	5	594	U
36	5	595	G
36	5	596	C
36	5	604	G
36	5	607	A
36	5	609	G
36	5	610	G
36	5	611	A
36	5	618	C
36	5	619	A
36	5	620	U
36	5	621	A
36	5	626	U
36	5	632	G
36	5	634	C
36	5	635	G
36	5	636	C
36	5	646	A
36	5	648	C
36	5	649	A
36	5	660	A
36	5	662	U
36	5	666	A
36	5	677	A
36	5	681	U
36	5	683	U
36	5	685	G
36	5	691	A
36	5	699	A
36	5	705	A
36	5	706	A
36	5	708	G
36	5	712	G
36	5	715	A
36	5	716	A
36	5	726	G
36	5	727	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	734	C
36	5	736	A
36	5	740	G
36	5	742	G
36	5	743	C
36	5	757	C
36	5	758	C
36	5	763	G
36	5	764	U
36	5	766	U
36	5	767	U
36	5	768	C
36	5	771	A
36	5	774	G
36	5	776	U
36	5	777	U
36	5	781	G
36	5	783	A
36	5	785	G
36	5	786	A
36	5	804	C
36	5	806	A
36	5	807	A
36	5	810	A
36	5	815	G
36	5	817	A
36	5	818	C
36	5	821	U
36	5	830	A
36	5	837	A
36	5	845	G
36	5	846	A
36	5	859	G
36	5	860	G
36	5	861	C
36	5	862	U
36	5	863	C
36	5	865	U
36	5	866	A
36	5	869	G
36	5	874	U
36	5	877	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	879	U
36	5	881	C
36	5	882	A
36	5	884	A
36	5	887	G
36	5	888	A
36	5	890	C
36	5	895	A
36	5	896	A
36	5	897	U
36	5	901	G
36	5	904	A
36	5	907	G
36	5	908	G
36	5	914	A
36	5	916	G
36	5	917	A
36	5	921	A
36	5	923	C
36	5	924	G
36	5	935	U
36	5	937	G
36	5	938	C
36	5	941	G
36	5	944	C
36	5	947	G
36	5	955	U
36	5	959	C
36	5	960	U
36	5	965	A
36	5	966	U
36	5	979	U
36	5	980	A
36	5	981	U
36	5	983	A
36	5	990	U
36	5	992	A
36	5	993	G
36	5	994	G
36	5	1001	G
36	5	1002	A
36	5	1006	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	1007	U
36	5	1009	A
36	5	1010	G
36	5	1014	U
36	5	1015	U
36	5	1016	C
36	5	1017	C
36	5	1018	G
36	5	1021	G
36	5	1023	C
36	5	1024	G
36	5	1025	A
36	5	1026	A
36	5	1028	U
36	5	1029	G
36	5	1033	U
36	5	1035	G
36	5	1040	A
36	5	1047	A
36	5	1049	C
36	5	1052	U
36	5	1060	U
36	5	1064	A
36	5	1065	A
36	5	1071	U
36	5	1072	G
36	5	1078	U
36	5	1081	U
36	5	1082	U
36	5	1085	A
36	5	1088	U
36	5	1093	A
36	5	1095	U
36	5	1096	U
36	5	1098	A
36	5	1103	A
36	5	1104	G
36	5	1109	U
36	5	1112	A
36	5	1117	G
36	5	1118	C
36	5	1131	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	1141	C
36	5	1143	A
36	5	1144	U
36	5	1150	A
36	5	1151	U
36	5	1152	G
36	5	1153	A
36	5	1154	A
36	5	1155	C
36	5	1156	C
36	5	1159	A
36	5	1161	G
36	5	1165	A
36	5	1168	U
36	5	1175	C
36	5	1177	G
36	5	1180	A
36	5	1181	U
36	5	1182	A
36	5	1186	G
36	5	1190	A
36	5	1192	C
36	5	1196	C
36	5	1197	A
36	5	1198	C
36	5	1199	C
36	5	1201	C
36	5	1202	A
36	5	1206	G
36	5	1209	G
36	5	1212	A
36	5	1221	A
36	5	1222	G
36	5	1225	A
36	5	1232	C
36	5	1235	U
36	5	1236	G
36	5	1237	G
36	5	1239	C
36	5	1241	U
36	5	1242	G
36	5	1244	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	1245	A
36	5	1246	G
36	5	1248	C
36	5	1249	G
36	5	1252	A
36	5	1253	U
36	5	1254	C
36	5	1255	C
36	5	1258	U
36	5	1259	A
36	5	1263	A
36	5	1264	G
36	5	1265	U
36	5	1266	G
36	5	1270	A
36	5	1281	G
36	5	1285	G
36	5	1286	A
36	5	1290	A
36	5	1295	G
36	5	1305	U
36	5	1307	G
36	5	1309	U
36	5	1311	G
36	5	1313	G
36	5	1322	U
36	5	1329	U
36	5	1330	A
36	5	1332	A
36	5	1334	U
36	5	1345	G
36	5	1348	U
36	5	1349	G
36	5	1351	U
36	5	1352	A
36	5	1353	U
36	5	1354	G
36	5	1356	U
36	5	1357	G
36	5	1386	A
36	5	1390	A
36	5	1391	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	1392	G
36	5	1397	C
36	5	1398	U
36	5	1399	A
36	5	1400	G
36	5	1405	U
36	5	1408	G
36	5	1415	U
36	5	1418	A
36	5	1419	A
36	5	1428	A
36	5	1429	G
36	5	1431	G
36	5	1434	G
36	5	1437	C
36	5	1438	U
36	5	1444	G
36	5	1445	U
36	5	1446	A
36	5	1450	G
36	5	1460	A
36	5	1465	A
36	5	1467	A
36	5	1468	A
36	5	1472	U
36	5	1475	A
36	5	1481	A
36	5	1482	A
36	5	1483	G
36	5	1485	G
36	5	1490	A
36	5	1492	G
36	5	1500	G
36	5	1503	A
36	5	1508	C
36	5	1514	G
36	5	1515	A
36	5	1523	U
36	5	1527	C
36	5	1533	U
36	5	1536	G
36	5	1539	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	1551	C
36	5	1552	G
36	5	1554	U
36	5	1555	U
36	5	1556	C
36	5	1557	A
36	5	1560	G
36	5	1561	G
36	5	1562	C
36	5	1564	U
36	5	1565	G
36	5	1566	A
36	5	1567	U
36	5	1568	U
36	5	1569	U
36	5	1570	U
36	5	1571	A
36	5	1572	U
36	5	1574	C
36	5	1575	A
36	5	1576	G
36	5	1577	G
36	5	1578	C
36	5	1579	C
36	5	1580	A
36	5	1581	C
36	5	1583	A
36	5	1584	U
36	5	1585	C
36	5	1587	A
36	5	1589	A
36	5	1596	C
36	5	1607	U
36	5	1619	A
36	5	1620	U
36	5	1621	A
36	5	1629	U
36	5	1639	C
36	5	1641	U
36	5	1643	A
36	5	1644	C
36	5	1645	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	1651	U
36	5	1656	A
36	5	1658	G
36	5	1661	G
36	5	1675	G
36	5	1680	G
36	5	1683	A
36	5	1684	U
36	5	1687	U
36	5	1688	U
36	5	1689	U
36	5	1694	U
36	5	1700	G
36	5	1701	C
36	5	1703	U
36	5	1710	C
36	5	1713	G
36	5	1716	U
36	5	1717	U
36	5	1724	U
36	5	1726	C
36	5	1727	G
36	5	1736	G
36	5	1739	U
36	5	1750	A
36	5	1751	G
36	5	1752	A
36	5	1754	G
36	5	1756	C
36	5	1761	C
36	5	1762	C
36	5	1763	U
36	5	1764	U
36	5	1765	U
36	5	1766	G
36	5	1770	G
36	5	1773	C
36	5	1779	C
36	5	1780	G
36	5	1797	A
36	5	1804	A
36	5	1810	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	1814	A
36	5	1815	U
36	5	1816	A
36	5	1817	G
36	5	1818	U
36	5	1820	U
36	5	1821	U
36	5	1823	A
36	5	1834	U
36	5	1839	A
36	5	1841	A
36	5	1842	A
36	5	1845	G
36	5	1846	C
36	5	1849	C
36	5	1851	G
36	5	1876	U
36	5	1878	G
36	5	1879	A
36	5	1880	U
36	5	1881	A
36	5	1888	U
36	5	1900	A
36	5	1901	A
36	5	1906	G
36	5	1912	U
36	5	1918	C
36	5	1920	U
36	5	1921	A
36	5	1922	A
36	5	1923	C
36	5	1926	C
36	5	1935	G
36	5	1936	A
36	5	1951	C
36	5	2100	A
36	5	2101	C
36	5	2102	U
36	5	2107	A
36	5	2112	U
36	5	2113	A
36	5	2116	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	2121	G
36	5	2122	G
36	5	2126	A
36	5	2131	A
36	5	2132	C
36	5	2133	U
36	5	2134	G
36	5	2138	A
36	5	2140	U
36	5	2149	A
36	5	2155	G
36	5	2158	A
36	5	2163	C
36	5	2165	G
36	5	2166	A
36	5	2169	G
36	5	2173	U
36	5	2175	U
36	5	2176	U
36	5	2185	G
36	5	2187	G
36	5	2188	A
36	5	2189	U
36	5	2192	C
36	5	2193	U
36	5	2198	A
36	5	2202	C
36	5	2205	U
36	5	2206	G
36	5	2208	A
36	5	2209	U
36	5	2210	G
36	5	2211	U
36	5	2213	A
36	5	2218	G
36	5	2223	A
36	5	2225	U
36	5	2228	A
36	5	2229	A
36	5	2232	A
36	5	2234	G
36	5	2241	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	2244	A
36	5	2246	G
36	5	2250	G
36	5	2252	A
36	5	2253	G
36	5	2255	A
36	5	2256	A
36	5	2270	A
36	5	2273	G
36	5	2274	U
36	5	2277	C
36	5	2278	C
36	5	2281	A
36	5	2282	U
36	5	2283	G
36	5	2287	C
36	5	2288	G
36	5	2295	A
36	5	2297	U
36	5	2298	U
36	5	2300	G
36	5	2301	U
36	5	2303	A
36	5	2307	G
36	5	2308	C
36	5	2310	U
36	5	2313	A
36	5	2315	G
36	5	2324	A
36	5	2330	C
36	5	2334	U
36	5	2335	G
36	5	2336	U
36	5	2350	C
36	5	2359	C
36	5	2362	C
36	5	2363	A
36	5	2366	C
36	5	2369	G
36	5	2373	A
36	5	2374	C
36	5	2375	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	2383	C
36	5	2385	G
36	5	2386	A
36	5	2388	U
36	5	2392	C
36	5	2393	G
36	5	2394	G
36	5	2397	A
36	5	2401	A
36	5	2403	G
36	5	2405	C
36	5	2406	C
36	5	2411	U
36	5	2412	G
36	5	2413	A
36	5	2414	G
36	5	2415	C
36	5	2418	G
36	5	2419	A
36	5	2427	U
36	5	2437	G
36	5	2439	A
36	5	2440	G
36	5	2441	A
36	5	2442	G
36	5	2444	C
36	5	2505	U
36	5	2506	U
36	5	2508	U
36	5	2509	U
36	5	2510	U
36	5	2513	U
36	5	2514	U
36	5	2515	A
36	5	2523	A
36	5	2524	A
36	5	2525	G
36	5	2526	C
36	5	2529	A
36	5	2530	G
36	5	2531	C
36	5	2532	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	2535	A
36	5	2538	U
36	5	2539	C
36	5	2540	A
36	5	2541	U
36	5	2543	U
36	5	2544	U
36	5	2545	C
36	5	2549	G
36	5	2552	C
36	5	2554	A
36	5	2555	G
36	5	2556	C
36	5	2558	U
36	5	2562	A
36	5	2566	C
36	5	2567	C
36	5	2569	A
36	5	2570	U
36	5	2571	U
36	5	2572	C
36	5	2573	G
36	5	2574	G
36	5	2581	U
36	5	2584	G
36	5	2585	G
36	5	2586	G
36	5	2587	U
36	5	2588	U
36	5	2593	A
36	5	2594	C
36	5	2599	U
36	5	2603	G
36	5	2605	G
36	5	2606	G
36	5	2607	G
36	5	2614	G
36	5	2618	G
36	5	2625	C
36	5	2626	A
36	5	2629	U
36	5	2632	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	2637	A
36	5	2642	A
36	5	2647	A
36	5	2650	U
36	5	2652	U
36	5	2653	C
36	5	2656	A
36	5	2658	G
36	5	2668	U
36	5	2674	A
36	5	2676	A
36	5	2677	G
36	5	2679	A
36	5	2680	A
36	5	2681	U
36	5	2682	C
36	5	2683	U
36	5	2685	C
36	5	2689	A
36	5	2690	G
36	5	2691	A
36	5	2692	A
36	5	2694	A
36	5	2696	A
36	5	2702	A
36	5	2703	A
36	5	2705	A
36	5	2709	C
36	5	2714	G
36	5	2717	U
36	5	2720	G
36	5	2723	U
36	5	2725	U
36	5	2726	C
36	5	2727	A
36	5	2728	G
36	5	2729	U
36	5	2737	C
36	5	2752	U
36	5	2753	G
36	5	2755	C
36	5	2759	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	2760	C
36	5	2762	A
36	5	2764	C
36	5	2769	A
36	5	2772	C
36	5	2773	C
36	5	2776	C
36	5	2777	G
36	5	2778	G
36	5	2783	U
36	5	2792	A
36	5	2796	G
36	5	2799	A
36	5	2800	G
36	5	2801	A
36	5	2802	A
36	5	2808	A
36	5	2809	C
36	5	2810	C
36	5	2816	G
36	5	2817	A
36	5	2818	U
36	5	2819	A
36	5	2820	A
36	5	2836	C
36	5	2837	A
36	5	2839	G
36	5	2843	U
36	5	2845	A
36	5	2853	A
36	5	2856	G
36	5	2858	U
36	5	2868	U
36	5	2869	U
36	5	2871	G
36	5	2872	A
36	5	2873	U
36	5	2874	G
36	5	2875	U
36	5	2876	C
36	5	2878	G
36	5	2880	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	2881	C
36	5	2887	A
36	5	2889	C
36	5	2895	G
36	5	2896	A
36	5	2899	C
36	5	2900	A
36	5	2914	G
36	5	2918	G
36	5	2923	U
36	5	2927	C
36	5	2935	U
36	5	2936	A
36	5	2937	G
36	5	2939	G
36	5	2940	A
36	5	2941	A
36	5	2942	C
36	5	2944	U
36	5	2947	G
36	5	2948	C
36	5	2951	G
36	5	2954	U
36	5	2955	U
36	5	2961	G
36	5	2971	A
36	5	2972	G
36	5	2973	G
36	5	2979	U
36	5	2980	U
36	5	2982	A
36	5	2983	C
36	5	2985	C
36	5	2986	U
36	5	2990	G
36	5	2992	U
36	5	2995	A
36	5	2996	U
36	5	2997	G
36	5	2999	U
36	5	3004	C
36	5	3011	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	3012	A
36	5	3014	U
36	5	3016	A
36	5	3025	C
36	5	3028	G
36	5	3039	C
36	5	3056	U
36	5	3057	U
36	5	3059	G
36	5	3069	G
36	5	3078	U
36	5	3079	U
36	5	3080	G
36	5	3084	C
36	5	3086	A
36	5	3088	G
36	5	3092	C
36	5	3094	A
36	5	3095	U
36	5	3100	U
36	5	3102	G
36	5	3104	U
36	5	3107	U
36	5	3115	C
36	5	3119	U
36	5	3120	C
36	5	3121	U
36	5	3122	A
36	5	3127	A
36	5	3128	G
36	5	3129	A
36	5	3130	A
36	5	3131	U
36	5	3142	A
36	5	3143	C
36	5	3147	G
36	5	3148	U
36	5	3150	A
36	5	3152	U
36	5	3153	U
36	5	3154	C
36	5	3155	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	3156	U
36	5	3157	U
36	5	3158	G
36	5	3162	C
36	5	3164	C
36	5	3165	A
36	5	3168	A
36	5	3170	A
36	5	3171	U
36	5	3172	A
36	5	3173	G
36	5	3174	A
36	5	3175	U
36	5	3176	G
36	5	3179	U
36	5	3180	A
36	5	3181	C
36	5	3187	A
36	5	3194	C
36	5	3195	U
36	5	3196	U
36	5	3198	U
36	5	3199	G
36	5	3202	G
36	5	3207	U
36	5	3217	C
36	5	3218	A
36	5	3219	G
36	5	3222	U
36	5	3223	A
36	5	3229	G
36	5	3234	A
36	5	3235	C
36	5	3238	G
36	5	3240	C
36	5	3242	G
36	5	3243	A
36	5	3245	A
36	5	3246	G
36	5	3247	G
36	5	3250	U
36	5	3251	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	3253	G
36	5	3259	U
36	5	3260	G
36	5	3263	G
36	5	3265	C
36	5	3266	G
36	5	3269	U
36	5	3270	U
36	5	3271	G
36	5	3273	A
36	5	3275	U
36	5	3276	G
36	5	3277	U
36	5	3278	C
36	5	3279	A
36	5	3281	U
36	5	3282	U
36	5	3283	U
36	5	3285	C
36	5	3286	G
36	5	3287	U
36	5	3288	G
36	5	3289	G
36	5	3290	G
36	5	3294	A
36	5	3303	G
36	5	3304	U
36	5	3307	A
36	5	3309	G
36	5	3315	G
36	5	3316	A
36	5	3317	U
36	5	3318	G
36	5	3319	U
36	5	3320	A
36	5	3323	A
36	5	3330	A
36	5	3333	G
36	5	3341	U
36	5	3342	A
36	5	3343	G
36	5	3345	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	3348	G
36	5	3354	U
36	5	3355	U
36	5	3358	U
36	5	3361	G
36	5	3363	U
36	5	3368	U
36	5	3369	G
36	5	3378	C
36	5	3379	C
36	5	3383	G
36	5	3386	G
36	5	3387	U
36	5	3389	U
36	5	3390	G
36	5	3396	U
37	7	7	G
37	7	8	G
37	7	10	C
37	7	22	A
37	7	25	G
37	7	26	C
37	7	27	A
37	7	30	G
37	7	38	U
37	7	40	C
37	7	41	G
37	7	44	C
37	7	45	A
37	7	50	U
37	7	51	A
37	7	54	U
37	7	57	G
37	7	61	G
37	7	62	U
37	7	65	G
37	7	73	C
37	7	74	C
37	7	91	G
37	7	93	C
37	7	99	G
37	7	102	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	7	103	A
37	7	104	A
37	7	112	G
37	7	116	C
38	8	2	A
38	8	12	A
38	8	13	A
38	8	15	G
38	8	21	C
38	8	23	U
38	8	26	U
38	8	31	G
38	8	34	U
38	8	35	C
38	8	39	G
38	8	42	G
38	8	46	G
38	8	50	C
38	8	51	G
38	8	52	A
38	8	53	A
38	8	59	A
38	8	60	U
38	8	62	C
38	8	63	G
38	8	71	A
38	8	80	A
38	8	81	U
38	8	82	U
38	8	83	C
38	8	84	C
38	8	86	U
38	8	87	G
38	8	91	C
38	8	95	G
38	8	96	A
38	8	97	A
38	8	99	C
38	8	100	U
38	8	103	G
38	8	104	A
38	8	106	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	8	107	G
38	8	108	C
38	8	109	A
38	8	111	A
38	8	113	U
38	8	114	G
38	8	122	U
38	8	123	G
38	8	124	G
38	8	125	U
38	8	126	A
38	8	127	U
38	8	135	G
38	8	136	G
38	8	143	U
38	8	155	A
38	8	156	U
38	8	157	U
38	8	158	U

All (371) RNA pucker outliers are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	25	C
1	2	45	U
1	2	68	A
1	2	73	U
1	2	103	A
1	2	114	C
1	2	130	C
1	2	131	C
1	2	139	C
1	2	158	U
1	2	192	U
1	2	217	A
1	2	218	A
1	2	232	U
1	2	240	U
1	2	260	U
1	2	278	U
1	2	280	U
1	2	313	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	321	C
1	2	417	A
1	2	423	G
1	2	484	C
1	2	497	G
1	2	499	U
1	2	501	U
1	2	503	G
1	2	512	A
1	2	555	A
1	2	558	U
1	2	580	A
1	2	582	U
1	2	685	A
1	2	704	C
1	2	720	G
1	2	721	U
1	2	731	C
1	2	734	A
1	2	738	G
1	2	782	U
1	2	811	A
1	2	829	A
1	2	840	U
1	2	859	A
1	2	913	G
1	2	1051	G
1	2	1058	U
1	2	1108	G
1	2	1157	A
1	2	1158	C
1	2	1226	A
1	2	1228	G
1	2	1244	A
1	2	1250	U
1	2	1314	U
1	2	1339	C
1	2	1344	A
1	2	1370	U
1	2	1474	G
1	2	1481	C
1	2	1489	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2	1491	U
1	2	1568	C
1	2	1573	A
1	2	1600	A
1	2	1615	C
1	2	1657	U
1	2	1757	G
1	2	1761	U
1	2	1768	G
1	2	1769	U
36	1	13	A
36	1	43	A
36	1	59	G
36	1	109	A
36	1	115	A
36	1	169	U
36	1	210	U
36	1	217	U
36	1	239	G
36	1	285	A
36	1	341	G
36	1	374	A
36	1	518	G
36	1	547	G
36	1	619	A
36	1	637	C
36	1	705	A
36	1	719	U
36	1	763	G
36	1	873	C
36	1	896	A
36	1	908	G
36	1	916	G
36	1	979	U
36	1	981	U
36	1	993	G
36	1	1064	A
36	1	1081	U
36	1	1094	U
36	1	1096	U
36	1	1097	G
36	1	1103	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	1116	G
36	1	1154	A
36	1	1253	U
36	1	1268	G
36	1	1273	A
36	1	1307	G
36	1	1317	A
36	1	1329	U
36	1	1352	A
36	1	1355	A
36	1	1481	A
36	1	1484	U
36	1	1507	G
36	1	1514	G
36	1	1554	U
36	1	1556	C
36	1	1562	C
36	1	1589	A
36	1	1607	U
36	1	1656	A
36	1	1716	U
36	1	1815	U
36	1	1816	A
36	1	1820	U
36	1	1849	C
36	1	1930	A
36	1	2101	C
36	1	2111	G
36	1	2112	U
36	1	2209	U
36	1	2227	C
36	1	2314	U
36	1	2372	A
36	1	2374	C
36	1	2403	G
36	1	2404	A
36	1	2418	G
36	1	2513	U
36	1	2522	G
36	1	2523	A
36	1	2537	U
36	1	2541	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	1	2554	A
36	1	2570	U
36	1	2586	G
36	1	2593	A
36	1	2677	G
36	1	2702	A
36	1	2752	U
36	1	2772	C
36	1	2817	A
36	1	2818	U
36	1	2842	U
36	1	2860	U
36	1	2872	A
36	1	3048	A
36	1	3055	U
36	1	3057	U
36	1	3065	G
36	1	3078	U
36	1	3093	C
36	1	3154	C
36	1	3217	C
36	1	3218	A
36	1	3228	C
36	1	3246	G
36	1	3259	U
36	1	3269	U
36	1	3275	U
36	1	3318	G
36	1	3350	C
36	1	3351	U
36	1	3353	G
36	1	3375	A
37	3	13	A
37	3	52	G
38	4	22	U
38	4	62	C
38	4	82	U
38	4	83	C
38	4	85	G
38	4	111	A
38	4	125	U
1	6	25	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	66	U
1	6	103	A
1	6	114	C
1	6	139	C
1	6	158	U
1	6	187	G
1	6	217	A
1	6	240	U
1	6	260	U
1	6	272	U
1	6	321	C
1	6	322	G
1	6	345	U
1	6	400	A
1	6	417	A
1	6	512	A
1	6	542	A
1	6	555	A
1	6	557	G
1	6	558	U
1	6	664	U
1	6	681	U
1	6	697	C
1	6	717	C
1	6	755	A
1	6	815	G
1	6	829	A
1	6	834	G
1	6	1035	G
1	6	1051	G
1	6	1057	U
1	6	1058	U
1	6	1060	U
1	6	1081	A
1	6	1097	U
1	6	1137	A
1	6	1158	C
1	6	1196	A
1	6	1198	G
1	6	1207	C
1	6	1227	A
1	6	1238	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	6	1244	A
1	6	1255	G
1	6	1274	C
1	6	1344	A
1	6	1346	A
1	6	1431	C
1	6	1470	C
1	6	1481	C
1	6	1489	U
1	6	1491	U
1	6	1517	U
1	6	1535	U
1	6	1568	C
1	6	1572	G
1	6	1573	A
1	6	1584	G
1	6	1657	U
1	6	1696	G
1	6	1697	G
1	6	1698	G
1	6	1700	C
36	5	43	A
36	5	59	G
36	5	65	A
36	5	67	A
36	5	93	C
36	5	151	A
36	5	183	G
36	5	221	A
36	5	282	G
36	5	350	C
36	5	369	A
36	5	520	U
36	5	557	A
36	5	558	U
36	5	588	G
36	5	714	G
36	5	765	C
36	5	766	U
36	5	816	A
36	5	896	A
36	5	916	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	925	A
36	5	979	U
36	5	993	G
36	5	1017	C
36	5	1027	A
36	5	1064	A
36	5	1081	U
36	5	1152	G
36	5	1154	A
36	5	1236	G
36	5	1238	C
36	5	1241	U
36	5	1253	U
36	5	1284	C
36	5	1317	A
36	5	1329	U
36	5	1331	U
36	5	1348	U
36	5	1352	A
36	5	1355	A
36	5	1481	A
36	5	1514	G
36	5	1554	U
36	5	1560	G
36	5	1580	A
36	5	1715	A
36	5	1716	U
36	5	1815	U
36	5	1816	A
36	5	1817	G
36	5	1819	U
36	5	1841	A
36	5	1858	A
36	5	1878	G
36	5	1879	A
36	5	2101	C
36	5	2112	U
36	5	2121	G
36	5	2204	C
36	5	2205	U
36	5	2209	U
36	5	2249	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5	2255	A
36	5	2281	A
36	5	2282	U
36	5	2372	A
36	5	2374	C
36	5	2392	C
36	5	2440	G
36	5	2507	C
36	5	2513	U
36	5	2531	C
36	5	2539	C
36	5	2541	U
36	5	2572	C
36	5	2584	G
36	5	2586	G
36	5	2593	A
36	5	2677	G
36	5	2682	C
36	5	2689	A
36	5	2719	U
36	5	2752	U
36	5	2772	C
36	5	2801	A
36	5	2803	A
36	5	2817	A
36	5	2818	U
36	5	2842	U
36	5	2940	A
36	5	2971	A
36	5	3011	A
36	5	3078	U
36	5	3079	U
36	5	3121	U
36	5	3146	G
36	5	3154	C
36	5	3172	A
36	5	3173	G
36	5	3195	U
36	5	3196	U
36	5	3216	G
36	5	3218	A
36	5	3228	C

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Mol	Chain	Res	Type
36	5	3244	A
36	5	3269	U
36	5	3275	U
36	5	3276	G
36	5	3289	G
36	5	3317	U
36	5	3333	G
36	5	3340	G
36	5	3341	U
36	5	3357	U
37	7	49	G
37	7	73	C
37	7	111	U
38	8	45	C
38	8	113	U
38	8	126	A

## 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](#)

Of 2558 ligands modelled in this entry, 1426 are monoatomic - leaving 1132 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
87	OHX	1	4070	-	0,6,6	-	-	-		
87	OHX	1	3876	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	1	3893	-	0,6,6	-	-	-		
87	OHX	1	3885	-	0,6,6	-	-	-		
87	OHX	6	2052	-	0,6,6	-	-	-		
87	OHX	2	2176	-	0,6,6	-	-	-		
87	OHX	1	4099	-	0,6,6	-	-	-		
87	OHX	m0	303	-	0,6,6	-	-	-		
87	OHX	6	2123	-	0,6,6	-	-	-		
87	OHX	6	2133	-	0,6,6	-	-	-		
87	OHX	1	3969	-	0,6,6	-	-	-		
87	OHX	5	3922	-	0,6,6	-	-	-		
87	OHX	2	2106	-	0,6,6	-	-	-		
87	OHX	5	3989	-	0,6,6	-	-	-		
87	OHX	1	3912	-	0,6,6	-	-	-		
87	OHX	5	4233	-	0,6,6	-	-	-		
87	OHX	5	4119	-	0,6,6	-	-	-		
87	OHX	1	4190	-	0,6,6	-	-	-		
87	OHX	5	4155	-	0,6,6	-	-	-		
87	OHX	5	3933	-	0,6,6	-	-	-		
87	OHX	1	3892	-	0,6,6	-	-	-		
87	OHX	1	3903	-	0,6,6	-	-	-		
87	OHX	6	2098	-	0,6,6	-	-	-		
87	OHX	1	3979	-	0,6,6	-	-	-		
87	OHX	2	2087	-	0,6,6	-	-	-		
87	OHX	5	4002	-	0,6,6	-	-	-		
87	OHX	2	2089	-	0,6,6	-	-	-		
87	OHX	5	4064	-	0,6,6	-	-	-		
87	OHX	5	4174	-	0,6,6	-	-	-		
87	OHX	2	2050	-	0,6,6	-	-	-		
87	OHX	1	3909	-	0,6,6	-	-	-		
87	OHX	5	4204	-	0,6,6	-	-	-		
87	OHX	2	2134	-	0,6,6	-	-	-		
87	OHX	5	4107	-	0,6,6	-	-	-		
87	OHX	5	3990	-	0,6,6	-	-	-		
87	OHX	1	4015	-	0,6,6	-	-	-		
87	OHX	1	4109	-	0,6,6	-	-	-		
87	OHX	5	3924	-	0,6,6	-	-	-		
87	OHX	5	4056	-	0,6,6	-	-	-		
87	OHX	1	4034	-	0,6,6	-	-	-		
87	OHX	5	4181	-	0,6,6	-	-	-		
87	OHX	2	2076	-	0,6,6	-	-	-		
87	OHX	1	3902	-	0,6,6	-	-	-		
87	OHX	5	4205	-	0,6,6	-	-	-		
87	OHX	1	4073	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	1	3973	-	0,6,6	-	-	-		
87	OHX	1	3994	-	0,6,6	-	-	-		
87	OHX	1	4154	-	0,6,6	-	-	-		
87	OHX	6	2062	-	0,6,6	-	-	-		
87	OHX	5	4143	-	0,6,6	-	-	-		
87	OHX	6	2140	-	0,6,6	-	-	-		
87	OHX	5	4246	-	0,6,6	-	-	-		
87	OHX	1	4197	-	0,6,6	-	-	-		
87	OHX	6	2149	-	0,6,6	-	-	-		
87	OHX	1	4036	-	0,6,6	-	-	-		
87	OHX	sR	401	-	0,6,6	-	-	-		
87	OHX	1	4006	-	0,6,6	-	-	-		
87	OHX	6	2164	-	0,6,6	-	-	-		
87	OHX	1	4037	-	0,6,6	-	-	-		
87	OHX	1	4172	-	0,6,6	-	-	-		
87	OHX	1	4041	-	0,6,6	-	-	-		
87	OHX	1	3966	-	0,6,6	-	-	-		
87	OHX	6	2206	-	0,6,6	-	-	-		
87	OHX	8	231	-	0,6,6	-	-	-		
87	OHX	1	3934	-	0,6,6	-	-	-		
87	OHX	5	3964	-	0,6,6	-	-	-		
87	OHX	1	4144	-	0,6,6	-	-	-		
87	OHX	5	4113	-	0,6,6	-	-	-		
87	OHX	1	4060	-	0,6,6	-	-	-		
87	OHX	6	2160	-	0,6,6	-	-	-		
87	OHX	6	2114	-	0,6,6	-	-	-		
87	OHX	5	4077	-	0,6,6	-	-	-		
87	OHX	15	305	-	0,6,6	-	-	-		
87	OHX	1	3890	-	0,6,6	-	-	-		
87	OHX	1	3971	-	0,6,6	-	-	-		
87	OHX	5	4098	-	0,6,6	-	-	-		
87	OHX	2	2158	-	0,6,6	-	-	-		
87	OHX	1	4084	-	0,6,6	-	-	-		
87	OHX	14	403	-	0,6,6	-	-	-		
87	OHX	1	3986	-	0,6,6	-	-	-		
87	OHX	1	3940	-	0,6,6	-	-	-		
87	OHX	4	237	-	0,6,6	-	-	-		
87	OHX	6	2138	-	0,6,6	-	-	-		
87	OHX	5	4135	-	0,6,6	-	-	-		
87	OHX	5	4234	-	0,6,6	-	-	-		
87	OHX	1	4054	-	0,6,6	-	-	-		
87	OHX	4	236	-	0,6,6	-	-	-		
87	OHX	5	3919	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	2	2052	-	0,6,6	-	-	-		
87	OHX	1	3868	-	0,6,6	-	-	-		
87	OHX	6	2193	-	0,6,6	-	-	-		
87	OHX	5	4124	-	0,6,6	-	-	-		
87	OHX	2	2112	-	0,6,6	-	-	-		
87	OHX	1	4173	-	0,6,6	-	-	-		
87	OHX	M5	303	-	0,6,6	-	-	-		
87	OHX	1	4053	-	0,6,6	-	-	-		
87	OHX	1	4179	-	0,6,6	-	-	-		
87	OHX	5	4080	-	0,6,6	-	-	-		
87	OHX	2	2117	-	0,6,6	-	-	-		
87	OHX	5	4168	-	0,6,6	-	-	-		
87	OHX	1	3976	-	0,6,6	-	-	-		
87	OHX	5	3965	-	0,6,6	-	-	-		
87	OHX	1	4140	-	0,6,6	-	-	-		
87	OHX	2	2165	-	0,6,6	-	-	-		
87	OHX	6	2074	-	0,6,6	-	-	-		
87	OHX	5	3915	-	0,6,6	-	-	-		
87	OHX	6	2142	-	0,6,6	-	-	-		
87	OHX	2	2098	-	0,6,6	-	-	-		
87	OHX	5	4101	-	0,6,6	-	-	-		
87	OHX	5	4163	-	0,6,6	-	-	-		
87	OHX	5	4226	-	0,6,6	-	-	-		
87	OHX	5	4020	-	0,6,6	-	-	-		
87	OHX	8	226	-	0,6,6	-	-	-		
87	OHX	2	2059	-	0,6,6	-	-	-		
87	OHX	5	4044	-	0,6,6	-	-	-		
87	OHX	1	4010	-	0,6,6	-	-	-		
87	OHX	2	2032	-	0,6,6	-	-	-		
87	OHX	1	4095	-	0,6,6	-	-	-		
87	OHX	5	4224	-	0,6,6	-	-	-		
87	OHX	7	216	-	0,6,6	-	-	-		
87	OHX	8	224	-	0,6,6	-	-	-		
87	OHX	5	3918	-	0,6,6	-	-	-		
87	OHX	2	2095	-	0,6,6	-	-	-		
87	OHX	1	3907	-	0,6,6	-	-	-		
87	OHX	5	3988	-	0,6,6	-	-	-		
87	OHX	5	4198	-	0,6,6	-	-	-		
87	OHX	6	2051	-	0,6,6	-	-	-		
87	OHX	1	3964	-	0,6,6	-	-	-		
87	OHX	5	3917	-	0,6,6	-	-	-		
87	OHX	5	4127	-	0,6,6	-	-	-		
87	OHX	1	4161	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	5	3998	-	0,6,6	-	-	-		
87	OHX	5	4005	-	0,6,6	-	-	-		
87	OHX	5	4167	-	0,6,6	-	-	-		
87	OHX	6	2124	-	0,6,6	-	-	-		
87	OHX	1	3922	-	0,6,6	-	-	-		
87	OHX	5	4085	-	0,6,6	-	-	-		
87	OHX	6	2107	-	0,6,6	-	-	-		
87	OHX	6	2184	-	0,6,6	-	-	-		
87	OHX	6	2073	-	0,6,6	-	-	-		
87	OHX	6	2064	-	0,6,6	-	-	-		
87	OHX	1	4118	-	0,6,6	-	-	-		
87	OHX	5	4146	-	0,6,6	-	-	-		
87	OHX	2	2029	-	0,6,6	-	-	-		
87	OHX	S8	302	-	0,6,6	-	-	-		
87	OHX	1	3900	-	0,6,6	-	-	-		
87	OHX	1	4033	-	0,6,6	-	-	-		
87	OHX	5	4008	-	0,6,6	-	-	-		
87	OHX	6	2113	-	0,6,6	-	-	-		
87	OHX	2	2067	-	0,6,6	-	-	-		
87	OHX	5	4105	-	0,6,6	-	-	-		
87	OHX	2	2173	-	0,6,6	-	-	-		
87	OHX	8	223	-	0,6,6	-	-	-		
87	OHX	6	2104	-	0,6,6	-	-	-		
87	OHX	1	4092	-	0,6,6	-	-	-		
87	OHX	2	2066	-	0,6,6	-	-	-		
87	OHX	1	3962	-	0,6,6	-	-	-		
87	OHX	5	3945	-	0,6,6	-	-	-		
87	OHX	6	2076	-	0,6,6	-	-	-		
87	OHX	M9	202	-	0,6,6	-	-	-		
87	OHX	1	3960	-	0,6,6	-	-	-		
87	OHX	2	2111	-	0,6,6	-	-	-		
87	OHX	1	3871	-	0,6,6	-	-	-		
87	OHX	1	4205	-	0,6,6	-	-	-		
87	OHX	2	2043	-	0,6,6	-	-	-		
87	OHX	1	3992	-	0,6,6	-	-	-		
87	OHX	6	2162	-	0,6,6	-	-	-		
87	OHX	6	2118	-	0,6,6	-	-	-		
87	OHX	1	4031	-	0,6,6	-	-	-		
87	OHX	2	2097	-	0,6,6	-	-	-		
87	OHX	1	4128	-	0,6,6	-	-	-		
87	OHX	15	306	-	0,6,6	-	-	-		
87	OHX	5	4195	-	0,6,6	-	-	-		
87	OHX	1	4112	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	2	2033	-	0,6,6	-	-	-		
87	OHX	1	4106	-	0,6,6	-	-	-		
87	OHX	1	4158	-	0,6,6	-	-	-		
87	OHX	1	4199	-	0,6,6	-	-	-		
87	OHX	1	4096	-	0,6,6	-	-	-		
87	OHX	1	4166	-	0,6,6	-	-	-		
87	OHX	2	2075	-	0,6,6	-	-	-		
87	OHX	6	2115	-	0,6,6	-	-	-		
87	OHX	1	4115	-	0,6,6	-	-	-		
87	OHX	6	2205	-	0,6,6	-	-	-		
87	OHX	6	2145	-	0,6,6	-	-	-		
87	OHX	5	4028	-	0,6,6	-	-	-		
87	OHX	1	4069	-	0,6,6	-	-	-		
87	OHX	2	2034	-	0,6,6	-	-	-		
87	OHX	5	4051	-	0,6,6	-	-	-		
87	OHX	5	4201	-	0,6,6	-	-	-		
87	OHX	3	221	-	0,6,6	-	-	-		
87	OHX	5	4043	-	0,6,6	-	-	-		
87	OHX	5	4067	-	0,6,6	-	-	-		
87	OHX	1	4209	-	0,6,6	-	-	-		
87	OHX	1	4116	-	0,6,6	-	-	-		
87	OHX	1	4135	-	0,6,6	-	-	-		
87	OHX	6	2170	-	0,6,6	-	-	-		
87	OHX	2	2138	-	0,6,6	-	-	-		
87	OHX	1	4065	-	0,6,6	-	-	-		
87	OHX	1	4159	-	0,6,6	-	-	-		
87	OHX	8	219	-	0,6,6	-	-	-		
87	OHX	5	4137	-	0,6,6	-	-	-		
87	OHX	5	4149	-	0,6,6	-	-	-		
87	OHX	5	4000	-	0,6,6	-	-	-		
87	OHX	1	4134	-	0,6,6	-	-	-		
87	OHX	1	3897	-	0,6,6	-	-	-		
87	OHX	5	4019	-	0,6,6	-	-	-		
87	OHX	1	4187	-	0,6,6	-	-	-		
87	OHX	2	2090	-	0,6,6	-	-	-		
87	OHX	1	4076	-	0,6,6	-	-	-		
87	OHX	5	4215	-	0,6,6	-	-	-		
87	OHX	2	2037	-	0,6,6	-	-	-		
87	OHX	6	2148	-	0,6,6	-	-	-		
87	OHX	1	3989	-	0,6,6	-	-	-		
87	OHX	2	2040	-	0,6,6	-	-	-		
87	OHX	1	4148	-	0,6,6	-	-	-		
87	OHX	2	2084	-	0,6,6	-	-	-		



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	1	4196	-	0,6,6	-	-	-	-	-
87	OHX	2	2073	-	0,6,6	-	-	-	-	-
87	OHX	1	3965	-	0,6,6	-	-	-	-	-
87	OHX	1	4132	-	0,6,6	-	-	-	-	-
87	OHX	6	2135	-	0,6,6	-	-	-	-	-
87	OHX	5	4047	-	0,6,6	-	-	-	-	-
87	OHX	1	3870	-	0,6,6	-	-	-	-	-
87	OHX	1	3915	-	0,6,6	-	-	-	-	-
87	OHX	2	2119	-	0,6,6	-	-	-	-	-
87	OHX	5	3948	-	0,6,6	-	-	-	-	-
87	OHX	1	3943	-	0,6,6	-	-	-	-	-
87	OHX	5	4157	-	0,6,6	-	-	-	-	-
87	OHX	5	4018	-	0,6,6	-	-	-	-	-
87	OHX	5	4225	-	0,6,6	-	-	-	-	-
87	OHX	5	4239	-	0,6,6	-	-	-	-	-
87	OHX	1	4020	-	0,6,6	-	-	-	-	-
87	OHX	6	2154	-	0,6,6	-	-	-	-	-
87	OHX	2	2027	-	0,6,6	-	-	-	-	-
87	OHX	1	3877	-	0,6,6	-	-	-	-	-
87	OHX	2	2136	-	0,6,6	-	-	-	-	-
87	OHX	5	3955	-	0,6,6	-	-	-	-	-
87	OHX	2	2047	-	0,6,6	-	-	-	-	-
87	OHX	5	4147	-	0,6,6	-	-	-	-	-
87	OHX	5	4175	-	0,6,6	-	-	-	-	-
87	OHX	2	2171	-	0,6,6	-	-	-	-	-
87	OHX	1	4023	-	0,6,6	-	-	-	-	-
87	OHX	1	4090	-	0,6,6	-	-	-	-	-
87	OHX	5	4038	-	0,6,6	-	-	-	-	-
87	OHX	5	4139	-	0,6,6	-	-	-	-	-
87	OHX	1	4048	-	0,6,6	-	-	-	-	-
87	OHX	1	4198	-	0,6,6	-	-	-	-	-
87	OHX	2	2054	-	0,6,6	-	-	-	-	-
87	OHX	5	3895	-	0,6,6	-	-	-	-	-
87	OHX	5	3900	-	0,6,6	-	-	-	-	-
87	OHX	2	2115	-	0,6,6	-	-	-	-	-
87	OHX	5	4030	-	0,6,6	-	-	-	-	-
87	OHX	2	2044	-	0,6,6	-	-	-	-	-
87	OHX	5	3928	-	0,6,6	-	-	-	-	-
87	OHX	2	2113	-	0,6,6	-	-	-	-	-
87	OHX	6	2195	-	0,6,6	-	-	-	-	-
87	OHX	2	2150	-	0,6,6	-	-	-	-	-
87	OHX	5	3925	-	0,6,6	-	-	-	-	-
87	OHX	2	2163	-	0,6,6	-	-	-	-	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	2	2104	-	0,6,6	-	-	-		
87	OHX	O7	104	-	0,6,6	-	-	-		
87	OHX	5	3942	-	0,6,6	-	-	-		
87	OHX	1	4009	-	0,6,6	-	-	-		
87	OHX	5	4087	-	0,6,6	-	-	-		
87	OHX	1	4014	-	0,6,6	-	-	-		
87	OHX	1	4176	-	0,6,6	-	-	-		
87	OHX	6	2116	-	0,6,6	-	-	-		
87	OHX	2	2046	-	0,6,6	-	-	-		
87	OHX	1	3879	-	0,6,6	-	-	-		
87	OHX	6	2172	-	0,6,6	-	-	-		
87	OHX	1	3959	-	0,6,6	-	-	-		
87	OHX	6	2210	-	0,6,6	-	-	-		
87	OHX	2	2083	-	0,6,6	-	-	-		
87	OHX	2	2070	-	0,6,6	-	-	-		
87	OHX	1	3872	-	0,6,6	-	-	-		
87	OHX	6	2122	-	0,6,6	-	-	-		
87	OHX	5	3983	-	0,6,6	-	-	-		
87	OHX	4	239	-	0,6,6	-	-	-		
87	OHX	5	4083	-	0,6,6	-	-	-		
87	OHX	5	3896	-	0,6,6	-	-	-		
87	OHX	L3	405	-	0,6,6	-	-	-		
87	OHX	2	2124	-	0,6,6	-	-	-		
87	OHX	5	4125	-	0,6,6	-	-	-		
87	OHX	1	4003	-	0,6,6	-	-	-		
87	OHX	5	4024	-	0,6,6	-	-	-		
87	OHX	5	4121	-	0,6,6	-	-	-		
87	OHX	5	4081	-	0,6,6	-	-	-		
87	OHX	6	2207	-	0,6,6	-	-	-		
87	OHX	5	3905	-	0,6,6	-	-	-		
87	OHX	1	4001	-	0,6,6	-	-	-		
87	OHX	1	4082	-	0,6,6	-	-	-		
87	OHX	5	4090	-	0,6,6	-	-	-		
87	OHX	1	4174	-	0,6,6	-	-	-		
87	OHX	2	2175	-	0,6,6	-	-	-		
87	OHX	6	2053	-	0,6,6	-	-	-		
87	OHX	4	226	-	0,6,6	-	-	-		
87	OHX	2	2091	-	0,6,6	-	-	-		
87	OHX	6	2075	-	0,6,6	-	-	-		
87	OHX	1	4068	-	0,6,6	-	-	-		
87	OHX	1	4040	-	0,6,6	-	-	-		
87	OHX	1	4170	-	0,6,6	-	-	-		
87	OHX	8	221	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	1	4120	-	0,6,6	-	-	-		
87	OHX	1	3881	-	0,6,6	-	-	-		
87	OHX	1	3875	-	0,6,6	-	-	-		
87	OHX	1	3927	-	0,6,6	-	-	-		
87	OHX	1	4074	-	0,6,6	-	-	-		
87	OHX	1	3880	-	0,6,6	-	-	-		
87	OHX	5	4145	-	0,6,6	-	-	-		
87	OHX	1	3917	-	0,6,6	-	-	-		
87	OHX	5	4199	-	0,6,6	-	-	-		
87	OHX	1	3985	-	0,6,6	-	-	-		
87	OHX	6	2139	-	0,6,6	-	-	-		
87	OHX	1	4210	-	0,6,6	-	-	-		
87	OHX	s8	303	-	0,6,6	-	-	-		
87	OHX	5	4007	-	0,6,6	-	-	-		
87	OHX	1	4122	-	0,6,6	-	-	-		
87	OHX	6	2121	-	0,6,6	-	-	-		
87	OHX	1	4155	-	0,6,6	-	-	-		
87	OHX	5	4013	-	0,6,6	-	-	-		
87	OHX	2	2137	-	0,6,6	-	-	-		
87	OHX	5	4153	-	0,6,6	-	-	-		
87	OHX	5	4213	-	0,6,6	-	-	-		
87	OHX	2	2116	-	0,6,6	-	-	-		
87	OHX	4	231	-	0,6,6	-	-	-		
87	OHX	5	4110	-	0,6,6	-	-	-		
87	OHX	8	225	-	0,6,6	-	-	-		
87	OHX	2	2056	-	0,6,6	-	-	-		
87	OHX	1	3886	-	0,6,6	-	-	-		
87	OHX	2	2180	-	0,6,6	-	-	-		
87	OHX	2	2145	-	0,6,6	-	-	-		
87	OHX	6	2197	-	0,6,6	-	-	-		
87	OHX	l3	407	-	0,6,6	-	-	-		
87	OHX	1	4167	-	0,6,6	-	-	-		
87	OHX	1	3978	-	0,6,6	-	-	-		
87	OHX	M0	304	-	0,6,6	-	-	-		
87	OHX	5	4129	-	0,6,6	-	-	-		
87	OHX	5	4086	-	0,6,6	-	-	-		
87	OHX	6	2102	-	0,6,6	-	-	-		
87	OHX	6	2178	-	0,6,6	-	-	-		
87	OHX	6	2093	-	0,6,6	-	-	-		
87	OHX	5	3938	-	0,6,6	-	-	-		
87	OHX	5	3972	-	0,6,6	-	-	-		
87	OHX	1	4002	-	0,6,6	-	-	-		
87	OHX	2	2162	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	1	3948	-	0,6,6	-	-	-		
87	OHX	5	4055	-	0,6,6	-	-	-		
87	OHX	14	402	-	0,6,6	-	-	-		
87	OHX	1	4026	-	0,6,6	-	-	-		
87	OHX	m4	202	-	0,6,6	-	-	-		
87	OHX	5	3977	-	0,6,6	-	-	-		
87	OHX	2	2166	-	0,6,6	-	-	-		
87	OHX	4	235	-	0,6,6	-	-	-		
87	OHX	o7	502	-	0,6,6	-	-	-		
87	OHX	5	4074	-	0,6,6	-	-	-		
87	OHX	2	2099	-	0,6,6	-	-	-		
87	OHX	5	4169	-	0,6,6	-	-	-		
87	OHX	6	2196	-	0,6,6	-	-	-		
87	OHX	5	3946	-	0,6,6	-	-	-		
87	OHX	7	222	-	0,6,6	-	-	-		
87	OHX	1	4102	-	0,6,6	-	-	-		
87	OHX	s1	302	-	0,6,6	-	-	-		
87	OHX	5	4151	-	0,6,6	-	-	-		
87	OHX	5	4214	-	0,6,6	-	-	-		
87	OHX	1	4138	-	0,6,6	-	-	-		
87	OHX	6	2176	-	0,6,6	-	-	-		
87	OHX	2	2170	-	0,6,6	-	-	-		
87	OHX	1	3963	-	0,6,6	-	-	-		
87	OHX	5	4191	-	0,6,6	-	-	-		
87	OHX	5	4194	-	0,6,6	-	-	-		
87	OHX	6	2157	-	0,6,6	-	-	-		
87	OHX	2	2157	-	0,6,6	-	-	-		
87	OHX	L4	403	-	0,6,6	-	-	-		
87	OHX	2	2042	-	0,6,6	-	-	-		
87	OHX	2	2096	-	0,6,6	-	-	-		
87	OHX	2	2102	-	0,6,6	-	-	-		
87	OHX	1	4162	-	0,6,6	-	-	-		
87	OHX	1	3918	-	0,6,6	-	-	-		
87	OHX	6	2171	-	0,6,6	-	-	-		
87	OHX	1	4022	-	0,6,6	-	-	-		
87	OHX	6	2127	-	0,6,6	-	-	-		
87	OHX	1	3921	-	0,6,6	-	-	-		
87	OHX	1	3936	-	0,6,6	-	-	-		
87	OHX	1	4007	-	0,6,6	-	-	-		
87	OHX	6	2183	-	0,6,6	-	-	-		
87	OHX	6	2125	-	0,6,6	-	-	-		
87	OHX	1	3947	-	0,6,6	-	-	-		
87	OHX	6	2201	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	d9	102	-	0,6,6	-	-	-	-	-
87	OHX	6	2208	-	0,6,6	-	-	-	-	-
87	OHX	6	2061	-	0,6,6	-	-	-	-	-
87	OHX	6	2112	-	0,6,6	-	-	-	-	-
87	OHX	5	3991	-	0,6,6	-	-	-	-	-
87	OHX	8	222	-	0,6,6	-	-	-	-	-
87	OHX	6	2050	-	0,6,6	-	-	-	-	-
87	OHX	1	4127	-	0,6,6	-	-	-	-	-
87	OHX	1	4067	-	0,6,6	-	-	-	-	-
87	OHX	6	2080	-	0,6,6	-	-	-	-	-
87	OHX	2	2031	-	0,6,6	-	-	-	-	-
87	OHX	5	4097	-	0,6,6	-	-	-	-	-
87	OHX	2	2148	-	0,6,6	-	-	-	-	-
87	OHX	c8	202	-	0,6,6	-	-	-	-	-
87	OHX	1	4188	-	0,6,6	-	-	-	-	-
87	OHX	1	4149	-	0,6,6	-	-	-	-	-
87	OHX	2	2085	-	0,6,6	-	-	-	-	-
87	OHX	1	4157	-	0,6,6	-	-	-	-	-
87	OHX	1	3867	-	0,6,6	-	-	-	-	-
87	OHX	6	2069	-	0,6,6	-	-	-	-	-
87	OHX	5	4062	-	0,6,6	-	-	-	-	-
87	OHX	2	2039	-	0,6,6	-	-	-	-	-
87	OHX	1	4177	-	0,6,6	-	-	-	-	-
87	OHX	2	2071	-	0,6,6	-	-	-	-	-
87	OHX	1	4012	-	0,6,6	-	-	-	-	-
87	OHX	6	2203	-	0,6,6	-	-	-	-	-
87	OHX	1	4098	-	0,6,6	-	-	-	-	-
87	OHX	5	3949	-	0,6,6	-	-	-	-	-
87	OHX	5	4070	-	0,6,6	-	-	-	-	-
87	OHX	2	2093	-	0,6,6	-	-	-	-	-
87	OHX	1	3937	-	0,6,6	-	-	-	-	-
87	OHX	2	2131	-	0,6,6	-	-	-	-	-
87	OHX	1	3958	-	0,6,6	-	-	-	-	-
87	OHX	1	4047	-	0,6,6	-	-	-	-	-
87	OHX	d4	201	-	0,6,6	-	-	-	-	-
87	OHX	2	2155	-	0,6,6	-	-	-	-	-
87	OHX	5	4017	-	0,6,6	-	-	-	-	-
87	OHX	1	4094	-	0,6,6	-	-	-	-	-
87	OHX	1	4180	-	0,6,6	-	-	-	-	-
87	OHX	6	2088	-	0,6,6	-	-	-	-	-
87	OHX	5	3923	-	0,6,6	-	-	-	-	-
87	OHX	1	4091	-	0,6,6	-	-	-	-	-
87	OHX	1	3906	-	0,6,6	-	-	-	-	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	1	4147	-	0,6,6	-	-	-		
87	OHX	5	3953	-	0,6,6	-	-	-		
87	OHX	1	3866	-	0,6,6	-	-	-		
87	OHX	1	4195	-	0,6,6	-	-	-		
87	OHX	1	4207	-	0,6,6	-	-	-		
87	OHX	1	3929	-	0,6,6	-	-	-		
87	OHX	1	4105	-	0,6,6	-	-	-		
87	OHX	6	2130	-	0,6,6	-	-	-		
87	OHX	5	3967	-	0,6,6	-	-	-		
87	OHX	2	2057	-	0,6,6	-	-	-		
87	OHX	5	3999	-	0,6,6	-	-	-		
87	OHX	5	4241	-	0,6,6	-	-	-		
87	OHX	1	4211	-	0,6,6	-	-	-		
87	OHX	3	218	-	0,6,6	-	-	-		
87	OHX	2	2159	-	0,6,6	-	-	-		
87	OHX	5	3995	-	0,6,6	-	-	-		
87	OHX	5	3899	-	0,6,6	-	-	-		
87	OHX	1	4185	-	0,6,6	-	-	-		
87	OHX	8	232	-	0,6,6	-	-	-		
87	OHX	1	3939	-	0,6,6	-	-	-		
87	OHX	1	4051	-	0,6,6	-	-	-		
87	OHX	1	4057	-	0,6,6	-	-	-		
87	OHX	6	2117	-	0,6,6	-	-	-		
87	OHX	2	2139	-	0,6,6	-	-	-		
87	OHX	1	4042	-	0,6,6	-	-	-		
87	OHX	1	3968	-	0,6,6	-	-	-		
87	OHX	2	2082	-	0,6,6	-	-	-		
87	OHX	1	4111	-	0,6,6	-	-	-		
87	OHX	6	2192	-	0,6,6	-	-	-		
87	OHX	5	4172	-	0,6,6	-	-	-		
87	OHX	6	2089	-	0,6,6	-	-	-		
87	OHX	m5	303	-	0,6,6	-	-	-		
87	OHX	1	4131	-	0,6,6	-	-	-		
87	OHX	2	2144	-	0,6,6	-	-	-		
87	OHX	6	2099	-	0,6,6	-	-	-		
87	OHX	5	4066	-	0,6,6	-	-	-		
87	OHX	2	2094	-	0,6,6	-	-	-		
87	OHX	2	2140	-	0,6,6	-	-	-		
87	OHX	6	2155	-	0,6,6	-	-	-		
87	OHX	15	307	-	0,6,6	-	-	-		
87	OHX	5	3894	-	0,6,6	-	-	-		
87	OHX	6	2086	-	0,6,6	-	-	-		
87	OHX	5	4063	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	5	3921	-	0,6,6	-	-	-		
87	OHX	5	4035	-	0,6,6	-	-	-		
87	OHX	1	4126	-	0,6,6	-	-	-		
87	OHX	1	4184	-	0,6,6	-	-	-		
87	OHX	6	2211	-	0,6,6	-	-	-		
87	OHX	5	3975	-	0,6,6	-	-	-		
87	OHX	5	4054	-	0,6,6	-	-	-		
87	OHX	5	4102	-	0,6,6	-	-	-		
87	OHX	5	4178	-	0,6,6	-	-	-		
87	OHX	6	2185	-	0,6,6	-	-	-		
87	OHX	1	4113	-	0,6,6	-	-	-		
87	OHX	5	4078	-	0,6,6	-	-	-		
87	OHX	6	2072	-	0,6,6	-	-	-		
87	OHX	1	4160	-	0,6,6	-	-	-		
87	OHX	2	2107	-	0,6,6	-	-	-		
87	OHX	2	2147	-	0,6,6	-	-	-		
87	OHX	5	4156	-	0,6,6	-	-	-		
87	OHX	5	4173	-	0,6,6	-	-	-		
87	OHX	5	4053	-	0,6,6	-	-	-		
87	OHX	1	4030	-	0,6,6	-	-	-		
87	OHX	6	2128	-	0,6,6	-	-	-		
87	OHX	2	2167	-	0,6,6	-	-	-		
87	OHX	1	4087	-	0,6,6	-	-	-		
87	OHX	1	4136	-	0,6,6	-	-	-		
87	OHX	5	3979	-	0,6,6	-	-	-		
87	OHX	5	4237	-	0,6,6	-	-	-		
87	OHX	1	4153	-	0,6,6	-	-	-		
87	OHX	2	2130	-	0,6,6	-	-	-		
87	OHX	1	3873	-	0,6,6	-	-	-		
87	OHX	8	220	-	0,6,6	-	-	-		
87	OHX	2	2028	-	0,6,6	-	-	-		
87	OHX	1	4052	-	0,6,6	-	-	-		
87	OHX	1	4062	-	0,6,6	-	-	-		
87	OHX	6	2209	-	0,6,6	-	-	-		
87	OHX	5	3909	-	0,6,6	-	-	-		
87	OHX	6	2060	-	0,6,6	-	-	-		
87	OHX	1	4061	-	0,6,6	-	-	-		
87	OHX	o9	101	-	0,6,6	-	-	-		
87	OHX	5	4150	-	0,6,6	-	-	-		
87	OHX	6	2087	-	0,6,6	-	-	-		
87	OHX	2	2081	-	0,6,6	-	-	-		
87	OHX	5	4015	-	0,6,6	-	-	-		
87	OHX	5	3907	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	2	2174	-	0,6,6	-	-	-		
87	OHX	5	4109	-	0,6,6	-	-	-		
87	OHX	5	4034	-	0,6,6	-	-	-		
87	OHX	1	4175	-	0,6,6	-	-	-		
87	OHX	1	4025	-	0,6,6	-	-	-		
87	OHX	5	3902	-	0,6,6	-	-	-		
87	OHX	5	4058	-	0,6,6	-	-	-		
87	OHX	1	4079	-	0,6,6	-	-	-		
87	OHX	1	4141	-	0,6,6	-	-	-		
87	OHX	6	2058	-	0,6,6	-	-	-		
87	OHX	1	4083	-	0,6,6	-	-	-		
87	OHX	6	2106	-	0,6,6	-	-	-		
87	OHX	6	2187	-	0,6,6	-	-	-		
87	OHX	2	2156	-	0,6,6	-	-	-		
87	OHX	5	3931	-	0,6,6	-	-	-		
87	OHX	5	4152	-	0,6,6	-	-	-		
87	OHX	5	4161	-	0,6,6	-	-	-		
87	OHX	5	4197	-	0,6,6	-	-	-		
87	OHX	5	4036	-	0,6,6	-	-	-		
87	OHX	5	4006	-	0,6,6	-	-	-		
87	OHX	5	4211	-	0,6,6	-	-	-		
87	OHX	q2	502	-	0,6,6	-	-	-		
87	OHX	1	4077	-	0,6,6	-	-	-		
87	OHX	6	2059	-	0,6,6	-	-	-		
87	OHX	6	2071	-	0,6,6	-	-	-		
87	OHX	6	2100	-	0,6,6	-	-	-		
87	OHX	5	4073	-	0,6,6	-	-	-		
87	OHX	8	218	-	0,6,6	-	-	-		
87	OHX	1	3987	-	0,6,6	-	-	-		
87	OHX	5	4072	-	0,6,6	-	-	-		
87	OHX	6	2147	-	0,6,6	-	-	-		
87	OHX	5	4206	-	0,6,6	-	-	-		
87	OHX	2	2153	-	0,6,6	-	-	-		
87	OHX	5	4219	-	0,6,6	-	-	-		
87	OHX	l3	408	-	0,6,6	-	-	-		
87	OHX	1	3967	-	0,6,6	-	-	-		
87	OHX	6	2110	-	0,6,6	-	-	-		
87	OHX	1	3882	-	0,6,6	-	-	-		
87	OHX	1	3889	-	0,6,6	-	-	-		
87	OHX	5	4045	-	0,6,6	-	-	-		
87	OHX	5	4092	-	0,6,6	-	-	-		
87	OHX	5	4202	-	0,6,6	-	-	-		
87	OHX	D9	102	-	0,6,6	-	-	-		



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	5	3940	-	0,6,6	-	-	-		
87	OHX	5	4186	-	0,6,6	-	-	-		
87	OHX	1	4049	-	0,6,6	-	-	-		
87	OHX	1	3996	36	0,6,6	-	-	-		
87	OHX	5	3960	-	0,6,6	-	-	-		
87	OHX	5	4046	-	0,6,6	-	-	-		
87	OHX	5	4108	-	0,6,6	-	-	-		
87	OHX	3	219	-	0,6,6	-	-	-		
87	OHX	6	2175	-	0,6,6	-	-	-		
87	OHX	2	2114	-	0,6,6	-	-	-		
87	OHX	8	233	-	0,6,6	-	-	-		
87	OHX	1	3913	-	0,6,6	-	-	-		
87	OHX	5	4132	-	0,6,6	-	-	-		
87	OHX	1	4013	-	0,6,6	-	-	-		
87	OHX	1	3935	-	0,6,6	-	-	-		
87	OHX	1	4117	-	0,6,6	-	-	-		
87	OHX	5	4128	-	0,6,6	-	-	-		
87	OHX	1	3869	-	0,6,6	-	-	-		
87	OHX	6	2144	-	0,6,6	-	-	-		
87	OHX	5	3901	-	0,6,6	-	-	-		
87	OHX	1	3883	-	0,6,6	-	-	-		
87	OHX	1	3930	-	0,6,6	-	-	-		
87	OHX	4	225	-	0,6,6	-	-	-		
87	OHX	5	4158	-	0,6,6	-	-	-		
87	OHX	6	2167	-	0,6,6	-	-	-		
87	OHX	5	4166	-	0,6,6	-	-	-		
87	OHX	2	2125	-	0,6,6	-	-	-		
87	OHX	1	3952	-	0,6,6	-	-	-		
87	OHX	1	3928	-	0,6,6	-	-	-		
87	OHX	5	3976	-	0,6,6	-	-	-		
87	OHX	1	4044	-	0,6,6	-	-	-		
87	OHX	19	202	-	0,6,6	-	-	-		
87	OHX	1	4011	-	0,6,6	-	-	-		
87	OHX	5	4093	-	0,6,6	-	-	-		
87	OHX	8	227	-	0,6,6	-	-	-		
87	OHX	5	3987	-	0,6,6	-	-	-		
87	OHX	1	4058	-	0,6,6	-	-	-		
87	OHX	M7	206	-	0,6,6	-	-	-		
87	OHX	2	2126	-	0,6,6	-	-	-		
87	OHX	1	3904	-	0,6,6	-	-	-		
87	OHX	5	3920	-	0,6,6	-	-	-		
87	OHX	6	2137	-	0,6,6	-	-	-		
87	OHX	1	3993	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	1	4203	-	0,6,6	-	-	-		
87	OHX	6	2083	-	0,6,6	-	-	-		
87	OHX	2	2168	-	0,6,6	-	-	-		
87	OHX	5	4116	-	0,6,6	-	-	-		
87	OHX	3	224	-	0,6,6	-	-	-		
88	GET	2	2181	-	33,36,36	0.49	0	43,55,55	1.87	12 (27%)
87	OHX	5	4016	-	0,6,6	-	-	-		
87	OHX	1	3974	-	0,6,6	-	-	-		
87	OHX	1	3998	-	0,6,6	-	-	-		
87	OHX	5	4227	-	0,6,6	-	-	-		
87	OHX	2	2038	-	0,6,6	-	-	-		
87	OHX	5	3981	-	0,6,6	-	-	-		
87	OHX	5	3957	-	0,6,6	-	-	-		
87	OHX	5	4120	-	0,6,6	-	-	-		
87	OHX	5	4187	-	0,6,6	-	-	-		
87	OHX	1	3941	-	0,6,6	-	-	-		
87	OHX	1	3944	-	0,6,6	-	-	-		
87	OHX	5	4216	-	0,6,6	-	-	-		
87	OHX	2	2055	-	0,6,6	-	-	-		
87	OHX	1	4164	-	0,6,6	-	-	-		
87	OHX	5	4218	-	0,6,6	-	-	-		
87	OHX	5	4196	-	0,6,6	-	-	-		
87	OHX	5	4228	-	0,6,6	-	-	-		
87	OHX	5	3910	-	0,6,6	-	-	-		
87	OHX	5	4200	-	0,6,6	-	-	-		
87	OHX	6	2056	-	0,6,6	-	-	-		
87	OHX	5	3980	-	0,6,6	-	-	-		
87	OHX	1	4104	-	0,6,6	-	-	-		
87	OHX	5	4118	-	0,6,6	-	-	-		
87	OHX	2	2025	-	0,6,6	-	-	-		
87	OHX	6	2166	-	0,6,6	-	-	-		
87	OHX	5	3943	-	0,6,6	-	-	-		
87	OHX	5	4033	-	0,6,6	-	-	-		
87	OHX	2	2058	-	0,6,6	-	-	-		
87	OHX	6	2168	-	0,6,6	-	-	-		
87	OHX	7	218	-	0,6,6	-	-	-		
87	OHX	5	4037	-	0,6,6	-	-	-		
87	OHX	1	3916	-	0,6,6	-	-	-		
87	OHX	5	4220	-	0,6,6	-	-	-		
87	OHX	2	2026	-	0,6,6	-	-	-		
87	OHX	5	3904	-	0,6,6	-	-	-		
87	OHX	1	3899	-	0,6,6	-	-	-		
87	OHX	5	4164	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	5	3973	-	0,6,6	-	-	-		
87	OHX	5	3951	-	0,6,6	-	-	-		
87	OHX	5	4048	-	0,6,6	-	-	-		
87	OHX	5	4059	-	0,6,6	-	-	-		
87	OHX	6	2066	-	0,6,6	-	-	-		
87	OHX	1	4100	-	0,6,6	-	-	-		
87	OHX	5	4244	-	0,6,6	-	-	-		
87	OHX	6	2055	-	0,6,6	-	-	-		
87	OHX	6	2084	-	0,6,6	-	-	-		
87	OHX	6	2189	-	0,6,6	-	-	-		
87	OHX	5	4114	-	0,6,6	-	-	-		
87	OHX	5	4243	-	0,6,6	-	-	-		
87	OHX	5	4031	-	0,6,6	-	-	-		
87	OHX	6	2119	-	0,6,6	-	-	-		
87	OHX	2	2133	-	0,6,6	-	-	-		
87	OHX	5	4133	-	0,6,6	-	-	-		
87	OHX	2	2152	-	0,6,6	-	-	-		
87	OHX	5	4096	-	0,6,6	-	-	-		
87	OHX	6	2136	-	0,6,6	-	-	-		
87	OHX	2	2132	-	0,6,6	-	-	-		
87	OHX	1	4078	-	0,6,6	-	-	-		
87	OHX	1	4183	-	0,6,6	-	-	-		
87	OHX	5	3956	-	0,6,6	-	-	-		
87	OHX	2	2062	-	0,6,6	-	-	-		
87	OHX	1	4045	-	0,6,6	-	-	-		
87	OHX	O3	202	-	0,6,6	-	-	-		
87	OHX	5	4069	-	0,6,6	-	-	-		
87	OHX	5	4209	-	0,6,6	-	-	-		
87	OHX	5	4222	-	0,6,6	-	-	-		
87	OHX	6	2150	-	0,6,6	-	-	-		
87	OHX	6	2097	-	0,6,6	-	-	-		
87	OHX	6	2163	-	0,6,6	-	-	-		
87	OHX	5	4065	-	0,6,6	-	-	-		
87	OHX	5	4159	-	0,6,6	-	-	-		
87	OHX	2	2160	-	0,6,6	-	-	-		
87	OHX	5	4027	-	0,6,6	-	-	-		
87	OHX	5	4134	-	0,6,6	-	-	-		
87	OHX	m7	205	-	0,6,6	-	-	-		
87	OHX	6	2085	-	0,6,6	-	-	-		
87	OHX	5	3897	-	0,6,6	-	-	-		
87	OHX	1	4181	-	0,6,6	-	-	-		
87	OHX	1	3898	-	0,6,6	-	-	-		
87	OHX	1	3999	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	6	2169	-	0,6,6	-	-	-		
87	OHX	1	4143	-	0,6,6	-	-	-		
87	OHX	6	2063	-	0,6,6	-	-	-		
87	OHX	6	2146	-	0,6,6	-	-	-		
87	OHX	5	4148	-	0,6,6	-	-	-		
87	OHX	5	4040	-	0,6,6	-	-	-		
87	OHX	6	2198	-	0,6,6	-	-	-		
87	OHX	5	4229	-	0,6,6	-	-	-		
87	OHX	5	4154	-	0,6,6	-	-	-		
87	OHX	1	4093	-	0,6,6	-	-	-		
87	OHX	1	3920	-	0,6,6	-	-	-		
87	OHX	1	4163	-	0,6,6	-	-	-		
87	OHX	n9	103	-	0,6,6	-	-	-		
87	OHX	1	3911	-	0,6,6	-	-	-		
87	OHX	1	4038	-	0,6,6	-	-	-		
87	OHX	5	4071	-	0,6,6	-	-	-		
87	OHX	2	2123	-	0,6,6	-	-	-		
87	OHX	4	224	-	0,6,6	-	-	-		
87	OHX	5	4122	-	0,6,6	-	-	-		
87	OHX	6	2067	-	0,6,6	-	-	-		
87	OHX	5	3950	-	0,6,6	-	-	-		
87	OHX	1	4066	-	0,6,6	-	-	-		
87	OHX	5	4144	-	0,6,6	-	-	-		
87	OHX	5	3982	-	0,6,6	-	-	-		
87	OHX	1	4130	-	0,6,6	-	-	-		
87	OHX	1	3908	-	0,6,6	-	-	-		
87	OHX	1	4032	-	0,6,6	-	-	-		
87	OHX	1	3931	-	0,6,6	-	-	-		
87	OHX	1	4189	-	0,6,6	-	-	-		
87	OHX	O2	202	-	0,6,6	-	-	-		
87	OHX	5	3978	-	0,6,6	-	-	-		
87	OHX	5	4104	-	0,6,6	-	-	-		
87	OHX	1	4202	-	0,6,6	-	-	-		
87	OHX	5	4140	-	0,6,6	-	-	-		
87	OHX	4	233	-	0,6,6	-	-	-		
87	OHX	5	3916	-	0,6,6	-	-	-		
87	OHX	5	4009	-	0,6,6	-	-	-		
87	OHX	15	304	-	0,6,6	-	-	-		
87	OHX	1	3975	-	0,6,6	-	-	-		
87	OHX	5	4014	-	0,6,6	-	-	-		
87	OHX	2	2069	-	0,6,6	-	-	-		
87	OHX	C3	201	-	0,6,6	-	-	-		
87	OHX	1	4072	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	1	4124	-	0,6,6	-	-	-		
87	OHX	5	4039	-	0,6,6	-	-	-		
87	OHX	2	2078	-	0,6,6	-	-	-		
87	OHX	1	4080	-	0,6,6	-	-	-		
87	OHX	1	4178	-	0,6,6	-	-	-		
87	OHX	3	225	-	0,6,6	-	-	-		
87	OHX	5	4075	-	0,6,6	-	-	-		
87	OHX	6	2134	-	0,6,6	-	-	-		
87	OHX	5	4212	-	0,6,6	-	-	-		
87	OHX	5	4221	-	0,6,6	-	-	-		
87	OHX	6	2156	-	0,6,6	-	-	-		
87	OHX	5	4231	-	0,6,6	-	-	-		
87	OHX	1	4088	-	0,6,6	-	-	-		
87	OHX	1	4119	-	0,6,6	-	-	-		
87	OHX	3	217	-	0,6,6	-	-	-		
87	OHX	2	2128	-	0,6,6	-	-	-		
87	OHX	1	4081	-	0,6,6	-	-	-		
87	OHX	1	4156	-	0,6,6	-	-	-		
87	OHX	1	3933	-	0,6,6	-	-	-		
87	OHX	3	216	-	0,6,6	-	-	-		
87	OHX	L3	403	-	0,6,6	-	-	-		
87	OHX	1	4101	-	0,6,6	-	-	-		
87	OHX	6	2141	-	0,6,6	-	-	-		
87	OHX	6	2180	-	0,6,6	-	-	-		
87	OHX	7	223	-	0,6,6	-	-	-		
87	OHX	5	4142	-	0,6,6	-	-	-		
87	OHX	m9	201	-	0,6,6	-	-	-		
87	OHX	1	4204	-	0,6,6	-	-	-		
87	OHX	2	2172	-	0,6,6	-	-	-		
87	OHX	1	3891	-	0,6,6	-	-	-		
87	OHX	5	3939	-	0,6,6	-	-	-		
87	OHX	1	4107	-	0,6,6	-	-	-		
87	OHX	5	4138	-	0,6,6	-	-	-		
87	OHX	5	4165	-	0,6,6	-	-	-		
87	OHX	1	3990	-	0,6,6	-	-	-		
87	OHX	5	4082	-	0,6,6	-	-	-		
87	OHX	1	3924	-	0,6,6	-	-	-		
87	OHX	1	3988	-	0,6,6	-	-	-		
87	OHX	1	4056	-	0,6,6	-	-	-		
87	OHX	5	4095	-	0,6,6	-	-	-		
87	OHX	5	4189	-	0,6,6	-	-	-		
87	OHX	6	2129	-	0,6,6	-	-	-		
87	OHX	5	3954	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	2	2161	-	0,6,6	-	-	-		
87	OHX	1	4150	-	0,6,6	-	-	-		
87	OHX	1	4208	-	0,6,6	-	-	-		
87	OHX	6	2132	-	0,6,6	-	-	-		
87	OHX	c5	201	-	0,6,6	-	-	-		
87	OHX	1	4005	-	0,6,6	-	-	-		
87	OHX	5	3936	-	0,6,6	-	-	-		
87	OHX	5	4022	-	0,6,6	-	-	-		
87	OHX	5	4170	-	0,6,6	-	-	-		
87	OHX	5	4193	-	0,6,6	-	-	-		
87	OHX	1	4085	-	0,6,6	-	-	-		
87	OHX	6	2194	-	0,6,6	-	-	-		
87	OHX	1	4152	-	0,6,6	-	-	-		
87	OHX	5	3927	-	0,6,6	-	-	-		
87	OHX	5	4236	-	0,6,6	-	-	-		
87	OHX	1	4146	-	0,6,6	-	-	-		
87	OHX	5	4217	-	0,6,6	-	-	-		
87	OHX	5	3985	-	0,6,6	-	-	-		
87	OHX	2	2169	-	0,6,6	-	-	-		
87	OHX	1	4050	-	0,6,6	-	-	-		
87	OHX	3	220	-	0,6,6	-	-	-		
87	OHX	2	2024	-	0,6,6	-	-	-		
87	OHX	6	2190	-	0,6,6	-	-	-		
87	OHX	6	2096	-	0,6,6	-	-	-		
87	OHX	1	4206	-	0,6,6	-	-	-		
87	OHX	c3	201	-	0,6,6	-	-	-		
87	OHX	5	4223	-	0,6,6	-	-	-		
87	OHX	1	3896	-	0,6,6	-	-	-		
87	OHX	2	2065	-	0,6,6	-	-	-		
87	OHX	6	2081	-	0,6,6	-	-	-		
87	OHX	6	2054	-	0,6,6	-	-	-		
87	OHX	1	4000	-	0,6,6	-	-	-		
87	OHX	5	4012	-	0,6,6	-	-	-		
87	OHX	1	4192	-	0,6,6	-	-	-		
87	OHX	1	3884	-	0,6,6	-	-	-		
87	OHX	1	4186	-	0,6,6	-	-	-		
87	OHX	1	3919	-	0,6,6	-	-	-		
87	OHX	2	2146	-	0,6,6	-	-	-		
87	OHX	1	3874	-	0,6,6	-	-	-		
87	OHX	o3	203	-	0,6,6	-	-	-		
87	OHX	D3	202	-	0,6,6	-	-	-		
87	OHX	1	4168	-	0,6,6	-	-	-		
87	OHX	6	2108	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	5	4026	-	0,6,6	-	-	-		
87	OHX	5	3997	-	0,6,6	-	-	-		
87	OHX	2	2051	-	0,6,6	-	-	-		
87	OHX	5	3970	-	0,6,6	-	-	-		
87	OHX	1	4071	-	0,6,6	-	-	-		
87	OHX	6	2151	-	0,6,6	-	-	-		
87	OHX	1	4171	-	0,6,6	-	-	-		
87	OHX	5	4052	-	0,6,6	-	-	-		
87	OHX	1	3984	-	0,6,6	-	-	-		
87	OHX	5	4238	-	0,6,6	-	-	-		
87	OHX	L3	404	-	0,6,6	-	-	-		
87	OHX	5	3929	-	0,6,6	-	-	-		
87	OHX	1	4201	-	0,6,6	-	-	-		
87	OHX	2	2049	-	0,6,6	-	-	-		
87	OHX	1	4191	-	0,6,6	-	-	-		
87	OHX	1	4043	-	0,6,6	-	-	-		
87	OHX	1	4194	-	0,6,6	-	-	-		
87	OHX	6	2109	-	0,6,6	-	-	-		
87	OHX	2	2063	-	0,6,6	-	-	-		
87	OHX	2	2154	-	0,6,6	-	-	-		
87	OHX	1	4108	-	0,6,6	-	-	-		
87	OHX	5	3932	-	0,6,6	-	-	-		
87	OHX	1	4114	-	0,6,6	-	-	-		
87	OHX	6	2079	-	0,6,6	-	-	-		
87	OHX	5	4182	-	0,6,6	-	-	-		
87	OHX	4	227	-	0,6,6	-	-	-		
87	OHX	5	4057	-	0,6,6	-	-	-		
87	OHX	6	2120	-	0,6,6	-	-	-		
87	OHX	6	2159	-	0,6,6	-	-	-		
87	OHX	1	4137	-	0,6,6	-	-	-		
87	OHX	5	4088	-	0,6,6	-	-	-		
87	OHX	5	4106	-	0,6,6	-	-	-		
87	OHX	5	4171	-	0,6,6	-	-	-		
87	OHX	5	4042	-	0,6,6	-	-	-		
87	OHX	1	4019	-	0,6,6	-	-	-		
87	OHX	6	2090	-	0,6,6	-	-	-		
87	OHX	6	2182	-	0,6,6	-	-	-		
87	OHX	5	4192	-	0,6,6	-	-	-		
87	OHX	1	4039	-	0,6,6	-	-	-		
87	OHX	1	4016	-	0,6,6	-	-	-		
87	OHX	1	4212	-	0,6,6	-	-	-		
87	OHX	6	2091	-	0,6,6	-	-	-		
87	OHX	3	215	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	6	2065	-	0,6,6	-	-	-		
87	OHX	1	4097	-	0,6,6	-	-	-		
87	OHX	1	4089	-	0,6,6	-	-	-		
87	OHX	5	3947	-	0,6,6	-	-	-		
87	OHX	6	2070	-	0,6,6	-	-	-		
87	OHX	5	4131	-	0,6,6	-	-	-		
87	OHX	C8	201	-	0,6,6	-	-	-		
87	OHX	2	2118	-	0,6,6	-	-	-		
87	OHX	1	3901	-	0,6,6	-	-	-		
87	OHX	1	3957	-	0,6,6	-	-	-		
87	OHX	4	228	-	0,6,6	-	-	-		
87	OHX	6	2057	-	0,6,6	-	-	-		
87	OHX	5	3914	-	0,6,6	-	-	-		
87	OHX	5	4076	-	0,6,6	-	-	-		
87	OHX	1	4008	-	0,6,6	-	-	-		
87	OHX	1	4123	-	0,6,6	-	-	-		
87	OHX	1	4142	-	0,6,6	-	-	-		
87	OHX	5	3898	-	0,6,6	-	-	-		
87	OHX	1	4200	-	0,6,6	-	-	-		
87	OHX	1	3980	-	0,6,6	-	-	-		
87	OHX	6	2143	-	0,6,6	-	-	-		
87	OHX	6	2179	-	0,6,6	-	-	-		
87	OHX	5	3984	-	0,6,6	-	-	-		
87	OHX	5	4184	-	0,6,6	-	-	-		
87	OHX	5	4188	-	0,6,6	-	-	-		
87	OHX	1	3955	-	0,6,6	-	-	-		
87	OHX	1	4165	-	0,6,6	-	-	-		
87	OHX	2	2036	-	0,6,6	-	-	-		
87	OHX	1	3945	-	0,6,6	-	-	-		
87	OHX	5	4099	-	0,6,6	-	-	-		
87	OHX	2	2108	-	0,6,6	-	-	-		
87	OHX	1	4139	-	0,6,6	-	-	-		
87	OHX	5	4162	-	0,6,6	-	-	-		
87	OHX	Q2	502	-	0,6,6	-	-	-		
87	OHX	5	4177	-	0,6,6	-	-	-		
87	OHX	5	4210	-	0,6,6	-	-	-		
87	OHX	1	3895	-	0,6,6	-	-	-		
87	OHX	7	226	-	0,6,6	-	-	-		
87	OHX	5	4029	-	0,6,6	-	-	-		
87	OHX	6	2191	-	0,6,6	-	-	-		
87	OHX	5	3912	-	0,6,6	-	-	-		
87	OHX	2	2164	-	0,6,6	-	-	-		
87	OHX	5	3937	-	0,6,6	-	-	-		



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	5	3958	-	0,6,6	-	-	-		
87	OHX	5	4023	-	0,6,6	-	-	-		
87	OHX	6	2094	-	0,6,6	-	-	-		
87	OHX	5	4235	-	0,6,6	-	-	-		
87	OHX	1	3951	-	0,6,6	-	-	-		
87	OHX	1	4046	-	0,6,6	-	-	-		
87	OHX	1	4059	-	0,6,6	-	-	-		
87	OHX	6	2101	-	0,6,6	-	-	-		
87	OHX	2	2077	-	0,6,6	-	-	-		
87	OHX	2	2105	-	0,6,6	-	-	-		
87	OHX	1	3981	-	0,6,6	-	-	-		
87	OHX	2	2149	-	0,6,6	-	-	-		
87	OHX	6	2204	-	0,6,6	-	-	-		
87	OHX	5	4094	-	0,6,6	-	-	-		
87	OHX	5	4180	-	0,6,6	-	-	-		
87	OHX	1	4021	-	0,6,6	-	-	-		
87	OHX	5	4060	-	0,6,6	-	-	-		
87	OHX	5	3963	-	0,6,6	-	-	-		
87	OHX	5	4091	-	0,6,6	-	-	-		
87	OHX	5	3906	-	0,6,6	-	-	-		
87	OHX	5	4089	-	0,6,6	-	-	-		
87	OHX	5	4136	-	0,6,6	-	-	-		
87	OHX	1	3995	-	0,6,6	-	-	-		
87	OHX	2	2135	-	0,6,6	-	-	-		
87	OHX	5	4207	-	0,6,6	-	-	-		
87	OHX	1	4133	-	0,6,6	-	-	-		
87	OHX	1	3982	-	0,6,6	-	-	-		
87	OHX	6	2200	-	0,6,6	-	-	-		
87	OHX	1	3956	-	0,6,6	-	-	-		
87	OHX	1	4103	-	0,6,6	-	-	-		
87	OHX	1	3878	-	0,6,6	-	-	-		
87	OHX	1	4125	-	0,6,6	-	-	-		
87	OHX	6	2131	-	0,6,6	-	-	-		
87	OHX	5	4185	-	0,6,6	-	-	-		
87	OHX	8	229	-	0,6,6	-	-	-		
87	OHX	m1	202	-	0,6,6	-	-	-		
87	OHX	1	4121	-	0,6,6	-	-	-		
87	OHX	SR	401	-	0,6,6	-	-	-		
87	OHX	6	2153	-	0,6,6	-	-	-		
87	OHX	5	4025	-	0,6,6	-	-	-		
87	OHX	2	2151	-	0,6,6	-	-	-		
87	OHX	1	3905	-	0,6,6	-	-	-		
87	OHX	4	229	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	5	3966	-	0,6,6	-	-	-		
87	OHX	6	2103	-	0,6,6	-	-	-		
87	OHX	5	4003	-	0,6,6	-	-	-		
87	OHX	2	2127	-	0,6,6	-	-	-		
87	OHX	5	3968	-	0,6,6	-	-	-		
87	OHX	5	4004	-	0,6,6	-	-	-		
87	OHX	5	4111	-	0,6,6	-	-	-		
87	OHX	5	4001	-	0,6,6	-	-	-		
87	OHX	8	234	-	0,6,6	-	-	-		
87	OHX	5	3971	-	0,6,6	-	-	-		
87	OHX	5	3926	-	0,6,6	-	-	-		
87	OHX	6	2082	-	0,6,6	-	-	-		
87	OHX	2	2120	-	0,6,6	-	-	-		
87	OHX	5	4068	-	0,6,6	-	-	-		
87	OHX	2	2121	-	0,6,6	-	-	-		
87	OHX	1	4145	-	0,6,6	-	-	-		
87	OHX	5	4190	-	0,6,6	-	-	-		
87	OHX	5	4049	-	0,6,6	-	-	-		
87	OHX	5	4126	-	0,6,6	-	-	-		
87	OHX	4	240	-	0,6,6	-	-	-		
87	OHX	1	4110	-	0,6,6	-	-	-		
87	OHX	6	2181	-	0,6,6	-	-	-		
87	OHX	6	2173	-	0,6,6	-	-	-		
87	OHX	2	2122	-	0,6,6	-	-	-		
87	OHX	5	4103	-	0,6,6	-	-	-		
87	OHX	2	2103	-	0,6,6	-	-	-		
87	OHX	4	238	-	0,6,6	-	-	-		
87	OHX	2	2068	-	0,6,6	-	-	-		
87	OHX	1	3961	-	0,6,6	-	-	-		
87	OHX	1	4193	-	0,6,6	-	-	-		
87	OHX	5	4123	-	0,6,6	-	-	-		
87	OHX	5	4160	-	0,6,6	-	-	-		
87	OHX	1	3925	-	0,6,6	-	-	-		
87	OHX	5	4230	-	0,6,6	-	-	-		
87	OHX	1	4086	-	0,6,6	-	-	-		
87	OHX	1	3938	-	0,6,6	-	-	-		
87	OHX	1	3942	-	0,6,6	-	-	-		
87	OHX	5	4183	-	0,6,6	-	-	-		
87	OHX	1	3972	-	0,6,6	-	-	-		
87	OHX	1	4055	-	0,6,6	-	-	-		
87	OHX	2	2179	-	0,6,6	-	-	-		
87	OHX	1	3997	-	0,6,6	-	-	-		
87	OHX	3	223	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	1	3983	-	0,6,6	-	-	-		
87	OHX	1	3946	-	0,6,6	-	-	-		
87	OHX	2	2035	-	0,6,6	-	-	-		
87	OHX	6	2095	-	0,6,6	-	-	-		
87	OHX	2	2143	-	0,6,6	-	-	-		
87	OHX	2	2060	-	0,6,6	-	-	-		
87	OHX	5	4061	-	0,6,6	-	-	-		
87	OHX	5	4130	-	0,6,6	-	-	-		
87	OHX	8	230	-	0,6,6	-	-	-		
87	OHX	m0	302	-	0,6,6	-	-	-		
87	OHX	5	4021	-	0,6,6	-	-	-		
87	OHX	1	4151	-	0,6,6	-	-	-		
87	OHX	1	4024	-	0,6,6	-	-	-		
87	OHX	5	4084	-	0,6,6	-	-	-		
87	OHX	1	4029	-	0,6,6	-	-	-		
87	OHX	1	3950	-	0,6,6	-	-	-		
87	OHX	6	2092	-	0,6,6	-	-	-		
87	OHX	6	2105	-	0,6,6	-	-	-		
87	OHX	5	3944	-	0,6,6	-	-	-		
87	OHX	5	4208	-	0,6,6	-	-	-		
87	OHX	M6	202	-	0,6,6	-	-	-		
87	OHX	6	2177	-	0,6,6	-	-	-		
87	OHX	O7	103	-	0,6,6	-	-	-		
87	OHX	6	2126	-	0,6,6	-	-	-		
87	OHX	5	4115	-	0,6,6	-	-	-		
87	OHX	6	2202	-	0,6,6	-	-	-		
87	OHX	1	4027	-	0,6,6	-	-	-		
87	OHX	5	3911	-	0,6,6	-	-	-		
87	OHX	5	3962	-	0,6,6	-	-	-		
87	OHX	2	2048	-	0,6,6	-	-	-		
87	OHX	2	2110	-	0,6,6	-	-	-		
87	OHX	1	3991	-	0,6,6	-	-	-		
87	OHX	M9	203	-	0,6,6	-	-	-		
87	OHX	5	3969	-	0,6,6	-	-	-		
87	OHX	5	4179	-	0,6,6	-	-	-		
87	OHX	2	2178	-	0,6,6	-	-	-		
87	OHX	1	3932	-	0,6,6	-	-	-		
87	OHX	O1	202	-	0,6,6	-	-	-		
87	OHX	6	2174	-	0,6,6	-	-	-		
87	OHX	6	2111	-	0,6,6	-	-	-		
87	OHX	6	2077	-	0,6,6	-	-	-		
87	OHX	5	3903	-	0,6,6	-	-	-		
87	OHX	5	3996	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	1	4169	-	0,6,6	-	-	-		
87	OHX	5	4242	-	0,6,6	-	-	-		
87	OHX	2	2045	-	0,6,6	-	-	-		
87	OHX	5	4112	-	0,6,6	-	-	-		
87	OHX	5	3913	-	0,6,6	-	-	-		
87	OHX	2	2064	-	0,6,6	-	-	-		
87	OHX	6	2188	-	0,6,6	-	-	-		
87	OHX	8	235	-	0,6,6	-	-	-		
87	OHX	1	4129	-	0,6,6	-	-	-		
87	OHX	4	232	-	0,6,6	-	-	-		
87	OHX	1	3949	-	0,6,6	-	-	-		
87	OHX	5	3935	-	0,6,6	-	-	-		
87	OHX	5	4117	-	0,6,6	-	-	-		
87	OHX	5	3994	-	0,6,6	-	-	-		
87	OHX	n3	202	-	0,6,6	-	-	-		
87	OHX	1	4064	-	0,6,6	-	-	-		
87	OHX	5	3930	-	0,6,6	-	-	-		
87	OHX	2	2141	-	0,6,6	-	-	-		
87	OHX	1	3926	-	0,6,6	-	-	-		
87	OHX	1	4017	-	0,6,6	-	-	-		
87	OHX	5	3952	-	0,6,6	-	-	-		
87	OHX	5	4011	-	0,6,6	-	-	-		
87	OHX	1	3923	-	0,6,6	-	-	-		
87	OHX	5	4041	-	0,6,6	-	-	-		
87	OHX	5	4245	-	0,6,6	-	-	-		
87	OHX	1	3888	-	0,6,6	-	-	-		
87	OHX	5	3961	-	0,6,6	-	-	-		
87	OHX	1	3910	-	0,6,6	-	-	-		
87	OHX	1	3977	-	0,6,6	-	-	-		
87	OHX	1	4028	-	0,6,6	-	-	-		
87	OHX	5	3934	-	0,6,6	-	-	-		
87	OHX	1	3953	-	0,6,6	-	-	-		
87	OHX	2	2100	-	0,6,6	-	-	-		
87	OHX	5	4203	-	0,6,6	-	-	-		
87	OHX	7	221	-	0,6,6	-	-	-		
87	OHX	2	2177	-	0,6,6	-	-	-		
87	OHX	6	2158	-	0,6,6	-	-	-		
87	OHX	5	4232	-	0,6,6	-	-	-		
87	OHX	2	2101	-	0,6,6	-	-	-		
87	OHX	1	4075	-	0,6,6	-	-	-		
87	OHX	2	2061	-	0,6,6	-	-	-		
87	OHX	1	3954	-	0,6,6	-	-	-		
87	OHX	1	3970	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	5	4240	-	0,6,6	-	-	-		
87	OHX	q1	102	-	0,6,6	-	-	-		
87	OHX	6	2068	-	0,6,6	-	-	-		
87	OHX	2	2080	-	0,6,6	-	-	-		
87	OHX	6	2199	-	0,6,6	-	-	-		
87	OHX	5	3974	-	0,6,6	-	-	-		
87	OHX	5	3986	-	0,6,6	-	-	-		
87	OHX	2	2086	-	0,6,6	-	-	-		
87	OHX	8	228	-	0,6,6	-	-	-		
87	OHX	6	2152	-	0,6,6	-	-	-		
87	OHX	6	2078	-	0,6,6	-	-	-		
87	OHX	5	3941	-	0,6,6	-	-	-		
87	OHX	2	2074	-	0,6,6	-	-	-		
87	OHX	1	3887	-	0,6,6	-	-	-		
87	OHX	5	3992	-	0,6,6	-	-	-		
87	OHX	2	2109	-	0,6,6	-	-	-		
87	OHX	2	2142	-	0,6,6	-	-	-		
87	OHX	7	225	-	0,6,6	-	-	-		
87	OHX	1	4182	-	0,6,6	-	-	-		
87	OHX	5	3959	-	0,6,6	-	-	-		
87	OHX	7	217	-	0,6,6	-	-	-		
87	OHX	5	3993	-	0,6,6	-	-	-		
87	OHX	2	2030	-	0,6,6	-	-	-		
87	OHX	2	2041	-	0,6,6	-	-	-		
87	OHX	2	2129	-	0,6,6	-	-	-		
87	OHX	5	4050	-	0,6,6	-	-	-		
87	OHX	7	219	-	0,6,6	-	-	-		
87	OHX	2	2092	-	0,6,6	-	-	-		
87	OHX	7	224	-	0,6,6	-	-	-		
87	OHX	1	4018	-	0,6,6	-	-	-		
87	OHX	4	230	-	0,6,6	-	-	-		
87	OHX	1	3894	-	0,6,6	-	-	-		
87	OHX	2	2088	-	0,6,6	-	-	-		
87	OHX	4	234	-	0,6,6	-	-	-		
87	OHX	2	2079	-	0,6,6	-	-	-		
87	OHX	1	4063	-	0,6,6	-	-	-		
87	OHX	5	4079	-	0,6,6	-	-	-		
87	OHX	5	4141	-	0,6,6	-	-	-		
87	OHX	1	4035	-	0,6,6	-	-	-		
87	OHX	3	222	-	0,6,6	-	-	-		
87	OHX	1	3914	-	0,6,6	-	-	-		
87	OHX	N9	102	-	0,6,6	-	-	-		
87	OHX	5	3908	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
87	OHX	5	4010	-	0,6,6	-	-	-		
87	OHX	2	2072	-	0,6,6	-	-	-		
87	OHX	6	2161	-	0,6,6	-	-	-		
87	OHX	2	2053	-	0,6,6	-	-	-		
87	OHX	5	4032	-	0,6,6	-	-	-		
87	OHX	6	2186	-	0,6,6	-	-	-		
87	OHX	5	4100	-	0,6,6	-	-	-		
87	OHX	5	4176	-	0,6,6	-	-	-		
87	OHX	7	220	-	0,6,6	-	-	-		
87	OHX	6	2165	-	0,6,6	-	-	-		
87	OHX	C5	201	-	0,6,6	-	-	-		
87	OHX	1	4004	-	0,6,6	-	-	-		

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	GET	2	2181	-	-	1/13/74/74	0/3/3/3

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
88	2	2181	GET	C23-C33-N33	-6.00	94.93	110.84
88	2	2181	GET	O11-C42-C32	-5.70	95.57	109.18
88	2	2181	GET	O62-C62-C12	-3.45	100.96	109.18
88	2	2181	GET	O11-C11-C21	-3.34	102.47	108.22
88	2	2181	GET	C32-C22-C12	2.58	116.47	111.18
88	2	2181	GET	O51-C11-C21	2.47	115.61	110.06
88	2	2181	GET	O23-C23-C13	-2.42	104.17	110.05
88	2	2181	GET	C11-C21-N21	2.24	114.24	110.20
88	2	2181	GET	C13-O62-C62	-2.16	112.61	117.96
88	2	2181	GET	C41-C31-C21	-2.10	107.47	111.07
88	2	2181	GET	C71-C61-C51	2.09	114.47	112.02
88	2	2181	GET	C53-O53-C13	-2.08	108.19	111.53

There are no chirality outliers.

All (1) torsion outliers are listed below:

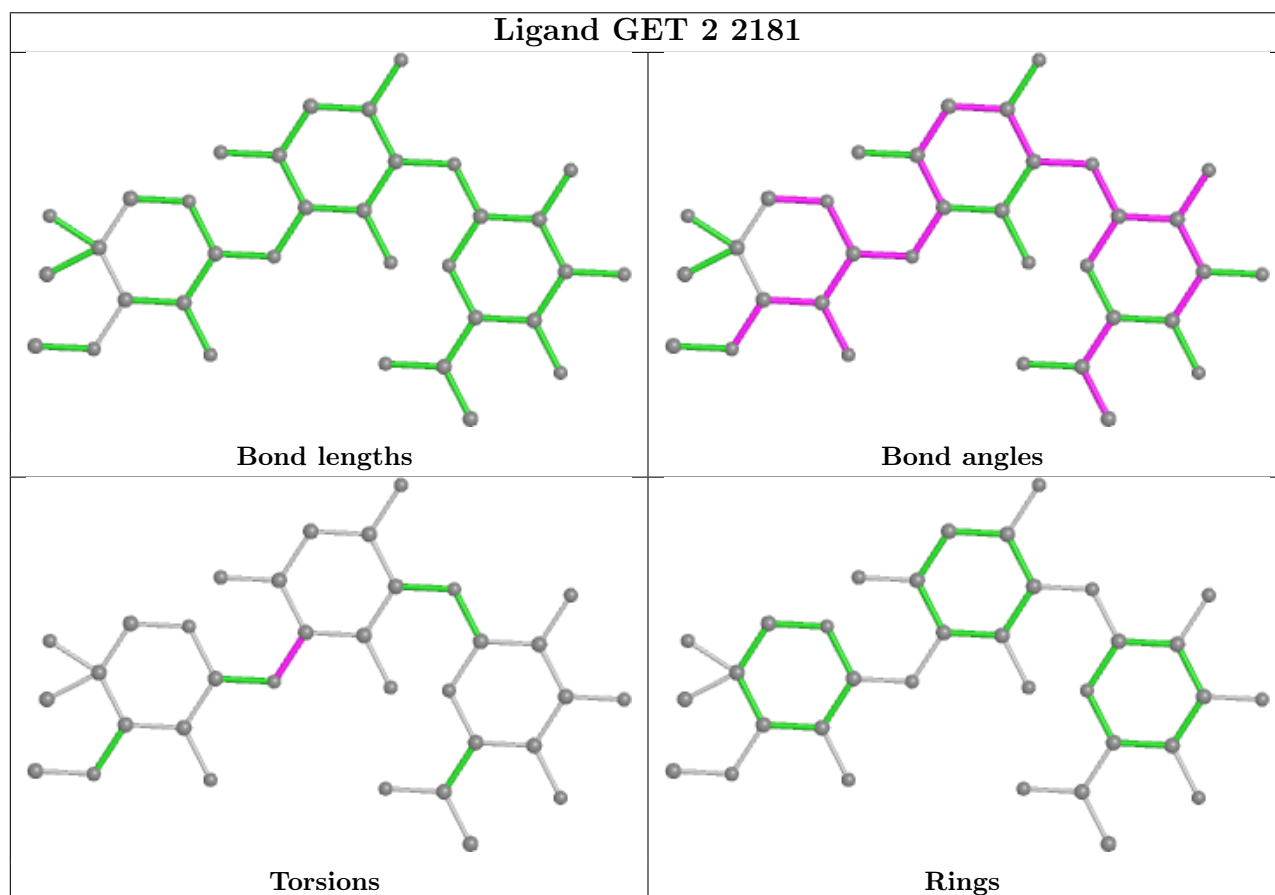
Mol	Chain	Res	Type	Atoms
88	2	2181	GET	C52-C62-O62-C13

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	1	4023	OHX	0	1

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.



## 6 Fit of model and data

### 6.1 Protein, DNA and RNA chains

EDS failed to run properly - this section is therefore empty.

### 6.2 Non-standard residues in protein, DNA, RNA chains

EDS failed to run properly - this section is therefore empty.

### 6.3 Carbohydrates

EDS failed to run properly - this section is therefore empty.

### 6.4 Ligands

EDS failed to run properly - this section is therefore empty.

### 6.5 Other polymers

EDS failed to run properly - this section is therefore empty.