Full wwPDB EM Validation Report ⓘ

May 5, 2024 – 07:20 PM EDT

PDB ID	:	4V6O
EMDB ID	:	EMD-5359
Title	:	Structural characterization of mRNA-tRNA translocation intermediates (class 4a of the six classes)
Authors	:	Agirrezabala, X.; Liao, H.; Schreiner, E.; Fu, J.; Ortiz-Meoz, R.F.; Schulten, K.; Green, R.; Frank, J.
Deposited on	:	2011-12-07
Resolution	:	14.70 Å(reported)
Based on initial model	:	2I2U

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

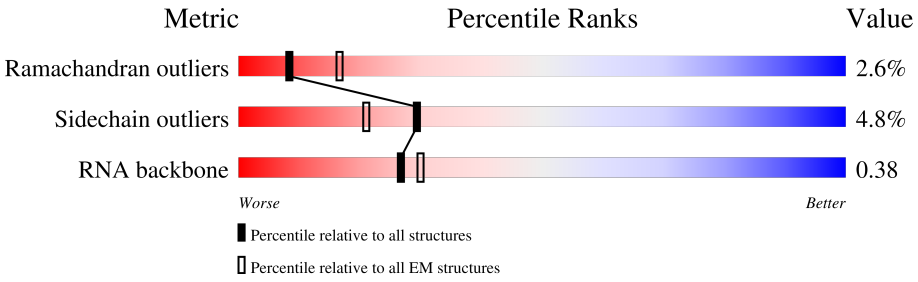
EMDB validation analysis	:	0.0.1.dev92
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

1 Overall quality at a glance

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

The reported resolution of this entry is 14.70 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826
RNA backbone	4643	859

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=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 <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	1542	34% 53% 13%
2	AB	76	36% 46% 18%
3	AC	47	11% 17% 49% 34%
4	AD	77	51% 36% 13%
5	AE	240	80% 17%
6	AF	232	77% 20%
7	AG	205	73% 23%
8	AH	166	85% 10%

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Mol	Chain	Length	Quality of chain
9	AI	135	70% 22% 7%
10	AJ	178	73% 25%
11	AK	129	74% 23%
12	AL	129	75% 22%
13	AM	103	70% 24% 6%
14	AN	128	74% 23%
15	AO	123	72% 26%
16	AP	117	81% 15%
17	AQ	100	75% 22%
18	AR	88	77% 23%
19	AS	82	77% 20%
20	AT	83	83% 14%
21	AU	74	59% 36%
22	AV	91	82% 11% 7%
23	AW	86	87% 12%
24	AX	70	71% 24%
25	BA	120	34% 52% 13%
26	BB	2904	34% 54% 13%
27	BC	234	9% 81% 17%
28	BD	272	75% 23%
29	BE	209	78% 17% 5%
30	BF	201	75% 21%
31	BG	178	71% 24% 6%
32	BH	176	75% 22%
33	BI	149	10% 79% 19%

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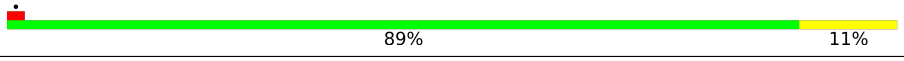
Mol	Chain	Length	Quality of chain
34	BJ	164	
35	BK	141	
36	BL	142	
37	BM	123	
38	BN	144	
39	BO	136	
40	BP	127	
41	BQ	117	
42	BR	114	
43	BS	117	
44	BT	103	
45	BU	110	
46	BV	100	
47	BW	103	
48	BX	94	
49	BY	84	
50	BZ	77	
51	B0	63	
52	B1	58	
53	B2	70	
54	B3	56	
55	B4	54	
56	B5	46	
57	B6	64	
58	B7	38	

2 Entry composition

There are 60 unique types of molecules in this entry. The entry contains 152351 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
1	AA	1542	33089	14767	6064	10717	1541	0	0

- Molecule 2 is a RNA chain called A site tRNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	N	O	P	S		
2	AB	76	1627	731	287	532	75	2	0	0

- Molecule 3 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
3	AC	47	993	445	167	335	46	0	0

- Molecule 4 is a RNA chain called P site tRNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	N	O	P	S		
4	AD	77	1641	734	297	533	76	1	0	0

- Molecule 5 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	AE	240	1872	1180	332	352	8	0	0

- Molecule 6 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	AF	232	1822	1149	346	323	4	0	0

- Molecule 7 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	AG	205	Total	C	N	O	S	0	0
			1643	1026	315	298	4		

- Molecule 8 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AH	166	Total	C	N	O	S	0	0
			1225	761	232	226	6		

- Molecule 9 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	AI	135	Total	C	N	O	S	0	0
			1101	677	198	219	7		

- Molecule 10 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	AJ	178	Total	C	N	O	S	0	0
			1400	874	269	253	4		

- Molecule 11 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	AK	129	Total	C	N	O	S	0	0
			979	616	173	184	6		

- Molecule 12 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	AL	129	Total	C	N	O	S	0	0
			1036	642	208	183	3		

- Molecule 13 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	AM	103	Total	C	N	O	S	0	0
			825	514	158	151	2		

- Molecule 14 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	AN	128	Total	C	N	O	S	0	0
			965	595	196	171	3		

- Molecule 15 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AO	123	Total	C	N	O	S	0	0
			955	590	196	165	4		

- Molecule 16 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AP	117	Total	C	N	O	S	0	0
			910	564	183	160	3		

- Molecule 17 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	AQ	100	Total	C	N	O	S	0	0
			805	499	164	139	3		

- Molecule 18 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	AR	88	Total	C	N	O	S	0	0
			716	440	146	129	1		

- Molecule 19 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	AS	82	Total	C	N	O	S	0	0
			649	406	128	114	1		

- Molecule 20 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	AT	83	Total	C	N	O	S	0	0
			672	425	124	120	3		

- Molecule 21 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	AU	74	Total	C	N	O	S	0	0
			626	395	123	107	1		

- Molecule 22 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	AV	91	Total	C	N	O	S	0	0
			727	464	139	122	2		

- Molecule 23 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	AW	86	Total	C	N	O	S	0	0
			670	414	138	115	3		

- Molecule 24 is a protein called 30S ribosomal protein S21.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	AX	70	Total	C	N	O	S	0	0
			590	366	125	98	1		

- Molecule 25 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	BA	120	Total	C	N	O	P	0	0
			2566	1144	468	835	119		

- Molecule 26 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	BB	2904	Total	C	N	O	P	0	0
			62351	27824	11469	20155	2903		

- Molecule 27 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	BC	234	Total	C	N	O	S	0	0
			1733	1081	315	330	7		

- Molecule 28 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	BD	272	Total	C	N	O	S	0	0
			2092	1294	425	366	7		

- Molecule 29 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	BE	209	Total	C	N	O	S	0	0
			1565	979	288	294	4		

- Molecule 30 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	BF	201	Total	C	N	O	S	0	0
			1552	974	283	290	5		

- Molecule 31 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	BG	178	Total	C	N	O	S	0	0
			1420	905	251	258	6		

- Molecule 32 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	BH	176	Total	C	N	O	S	0	0
			1323	832	243	246	2		

- Molecule 33 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	BI	149	Total	C	N	O	S	0	0
			1111	699	197	214	1		

- Molecule 34 is a protein called 50S ribosomal protein L10.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	BJ	164	Total	C	N	O	S	0	0
			1233	776	220	231	6		

- Molecule 35 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	BK	141	Total	C	N	O	S	0	0
			1032	651	179	196	6		

- Molecule 36 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	BL	142	Total	C	N	O	S	0	0
			1129	714	212	199	4		

- Molecule 37 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	BM	123	Total	C	N	O	S	0	0
			947	593	181	167	6		

- Molecule 38 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	BN	144	Total	C	N	O	S	0	0
			1053	654	207	190	2		

- Molecule 39 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	BO	136	Total	C	N	O	S	0	0
			1074	686	205	177	6		

- Molecule 40 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	BP	127	Total	C	N	O	S	0	0
			1008	621	204	178	5		

- Molecule 41 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	BQ	117	Total	C	N	O	S	0	0
			900	557	179	163	1		

- Molecule 42 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	BR	114	Total	C	N	O	S	0	0
			917	574	179	163	1		

- Molecule 43 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms				AltConf	Trace
43	BS	117	Total	C	N	O	0	0
			947	604	192	151		

- Molecule 44 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	BT	103	Total	C	N	O	S	0	0
			816	516	153	145	2		

- Molecule 45 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	BU	110	Total	C	N	O	S	0	0
			857	532	166	156	3		

- Molecule 46 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	BV	100	Total	C	N	O	S	0	0
			787	496	146	143	2		

- Molecule 47 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms				AltConf	Trace
47	BW	103	Total	C	N	O	0	0
			789	498	148	143		

- Molecule 48 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	BX	94	Total	C	N	O	S	0	0
			753	479	137	134	3		

- Molecule 49 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	BY	84	Total	C	N	O	S	0	0
			634	391	129	113	1		

- Molecule 50 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	BZ	77	Total	C	N	O	S	0	0
			625	388	129	106	2		

- Molecule 51 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	B0	63	Total	C	N	O	S	0	0
			509	313	99	95	2		

- Molecule 52 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	B1	58	Total	C	N	O	S	0	0
			449	281	87	79	2		

- Molecule 53 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	B2	70	Total	C	N	O	S	0	0
			549	339	104	100	6		

- Molecule 54 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	B3	56	Total	C	N	O	S	0	0
			444	269	94	80	1		

- Molecule 55 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms				AltConf	Trace
55	B4	54	Total	C	N	O	0	0
			441	284	81	76		

- Molecule 56 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	B5	46	Total	C	N	O	S	0	0
			377	228	90	57	2		

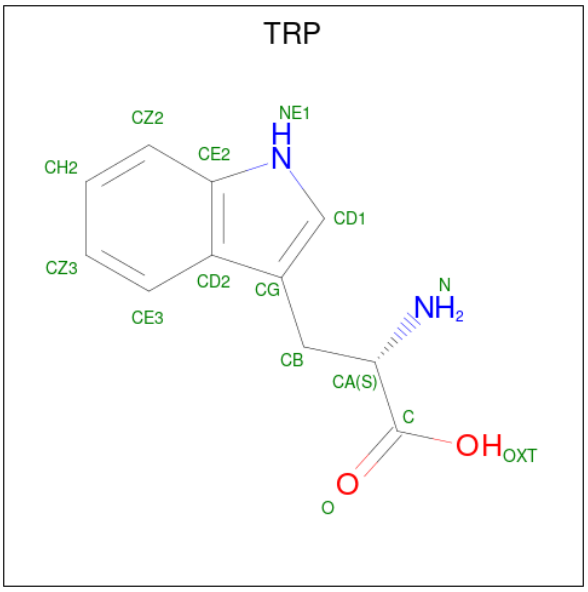
- Molecule 57 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	B6	64	Total	C	N	O	S	0	0
			504	323	105	74	2		

- Molecule 58 is a protein called 50S ribosomal protein L36.

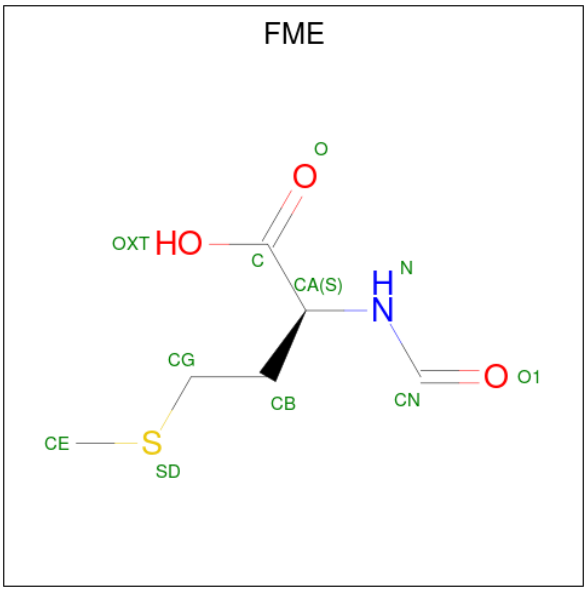
Mol	Chain	Residues	Atoms					AltConf	Trace
58	B7	38	Total	C	N	O	S	0	0
			302	185	65	48	4		

- Molecule 59 is TRYPTOPHAN (three-letter code: TRP) (formula: $C_{11}H_{12}N_2O_2$).



Mol	Chain	Residues	Atoms				AltConf
59	AB	1	Total	C	N	O	0
			14	11	2	1	

- Molecule 60 is N-FORMYLMETHIONINE (three-letter code: FME) (formula: $C_6H_{11}NO_3S$).



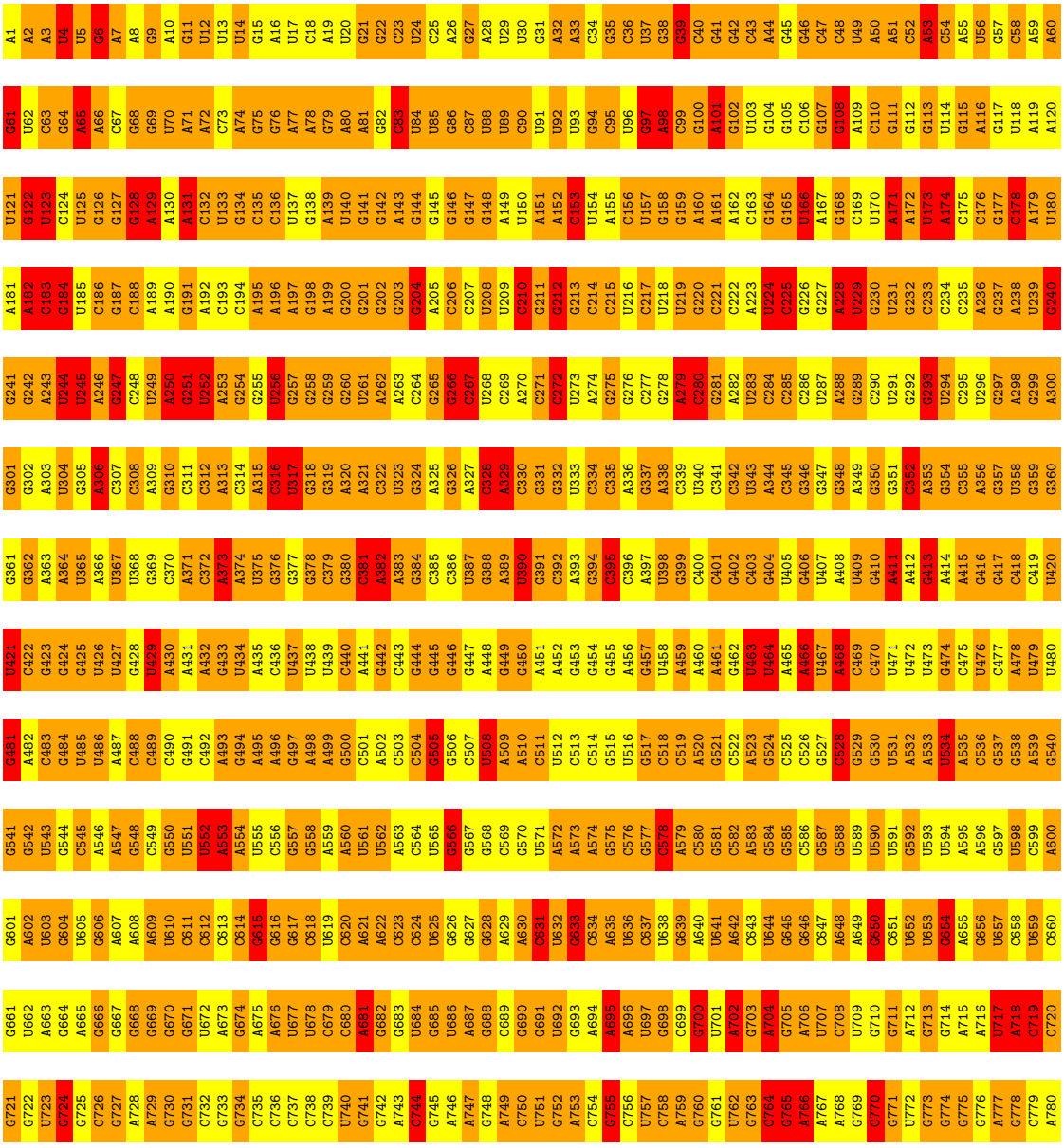
Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	S	
60	BB	1	10	6	1	2	1	0

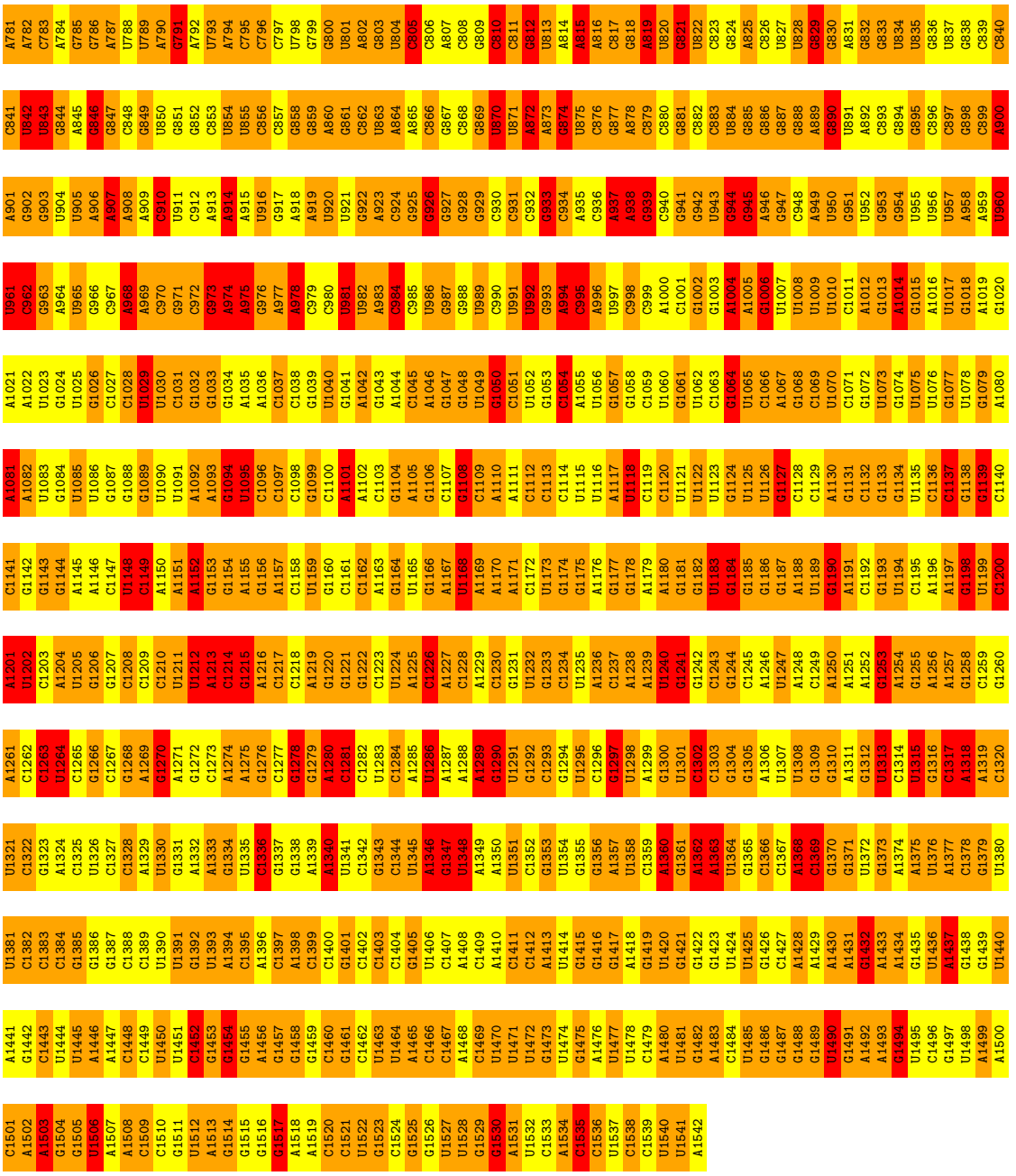
3 Residue-property plots (i)

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

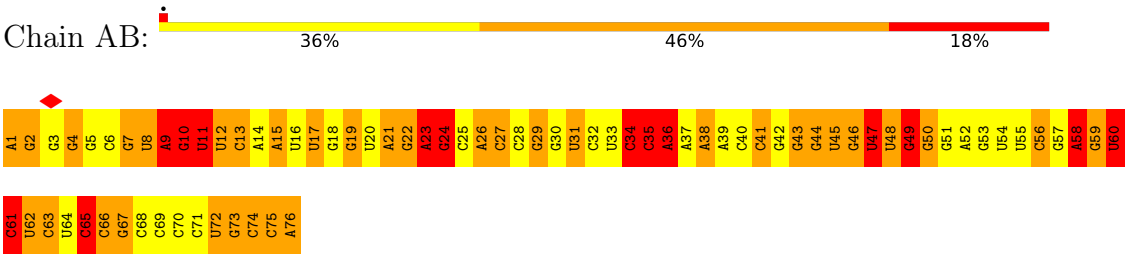
- Molecule 1: 16S ribosomal RNA

Chain AA:

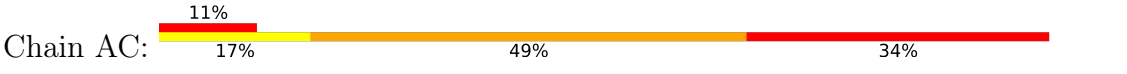


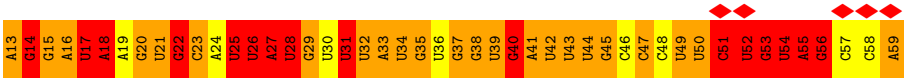


• Molecule 2: A site tRNA



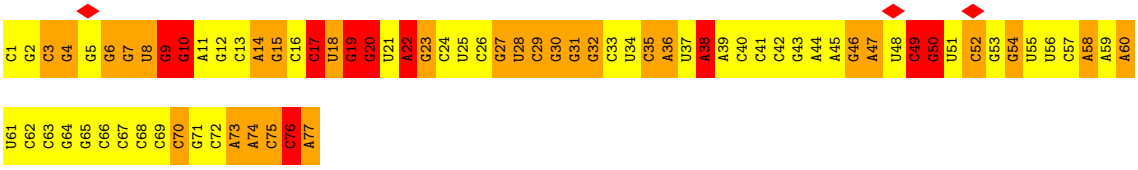
• Molecule 3: mRNA





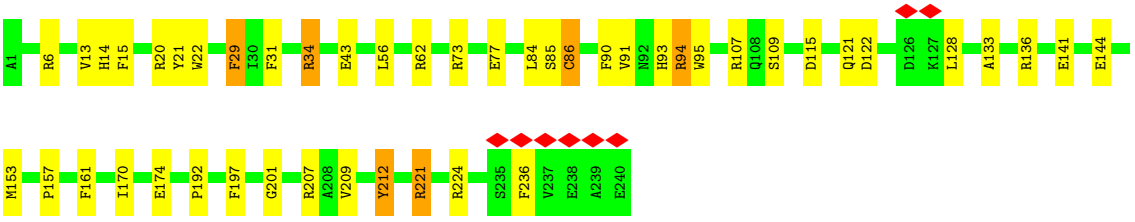
• Molecule 4: P site tRNA

Chain AD:



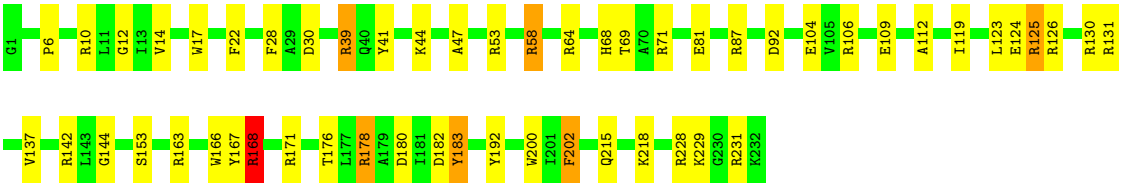
• Molecule 5: 30S ribosomal protein S2

Chain AE:



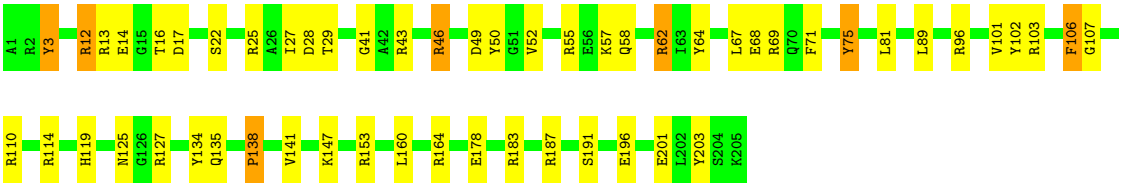
• Molecule 6: 30S ribosomal protein S3

Chain AF:



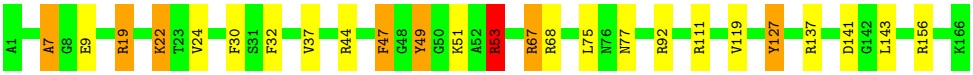
• Molecule 7: 30S ribosomal protein S4

Chain AG:



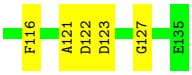
• Molecule 8: 30S ribosomal protein S5

Chain AH:



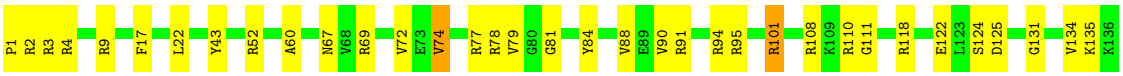
• Molecule 9: 30S ribosomal protein S6

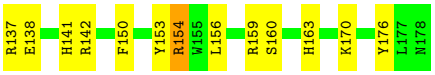
Chain AI:



• Molecule 10: 30S ribosomal protein S7

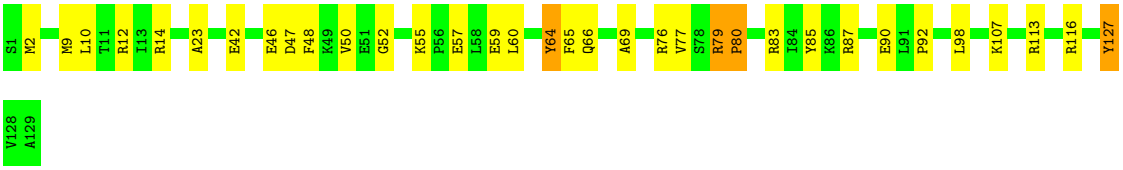
Chain AJ:





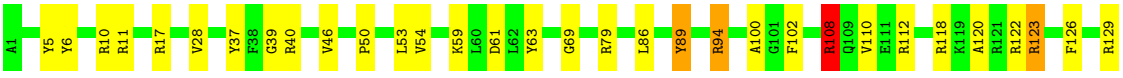
• Molecule 11: 30S ribosomal protein S8

Chain AK:



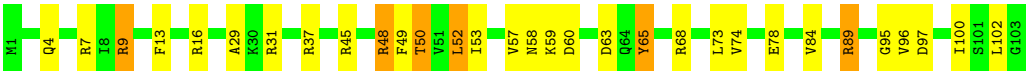
• Molecule 12: 30S ribosomal protein S9

Chain AL:



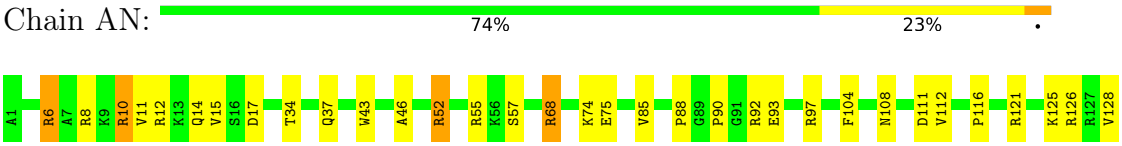
• Molecule 13: 30S ribosomal protein S10

Chain AM:



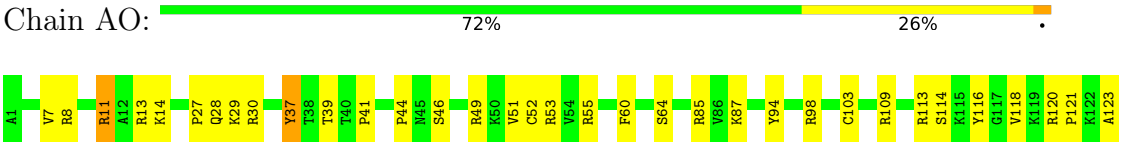
• Molecule 14: 30S ribosomal protein S11

Chain AN:



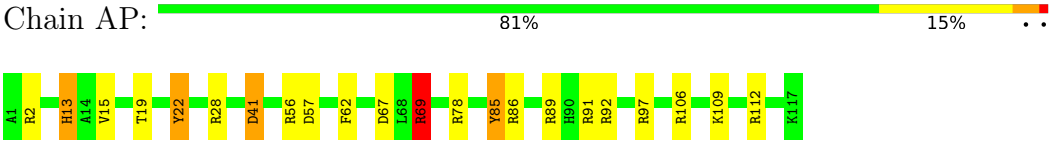
• Molecule 15: 30S ribosomal protein S12

Chain AO:



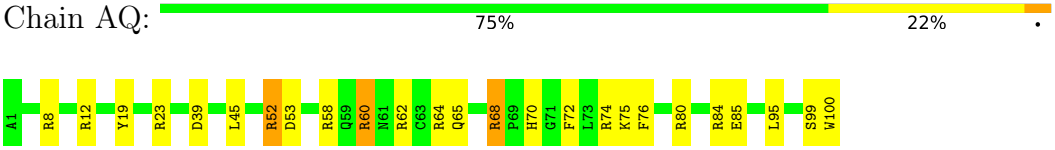
• Molecule 16: 30S ribosomal protein S13

Chain AP:



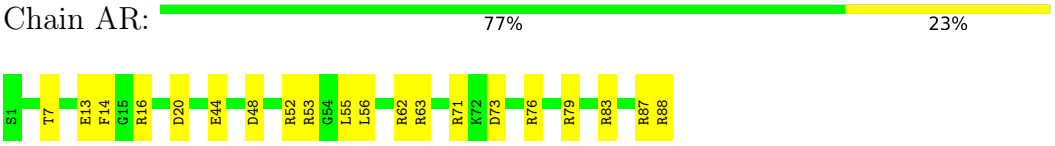
• Molecule 17: 30S ribosomal protein S14

Chain AQ:



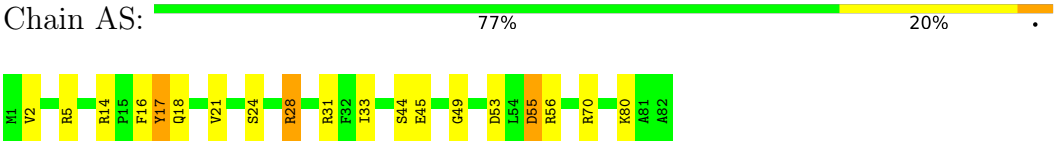
• Molecule 18: 30S ribosomal protein S15

Chain AR:



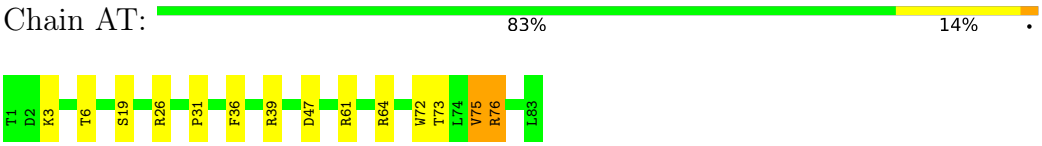
• Molecule 19: 30S ribosomal protein S16

Chain AS:



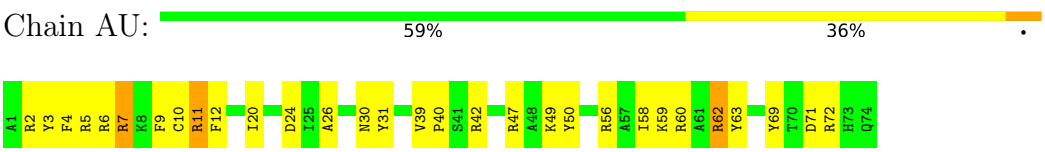
• Molecule 20: 30S ribosomal protein S17

Chain AT:



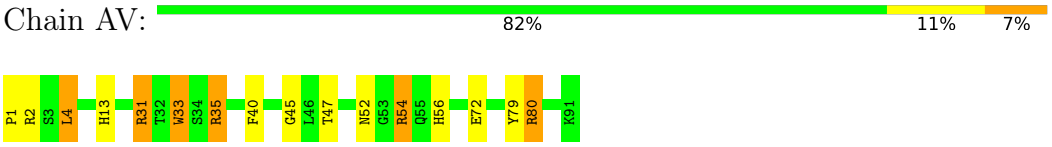
• Molecule 21: 30S ribosomal protein S18

Chain AU:



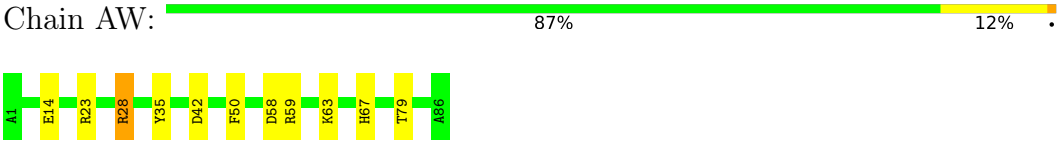
• Molecule 22: 30S ribosomal protein S19

Chain AV:



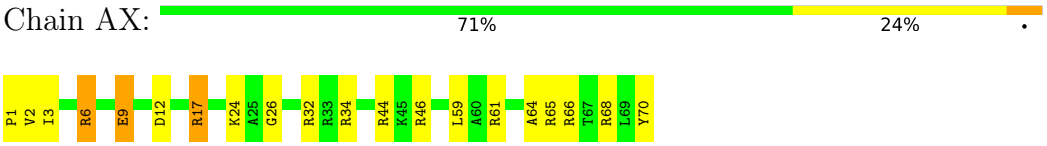
• Molecule 23: 30S ribosomal protein S20

Chain AW:



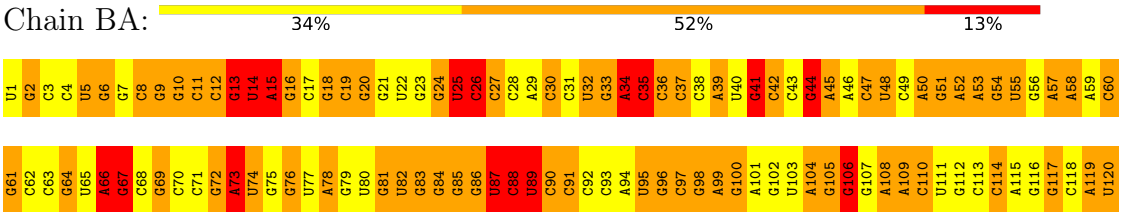
• Molecule 24: 30S ribosomal protein S21

Chain AX:



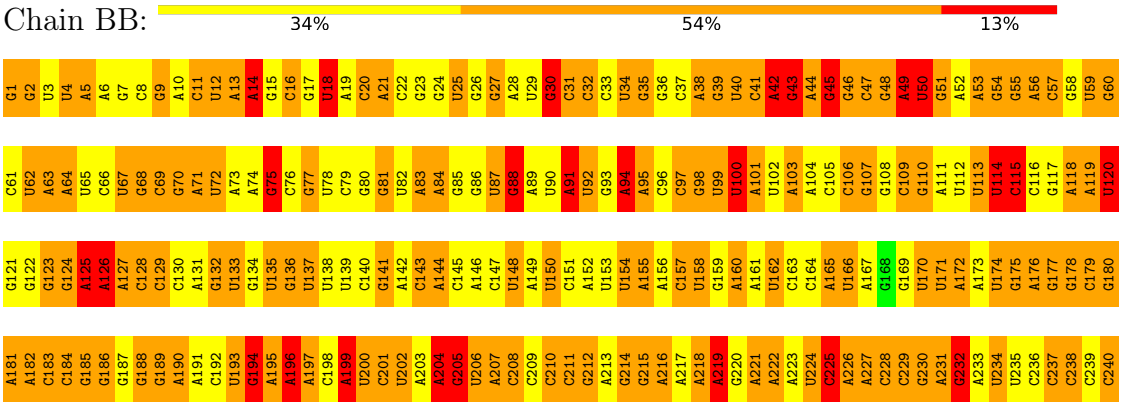
• Molecule 25: 5S ribosomal RNA

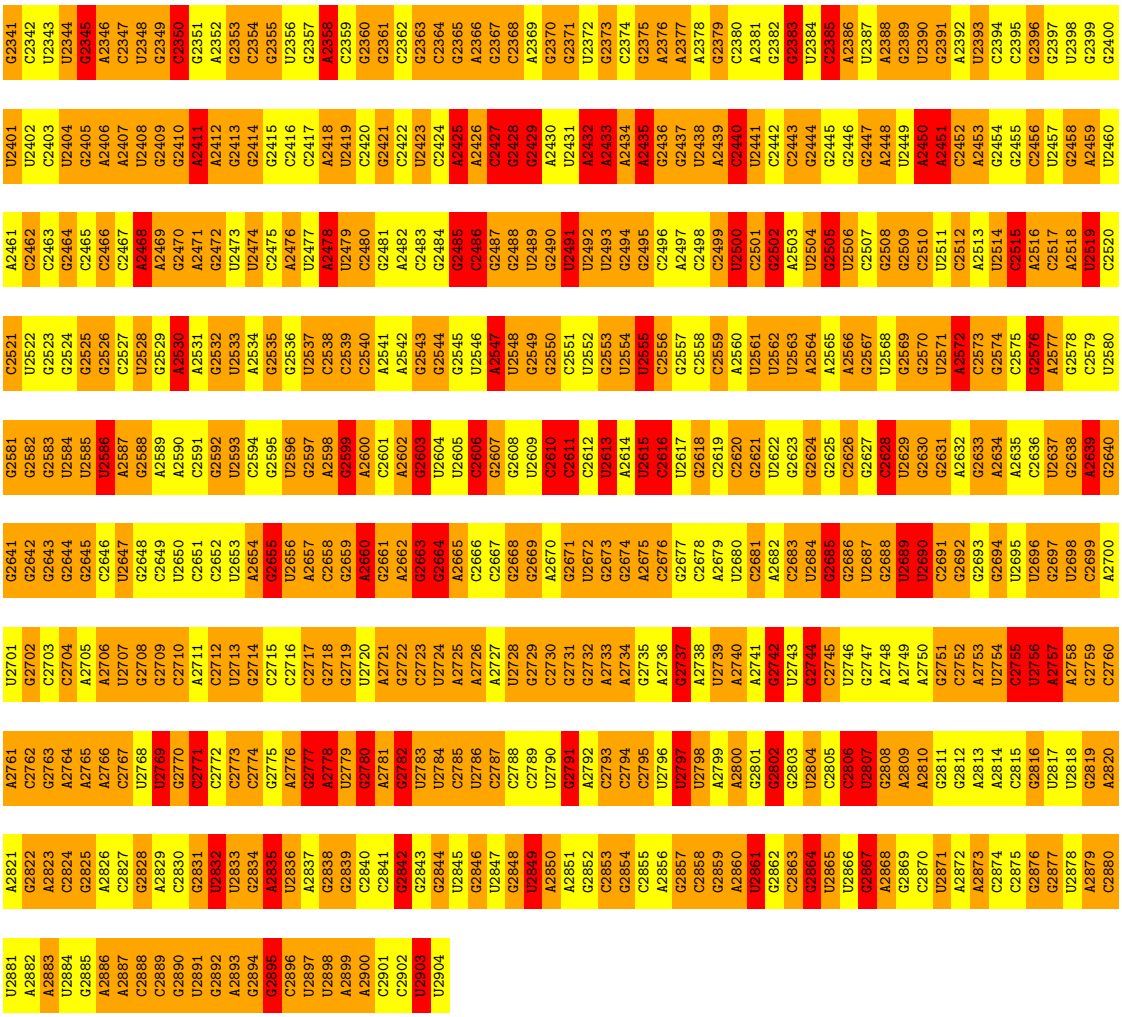
Chain BA:



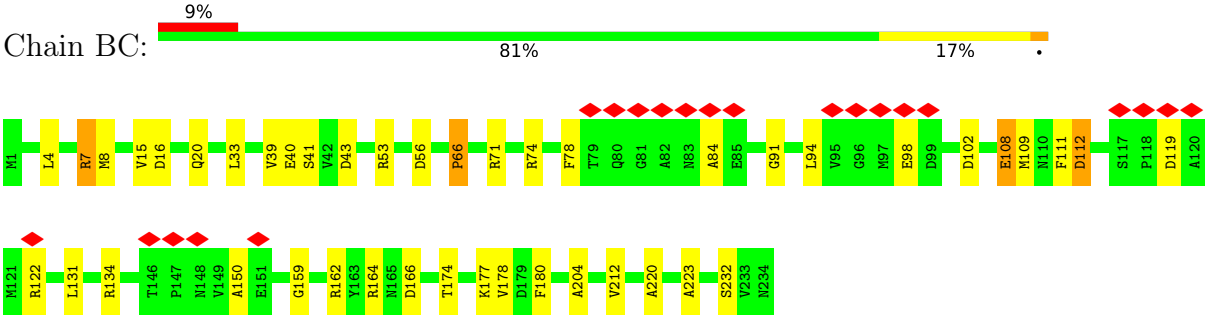
• Molecule 26: 23S ribosomal RNA

Chain BB:

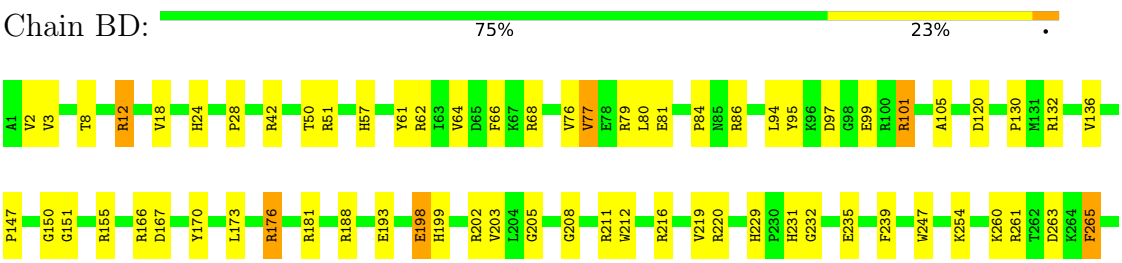




• Molecule 27: 50S ribosomal protein L1

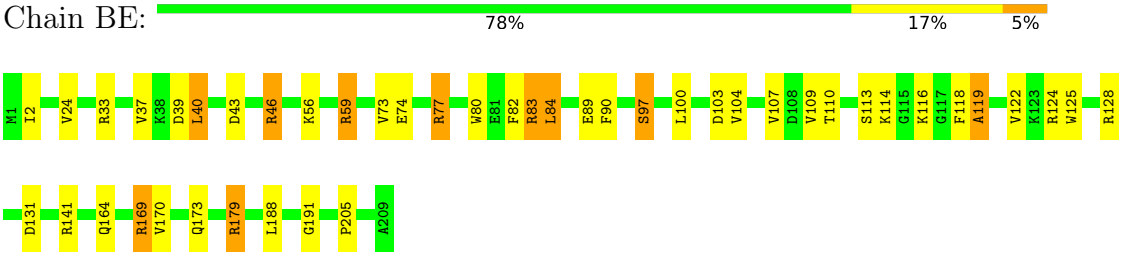


• Molecule 28: 50S ribosomal protein L2



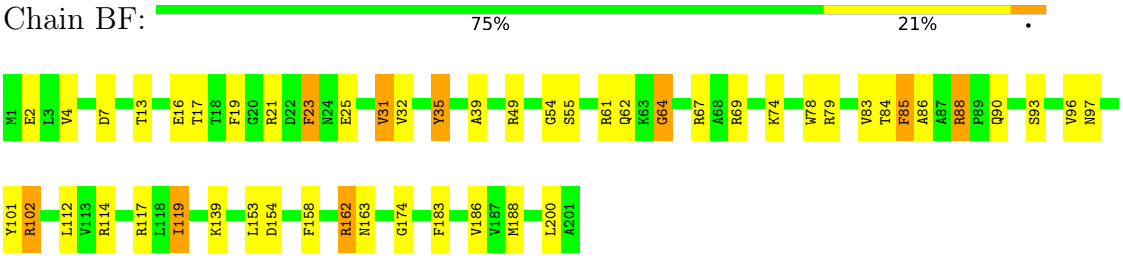
• Molecule 29: 50S ribosomal protein L3

Chain BE:



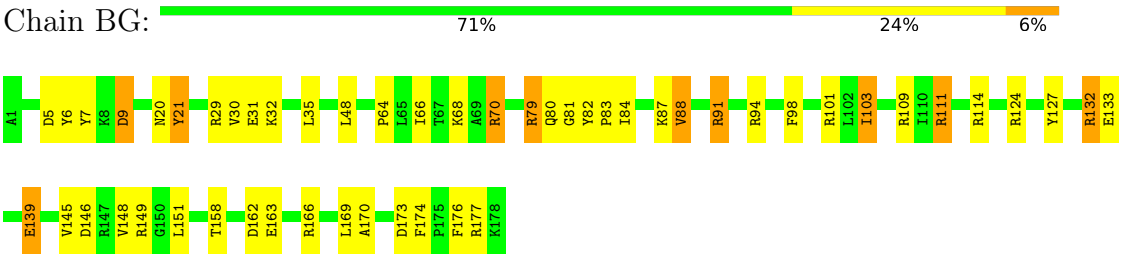
• Molecule 30: 50S ribosomal protein L4

Chain BF:



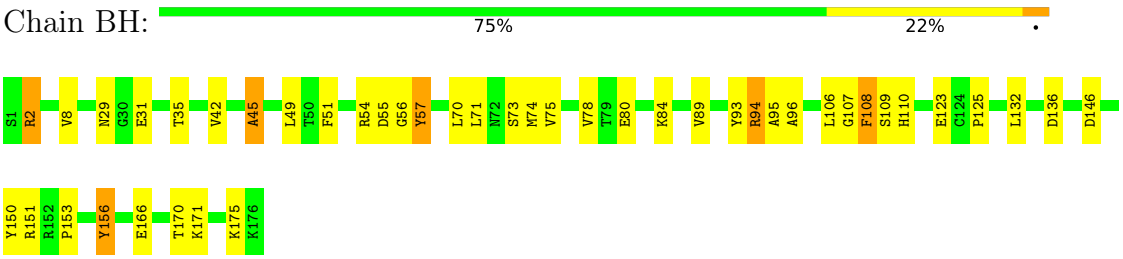
• Molecule 31: 50S ribosomal protein L5

Chain BG:



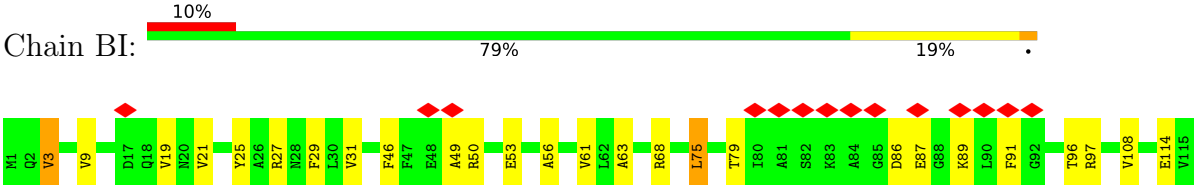
• Molecule 32: 50S ribosomal protein L6

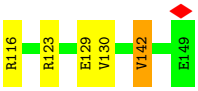
Chain BH:



• Molecule 33: 50S ribosomal protein L9

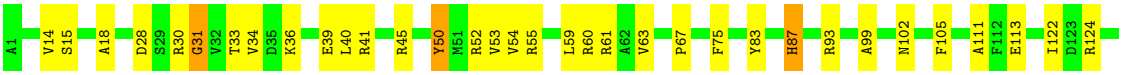
Chain BI:

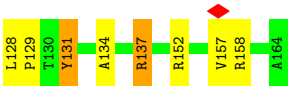




• Molecule 34: 50S ribosomal protein L10

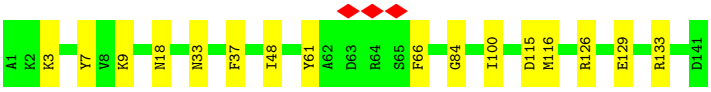
Chain BJ:





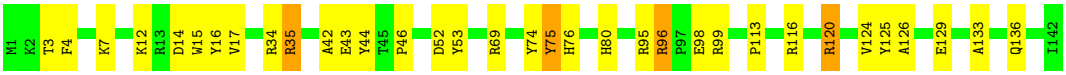
• Molecule 35: 50S ribosomal protein L11

Chain BK:



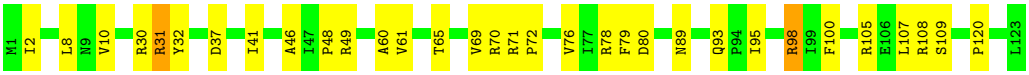
• Molecule 36: 50S ribosomal protein L13

Chain BL:



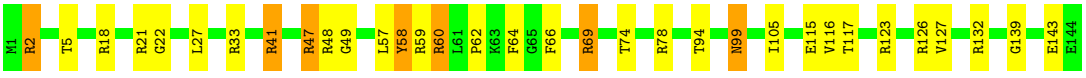
• Molecule 37: 50S ribosomal protein L14

Chain BM:



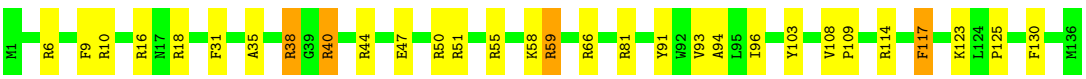
• Molecule 38: 50S ribosomal protein L15

Chain BN:



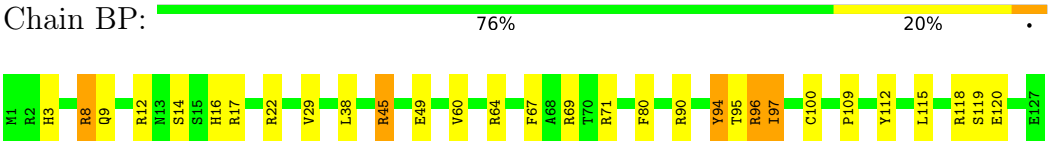
• Molecule 39: 50S ribosomal protein L16

Chain BO:



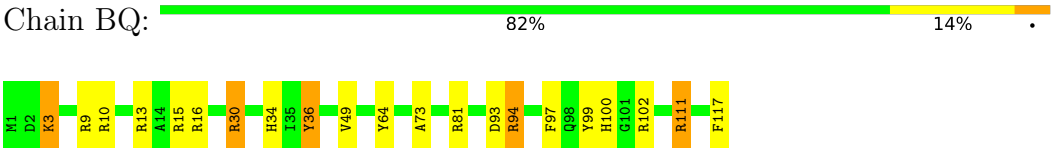
• Molecule 40: 50S ribosomal protein L17

Chain BP:



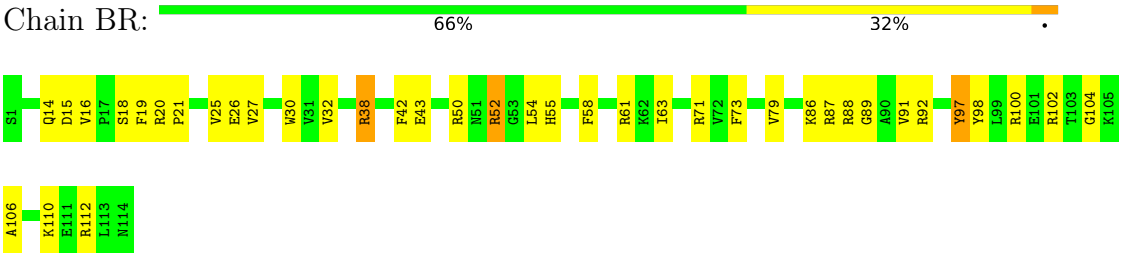
• Molecule 41: 50S ribosomal protein L18

Chain BQ:



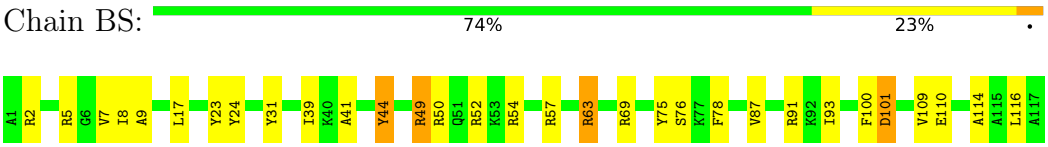
• Molecule 42: 50S ribosomal protein L19

Chain BR:



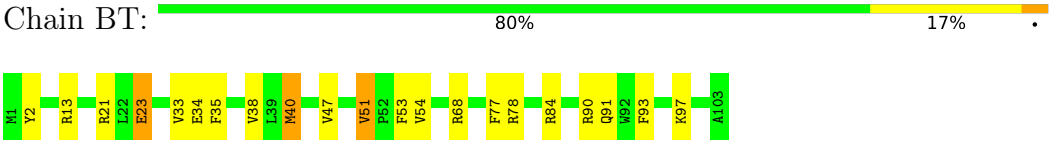
• Molecule 43: 50S ribosomal protein L20

Chain BS:



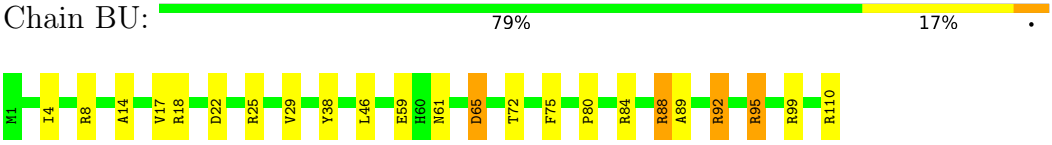
• Molecule 44: 50S ribosomal protein L21

Chain BT:



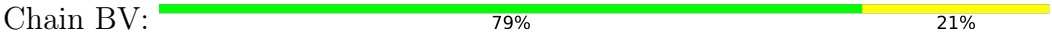
• Molecule 45: 50S ribosomal protein L22

Chain BU:



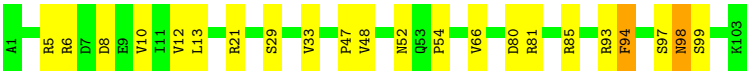
• Molecule 46: 50S ribosomal protein L23

Chain BV:



• Molecule 47: 50S ribosomal protein L24

Chain BW:



• Molecule 48: 50S ribosomal protein L25

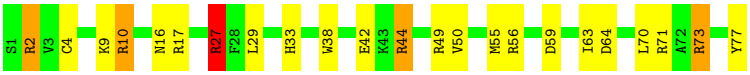
Chain BX:

• Molecule 49: 50S ribosomal protein L27

Chain BY:

• Molecule 50: 50S ribosomal protein L28

Chain BZ:

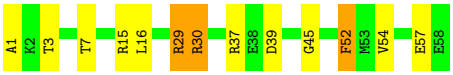


• Molecule 51: 50S ribosomal protein L29

Chain B0:

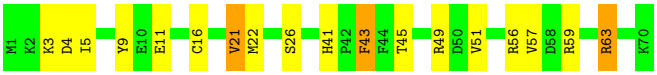
• Molecule 52: 50S ribosomal protein L30

Chain B1:



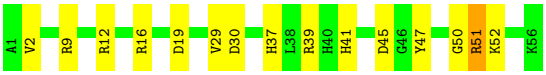
• Molecule 53: 50S ribosomal protein L31

Chain B2:



• Molecule 54: 50S ribosomal protein L32

Chain B3:

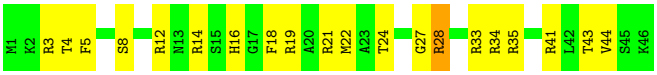


• Molecule 55: 50S ribosomal protein L33

Chain B4:

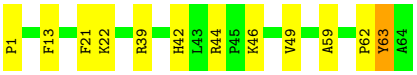
• Molecule 56: 50S ribosomal protein L34

Chain B5:



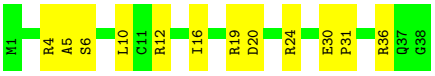
• Molecule 57: 50S ribosomal protein L35

Chain B6:



• Molecule 58: 50S ribosomal protein L36

Chain B7:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	21000	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Volumes were CTF-corrected in defocus groups	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	25	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	58269	Depositor
Image detector	TVIPS TEMCAM-F415 (4k x 4k)	Depositor
Maximum map value	1.422	Depositor
Minimum map value	-0.460	Depositor
Average map value	0.029	Depositor
Map value standard deviation	0.195	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	375.0, 375.0, 375.0	wwPDB
Map dimensions	250, 250, 250	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.5, 1.5, 1.5	Depositor

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: OMG, CH, 4SU, 5MU, UR3, OMU, 1MG, PSU, 5MC, OMC, H2U, 4OC, MIA, FME, 7MG, 6MZ, 2MA, MA6, 2MG, 3TD

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	AA	3.08	3882/36769 (10.6%)	3.52	8356/57354 (14.6%)
2	AB	3.05	161/1600 (10.1%)	3.56	386/2492 (15.5%)
3	AC	3.23	133/1108 (12.0%)	3.55	250/1724 (14.5%)
4	AD	3.02	174/1721 (10.1%)	3.61	441/2683 (16.4%)
5	AE	1.50	9/1904 (0.5%)	1.89	37/2565 (1.4%)
6	AF	1.54	11/1852 (0.6%)	2.09	63/2490 (2.5%)
7	AG	1.51	9/1665 (0.5%)	1.95	48/2227 (2.2%)
8	AH	1.48	1/1239 (0.1%)	1.94	30/1664 (1.8%)
9	AI	1.57	5/1121 (0.4%)	2.07	36/1509 (2.4%)
10	AJ	1.54	9/1422 (0.6%)	2.04	43/1908 (2.3%)
11	AK	1.56	5/989 (0.5%)	1.94	28/1326 (2.1%)
12	AL	1.54	2/1048 (0.2%)	2.06	39/1394 (2.8%)
13	AM	1.43	1/835 (0.1%)	2.03	27/1127 (2.4%)
14	AN	1.53	5/982 (0.5%)	1.98	26/1323 (2.0%)
15	AO	1.52	2/969 (0.2%)	2.34	41/1300 (3.2%)
16	AP	1.47	2/919 (0.2%)	2.23	25/1226 (2.0%)
17	AQ	1.48	1/817 (0.1%)	2.06	30/1088 (2.8%)
18	AR	1.52	0/724	2.00	27/966 (2.8%)
19	AS	1.54	4/659 (0.6%)	2.11	21/884 (2.4%)
20	AT	1.56	2/681 (0.3%)	1.87	11/913 (1.2%)
21	AU	1.61	2/637 (0.3%)	2.24	27/851 (3.2%)
22	AV	1.45	4/744 (0.5%)	1.88	16/995 (1.6%)
23	AW	1.41	2/676 (0.3%)	1.66	7/895 (0.8%)
24	AX	1.56	2/598 (0.3%)	2.09	22/792 (2.8%)
25	BA	3.06	310/2869 (10.8%)	3.49	627/4474 (14.0%)
26	BB	3.07	7266/69257 (10.5%)	3.53	15668/108040 (14.5%)
27	BC	1.46	6/1748 (0.3%)	1.80	32/2355 (1.4%)
28	BD	1.54	14/2131 (0.7%)	1.94	53/2863 (1.9%)
29	BE	1.53	3/1586 (0.2%)	1.90	32/2134 (1.5%)
30	BF	1.46	7/1571 (0.4%)	2.00	43/2113 (2.0%)
31	BG	1.53	5/1444 (0.3%)	1.95	36/1937 (1.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
32	BH	1.45	3/1343 (0.2%)	1.88	31/1816 (1.7%)
33	BI	1.49	0/1122	1.97	30/1515 (2.0%)
34	BJ	1.53	6/1247 (0.5%)	1.94	35/1679 (2.1%)
35	BK	1.44	1/1046 (0.1%)	1.79	14/1410 (1.0%)
36	BL	1.54	6/1152 (0.5%)	1.93	29/1551 (1.9%)
37	BM	1.48	4/956 (0.4%)	1.93	27/1279 (2.1%)
38	BN	1.58	5/1062 (0.5%)	2.01	28/1413 (2.0%)
39	BO	1.54	4/1093 (0.4%)	2.04	35/1460 (2.4%)
40	BP	1.51	4/1021 (0.4%)	1.90	23/1364 (1.7%)
41	BQ	1.55	4/910 (0.4%)	2.05	22/1219 (1.8%)
42	BR	1.55	3/929 (0.3%)	2.15	32/1242 (2.6%)
43	BS	1.53	5/960 (0.5%)	2.10	34/1278 (2.7%)
44	BT	1.56	3/829 (0.4%)	1.93	17/1107 (1.5%)
45	BU	1.40	1/864 (0.1%)	1.89	21/1156 (1.8%)
46	BV	1.55	3/794 (0.4%)	2.06	19/1060 (1.8%)
47	BW	1.51	4/797 (0.5%)	1.86	18/1062 (1.7%)
48	BX	1.49	4/766 (0.5%)	1.82	17/1025 (1.7%)
49	BY	1.54	3/642 (0.5%)	1.90	17/848 (2.0%)
50	BZ	1.49	0/635	2.10	24/848 (2.8%)
51	B0	1.49	1/510 (0.2%)	1.95	10/677 (1.5%)
52	B1	1.46	3/453 (0.7%)	1.77	12/605 (2.0%)
53	B2	1.56	4/559 (0.7%)	1.96	10/745 (1.3%)
54	B3	1.53	2/450 (0.4%)	2.12	19/599 (3.2%)
55	B4	1.49	1/448 (0.2%)	1.90	7/594 (1.2%)
56	B5	1.52	1/380 (0.3%)	2.36	24/498 (4.8%)
57	B6	1.52	3/513 (0.6%)	1.68	6/676 (0.9%)
58	B7	1.41	2/303 (0.7%)	2.14	10/397 (2.5%)
All	All	2.69	12119/164069 (7.4%)	3.18	27099/244735 (11.1%)

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
1	AA	0	888
2	AB	0	39
3	AC	0	23
4	AD	0	34
5	AE	0	6
6	AF	0	8
7	AG	0	11

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Mol	Chain	#Chirality outliers	#Planarity outliers
8	AH	0	5
9	AI	0	11
10	AJ	0	6
11	AK	0	3
12	AL	0	5
13	AM	0	4
14	AN	0	5
15	AO	0	2
16	AP	0	3
17	AQ	0	1
19	AS	0	3
20	AT	0	1
21	AU	0	6
23	AW	0	2
24	AX	0	1
25	BA	0	71
26	BB	0	1680
27	BC	0	4
28	BD	0	11
29	BE	0	7
30	BF	0	6
31	BG	0	8
32	BH	0	3
34	BJ	0	6
36	BL	0	6
37	BM	0	3
38	BN	0	3
39	BO	0	2
40	BP	0	6
41	BQ	0	4
42	BR	0	4
43	BS	0	5
44	BT	0	1
45	BU	0	3
47	BW	0	2
48	BX	0	3
49	BY	0	5
50	BZ	0	4
51	B0	0	2
52	B1	0	2
53	B2	0	1
55	B4	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
56	B5	0	1
57	B6	0	3
58	B7	0	1
All	All	0	2927

All (12119) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1076	U	C2-N3	18.65	1.50	1.37
26	BB	757	G	P-O5'	16.91	1.76	1.59
25	BA	50	A	N7-C5	16.16	1.49	1.39
26	BB	2569	G	P-O5'	16.09	1.75	1.59
26	BB	1039	A	N7-C5	-15.99	1.29	1.39
26	BB	2611	C	N1-C6	15.92	1.46	1.37
1	AA	911	U	C2-N3	15.66	1.48	1.37
1	AA	1466	C	P-O5'	15.52	1.75	1.59
26	BB	1746	A	N3-C4	15.26	1.44	1.34
1	AA	1446	A	N3-C4	15.20	1.44	1.34
26	BB	2527	C	N1-C6	15.20	1.46	1.37
26	BB	2867	G	N3-C4	15.07	1.46	1.35
26	BB	2785	C	N1-C6	14.76	1.46	1.37
26	BB	2397	G	N7-C5	14.76	1.48	1.39
26	BB	785	G	P-O5'	14.73	1.74	1.59
1	AA	698	G	N7-C5	-14.65	1.30	1.39
26	BB	6	A	N9-C4	14.62	1.46	1.37
1	AA	395	C	P-O5'	14.55	1.74	1.59
1	AA	1219	A	N7-C5	-14.44	1.30	1.39
26	BB	511	U	C2-N3	14.41	1.47	1.37
26	BB	2700	A	N3-C4	14.36	1.43	1.34
26	BB	1691	C	N1-C6	14.35	1.45	1.37
1	AA	970	C	N1-C6	14.24	1.45	1.37
26	BB	235	U	C2-N3	14.20	1.47	1.37
26	BB	980	A	N7-C5	-14.14	1.30	1.39
1	AA	572	A	N3-C4	14.10	1.43	1.34
26	BB	1167	C	N1-C6	14.05	1.45	1.37
26	BB	428	A	N3-C4	14.03	1.43	1.34
1	AA	320	A	N3-C4	14.02	1.43	1.34
26	BB	472	A	N3-C4	13.86	1.43	1.34
1	AA	949	A	N9-C4	13.70	1.46	1.37
26	BB	637	A	N9-C4	-13.65	1.29	1.37
1	AA	1236	A	N3-C4	13.63	1.43	1.34
1	AA	1068	G	N7-C5	-13.56	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1133	A	N3-C4	13.50	1.43	1.34
1	AA	506	G	N7-C5	13.47	1.47	1.39
1	AA	600	A	N9-C4	13.45	1.46	1.37
4	AD	12	G	N3-C4	13.40	1.44	1.35
26	BB	1182	G	C8-N7	-13.38	1.23	1.30
26	BB	1280	G	C6-N1	13.38	1.49	1.39
26	BB	2322	A	P-O5'	13.35	1.73	1.59
26	BB	2302	U	P-O5'	13.33	1.73	1.59
26	BB	1151	A	P-O5'	13.18	1.73	1.59
26	BB	1558	C	P-O5'	13.18	1.73	1.59
26	BB	1376	C	P-O5'	13.15	1.73	1.59
26	BB	2408	U	P-O5'	13.15	1.73	1.59
26	BB	800	A	P-O5'	13.13	1.72	1.59
26	BB	1654	A	N3-C4	13.11	1.42	1.34
26	BB	2593	U	C2-N3	13.10	1.47	1.37
2	AB	27	C	N1-C6	13.07	1.45	1.37
26	BB	579	G	N3-C4	13.06	1.44	1.35
26	BB	798	G	P-O5'	13.04	1.72	1.59
26	BB	826	U	C2-N3	13.04	1.46	1.37
1	AA	1204	A	N3-C4	13.02	1.42	1.34
1	AA	676	A	N9-C4	13.01	1.45	1.37
26	BB	2751	G	P-O5'	13.01	1.72	1.59
1	AA	842	U	C4-C5	13.00	1.55	1.43
26	BB	109	C	N1-C6	12.99	1.45	1.37
26	BB	2700	A	N7-C5	12.99	1.47	1.39
26	BB	357	C	N1-C6	12.96	1.45	1.37
1	AA	303	A	P-O5'	12.91	1.72	1.59
26	BB	2276	G	C6-N1	12.89	1.48	1.39
1	AA	1368	A	P-O5'	12.89	1.72	1.59
26	BB	822	G	P-O5'	12.88	1.72	1.59
26	BB	643	A	N7-C5	12.84	1.47	1.39
1	AA	366	A	N9-C4	-12.83	1.30	1.37
1	AA	1081	A	N3-C4	12.83	1.42	1.34
26	BB	2758	A	P-O5'	12.83	1.72	1.59
1	AA	124	C	N3-C4	12.80	1.43	1.33
1	AA	866	C	N1-C6	12.78	1.44	1.37
26	BB	1614	A	O3'-P	12.75	1.76	1.61
26	BB	2708	G	P-O5'	12.73	1.72	1.59
2	AB	68	C	N1-C6	12.71	1.44	1.37
26	BB	14	A	N9-C4	-12.64	1.30	1.37
1	AA	49	U	P-O5'	12.63	1.72	1.59
1	AA	719	C	C4-C5	12.63	1.53	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	732	C	N1-C6	12.56	1.44	1.37
26	BB	1387	A	N3-C4	12.55	1.42	1.34
26	BB	1641	A	C5'-C4'	12.48	1.66	1.51
1	AA	134	G	P-O5'	12.47	1.72	1.59
26	BB	2388	A	N3-C4	-12.46	1.27	1.34
26	BB	1912	A	N3-C4	12.38	1.42	1.34
1	AA	1260	G	C5-C4	12.32	1.47	1.38
25	BA	12	C	C4-C5	12.29	1.52	1.43
26	BB	251	A	C8-N7	-12.23	1.23	1.31
1	AA	305	G	C6-N1	12.23	1.48	1.39
26	BB	1722	A	N9-C4	12.21	1.45	1.37
1	AA	86	G	N7-C5	12.20	1.46	1.39
1	AA	66	A	N3-C4	12.19	1.42	1.34
26	BB	1543	G	N3-C4	12.16	1.44	1.35
1	AA	1412	C	N3-C4	12.14	1.42	1.33
26	BB	321	U	P-O5'	12.14	1.71	1.59
26	BB	589	U	C2-N3	12.11	1.46	1.37
1	AA	1350	A	N3-C4	12.10	1.42	1.34
1	AA	1394	A	N3-C4	12.09	1.42	1.34
26	BB	1070	A	N7-C5	12.09	1.46	1.39
26	BB	1890	A	N3-C4	12.08	1.42	1.34
26	BB	317	G	N1-C2	12.07	1.47	1.37
26	BB	2274	A	N3-C4	12.06	1.42	1.34
26	BB	2709	G	C8-N7	-12.05	1.23	1.30
26	BB	569	U	N1-C2	12.05	1.49	1.38
26	BB	2126	A	N7-C5	-12.02	1.32	1.39
1	AA	535	A	N3-C4	12.01	1.42	1.34
1	AA	1517	G	P-O5'	12.01	1.71	1.59
26	BB	896	A	N3-C4	12.01	1.42	1.34
26	BB	2082	A	N3-C4	11.99	1.42	1.34
26	BB	2882	A	N9-C4	11.99	1.45	1.37
26	BB	995	C	C5-C6	11.97	1.44	1.34
26	BB	30	G	N7-C5	11.97	1.46	1.39
1	AA	1201	A	N3-C4	11.97	1.42	1.34
26	BB	2112	G	N7-C5	11.94	1.46	1.39
1	AA	1420	U	C2-N3	11.93	1.46	1.37
1	AA	313	A	C2'-C1'	-11.92	1.40	1.53
26	BB	112	U	P-O5'	11.92	1.71	1.59
1	AA	1094	G	N3-C4	11.91	1.43	1.35
26	BB	1134	A	N3-C4	11.91	1.42	1.34
26	BB	2616	C	N1-C6	11.89	1.44	1.37
26	BB	348	A	N3-C4	11.88	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	28	A	N3-C4	11.88	1.42	1.34
1	AA	1443	C	C4-C5	11.84	1.52	1.43
1	AA	961	U	P-O5'	11.83	1.71	1.59
26	BB	711	G	N7-C5	11.82	1.46	1.39
26	BB	1868	C	N3-C4	11.82	1.42	1.33
26	BB	210	C	C4-C5	11.80	1.52	1.43
1	AA	1275	A	N3-C4	11.80	1.42	1.34
26	BB	313	G	N9-C8	11.80	1.46	1.37
26	BB	1022	G	P-O5'	11.80	1.71	1.59
26	BB	830	G	N3-C4	11.78	1.43	1.35
26	BB	330	A	N7-C5	11.77	1.46	1.39
1	AA	1183	U	P-O5'	11.75	1.71	1.59
26	BB	1410	G	P-O5'	11.74	1.71	1.59
26	BB	1195	G	C2-N3	11.74	1.42	1.32
26	BB	1474	U	C2-N3	11.71	1.46	1.37
26	BB	2310	C	P-O5'	11.71	1.71	1.59
26	BB	2613	U	P-O5'	11.71	1.71	1.59
1	AA	370	C	C2-N3	11.70	1.45	1.35
26	BB	1699	G	C8-N7	-11.69	1.24	1.30
26	BB	1512	C	N1-C6	11.66	1.44	1.37
26	BB	2572	A	N9-C4	11.66	1.44	1.37
26	BB	1292	G	P-O5'	11.65	1.71	1.59
26	BB	1195	G	N3-C4	11.64	1.43	1.35
26	BB	1275	A	N7-C5	-11.64	1.32	1.39
1	AA	250	A	N3-C4	11.64	1.41	1.34
1	AA	583	A	P-O5'	11.63	1.71	1.59
1	AA	313	A	N3-C4	11.62	1.41	1.34
26	BB	2827	C	N1-C6	11.62	1.44	1.37
1	AA	548	G	C6-N1	11.61	1.47	1.39
26	BB	2786	U	C2-N3	11.60	1.45	1.37
26	BB	142	A	N3-C4	11.59	1.41	1.34
26	BB	1496	A	N7-C5	11.58	1.46	1.39
26	BB	1630	A	C5-C4	-11.58	1.30	1.38
26	BB	1151	A	N9-C4	11.55	1.44	1.37
26	BB	1550	C	C4-C5	11.55	1.52	1.43
26	BB	1812	U	P-O5'	11.54	1.71	1.59
26	BB	2021	C	C2-N3	11.54	1.45	1.35
3	AC	37	G	C6-N1	11.52	1.47	1.39
26	BB	2331	G	N7-C5	11.52	1.46	1.39
26	BB	2773	C	N1-C6	11.52	1.44	1.37
26	BB	2042	A	P-O5'	11.51	1.71	1.59
1	AA	765	G	C8-N7	11.50	1.37	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1846	G	P-O5'	11.50	1.71	1.59
26	BB	2834	G	N3-C4	11.50	1.43	1.35
1	AA	710	G	O3'-P	11.48	1.75	1.61
3	AC	19	A	C6-N6	-11.48	1.24	1.33
26	BB	2860	A	P-O5'	11.46	1.71	1.59
26	BB	2475	C	N1-C6	11.46	1.44	1.37
26	BB	1762	A	N3-C4	11.45	1.41	1.34
26	BB	1808	A	P-O5'	11.45	1.71	1.59
26	BB	574	A	P-O5'	11.45	1.71	1.59
26	BB	944	C	N1-C6	11.44	1.44	1.37
26	BB	271	G	C8-N7	11.42	1.37	1.30
26	BB	2086	U	C4-C5	11.42	1.53	1.43
26	BB	124	G	P-O5'	11.41	1.71	1.59
26	BB	1655	A	N3-C4	11.40	1.41	1.34
1	AA	793	U	N1-C2	11.39	1.48	1.38
26	BB	743	A	N9-C4	-11.39	1.31	1.37
1	AA	439	U	C2-N3	11.37	1.45	1.37
26	BB	198	C	N3-C4	11.37	1.42	1.33
2	AB	40	C	C4-C5	11.34	1.52	1.43
1	AA	738	C	N1-C6	11.33	1.44	1.37
1	AA	1417	G	P-O5'	11.28	1.71	1.59
26	BB	2280	G	N7-C5	11.27	1.46	1.39
26	BB	2455	G	P-O5'	11.26	1.71	1.59
26	BB	1981	A	N9-C4	11.26	1.44	1.37
1	AA	1360	A	O3'-P	11.25	1.74	1.61
1	AA	444	G	P-O5'	11.25	1.71	1.59
1	AA	453	G	C2-N3	11.24	1.41	1.32
1	AA	651	C	P-O5'	11.24	1.71	1.59
1	AA	6	G	C2-N3	11.24	1.41	1.32
1	AA	698	G	N3-C4	11.24	1.43	1.35
26	BB	1326	U	C2-N3	11.23	1.45	1.37
26	BB	2584	U	C2-N3	11.21	1.45	1.37
1	AA	1520	C	N3-C4	11.21	1.41	1.33
26	BB	1160	G	P-O5'	11.21	1.71	1.59
26	BB	1423	G	C8-N7	11.21	1.37	1.30
26	BB	481	G	P-O5'	11.17	1.71	1.59
26	BB	230	G	P-O5'	11.15	1.71	1.59
26	BB	380	G	N3-C4	11.15	1.43	1.35
26	BB	52	A	N7-C5	-11.14	1.32	1.39
26	BB	2564	A	C5-C4	-11.14	1.30	1.38
26	BB	2754	U	C2-N3	11.13	1.45	1.37
25	BA	102	G	N3-C4	11.13	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	918	A	P-O5'	11.13	1.70	1.59
1	AA	1236	A	C5'-C4'	11.12	1.64	1.51
26	BB	2079	U	C4'-O4'	-11.11	1.31	1.45
26	BB	584	C	P-O5'	11.10	1.70	1.59
26	BB	2496	C	C2-N3	11.10	1.44	1.35
26	BB	2729	G	C6-N1	11.10	1.47	1.39
26	BB	2525	G	C8-N7	11.10	1.37	1.30
4	AD	74	A	C8-N7	-11.09	1.23	1.31
26	BB	1546	G	N7-C5	11.09	1.46	1.39
1	AA	1007	U	N1-C6	11.08	1.48	1.38
1	AA	850	U	P-O5'	11.07	1.70	1.59
26	BB	762	U	C4-C5	11.04	1.53	1.43
25	BA	67	G	P-O5'	11.03	1.70	1.59
1	AA	707	U	C2-N3	11.03	1.45	1.37
1	AA	576	C	N3-C4	11.02	1.41	1.33
26	BB	113	U	N3-C4	11.02	1.48	1.38
26	BB	1444	G	C2-N3	11.01	1.41	1.32
26	BB	880	G	O3'-P	10.99	1.74	1.61
1	AA	1476	A	N7-C5	10.98	1.45	1.39
26	BB	1352	U	P-O5'	10.98	1.70	1.59
26	BB	1149	G	C6-N1	10.97	1.47	1.39
1	AA	272	C	N1-C6	10.96	1.43	1.37
26	BB	2751	G	N3-C4	10.96	1.43	1.35
1	AA	382	A	N7-C5	-10.95	1.32	1.39
1	AA	665	A	N7-C5	10.94	1.45	1.39
26	BB	1651	G	P-O5'	10.94	1.70	1.59
25	BA	64	G	P-O5'	10.93	1.70	1.59
26	BB	944	C	P-O5'	10.93	1.70	1.59
1	AA	84	U	C2-N3	10.93	1.45	1.37
1	AA	852	G	N7-C5	10.93	1.45	1.39
1	AA	461	A	N9-C4	10.92	1.44	1.37
26	BB	186	G	N1-C2	10.92	1.46	1.37
26	BB	1262	A	P-O5'	10.92	1.70	1.59
26	BB	2540	C	C2-N3	10.92	1.44	1.35
1	AA	1066	C	N1-C6	10.91	1.43	1.37
1	AA	1353	G	P-O5'	10.91	1.70	1.59
25	BA	75	G	N3-C4	10.91	1.43	1.35
26	BB	257	C	P-O5'	10.90	1.70	1.59
26	BB	1180	U	C2-N3	10.89	1.45	1.37
1	AA	996	A	C6-N1	10.89	1.43	1.35
25	BA	108	A	N3-C4	10.88	1.41	1.34
26	BB	1782	U	P-O5'	10.88	1.70	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	21	G	C2-N3	10.87	1.41	1.32
26	BB	2136	G	N3-C4	10.87	1.43	1.35
1	AA	1137	C	N1-C6	10.87	1.43	1.37
1	AA	1177	G	C8-N7	-10.87	1.24	1.30
26	BB	1955	U	C2-N3	10.87	1.45	1.37
26	BB	900	A	N3-C4	10.86	1.41	1.34
1	AA	1339	A	N3-C4	10.85	1.41	1.34
26	BB	1706	C	N1-C6	10.85	1.43	1.37
4	AD	66	C	N1-C6	10.85	1.43	1.37
1	AA	1531	A	P-O5'	10.85	1.70	1.59
26	BB	759	G	N3-C4	10.84	1.43	1.35
26	BB	1232	G	P-O5'	10.84	1.70	1.59
26	BB	528	A	N7-C5	-10.84	1.32	1.39
26	BB	1317	G	N3-C4	10.84	1.43	1.35
26	BB	1494	A	N3-C4	10.84	1.41	1.34
26	BB	920	A	N3-C4	10.83	1.41	1.34
26	BB	1486	U	P-O5'	10.83	1.70	1.59
26	BB	530	G	P-O5'	10.82	1.70	1.59
26	BB	1046	A	N9-C4	-10.81	1.31	1.37
26	BB	1307	A	N9-C4	10.80	1.44	1.37
26	BB	1930	G	O3'-P	10.79	1.74	1.61
1	AA	1385	G	P-O5'	10.79	1.70	1.59
1	AA	631	C	N1-C6	10.78	1.43	1.37
1	AA	774	G	P-O5'	10.77	1.70	1.59
26	BB	599	A	C5-C4	-10.77	1.31	1.38
25	BA	92	C	N1-C6	10.77	1.43	1.37
26	BB	2782	G	N7-C5	10.77	1.45	1.39
26	BB	2619	C	N1-C6	10.76	1.43	1.37
1	AA	1457	G	P-O5'	10.75	1.70	1.59
26	BB	90	U	P-O5'	-10.75	1.49	1.59
26	BB	224	U	C2-N3	10.74	1.45	1.37
26	BB	177	G	C8-N7	-10.74	1.24	1.30
26	BB	1644	C	N3-C4	10.74	1.41	1.33
26	BB	1090	A	C5-C4	-10.74	1.31	1.38
1	AA	1217	C	P-O5'	10.73	1.70	1.59
26	BB	396	G	P-O5'	10.73	1.70	1.59
26	BB	2046	G	N9-C4	-10.72	1.29	1.38
26	BB	1651	G	C2-N3	10.71	1.41	1.32
26	BB	900	A	C5-C6	10.71	1.50	1.41
26	BB	2426	A	N7-C5	-10.71	1.32	1.39
26	BB	2705	A	N3-C4	10.70	1.41	1.34
1	AA	76	G	N7-C5	10.70	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	783	A	N9-C4	10.70	1.44	1.37
1	AA	1535	C	N3-C4	10.69	1.41	1.33
26	BB	482	A	C8-N7	-10.69	1.24	1.31
1	AA	466	A	N9-C4	10.68	1.44	1.37
26	BB	2043	C	N1-C6	10.68	1.43	1.37
1	AA	433	G	C8-N7	-10.68	1.24	1.30
1	AA	1050	G	P-O5'	10.68	1.70	1.59
26	BB	2822	G	N7-C5	10.68	1.45	1.39
1	AA	254	G	O3'-P	10.68	1.74	1.61
4	AD	5	G	N1-C2	10.68	1.46	1.37
26	BB	404	A	C4'-C3'	10.67	1.64	1.53
25	BA	25	U	P-O5'	10.67	1.70	1.59
26	BB	920	A	N9-C4	-10.66	1.31	1.37
26	BB	82	U	C2-N3	10.66	1.45	1.37
1	AA	556	C	N1-C6	10.65	1.43	1.37
26	BB	435	C	N1-C6	10.65	1.43	1.37
26	BB	101	A	N3-C4	10.64	1.41	1.34
26	BB	285	G	N3-C4	10.63	1.42	1.35
1	AA	803	G	P-O5'	10.63	1.70	1.59
26	BB	86	G	C2-N3	10.62	1.41	1.32
26	BB	2841	C	C4-C5	10.62	1.51	1.43
1	AA	506	G	N1-C2	10.61	1.46	1.37
1	AA	412	A	N3-C4	10.61	1.41	1.34
26	BB	1046	A	P-O5'	10.59	1.70	1.59
26	BB	1478	G	N7-C5	10.59	1.45	1.39
1	AA	1508	A	N3-C4	10.59	1.41	1.34
1	AA	1349	A	C6-N1	-10.57	1.28	1.35
26	BB	2380	C	N3-C4	10.57	1.41	1.33
1	AA	1318	A	N7-C5	10.56	1.45	1.39
26	BB	926	G	P-O5'	10.56	1.70	1.59
2	AB	73	G	C8-N7	-10.56	1.24	1.30
26	BB	791	C	P-O5'	10.56	1.70	1.59
1	AA	1431	A	P-O5'	10.54	1.70	1.59
26	BB	724	U	P-O5'	10.54	1.70	1.59
1	AA	1329	A	N9-C4	10.53	1.44	1.37
1	AA	457	G	N7-C5	-10.52	1.32	1.39
26	BB	2585	U	C4-C5	10.51	1.53	1.43
26	BB	2569	G	C2-N3	10.51	1.41	1.32
1	AA	1042	A	N3-C4	10.51	1.41	1.34
26	BB	159	G	C8-N7	-10.50	1.24	1.30
26	BB	1356	G	N3-C4	10.50	1.42	1.35
1	AA	232	G	C2-N3	10.49	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	388	G	N7-C5	10.49	1.45	1.39
1	AA	585	G	N7-C5	10.49	1.45	1.39
26	BB	1577	C	N1-C6	10.49	1.43	1.37
26	BB	2677	G	N7-C5	-10.48	1.32	1.39
26	BB	604	G	C2-N3	10.48	1.41	1.32
26	BB	294	A	N9-C4	-10.48	1.31	1.37
26	BB	1226	A	P-O5'	10.48	1.70	1.59
1	AA	42	G	P-O5'	10.47	1.70	1.59
26	BB	2617	U	C2-N3	10.47	1.45	1.37
1	AA	471	U	C5-C6	10.47	1.43	1.34
1	AA	832	G	N3-C4	10.46	1.42	1.35
26	BB	204	A	N3-C4	10.46	1.41	1.34
26	BB	1171	G	C8-N7	10.46	1.37	1.30
1	AA	380	G	P-O5'	10.46	1.70	1.59
26	BB	990	A	C2-N3	10.45	1.43	1.33
26	BB	2530	A	N3-C4	10.45	1.41	1.34
26	BB	773	U	P-O5'	10.44	1.70	1.59
1	AA	711	G	C2-N3	10.44	1.41	1.32
1	AA	123	U	P-O5'	10.43	1.70	1.59
1	AA	1369	C	C4-C5	10.43	1.51	1.43
26	BB	905	A	N3-C4	10.43	1.41	1.34
26	BB	2513	A	C6-N1	10.43	1.42	1.35
1	AA	1197	A	P-O5'	10.43	1.70	1.59
1	AA	1186	G	N7-C5	10.41	1.45	1.39
26	BB	248	G	N3-C4	10.41	1.42	1.35
26	BB	227	A	N9-C4	10.41	1.44	1.37
26	BB	503	A	N3-C4	10.41	1.41	1.34
26	BB	2831	G	N7-C5	-10.40	1.33	1.39
26	BB	2177	C	C4-C5	10.39	1.51	1.43
1	AA	1259	C	P-O5'	10.39	1.70	1.59
2	AB	23	A	N7-C5	10.39	1.45	1.39
26	BB	1285	A	N3-C4	10.39	1.41	1.34
4	AD	67	C	P-O5'	10.38	1.70	1.59
26	BB	1285	A	C5-C4	-10.38	1.31	1.38
26	BB	1903	G	C6-N1	10.39	1.46	1.39
26	BB	1933	G	P-O5'	10.38	1.70	1.59
26	BB	1653	G	N7-C5	-10.38	1.33	1.39
1	AA	1505	G	P-O5'	10.38	1.70	1.59
26	BB	1096	A	N7-C5	10.38	1.45	1.39
26	BB	455	C	C5-C6	10.37	1.42	1.34
1	AA	302	G	N7-C5	-10.37	1.33	1.39
1	AA	567	G	C8-N7	-10.36	1.24	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1525	G	N9-C8	10.36	1.45	1.37
26	BB	709	U	P-O5'	10.36	1.70	1.59
26	BB	2158	A	C6-N1	10.36	1.42	1.35
1	AA	442	G	C2-N3	10.35	1.41	1.32
1	AA	724	G	N7-C5	-10.35	1.33	1.39
26	BB	2851	A	N3-C4	10.35	1.41	1.34
26	BB	1836	C	N1-C6	10.34	1.43	1.37
1	AA	273	U	C2-N3	10.32	1.45	1.37
25	BA	81	G	P-O5'	10.32	1.70	1.59
1	AA	468	A	N9-C4	10.32	1.44	1.37
1	AA	1293	C	P-O5'	10.32	1.70	1.59
26	BB	1711	A	N9-C4	10.32	1.44	1.37
26	BB	523	C	C4-C5	10.31	1.51	1.43
1	AA	1527	U	C2-N3	10.30	1.45	1.37
26	BB	998	C	N1-C6	10.28	1.43	1.37
26	BB	2711	A	P-O5'	10.28	1.70	1.59
1	AA	35	G	N9-C8	-10.27	1.30	1.37
26	BB	1227	G	N3-C4	10.27	1.42	1.35
26	BB	1703	G	C2-N3	10.27	1.41	1.32
26	BB	1231	U	C2-N3	10.25	1.45	1.37
26	BB	2820	A	N9-C4	-10.25	1.31	1.37
26	BB	11	C	N1-C6	10.24	1.43	1.37
1	AA	923	A	N9-C4	-10.23	1.31	1.37
26	BB	927	A	C6-N6	10.23	1.42	1.33
26	BB	2129	C	P-O5'	10.23	1.70	1.59
1	AA	1469	C	N1-C6	10.22	1.43	1.37
26	BB	425	G	N7-C5	10.22	1.45	1.39
26	BB	2177	C	C5-C6	10.22	1.42	1.34
26	BB	1803	A	P-O5'	10.21	1.70	1.59
1	AA	190	A	N7-C5	-10.21	1.33	1.39
26	BB	1587	G	N7-C5	10.21	1.45	1.39
1	AA	611	C	N1-C6	10.21	1.43	1.37
1	AA	444	G	N7-C5	-10.21	1.33	1.39
26	BB	1971	U	C2-N3	10.21	1.44	1.37
1	AA	1286	U	P-O5'	10.20	1.70	1.59
26	BB	2057	G	N3-C4	10.20	1.42	1.35
1	AA	632	U	P-O5'	10.19	1.70	1.59
26	BB	2641	G	N7-C5	10.19	1.45	1.39
26	BB	1187	G	C8-N7	-10.19	1.24	1.30
26	BB	7	G	P-O5'	10.19	1.70	1.59
26	BB	661	A	N3-C4	10.18	1.41	1.34
1	AA	167	A	N7-C5	10.18	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	580	C	C4'-O4'	-10.18	1.32	1.45
1	AA	1366	C	C5-C6	10.18	1.42	1.34
26	BB	2299	U	P-O5'	10.17	1.70	1.59
26	BB	358	U	C5-C6	10.15	1.43	1.34
26	BB	2375	G	N7-C5	-10.15	1.33	1.39
26	BB	999	U	C4'-O4'	-10.15	1.32	1.45
26	BB	1885	A	N3-C4	10.15	1.41	1.34
1	AA	1194	U	P-O5'	10.14	1.69	1.59
3	AC	38	G	N3-C4	10.14	1.42	1.35
26	BB	1938	A	N3-C4	10.14	1.41	1.34
1	AA	1105	A	N9-C4	10.13	1.44	1.37
1	AA	1216	A	N3-C4	10.13	1.41	1.34
26	BB	1268	A	N3-C4	10.13	1.41	1.34
26	BB	1206	G	N7-C5	10.13	1.45	1.39
26	BB	2154	A	P-O5'	10.12	1.69	1.59
26	BB	488	G	N3-C4	10.12	1.42	1.35
26	BB	2696	U	C2-N3	10.12	1.44	1.37
25	BA	43	C	C2-N3	10.11	1.43	1.35
26	BB	1746	A	P-O5'	10.11	1.69	1.59
1	AA	1146	A	N3-C4	10.11	1.41	1.34
26	BB	1342	A	C6-N1	-10.11	1.28	1.35
26	BB	919	U	P-O5'	10.11	1.69	1.59
1	AA	314	C	C2-N3	10.10	1.43	1.35
1	AA	1270	G	N9-C8	-10.10	1.30	1.37
26	BB	1787	A	N3-C4	10.10	1.41	1.34
1	AA	281	G	N9-C8	-10.10	1.30	1.37
26	BB	2664	G	N1-C2	10.09	1.45	1.37
1	AA	485	U	C2-N3	10.08	1.44	1.37
26	BB	2354	C	P-O5'	10.08	1.69	1.59
26	BB	1517	G	C3'-C2'	10.08	1.64	1.52
26	BB	2392	A	C4'-C3'	10.08	1.64	1.53
1	AA	800	G	N9-C8	10.08	1.45	1.37
26	BB	2405	G	C8-N7	-10.07	1.25	1.30
1	AA	415	A	N7-C5	-10.07	1.33	1.39
26	BB	755	U	C2-N3	10.07	1.44	1.37
26	BB	2259	U	N1-C2	10.07	1.47	1.38
1	AA	1541	U	C2-N3	10.06	1.44	1.37
1	AA	180	U	P-O5'	-10.06	1.49	1.59
1	AA	562	U	C2-N3	10.05	1.44	1.37
26	BB	2208	C	C2-N3	10.05	1.43	1.35
26	BB	2348	U	C2-N3	10.05	1.44	1.37
26	BB	2625	G	C8-N7	-10.04	1.25	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	366	A	N9-C8	10.04	1.45	1.37
3	AC	36	U	C2-N3	10.04	1.44	1.37
26	BB	111	A	N9-C4	10.03	1.43	1.37
26	BB	1688	U	C4-C5	10.02	1.52	1.43
26	BB	1729	U	C2-N3	10.02	1.44	1.37
1	AA	396	C	O3'-P	10.02	1.73	1.61
1	AA	521	G	C6-N1	10.02	1.46	1.39
26	BB	350	G	N3-C4	10.02	1.42	1.35
26	BB	628	G	N1-C2	10.02	1.45	1.37
26	BB	2134	A	N3-C4	10.02	1.40	1.34
26	BB	1418	G	C6-N1	-10.01	1.32	1.39
1	AA	1466	C	C4-C5	10.01	1.50	1.43
26	BB	578	G	N7-C5	10.01	1.45	1.39
1	AA	14	U	C2-N3	10.00	1.44	1.37
1	AA	410	G	C2-N3	10.00	1.40	1.32
26	BB	608	A	N3-C4	10.00	1.40	1.34
25	BA	78	A	C8-N7	-10.00	1.24	1.31
26	BB	1644	C	N1-C6	10.00	1.43	1.37
1	AA	274	A	N3-C4	10.00	1.40	1.34
1	AA	229	U	C4-C5	9.99	1.52	1.43
26	BB	524	G	C8-N7	-9.99	1.25	1.30
26	BB	1948	G	P-O5'	9.99	1.69	1.59
1	AA	1252	A	P-O5'	9.99	1.69	1.59
26	BB	1448	G	P-O5'	9.98	1.69	1.59
1	AA	595	A	N7-C5	9.98	1.45	1.39
26	BB	2412	A	N3-C4	9.97	1.40	1.34
26	BB	1881	C	C2-N3	9.97	1.43	1.35
26	BB	2474	U	C2-N3	9.97	1.44	1.37
1	AA	815	A	C3'-C2'	9.96	1.64	1.52
26	BB	2190	G	C2-N3	9.96	1.40	1.32
4	AD	29	C	C4-C5	9.96	1.50	1.43
26	BB	111	A	O3'-P	9.96	1.73	1.61
1	AA	1377	A	N7-C5	-9.95	1.33	1.39
1	AA	8	A	P-O5'	9.95	1.69	1.59
1	AA	382	A	N3-C4	9.95	1.40	1.34
26	BB	677	A	N7-C5	9.95	1.45	1.39
26	BB	1022	G	C2-N3	9.95	1.40	1.32
1	AA	453	G	C6-N1	9.94	1.46	1.39
1	AA	1199	U	C2-N3	9.94	1.44	1.37
26	BB	328	U	P-O5'	9.94	1.69	1.59
1	AA	1106	G	P-O5'	9.94	1.69	1.59
26	BB	107	G	P-O5'	9.93	1.69	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1113	U	P-O5'	9.93	1.69	1.59
1	AA	825	A	C8-N7	-9.93	1.24	1.31
26	BB	2229	U	P-O5'	9.93	1.69	1.59
26	BB	201	C	N1-C6	9.92	1.43	1.37
26	BB	670	A	N9-C4	-9.92	1.31	1.37
26	BB	1902	C	P-O5'	9.92	1.69	1.59
26	BB	263	G	C2-N3	9.92	1.40	1.32
26	BB	2250	G	C2-N3	9.92	1.40	1.32
3	AC	29	G	C6-N1	-9.91	1.32	1.39
26	BB	1948	G	C2'-C1'	9.90	1.64	1.53
26	BB	2822	G	N9-C4	9.90	1.45	1.38
26	BB	561	G	C2-N3	9.90	1.40	1.32
26	BB	2346	A	N3-C4	9.90	1.40	1.34
26	BB	150	U	O3'-P	9.90	1.73	1.61
26	BB	883	G	N1-C2	9.90	1.45	1.37
26	BB	1932	A	N3-C4	9.90	1.40	1.34
3	AC	43	U	P-O5'	9.90	1.69	1.59
26	BB	2433	A	P-O5'	9.90	1.69	1.59
26	BB	1527	G	C3'-C2'	9.89	1.63	1.52
26	BB	253	C	N3-C4	9.89	1.40	1.33
26	BB	604	G	C8-N7	-9.89	1.25	1.30
4	AD	38	A	C6-N1	9.88	1.42	1.35
1	AA	877	G	P-O5'	9.87	1.69	1.59
26	BB	1847	A	N7-C5	-9.87	1.33	1.39
3	AC	45	G	C2-N3	9.86	1.40	1.32
1	AA	648	A	N3-C4	-9.86	1.28	1.34
26	BB	513	A	N3-C4	9.86	1.40	1.34
26	BB	411	G	P-O5'	9.86	1.69	1.59
1	AA	68	G	C8-N7	-9.86	1.25	1.30
26	BB	2461	A	N9-C8	9.85	1.45	1.37
26	BB	400	G	C2-N3	9.85	1.40	1.32
3	AC	25	U	C2-N3	9.85	1.44	1.37
1	AA	258	G	N7-C5	9.85	1.45	1.39
26	BB	299	A	N3-C4	9.84	1.40	1.34
26	BB	2127	G	P-O5'	9.84	1.69	1.59
26	BB	1588	G	N7-C5	-9.84	1.33	1.39
1	AA	495	A	N3-C4	9.83	1.40	1.34
26	BB	261	G	C2-N3	9.83	1.40	1.32
1	AA	1357	A	N3-C4	9.83	1.40	1.34
26	BB	2573	C	O3'-P	9.82	1.73	1.61
1	AA	281	G	N3-C4	9.82	1.42	1.35
26	BB	2461	A	N9-C4	-9.82	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	829	G	N7-C5	-9.82	1.33	1.39
1	AA	741	G	C5-C4	-9.81	1.31	1.38
4	AD	54	G	N7-C5	9.81	1.45	1.39
26	BB	1546	G	P-O5'	9.81	1.69	1.59
26	BB	978	G	C5-C4	-9.81	1.31	1.38
1	AA	1149	C	C4-C5	9.79	1.50	1.43
26	BB	284	U	O3'-P	9.79	1.72	1.61
26	BB	2430	A	N9-C4	9.79	1.43	1.37
1	AA	278	G	C5-C6	9.78	1.52	1.42
26	BB	1806	C	N1-C6	9.78	1.43	1.37
26	BB	502	A	N3-C4	9.78	1.40	1.34
26	BB	2524	G	P-O5'	9.78	1.69	1.59
1	AA	1311	A	N3-C4	9.77	1.40	1.34
26	BB	403	U	C2-N3	9.77	1.44	1.37
1	AA	177	G	N1-C2	9.76	1.45	1.37
1	AA	872	A	N9-C4	9.76	1.43	1.37
26	BB	91	A	P-O5'	9.75	1.69	1.59
26	BB	177	G	C2-N3	9.75	1.40	1.32
1	AA	958	A	N7-C5	-9.74	1.33	1.39
26	BB	308	G	N1-C2	9.74	1.45	1.37
1	AA	1216	A	O3'-P	9.74	1.72	1.61
1	AA	582	C	N1-C6	9.74	1.43	1.37
1	AA	1440	U	C4-C5	9.74	1.52	1.43
26	BB	1626	A	N9-C4	-9.74	1.32	1.37
26	BB	1448	G	N7-C5	9.74	1.45	1.39
26	BB	1839	G	N1-C2	9.74	1.45	1.37
1	AA	289	G	C2-N3	9.73	1.40	1.32
26	BB	2088	A	N9-C4	9.73	1.43	1.37
26	BB	2597	G	C8-N7	-9.73	1.25	1.30
26	BB	44	A	N3-C4	9.72	1.40	1.34
26	BB	533	G	N1-C2	9.72	1.45	1.37
26	BB	1014	A	N3-C4	9.72	1.40	1.34
26	BB	981	A	C5-C6	9.72	1.49	1.41
1	AA	1210	C	C2-O2	-9.72	1.15	1.24
1	AA	558	G	N3-C4	9.72	1.42	1.35
1	AA	919	A	C8-N7	9.71	1.38	1.31
1	AA	764	C	N3-C4	9.71	1.40	1.33
26	BB	1069	A	N3-C4	9.71	1.40	1.34
26	BB	1090	A	N7-C5	-9.71	1.33	1.39
26	BB	585	G	C5-C4	-9.70	1.31	1.38
2	AB	62	U	C2-N3	9.70	1.44	1.37
26	BB	1765	U	C2-N3	9.69	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	165	G	O3'-P	9.69	1.72	1.61
1	AA	1219	A	C6-N1	9.69	1.42	1.35
26	BB	2651	C	N1-C6	9.69	1.43	1.37
26	BB	2303	G	C2-N3	9.68	1.40	1.32
26	BB	681	G	C8-N7	-9.68	1.25	1.30
26	BB	971	G	C6-N1	9.68	1.46	1.39
26	BB	993	G	N9-C8	-9.68	1.31	1.37
1	AA	376	G	N3-C4	9.67	1.42	1.35
26	BB	1327	A	P-O5'	9.67	1.69	1.59
1	AA	1218	C	C5-C6	9.67	1.42	1.34
26	BB	947	A	N3-C4	9.67	1.40	1.34
1	AA	102	G	C5'-C4'	9.67	1.62	1.51
25	BA	89	U	C5'-C4'	9.67	1.62	1.51
26	BB	1766	G	N3-C4	9.67	1.42	1.35
1	AA	866	C	C2'-O2'	9.66	1.54	1.41
1	AA	1434	A	N9-C4	-9.66	1.32	1.37
26	BB	1531	C	C4-C5	9.66	1.50	1.43
26	BB	1579	A	N3-C4	9.66	1.40	1.34
26	BB	2623	G	C6-N1	9.66	1.46	1.39
26	BB	1331	G	C5-C4	9.66	1.45	1.38
2	AB	67	G	N7-C5	-9.65	1.33	1.39
26	BB	2056	G	N3-C4	9.65	1.42	1.35
26	BB	1294	U	P-O5'	9.65	1.69	1.59
1	AA	1160	G	P-O5'	9.65	1.69	1.59
26	BB	416	U	N1-C2	9.65	1.47	1.38
26	BB	445	C	O3'-P	9.65	1.72	1.61
1	AA	272	C	P-O5'	9.64	1.69	1.59
26	BB	2128	G	P-O5'	9.64	1.69	1.59
1	AA	1185	G	C2-N3	9.63	1.40	1.32
26	BB	2170	A	N9-C4	9.63	1.43	1.37
1	AA	540	G	C2-N2	-9.63	1.25	1.34
26	BB	365	U	P-O5'	9.63	1.69	1.59
26	BB	1159	U	C2-N3	9.63	1.44	1.37
25	BA	10	G	C6-N1	9.62	1.46	1.39
26	BB	1138	G	C6-N1	9.62	1.46	1.39
1	AA	237	G	N7-C5	9.62	1.45	1.39
1	AA	968	A	C4'-O4'	-9.62	1.33	1.45
1	AA	71	A	N3-C4	9.62	1.40	1.34
26	BB	1776	G	C6-N1	9.62	1.46	1.39
26	BB	727	A	P-O5'	9.62	1.69	1.59
26	BB	2720	U	C5-C6	9.62	1.42	1.34
26	BB	778	G	O3'-P	9.62	1.72	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1338	G	C8-N7	-9.61	1.25	1.30
26	BB	1776	G	P-O5'	9.62	1.69	1.59
26	BB	2112	G	C8-N7	-9.61	1.25	1.30
1	AA	1130	A	N3-C4	9.61	1.40	1.34
2	AB	53	G	P-O5'	9.61	1.69	1.59
26	BB	1135	C	P-O5'	9.61	1.69	1.59
26	BB	823	C	P-O5'	9.61	1.69	1.59
26	BB	1408	G	N3-C4	9.61	1.42	1.35
26	BB	1950	G	P-O5'	9.60	1.69	1.59
26	BB	29	U	C2-N3	9.60	1.44	1.37
26	BB	101	A	C4'-O4'	-9.59	1.33	1.45
26	BB	1257	C	N1-C6	-9.58	1.31	1.37
26	BB	1868	C	O3'-P	-9.57	1.49	1.61
1	AA	236	A	N3-C4	9.56	1.40	1.34
26	BB	110	G	C5-C4	-9.56	1.31	1.38
26	BB	155	A	P-O5'	9.56	1.69	1.59
26	BB	2405	G	N7-C5	9.56	1.45	1.39
26	BB	2323	G	N7-C5	-9.56	1.33	1.39
26	BB	2042	A	N9-C4	9.55	1.43	1.37
26	BB	2733	A	C8-N7	-9.54	1.24	1.31
26	BB	1422	G	P-O5'	9.54	1.69	1.59
26	BB	1260	A	N3-C4	9.54	1.40	1.34
26	BB	1500	G	N3-C4	9.54	1.42	1.35
26	BB	308	G	P-O5'	9.54	1.69	1.59
26	BB	2275	C	N3-C4	9.53	1.40	1.33
26	BB	1400	U	C2-N3	9.53	1.44	1.37
26	BB	2886	A	P-O5'	9.53	1.69	1.59
1	AA	785	G	N9-C8	-9.53	1.31	1.37
1	AA	1335	U	C4-C5	9.52	1.52	1.43
3	AC	15	G	N3-C4	9.52	1.42	1.35
26	BB	2339	C	N3-C4	9.52	1.40	1.33
26	BB	1044	C	N1-C6	9.52	1.42	1.37
26	BB	1785	A	C6-N6	9.52	1.41	1.33
26	BB	1990	C	P-O5'	9.52	1.69	1.59
26	BB	1261	C	C3'-C2'	-9.52	1.42	1.52
1	AA	30	U	C5'-C4'	9.52	1.62	1.51
1	AA	77	A	N9-C4	9.51	1.43	1.37
26	BB	1414	C	O3'-P	9.51	1.72	1.61
26	BB	2704	C	C2-N3	9.51	1.43	1.35
1	AA	829	G	C8-N7	-9.51	1.25	1.30
26	BB	20	C	C5-C6	9.51	1.42	1.34
26	BB	1124	G	N7-C5	9.50	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1086	U	P-O5'	9.50	1.69	1.59
3	AC	58	C	C4-C5	9.50	1.50	1.43
26	BB	2229	U	O3'-P	9.50	1.72	1.61
26	BB	2550	G	C8-N7	9.50	1.36	1.30
26	BB	2556	C	C2-N3	9.50	1.43	1.35
26	BB	2666	C	N1-C6	-9.50	1.31	1.37
26	BB	2171	A	C6-N1	9.49	1.42	1.35
1	AA	360	G	N7-C5	9.49	1.45	1.39
1	AA	1263	C	N1-C6	9.49	1.42	1.37
1	AA	1032	G	N9-C4	-9.48	1.30	1.38
26	BB	1603	A	C5'-C4'	9.48	1.62	1.51
26	BB	653	U	C2-N3	9.48	1.44	1.37
26	BB	1087	G	N1-C2	9.47	1.45	1.37
26	BB	449	A	P-O5'	9.47	1.69	1.59
26	BB	450	G	N7-C5	9.47	1.45	1.39
26	BB	2871	U	C2-N3	9.47	1.44	1.37
1	AA	796	C	N3-C4	9.47	1.40	1.33
26	BB	2004	G	C5-C4	-9.46	1.31	1.38
26	BB	2554	U	P-O5'	9.46	1.69	1.59
26	BB	282	A	N9-C4	9.46	1.43	1.37
26	BB	2737	G	P-O5'	9.46	1.69	1.59
26	BB	1840	G	C6-N1	9.46	1.46	1.39
1	AA	1484	C	C4-C5	9.45	1.50	1.43
26	BB	498	G	P-O5'	9.45	1.69	1.59
26	BB	1265	A	N7-C5	-9.45	1.33	1.39
26	BB	290	U	C2-N3	9.45	1.44	1.37
3	AC	40	G	C8-N7	9.44	1.36	1.30
26	BB	2802	G	C2-N3	9.44	1.40	1.32
26	BB	1600	C	N3-C4	9.44	1.40	1.33
26	BB	830	G	C5-C4	-9.44	1.31	1.38
1	AA	1384	C	N3-C4	9.43	1.40	1.33
2	AB	5	G	P-O5'	9.43	1.69	1.59
1	AA	48	C	O3'-P	9.43	1.72	1.61
26	BB	2511	U	N1-C2	9.43	1.47	1.38
1	AA	388	G	N9-C4	9.43	1.45	1.38
26	BB	266	G	C6-N1	-9.43	1.32	1.39
26	BB	682	G	P-O5'	9.43	1.69	1.59
1	AA	519	C	C4-C5	-9.42	1.35	1.43
26	BB	1239	G	C2-N3	9.42	1.40	1.32
25	BA	74	U	N3-C4	9.42	1.47	1.38
26	BB	299	A	P-O5'	9.42	1.69	1.59
26	BB	1649	G	N7-C5	-9.42	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	452	G	N3-C4	9.41	1.42	1.35
1	AA	1004	A	N7-C5	9.41	1.44	1.39
26	BB	2151	U	C4'-O4'	-9.41	1.33	1.45
1	AA	1105	A	N3-C4	9.41	1.40	1.34
25	BA	3	C	P-O5'	9.40	1.69	1.59
1	AA	986	U	C2-N3	9.40	1.44	1.37
26	BB	776	G	P-O5'	9.40	1.69	1.59
1	AA	1487	G	N3-C4	9.40	1.42	1.35
26	BB	1597	A	N3-C4	9.40	1.40	1.34
26	BB	2535	G	P-O5'	9.40	1.69	1.59
26	BB	2602	A	C5-C4	9.40	1.45	1.38
1	AA	122	G	N3-C4	9.40	1.42	1.35
26	BB	2842	G	N3-C4	9.40	1.42	1.35
26	BB	1192	G	C5-C4	9.39	1.45	1.38
3	AC	41	A	N7-C5	-9.39	1.33	1.39
3	AC	54	U	C2-N3	9.39	1.44	1.37
26	BB	2778	A	N7-C5	-9.39	1.33	1.39
26	BB	985	C	P-O5'	9.39	1.69	1.59
26	BB	1214	A	N3-C4	9.38	1.40	1.34
26	BB	2846	G	C8-N7	9.38	1.36	1.30
1	AA	395	C	N1-C6	9.38	1.42	1.37
1	AA	238	A	N3-C4	9.38	1.40	1.34
26	BB	1410	G	C3'-C2'	9.38	1.63	1.52
26	BB	2306	C	O3'-P	9.37	1.72	1.61
1	AA	436	C	P-O5'	9.36	1.69	1.59
2	AB	10	G	N9-C8	9.37	1.44	1.37
26	BB	1038	G	N7-C5	9.36	1.44	1.39
26	BB	2837	A	N7-C5	-9.36	1.33	1.39
1	AA	819	A	P-O5'	9.36	1.69	1.59
3	AC	24	A	N3-C4	9.35	1.40	1.34
26	BB	2891	U	P-O5'	9.34	1.69	1.59
26	BB	461	C	N1-C6	9.34	1.42	1.37
26	BB	1747	U	O3'-P	9.34	1.72	1.61
1	AA	705	G	C8-N7	9.32	1.36	1.30
26	BB	219	A	N3-C4	9.32	1.40	1.34
26	BB	2061	G	N7-C5	9.32	1.44	1.39
26	BB	841	G	C6-N1	9.32	1.46	1.39
26	BB	2370	G	C2-N3	9.32	1.40	1.32
26	BB	2592	G	C2-N3	9.32	1.40	1.32
26	BB	2636	C	C2-O2	-9.32	1.16	1.24
1	AA	764	C	P-O5'	9.32	1.69	1.59
1	AA	817	C	C2-N3	-9.32	1.28	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	75	G	O3'-P	9.32	1.72	1.61
26	BB	2330	G	P-O5'	9.32	1.69	1.59
26	BB	1437	C	C5'-C4'	9.31	1.62	1.51
1	AA	138	G	N7-C5	-9.31	1.33	1.39
1	AA	818	G	C8-N7	-9.31	1.25	1.30
1	AA	1172	C	C2-N3	9.31	1.43	1.35
26	BB	1987	A	N7-C5	-9.30	1.33	1.39
1	AA	154	U	N1-C2	9.30	1.47	1.38
26	BB	1002	G	C6-N1	9.30	1.46	1.39
26	BB	1308	A	N3-C4	9.30	1.40	1.34
26	BB	1503	A	N9-C4	-9.30	1.32	1.37
26	BB	176	A	N9-C4	9.29	1.43	1.37
1	AA	85	U	N1-C6	-9.29	1.29	1.38
26	BB	2545	G	C5-C4	-9.29	1.31	1.38
1	AA	9	G	N7-C5	9.29	1.44	1.39
1	AA	1395	C	C4-C5	9.29	1.50	1.43
26	BB	441	U	C5'-C4'	9.29	1.62	1.51
26	BB	1294	U	N1-C2	9.29	1.47	1.38
26	BB	2147	A	N7-C5	-9.29	1.33	1.39
26	BB	2857	G	N7-C5	-9.29	1.33	1.39
26	BB	2560	A	N3-C4	9.28	1.40	1.34
1	AA	156	C	N1-C6	9.28	1.42	1.37
26	BB	466	A	P-O5'	9.28	1.69	1.59
26	BB	900	A	C5'-C4'	9.28	1.62	1.51
26	BB	53	A	N7-C5	9.28	1.44	1.39
1	AA	1299	A	N3-C4	9.28	1.40	1.34
26	BB	118	A	N9-C4	9.28	1.43	1.37
26	BB	2322	A	C8-N7	-9.27	1.25	1.31
26	BB	219	A	C6-N1	-9.27	1.29	1.35
26	BB	2657	A	C5-C4	-9.27	1.32	1.38
26	BB	2864	G	O3'-P	9.26	1.72	1.61
1	AA	1226	C	C4'-O4'	-9.26	1.33	1.45
4	AD	67	C	C4'-C3'	9.26	1.63	1.53
26	BB	2826	A	N9-C4	9.26	1.43	1.37
26	BB	1455	G	C2-N3	9.26	1.40	1.32
26	BB	2221	G	C5-C4	-9.25	1.31	1.38
26	BB	2510	C	P-O5'	9.25	1.69	1.59
1	AA	524	G	N9-C8	9.25	1.44	1.37
26	BB	298	G	C2-N2	-9.25	1.25	1.34
26	BB	1249	U	C2-N3	9.24	1.44	1.37
25	BA	108	A	C8-N7	-9.24	1.25	1.31
26	BB	2674	G	P-O5'	9.24	1.69	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2470	G	N7-C5	9.24	1.44	1.39
1	AA	441	A	P-O5'	9.23	1.69	1.59
26	BB	1008	A	N7-C5	-9.23	1.33	1.39
1	AA	1298	U	P-O5'	9.23	1.69	1.59
26	BB	1161	C	P-O5'	9.23	1.69	1.59
26	BB	1737	G	C5'-C4'	9.23	1.62	1.51
1	AA	187	G	C8-N7	-9.23	1.25	1.30
1	AA	1541	U	C4-C5	9.23	1.51	1.43
26	BB	1022	G	C2'-C1'	9.23	1.63	1.53
26	BB	1471	G	N7-C5	9.23	1.44	1.39
26	BB	1564	C	C4-C5	9.23	1.50	1.43
26	BB	2560	A	C8-N7	-9.23	1.25	1.31
1	AA	1044	A	C2'-C1'	-9.22	1.43	1.53
25	BA	63	C	P-O5'	9.22	1.69	1.59
1	AA	805	C	C4-C5	9.22	1.50	1.43
26	BB	1039	A	N3-C4	9.21	1.40	1.34
1	AA	749	A	N9-C4	9.21	1.43	1.37
2	AB	19	G	N3-C4	9.21	1.41	1.35
25	BA	115	A	N7-C5	9.21	1.44	1.39
2	AB	69	C	C5'-C4'	9.21	1.62	1.51
26	BB	1506	U	P-O5'	9.21	1.69	1.59
1	AA	910	C	C4-C5	9.20	1.50	1.43
1	AA	104	G	N7-C5	9.20	1.44	1.39
1	AA	446	G	N3-C4	9.20	1.41	1.35
26	BB	1743	G	P-O5'	9.19	1.69	1.59
26	BB	1946	U	P-O5'	9.19	1.69	1.59
26	BB	2077	A	N3-C4	9.19	1.40	1.34
26	BB	2844	G	P-O5'	9.19	1.69	1.59
1	AA	846	G	C2-N3	9.19	1.40	1.32
1	AA	1175	G	N9-C8	9.19	1.44	1.37
26	BB	2247	A	N7-C5	-9.19	1.33	1.39
1	AA	83	C	N1-C6	9.18	1.42	1.37
1	AA	431	A	N7-C5	-9.18	1.33	1.39
26	BB	357	C	C4-C5	9.18	1.50	1.43
26	BB	408	G	N7-C5	9.18	1.44	1.39
26	BB	2799	A	C6-N1	9.18	1.42	1.35
1	AA	853	C	C2-N3	9.18	1.43	1.35
26	BB	600	G	C2-N3	9.18	1.40	1.32
26	BB	1981	A	C5-C4	-9.18	1.32	1.38
1	AA	653	U	C2-N3	9.17	1.44	1.37
26	BB	139	U	C2'-C1'	9.17	1.63	1.53
26	BB	1663	G	C8-N7	-9.17	1.25	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1267	C	N1-C6	9.17	1.42	1.37
1	AA	977	A	N3-C4	9.17	1.40	1.34
26	BB	2248	C	P-O5'	9.17	1.69	1.59
26	BB	2371	G	C2-N3	9.17	1.40	1.32
26	BB	2602	A	P-O5'	9.17	1.69	1.59
26	BB	947	A	C6-N6	-9.16	1.26	1.33
26	BB	1632	A	N3-C4	9.16	1.40	1.34
26	BB	1722	A	N3-C4	9.16	1.40	1.34
4	AD	46	G	N3-C4	9.16	1.41	1.35
26	BB	2727	A	N3-C4	9.16	1.40	1.34
1	AA	1481	U	C2-N3	9.16	1.44	1.37
26	BB	2117	A	C5-C4	-9.16	1.32	1.38
1	AA	719	C	C2-N3	9.15	1.43	1.35
26	BB	551	G	C2-N3	9.15	1.40	1.32
26	BB	1329	U	C2-N3	9.15	1.44	1.37
26	BB	2344	U	C5-C6	9.15	1.42	1.34
1	AA	573	A	N9-C8	9.15	1.45	1.37
2	AB	47	U	C4'-O4'	-9.15	1.33	1.45
1	AA	69	G	C6-O6	-9.14	1.16	1.24
1	AA	306	A	P-O5'	9.14	1.68	1.59
26	BB	427	U	C2-N3	9.14	1.44	1.37
26	BB	118	A	P-O5'	9.14	1.68	1.59
26	BB	1021	A	P-O5'	9.14	1.68	1.59
1	AA	1195	C	N3-C4	9.14	1.40	1.33
26	BB	2140	G	C6-N1	-9.14	1.33	1.39
26	BB	2231	U	P-O5'	9.13	1.68	1.59
26	BB	2691	C	C4-C5	9.13	1.50	1.43
3	AC	30	U	N1-C2	9.13	1.46	1.38
26	BB	176	A	P-O5'	9.13	1.68	1.59
26	BB	1284	A	N3-C4	9.13	1.40	1.34
1	AA	877	G	N3-C4	9.13	1.41	1.35
26	BB	1050	A	N9-C4	9.13	1.43	1.37
1	AA	1292	G	C8-N7	-9.12	1.25	1.30
26	BB	1893	C	C4-C5	9.12	1.50	1.43
1	AA	710	G	N7-C5	9.12	1.44	1.39
1	AA	1419	G	P-O5'	9.12	1.68	1.59
26	BB	876	C	N1-C6	9.11	1.42	1.37
26	BB	930	G	C2-N3	9.11	1.40	1.32
1	AA	787	A	N3-C4	9.11	1.40	1.34
26	BB	690	G	C2-N3	9.11	1.40	1.32
26	BB	1205	A	N3-C4	9.11	1.40	1.34
1	AA	952	U	P-O5'	9.11	1.68	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	9	G	C8-N7	-9.10	1.25	1.30
1	AA	268	U	C2-N3	9.10	1.44	1.37
1	AA	759	A	O3'-P	9.10	1.72	1.61
26	BB	2421	G	P-O5'	9.10	1.68	1.59
1	AA	1072	G	C5-C4	9.10	1.44	1.38
26	BB	617	G	N9-C8	9.10	1.44	1.37
1	AA	546	A	O3'-P	9.10	1.72	1.61
26	BB	457	A	N7-C5	9.10	1.44	1.39
1	AA	125	U	P-O5'	9.09	1.68	1.59
26	BB	710	U	N1-C2	9.09	1.46	1.38
26	BB	1118	C	C5-C6	9.09	1.41	1.34
1	AA	715	A	C4'-O4'	-9.09	1.33	1.45
26	BB	1275	A	N3-C4	9.09	1.40	1.34
26	BB	2378	A	P-O5'	9.09	1.68	1.59
26	BB	2788	C	N3-C4	9.09	1.40	1.33
26	BB	953	G	N9-C8	9.09	1.44	1.37
1	AA	127	G	C5'-C4'	9.09	1.62	1.51
26	BB	2100	G	P-O5'	9.09	1.68	1.59
1	AA	629	A	N3-C4	9.08	1.40	1.34
1	AA	1228	C	C5-C6	9.08	1.41	1.34
26	BB	1227	G	C6-N1	-9.08	1.33	1.39
26	BB	1492	G	C6-N1	9.08	1.46	1.39
26	BB	2115	G	C6-N1	9.08	1.46	1.39
26	BB	1922	G	C6-N1	9.08	1.46	1.39
1	AA	348	G	N1-C2	9.08	1.45	1.37
1	AA	646	G	N7-C5	9.08	1.44	1.39
26	BB	700	G	C8-N7	-9.07	1.25	1.30
25	BA	7	G	P-O5'	9.07	1.68	1.59
26	BB	749	A	N7-C5	9.07	1.44	1.39
26	BB	298	G	N7-C5	9.07	1.44	1.39
1	AA	1248	A	N9-C4	-9.06	1.32	1.37
1	AA	1137	C	P-O5'	9.06	1.68	1.59
1	AA	925	G	N3-C4	9.06	1.41	1.35
26	BB	1457	U	C5'-C4'	9.06	1.62	1.51
1	AA	1295	U	P-O5'	9.06	1.68	1.59
26	BB	868	U	C5-C6	9.05	1.42	1.34
25	BA	66	A	P-O5'	9.05	1.68	1.59
1	AA	59	A	N3-C4	9.05	1.40	1.34
26	BB	2333	A	N9-C4	9.05	1.43	1.37
1	AA	1169	A	N3-C4	9.04	1.40	1.34
26	BB	970	U	P-O5'	9.04	1.68	1.59
26	BB	1700	A	N3-C4	9.04	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1120	G	C8-N7	-9.04	1.25	1.30
26	BB	2581	G	C6-N1	-9.04	1.33	1.39
26	BB	2263	C	C4-N4	9.04	1.42	1.33
1	AA	1089	G	C6-N1	-9.03	1.33	1.39
4	AD	22	A	P-O5'	9.03	1.68	1.59
1	AA	866	C	C2-N3	9.03	1.43	1.35
1	AA	1417	G	N3-C4	9.03	1.41	1.35
26	BB	547	A	N7-C5	-9.03	1.33	1.39
26	BB	2549	G	N3-C4	9.03	1.41	1.35
1	AA	1021	A	N3-C4	9.03	1.40	1.34
26	BB	1703	G	P-O5'	9.03	1.68	1.59
26	BB	85	G	N7-C5	-9.02	1.33	1.39
26	BB	1553	A	N9-C4	-9.02	1.32	1.37
4	AD	5	G	N7-C5	9.02	1.44	1.39
26	BB	774	G	C2'-C1'	-9.02	1.43	1.53
4	AD	77	A	N3-C4	9.01	1.40	1.34
26	BB	535	G	C2-N3	9.01	1.40	1.32
1	AA	215	C	C4-C5	9.01	1.50	1.43
1	AA	1458	G	C2'-C1'	9.00	1.63	1.53
1	AA	1514	G	C2-N3	-9.00	1.25	1.32
26	BB	1142	A	N7-C5	-9.00	1.33	1.39
26	BB	1321	A	N3-C4	-9.00	1.29	1.34
26	BB	631	A	P-O5'	8.99	1.68	1.59
26	BB	792	A	C6-N6	8.99	1.41	1.33
2	AB	32	OMC	O3'-P	8.99	1.72	1.61
26	BB	1676	A	N9-C4	8.99	1.43	1.37
26	BB	1113	U	C2-N3	8.99	1.44	1.37
26	BB	1540	G	P-O5'	8.99	1.68	1.59
26	BB	2517	C	C2-O2	-8.99	1.16	1.24
26	BB	905	A	C5'-C4'	8.99	1.62	1.51
1	AA	733	G	N3-C4	8.98	1.41	1.35
1	AA	352	C	P-O5'	8.98	1.68	1.59
1	AA	923	A	N7-C5	-8.98	1.33	1.39
26	BB	2548	U	O3'-P	8.98	1.72	1.61
26	BB	2223	G	P-O5'	8.98	1.68	1.59
26	BB	537	G	N1-C2	8.98	1.45	1.37
26	BB	963	U	C2-N3	8.98	1.44	1.37
26	BB	1147	A	N3-C4	8.97	1.40	1.34
1	AA	988	G	N9-C8	8.97	1.44	1.37
1	AA	359	G	C6-N1	8.97	1.45	1.39
1	AA	1470	U	C2-N3	8.97	1.44	1.37
1	AA	551	U	N1-C6	8.97	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	889	C	N1-C6	-8.97	1.31	1.37
1	AA	1216	A	C4'-O4'	-8.96	1.33	1.45
26	BB	2893	A	N3-C4	-8.96	1.29	1.34
1	AA	1088	G	N9-C8	8.96	1.44	1.37
26	BB	858	G	P-O5'	8.96	1.68	1.59
26	BB	2027	G	C2-N3	8.95	1.40	1.32
26	BB	191	A	N3-C4	8.95	1.40	1.34
26	BB	1458	U	C2-N3	8.95	1.44	1.37
26	BB	2890	G	C2'-C1'	8.95	1.63	1.53
1	AA	262	A	N9-C4	8.95	1.43	1.37
26	BB	2702	G	C6-N1	8.94	1.45	1.39
26	BB	730	A	N9-C8	8.94	1.45	1.37
26	BB	2273	A	C8-N7	-8.94	1.25	1.31
26	BB	986	C	P-O5'	8.94	1.68	1.59
1	AA	183	C	C4'-O4'	-8.93	1.33	1.45
1	AA	677	U	C2-N3	8.93	1.44	1.37
1	AA	525	C	C4-C5	8.93	1.50	1.43
1	AA	1318	A	N9-C4	8.93	1.43	1.37
1	AA	290	C	C2-N3	8.93	1.42	1.35
1	AA	720	C	C5-C6	8.93	1.41	1.34
26	BB	1315	C	P-O5'	8.92	1.68	1.59
26	BB	2319	G	C6-N1	8.92	1.45	1.39
1	AA	770	C	C5-C6	8.92	1.41	1.34
1	AA	1224	U	N1-C2	8.91	1.46	1.38
26	BB	914	G	C8-N7	-8.91	1.25	1.30
26	BB	843	G	C4'-O4'	-8.91	1.33	1.45
26	BB	1650	A	N3-C4	8.91	1.40	1.34
26	BB	1509	A	C6-N1	-8.90	1.29	1.35
1	AA	814	A	N3-C4	8.90	1.40	1.34
26	BB	885	C	N3-C4	8.90	1.40	1.33
1	AA	1017	U	P-O5'	8.90	1.68	1.59
1	AA	255	G	P-O5'	8.89	1.68	1.59
1	AA	498	A	N7-C5	-8.89	1.33	1.39
26	BB	655	A	C5'-C4'	8.89	1.62	1.51
1	AA	209	U	C5'-C4'	8.89	1.62	1.51
1	AA	885	G	N3-C4	8.89	1.41	1.35
26	BB	1000	A	C6-N6	8.89	1.41	1.33
26	BB	1814	G	N9-C4	-8.89	1.30	1.38
1	AA	55	A	C5-C4	-8.89	1.32	1.38
1	AA	744	C	N3-C4	8.89	1.40	1.33
3	AC	47	C	C4'-O4'	-8.89	1.33	1.45
1	AA	189	A	N3-C4	8.88	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	612	C	C2-O2	-8.88	1.16	1.24
1	AA	1050	G	C2-N3	8.88	1.39	1.32
26	BB	655	A	O3'-P	8.88	1.71	1.61
3	AC	37	G	N7-C5	-8.88	1.33	1.39
26	BB	1505	A	N3-C4	8.88	1.40	1.34
1	AA	1383	C	C4-C5	8.88	1.50	1.43
26	BB	2444	G	C5'-C4'	8.88	1.62	1.51
1	AA	823	C	N1-C6	8.88	1.42	1.37
25	BA	87	U	N1-C2	8.88	1.46	1.38
26	BB	155	A	N3-C4	8.88	1.40	1.34
1	AA	1463	U	C2-N3	8.87	1.44	1.37
1	AA	336	A	C6-N1	8.87	1.41	1.35
1	AA	544	G	C8-N7	-8.87	1.25	1.30
1	AA	926	G	N3-C4	8.87	1.41	1.35
26	BB	1237	A	C5-C6	8.87	1.49	1.41
26	BB	1501	G	N3-C4	8.87	1.41	1.35
26	BB	1056	G	C6-N1	-8.87	1.33	1.39
26	BB	1219	U	N3-C4	8.87	1.46	1.38
26	BB	796	C	P-O5'	8.86	1.68	1.59
26	BB	2001	C	P-O5'	8.86	1.68	1.59
1	AA	159	G	C2-N3	8.86	1.39	1.32
26	BB	470	A	N3-C4	8.85	1.40	1.34
26	BB	683	U	N1-C2	8.85	1.46	1.38
26	BB	2118	U	C5'-C4'	8.85	1.61	1.51
26	BB	291	G	N9-C4	-8.85	1.30	1.38
1	AA	801	U	P-O5'	8.85	1.68	1.59
26	BB	1198	U	O3'-P	8.85	1.71	1.61
26	BB	1202	G	C8-N7	8.85	1.36	1.30
26	BB	2684	U	C3'-C2'	8.85	1.62	1.52
26	BB	339	U	C2-N3	8.84	1.44	1.37
1	AA	808	C	C5'-C4'	8.84	1.61	1.51
26	BB	599	A	P-O5'	8.84	1.68	1.59
1	AA	1289	A	N3-C4	8.84	1.40	1.34
1	AA	1347	G	C8-N7	-8.84	1.25	1.30
26	BB	393	C	N1-C6	-8.84	1.31	1.37
1	AA	442	G	C5-C4	-8.84	1.32	1.38
1	AA	351	G	C6-N1	8.83	1.45	1.39
26	BB	130	C	N1-C6	8.83	1.42	1.37
26	BB	2801	G	N7-C5	8.83	1.44	1.39
26	BB	2553	G	N1-C2	8.83	1.44	1.37
1	AA	59	A	O4'-C1'	8.83	1.53	1.41
1	AA	1089	G	C2-N3	8.83	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	66	C	P-O5'	8.83	1.68	1.59
26	BB	2714	G	N1-C2	8.83	1.44	1.37
1	AA	177	G	N7-C5	-8.83	1.33	1.39
1	AA	747	A	P-O5'	8.83	1.68	1.59
26	BB	306	U	N3-C4	8.82	1.46	1.38
26	BB	717	C	N1-C6	8.82	1.42	1.37
26	BB	1608	A	N3-C4	8.82	1.40	1.34
26	BB	1471	G	C6-N1	-8.82	1.33	1.39
26	BB	581	C	N3-C4	8.82	1.40	1.33
26	BB	611	C	P-O5'	8.81	1.68	1.59
2	AB	3	G	C2-N3	8.81	1.39	1.32
26	BB	2255	G	N3-C4	8.81	1.41	1.35
26	BB	2058	A	N3-C4	8.81	1.40	1.34
26	BB	1809	A	C8-N7	8.81	1.37	1.31
26	BB	2523	G	P-O5'	8.80	1.68	1.59
1	AA	188	C	O3'-P	8.80	1.71	1.61
1	AA	1471	U	P-O5'	8.80	1.68	1.59
1	AA	217	C	O3'-P	8.80	1.71	1.61
1	AA	318	G	N9-C8	8.80	1.44	1.37
26	BB	1032	A	N3-C4	8.80	1.40	1.34
26	BB	1657	U	C2-N3	8.80	1.44	1.37
26	BB	1718	G	C4'-O4'	-8.79	1.34	1.45
26	BB	836	G	O3'-P	-8.79	1.50	1.61
26	BB	2383	G	P-O5'	8.79	1.68	1.59
26	BB	2587	A	C6-N1	-8.79	1.29	1.35
1	AA	609	A	N3-C4	8.78	1.40	1.34
25	BA	33	G	N1-C2	8.78	1.44	1.37
26	BB	489	G	C8-N7	-8.78	1.25	1.30
26	BB	599	A	C5-C6	8.78	1.49	1.41
1	AA	844	G	C5-C4	8.78	1.44	1.38
26	BB	1283	G	C8-N7	8.77	1.36	1.30
26	BB	1789	A	N9-C4	8.77	1.43	1.37
1	AA	836	G	P-O5'	8.77	1.68	1.59
1	AA	1442	G	N9-C4	-8.77	1.30	1.38
1	AA	1282	C	C4'-O4'	-8.77	1.34	1.45
26	BB	1893	C	C5'-C4'	8.77	1.61	1.51
26	BB	2380	C	N1-C6	8.77	1.42	1.37
26	BB	2539	C	C5'-C4'	8.77	1.61	1.51
26	BB	178	G	N7-C5	8.76	1.44	1.39
1	AA	324	G	N9-C8	8.76	1.44	1.37
1	AA	709	U	C2-N3	8.76	1.43	1.37
26	BB	1714	U	C2-N3	8.75	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	831	A	C6-N1	-8.75	1.29	1.35
1	AA	682	G	N7-C5	8.75	1.44	1.39
1	AA	1366	C	O3'-P	8.75	1.71	1.61
26	BB	535	G	N3-C4	8.74	1.41	1.35
26	BB	1300	G	C5'-C4'	8.74	1.61	1.51
26	BB	1460	U	C2-O2	8.74	1.30	1.22
1	AA	661	G	C8-N7	-8.74	1.25	1.30
26	BB	1491	G	C5'-C4'	8.74	1.61	1.51
26	BB	2776	A	C6-N1	8.73	1.41	1.35
26	BB	2368	C	P-O5'	8.73	1.68	1.59
1	AA	1033	G	C8-N7	8.73	1.36	1.30
1	AA	1224	U	C2-N3	8.73	1.43	1.37
26	BB	813	U	O4'-C1'	8.73	1.53	1.41
26	BB	1114	C	P-O5'	8.73	1.68	1.59
26	BB	488	G	C8-N7	-8.73	1.25	1.30
1	AA	900	A	N9-C4	8.72	1.43	1.37
2	AB	35	C	C5-C6	8.72	1.41	1.34
26	BB	863	A	N9-C4	8.72	1.43	1.37
1	AA	948	C	P-O5'	8.72	1.68	1.59
1	AA	1329	A	C5'-C4'	8.72	1.61	1.51
1	AA	515	G	C8-N7	-8.71	1.25	1.30
26	BB	2270	A	N9-C4	8.72	1.43	1.37
26	BB	1560	G	N1-C2	8.71	1.44	1.37
1	AA	373	A	C8-N7	-8.71	1.25	1.31
26	BB	1105	U	C2-N3	8.71	1.43	1.37
26	BB	1274	A	O4'-C1'	8.71	1.52	1.41
1	AA	121	U	C2-N3	8.71	1.43	1.37
26	BB	1350	C	C5'-C4'	8.70	1.61	1.51
26	BB	683	U	C4'-C3'	-8.70	1.43	1.53
26	BB	939	G	C6-N1	-8.70	1.33	1.39
26	BB	1933	G	N3-C4	8.70	1.41	1.35
26	BB	2389	G	C6-N1	8.70	1.45	1.39
1	AA	626	G	C6-N1	8.70	1.45	1.39
1	AA	686	U	C4'-O4'	-8.70	1.34	1.45
25	BA	40	U	P-O5'	8.70	1.68	1.59
26	BB	2	G	C5-C6	8.70	1.51	1.42
26	BB	2164	C	C3'-C2'	-8.70	1.43	1.52
26	BB	2188	U	C2-N3	8.70	1.43	1.37
26	BB	2553	G	C5-C6	8.70	1.51	1.42
4	AD	20	G	C2-N3	8.70	1.39	1.32
26	BB	1345	C	N1-C6	8.69	1.42	1.37
1	AA	1384	C	P-O5'	8.69	1.68	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	35	C	C2-N3	8.69	1.42	1.35
26	BB	894	U	O3'-P	8.69	1.71	1.61
1	AA	625	U	C2-N3	8.68	1.43	1.37
25	BA	108	A	N7-C5	-8.68	1.34	1.39
1	AA	757	U	C2-N3	8.68	1.43	1.37
1	AA	197	A	C5-C4	-8.68	1.32	1.38
1	AA	1061	G	N3-C4	8.68	1.41	1.35
26	BB	1203	U	C2-N3	-8.68	1.31	1.37
1	AA	430	A	C4'-O4'	-8.68	1.34	1.45
25	BA	29	A	N7-C5	-8.68	1.34	1.39
26	BB	2799	A	N7-C5	8.68	1.44	1.39
1	AA	451	A	N9-C4	8.68	1.43	1.37
3	AC	39	U	P-O5'	8.68	1.68	1.59
1	AA	603	U	C4-O4	-8.67	1.16	1.23
1	AA	1115	U	C4-C5	8.67	1.51	1.43
1	AA	206	C	N1-C6	8.67	1.42	1.37
26	BB	2671	G	N7-C5	-8.67	1.34	1.39
26	BB	1090	A	N1-C2	-8.67	1.26	1.34
26	BB	2409	G	N1-C2	8.67	1.44	1.37
26	BB	2633	G	C2-N3	8.67	1.39	1.32
26	BB	2875	C	C5-C6	8.67	1.41	1.34
26	BB	2294	G	P-O5'	8.66	1.68	1.59
26	BB	385	C	N1-C6	8.65	1.42	1.37
26	BB	2485	G	N9-C4	8.65	1.44	1.38
1	AA	579	A	N9-C8	8.65	1.44	1.37
26	BB	717	C	N3-C4	8.65	1.40	1.33
26	BB	1576	U	C2-N3	8.65	1.43	1.37
26	BB	2861	U	N1-C2	8.65	1.46	1.38
1	AA	1438	G	C2-N3	8.65	1.39	1.32
1	AA	31	G	C4'-O4'	-8.65	1.34	1.45
1	AA	454	G	C5'-C4'	8.65	1.61	1.51
1	AA	669	G	N3-C4	8.64	1.41	1.35
1	AA	1494	G	C8-N7	-8.64	1.25	1.30
26	BB	1903	G	C8-N7	8.64	1.36	1.30
1	AA	1502	A	N3-C4	8.64	1.40	1.34
26	BB	1770	G	N3-C4	8.64	1.41	1.35
4	AD	16	C	C2-N3	8.63	1.42	1.35
26	BB	1348	C	C2-N3	8.63	1.42	1.35
26	BB	1495	A	C5-C4	-8.63	1.32	1.38
1	AA	1047	G	C6-N1	-8.63	1.33	1.39
26	BB	632	A	N3-C4	8.63	1.40	1.34
1	AA	1324	A	P-O5'	8.63	1.68	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1409	U	C4'-C3'	8.63	1.62	1.53
26	BB	1511	G	C6-O6	-8.63	1.16	1.24
26	BB	1739	A	P-O5'	8.63	1.68	1.59
26	BB	2102	G	N1-C2	8.63	1.44	1.37
26	BB	267	C	P-O5'	8.62	1.68	1.59
26	BB	1155	A	N3-C4	8.62	1.40	1.34
26	BB	1642	G	C2-N3	8.62	1.39	1.32
26	BB	2083	G	C8-N7	-8.62	1.25	1.30
25	BA	28	C	N1-C6	8.61	1.42	1.37
26	BB	729	G	C6-N1	8.61	1.45	1.39
26	BB	2003	A	C5'-C4'	8.61	1.61	1.51
26	BB	1971	U	C3'-C2'	8.61	1.62	1.52
1	AA	953	G	N3-C4	8.61	1.41	1.35
26	BB	1166	G	C2-N3	8.61	1.39	1.32
26	BB	2424	C	C5-C6	8.61	1.41	1.34
1	AA	901	A	P-O5'	8.61	1.68	1.59
26	BB	1228	G	N7-C5	8.60	1.44	1.39
26	BB	1621	U	P-O5'	8.60	1.68	1.59
1	AA	1153	G	C8-N7	-8.60	1.25	1.30
26	BB	2735	G	N3-C4	8.60	1.41	1.35
1	AA	1522	U	P-O5'	8.60	1.68	1.59
26	BB	2122	U	O3'-P	8.60	1.71	1.61
26	BB	255	A	C2-N3	8.59	1.41	1.33
26	BB	457	A	C6-N1	-8.59	1.29	1.35
1	AA	706	A	N3-C4	8.59	1.40	1.34
26	BB	1474	U	N1-C2	8.59	1.46	1.38
26	BB	551	G	P-O5'	8.59	1.68	1.59
26	BB	1126	A	N9-C8	8.59	1.44	1.37
26	BB	1250	G	N1-C2	8.59	1.44	1.37
26	BB	2202	U	C5'-C4'	8.59	1.61	1.51
26	BB	2512	C	N1-C2	8.59	1.48	1.40
26	BB	2737	G	C2-N3	8.59	1.39	1.32
26	BB	965	C	N3-C4	8.59	1.40	1.33
26	BB	1493	C	N3-C4	8.59	1.40	1.33
4	AD	32	G	C8-N7	-8.59	1.25	1.30
26	BB	1547	C	N3-C4	8.59	1.40	1.33
1	AA	703	G	C8-N7	8.58	1.36	1.30
1	AA	874	G	N7-C5	8.58	1.44	1.39
1	AA	917	G	N1-C2	8.58	1.44	1.37
26	BB	1814	G	N1-C2	8.58	1.44	1.37
1	AA	432	A	C5-C6	8.58	1.48	1.41
26	BB	2194	U	O3'-P	8.58	1.71	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1168	U	C2'-O2'	8.58	1.52	1.41
26	BB	2396	G	C2-N3	8.57	1.39	1.32
26	BB	510	C	P-O5'	8.57	1.68	1.59
26	BB	1190	G	N7-C5	8.57	1.44	1.39
4	AD	28	U	C2-N3	8.57	1.43	1.37
26	BB	2511	U	P-O5'	8.57	1.68	1.59
26	BB	1441	G	C2-N3	8.56	1.39	1.32
1	AA	435	A	C6-N1	8.56	1.41	1.35
26	BB	2316	G	N3-C4	8.56	1.41	1.35
26	BB	798	G	N3-C4	8.56	1.41	1.35
26	BB	847	U	P-O5'	8.55	1.68	1.59
26	BB	1456	G	N1-C2	8.55	1.44	1.37
1	AA	902	G	N7-C5	8.55	1.44	1.39
1	AA	1475	G	N9-C8	-8.55	1.31	1.37
26	BB	294	A	P-O5'	8.55	1.68	1.59
26	BB	1059	G	C6-O6	-8.55	1.16	1.24
26	BB	1814	G	C5-C4	-8.55	1.32	1.38
26	BB	2312	U	C4'-O4'	-8.55	1.34	1.45
26	BB	1599	U	P-O5'	-8.55	1.51	1.59
26	BB	215	G	N3-C4	8.55	1.41	1.35
26	BB	2659	G	N9-C8	-8.55	1.31	1.37
26	BB	999	U	C4'-C3'	8.54	1.62	1.53
26	BB	1216	G	C4'-O4'	-8.54	1.34	1.45
26	BB	979	A	P-O5'	8.54	1.68	1.59
26	BB	1147	A	N9-C8	-8.54	1.30	1.37
26	BB	730	A	N3-C4	8.54	1.40	1.34
26	BB	2592	G	O3'-P	8.54	1.71	1.61
26	BB	2790	U	P-O5'	8.54	1.68	1.59
26	BB	1511	G	P-O5'	8.53	1.68	1.59
1	AA	1457	G	C2-N3	8.53	1.39	1.32
26	BB	2084	C	N3-C4	8.53	1.40	1.33
1	AA	1305	G	N1-C2	8.52	1.44	1.37
25	BA	58	A	P-O5'	8.52	1.68	1.59
26	BB	111	A	N3-C4	8.52	1.40	1.34
3	AC	50	U	C4'-O4'	-8.52	1.34	1.45
1	AA	24	U	C3'-C2'	8.52	1.62	1.52
1	AA	1528	U	C4-C5	8.52	1.51	1.43
26	BB	1093	G	P-O5'	8.52	1.68	1.59
26	BB	1174	U	C2-N3	8.52	1.43	1.37
26	BB	1358	G	N9-C8	-8.52	1.31	1.37
26	BB	2344	U	N1-C6	8.52	1.45	1.38
26	BB	2887	A	O3'-P	8.52	1.71	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	38	G	N7-C5	8.51	1.44	1.39
26	BB	1706	C	P-O5'	8.51	1.68	1.59
26	BB	1717	A	N9-C4	-8.51	1.32	1.37
26	BB	2533	U	P-O5'	8.51	1.68	1.59
3	AC	15	G	C6-N1	8.51	1.45	1.39
3	AC	46	C	P-O5'	8.51	1.68	1.59
26	BB	1368	G	O3'-P	8.51	1.71	1.61
1	AA	321	A	C4'-C3'	-8.50	1.43	1.53
26	BB	2895	G	N3-C4	8.50	1.41	1.35
1	AA	815	A	P-O5'	8.50	1.68	1.59
26	BB	406	G	C2'-C1'	-8.50	1.44	1.53
26	BB	2083	G	N7-C5	8.50	1.44	1.39
26	BB	409	G	C2-N3	8.50	1.39	1.32
26	BB	700	G	C3'-C2'	8.50	1.62	1.52
26	BB	1965	C	N1-C6	-8.50	1.32	1.37
26	BB	2290	G	C8-N7	8.50	1.36	1.30
1	AA	612	C	C4'-O4'	-8.50	1.34	1.45
1	AA	1464	U	N1-C2	8.50	1.46	1.38
26	BB	2681	C	N1-C6	8.50	1.42	1.37
1	AA	227	G	N7-C5	8.49	1.44	1.39
1	AA	1343	G	C6-N1	8.49	1.45	1.39
1	AA	1455	G	C5'-C4'	8.49	1.61	1.51
1	AA	117	G	C6-N1	8.49	1.45	1.39
1	AA	638	U	C4-C5	8.49	1.51	1.43
1	AA	1306	A	C5'-C4'	8.49	1.61	1.51
26	BB	1129	A	N3-C4	8.49	1.40	1.34
26	BB	656	G	P-O5'	8.48	1.68	1.59
26	BB	1823	G	N7-C5	-8.48	1.34	1.39
26	BB	2564	A	C6-N6	8.48	1.40	1.33
26	BB	2519	U	C2-N3	8.48	1.43	1.37
26	BB	1311	G	C6-N1	8.48	1.45	1.39
26	BB	782	A	N3-C4	8.48	1.40	1.34
1	AA	357	G	N3-C4	8.48	1.41	1.35
1	AA	965	U	N1-C2	8.48	1.46	1.38
1	AA	1015	G	P-O5'	8.48	1.68	1.59
1	AA	1159	U	C2-N3	8.48	1.43	1.37
26	BB	1591	A	C3'-C2'	8.48	1.62	1.52
25	BA	26	C	C2-N3	8.48	1.42	1.35
26	BB	2387	U	C4'-O4'	-8.48	1.34	1.45
26	BB	2846	G	N9-C8	-8.48	1.31	1.37
1	AA	1314	C	C3'-C2'	8.47	1.62	1.52
26	BB	1575	C	C2'-C1'	8.47	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2210	U	C2-N3	8.47	1.43	1.37
1	AA	805	C	N1-C6	-8.47	1.32	1.37
26	BB	1890	A	N9-C4	8.47	1.43	1.37
26	BB	2138	G	C2'-C1'	8.47	1.62	1.53
25	BA	85	G	N1-C2	8.47	1.44	1.37
26	BB	1515	A	C6-N1	8.47	1.41	1.35
26	BB	1723	G	C6-N1	-8.46	1.33	1.39
1	AA	231	U	C2-N3	8.46	1.43	1.37
1	AA	721	G	N3-C4	8.46	1.41	1.35
1	AA	1309	G	N7-C5	8.46	1.44	1.39
25	BA	4	C	C2-O2	-8.46	1.16	1.24
26	BB	2292	U	C2-N3	8.46	1.43	1.37
26	BB	2518	A	C5'-C4'	8.46	1.61	1.51
26	BB	936	A	C8-N7	-8.46	1.25	1.31
26	BB	472	A	N7-C5	8.46	1.44	1.39
26	BB	620	G	C2-N3	8.46	1.39	1.32
1	AA	664	G	N7-C5	8.45	1.44	1.39
26	BB	1368	G	P-O5'	8.46	1.68	1.59
25	BA	9	G	C8-N7	8.45	1.36	1.30
1	AA	615	G	C6-N1	8.45	1.45	1.39
26	BB	2533	U	C2-O2	8.45	1.29	1.22
1	AA	1030	U	C5-C6	8.45	1.41	1.34
1	AA	835	U	O3'-P	8.45	1.71	1.61
1	AA	362	G	N7-C5	8.44	1.44	1.39
1	AA	653	U	C4'-O4'	-8.44	1.34	1.45
1	AA	1220	G	N7-C5	8.44	1.44	1.39
1	AA	1520	C	N1-C6	8.44	1.42	1.37
26	BB	1123	C	C2-N3	8.44	1.42	1.35
26	BB	2154	A	N7-C5	8.44	1.44	1.39
1	AA	552	U	O3'-P	8.44	1.71	1.61
1	AA	177	G	N3-C4	-8.44	1.29	1.35
26	BB	1739	A	O3'-P	8.44	1.71	1.61
26	BB	1830	C	N3-C4	8.43	1.39	1.33
26	BB	260	G	N9-C8	8.43	1.43	1.37
26	BB	2276	G	N9-C8	-8.43	1.31	1.37
1	AA	752	G	N9-C4	-8.43	1.31	1.38
26	BB	176	A	N9-C8	8.43	1.44	1.37
26	BB	516	C	N1-C6	8.43	1.42	1.37
26	BB	1272	A	P-O5'	8.43	1.68	1.59
26	BB	1854	A	C3'-C2'	-8.43	1.43	1.52
1	AA	964	A	C6-N1	8.43	1.41	1.35
1	AA	728	A	N9-C4	8.42	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1498	C	C4'-O4'	-8.42	1.34	1.45
4	AD	54	G	N3-C4	8.42	1.41	1.35
25	BA	64	G	N3-C4	8.42	1.41	1.35
1	AA	1038	C	C4-N4	-8.42	1.26	1.33
26	BB	775	G	C5-C4	8.42	1.44	1.38
1	AA	193	C	C2'-C1'	8.42	1.62	1.53
1	AA	985	C	C5-C6	8.42	1.41	1.34
26	BB	663	G	C5-C4	-8.42	1.32	1.38
26	BB	941	A	N3-C4	8.42	1.40	1.34
26	BB	2576	G	O4'-C1'	8.42	1.52	1.41
26	BB	2862	G	C3'-O3'	-8.42	1.30	1.42
1	AA	485	U	N1-C2	8.42	1.46	1.38
1	AA	1021	A	C5-C4	-8.42	1.32	1.38
1	AA	91	U	C2-N3	8.42	1.43	1.37
26	BB	1281	G	C2'-C1'	-8.41	1.44	1.53
1	AA	488	C	C2-N3	8.41	1.42	1.35
2	AB	14	A	N3-C4	8.41	1.39	1.34
26	BB	2029	G	C2-N3	8.41	1.39	1.32
1	AA	1490	U	P-O5'	8.41	1.68	1.59
26	BB	2071	A	N3-C4	8.41	1.39	1.34
4	AD	3	C	C2-N3	8.40	1.42	1.35
26	BB	80	G	N1-C2	8.40	1.44	1.37
1	AA	1058	G	C2-N3	8.39	1.39	1.32
26	BB	1826	G	C6-N1	-8.39	1.33	1.39
26	BB	1882	U	C4'-C3'	-8.39	1.44	1.53
1	AA	1222	G	N9-C8	-8.39	1.31	1.37
26	BB	1111	A	C6-N6	-8.39	1.27	1.33
26	BB	1136	G	N3-C4	8.39	1.41	1.35
1	AA	278	G	N3-C4	8.39	1.41	1.35
26	BB	833	A	O4'-C1'	8.39	1.52	1.41
26	BB	1230	A	N3-C4	8.38	1.39	1.34
26	BB	1562	U	P-O5'	8.38	1.68	1.59
26	BB	2893	A	C6-N6	8.38	1.40	1.33
26	BB	1980	G	P-O5'	8.38	1.68	1.59
26	BB	2241	A	N3-C4	8.38	1.39	1.34
1	AA	1104	G	C2-N3	8.38	1.39	1.32
26	BB	259	G	C8-N7	-8.38	1.25	1.30
26	BB	830	G	N7-C5	8.37	1.44	1.39
25	BA	23	G	C8-N7	-8.37	1.25	1.30
1	AA	773	G	N9-C8	8.37	1.43	1.37
26	BB	406	G	N9-C8	-8.37	1.31	1.37
26	BB	1005	C	N1-C6	8.37	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	92	U	N1-C2	8.37	1.46	1.38
26	BB	94	A	N3-C4	8.37	1.39	1.34
26	BB	1429	G	C8-N7	8.37	1.35	1.30
1	AA	1065	U	P-O5'	8.36	1.68	1.59
26	BB	1681	G	C2-N3	8.36	1.39	1.32
1	AA	1447	A	N9-C4	8.36	1.42	1.37
2	AB	51	G	N9-C8	8.36	1.43	1.37
1	AA	769	G	C2'-C1'	8.36	1.62	1.53
26	BB	634	C	N1-C6	8.36	1.42	1.37
26	BB	1842	G	C2-N3	8.36	1.39	1.32
26	BB	1893	C	C2-O2	-8.36	1.17	1.24
26	BB	632	A	N7-C5	8.36	1.44	1.39
26	BB	2270	A	C4'-O4'	-8.36	1.34	1.45
26	BB	1768	C	N3-C4	8.36	1.39	1.33
1	AA	1507	A	C6-N6	8.35	1.40	1.33
1	AA	10	A	C5'-C4'	8.35	1.61	1.51
26	BB	1331	G	N9-C8	8.35	1.43	1.37
26	BB	1531	C	N1-C6	8.35	1.42	1.37
26	BB	860	U	O3'-P	8.35	1.71	1.61
1	AA	582	C	P-O5'	8.35	1.68	1.59
26	BB	309	A	C4'-O4'	-8.35	1.34	1.45
1	AA	828	U	C5-C6	8.35	1.41	1.34
26	BB	13	A	P-O5'	8.35	1.68	1.59
26	BB	317	G	C6-N1	8.35	1.45	1.39
1	AA	25	C	N1-C6	8.34	1.42	1.37
1	AA	141	G	C6-N1	8.34	1.45	1.39
1	AA	339	C	C4-C5	8.34	1.49	1.43
1	AA	563	A	N3-C4	8.34	1.39	1.34
1	AA	1221	G	P-O5'	8.34	1.68	1.59
1	AA	1301	U	N1-C6	-8.34	1.30	1.38
3	AC	40	G	N1-C2	8.34	1.44	1.37
26	BB	1920	C	C2-N3	8.34	1.42	1.35
26	BB	1314	C	O3'-P	8.34	1.71	1.61
26	BB	39	G	C2-N3	8.34	1.39	1.32
26	BB	61	C	N3-C4	8.34	1.39	1.33
26	BB	270	A	N3-C4	8.34	1.39	1.34
26	BB	651	G	N9-C8	-8.34	1.32	1.37
26	BB	1186	G	C6-N1	8.34	1.45	1.39
26	BB	1363	C	C4'-O4'	-8.34	1.34	1.45
26	BB	1804	C	C4'-C3'	-8.34	1.44	1.53
26	BB	1968	G	C2-N3	8.34	1.39	1.32
1	AA	896	C	O3'-P	8.33	1.71	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	844	A	N7-C5	8.33	1.44	1.39
26	BB	1082	U	C4-C5	8.33	1.51	1.43
1	AA	184	G	P-O5'	8.33	1.68	1.59
1	AA	845	A	N7-C5	-8.33	1.34	1.39
1	AA	1474	U	C5-C6	8.33	1.41	1.34
2	AB	58	A	C8-N7	-8.33	1.25	1.31
26	BB	2535	G	N3-C4	8.33	1.41	1.35
1	AA	926	G	P-O5'	8.32	1.68	1.59
26	BB	914	G	N7-C5	8.32	1.44	1.39
26	BB	2873	A	C8-N7	-8.32	1.25	1.31
1	AA	594	U	N1-C2	8.32	1.46	1.38
26	BB	1651	G	C8-N7	-8.32	1.25	1.30
26	BB	2076	U	C2-N3	8.32	1.43	1.37
26	BB	470	A	C6-N6	8.32	1.40	1.33
1	AA	508	U	N1-C2	8.31	1.46	1.38
26	BB	115	C	C4'-O4'	-8.31	1.34	1.45
26	BB	389	G	N7-C5	-8.31	1.34	1.39
26	BB	504	A	N9-C4	8.31	1.42	1.37
26	BB	706	A	C4'-O4'	-8.31	1.34	1.45
26	BB	1090	A	N3-C4	8.31	1.39	1.34
26	BB	623	C	N1-C6	8.31	1.42	1.37
26	BB	967	U	N1-C2	8.31	1.46	1.38
26	BB	2633	G	P-O5'	8.31	1.68	1.59
1	AA	109	A	N3-C4	8.30	1.39	1.34
26	BB	2369	A	C2'-C1'	8.30	1.62	1.53
26	BB	2397	G	N1-C2	8.30	1.44	1.37
1	AA	299	G	N9-C8	-8.30	1.32	1.37
1	AA	468	A	C5'-C4'	8.30	1.61	1.51
1	AA	535	A	N7-C5	8.30	1.44	1.39
26	BB	588	U	P-O5'	8.30	1.68	1.59
26	BB	2027	G	C5-C6	8.30	1.50	1.42
1	AA	51	A	N7-C5	-8.30	1.34	1.39
26	BB	1225	G	C6-N1	8.30	1.45	1.39
26	BB	2680	U	C2-N3	8.30	1.43	1.37
26	BB	565	C	N1-C6	8.29	1.42	1.37
1	AA	684	U	P-O5'	8.29	1.68	1.59
1	AA	924	C	N3-C4	8.29	1.39	1.33
1	AA	1003	G	N7-C5	8.29	1.44	1.39
26	BB	539	G	C2'-C1'	-8.29	1.44	1.53
26	BB	825	A	C6-N6	8.29	1.40	1.33
26	BB	2435	A	N3-C4	8.29	1.39	1.34
1	AA	26	A	N3-C4	8.28	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2015	A	N3-C4	8.28	1.39	1.34
1	AA	570	G	C8-N7	-8.28	1.25	1.30
26	BB	102	U	C4-C5	8.28	1.51	1.43
1	AA	282	A	P-O5'	8.28	1.68	1.59
1	AA	405	U	C2-N3	8.28	1.43	1.37
1	AA	479	U	P-O5'	8.28	1.68	1.59
1	AA	1088	G	N3-C4	8.28	1.41	1.35
26	BB	2665	A	C8-N7	-8.28	1.25	1.31
26	BB	1749	A	N7-C5	-8.27	1.34	1.39
26	BB	1933	G	N9-C8	8.27	1.43	1.37
26	BB	2079	U	P-O5'	8.27	1.68	1.59
26	BB	1239	G	C2'-C1'	-8.27	1.44	1.53
1	AA	424	G	N3-C4	8.27	1.41	1.35
26	BB	690	G	N7-C5	8.27	1.44	1.39
26	BB	1457	U	P-O5'	8.27	1.68	1.59
25	BA	119	A	N3-C4	8.27	1.39	1.34
26	BB	725	G	C6-O6	-8.27	1.16	1.24
26	BB	1904	G	N1-C2	8.27	1.44	1.37
1	AA	75	G	C5-C4	-8.26	1.32	1.38
26	BB	2597	G	N7-C5	8.26	1.44	1.39
1	AA	343	U	P-O5'	8.26	1.68	1.59
26	BB	166	U	C4-C5	8.26	1.50	1.43
26	BB	1906	G	N7-C5	8.26	1.44	1.39
1	AA	656	G	N3-C4	8.26	1.41	1.35
26	BB	48	G	P-O5'	8.26	1.68	1.59
26	BB	1552	A	C5-C4	-8.26	1.32	1.38
1	AA	1206	G	N3-C4	8.26	1.41	1.35
1	AA	936	C	P-O5'	8.25	1.68	1.59
1	AA	1267	C	C4-C5	8.25	1.49	1.43
26	BB	637	A	C6-N6	8.25	1.40	1.33
26	BB	1131	G	N7-C5	-8.25	1.34	1.39
26	BB	934	U	C2-N3	8.25	1.43	1.37
26	BB	1221	C	P-O5'	8.25	1.68	1.59
26	BB	2657	A	C8-N7	-8.25	1.25	1.31
26	BB	182	A	P-O5'	-8.25	1.51	1.59
26	BB	678	C	C2-N3	8.25	1.42	1.35
26	BB	1444	G	C5-C4	-8.25	1.32	1.38
26	BB	2743	U	C2'-C1'	8.24	1.62	1.53
25	BA	86	G	P-O5'	8.24	1.68	1.59
26	BB	969	G	C5-C6	8.24	1.50	1.42
26	BB	1240	U	O3'-P	8.24	1.71	1.61
26	BB	1445	G	C2-N3	8.24	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1610	A	N9-C4	8.24	1.42	1.37
1	AA	1347	G	N3-C4	8.24	1.41	1.35
26	BB	638	G	C2-N3	8.24	1.39	1.32
26	BB	1430	G	O3'-P	8.24	1.71	1.61
26	BB	1846	G	C6-N1	8.24	1.45	1.39
3	AC	18	A	C5-C4	-8.23	1.32	1.38
26	BB	1142	A	N3-C4	8.23	1.39	1.34
25	BA	8	C	C5-C6	8.23	1.41	1.34
26	BB	1137	G	C6-N1	8.23	1.45	1.39
26	BB	1489	C	C5'-C4'	8.23	1.61	1.51
26	BB	2483	C	C5-C6	8.23	1.41	1.34
26	BB	192	C	O3'-P	-8.23	1.51	1.61
26	BB	582	A	N1-C2	8.23	1.41	1.34
26	BB	599	A	C6-N6	8.23	1.40	1.33
26	BB	335	C	P-O5'	-8.23	1.51	1.59
26	BB	1293	C	P-O5'	8.22	1.68	1.59
26	BB	2361	G	C4'-C3'	8.22	1.62	1.53
26	BB	1877	A	N9-C8	8.22	1.44	1.37
26	BB	2606	C	C2-N3	8.22	1.42	1.35
26	BB	37	C	N1-C6	8.22	1.42	1.37
26	BB	1317	G	C8-N7	-8.22	1.26	1.30
26	BB	1599	U	N1-C2	8.22	1.46	1.38
26	BB	4	U	N3-C4	8.22	1.45	1.38
26	BB	333	G	C5'-C4'	8.22	1.61	1.51
26	BB	2156	G	P-O5'	8.22	1.68	1.59
26	BB	2534	A	N9-C4	8.22	1.42	1.37
1	AA	365	U	C5-C6	8.22	1.41	1.34
3	AC	55	A	N3-C4	8.21	1.39	1.34
26	BB	245	G	C8-N7	-8.21	1.26	1.30
1	AA	790	A	N7-C5	-8.21	1.34	1.39
1	AA	1443	C	N1-C6	8.21	1.42	1.37
26	BB	1755	A	N7-C5	8.21	1.44	1.39
26	BB	2193	G	C2-N3	8.21	1.39	1.32
1	AA	630	A	C4'-O4'	-8.21	1.34	1.45
1	AA	662	U	C4-C5	8.21	1.50	1.43
26	BB	762	U	C4-O4	-8.21	1.17	1.23
26	BB	1546	G	C8-N7	8.21	1.35	1.30
1	AA	964	A	C8-N7	-8.21	1.25	1.31
1	AA	977	A	C6-N1	-8.21	1.29	1.35
26	BB	2662	A	N3-C4	8.21	1.39	1.34
26	BB	2839	G	N1-C2	8.20	1.44	1.37
1	AA	7	A	C8-N7	8.20	1.37	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	194	G	C6-O6	-8.20	1.16	1.24
26	BB	577	G	C5-C6	8.20	1.50	1.42
26	BB	1052	C	C5-C6	8.20	1.41	1.34
26	BB	1410	G	C2-N3	8.20	1.39	1.32
26	BB	451	U	P-O5'	8.20	1.68	1.59
26	BB	463	G	P-O5'	8.20	1.68	1.59
26	BB	1673	G	N7-C5	-8.20	1.34	1.39
1	AA	1139	G	C6-N1	8.20	1.45	1.39
26	BB	1045	C	N3-C4	8.19	1.39	1.33
26	BB	1886	U	P-O5'	8.19	1.68	1.59
1	AA	192	A	C8-N7	-8.19	1.25	1.31
1	AA	997	U	C4'-O4'	-8.19	1.34	1.45
26	BB	1158	C	N1-C6	8.19	1.42	1.37
1	AA	1417	G	C2-N3	8.19	1.39	1.32
26	BB	230	G	N7-C5	8.19	1.44	1.39
26	BB	1447	C	N3-C4	8.19	1.39	1.33
26	BB	2001	C	N3-C4	8.19	1.39	1.33
26	BB	998	C	N3-C4	8.19	1.39	1.33
26	BB	1079	C	N3-C4	-8.19	1.28	1.33
1	AA	861	G	N3-C4	8.19	1.41	1.35
26	BB	2327	A	P-O5'	8.19	1.68	1.59
26	BB	2005	A	N9-C4	8.18	1.42	1.37
26	BB	691	C	C4'-O4'	-8.18	1.34	1.45
26	BB	2346	A	O3'-P	-8.18	1.51	1.61
26	BB	173	A	N7-C5	8.18	1.44	1.39
1	AA	1422	G	C3'-C2'	-8.18	1.43	1.52
26	BB	2750	A	C8-N7	-8.18	1.25	1.31
1	AA	944	G	C2-N3	8.17	1.39	1.32
26	BB	1152	C	N3-C4	8.17	1.39	1.33
1	AA	444	G	C5'-C4'	8.17	1.61	1.51
1	AA	1102	A	N9-C4	-8.17	1.32	1.37
26	BB	386	G	C6-N1	-8.17	1.33	1.39
26	BB	663	G	C3'-C2'	8.17	1.61	1.52
26	BB	1187	G	C3'-C2'	-8.17	1.43	1.52
26	BB	1354	A	N3-C4	8.17	1.39	1.34
26	BB	1753	G	N3-C4	8.17	1.41	1.35
1	AA	987	G	N7-C5	8.16	1.44	1.39
26	BB	2229	U	C5-C6	8.16	1.41	1.34
26	BB	2736	A	P-O5'	8.16	1.68	1.59
26	BB	1555	G	C6-O6	-8.16	1.16	1.24
26	BB	1097	U	C4'-O4'	-8.16	1.34	1.45
1	AA	815	A	C6-N6	8.16	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1405	G	C2-N3	8.16	1.39	1.32
25	BA	69	G	N7-C5	8.16	1.44	1.39
26	BB	367	G	N9-C8	-8.16	1.32	1.37
26	BB	1087	G	C5'-C4'	8.16	1.61	1.51
26	BB	1423	G	C5'-C4'	8.16	1.61	1.51
1	AA	679	C	C2'-C1'	8.15	1.62	1.53
1	AA	1077	G	N3-C4	8.15	1.41	1.35
4	AD	15	G	C2-N3	8.15	1.39	1.32
25	BA	97	C	N1-C6	8.15	1.42	1.37
26	BB	2203	U	C4-C5	8.15	1.50	1.43
26	BB	1195	G	N7-C5	8.15	1.44	1.39
1	AA	838	G	N1-C2	8.15	1.44	1.37
26	BB	337	C	C4'-O4'	-8.15	1.34	1.45
26	BB	748	G	C2-N3	8.15	1.39	1.32
26	BB	2227	A	P-O5'	8.14	1.67	1.59
1	AA	1354	U	N3-C4	8.14	1.45	1.38
1	AA	1368	A	N3-C4	8.14	1.39	1.34
26	BB	357	C	P-O5'	8.14	1.67	1.59
26	BB	10	A	N3-C4	8.14	1.39	1.34
26	BB	686	U	N1-C2	8.14	1.45	1.38
26	BB	2365	G	N9-C8	-8.14	1.32	1.37
26	BB	2524	G	N7-C5	8.14	1.44	1.39
1	AA	1247	U	C4-O4	-8.14	1.17	1.23
3	AC	28	U	P-O5'	8.13	1.67	1.59
26	BB	520	G	C2-N3	8.13	1.39	1.32
26	BB	2295	C	C3'-C2'	8.13	1.61	1.52
1	AA	47	C	N1-C2	8.13	1.48	1.40
1	AA	276	G	C2-N3	8.13	1.39	1.32
26	BB	2161	C	N3-C4	-8.13	1.28	1.33
1	AA	122	G	C5-C4	-8.13	1.32	1.38
1	AA	546	A	P-O5'	8.13	1.67	1.59
26	BB	348	A	N7-C5	8.13	1.44	1.39
1	AA	1392	G	O3'-P	8.13	1.71	1.61
26	BB	809	G	C2-N3	8.13	1.39	1.32
1	AA	308	C	C4'-O4'	-8.13	1.34	1.45
26	BB	879	G	C2-N3	8.12	1.39	1.32
26	BB	2356	U	C4-C5	8.12	1.50	1.43
26	BB	2253	G	O3'-P	8.12	1.70	1.61
26	BB	132	G	N9-C8	-8.12	1.32	1.37
26	BB	1744	A	N9-C4	8.12	1.42	1.37
1	AA	1192	C	P-O5'	8.12	1.67	1.59
26	BB	1284	A	P-O5'	8.12	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1339	A	C3'-C2'	-8.12	1.43	1.52
1	AA	417	G	C2'-C1'	8.11	1.62	1.53
1	AA	836	G	C5-C6	8.12	1.50	1.42
26	BB	1625	C	N1-C2	8.12	1.48	1.40
26	BB	2191	A	N7-C5	-8.11	1.34	1.39
26	BB	2529	G	C6-N1	8.12	1.45	1.39
1	AA	100	G	N7-C5	-8.11	1.34	1.39
26	BB	944	C	C2-N3	8.11	1.42	1.35
26	BB	1572	A	C8-N7	-8.11	1.25	1.31
26	BB	2665	A	C6-N1	8.11	1.41	1.35
26	BB	654	A	N7-C5	8.10	1.44	1.39
26	BB	2447	G	N9-C4	8.10	1.44	1.38
1	AA	1280	A	N7-C5	-8.10	1.34	1.39
26	BB	209	C	P-O5'	8.10	1.67	1.59
26	BB	395	U	N1-C6	8.10	1.45	1.38
26	BB	424	G	P-O5'	8.10	1.67	1.59
26	BB	814	C	P-O5'	8.10	1.67	1.59
26	BB	2903	U	N1-C6	8.10	1.45	1.38
2	AB	58	A	N9-C4	-8.10	1.32	1.37
26	BB	1787	A	C6-N1	-8.10	1.29	1.35
1	AA	1506	U	C2-N3	8.09	1.43	1.37
25	BA	19	C	C5-C6	8.09	1.40	1.34
26	BB	128	C	N3-C4	8.09	1.39	1.33
26	BB	1418	G	N3-C4	-8.09	1.29	1.35
1	AA	119	A	C5-C4	-8.09	1.33	1.38
1	AA	265	G	C2-N3	8.09	1.39	1.32
1	AA	1225	A	N7-C5	-8.09	1.34	1.39
26	BB	778	G	N7-C5	8.09	1.44	1.39
26	BB	1073	A	C5-C4	-8.09	1.33	1.38
26	BB	1073	A	N3-C4	8.09	1.39	1.34
26	BB	1770	G	C5'-C4'	8.09	1.61	1.51
1	AA	40	C	P-O5'	8.09	1.67	1.59
1	AA	542	G	P-O5'	-8.09	1.51	1.59
26	BB	2216	G	P-O5'	8.09	1.67	1.59
1	AA	1418	A	C5-C4	-8.09	1.33	1.38
1	AA	1538	C	N1-C2	8.09	1.48	1.40
26	BB	445	C	N1-C6	8.09	1.42	1.37
26	BB	1928	A	P-O5'	8.09	1.67	1.59
26	BB	2007	U	O3'-P	8.09	1.70	1.61
1	AA	67	C	N1-C2	8.08	1.48	1.40
26	BB	2136	G	C8-N7	-8.08	1.26	1.30
1	AA	528	C	N1-C6	-8.08	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	687	A	C2'-O2'	-8.08	1.31	1.41
1	AA	778	G	N7-C5	8.08	1.44	1.39
1	AA	60	A	N9-C8	8.08	1.44	1.37
1	AA	1040	U	C2-N3	8.08	1.43	1.37
26	BB	933	A	C6-N1	8.08	1.41	1.35
26	BB	2722	G	N3-C4	8.08	1.41	1.35
26	BB	45	G	C4'-C3'	8.08	1.62	1.53
26	BB	1216	G	C2-N2	-8.08	1.26	1.34
26	BB	1831	G	C8-N7	-8.08	1.26	1.30
26	BB	2151	U	C5-C6	8.08	1.41	1.34
26	BB	2565	A	N3-C4	8.08	1.39	1.34
26	BB	1580	A	N9-C4	8.07	1.42	1.37
26	BB	2049	G	C5-C4	-8.07	1.32	1.38
26	BB	2509	G	C2'-O2'	8.07	1.52	1.41
26	BB	2551	C	N1-C6	-8.07	1.32	1.37
1	AA	1421	G	N3-C4	8.07	1.41	1.35
26	BB	18	U	C2-N3	8.07	1.43	1.37
26	BB	30	G	C6-N1	8.07	1.45	1.39
25	BA	95	U	C2-N3	8.07	1.43	1.37
26	BB	1371	G	C2-N3	8.07	1.39	1.32
26	BB	1508	A	C6-N1	8.07	1.41	1.35
26	BB	1715	G	C6-N1	8.07	1.45	1.39
1	AA	500	G	N9-C8	8.07	1.43	1.37
1	AA	1260	G	C2'-C1'	-8.07	1.44	1.53
26	BB	929	U	C3'-C2'	8.07	1.61	1.52
26	BB	1025	G	N9-C4	8.07	1.44	1.38
26	BB	2148	G	C2-N2	-8.07	1.26	1.34
1	AA	731	G	P-O5'	8.06	1.67	1.59
1	AA	813	U	P-O5'	8.06	1.67	1.59
26	BB	751	A	N9-C4	8.06	1.42	1.37
26	BB	757	G	C2'-C1'	8.06	1.62	1.53
26	BB	1759	A	N7-C5	8.06	1.44	1.39
26	BB	2428	G	N9-C4	-8.06	1.31	1.38
1	AA	6	G	N9-C8	8.06	1.43	1.37
26	BB	892	A	C5-C6	8.06	1.48	1.41
1	AA	923	A	C5-C6	8.06	1.48	1.41
1	AA	1401	G	N3-C4	-8.05	1.29	1.35
1	AA	507	C	C4-C5	8.05	1.49	1.43
26	BB	1381	G	P-O5'	8.05	1.67	1.59
1	AA	351	G	N1-C2	8.05	1.44	1.37
1	AA	581	G	P-O5'	8.05	1.67	1.59
1	AA	1297	G	C8-N7	8.05	1.35	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	962	G	C5-C4	-8.05	1.32	1.38
26	BB	1614	A	C5'-C4'	8.05	1.61	1.51
26	BB	1220	G	C8-N7	-8.05	1.26	1.30
26	BB	2241	A	C5-C4	-8.05	1.33	1.38
26	BB	795	C	N1-C6	8.04	1.42	1.37
26	BB	1688	U	C2-N3	8.04	1.43	1.37
26	BB	1907	G	C4'-C3'	8.04	1.61	1.53
26	BB	2577	A	C3'-C2'	8.04	1.61	1.52
1	AA	1184	G	C5-C4	-8.04	1.32	1.38
26	BB	1654	A	N9-C4	8.04	1.42	1.37
26	BB	1701	A	C6-N1	-8.04	1.29	1.35
1	AA	219	U	N3-C4	8.04	1.45	1.38
26	BB	2255	G	O3'-P	8.04	1.70	1.61
1	AA	1437	A	P-O5'	8.04	1.67	1.59
26	BB	2425	A	C5-C4	-8.04	1.33	1.38
26	BB	2765	A	N3-C4	8.04	1.39	1.34
1	AA	613	C	C4-C5	8.03	1.49	1.43
1	AA	1386	G	C5'-C4'	8.03	1.60	1.51
1	AA	1456	A	N9-C4	8.04	1.42	1.37
26	BB	455	C	C2-N3	8.03	1.42	1.35
26	BB	2220	U	N1-C2	8.04	1.45	1.38
1	AA	512	U	C5'-C4'	8.03	1.60	1.51
1	AA	568	G	N7-C5	-8.03	1.34	1.39
26	BB	1747	U	P-O5'	8.03	1.67	1.59
26	BB	2453	A	N7-C5	8.03	1.44	1.39
26	BB	2738	A	C5-C4	-8.03	1.33	1.38
1	AA	877	G	C8-N7	8.03	1.35	1.30
1	AA	1151	A	N7-C5	-8.03	1.34	1.39
1	AA	1176	A	N9-C4	8.03	1.42	1.37
3	AC	29	G	P-O5'	8.03	1.67	1.59
26	BB	804	A	N3-C4	8.03	1.39	1.34
25	BA	102	G	C6-N1	8.03	1.45	1.39
26	BB	630	G	N9-C8	8.03	1.43	1.37
26	BB	1888	G	C6-N1	8.03	1.45	1.39
26	BB	2579	C	P-O5'	8.03	1.67	1.59
1	AA	309	A	N3-C4	8.02	1.39	1.34
1	AA	1121	U	C4-C5	8.02	1.50	1.43
1	AA	634	C	C5-C6	-8.02	1.27	1.34
26	BB	662	G	N7-C5	8.02	1.44	1.39
26	BB	774	G	C6-N1	8.02	1.45	1.39
1	AA	25	C	C4'-O4'	-8.02	1.35	1.45
26	BB	279	A	C5'-C4'	8.02	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2101	A	N3-C4	8.02	1.39	1.34
1	AA	179	A	N3-C4	8.02	1.39	1.34
1	AA	731	G	C8-N7	-8.02	1.26	1.30
26	BB	159	G	C2-N3	8.02	1.39	1.32
26	BB	364	C	C5-C6	8.02	1.40	1.34
26	BB	2306	C	C5-C6	8.02	1.40	1.34
26	BB	2637	U	P-O5'	8.02	1.67	1.59
1	AA	835	U	P-O5'	8.02	1.67	1.59
26	BB	9	G	N7-C5	8.02	1.44	1.39
26	BB	1150	C	N1-C6	8.02	1.42	1.37
26	BB	1685	C	O4'-C1'	8.02	1.52	1.41
26	BB	1271	G	N1-C2	8.01	1.44	1.37
1	AA	752	G	C2-N3	8.01	1.39	1.32
26	BB	2759	G	C4'-C3'	-8.01	1.44	1.53
25	BA	81	G	N7-C5	8.01	1.44	1.39
26	BB	1332	G	C2'-C1'	8.01	1.62	1.53
26	BB	2505	G	N1-C2	8.01	1.44	1.37
26	BB	715	A	C5'-C4'	8.01	1.60	1.51
26	BB	499	U	C5-C6	8.00	1.41	1.34
26	BB	1048	A	C8-N7	-8.00	1.25	1.31
26	BB	1490	A	N9-C4	8.00	1.42	1.37
1	AA	1288	A	C2-N3	8.00	1.40	1.33
25	BA	67	G	C8-N7	8.00	1.35	1.30
25	BA	68	C	C4'-O4'	-8.00	1.35	1.45
26	BB	1008	A	C5'-C4'	8.00	1.60	1.51
1	AA	1034	G	N9-C8	-8.00	1.32	1.37
26	BB	1519	G	C4'-O4'	-8.00	1.35	1.45
26	BB	271	G	N1-C2	7.99	1.44	1.37
26	BB	614	A	C5-C4	-7.99	1.33	1.38
26	BB	849	A	C5'-C4'	7.99	1.60	1.51
26	BB	2089	C	O4'-C1'	7.99	1.52	1.41
26	BB	2121	G	C2-N3	7.99	1.39	1.32
1	AA	795	C	P-O5'	7.99	1.67	1.59
26	BB	2115	G	N9-C8	7.99	1.43	1.37
26	BB	2443	C	P-O5'	7.99	1.67	1.59
26	BB	2127	G	C2-N3	7.98	1.39	1.32
26	BB	1195	G	C5'-C4'	7.98	1.60	1.51
26	BB	1420	A	N3-C4	7.98	1.39	1.34
26	BB	1795	C	N1-C6	7.98	1.42	1.37
26	BB	1815	A	C5-C4	-7.98	1.33	1.38
26	BB	1866	A	C4'-C3'	7.98	1.61	1.53
1	AA	1088	G	C6-N1	-7.98	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	60	C	P-O5'	7.98	1.67	1.59
26	BB	1426	G	C2-N3	7.98	1.39	1.32
26	BB	1478	G	N3-C4	7.98	1.41	1.35
1	AA	1130	A	N9-C4	7.98	1.42	1.37
1	AA	986	U	P-O5'	7.98	1.67	1.59
26	BB	481	G	N7-C5	7.98	1.44	1.39
26	BB	1652	A	P-O5'	7.98	1.67	1.59
26	BB	1751	U	C2-N3	7.98	1.43	1.37
26	BB	1666	G	C5'-C4'	7.98	1.60	1.51
26	BB	1797	G	N3-C4	7.98	1.41	1.35
1	AA	371	A	N7-C5	-7.97	1.34	1.39
1	AA	827	U	N1-C2	7.97	1.45	1.38
1	AA	1495	U	C4'-O4'	-7.97	1.35	1.45
4	AD	47	A	C5'-C4'	7.97	1.60	1.51
25	BA	30	C	C4-C5	7.97	1.49	1.43
26	BB	506	G	O3'-P	7.97	1.70	1.61
26	BB	582	A	N3-C4	7.97	1.39	1.34
26	BB	2735	G	C8-N7	-7.97	1.26	1.30
1	AA	698	G	C8-N7	-7.97	1.26	1.30
2	AB	41	C	C5'-C4'	7.97	1.60	1.51
26	BB	2173	A	P-O5'	7.97	1.67	1.59
1	AA	1514	G	N3-C4	7.97	1.41	1.35
26	BB	2636	C	N3-C4	7.97	1.39	1.33
25	BA	88	C	P-O5'	7.97	1.67	1.59
1	AA	1388	C	O3'-P	7.96	1.70	1.61
26	BB	1308	A	C5'-C4'	7.96	1.60	1.51
26	BB	1338	G	N7-C5	7.96	1.44	1.39
26	BB	505	A	C5'-C4'	7.96	1.60	1.51
26	BB	1168	G	C6-N1	-7.96	1.33	1.39
26	BB	937	C	C4'-C3'	7.96	1.61	1.53
26	BB	118	A	N9-C8	7.96	1.44	1.37
26	BB	695	G	N7-C5	-7.96	1.34	1.39
26	BB	1237	A	N3-C4	7.96	1.39	1.34
26	BB	1614	A	N3-C4	7.96	1.39	1.34
1	AA	197	A	P-O5'	7.96	1.67	1.59
26	BB	708	G	O3'-P	7.96	1.70	1.61
1	AA	891	U	N1-C2	7.95	1.45	1.38
1	AA	1534	A	N9-C4	-7.95	1.33	1.37
3	AC	36	U	P-O5'	7.95	1.67	1.59
26	BB	1038	G	C2-N3	7.95	1.39	1.32
1	AA	767	A	C6-N1	7.95	1.41	1.35
1	AA	177	G	C5-C4	7.95	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	437	U	P-O5'	7.95	1.67	1.59
1	AA	591	U	C4-C5	7.95	1.50	1.43
26	BB	866	A	C5-C4	7.95	1.44	1.38
26	BB	447	A	C8-N7	-7.95	1.25	1.31
26	BB	2429	G	C8-N7	7.95	1.35	1.30
26	BB	2868	A	N9-C8	7.95	1.44	1.37
26	BB	283	G	N9-C8	-7.95	1.32	1.37
26	BB	1824	G	N7-C5	-7.95	1.34	1.39
26	BB	378	C	N1-C6	7.95	1.42	1.37
26	BB	321	U	C5'-C4'	7.94	1.60	1.51
1	AA	58	C	P-O5'	7.94	1.67	1.59
1	AA	550	G	N9-C8	-7.94	1.32	1.37
26	BB	1312	U	C4'-O4'	-7.94	1.35	1.45
26	BB	2611	C	N3-C4	7.94	1.39	1.33
1	AA	92	U	C5-C6	7.94	1.41	1.34
1	AA	389	A	C6-N1	7.94	1.41	1.35
1	AA	391	G	C5'-C4'	7.94	1.60	1.51
1	AA	893	C	C4-N4	-7.94	1.26	1.33
2	AB	72	U	C4-O4	-7.94	1.17	1.23
26	BB	104	A	C6-N1	-7.94	1.29	1.35
26	BB	930	G	C5-C4	-7.94	1.32	1.38
26	BB	1601	G	P-O5'	7.94	1.67	1.59
1	AA	1110	A	N3-C4	7.93	1.39	1.34
26	BB	30	G	N9-C8	-7.93	1.32	1.37
26	BB	1055	G	C2-N3	7.93	1.39	1.32
26	BB	2890	G	C6-N1	-7.93	1.33	1.39
3	AC	19	A	C4'-O4'	-7.93	1.35	1.45
26	BB	2110	G	N9-C4	-7.93	1.31	1.38
26	BB	2565	A	C5'-C4'	7.93	1.60	1.51
26	BB	2648	G	N9-C4	-7.93	1.31	1.38
26	BB	2020	A	N9-C4	7.93	1.42	1.37
1	AA	1483	A	N3-C4	7.93	1.39	1.34
1	AA	1115	U	C5'-C4'	7.93	1.60	1.51
26	BB	1787	A	C8-N7	-7.93	1.26	1.31
1	AA	404	G	N1-C2	7.92	1.44	1.37
1	AA	1308	U	O3'-P	7.92	1.70	1.61
26	BB	1530	G	C2-N3	7.92	1.39	1.32
1	AA	425	G	C8-N7	7.92	1.35	1.30
1	AA	1039	G	C5-C4	7.92	1.43	1.38
26	BB	671	C	C2-N3	7.92	1.42	1.35
1	AA	444	G	N1-C2	7.92	1.44	1.37
26	BB	58	G	N3-C4	7.92	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1953	A	C4'-C3'	7.92	1.61	1.53
1	AA	1004	A	P-O5'	7.92	1.67	1.59
26	BB	263	G	N3-C4	7.92	1.41	1.35
26	BB	337	C	C2'-C1'	7.92	1.62	1.53
26	BB	880	G	N3-C4	7.92	1.41	1.35
26	BB	2143	C	C5-C6	7.92	1.40	1.34
1	AA	655	A	N9-C4	7.92	1.42	1.37
1	AA	1337	G	P-O5'	7.92	1.67	1.59
26	BB	2012	G	C2-N3	7.92	1.39	1.32
26	BB	845	A	N9-C8	7.91	1.44	1.37
26	BB	2796	U	C2-O2	7.91	1.29	1.22
1	AA	1230	C	N1-C6	-7.91	1.32	1.37
26	BB	1726	C	C2-N3	7.91	1.42	1.35
26	BB	2221	G	C2-N3	7.91	1.39	1.32
1	AA	637	C	C2-N3	7.91	1.42	1.35
1	AA	1488	G	C4'-O4'	-7.91	1.35	1.45
26	BB	265	A	N9-C4	7.91	1.42	1.37
1	AA	104	G	C2-N3	-7.91	1.26	1.32
1	AA	205	A	N9-C4	-7.91	1.33	1.37
1	AA	520	A	N7-C5	-7.91	1.34	1.39
1	AA	1248	A	C8-N7	-7.91	1.26	1.31
1	AA	1480	A	N3-C4	7.91	1.39	1.34
26	BB	1247	A	N9-C4	7.91	1.42	1.37
26	BB	115	C	O4'-C1'	7.90	1.51	1.41
26	BB	1521	G	N9-C8	7.90	1.43	1.37
1	AA	617	G	C6-O6	-7.90	1.17	1.24
1	AA	762	U	C2-N3	7.90	1.43	1.37
26	BB	1757	A	P-O5'	7.90	1.67	1.59
26	BB	2120	G	N9-C4	-7.90	1.31	1.38
26	BB	2164	C	C4-N4	7.90	1.41	1.33
1	AA	469	C	C5'-C4'	7.90	1.60	1.51
26	BB	581	C	C5-C6	7.90	1.40	1.34
1	AA	509	A	C2'-C1'	-7.90	1.44	1.53
1	AA	925	G	C4'-O4'	-7.90	1.35	1.45
1	AA	1250	A	P-O5'	7.90	1.67	1.59
1	AA	1445	U	P-O5'	-7.90	1.51	1.59
1	AA	1476	A	P-O5'	7.90	1.67	1.59
26	BB	2173	A	C6-N1	7.90	1.41	1.35
26	BB	2086	U	P-O5'	7.90	1.67	1.59
1	AA	1156	G	N7-C5	-7.89	1.34	1.39
26	BB	2202	U	C2-N3	7.89	1.43	1.37
26	BB	2770	G	C5'-C4'	7.89	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	7	G	N7-C5	-7.89	1.34	1.39
26	BB	1208	C	O3'-P	7.89	1.70	1.61
26	BB	1283	G	N7-C5	-7.89	1.34	1.39
1	AA	5	U	C3'-C2'	7.89	1.61	1.52
26	BB	470	A	C4'-C3'	7.89	1.61	1.53
26	BB	2353	G	N7-C5	-7.89	1.34	1.39
26	BB	2816	G	N3-C4	7.89	1.41	1.35
1	AA	984	C	C3'-C2'	-7.89	1.44	1.52
3	AC	40	G	N9-C4	-7.89	1.31	1.38
1	AA	1033	G	N3-C4	7.89	1.41	1.35
1	AA	1536	C	P-O5'	7.89	1.67	1.59
3	AC	43	U	C2-N3	7.89	1.43	1.37
26	BB	609	A	N7-C5	7.89	1.44	1.39
26	BB	2038	G	C8-N7	7.89	1.35	1.30
26	BB	2141	G	C6-N1	7.89	1.45	1.39
26	BB	403	U	N1-C6	7.88	1.45	1.38
26	BB	897	C	P-O5'	7.88	1.67	1.59
26	BB	1184	U	C4'-O4'	-7.88	1.35	1.45
26	BB	1268	A	C4'-C3'	7.88	1.61	1.53
26	BB	1538	G	C2-N3	7.88	1.39	1.32
26	BB	1891	G	C4'-C3'	7.88	1.61	1.53
26	BB	2576	G	N9-C4	7.88	1.44	1.38
26	BB	1093	G	N7-C5	7.88	1.44	1.39
26	BB	1320	C	C2-N3	7.88	1.42	1.35
26	BB	2397	G	C2-N3	7.88	1.39	1.32
1	AA	193	C	C4-N4	7.88	1.41	1.33
1	AA	1155	A	C5-C6	-7.88	1.33	1.41
26	BB	1455	G	C5-C4	-7.88	1.32	1.38
1	AA	10	A	C8-N7	-7.88	1.26	1.31
26	BB	2067	G	C2-N3	7.88	1.39	1.32
1	AA	663	A	P-O5'	7.88	1.67	1.59
26	BB	2769	U	P-O5'	7.88	1.67	1.59
26	BB	937	C	N1-C6	7.88	1.41	1.37
26	BB	1955	U	N3-C4	7.88	1.45	1.38
1	AA	702	A	N3-C4	7.87	1.39	1.34
26	BB	2425	A	N9-C4	7.87	1.42	1.37
26	BB	702	U	C5-C6	7.87	1.41	1.34
26	BB	1772	A	C5-C4	-7.87	1.33	1.38
26	BB	2847	U	C4'-O4'	-7.87	1.35	1.45
26	BB	1430	G	N7-C5	7.87	1.44	1.39
1	AA	286	C	C5-C6	7.87	1.40	1.34
26	BB	1160	G	N9-C8	-7.87	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1222	U	O3'-P	7.87	1.70	1.61
26	BB	1903	G	N3-C4	7.87	1.41	1.35
4	AD	74	A	C6-N6	7.86	1.40	1.33
26	BB	320	A	C4'-O4'	-7.86	1.35	1.45
26	BB	1627	G	C6-N1	7.86	1.45	1.39
1	AA	1048	G	O4'-C1'	7.86	1.51	1.41
26	BB	92	U	C2-N3	7.86	1.43	1.37
26	BB	817	C	N3-C4	7.86	1.39	1.33
26	BB	1091	G	N1-C2	7.86	1.44	1.37
1	AA	1056	U	P-O5'	7.86	1.67	1.59
1	AA	1093	A	N9-C8	-7.86	1.31	1.37
26	BB	516	C	P-O5'	7.86	1.67	1.59
26	BB	2553	G	C4'-O4'	-7.86	1.35	1.45
1	AA	441	A	N9-C4	7.86	1.42	1.37
1	AA	849	G	C2-N3	7.86	1.39	1.32
26	BB	1783	A	C6-N1	-7.86	1.30	1.35
26	BB	1999	C	C4-C5	7.86	1.49	1.43
1	AA	153	C	P-O5'	7.85	1.67	1.59
26	BB	1770	G	N1-C2	7.85	1.44	1.37
26	BB	997	G	C6-N1	-7.85	1.34	1.39
26	BB	1897	G	C2-N3	7.85	1.39	1.32
26	BB	2499	C	N1-C6	7.85	1.41	1.37
1	AA	617	G	C5'-C4'	7.85	1.60	1.51
1	AA	1012	A	O3'-P	7.85	1.70	1.61
26	BB	662	G	C5-C4	7.85	1.43	1.38
26	BB	2134	A	P-O5'	7.85	1.67	1.59
26	BB	2262	U	C4'-O4'	-7.85	1.35	1.45
26	BB	2901	C	P-O5'	-7.85	1.51	1.59
26	BB	1096	A	P-O5'	7.85	1.67	1.59
1	AA	839	C	N1-C6	7.84	1.41	1.37
1	AA	1016	A	N7-C5	-7.84	1.34	1.39
2	AB	31	U	C3'-C2'	7.84	1.61	1.52
26	BB	96	C	C2-N3	7.84	1.42	1.35
26	BB	929	U	N1-C6	7.84	1.45	1.38
1	AA	1124	G	N9-C4	7.84	1.44	1.38
26	BB	342	A	C8-N7	-7.84	1.26	1.31
26	BB	2777	G	P-O5'	7.84	1.67	1.59
1	AA	121	U	C4'-O4'	-7.84	1.35	1.45
1	AA	316	C	N1-C6	7.84	1.41	1.37
26	BB	2534	A	N1-C2	7.84	1.41	1.34
26	BB	1410	G	C6-N1	-7.84	1.34	1.39
26	BB	2668	G	N3-C4	7.84	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1451	C	C5-C6	7.84	1.40	1.34
26	BB	2795	C	C2-N3	7.84	1.42	1.35
1	AA	278	G	C6-N1	7.84	1.45	1.39
26	BB	628	G	N7-C5	-7.84	1.34	1.39
26	BB	1055	G	N9-C4	7.84	1.44	1.38
26	BB	1674	G	C4'-C3'	7.84	1.61	1.53
1	AA	1268	G	N9-C8	7.83	1.43	1.37
26	BB	2869	G	N9-C8	7.83	1.43	1.37
1	AA	614	C	C4-C5	7.83	1.49	1.43
26	BB	1346	G	N1-C2	7.83	1.44	1.37
1	AA	431	A	C5-C6	7.83	1.48	1.41
1	AA	853	C	N3-C4	7.83	1.39	1.33
26	BB	1929	G	N1-C2	7.83	1.44	1.37
1	AA	557	G	C2'-C1'	7.83	1.61	1.53
26	BB	1232	G	C5-C4	-7.83	1.32	1.38
26	BB	2112	G	C6-N1	7.83	1.45	1.39
1	AA	907	A	N9-C4	7.82	1.42	1.37
1	AA	1135	U	N1-C2	7.82	1.45	1.38
2	AB	21	A	N3-C4	7.82	1.39	1.34
25	BA	18	G	N3-C4	7.82	1.41	1.35
26	BB	672	C	C2-O2	-7.82	1.17	1.24
26	BB	1754	A	N9-C4	7.82	1.42	1.37
26	BB	2149	U	P-O5'	7.82	1.67	1.59
1	AA	1297	G	C4'-O4'	-7.82	1.35	1.45
26	BB	1333	G	P-O5'	7.82	1.67	1.59
26	BB	2448	A	C8-N7	-7.82	1.26	1.31
26	BB	2597	G	C4'-C3'	-7.82	1.44	1.53
26	BB	1683	U	C5'-C4'	7.82	1.60	1.51
1	AA	1271	A	N7-C5	-7.82	1.34	1.39
26	BB	1935	G	C3'-O3'	7.82	1.53	1.42
1	AA	566	G	P-O5'	7.82	1.67	1.59
1	AA	650	G	N7-C5	-7.82	1.34	1.39
26	BB	157	C	C2-N3	7.82	1.42	1.35
26	BB	822	G	N7-C5	-7.82	1.34	1.39
26	BB	1289	C	C5-C6	7.82	1.40	1.34
26	BB	2702	G	N3-C4	7.82	1.41	1.35
1	AA	1122	U	N1-C2	7.81	1.45	1.38
26	BB	1401	G	C5'-C4'	7.81	1.60	1.51
26	BB	2289	G	O3'-P	7.81	1.70	1.61
26	BB	2439	A	N9-C4	7.81	1.42	1.37
1	AA	1036	A	C2'-C1'	7.81	1.61	1.53
26	BB	816	C	N3-C4	7.81	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	819	A	N7-C5	-7.81	1.34	1.39
26	BB	821	A	C8-N7	-7.81	1.26	1.31
26	BB	1970	A	N9-C4	7.81	1.42	1.37
26	BB	2524	G	N1-C2	7.81	1.44	1.37
1	AA	281	G	N1-C2	7.81	1.44	1.37
1	AA	1246	A	N9-C8	-7.81	1.31	1.37
26	BB	119	A	C5'-C4'	7.81	1.60	1.51
26	BB	609	A	P-O5'	7.81	1.67	1.59
26	BB	1004	U	P-O5'	7.81	1.67	1.59
26	BB	1160	G	C6-N1	7.81	1.45	1.39
26	BB	1477	A	C8-N7	-7.81	1.26	1.31
26	BB	2597	G	C6-N1	7.81	1.45	1.39
26	BB	315	G	C2-N2	-7.81	1.26	1.34
26	BB	1744	A	N3-C4	7.81	1.39	1.34
26	BB	2062	A	N7-C5	7.81	1.44	1.39
26	BB	1669	A	N9-C4	7.80	1.42	1.37
26	BB	1988	G	C6-N1	-7.80	1.34	1.39
1	AA	1188	A	P-O5'	7.80	1.67	1.59
26	BB	1066	U	N1-C2	7.80	1.45	1.38
26	BB	1824	G	C2-N3	7.80	1.39	1.32
1	AA	1410	A	C2-N3	7.80	1.40	1.33
26	BB	2814	A	N7-C5	-7.80	1.34	1.39
1	AA	946	A	N7-C5	-7.80	1.34	1.39
26	BB	2495	G	C8-N7	-7.80	1.26	1.30
26	BB	513	A	P-O5'	7.79	1.67	1.59
26	BB	978	G	N9-C4	-7.79	1.31	1.38
26	BB	2501	C	C2-N3	7.79	1.42	1.35
1	AA	1022	A	N3-C4	7.79	1.39	1.34
26	BB	358	U	N1-C2	7.79	1.45	1.38
26	BB	575	A	N9-C4	7.79	1.42	1.37
26	BB	611	C	N3-C4	7.79	1.39	1.33
26	BB	1126	A	N9-C4	-7.79	1.33	1.37
1	AA	1350	A	C5'-C4'	7.79	1.60	1.51
26	BB	591	U	O3'-P	7.79	1.70	1.61
26	BB	797	G	N3-C4	7.79	1.41	1.35
1	AA	889	A	N9-C4	-7.79	1.33	1.37
25	BA	27	C	C4'-O4'	-7.79	1.35	1.45
26	BB	64	A	N9-C4	7.79	1.42	1.37
26	BB	2663	G	C2-N3	7.79	1.39	1.32
1	AA	174	A	C5-C4	-7.79	1.33	1.38
1	AA	493	A	C5'-C4'	7.79	1.60	1.51
26	BB	114	U	C4'-O4'	-7.79	1.35	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1404	C	C2-N3	7.79	1.42	1.35
26	BB	2676	C	N3-C4	7.79	1.39	1.33
26	BB	864	G	P-O5'	7.78	1.67	1.59
26	BB	1885	A	C2'-C1'	7.78	1.61	1.53
1	AA	373	A	N3-C4	7.78	1.39	1.34
2	AB	38	A	O3'-P	7.78	1.70	1.61
1	AA	1281	C	N3-C4	7.78	1.39	1.33
2	AB	13	C	C2-N3	7.78	1.42	1.35
4	AD	77	A	P-O5'	7.78	1.67	1.59
26	BB	499	U	C4'-C3'	7.78	1.61	1.53
1	AA	424	G	N7-C5	7.78	1.44	1.39
25	BA	86	G	C8-N7	-7.78	1.26	1.30
26	BB	707	G	N7-C5	7.78	1.44	1.39
26	BB	1808	A	C6-N1	-7.78	1.30	1.35
26	BB	1334	G	P-O5'	7.78	1.67	1.59
1	AA	1144	G	C2'-C1'	-7.78	1.44	1.53
26	BB	1588	G	C6-N1	7.78	1.45	1.39
1	AA	1436	U	C4-C5	7.77	1.50	1.43
26	BB	882	G	P-O5'	7.77	1.67	1.59
1	AA	54	C	C4'-O4'	-7.77	1.35	1.45
1	AA	988	G	O4'-C1'	7.77	1.51	1.41
26	BB	2350	C	N1-C6	7.77	1.41	1.37
1	AA	405	U	N1-C2	7.76	1.45	1.38
26	BB	331	C	N1-C6	-7.76	1.32	1.37
26	BB	1761	C	C4-N4	7.76	1.41	1.33
26	BB	2224	G	P-O5'	7.76	1.67	1.59
1	AA	929	G	P-O5'	7.76	1.67	1.59
26	BB	726	G	C8-N7	7.76	1.35	1.30
1	AA	346	G	P-O5'	7.76	1.67	1.59
26	BB	56	A	C4'-C3'	7.76	1.61	1.53
1	AA	161	A	N7-C5	7.76	1.44	1.39
1	AA	1259	C	C4-N4	7.76	1.41	1.33
26	BB	1640	A	N7-C5	7.76	1.44	1.39
26	BB	983	A	N9-C4	7.76	1.42	1.37
26	BB	2458	G	P-O5'	7.76	1.67	1.59
26	BB	2569	G	N1-C2	7.76	1.44	1.37
1	AA	483	C	N1-C6	7.75	1.41	1.37
1	AA	1036	A	N3-C4	7.75	1.39	1.34
26	BB	579	G	N9-C4	-7.75	1.31	1.38
26	BB	846	U	P-O5'	7.75	1.67	1.59
26	BB	2565	A	N7-C5	7.75	1.44	1.39
1	AA	295	C	C4'-O4'	-7.75	1.35	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	471	A	N3-C4	7.75	1.39	1.34
1	AA	141	G	N9-C4	7.75	1.44	1.38
1	AA	281	G	C2-N3	7.75	1.39	1.32
1	AA	1196	A	C6-N6	7.75	1.40	1.33
1	AA	1252	A	C6-N6	-7.75	1.27	1.33
26	BB	2643	G	C4'-C3'	7.75	1.61	1.53
1	AA	826	C	P-O5'	-7.75	1.52	1.59
1	AA	869	G	P-O5'	7.75	1.67	1.59
26	BB	733	G	N3-C4	7.75	1.40	1.35
26	BB	1593	A	C5-C4	-7.75	1.33	1.38
1	AA	414	A	C2-N3	7.75	1.40	1.33
26	BB	514	A	N3-C4	7.75	1.39	1.34
26	BB	1937	A	C5'-C4'	7.75	1.60	1.51
26	BB	2084	C	C4-N4	7.75	1.41	1.33
1	AA	794	A	N7-C5	-7.74	1.34	1.39
26	BB	2297	A	P-O5'	7.74	1.67	1.59
26	BB	2690	U	N3-C4	7.74	1.45	1.38
26	BB	42	A	C5-C4	-7.74	1.33	1.38
26	BB	1882	U	C2-N3	7.74	1.43	1.37
1	AA	381	C	C4-C5	7.74	1.49	1.43
1	AA	650	G	C8-N7	-7.74	1.26	1.30
26	BB	1753	G	C2-N3	7.74	1.39	1.32
26	BB	2093	G	C8-N7	7.74	1.35	1.30
1	AA	710	G	C6-N1	7.74	1.45	1.39
1	AA	146	G	C6-N1	7.74	1.45	1.39
1	AA	711	G	C5-C4	7.74	1.43	1.38
26	BB	619	G	P-O5'	7.74	1.67	1.59
26	BB	1353	A	N9-C8	7.74	1.44	1.37
1	AA	174	A	N7-C5	7.73	1.43	1.39
26	BB	2520	C	C2-N3	7.73	1.42	1.35
1	AA	1206	G	C2-N3	7.73	1.39	1.32
26	BB	23	G	C2-N2	-7.73	1.26	1.34
26	BB	320	A	C8-N7	-7.73	1.26	1.31
26	BB	1106	G	C5'-C4'	7.73	1.60	1.51
1	AA	1111	A	C5-C6	7.73	1.48	1.41
1	AA	74	A	N3-C4	7.72	1.39	1.34
2	AB	29	G	N7-C5	-7.72	1.34	1.39
26	BB	374	A	O3'-P	7.72	1.70	1.61
26	BB	380	G	N7-C5	-7.72	1.34	1.39
26	BB	1073	A	N9-C8	-7.72	1.31	1.37
53	B2	26	SER	CB-OG	-7.72	1.32	1.42
1	AA	1318	A	C8-N7	-7.72	1.26	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	410	G	C6-N1	7.72	1.45	1.39
26	BB	1107	G	N7-C5	7.72	1.43	1.39
26	BB	35	G	C2-N3	7.72	1.39	1.32
26	BB	259	G	N7-C5	7.72	1.43	1.39
26	BB	488	G	C5'-C4'	7.72	1.60	1.51
1	AA	860	A	P-O5'	7.72	1.67	1.59
25	BA	34	A	C3'-O3'	7.72	1.52	1.42
26	BB	306	U	O3'-P	7.72	1.70	1.61
26	BB	2108	A	N3-C4	7.72	1.39	1.34
1	AA	157	U	P-O5'	7.71	1.67	1.59
26	BB	1327	A	C4'-O4'	-7.71	1.35	1.45
26	BB	2389	G	C2-N3	7.71	1.39	1.32
1	AA	1368	A	N9-C8	-7.71	1.31	1.37
4	AD	48	U	N1-C2	7.71	1.45	1.38
26	BB	2129	C	C2'-C1'	7.71	1.61	1.53
1	AA	36	C	C4-C5	7.71	1.49	1.43
4	AD	11	A	P-O5'	7.71	1.67	1.59
1	AA	1147	C	C2-N3	7.71	1.42	1.35
26	BB	320	A	N3-C4	7.71	1.39	1.34
26	BB	1593	A	N3-C4	7.71	1.39	1.34
26	BB	1525	A	C6-N6	7.71	1.40	1.33
26	BB	2320	U	P-O5'	7.71	1.67	1.59
26	BB	1896	G	C8-N7	7.71	1.35	1.30
26	BB	2071	A	C3'-C2'	-7.71	1.44	1.52
1	AA	753	A	N1-C2	-7.70	1.27	1.34
1	AA	1536	C	C4'-O4'	-7.70	1.35	1.45
1	AA	126	G	N1-C2	7.70	1.44	1.37
26	BB	1139	G	C2-N3	7.70	1.39	1.32
1	AA	147	G	N9-C4	-7.70	1.31	1.38
1	AA	775	G	P-O5'	7.70	1.67	1.59
26	BB	1306	C	N1-C6	7.70	1.41	1.37
10	AJ	176	TYR	CD2-CE2	7.70	1.50	1.39
26	BB	1372	U	C5-C6	7.70	1.41	1.34
26	BB	463	G	N9-C8	7.69	1.43	1.37
1	AA	1002	G	C8-N7	-7.69	1.26	1.30
26	BB	2515	C	C2-O2	-7.69	1.17	1.24
1	AA	847	G	P-O5'	7.69	1.67	1.59
26	BB	2602	A	N9-C8	-7.69	1.31	1.37
26	BB	1491	G	C6-N1	7.69	1.45	1.39
26	BB	2397	G	N9-C4	7.69	1.44	1.38
26	BB	2521	C	O3'-P	7.69	1.70	1.61
26	BB	272	A	C5'-C4'	7.69	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1063	G	P-O5'	7.69	1.67	1.59
26	BB	1554	U	N1-C2	7.69	1.45	1.38
26	BB	2116	G	N3-C4	7.69	1.40	1.35
1	AA	102	G	C5-C4	7.68	1.43	1.38
26	BB	918	A	C8-N7	-7.68	1.26	1.31
26	BB	1557	C	P-O5'	7.68	1.67	1.59
26	BB	1754	A	P-O5'	7.68	1.67	1.59
1	AA	1409	C	C5'-C4'	7.68	1.60	1.51
26	BB	2157	G	N7-C5	7.68	1.43	1.39
26	BB	2304	G	P-O5'	7.68	1.67	1.59
26	BB	2602	A	N3-C4	7.68	1.39	1.34
1	AA	215	C	N1-C6	7.68	1.41	1.37
1	AA	1365	G	C4'-C3'	-7.68	1.44	1.53
26	BB	1764	C	C4-C5	7.68	1.49	1.43
26	BB	346	A	C8-N7	-7.68	1.26	1.31
26	BB	1849	G	C2'-C1'	7.68	1.61	1.53
26	BB	119	A	P-O5'	7.68	1.67	1.59
26	BB	2454	G	N1-C2	7.68	1.43	1.37
26	BB	2248	C	C2-N3	7.67	1.41	1.35
26	BB	927	A	N3-C4	-7.67	1.30	1.34
26	BB	1236	G	N3-C4	7.67	1.40	1.35
26	BB	1803	A	C8-N7	-7.67	1.26	1.31
26	BB	369	U	N1-C2	7.67	1.45	1.38
26	BB	621	A	N3-C4	7.67	1.39	1.34
26	BB	940	G	C2'-C1'	-7.67	1.45	1.53
26	BB	1829	A	P-O5'	7.67	1.67	1.59
1	AA	114	U	C4-O4	-7.67	1.17	1.23
1	AA	165	G	N1-C2	7.67	1.43	1.37
1	AA	792	A	N9-C8	-7.67	1.31	1.37
26	BB	198	C	C4'-O4'	-7.67	1.35	1.45
26	BB	352	A	N3-C4	7.67	1.39	1.34
26	BB	1119	U	C2-O2	7.67	1.29	1.22
26	BB	1598	A	N3-C4	7.67	1.39	1.34
26	BB	2684	U	N1-C6	7.67	1.44	1.38
1	AA	76	G	C2'-C1'	7.67	1.61	1.53
26	BB	619	G	C8-N7	-7.67	1.26	1.30
26	BB	2017	U	N3-C4	7.67	1.45	1.38
1	AA	218	U	C2-N3	7.67	1.43	1.37
1	AA	640	A	O3'-P	7.67	1.70	1.61
1	AA	1404	C	C4'-C3'	7.66	1.61	1.53
26	BB	1	G	O3'-P	7.66	1.70	1.61
1	AA	959	A	N3-C4	7.66	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	217	A	N9-C8	-7.66	1.31	1.37
26	BB	2437	G	N1-C2	7.66	1.43	1.37
1	AA	939	G	N3-C4	7.66	1.40	1.35
26	BB	174	U	P-O5'	7.66	1.67	1.59
26	BB	673	C	C4'-C3'	-7.66	1.44	1.53
26	BB	2098	U	P-O5'	7.66	1.67	1.59
1	AA	1148	U	C2-N3	7.66	1.43	1.37
3	AC	48	C	N1-C6	7.66	1.41	1.37
2	AB	22	G	N7-C5	7.65	1.43	1.39
26	BB	1156	A	C6-N6	-7.65	1.27	1.33
26	BB	2568	U	C4-C5	7.65	1.50	1.43
26	BB	296	U	C2-N3	7.65	1.43	1.37
26	BB	1021	A	N7-C5	-7.65	1.34	1.39
26	BB	1210	G	N9-C8	-7.65	1.32	1.37
26	BB	1646	C	C4-C5	7.65	1.49	1.43
1	AA	1279	G	P-O5'	7.65	1.67	1.59
26	BB	2578	G	C2-N3	7.65	1.38	1.32
26	BB	2669	G	C5-C6	7.65	1.50	1.42
26	BB	2903	U	C2-N3	7.65	1.43	1.37
1	AA	433	G	C5'-C4'	7.65	1.60	1.51
3	AC	52	U	N3-C4	7.65	1.45	1.38
26	BB	383	C	C4-N4	7.65	1.40	1.33
26	BB	1907	G	N7-C5	7.65	1.43	1.39
26	BB	1969	A	N9-C4	7.65	1.42	1.37
26	BB	2745	C	C3'-C2'	-7.65	1.44	1.52
1	AA	1082	A	N3-C4	7.65	1.39	1.34
26	BB	1021	A	N9-C8	-7.65	1.31	1.37
1	AA	130	A	N3-C4	7.64	1.39	1.34
26	BB	46	G	N3-C4	7.64	1.40	1.35
26	BB	175	G	C6-N1	7.64	1.45	1.39
26	BB	1336	A	C4'-O4'	-7.64	1.35	1.45
26	BB	2054	A	C5-C4	-7.64	1.33	1.38
1	AA	131	A	C2-N3	7.64	1.40	1.33
1	AA	1025	U	C4'-C3'	7.64	1.61	1.53
26	BB	2540	C	C4-C5	7.64	1.49	1.43
26	BB	938	G	C5-C4	-7.64	1.33	1.38
26	BB	1703	G	N9-C8	7.64	1.43	1.37
1	AA	532	A	P-O5'	7.64	1.67	1.59
1	AA	837	U	C4'-C3'	7.64	1.61	1.53
3	AC	57	C	C2-N3	7.64	1.41	1.35
26	BB	1090	A	P-O5'	7.64	1.67	1.59
26	BB	2002	G	P-O5'	7.64	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	949	A	N9-C8	7.64	1.43	1.37
1	AA	1288	A	C2'-C1'	-7.64	1.45	1.53
25	BA	69	G	C6-N1	7.64	1.44	1.39
26	BB	2336	A	N3-C4	7.64	1.39	1.34
26	BB	60	G	C5-C4	7.63	1.43	1.38
26	BB	239	C	P-O5'	7.63	1.67	1.59
26	BB	1128	G	C2-N3	7.63	1.38	1.32
26	BB	2845	U	C5'-C4'	7.63	1.60	1.51
26	BB	1043	C	O3'-P	7.63	1.70	1.61
26	BB	1163	G	O3'-P	7.63	1.70	1.61
26	BB	2823	A	C5'-C4'	7.63	1.60	1.51
1	AA	208	U	C5'-C4'	7.63	1.60	1.51
26	BB	469	G	N9-C8	-7.63	1.32	1.37
26	BB	710	U	C5-C6	7.63	1.41	1.34
26	BB	1125	G	C6-N1	7.63	1.44	1.39
26	BB	2655	G	N1-C2	7.63	1.43	1.37
26	BB	20	C	N1-C6	7.63	1.41	1.37
26	BB	2361	G	N3-C4	7.63	1.40	1.35
25	BA	62	C	P-O5'	7.63	1.67	1.59
1	AA	706	A	N7-C5	-7.63	1.34	1.39
1	AA	1192	C	C5-C6	7.63	1.40	1.34
1	AA	1283	U	N3-C4	7.63	1.45	1.38
25	BA	87	U	P-O5'	7.63	1.67	1.59
26	BB	311	A	N3-C4	-7.62	1.30	1.34
1	AA	5	U	C5'-C4'	7.62	1.60	1.51
25	BA	52	A	N7-C5	-7.62	1.34	1.39
26	BB	2475	C	C5-C6	7.62	1.40	1.34
1	AA	113	G	N7-C5	7.62	1.43	1.39
1	AA	375	U	C3'-O3'	-7.62	1.31	1.42
1	AA	736	C	O4'-C1'	7.62	1.51	1.41
26	BB	1295	C	N1-C6	7.62	1.41	1.37
26	BB	1445	G	N7-C5	-7.62	1.34	1.39
2	AB	50	G	C6-O6	-7.62	1.17	1.24
26	BB	14	A	N7-C5	7.62	1.43	1.39
26	BB	1628	G	C6-N1	-7.62	1.34	1.39
26	BB	620	G	P-O5'	7.61	1.67	1.59
1	AA	525	C	P-O5'	7.61	1.67	1.59
26	BB	1131	G	C8-N7	-7.61	1.26	1.30
26	BB	1404	C	C4-N4	7.61	1.40	1.33
1	AA	140	U	C2-N3	7.61	1.43	1.37
26	BB	2674	G	C6-N1	7.61	1.44	1.39
26	BB	104	A	C6-N6	7.61	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	497	A	N3-C4	7.61	1.39	1.34
26	BB	1186	G	N7-C5	7.61	1.43	1.39
25	BA	10	G	C5'-C4'	7.61	1.60	1.51
26	BB	312	G	C5-C6	7.61	1.50	1.42
26	BB	1296	G	N9-C4	-7.61	1.31	1.38
1	AA	1365	G	N1-C2	-7.61	1.31	1.37
26	BB	415	A	N3-C4	7.61	1.39	1.34
26	BB	807	U	C4'-O4'	-7.61	1.35	1.45
26	BB	855	G	C4'-O4'	-7.61	1.35	1.45
26	BB	993	G	C6-N1	7.61	1.44	1.39
26	BB	2354	C	N3-C4	7.61	1.39	1.33
26	BB	2776	A	N9-C4	-7.61	1.33	1.37
1	AA	702	A	N1-C2	-7.60	1.27	1.34
26	BB	719	C	N3-C4	7.60	1.39	1.33
1	AA	239	U	N1-C2	7.60	1.45	1.38
1	AA	1268	G	C4'-C3'	7.60	1.61	1.53
1	AA	1504	G	C5-C4	-7.60	1.33	1.38
1	AA	1160	G	C5-C4	7.60	1.43	1.38
26	BB	1757	A	N3-C4	7.60	1.39	1.34
1	AA	829	G	C5'-C4'	7.60	1.60	1.51
1	AA	925	G	C5'-C4'	7.60	1.60	1.51
1	AA	1004	A	N3-C4	7.60	1.39	1.34
26	BB	1356	G	C2-N3	7.60	1.38	1.32
26	BB	2339	C	C2'-C1'	7.60	1.61	1.53
3	AC	53	G	C4'-O4'	-7.60	1.35	1.45
26	BB	457	A	C5-C4	-7.60	1.33	1.38
26	BB	1160	G	C5-C4	-7.60	1.33	1.38
1	AA	1066	C	N3-C4	7.59	1.39	1.33
26	BB	1877	A	N3-C4	7.59	1.39	1.34
26	BB	1658	C	C4'-O4'	-7.59	1.35	1.45
1	AA	678	U	C2-N3	7.59	1.43	1.37
26	BB	239	C	N1-C6	-7.59	1.32	1.37
26	BB	266	G	C4'-O4'	-7.59	1.35	1.45
26	BB	1062	G	C5-C4	-7.59	1.33	1.38
26	BB	2098	U	C5-C6	7.59	1.41	1.34
26	BB	2716	C	C4-N4	-7.59	1.27	1.33
26	BB	359	G	C5-C4	-7.59	1.33	1.38
26	BB	2076	U	C5'-C4'	7.59	1.60	1.51
1	AA	451	A	N3-C4	7.59	1.39	1.34
25	BA	120	U	C2-N3	7.59	1.43	1.37
26	BB	1	G	N3-C4	7.59	1.40	1.35
26	BB	715	A	C5-C4	-7.59	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1101	U	C2-N3	7.59	1.43	1.37
26	BB	2486	C	N1-C6	7.59	1.41	1.37
1	AA	605	U	C4-O4	7.58	1.29	1.23
26	BB	1401	G	C2-N3	7.58	1.38	1.32
26	BB	2726	A	C5-C4	-7.58	1.33	1.38
1	AA	531	U	O3'-P	-7.58	1.52	1.61
1	AA	1290	G	N9-C8	7.58	1.43	1.37
26	BB	1819	A	N7-C5	7.58	1.43	1.39
26	BB	2487	G	C8-N7	7.58	1.35	1.30
26	BB	2749	A	N3-C4	7.58	1.39	1.34
26	BB	2828	G	C6-N1	7.58	1.44	1.39
1	AA	113	G	N9-C4	7.58	1.44	1.38
1	AA	728	A	C5'-C4'	7.58	1.60	1.51
26	BB	794	A	C5'-C4'	7.58	1.60	1.51
26	BB	924	G	N1-C2	7.58	1.43	1.37
1	AA	93	U	N1-C2	7.58	1.45	1.38
1	AA	247	G	C6-O6	-7.58	1.17	1.24
26	BB	2883	A	C8-N7	-7.58	1.26	1.31
1	AA	44	A	N3-C4	7.58	1.39	1.34
26	BB	835	C	P-O5'	7.58	1.67	1.59
1	AA	304	U	O3'-P	7.58	1.70	1.61
1	AA	1360	A	N3-C4	7.58	1.39	1.34
25	BA	35	C	C2'-C1'	7.58	1.61	1.53
26	BB	516	C	N3-C4	7.58	1.39	1.33
26	BB	1856	U	C4'-O4'	-7.58	1.35	1.45
1	AA	1306	A	C6-N1	7.57	1.40	1.35
26	BB	548	G	C5'-C4'	7.57	1.60	1.51
26	BB	1680	U	C4'-O4'	-7.57	1.35	1.45
26	BB	1997	C	C2-N3	7.57	1.41	1.35
26	BB	2888	C	C5'-C4'	7.57	1.60	1.51
26	BB	690	G	P-O5'	7.57	1.67	1.59
26	BB	1353	A	C5-C4	7.57	1.44	1.38
1	AA	297	G	N9-C4	7.57	1.44	1.38
1	AA	774	G	N3-C4	7.57	1.40	1.35
1	AA	1044	A	N7-C5	7.57	1.43	1.39
26	BB	138	U	C2-N3	7.57	1.43	1.37
26	BB	335	C	N3-C4	-7.57	1.28	1.33
26	BB	2489	U	P-O5'	7.57	1.67	1.59
1	AA	559	A	N9-C4	7.57	1.42	1.37
26	BB	56	A	P-O5'	7.57	1.67	1.59
26	BB	381	G	P-O5'	7.57	1.67	1.59
26	BB	591	U	P-O5'	7.56	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	562	U	N3-C4	7.56	1.45	1.38
1	AA	1331	G	C8-N7	7.56	1.35	1.30
1	AA	271	C	C5'-C4'	7.56	1.60	1.51
1	AA	722	G	P-O5'	7.56	1.67	1.59
26	BB	346	A	P-O5'	7.56	1.67	1.59
26	BB	442	G	C6-N1	7.56	1.44	1.39
26	BB	941	A	C4'-O4'	-7.56	1.35	1.45
26	BB	2870	C	N3-C4	7.56	1.39	1.33
1	AA	1403	C	C4'-O4'	-7.56	1.35	1.45
26	BB	724	U	N1-C2	7.56	1.45	1.38
26	BB	1297	C	C2-N3	7.56	1.41	1.35
26	BB	178	G	N1-C2	7.55	1.43	1.37
26	BB	990	A	C8-N7	-7.55	1.26	1.31
26	BB	1836	C	N1-C2	7.55	1.47	1.40
26	BB	1990	C	N1-C6	-7.55	1.32	1.37
1	AA	122	G	N9-C8	-7.55	1.32	1.37
1	AA	149	A	N7-C5	7.55	1.43	1.39
26	BB	1086	A	N3-C4	7.55	1.39	1.34
26	BB	2686	G	P-O5'	7.55	1.67	1.59
26	BB	947	A	N9-C4	-7.55	1.33	1.37
26	BB	2436	G	C4'-C3'	-7.55	1.44	1.53
26	BB	2803	G	C6-N1	7.55	1.44	1.39
1	AA	870	U	C3'-C2'	7.55	1.61	1.52
26	BB	1743	G	C6-N1	7.55	1.44	1.39
26	BB	1861	G	C5-C4	7.55	1.43	1.38
26	BB	2218	G	P-O5'	7.55	1.67	1.59
26	BB	1002	G	P-O5'	7.54	1.67	1.59
1	AA	297	G	C6-N1	7.54	1.44	1.39
1	AA	1491	G	C5'-C4'	7.54	1.60	1.51
3	AC	26	U	P-O5'	7.54	1.67	1.59
4	AD	54	G	N9-C8	7.54	1.43	1.37
26	BB	473	G	P-O5'	7.54	1.67	1.59
26	BB	1355	G	C3'-C2'	7.54	1.61	1.52
26	BB	1587	G	C2-N3	7.54	1.38	1.32
26	BB	1614	A	C6-N1	7.54	1.40	1.35
26	BB	1929	G	C3'-O3'	7.54	1.52	1.42
1	AA	405	U	P-O5'	7.54	1.67	1.59
1	AA	559	A	O3'-P	7.54	1.70	1.61
1	AA	1030	U	C2-N3	7.54	1.43	1.37
4	AD	62	C	C5-C6	7.54	1.40	1.34
26	BB	1021	A	N3-C4	7.54	1.39	1.34
26	BB	1192	G	N1-C2	7.54	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1242	U	C4-C5	7.54	1.50	1.43
1	AA	232	G	C5'-C4'	7.54	1.60	1.51
26	BB	2487	G	N3-C4	7.54	1.40	1.35
25	BA	106	G	C6-N1	7.54	1.44	1.39
26	BB	134	G	C2-N3	7.54	1.38	1.32
26	BB	506	G	P-O5'	7.54	1.67	1.59
26	BB	2114	A	P-O5'	7.54	1.67	1.59
26	BB	1794	A	N9-C4	7.54	1.42	1.37
26	BB	1968	G	C6-N1	-7.54	1.34	1.39
1	AA	134	G	C2-N3	7.54	1.38	1.32
25	BA	16	G	N7-C5	-7.54	1.34	1.39
26	BB	788	A	N9-C4	-7.54	1.33	1.37
26	BB	908	C	C4'-O4'	-7.54	1.35	1.45
26	BB	1412	U	C4-C5	7.54	1.50	1.43
26	BB	1509	A	C4'-C3'	7.54	1.61	1.53
26	BB	2594	C	P-O5'	7.54	1.67	1.59
1	AA	467	U	C4-C5	7.53	1.50	1.43
1	AA	1251	A	C2'-C1'	-7.53	1.45	1.53
1	AA	1511	G	N7-C5	-7.53	1.34	1.39
26	BB	2496	C	C4-C5	-7.53	1.36	1.43
1	AA	545	C	C2-N3	7.53	1.41	1.35
26	BB	1372	U	P-O5'	7.53	1.67	1.59
26	BB	1446	C	N1-C6	7.53	1.41	1.37
26	BB	2598	A	N1-C2	-7.53	1.27	1.34
26	BB	1855	U	C5-C6	7.53	1.41	1.34
26	BB	2031	A	N7-C5	7.53	1.43	1.39
26	BB	933	A	O3'-P	7.53	1.70	1.61
1	AA	542	G	N9-C8	-7.53	1.32	1.37
1	AA	750	C	N1-C6	7.53	1.41	1.37
26	BB	2670	A	N3-C4	7.53	1.39	1.34
26	BB	2704	C	C4-C5	7.53	1.49	1.43
1	AA	261	U	C2-N3	7.52	1.43	1.37
26	BB	292	U	P-O5'	7.52	1.67	1.59
1	AA	745	G	C2'-C1'	7.52	1.61	1.53
26	BB	53	A	C3'-C2'	7.52	1.61	1.52
26	BB	1472	C	C2-N3	7.52	1.41	1.35
4	AD	7	G	N7-C5	-7.52	1.34	1.39
4	AD	19	G	N9-C4	7.52	1.44	1.38
25	BA	97	C	P-O5'	7.52	1.67	1.59
26	BB	1271	G	C5-C6	7.52	1.49	1.42
1	AA	988	G	C2-N3	7.52	1.38	1.32
1	AA	995	C	C2-N3	7.52	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	39	A	N3-C4	7.52	1.39	1.34
26	BB	2523	G	N9-C8	-7.52	1.32	1.37
26	BB	110	G	N9-C8	7.52	1.43	1.37
26	BB	1927	A	C5-C6	7.52	1.47	1.41
26	BB	2527	C	C5-C6	7.52	1.40	1.34
26	BB	829	A	N3-C4	7.52	1.39	1.34
26	BB	1735	A	N7-C5	-7.52	1.34	1.39
26	BB	2721	A	C5'-C4'	7.52	1.60	1.51
1	AA	149	A	N3-C4	7.51	1.39	1.34
1	AA	575	G	C2-N2	-7.51	1.27	1.34
1	AA	1281	C	C5'-C4'	7.51	1.60	1.51
1	AA	1379	G	P-O5'	7.51	1.67	1.59
26	BB	814	C	N1-C6	7.51	1.41	1.37
26	BB	1138	G	C8-N7	-7.51	1.26	1.30
26	BB	80	G	N3-C4	-7.51	1.30	1.35
26	BB	1229	C	N1-C2	7.51	1.47	1.40
1	AA	1203	C	C4-C5	7.51	1.49	1.43
26	BB	2283	C	C5-C6	7.51	1.40	1.34
26	BB	2839	G	N3-C4	7.51	1.40	1.35
26	BB	502	A	C5-C4	7.51	1.44	1.38
26	BB	1548	A	O3'-P	7.51	1.70	1.61
26	BB	2139	U	C2-O2	7.51	1.29	1.22
1	AA	459	A	P-O5'	7.51	1.67	1.59
1	AA	175	C	C5-C6	7.51	1.40	1.34
1	AA	1122	U	C2-N3	7.51	1.43	1.37
3	AC	32	U	O3'-P	7.51	1.70	1.61
4	AD	13	C	C2-N3	7.51	1.41	1.35
26	BB	1594	U	C5'-C4'	7.51	1.60	1.51
26	BB	631	A	N7-C5	7.50	1.43	1.39
1	AA	1026	G	O4'-C1'	7.50	1.51	1.41
1	AA	1330	U	N1-C6	7.50	1.44	1.38
26	BB	250	G	C5-C4	7.50	1.43	1.38
26	BB	405	U	O4'-C1'	7.50	1.51	1.41
26	BB	2195	U	C2'-C1'	7.50	1.61	1.53
1	AA	1334	G	N9-C8	7.50	1.43	1.37
26	BB	450	G	P-O5'	7.50	1.67	1.59
26	BB	266	G	C2-N3	7.50	1.38	1.32
26	BB	1596	A	N7-C5	7.50	1.43	1.39
1	AA	542	G	C8-N7	-7.50	1.26	1.30
26	BB	2632	A	N3-C4	7.50	1.39	1.34
26	BB	256	A	C4'-O4'	-7.50	1.35	1.45
26	BB	1520	U	C4-C5	7.50	1.50	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2757	A	C8-N7	-7.50	1.26	1.31
1	AA	176	C	P-O5'	7.50	1.67	1.59
26	BB	1503	A	C6-N1	7.50	1.40	1.35
26	BB	1620	G	N9-C4	7.50	1.44	1.38
26	BB	2430	A	N3-C4	7.50	1.39	1.34
1	AA	933	G	N3-C4	7.49	1.40	1.35
1	AA	1338	G	N3-C4	7.49	1.40	1.35
25	BA	106	G	N9-C8	-7.49	1.32	1.37
26	BB	866	A	N3-C4	7.49	1.39	1.34
26	BB	1958	C	N3-C4	-7.49	1.28	1.33
26	BB	2238	G	N1-C2	7.49	1.43	1.37
26	BB	2774	C	C3'-C2'	7.49	1.61	1.52
26	BB	2415	G	C2-N3	7.49	1.38	1.32
1	AA	1353	G	N9-C8	-7.49	1.32	1.37
1	AA	1534	A	C5'-C4'	7.49	1.60	1.51
26	BB	23	G	N1-C2	7.49	1.43	1.37
26	BB	277	G	N9-C4	7.49	1.44	1.38
26	BB	391	A	N3-C4	7.49	1.39	1.34
1	AA	579	A	C4'-O4'	-7.49	1.35	1.45
1	AA	815	A	N3-C4	7.49	1.39	1.34
26	BB	189	G	N9-C8	7.49	1.43	1.37
26	BB	834	G	N7-C5	7.49	1.43	1.39
26	BB	1357	C	N1-C6	-7.49	1.32	1.37
26	BB	2501	C	N3-C4	7.49	1.39	1.33
1	AA	257	G	C5-C6	7.49	1.49	1.42
26	BB	1205	A	P-O5'	7.49	1.67	1.59
1	AA	1089	G	N3-C4	7.49	1.40	1.35
26	BB	2198	A	C8-N7	-7.49	1.26	1.31
1	AA	946	A	N3-C4	7.48	1.39	1.34
26	BB	1238	G	C5'-C4'	7.48	1.60	1.51
1	AA	401	C	O3'-P	7.48	1.70	1.61
1	AA	599	C	C4'-C3'	7.48	1.61	1.53
1	AA	956	U	C4-O4	7.48	1.29	1.23
26	BB	1101	U	N1-C2	7.48	1.45	1.38
26	BB	1611	C	N1-C6	7.48	1.41	1.37
1	AA	1304	G	N7-C5	7.48	1.43	1.39
1	AA	1439	G	P-O5'	7.48	1.67	1.59
1	AA	1493	A	N7-C5	7.48	1.43	1.39
26	BB	2301	C	C5'-C4'	7.48	1.60	1.51
1	AA	408	A	N9-C4	7.48	1.42	1.37
4	AD	9	G	C5'-C4'	7.48	1.60	1.51
26	BB	333	G	O3'-P	7.48	1.70	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2534	A	C5-C4	-7.48	1.33	1.38
26	BB	585	G	N1-C2	7.48	1.43	1.37
26	BB	2866	U	O3'-P	-7.48	1.52	1.61
1	AA	1431	A	C3'-C2'	7.48	1.61	1.52
1	AA	741	G	N1-C2	-7.47	1.31	1.37
1	AA	1441	A	N3-C4	7.47	1.39	1.34
26	BB	204	A	N7-C5	-7.47	1.34	1.39
26	BB	756	A	O3'-P	7.47	1.70	1.61
26	BB	865	C	N1-C6	7.47	1.41	1.37
26	BB	1707	G	C2-N3	7.47	1.38	1.32
30	BF	49	ARG	CZ-NH2	7.47	1.42	1.33
1	AA	124	C	C5-C6	7.47	1.40	1.34
1	AA	1077	G	N9-C8	7.47	1.43	1.37
1	AA	1505	G	C2'-O2'	-7.47	1.31	1.41
3	AC	25	U	N1-C2	7.47	1.45	1.38
26	BB	233	A	N9-C4	-7.47	1.33	1.37
26	BB	801	G	C2-N3	7.47	1.38	1.32
26	BB	868	U	C2-N3	7.47	1.43	1.37
26	BB	1878	G	N9-C4	7.47	1.44	1.38
26	BB	1355	G	N3-C4	7.47	1.40	1.35
1	AA	486	U	P-O5'	7.47	1.67	1.59
1	AA	657	U	C4'-O4'	-7.47	1.35	1.45
1	AA	1301	U	N1-C2	7.47	1.45	1.38
26	BB	225	C	C5-C6	7.47	1.40	1.34
26	BB	278	A	C3'-C2'	-7.47	1.44	1.52
26	BB	376	G	P-O5'	7.47	1.67	1.59
1	AA	1166	G	N1-C2	7.46	1.43	1.37
1	AA	1212	U	C5-C6	7.46	1.40	1.34
26	BB	26	G	P-O5'	7.46	1.67	1.59
26	BB	1237	A	C5'-C4'	7.46	1.60	1.51
26	BB	1403	A	C4'-O4'	-7.46	1.35	1.45
26	BB	1551	A	C4'-O4'	-7.46	1.35	1.45
26	BB	2638	G	N7-C5	7.46	1.43	1.39
1	AA	657	U	C2-N3	7.46	1.43	1.37
26	BB	61	C	P-O5'	7.46	1.67	1.59
26	BB	2091	C	C4-C5	7.46	1.49	1.43
26	BB	2100	G	C6-O6	-7.46	1.17	1.24
1	AA	1362	A	C5-C4	7.46	1.44	1.38
26	BB	2512	C	C4-C5	7.46	1.49	1.43
1	AA	469	C	C4'-C3'	-7.46	1.45	1.53
1	AA	1340	A	P-O5'	7.46	1.67	1.59
25	BA	15	A	C5'-C4'	7.46	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	369	U	C4-C5	7.46	1.50	1.43
26	BB	552	U	C2-O2	7.46	1.29	1.22
26	BB	1935	G	N9-C8	7.46	1.43	1.37
26	BB	2721	A	N3-C4	7.46	1.39	1.34
1	AA	8	A	C6-N1	7.46	1.40	1.35
26	BB	744	U	C2'-C1'	7.45	1.61	1.53
26	BB	821	A	N3-C4	7.45	1.39	1.34
26	BB	829	A	N9-C4	-7.45	1.33	1.37
26	BB	1371	G	N7-C5	7.45	1.43	1.39
26	BB	2376	A	C8-N7	-7.45	1.26	1.31
26	BB	2388	A	C8-N7	-7.45	1.26	1.31
26	BB	2719	G	C2-N3	7.45	1.38	1.32
1	AA	1526	G	C2'-C1'	7.45	1.61	1.53
26	BB	873	C	C3'-C2'	7.45	1.61	1.52
26	BB	1114	C	N1-C6	7.45	1.41	1.37
26	BB	1268	A	C5'-C4'	7.45	1.60	1.51
26	BB	2182	U	C4-O4	-7.45	1.17	1.23
26	BB	2271	G	N9-C8	-7.45	1.32	1.37
26	BB	2849	U	C4-C5	7.45	1.50	1.43
1	AA	572	A	C5-C4	-7.45	1.33	1.38
1	AA	1280	A	O3'-P	7.45	1.70	1.61
3	AC	56	G	N9-C8	7.45	1.43	1.37
26	BB	1148	U	P-O5'	7.45	1.67	1.59
26	BB	2238	G	C6-N1	7.45	1.44	1.39
1	AA	826	C	C5'-C4'	7.45	1.60	1.51
25	BA	73	A	N7-C5	-7.45	1.34	1.39
26	BB	971	G	N3-C4	7.45	1.40	1.35
26	BB	1867	G	C5'-C4'	7.45	1.60	1.51
1	AA	1231	G	C2-N3	-7.44	1.26	1.32
26	BB	874	G	N7-C5	-7.44	1.34	1.39
26	BB	879	G	P-O5'	7.44	1.67	1.59
1	AA	642	A	C8-N7	7.44	1.36	1.31
1	AA	1328	C	C4'-O4'	-7.44	1.35	1.45
3	AC	13	A	C5-C4	-7.44	1.33	1.38
26	BB	1408	G	C6-N1	7.44	1.44	1.39
26	BB	447	A	C6-N1	-7.44	1.30	1.35
26	BB	2362	C	N3-C4	7.44	1.39	1.33
26	BB	187	G	C4'-O4'	-7.44	1.35	1.45
26	BB	1361	G	N9-C8	7.44	1.43	1.37
26	BB	2351	G	O3'-P	7.44	1.70	1.61
26	BB	2619	C	N3-C4	7.44	1.39	1.33
1	AA	577	G	O3'-P	-7.44	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1347	A	N3-C4	7.44	1.39	1.34
26	BB	1596	A	N9-C4	7.44	1.42	1.37
26	BB	2234	G	C2-N3	7.44	1.38	1.32
1	AA	1444	U	C4-C5	7.44	1.50	1.43
26	BB	2414	G	N7-C5	-7.44	1.34	1.39
26	BB	2493	U	C4-C5	7.44	1.50	1.43
26	BB	2740	A	N3-C4	7.44	1.39	1.34
4	AD	16	C	C4-C5	7.43	1.48	1.43
26	BB	2247	A	P-O5'	7.43	1.67	1.59
1	AA	249	U	C3'-C2'	7.43	1.61	1.52
26	BB	177	G	N3-C4	7.43	1.40	1.35
1	AA	1538	C	N1-C6	7.43	1.41	1.37
26	BB	2550	G	P-O5'	7.43	1.67	1.59
1	AA	376	G	P-O5'	7.43	1.67	1.59
26	BB	195	A	C8-N7	-7.43	1.26	1.31
26	BB	960	A	O3'-P	-7.43	1.52	1.61
26	BB	1232	G	N7-C5	-7.43	1.34	1.39
26	BB	1408	G	O3'-P	7.43	1.70	1.61
26	BB	2476	A	C8-N7	-7.43	1.26	1.31
26	BB	2342	C	O3'-P	7.43	1.70	1.61
1	AA	729	A	C5'-C4'	7.43	1.60	1.51
26	BB	543	G	N3-C4	7.43	1.40	1.35
26	BB	1733	G	P-O5'	7.43	1.67	1.59
26	BB	425	G	N3-C4	7.42	1.40	1.35
26	BB	911	A	N7-C5	-7.42	1.34	1.39
26	BB	2031	A	C6-N6	-7.42	1.28	1.33
1	AA	622	A	C4'-O4'	-7.42	1.35	1.45
1	AA	1216	A	C8-N7	7.42	1.36	1.31
26	BB	83	A	C5-C6	7.42	1.47	1.41
26	BB	831	G	N3-C4	7.42	1.40	1.35
26	BB	1480	C	C5'-C4'	7.42	1.60	1.51
1	AA	796	C	C2'-C1'	7.42	1.61	1.53
26	BB	1452	G	N3-C4	7.42	1.40	1.35
26	BB	2068	U	N3-C4	7.42	1.45	1.38
1	AA	155	A	C5-C6	7.42	1.47	1.41
26	BB	1138	G	N7-C5	7.42	1.43	1.39
26	BB	2762	C	P-O5'	7.42	1.67	1.59
4	AD	1	C	N1-C6	7.42	1.41	1.37
25	BA	71	C	N3-C4	7.42	1.39	1.33
26	BB	1196	C	N3-C4	7.42	1.39	1.33
26	BB	1982	U	C3'-C2'	7.42	1.61	1.52
26	BB	2096	C	N1-C6	7.42	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1386	G	C5-C6	7.41	1.49	1.42
26	BB	540	C	N3-C4	7.41	1.39	1.33
26	BB	629	G	C2-N3	7.41	1.38	1.32
26	BB	2680	U	P-O5'	7.41	1.67	1.59
26	BB	2717	C	C4-C5	7.41	1.48	1.43
1	AA	1007	U	C5'-C4'	7.41	1.60	1.51
26	BB	123	G	C4'-O4'	-7.41	1.35	1.45
26	BB	347	A	C2'-C1'	7.41	1.61	1.53
26	BB	982	C	C4'-O4'	-7.41	1.35	1.45
26	BB	2191	A	N3-C4	7.41	1.39	1.34
26	BB	2695	U	P-O5'	-7.41	1.52	1.59
26	BB	2722	G	N7-C5	7.41	1.43	1.39
1	AA	1052	U	N3-C4	7.41	1.45	1.38
1	AA	1463	U	C3'-C2'	7.41	1.61	1.52
1	AA	654	G	C2-N3	7.40	1.38	1.32
26	BB	380	G	C5'-C4'	7.40	1.60	1.51
26	BB	1023	U	C4-C5	7.40	1.50	1.43
1	AA	186	C	C4'-O4'	-7.40	1.35	1.45
1	AA	983	A	C4'-C3'	7.40	1.61	1.53
26	BB	254	G	C6-N1	7.40	1.44	1.39
1	AA	256	U	C5'-C4'	7.40	1.60	1.51
26	BB	2618	G	C2-N3	7.40	1.38	1.32
26	BB	931	U	C5'-C4'	7.40	1.60	1.51
26	BB	1674	G	N7-C5	-7.40	1.34	1.39
26	BB	2039	U	C2-N3	7.40	1.43	1.37
1	AA	1461	G	N3-C4	7.39	1.40	1.35
26	BB	1396	U	C5-C6	7.39	1.40	1.34
26	BB	1717	A	C5-C4	7.39	1.44	1.38
26	BB	2278	A	C8-N7	7.39	1.36	1.31
1	AA	704	A	C6-N6	-7.39	1.28	1.33
26	BB	1028	A	C5-C6	7.39	1.47	1.41
26	BB	1426	G	P-O5'	7.39	1.67	1.59
1	AA	1371	G	C2'-C1'	-7.39	1.45	1.53
26	BB	325	G	N1-C2	7.39	1.43	1.37
26	BB	2861	U	C4-O4	-7.39	1.17	1.23
1	AA	381	C	N1-C6	7.39	1.41	1.37
26	BB	2077	A	N7-C5	7.39	1.43	1.39
1	AA	521	G	C5-C4	7.39	1.43	1.38
2	AB	50	G	N9-C4	-7.39	1.32	1.38
26	BB	1502	A	O3'-P	7.39	1.70	1.61
26	BB	1869	G	P-O5'	7.39	1.67	1.59
26	BB	570	G	C5-C4	-7.38	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2648	G	N9-C8	7.38	1.43	1.37
2	AB	56	C	C5-C6	7.38	1.40	1.34
26	BB	2140	G	C4'-C3'	-7.38	1.45	1.53
1	AA	19	A	N9-C4	7.38	1.42	1.37
26	BB	1359	A	P-O5'	7.38	1.67	1.59
2	AB	71	C	N1-C2	7.38	1.47	1.40
1	AA	1246	A	N3-C4	-7.38	1.30	1.34
4	AD	14	A	N7-C5	7.38	1.43	1.39
26	BB	1869	G	C2-N2	-7.38	1.27	1.34
26	BB	881	G	N7-C5	7.38	1.43	1.39
1	AA	112	G	C8-N7	-7.38	1.26	1.30
26	BB	158	U	C3'-C2'	7.38	1.61	1.52
26	BB	793	A	C5'-C4'	7.38	1.60	1.51
1	AA	431	A	P-O5'	7.37	1.67	1.59
1	AA	832	G	N1-C2	7.37	1.43	1.37
26	BB	2177	C	C5'-C4'	7.37	1.60	1.51
26	BB	2820	A	C4'-C3'	7.37	1.61	1.53
26	BB	2185	U	P-O5'	7.37	1.67	1.59
26	BB	328	U	C3'-C2'	7.37	1.61	1.52
26	BB	752	A	C5-C6	7.37	1.47	1.41
1	AA	1535	C	C5'-C4'	7.37	1.60	1.51
26	BB	256	A	C2'-C1'	-7.37	1.45	1.53
26	BB	2173	A	O4'-C1'	7.37	1.51	1.41
1	AA	220	G	N9-C8	-7.37	1.32	1.37
1	AA	580	C	N1-C6	7.37	1.41	1.37
26	BB	1570	A	N3-C4	7.37	1.39	1.34
1	AA	134	G	N7-C5	7.37	1.43	1.39
26	BB	719	C	C2'-C1'	-7.37	1.45	1.53
3	AC	30	U	C5'-C4'	7.36	1.60	1.51
26	BB	334	C	C5-C6	7.36	1.40	1.34
26	BB	1526	C	N1-C6	7.36	1.41	1.37
26	BB	2114	A	N3-C4	7.36	1.39	1.34
1	AA	1475	G	C2-N3	7.36	1.38	1.32
26	BB	69	C	C2-O2	-7.36	1.17	1.24
26	BB	1514	G	O3'-P	7.36	1.70	1.61
26	BB	2230	G	N1-C2	7.36	1.43	1.37
26	BB	2427	C	C4-C5	7.36	1.48	1.43
26	BB	2769	U	C2-N3	7.36	1.43	1.37
1	AA	900	A	C4'-C3'	7.36	1.61	1.53
26	BB	1036	G	P-O5'	7.36	1.67	1.59
26	BB	2469	A	N3-C4	7.36	1.39	1.34
1	AA	394	G	C2-N2	-7.36	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2812	G	C6-N1	-7.36	1.34	1.39
26	BB	2846	G	N7-C5	-7.36	1.34	1.39
26	BB	978	G	N3-C4	7.35	1.40	1.35
26	BB	1077	A	C6-N6	7.35	1.39	1.33
26	BB	1448	G	C8-N7	-7.35	1.26	1.30
1	AA	1052	U	O3'-P	7.35	1.70	1.61
3	AC	32	U	C2-N3	7.35	1.42	1.37
25	BA	36	C	N1-C6	7.35	1.41	1.37
26	BB	83	A	N3-C4	7.35	1.39	1.34
26	BB	392	U	O4'-C1'	7.35	1.51	1.41
1	AA	1241	G	N1-C2	7.35	1.43	1.37
26	BB	270	A	N7-C5	7.35	1.43	1.39
26	BB	273	G	C2-N3	7.35	1.38	1.32
26	BB	412	A	N7-C5	-7.35	1.34	1.39
26	BB	689	A	P-O5'	7.35	1.67	1.59
26	BB	1288	G	C4'-O4'	-7.35	1.35	1.45
26	BB	1296	G	N3-C4	7.35	1.40	1.35
26	BB	2283	C	C4-C5	7.35	1.48	1.43
26	BB	2361	G	P-O5'	7.35	1.67	1.59
1	AA	494	G	N7-C5	-7.35	1.34	1.39
4	AD	41	C	O3'-P	7.35	1.70	1.61
26	BB	2165	C	P-O5'	7.35	1.67	1.59
1	AA	293	G	P-O5'	7.35	1.67	1.59
1	AA	587	G	N9-C4	7.35	1.43	1.38
26	BB	1350	C	C5-C6	7.34	1.40	1.34
26	BB	2249	U	C4-C5	7.34	1.50	1.43
26	BB	2447	G	C5-C4	-7.34	1.33	1.38
26	BB	900	A	O3'-P	7.34	1.70	1.61
26	BB	2409	G	C8-N7	7.34	1.35	1.30
26	BB	489	G	C6-O6	-7.34	1.17	1.24
26	BB	984	A	C6-N1	-7.34	1.30	1.35
1	AA	615	G	N7-C5	-7.34	1.34	1.39
25	BA	14	U	C2-N3	7.34	1.42	1.37
26	BB	1289	C	C4-C5	-7.34	1.37	1.43
26	BB	2789	C	C2'-C1'	7.34	1.61	1.53
26	BB	134	G	C6-O6	-7.34	1.17	1.24
1	AA	1135	U	P-O5'	7.34	1.67	1.59
25	BA	114	C	N1-C6	7.34	1.41	1.37
26	BB	1601	G	N9-C8	7.34	1.43	1.37
26	BB	1745	A	N3-C4	-7.34	1.30	1.34
26	BB	2862	G	O4'-C1'	7.34	1.51	1.41
1	AA	765	G	C2'-C1'	-7.33	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	971	G	C5-C4	-7.33	1.33	1.38
2	AB	40	C	P-O5'	-7.33	1.52	1.59
26	BB	285	G	C8-N7	-7.33	1.26	1.30
26	BB	1737	G	P-O5'	7.33	1.67	1.59
26	BB	2390	U	C2-N3	7.33	1.42	1.37
26	BB	101	A	N7-C5	-7.33	1.34	1.39
26	BB	1013	C	C5-C6	7.33	1.40	1.34
26	BB	2020	A	O3'-P	7.33	1.70	1.61
26	BB	2056	G	C5-C6	7.33	1.49	1.42
26	BB	2221	G	P-O5'	7.33	1.67	1.59
1	AA	909	A	C6-N6	-7.33	1.28	1.33
26	BB	386	G	N7-C5	7.33	1.43	1.39
26	BB	657	U	N1-C2	7.33	1.45	1.38
26	BB	1377	G	C3'-C2'	7.33	1.61	1.52
26	BB	1711	A	C6-N1	7.33	1.40	1.35
1	AA	281	G	C8-N7	-7.33	1.26	1.30
1	AA	1477	U	C2-N3	7.33	1.42	1.37
26	BB	1423	G	C6-N1	7.33	1.44	1.39
26	BB	1453	A	N7-C5	-7.33	1.34	1.39
25	BA	62	C	C3'-C2'	7.33	1.61	1.52
26	BB	782	A	N7-C5	-7.33	1.34	1.39
26	BB	2891	U	C5'-C4'	7.33	1.60	1.51
1	AA	1044	A	N3-C4	7.33	1.39	1.34
25	BA	62	C	C4'-C3'	7.33	1.61	1.53
26	BB	450	G	N9-C8	-7.33	1.32	1.37
26	BB	1549	A	C8-N7	-7.33	1.26	1.31
1	AA	1046	A	C3'-C2'	7.32	1.61	1.52
26	BB	2572	A	N7-C5	7.32	1.43	1.39
1	AA	812	G	C2-N3	7.32	1.38	1.32
26	BB	1174	U	C4-O4	-7.32	1.17	1.23
1	AA	175	C	N3-C4	-7.32	1.28	1.33
1	AA	586	C	N1-C6	7.32	1.41	1.37
26	BB	370	G	N7-C5	-7.32	1.34	1.39
26	BB	1220	G	N9-C4	-7.32	1.32	1.38
26	BB	1228	G	N1-C2	7.32	1.43	1.37
1	AA	320	A	N9-C4	-7.32	1.33	1.37
1	AA	1008	U	N1-C2	7.32	1.45	1.38
26	BB	65	U	C2-N3	7.32	1.42	1.37
26	BB	1425	G	P-O5'	7.32	1.67	1.59
26	BB	816	C	C4'-O4'	-7.32	1.36	1.45
26	BB	996	A	N3-C4	7.32	1.39	1.34
4	AD	38	A	P-O5'	7.32	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	100	G	N3-C4	7.32	1.40	1.35
26	BB	354	A	N3-C4	7.32	1.39	1.34
1	AA	64	G	P-O5'	7.31	1.67	1.59
1	AA	489	C	N3-C4	7.31	1.39	1.33
26	BB	866	A	C8-N7	-7.31	1.26	1.31
26	BB	1137	G	C8-N7	7.31	1.35	1.30
26	BB	2476	A	C5-C4	-7.31	1.33	1.38
1	AA	697	U	C4-C5	7.31	1.50	1.43
1	AA	1124	G	N7-C5	7.31	1.43	1.39
3	AC	20	G	C8-N7	7.31	1.35	1.30
26	BB	2404	U	C5-C6	7.31	1.40	1.34
1	AA	437	U	C2-N3	7.31	1.42	1.37
1	AA	700	G	C6-O6	-7.31	1.17	1.24
1	AA	836	G	N3-C4	7.31	1.40	1.35
1	AA	1478	U	C2'-C1'	-7.31	1.45	1.53
26	BB	443	A	P-O5'	7.31	1.67	1.59
26	BB	904	G	N9-C8	7.31	1.43	1.37
26	BB	1212	G	N7-C5	-7.31	1.34	1.39
26	BB	2806	C	N1-C6	7.31	1.41	1.37
26	BB	702	U	P-O5'	7.31	1.67	1.59
26	BB	1360	G	P-O5'	7.31	1.67	1.59
26	BB	1808	A	C4'-C3'	7.31	1.61	1.53
26	BB	2385	C	C2'-C1'	7.31	1.61	1.53
1	AA	186	C	N1-C6	-7.31	1.32	1.37
26	BB	371	A	N9-C8	-7.31	1.31	1.37
26	BB	1210	G	N7-C5	-7.31	1.34	1.39
26	BB	2065	C	P-O5'	7.31	1.67	1.59
26	BB	2573	C	N1-C2	-7.31	1.32	1.40
1	AA	1495	U	C2-N3	7.30	1.42	1.37
26	BB	2328	A	N3-C4	7.30	1.39	1.34
26	BB	135	U	N1-C2	7.30	1.45	1.38
26	BB	191	A	C6-N6	7.30	1.39	1.33
26	BB	2783	U	P-O5'	7.30	1.67	1.59
1	AA	715	A	C5-C4	-7.30	1.33	1.38
26	BB	718	A	C8-N7	7.30	1.36	1.31
26	BB	895	U	C4-C5	7.30	1.50	1.43
26	BB	1691	C	N3-C4	7.30	1.39	1.33
26	BB	2866	U	P-O5'	7.30	1.67	1.59
4	AD	42	C	C4-C5	7.30	1.48	1.43
26	BB	2671	G	O3'-P	-7.30	1.52	1.61
28	BD	268	ARG	NE-CZ	7.30	1.42	1.33
1	AA	903	G	C4'-O4'	-7.30	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1063	C	P-O5'	7.30	1.67	1.59
26	BB	2218	G	C6-N1	7.30	1.44	1.39
26	BB	2597	G	C3'-O3'	-7.30	1.31	1.42
26	BB	1588	G	P-O5'	7.29	1.67	1.59
26	BB	2271	G	N7-C5	7.29	1.43	1.39
26	BB	18	U	C4-O4	-7.29	1.17	1.23
26	BB	267	C	N1-C6	-7.29	1.32	1.37
26	BB	2860	A	N7-C5	-7.29	1.34	1.39
1	AA	408	A	N3-C4	7.29	1.39	1.34
26	BB	895	U	C2-N3	7.29	1.42	1.37
26	BB	1900	A	P-O5'	7.29	1.67	1.59
26	BB	2797	U	P-O5'	7.29	1.67	1.59
1	AA	690	G	N1-C2	7.29	1.43	1.37
26	BB	215	G	C3'-C2'	7.29	1.60	1.52
26	BB	625	G	P-O5'	7.29	1.67	1.59
26	BB	666	A	C8-N7	-7.29	1.26	1.31
26	BB	1112	G	N7-C5	7.29	1.43	1.39
26	BB	1365	A	N3-C4	7.29	1.39	1.34
26	BB	176	A	C4'-C3'	7.29	1.61	1.53
26	BB	2202	U	C5-C6	7.29	1.40	1.34
26	BB	2847	U	N1-C6	7.29	1.44	1.38
1	AA	39	G	N7-C5	7.29	1.43	1.39
26	BB	650	C	C5-C6	7.29	1.40	1.34
26	BB	2190	G	N1-C2	7.29	1.43	1.37
1	AA	248	C	C4'-O4'	-7.28	1.36	1.45
1	AA	480	U	P-O5'	7.28	1.67	1.59
1	AA	1510	C	P-O5'	7.28	1.67	1.59
4	AD	53	G	N9-C8	7.28	1.43	1.37
25	BA	12	C	P-O5'	7.28	1.67	1.59
26	BB	478	A	C5-C4	-7.28	1.33	1.38
26	BB	1384	A	C5-C4	7.28	1.43	1.38
1	AA	750	C	C2-N3	7.28	1.41	1.35
26	BB	1036	G	C4'-O4'	-7.28	1.36	1.45
1	AA	1065	U	C2'-O2'	-7.28	1.32	1.41
26	BB	383	C	N1-C6	7.28	1.41	1.37
26	BB	906	U	N1-C2	7.28	1.45	1.38
26	BB	1949	G	N7-C5	-7.28	1.34	1.39
1	AA	969	A	N3-C4	7.28	1.39	1.34
26	BB	487	C	C5-C6	7.28	1.40	1.34
26	BB	1033	U	P-O5'	7.28	1.67	1.59
26	BB	1703	G	C5-C4	-7.28	1.33	1.38
2	AB	5	G	C2'-C1'	7.27	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1931	U	C4-C5	7.27	1.50	1.43
26	BB	2640	G	C5-C4	-7.27	1.33	1.38
1	AA	305	G	N9-C8	-7.27	1.32	1.37
1	AA	660	C	C4-C5	7.27	1.48	1.43
3	AC	26	U	C2'-C1'	-7.27	1.45	1.53
3	AC	42	U	C5-C6	7.27	1.40	1.34
26	BB	2426	A	O3'-P	7.27	1.69	1.61
26	BB	2894	G	N3-C4	7.27	1.40	1.35
1	AA	1173	U	C5'-C4'	7.27	1.60	1.51
4	AD	11	A	N3-C4	7.27	1.39	1.34
26	BB	354	A	C3'-C2'	7.27	1.60	1.52
1	AA	662	U	C4'-O4'	-7.27	1.36	1.45
1	AA	764	C	N1-C6	7.27	1.41	1.37
26	BB	1351	C	N1-C6	7.27	1.41	1.37
26	BB	2085	U	P-O5'	7.27	1.67	1.59
1	AA	876	C	P-O5'	7.26	1.67	1.59
26	BB	2246	G	C2-N3	7.26	1.38	1.32
1	AA	314	C	O4'-C1'	7.26	1.51	1.41
26	BB	2505	G	C8-N7	7.26	1.35	1.30
2	AB	18	G	N9-C4	7.26	1.43	1.38
1	AA	293	G	N9-C8	-7.26	1.32	1.37
1	AA	630	A	C5-C6	7.26	1.47	1.41
26	BB	983	A	C8-N7	-7.26	1.26	1.31
26	BB	2323	G	C2'-C1'	7.26	1.61	1.53
26	BB	2595	G	N1-C2	7.26	1.43	1.37
1	AA	1045	C	C4-N4	7.26	1.40	1.33
26	BB	1347	A	C5'-C4'	7.26	1.60	1.51
25	BA	5	U	P-O5'	7.26	1.67	1.59
1	AA	218	U	P-O5'	7.25	1.67	1.59
1	AA	461	A	C4'-O4'	-7.25	1.36	1.45
1	AA	503	C	C5'-C4'	7.25	1.60	1.51
1	AA	787	A	C5'-C4'	7.25	1.60	1.51
1	AA	1303	C	N3-C4	7.25	1.39	1.33
1	AA	1387	G	C6-N1	7.25	1.44	1.39
2	AB	41	C	P-O5'	7.25	1.67	1.59
26	BB	2204	G	O4'-C1'	7.25	1.51	1.41
1	AA	52	C	C5'-C4'	7.25	1.60	1.51
1	AA	259	G	N7-C5	7.25	1.43	1.39
1	AA	293	G	N3-C4	7.25	1.40	1.35
1	AA	444	G	O3'-P	7.25	1.69	1.61
26	BB	593	U	P-O5'	7.25	1.67	1.59
26	BB	1380	G	C6-N1	7.25	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	604	G	N7-C5	7.25	1.43	1.39
1	AA	920	U	N1-C6	-7.25	1.31	1.38
2	AB	3	G	C4'-O4'	-7.25	1.36	1.45
2	AB	14	A	N9-C4	7.25	1.42	1.37
3	AC	21	U	P-O5'	7.25	1.67	1.59
26	BB	910	A	P-O5'	7.25	1.67	1.59
26	BB	1197	G	C2'-O2'	-7.25	1.32	1.41
26	BB	2549	G	C2'-C1'	-7.25	1.45	1.53
26	BB	1802	A	O3'-P	7.25	1.69	1.61
1	AA	608	A	N7-C5	7.25	1.43	1.39
1	AA	1171	A	N9-C4	7.25	1.42	1.37
1	AA	1139	G	C5'-C4'	7.25	1.60	1.51
1	AA	1504	G	P-O5'	7.24	1.67	1.59
26	BB	1715	G	N3-C4	7.24	1.40	1.35
26	BB	1929	G	C8-N7	-7.24	1.26	1.30
26	BB	130	C	C2-N3	7.24	1.41	1.35
1	AA	237	G	C8-N7	7.24	1.35	1.30
25	BA	111	U	C5-C6	7.24	1.40	1.34
26	BB	351	C	N3-C4	7.24	1.39	1.33
26	BB	1056	G	C4'-C3'	7.24	1.61	1.53
26	BB	1277	G	P-O5'	7.24	1.67	1.59
26	BB	392	U	N3-C4	7.24	1.45	1.38
26	BB	1784	A	O3'-P	7.24	1.69	1.61
26	BB	1872	A	N3-C4	7.24	1.39	1.34
26	BB	452	G	N9-C4	7.24	1.43	1.38
26	BB	1068	G	C2-N3	7.24	1.38	1.32
4	AD	39	A	P-O5'	7.24	1.67	1.59
26	BB	1224	U	N1-C2	7.24	1.45	1.38
26	BB	2040	G	N7-C5	7.24	1.43	1.39
26	BB	2326	C	C2-N3	7.24	1.41	1.35
34	BJ	50	TYR	CE1-CZ	7.24	1.48	1.38
1	AA	520	A	C6-N1	-7.23	1.30	1.35
1	AA	390	U	C2-N3	7.23	1.42	1.37
1	AA	445	G	P-O5'	7.23	1.67	1.59
26	BB	2353	G	C2-N3	7.23	1.38	1.32
26	BB	61	C	N1-C6	7.23	1.41	1.37
26	BB	295	G	C5-C6	7.23	1.49	1.42
26	BB	1711	A	N7-C5	-7.23	1.34	1.39
26	BB	2213	U	C2-N3	7.23	1.42	1.37
26	BB	799	G	C6-N1	7.23	1.44	1.39
26	BB	1664	A	C5-C4	-7.23	1.33	1.38
26	BB	1724	G	N7-C5	7.23	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2088	A	C6-N1	7.23	1.40	1.35
26	BB	2532	G	P-O5'	7.23	1.67	1.59
4	AD	39	A	N9-C4	-7.23	1.33	1.37
26	BB	1789	A	N7-C5	-7.23	1.34	1.39
26	BB	2203	U	P-O5'	7.23	1.67	1.59
1	AA	1455	G	C5-C4	-7.22	1.33	1.38
4	AD	5	G	N9-C8	7.22	1.43	1.37
26	BB	272	A	C8-N7	-7.22	1.26	1.31
26	BB	278	A	N3-C4	7.22	1.39	1.34
26	BB	1877	A	C5'-C4'	-7.22	1.42	1.51
26	BB	2631	G	N9-C4	-7.22	1.32	1.38
1	AA	78	A	P-O5'	7.22	1.67	1.59
1	AA	187	G	N9-C4	-7.22	1.32	1.38
26	BB	541	A	P-O5'	7.22	1.67	1.59
26	BB	595	C	C2-N3	7.22	1.41	1.35
26	BB	2873	A	N3-C4	7.22	1.39	1.34
1	AA	236	A	C6-N1	7.22	1.40	1.35
1	AA	413	G	C5'-C4'	7.22	1.60	1.51
26	BB	395	U	P-O5'	7.22	1.67	1.59
26	BB	1950	G	N3-C4	7.22	1.40	1.35
26	BB	403	U	C4'-O4'	-7.22	1.36	1.45
26	BB	465	G	P-O5'	7.22	1.67	1.59
26	BB	547	A	C5-C4	-7.22	1.33	1.38
26	BB	1055	G	N9-C8	-7.22	1.32	1.37
26	BB	1983	G	C5-C4	7.22	1.43	1.38
26	BB	2006	C	N1-C6	7.22	1.41	1.37
1	AA	346	G	C6-N1	7.22	1.44	1.39
26	BB	989	G	P-O5'	7.22	1.67	1.59
1	AA	779	C	P-O5'	7.22	1.67	1.59
1	AA	1305	G	C2-N3	7.22	1.38	1.32
26	BB	241	A	C8-N7	7.22	1.36	1.31
26	BB	749	A	N9-C4	7.22	1.42	1.37
1	AA	1275	A	C5'-C4'	7.21	1.60	1.51
26	BB	223	A	C8-N7	-7.21	1.26	1.31
26	BB	1607	C	N3-C4	7.21	1.39	1.33
26	BB	1867	G	C2-N3	7.21	1.38	1.32
26	BB	2252	G	C6-N1	7.21	1.44	1.39
26	BB	1935	G	N7-C5	7.21	1.43	1.39
26	BB	2488	G	C8-N7	-7.21	1.26	1.30
1	AA	181	A	C4'-O4'	-7.21	1.36	1.45
26	BB	1257	C	C3'-C2'	-7.21	1.44	1.52
26	BB	2858	C	O4'-C1'	7.21	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1458	G	C3'-C2'	7.21	1.60	1.52
26	BB	636	G	O3'-P	7.21	1.69	1.61
26	BB	2227	A	C5-C4	-7.21	1.33	1.38
26	BB	2347	C	C4-N4	7.21	1.40	1.33
1	AA	421	U	C4-C5	7.20	1.50	1.43
26	BB	847	U	C4'-O4'	-7.20	1.36	1.45
26	BB	1162	G	C8-N7	-7.20	1.26	1.30
1	AA	416	G	C5'-C4'	7.20	1.59	1.51
1	AA	767	A	P-O5'	7.20	1.67	1.59
4	AD	49	C	N1-C6	7.20	1.41	1.37
1	AA	79	G	C6-N1	7.20	1.44	1.39
1	AA	449	G	C2-N3	7.20	1.38	1.32
1	AA	550	G	N7-C5	-7.20	1.34	1.39
1	AA	794	A	C6-N1	-7.20	1.30	1.35
1	AA	1174	G	N7-C5	7.20	1.43	1.39
1	AA	1400	C	O3'-P	7.20	1.69	1.61
26	BB	973	A	N9-C8	-7.20	1.31	1.37
2	AB	28	C	N1-C6	-7.20	1.32	1.37
26	BB	2758	A	O3'-P	7.20	1.69	1.61
1	AA	636	U	C3'-C2'	7.20	1.60	1.52
1	AA	302	G	P-O5'	7.19	1.67	1.59
1	AA	234	C	C2-N3	7.19	1.41	1.35
1	AA	1269	A	P-O5'	7.19	1.67	1.59
26	BB	2	G	C6-N1	7.19	1.44	1.39
41	BQ	94	ARG	NE-CZ	7.19	1.42	1.33
1	AA	1082	A	C8-N7	-7.19	1.26	1.31
1	AA	1318	A	P-O5'	7.19	1.67	1.59
26	BB	1657	U	N1-C2	7.19	1.45	1.38
1	AA	106	C	N1-C6	7.19	1.41	1.37
1	AA	867	G	P-O5'	7.19	1.67	1.59
26	BB	851	C	N1-C2	7.19	1.47	1.40
26	BB	856	G	C2-N3	7.19	1.38	1.32
26	BB	895	U	C5'-C4'	7.19	1.59	1.51
26	BB	2027	G	N3-C4	7.19	1.40	1.35
26	BB	2058	A	C6-N1	-7.19	1.30	1.35
1	AA	578	C	N1-C6	-7.18	1.32	1.37
26	BB	681	G	N9-C8	-7.18	1.32	1.37
1	AA	903	G	C2-N3	7.18	1.38	1.32
1	AA	979	C	C2-N3	7.18	1.41	1.35
3	AC	34	U	C4-C5	7.18	1.50	1.43
26	BB	78	U	C2-N3	7.18	1.42	1.37
26	BB	849	A	C6-N1	7.18	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1808	A	N9-C4	7.18	1.42	1.37
26	BB	1884	G	C8-N7	-7.18	1.26	1.30
26	BB	2628	C	P-O5'	7.18	1.67	1.59
1	AA	412	A	C6-N6	-7.18	1.28	1.33
1	AA	800	G	N3-C4	7.18	1.40	1.35
1	AA	1071	C	N1-C2	7.18	1.47	1.40
26	BB	2681	C	O3'-P	-7.18	1.52	1.61
1	AA	383	A	N3-C4	7.18	1.39	1.34
26	BB	196	A	N9-C4	7.18	1.42	1.37
26	BB	1512	C	P-O5'	7.18	1.67	1.59
26	BB	2886	A	N3-C4	7.18	1.39	1.34
1	AA	1185	G	N9-C4	7.18	1.43	1.38
26	BB	1057	A	N9-C4	7.18	1.42	1.37
26	BB	1076	C	C4'-O4'	-7.18	1.36	1.45
1	AA	846	G	N7-C5	-7.18	1.34	1.39
1	AA	1128	C	N3-C4	7.17	1.39	1.33
26	BB	2019	A	C2-N3	7.17	1.40	1.33
26	BB	2617	U	P-O5'	7.17	1.67	1.59
26	BB	2747	G	C5'-C4'	7.17	1.59	1.51
1	AA	428	G	N1-C2	7.17	1.43	1.37
1	AA	1123	U	C2-N3	7.17	1.42	1.37
1	AA	1219	A	C4'-O4'	-7.17	1.36	1.45
1	AA	1492	A	C4'-O4'	-7.17	1.36	1.45
26	BB	1652	A	N1-C2	-7.17	1.27	1.34
26	BB	1901	A	N7-C5	-7.17	1.34	1.39
26	BB	2066	C	C4-C5	7.17	1.48	1.43
26	BB	1807	G	P-O5'	7.17	1.67	1.59
26	BB	2893	A	C5'-C4'	7.17	1.59	1.51
1	AA	598	U	P-O5'	7.17	1.67	1.59
1	AA	794	A	N3-C4	7.17	1.39	1.34
1	AA	807	A	C8-N7	-7.17	1.26	1.31
1	AA	1356	G	C4'-C3'	7.17	1.61	1.53
26	BB	994	C	C4'-C3'	7.17	1.61	1.53
26	BB	1985	C	C2-N3	-7.17	1.30	1.35
1	AA	1478	U	C4-O4	-7.17	1.18	1.23
26	BB	1079	C	C2'-C1'	-7.17	1.45	1.53
1	AA	145	G	N3-C4	7.16	1.40	1.35
26	BB	775	G	C8-N7	7.16	1.35	1.30
26	BB	2648	G	C4'-O4'	-7.16	1.36	1.45
1	AA	1184	G	C4'-C3'	-7.16	1.45	1.53
26	BB	823	C	C4-C5	7.16	1.48	1.43
26	BB	1502	A	C6-N1	-7.16	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1588	G	C5'-C4'	7.16	1.59	1.51
1	AA	285	C	C5-C6	7.16	1.40	1.34
1	AA	772	U	C2-N3	7.16	1.42	1.37
26	BB	466	A	N3-C4	7.16	1.39	1.34
26	BB	1984	G	N7-C5	7.16	1.43	1.39
1	AA	487	A	N9-C4	-7.16	1.33	1.37
1	AA	1532	U	C5'-C4'	7.16	1.59	1.51
26	BB	2413	G	C6-O6	-7.16	1.17	1.24
1	AA	307	C	C5-C6	7.16	1.40	1.34
26	BB	27	G	O3'-P	7.16	1.69	1.61
26	BB	75	G	N3-C4	7.16	1.40	1.35
1	AA	528	C	C5'-C4'	7.16	1.59	1.51
1	AA	1347	G	C4'-O4'	-7.16	1.36	1.45
26	BB	92	U	C5'-C4'	7.16	1.59	1.51
26	BB	489	G	N7-C5	7.16	1.43	1.39
1	AA	175	C	C2-N3	7.15	1.41	1.35
1	AA	1328	C	P-O5'	7.15	1.67	1.59
26	BB	1120	G	N9-C8	7.15	1.42	1.37
1	AA	939	G	C6-N1	-7.15	1.34	1.39
1	AA	1291	U	P-O5'	7.15	1.67	1.59
26	BB	659	G	N9-C8	-7.15	1.32	1.37
26	BB	2386	A	C5'-C4'	7.15	1.59	1.51
1	AA	939	G	C5-C6	7.15	1.49	1.42
25	BA	8	C	C4'-O4'	-7.15	1.36	1.45
26	BB	186	G	C5'-C4'	7.15	1.59	1.51
26	BB	214	G	N9-C8	7.15	1.42	1.37
26	BB	736	C	O3'-P	7.15	1.69	1.61
26	BB	752	A	C2'-O2'	7.15	1.50	1.41
26	BB	848	C	N1-C6	7.15	1.41	1.37
26	BB	2767	C	P-O5'	7.15	1.67	1.59
2	AB	21	A	P-O5'	-7.15	1.52	1.59
26	BB	760	G	C2-N3	7.15	1.38	1.32
26	BB	20	C	C4'-C3'	-7.15	1.45	1.53
26	BB	332	A	C4'-O4'	-7.15	1.36	1.45
26	BB	723	C	C2-O2	-7.15	1.18	1.24
26	BB	2364	C	N1-C6	7.15	1.41	1.37
26	BB	1373	A	C5'-C4'	7.15	1.59	1.51
1	AA	1311	A	N9-C4	7.14	1.42	1.37
3	AC	52	U	N1-C2	7.14	1.45	1.38
1	AA	389	A	N3-C4	7.14	1.39	1.34
1	AA	533	A	C4'-C3'	7.14	1.61	1.53
1	AA	922	G	N3-C4	7.14	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1320	C	C4'-C3'	7.14	1.61	1.53
4	AD	11	A	C4'-O4'	-7.14	1.36	1.45
26	BB	2491	U	C4-C5	7.14	1.50	1.43
26	BB	1623	G	C2-N3	7.14	1.38	1.32
1	AA	1122	U	O3'-P	7.14	1.69	1.61
3	AC	50	U	N1-C2	7.14	1.45	1.38
26	BB	348	A	P-O5'	7.14	1.66	1.59
26	BB	2830	C	O4'-C1'	7.14	1.50	1.41
26	BB	2872	A	N3-C4	7.14	1.39	1.34
3	AC	49	U	N1-C2	7.14	1.45	1.38
26	BB	960	A	C8-N7	-7.14	1.26	1.31
26	BB	712	G	N9-C4	7.14	1.43	1.38
26	BB	2396	G	N1-C2	7.14	1.43	1.37
26	BB	1298	C	C4'-O4'	-7.13	1.36	1.45
26	BB	1534	U	C2-N3	-7.13	1.32	1.37
26	BB	2301	C	C2'-O2'	-7.13	1.32	1.41
1	AA	197	A	C5-C6	7.13	1.47	1.41
1	AA	257	G	C6-O6	-7.13	1.17	1.24
26	BB	2083	G	N9-C8	7.13	1.42	1.37
26	BB	2846	G	C2-N3	7.13	1.38	1.32
2	AB	50	G	C4'-O4'	-7.13	1.36	1.45
26	BB	246	C	C5-C6	7.13	1.40	1.34
26	BB	633	A	N3-C4	7.13	1.39	1.34
1	AA	901	A	C5'-C4'	7.13	1.59	1.51
1	AA	1001	C	N1-C6	-7.13	1.32	1.37
1	AA	1079	G	N9-C8	7.13	1.42	1.37
1	AA	1337	G	C8-N7	-7.13	1.26	1.30
2	AB	57	G	N3-C4	7.13	1.40	1.35
26	BB	181	A	C6-N6	7.13	1.39	1.33
26	BB	676	A	C6-N6	7.13	1.39	1.33
26	BB	1236	G	P-O5'	7.13	1.66	1.59
26	BB	1798	U	C2'-C1'	7.13	1.61	1.53
1	AA	610	U	C2-N3	7.12	1.42	1.37
26	BB	848	C	C5-C6	7.12	1.40	1.34
26	BB	854	C	N3-C4	-7.12	1.28	1.33
1	AA	807	A	N9-C8	7.12	1.43	1.37
1	AA	1420	U	C2-O2	7.12	1.28	1.22
1	AA	1512	U	C4-O4	-7.12	1.18	1.23
25	BA	93	C	N1-C6	7.12	1.41	1.37
26	BB	439	A	N7-C5	7.12	1.43	1.39
26	BB	1206	G	N9-C8	7.12	1.42	1.37
26	BB	2501	C	N1-C6	7.12	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2752	C	P-O5'	-7.12	1.52	1.59
1	AA	82	G	C6-N1	7.12	1.44	1.39
26	BB	2298	A	N3-C4	7.12	1.39	1.34
1	AA	1320	C	C4'-O4'	-7.12	1.36	1.45
26	BB	2448	A	C4'-O4'	-7.12	1.36	1.45
26	BB	704	G	C8-N7	-7.12	1.26	1.30
26	BB	1492	G	N1-C2	7.12	1.43	1.37
26	BB	1558	C	N3-C4	7.12	1.39	1.33
1	AA	32	A	N9-C4	-7.11	1.33	1.37
26	BB	2237	G	C2-N3	7.11	1.38	1.32
1	AA	1056	U	C4-C5	7.11	1.50	1.43
26	BB	1027	A	C8-N7	-7.11	1.26	1.31
26	BB	2205	A	N3-C4	7.11	1.39	1.34
26	BB	2887	A	N9-C4	7.11	1.42	1.37
1	AA	355	C	C5'-C4'	7.11	1.59	1.51
26	BB	2217	G	C2-N3	7.11	1.38	1.32
1	AA	1432	G	N1-C2	7.11	1.43	1.37
26	BB	120	U	N1-C6	7.11	1.44	1.38
26	BB	175	G	N9-C4	7.11	1.43	1.38
26	BB	616	A	C6-N6	7.11	1.39	1.33
26	BB	1569	A	P-O5'	7.11	1.66	1.59
26	BB	1613	G	C4'-O4'	-7.11	1.36	1.45
1	AA	728	A	C6-N1	7.11	1.40	1.35
26	BB	2016	U	C5-C6	7.11	1.40	1.34
1	AA	438	U	O4'-C1'	7.10	1.50	1.41
1	AA	168	G	N3-C4	7.10	1.40	1.35
1	AA	856	C	N3-C4	-7.10	1.28	1.33
4	AD	3	C	O4'-C1'	7.10	1.50	1.41
25	BA	44	G	N7-C5	-7.10	1.34	1.39
26	BB	476	G	N3-C4	7.10	1.40	1.35
1	AA	172	A	N9-C8	7.10	1.43	1.37
1	AA	691	G	C5'-C4'	7.10	1.59	1.51
1	AA	204	G	C2'-C1'	-7.10	1.45	1.53
26	BB	597	G	N9-C4	7.10	1.43	1.38
1	AA	466	A	C4'-O4'	-7.10	1.36	1.45
1	AA	550	G	C5-C4	7.10	1.43	1.38
1	AA	870	U	C5-C6	7.10	1.40	1.34
1	AA	1152	A	C4'-O4'	-7.10	1.36	1.45
4	AD	43	G	C8-N7	-7.10	1.26	1.30
1	AA	361	G	C8-N7	7.10	1.35	1.30
26	BB	604	G	C5'-C4'	7.10	1.59	1.51
26	BB	714	U	C2'-C1'	7.10	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1336	A	C5'-C4'	7.09	1.59	1.51
26	BB	1608	A	N9-C4	7.09	1.42	1.37
26	BB	2486	C	P-O5'	7.09	1.66	1.59
26	BB	2529	G	C5'-C4'	7.09	1.59	1.51
26	BB	2847	U	N1-C2	7.09	1.45	1.38
4	AD	50	G	C2-N3	7.09	1.38	1.32
26	BB	1777	U	C4'-O4'	-7.09	1.36	1.45
26	BB	1829	A	N7-C5	-7.09	1.34	1.39
26	BB	2308	G	N3-C4	-7.09	1.30	1.35
1	AA	84	U	N3-C4	7.09	1.44	1.38
26	BB	307	G	O3'-P	7.09	1.69	1.61
1	AA	778	G	C6-N1	7.09	1.44	1.39
26	BB	1954	G	N7-C5	-7.09	1.34	1.39
26	BB	2768	U	C2'-C1'	7.09	1.61	1.53
1	AA	90	C	N1-C6	7.08	1.41	1.37
1	AA	597	G	C2-N3	7.08	1.38	1.32
1	AA	1013	G	P-O5'	7.08	1.66	1.59
26	BB	643	A	C6-N6	7.08	1.39	1.33
26	BB	751	A	C8-N7	-7.08	1.26	1.31
26	BB	1108	U	O3'-P	7.08	1.69	1.61
26	BB	1901	A	C5-C4	7.08	1.43	1.38
1	AA	839	C	C4'-O4'	-7.08	1.36	1.45
1	AA	862	C	C5'-C4'	7.08	1.59	1.51
26	BB	69	C	C4'-O4'	-7.08	1.36	1.45
26	BB	136	G	N3-C4	7.08	1.40	1.35
26	BB	2038	G	C5-C4	7.08	1.43	1.38
26	BB	1654	A	C4'-C3'	7.08	1.60	1.53
26	BB	1687	G	C8-N7	7.08	1.35	1.30
26	BB	265	A	N3-C4	7.08	1.39	1.34
26	BB	1451	C	C4'-O4'	-7.08	1.36	1.45
26	BB	2866	U	C4-O4	-7.08	1.18	1.23
1	AA	489	C	C4'-C3'	7.08	1.60	1.53
26	BB	1526	C	N3-C4	7.08	1.39	1.33
26	BB	1844	C	C3'-C2'	-7.08	1.45	1.52
1	AA	559	A	N3-C4	7.08	1.39	1.34
1	AA	1160	G	C2'-C1'	-7.08	1.45	1.53
1	AA	1431	A	C6-N6	7.08	1.39	1.33
26	BB	559	G	C6-O6	-7.08	1.17	1.24
26	BB	1552	A	N9-C4	7.08	1.42	1.37
1	AA	654	G	N9-C4	7.07	1.43	1.38
26	BB	1068	G	P-O5'	7.07	1.66	1.59
1	AA	833	G	P-O5'	7.07	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1140	C	C4-C5	-7.07	1.37	1.43
1	AA	900	A	O3'-P	7.07	1.69	1.61
1	AA	1253	G	C2-N3	7.07	1.38	1.32
25	BA	94	A	C5-C6	7.07	1.47	1.41
26	BB	334	C	O3'-P	7.07	1.69	1.61
26	BB	1112	G	C4'-O4'	-7.07	1.36	1.45
26	BB	2403	C	N3-C4	7.07	1.38	1.33
26	BB	1521	G	C5-C4	7.07	1.43	1.38
26	BB	1712	U	N1-C2	7.07	1.45	1.38
26	BB	1814	G	P-O5'	7.07	1.66	1.59
1	AA	137	U	C4-C5	7.07	1.50	1.43
1	AA	289	G	N1-C2	7.07	1.43	1.37
1	AA	630	A	O3'-P	7.07	1.69	1.61
1	AA	1522	U	N3-C4	7.07	1.44	1.38
1	AA	544	G	N7-C5	7.07	1.43	1.39
26	BB	141	G	C5-C4	-7.07	1.33	1.38
26	BB	1603	A	N9-C4	-7.07	1.33	1.37
26	BB	1784	A	C3'-C2'	7.07	1.60	1.52
1	AA	836	G	C2-N3	7.06	1.38	1.32
1	AA	1375	A	O3'-P	7.06	1.69	1.61
26	BB	776	G	C4'-C3'	7.06	1.60	1.53
26	BB	1824	G	C4'-O4'	-7.06	1.36	1.45
26	BB	2195	U	C5-C6	7.06	1.40	1.34
1	AA	6	G	C6-N1	7.06	1.44	1.39
1	AA	104	G	N1-C2	7.06	1.43	1.37
1	AA	427	U	N1-C6	7.06	1.44	1.38
3	AC	47	C	C4-C5	7.06	1.48	1.43
3	AC	50	U	C3'-O3'	7.06	1.52	1.42
26	BB	2176	A	N3-C4	7.06	1.39	1.34
1	AA	1039	G	C5'-C4'	7.06	1.59	1.51
1	AA	1312	G	N9-C8	-7.06	1.32	1.37
26	BB	2718	G	N1-C2	7.06	1.43	1.37
1	AA	157	U	C4-C5	7.06	1.50	1.43
1	AA	725	G	C8-N7	-7.06	1.26	1.30
26	BB	713	G	O3'-P	7.06	1.69	1.61
26	BB	753	A	P-O5'	7.06	1.66	1.59
2	AB	33	U	C5'-C4'	7.06	1.59	1.51
1	AA	259	G	C8-N7	7.06	1.35	1.30
4	AD	64	G	O4'-C1'	7.06	1.50	1.41
26	BB	1222	U	C5-C6	7.06	1.40	1.34
1	AA	7	A	C1'-N9	7.05	1.59	1.48
1	AA	327	A	C2'-C1'	-7.05	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	633	G	N1-C2	7.05	1.43	1.37
1	AA	917	G	N9-C4	7.05	1.43	1.38
1	AA	1263	C	C5-C6	7.05	1.40	1.34
26	BB	695	G	P-O5'	7.05	1.66	1.59
26	BB	1698	A	N9-C8	-7.05	1.32	1.37
26	BB	1907	G	C6-N1	-7.05	1.34	1.39
26	BB	2244	U	C4-C5	7.05	1.49	1.43
26	BB	2416	C	O3'-P	7.05	1.69	1.61
26	BB	2700	A	C5-C4	-7.05	1.33	1.38
26	BB	1006	C	C4-C5	7.05	1.48	1.43
26	BB	1359	A	C4'-O4'	-7.05	1.36	1.45
26	BB	2019	A	N9-C4	-7.05	1.33	1.37
26	BB	618	G	C8-N7	-7.05	1.26	1.30
1	AA	18	C	N1-C6	-7.05	1.32	1.37
1	AA	74	A	O3'-P	7.05	1.69	1.61
1	AA	961	U	C3'-C2'	-7.05	1.45	1.52
1	AA	1057	G	N9-C8	7.05	1.42	1.37
1	AA	1146	A	C6-N6	7.05	1.39	1.33
26	BB	2347	C	C5-C6	7.05	1.40	1.34
26	BB	2764	A	C4'-O4'	-7.05	1.36	1.45
1	AA	1428	A	C4'-O4'	-7.05	1.36	1.45
26	BB	1777	U	C4-C5	7.05	1.49	1.43
1	AA	1004	A	C2-N3	7.05	1.39	1.33
1	AA	1285	A	C5'-C4'	7.05	1.59	1.51
25	BA	2	G	C6-N1	7.05	1.44	1.39
26	BB	180	G	N9-C4	7.05	1.43	1.38
26	BB	885	C	C2-N3	7.05	1.41	1.35
26	BB	1179	G	N7-C5	7.05	1.43	1.39
26	BB	2092	U	N1-C2	7.05	1.44	1.38
26	BB	2433	A	O4'-C1'	7.05	1.50	1.41
26	BB	2836	U	P-O5'	7.05	1.66	1.59
26	BB	726	G	C5'-C4'	7.04	1.59	1.51
26	BB	985	C	C4-C5	7.04	1.48	1.43
26	BB	2212	A	N9-C4	7.04	1.42	1.37
1	AA	1302	C	N1-C6	7.04	1.41	1.37
1	AA	1347	G	N9-C4	-7.04	1.32	1.38
1	AA	1368	A	N9-C4	7.04	1.42	1.37
26	BB	1197	G	N3-C4	-7.04	1.30	1.35
26	BB	2765	A	O3'-P	7.04	1.69	1.61
26	BB	2802	G	N1-C2	7.04	1.43	1.37
1	AA	198	G	N7-C5	7.04	1.43	1.39
1	AA	949	A	N3-C4	7.04	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1106	G	C3'-C2'	-7.04	1.45	1.52
1	AA	1264	U	P-O5'	7.04	1.66	1.59
25	BA	39	A	N1-C2	7.04	1.40	1.34
25	BA	49	C	P-O5'	-7.04	1.52	1.59
26	BB	2	G	O3'-P	-7.04	1.52	1.61
26	BB	371	A	C8-N7	-7.04	1.26	1.31
26	BB	1500	G	C2-N3	7.04	1.38	1.32
26	BB	2148	G	C2-N3	7.04	1.38	1.32
26	BB	2248	C	N1-C6	7.04	1.41	1.37
1	AA	851	G	N9-C4	-7.04	1.32	1.38
1	AA	1364	U	N3-C4	7.04	1.44	1.38
1	AA	1501	C	P-O5'	7.04	1.66	1.59
26	BB	1412	U	P-O5'	7.04	1.66	1.59
26	BB	2749	A	C6-N1	-7.04	1.30	1.35
26	BB	2838	G	C2-N3	7.04	1.38	1.32
25	BA	94	A	N9-C4	7.04	1.42	1.37
26	BB	226	A	C5'-C4'	7.04	1.59	1.51
26	BB	289	G	N7-C5	-7.04	1.35	1.39
26	BB	528	A	N3-C4	7.04	1.39	1.34
1	AA	962	C	P-O5'	7.04	1.66	1.59
1	AA	1374	A	N1-C2	7.04	1.40	1.34
26	BB	785	G	N9-C8	-7.04	1.32	1.37
26	BB	958	U	N1-C2	7.04	1.44	1.38
26	BB	1794	A	N3-C4	7.04	1.39	1.34
26	BB	2582	G	C5'-C4'	7.04	1.59	1.51
1	AA	357	G	N9-C8	-7.03	1.32	1.37
1	AA	534	U	P-O5'	7.03	1.66	1.59
1	AA	877	G	C5-C4	7.03	1.43	1.38
26	BB	85	G	N9-C8	7.03	1.42	1.37
26	BB	1676	A	N3-C4	7.03	1.39	1.34
26	BB	1873	G	N3-C4	7.03	1.40	1.35
26	BB	1914	C	C4-C5	7.03	1.48	1.43
26	BB	2382	G	N3-C4	7.03	1.40	1.35
1	AA	780	A	N1-C2	-7.03	1.28	1.34
1	AA	1179	A	N9-C8	-7.03	1.32	1.37
26	BB	2606	C	P-O5'	7.03	1.66	1.59
1	AA	1182	G	N3-C4	7.03	1.40	1.35
26	BB	677	A	C6-N1	-7.03	1.30	1.35
1	AA	305	G	N3-C4	7.03	1.40	1.35
4	AD	28	U	N1-C6	-7.03	1.31	1.38
26	BB	545	U	N1-C2	7.03	1.44	1.38
26	BB	2211	A	C6-N6	7.03	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	796	C	N1-C2	7.03	1.47	1.40
1	AA	1139	G	C2-N3	7.03	1.38	1.32
1	AA	308	C	C5'-C4'	7.03	1.59	1.51
1	AA	507	C	P-O5'	7.03	1.66	1.59
1	AA	586	C	N3-C4	-7.03	1.29	1.33
1	AA	794	A	N9-C4	7.03	1.42	1.37
26	BB	610	C	C5'-C4'	7.03	1.59	1.51
26	BB	1680	U	C2-N3	7.03	1.42	1.37
1	AA	321	A	N7-C5	7.02	1.43	1.39
26	BB	938	G	N1-C2	7.02	1.43	1.37
26	BB	2791	G	P-O5'	7.02	1.66	1.59
2	AB	59	G	N7-C5	-7.02	1.35	1.39
26	BB	683	U	C2-N3	7.02	1.42	1.37
1	AA	635	A	N9-C4	7.02	1.42	1.37
1	AA	655	A	P-O5'	7.02	1.66	1.59
26	BB	98	G	C3'-C2'	-7.02	1.45	1.52
26	BB	280	U	C4'-O4'	-7.02	1.36	1.45
26	BB	2623	G	N3-C4	-7.02	1.30	1.35
26	BB	2747	G	P-O5'	7.02	1.66	1.59
26	BB	655	A	C4'-O4'	-7.02	1.36	1.45
26	BB	1218	G	P-O5'	7.02	1.66	1.59
26	BB	1805	A	C8-N7	-7.02	1.26	1.31
26	BB	1843	C	N1-C6	7.02	1.41	1.37
1	AA	592	G	C5'-C4'	7.02	1.59	1.51
26	BB	493	G	C2-N3	7.02	1.38	1.32
26	BB	275	C	C5-C6	7.01	1.40	1.34
26	BB	1807	G	N9-C4	7.01	1.43	1.38
26	BB	2530	A	N9-C8	-7.01	1.32	1.37
1	AA	78	A	C4'-O4'	-7.01	1.36	1.45
26	BB	30	G	C6-O6	-7.01	1.17	1.24
26	BB	297	G	N9-C4	-7.01	1.32	1.38
1	AA	913	A	N3-C4	7.01	1.39	1.34
1	AA	1053	G	N3-C4	7.01	1.40	1.35
26	BB	317	G	C2-N3	7.01	1.38	1.32
26	BB	333	G	N1-C2	7.01	1.43	1.37
1	AA	898	G	C4'-O4'	-7.01	1.36	1.45
12	AL	89	TYR	CG-CD2	7.01	1.48	1.39
26	BB	562	U	P-O5'	7.01	1.66	1.59
26	BB	2127	G	N7-C5	7.01	1.43	1.39
26	BB	2714	G	C8-N7	-7.01	1.26	1.30
26	BB	2799	A	N3-C4	7.01	1.39	1.34
1	AA	193	C	C5-C6	7.00	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	28	C	C4'-C3'	7.00	1.60	1.53
26	BB	2590	A	N7-C5	-7.00	1.35	1.39
1	AA	365	U	C2-N3	7.00	1.42	1.37
1	AA	976	G	N7-C5	7.00	1.43	1.39
1	AA	1300	G	N9-C4	-7.00	1.32	1.38
1	AA	1332	A	P-O5'	7.00	1.66	1.59
26	BB	199	A	C8-N7	-7.00	1.26	1.31
26	BB	1860	G	N9-C8	7.00	1.42	1.37
26	BB	2570	G	N7-C5	7.00	1.43	1.39
26	BB	2757	A	N9-C8	7.00	1.43	1.37
26	BB	2759	G	N7-C5	7.00	1.43	1.39
1	AA	565	U	C3'-C2'	7.00	1.60	1.52
1	AA	616	G	N9-C8	-7.00	1.32	1.37
1	AA	893	C	C4'-O4'	-7.00	1.36	1.45
1	AA	1384	C	C4'-O4'	-7.00	1.36	1.45
26	BB	252	G	N7-C5	-7.00	1.35	1.39
26	BB	1804	C	N3-C4	7.00	1.38	1.33
26	BB	1375	U	C4'-O4'	-7.00	1.36	1.45
1	AA	1534	A	N3-C4	7.00	1.39	1.34
26	BB	1852	U	C2-N3	7.00	1.42	1.37
1	AA	699	C	C5-C6	7.00	1.40	1.34
25	BA	36	C	O3'-P	7.00	1.69	1.61
26	BB	1022	G	N7-C5	-7.00	1.35	1.39
26	BB	1844	C	N1-C6	7.00	1.41	1.37
26	BB	1899	A	C4'-C3'	7.00	1.60	1.53
1	AA	305	G	C5-C6	7.00	1.49	1.42
26	BB	1580	A	O3'-P	7.00	1.69	1.61
1	AA	413	G	C8-N7	-6.99	1.26	1.30
1	AA	1484	C	N1-C6	6.99	1.41	1.37
25	BA	115	A	P-O5'	6.99	1.66	1.59
26	BB	95	A	N1-C2	-6.99	1.28	1.34
26	BB	444	C	C4'-O4'	-6.99	1.36	1.45
26	BB	1041	G	N7-C5	6.99	1.43	1.39
26	BB	1840	G	C8-N7	6.99	1.35	1.30
1	AA	172	A	N7-C5	6.99	1.43	1.39
25	BA	34	A	O3'-P	6.99	1.69	1.61
26	BB	1844	C	C4-C5	6.99	1.48	1.43
1	AA	519	C	C5-C6	6.99	1.40	1.34
26	BB	544	C	P-O5'	6.99	1.66	1.59
26	BB	920	A	P-O5'	6.99	1.66	1.59
26	BB	1777	U	C2-O2	6.99	1.28	1.22
1	AA	13	U	N1-C6	6.99	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1472	U	C2-N3	6.99	1.42	1.37
26	BB	690	G	C6-N1	6.99	1.44	1.39
26	BB	873	C	N1-C6	6.99	1.41	1.37
26	BB	924	G	P-O5'	6.99	1.66	1.59
26	BB	2741	A	C5-C4	-6.99	1.33	1.38
26	BB	559	G	C6-N1	6.99	1.44	1.39
1	AA	11	G	C3'-C2'	6.99	1.60	1.52
1	AA	112	G	P-O5'	6.99	1.66	1.59
4	AD	4	G	P-O5'	6.99	1.66	1.59
26	BB	376	G	N7-C5	-6.99	1.35	1.39
26	BB	1165	A	N7-C5	-6.99	1.35	1.39
26	BB	1400	U	C4'-O4'	-6.99	1.36	1.45
26	BB	1811	G	C5-C4	-6.99	1.33	1.38
26	BB	1840	G	N9-C4	6.99	1.43	1.38
1	AA	867	G	C6-N1	-6.98	1.34	1.39
1	AA	1152	A	C6-N6	6.98	1.39	1.33
1	AA	1314	C	C5-C6	6.98	1.40	1.34
1	AA	836	G	C3'-C2'	6.98	1.60	1.52
1	AA	1527	U	C3'-C2'	-6.98	1.45	1.52
26	BB	78	U	C3'-O3'	-6.98	1.32	1.42
26	BB	126	A	C4'-O4'	-6.98	1.36	1.45
26	BB	261	G	C8-N7	6.98	1.35	1.30
26	BB	1556	C	N3-C4	-6.98	1.29	1.33
1	AA	305	G	P-O5'	6.98	1.66	1.59
1	AA	719	C	P-O5'	6.98	1.66	1.59
1	AA	1194	U	N1-C2	6.98	1.44	1.38
1	AA	1404	C	N1-C6	6.98	1.41	1.37
26	BB	789	A	O3'-P	-6.98	1.52	1.61
26	BB	1429	G	N3-C4	6.98	1.40	1.35
26	BB	2738	A	O4'-C1'	6.98	1.50	1.41
1	AA	377	G	C5-C4	-6.98	1.33	1.38
1	AA	479	U	N3-C4	6.98	1.44	1.38
26	BB	598	U	C2-O2	6.98	1.28	1.22
26	BB	1394	U	C5'-C4'	6.98	1.59	1.51
1	AA	502	A	C5-C6	6.98	1.47	1.41
1	AA	567	G	C4'-O4'	-6.98	1.36	1.45
1	AA	658	C	C2-N3	6.98	1.41	1.35
1	AA	659	U	N1-C2	6.98	1.44	1.38
1	AA	1014	A	N7-C5	6.98	1.43	1.39
1	AA	122	G	C6-N1	6.98	1.44	1.39
26	BB	2014	A	P-O5'	6.98	1.66	1.59
1	AA	270	A	C6-N1	-6.97	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2374	C	N3-C4	6.97	1.38	1.33
26	BB	2547	A	C6-N1	-6.97	1.30	1.35
26	BB	2803	G	N9-C8	-6.97	1.32	1.37
1	AA	6	G	N3-C4	6.97	1.40	1.35
1	AA	470	C	N1-C6	-6.97	1.32	1.37
1	AA	810	C	N1-C6	6.97	1.41	1.37
2	AB	66	C	C4'-O4'	-6.97	1.36	1.45
26	BB	772	C	C4'-O4'	-6.97	1.36	1.45
26	BB	969	G	C2-N3	6.97	1.38	1.32
26	BB	1510	G	C2-N3	6.97	1.38	1.32
26	BB	1753	G	C8-N7	-6.97	1.26	1.30
26	BB	1647	U	N1-C2	6.97	1.44	1.38
26	BB	2664	G	C5-C6	6.97	1.49	1.42
26	BB	1212	G	N3-C4	6.97	1.40	1.35
26	BB	1784	A	P-O5'	6.97	1.66	1.59
1	AA	347	G	C6-O6	-6.97	1.17	1.24
1	AA	469	C	O3'-P	6.97	1.69	1.61
1	AA	1257	A	C5-C6	6.97	1.47	1.41
26	BB	342	A	N9-C4	6.97	1.42	1.37
26	BB	1701	A	N9-C4	-6.97	1.33	1.37
26	BB	859	G	P-O5'	6.97	1.66	1.59
26	BB	908	C	P-O5'	6.97	1.66	1.59
26	BB	1158	C	C3'-C2'	6.97	1.60	1.52
26	BB	2147	A	N3-C4	6.97	1.39	1.34
1	AA	859	G	N1-C2	6.96	1.43	1.37
3	AC	17	U	P-O5'	6.96	1.66	1.59
26	BB	804	A	C6-N1	6.96	1.40	1.35
26	BB	111	A	C5-C4	-6.96	1.33	1.38
26	BB	2636	C	N1-C6	6.96	1.41	1.37
1	AA	977	A	C5-C4	-6.96	1.33	1.38
1	AA	1296	C	N1-C6	6.96	1.41	1.37
1	AA	1311	A	C5'-C4'	6.96	1.59	1.51
26	BB	331	C	C5-C6	6.96	1.40	1.34
26	BB	1451	C	N1-C6	6.96	1.41	1.37
26	BB	1877	A	N7-C5	6.96	1.43	1.39
1	AA	181	A	C5'-C4'	6.96	1.59	1.51
1	AA	387	U	C2-N3	-6.96	1.32	1.37
1	AA	576	C	N1-C6	6.96	1.41	1.37
26	BB	476	G	N7-C5	-6.96	1.35	1.39
26	BB	676	A	N3-C4	6.96	1.39	1.34
26	BB	1275	A	C3'-C2'	6.96	1.60	1.52
1	AA	509	A	C6-N6	6.96	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	34	U	C2-O2	6.96	1.28	1.22
3	AC	59	A	P-O5'	-6.95	1.52	1.59
26	BB	2677	G	C8-N7	6.95	1.35	1.30
1	AA	1351	U	C4'-C3'	-6.95	1.45	1.53
1	AA	476	U	C2'-C1'	-6.95	1.45	1.53
26	BB	2646	C	C5-C6	6.95	1.40	1.34
1	AA	891	U	C4-O4	-6.95	1.18	1.23
2	AB	63	C	C4'-C3'	6.95	1.60	1.53
26	BB	684	G	N9-C8	-6.95	1.32	1.37
26	BB	2662	A	N9-C4	6.95	1.42	1.37
1	AA	453	G	O3'-P	6.95	1.69	1.61
1	AA	622	A	C6-N6	6.95	1.39	1.33
1	AA	834	U	C4'-O4'	-6.95	1.36	1.45
26	BB	346	A	C4'-O4'	-6.95	1.36	1.45
26	BB	414	C	C4-C5	6.95	1.48	1.43
26	BB	668	A	C4'-O4'	-6.95	1.36	1.45
26	BB	983	A	N7-C5	6.95	1.43	1.39
26	BB	1973	G	P-O5'	6.95	1.66	1.59
1	AA	881	G	N1-C2	6.94	1.43	1.37
26	BB	1132	U	C4-C5	6.94	1.49	1.43
1	AA	362	G	N1-C2	6.94	1.43	1.37
1	AA	870	U	C5'-C4'	6.94	1.59	1.51
3	AC	57	C	C2'-O2'	6.94	1.50	1.41
1	AA	905	U	C4-C5	6.94	1.49	1.43
1	AA	1179	A	N9-C4	6.94	1.42	1.37
26	BB	263	G	N1-C2	6.94	1.43	1.37
28	BD	61	TYR	CE1-CZ	6.94	1.47	1.38
1	AA	426	U	C4'-O4'	-6.94	1.36	1.45
26	BB	1047	G	N3-C4	6.94	1.40	1.35
26	BB	2481	G	C8-N7	6.94	1.35	1.30
1	AA	79	G	N9-C8	6.94	1.42	1.37
26	BB	152	A	N7-C5	-6.94	1.35	1.39
26	BB	1882	U	O3'-P	6.94	1.69	1.61
26	BB	2295	C	C2-O2	-6.94	1.18	1.24
26	BB	1061	U	C4'-O4'	-6.94	1.36	1.45
26	BB	1430	G	N3-C4	6.94	1.40	1.35
26	BB	2881	U	C2-N3	6.94	1.42	1.37
1	AA	628	G	P-O5'	6.93	1.66	1.59
1	AA	944	G	N7-C5	6.93	1.43	1.39
1	AA	1043	G	P-O5'	6.93	1.66	1.59
1	AA	1454	G	C5'-C4'	6.93	1.59	1.51
26	BB	291	G	P-O5'	6.93	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1909	C	N1-C6	6.93	1.41	1.37
26	BB	2288	A	N3-C4	6.93	1.39	1.34
26	BB	46	G	C2'-C1'	6.93	1.60	1.53
26	BB	1281	G	P-O5'	6.93	1.66	1.59
1	AA	431	A	N3-C4	6.93	1.39	1.34
26	BB	1168	G	N7-C5	-6.93	1.35	1.39
1	AA	1162	C	N1-C6	6.93	1.41	1.37
1	AA	1232	U	C2-N3	6.93	1.42	1.37
1	AA	1493	A	C8-N7	-6.93	1.26	1.31
26	BB	48	G	N9-C4	-6.93	1.32	1.38
26	BB	1119	U	C4-O4	-6.93	1.18	1.23
26	BB	293	U	N3-C4	6.93	1.44	1.38
26	BB	1841	U	C4'-C3'	6.93	1.60	1.53
3	AC	24	A	C6-N6	-6.93	1.28	1.33
25	BA	79	G	N1-C2	6.93	1.43	1.37
26	BB	363	G	C6-N1	6.93	1.44	1.39
26	BB	1084	A	N7-C5	-6.93	1.35	1.39
26	BB	2345	G	N3-C4	6.93	1.40	1.35
26	BB	2609	U	O3'-P	6.93	1.69	1.61
1	AA	109	A	C5'-C4'	6.92	1.59	1.51
26	BB	226	A	N9-C8	6.92	1.43	1.37
26	BB	2031	A	N9-C4	-6.92	1.33	1.37
26	BB	2307	G	C4'-O4'	-6.92	1.36	1.45
26	BB	2366	A	C5'-C4'	6.92	1.59	1.51
26	BB	1959	G	C4'-O4'	-6.92	1.36	1.45
26	BB	2510	C	C2-N3	6.92	1.41	1.35
1	AA	117	G	N1-C2	6.92	1.43	1.37
1	AA	627	G	C2-N3	6.92	1.38	1.32
1	AA	661	G	C6-N1	6.92	1.44	1.39
26	BB	853	C	N3-C4	6.92	1.38	1.33
26	BB	2280	G	C2-N3	6.92	1.38	1.32
26	BB	2308	G	N1-C2	6.92	1.43	1.37
26	BB	2642	G	N1-C2	6.92	1.43	1.37
1	AA	1473	G	C4'-C3'	-6.92	1.45	1.53
26	BB	2173	A	N9-C4	6.92	1.42	1.37
1	AA	1040	U	C4-C5	6.92	1.49	1.43
26	BB	1700	A	C8-N7	-6.92	1.26	1.31
1	AA	1229	A	C6-N6	-6.92	1.28	1.33
1	AA	1231	G	N9-C4	6.92	1.43	1.38
25	BA	3	C	C4-C5	6.92	1.48	1.43
26	BB	60	G	N3-C4	6.92	1.40	1.35
26	BB	674	G	C5-C4	-6.92	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1484	U	C5-C6	6.92	1.40	1.34
26	BB	2793	C	C5'-C4'	6.92	1.59	1.51
1	AA	352	C	C5-C6	-6.92	1.28	1.34
1	AA	1430	A	N7-C5	6.92	1.43	1.39
1	AA	691	G	N3-C4	-6.91	1.30	1.35
1	AA	950	U	C2-N3	6.91	1.42	1.37
2	AB	76	A	P-O5'	-6.91	1.52	1.59
26	BB	1868	C	C2'-O2'	-6.91	1.32	1.41
26	BB	2096	C	C5-C6	-6.91	1.28	1.34
26	BB	2867	G	C2-N3	6.91	1.38	1.32
1	AA	352	C	C4'-O4'	-6.91	1.36	1.45
1	AA	1521	C	C2-O2	-6.91	1.18	1.24
26	BB	837	C	C5-C6	6.91	1.39	1.34
26	BB	54	G	C2-N3	6.91	1.38	1.32
26	BB	287	G	N3-C4	6.91	1.40	1.35
26	BB	401	A	C8-N7	-6.91	1.26	1.31
26	BB	613	A	C6-N6	-6.91	1.28	1.33
26	BB	1374	G	C4'-O4'	-6.91	1.36	1.45
26	BB	1014	A	N9-C4	-6.91	1.33	1.37
1	AA	364	A	C5-C4	-6.91	1.33	1.38
1	AA	736	C	C5-C6	6.91	1.39	1.34
26	BB	1545	A	P-O5'	6.91	1.66	1.59
26	BB	2170	A	N3-C4	6.91	1.39	1.34
1	AA	818	G	C2'-C1'	6.90	1.60	1.53
1	AA	1160	G	C2-N3	6.90	1.38	1.32
4	AD	53	G	C4'-O4'	-6.90	1.36	1.45
1	AA	362	G	C6-O6	-6.90	1.18	1.24
1	AA	362	G	N9-C8	6.90	1.42	1.37
1	AA	1189	U	N3-C4	6.90	1.44	1.38
1	AA	1227	A	C8-N7	-6.90	1.26	1.31
26	BB	2397	G	C5-C6	6.90	1.49	1.42
1	AA	449	G	N1-C2	6.90	1.43	1.37
1	AA	864	A	C6-N1	-6.90	1.30	1.35
1	AA	1487	G	N1-C2	6.90	1.43	1.37
26	BB	576	U	C4'-O4'	-6.90	1.36	1.45
26	BB	815	C	C5-C6	6.90	1.39	1.34
26	BB	1403	A	N9-C8	-6.90	1.32	1.37
26	BB	1662	U	C2-N3	6.90	1.42	1.37
1	AA	724	G	N9-C4	6.90	1.43	1.38
1	AA	1270	G	N7-C5	-6.90	1.35	1.39
26	BB	1664	A	C8-N7	-6.90	1.26	1.31
26	BB	1778	U	C2-N3	6.90	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	256	A	C6-N6	-6.90	1.28	1.33
26	BB	780	G	C2-N3	6.90	1.38	1.32
26	BB	2240	U	C4-O4	-6.90	1.18	1.23
3	AC	21	U	C4-C5	6.89	1.49	1.43
26	BB	183	C	N1-C6	6.89	1.41	1.37
26	BB	341	C	P-O5'	6.89	1.66	1.59
26	BB	506	G	N9-C8	-6.89	1.33	1.37
26	BB	2025	C	C2-N3	6.89	1.41	1.35
26	BB	2614	A	C5-C4	-6.89	1.33	1.38
1	AA	929	G	N1-C2	6.89	1.43	1.37
1	AA	1027	C	C5-C6	-6.89	1.28	1.34
3	AC	30	U	N1-C6	6.89	1.44	1.38
1	AA	133	U	C4-C5	6.89	1.49	1.43
26	BB	871	U	P-O5'	6.89	1.66	1.59
26	BB	1167	C	C5-C6	6.89	1.39	1.34
1	AA	168	G	C4'-C3'	6.89	1.60	1.53
26	BB	229	C	P-O5'	6.89	1.66	1.59
26	BB	739	A	N7-C5	6.89	1.43	1.39
26	BB	2237	G	N9-C8	6.89	1.42	1.37
26	BB	2808	G	C8-N7	6.89	1.35	1.30
26	BB	1653	G	C4'-C3'	-6.89	1.45	1.53
1	AA	575	G	C2-N3	6.89	1.38	1.32
26	BB	555	G	N9-C4	-6.89	1.32	1.38
26	BB	1193	G	O3'-P	6.89	1.69	1.61
26	BB	2493	U	P-O5'	6.89	1.66	1.59
4	AD	4	G	C5'-C4'	6.88	1.59	1.51
26	BB	190	A	N3-C4	6.88	1.39	1.34
26	BB	720	U	C2-N3	6.88	1.42	1.37
1	AA	1362	A	N7-C5	-6.88	1.35	1.39
26	BB	2217	G	P-O5'	6.88	1.66	1.59
1	AA	175	C	C3'-O3'	6.88	1.51	1.42
1	AA	197	A	N3-C4	-6.88	1.30	1.34
1	AA	649	A	C6-N6	-6.88	1.28	1.33
1	AA	669	G	N9-C4	6.88	1.43	1.38
2	AB	22	G	P-O5'	6.88	1.66	1.59
26	BB	579	G	N1-C2	6.88	1.43	1.37
26	BB	869	G	N9-C8	6.88	1.42	1.37
26	BB	1161	C	O3'-P	6.88	1.69	1.61
26	BB	2252	G	C5-C4	6.88	1.43	1.38
26	BB	2430	A	N7-C5	-6.88	1.35	1.39
26	BB	170	U	C2-N3	6.88	1.42	1.37
26	BB	2017	U	C5-C6	6.88	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	401	C	C4-C5	6.88	1.48	1.43
1	AA	1246	A	C8-N7	-6.88	1.26	1.31
2	AB	63	C	C3'-C2'	-6.88	1.45	1.52
26	BB	1540	G	N7-C5	6.88	1.43	1.39
26	BB	2289	G	C8-N7	-6.88	1.26	1.30
26	BB	2380	C	C5-C6	6.88	1.39	1.34
26	BB	2840	C	C4-C5	6.88	1.48	1.43
1	AA	250	A	N9-C4	6.88	1.42	1.37
1	AA	785	G	N7-C5	-6.88	1.35	1.39
1	AA	1358	U	O4'-C1'	6.88	1.50	1.41
26	BB	930	G	C5-C6	6.88	1.49	1.42
26	BB	1215	G	N9-C8	6.88	1.42	1.37
26	BB	1749	A	P-O5'	6.88	1.66	1.59
26	BB	2198	A	N7-C5	-6.88	1.35	1.39
26	BB	2538	C	C4-C5	6.88	1.48	1.43
26	BB	1360	G	C5-C6	6.87	1.49	1.42
26	BB	1492	G	C2'-C1'	6.87	1.60	1.53
26	BB	1707	G	N3-C4	6.87	1.40	1.35
26	BB	2876	G	C8-N7	6.87	1.35	1.30
1	AA	1266	G	O3'-P	6.87	1.69	1.61
6	AF	12	GLY	N-CA	-6.87	1.35	1.46
26	BB	392	U	C3'-C2'	-6.87	1.45	1.52
26	BB	644	A	N9-C4	6.87	1.42	1.37
26	BB	1049	C	C5'-C4'	6.87	1.59	1.51
26	BB	2780	G	N9-C8	6.87	1.42	1.37
1	AA	1455	G	C6-O6	6.87	1.30	1.24
26	BB	1812	U	C4-C5	6.87	1.49	1.43
26	BB	2443	C	C2'-C1'	6.87	1.60	1.53
26	BB	2702	G	C2-N3	6.87	1.38	1.32
26	BB	738	G	O3'-P	6.87	1.69	1.61
1	AA	95	C	P-O5'	6.87	1.66	1.59
1	AA	397	A	P-O5'	6.87	1.66	1.59
1	AA	561	U	C5'-C4'	6.87	1.59	1.51
1	AA	552	U	C5-C6	6.86	1.40	1.34
26	BB	280	U	N3-C4	6.86	1.44	1.38
26	BB	1736	U	C4-C5	6.86	1.49	1.43
1	AA	160	A	N3-C4	6.86	1.39	1.34
1	AA	202	G	N3-C4	-6.86	1.30	1.35
1	AA	775	G	C6-N1	6.86	1.44	1.39
1	AA	1079	G	C5-C6	6.86	1.49	1.42
26	BB	2031	A	C4'-C3'	6.86	1.60	1.53
26	BB	2165	C	C4'-C3'	6.86	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2513	A	C8-N7	-6.86	1.26	1.31
26	BB	415	A	C5'-C4'	6.86	1.59	1.51
1	AA	34	C	C2-N3	6.86	1.41	1.35
1	AA	529	G	C2-N3	6.86	1.38	1.32
1	AA	903	G	O4'-C1'	6.86	1.50	1.41
26	BB	1233	C	N1-C6	6.86	1.41	1.37
26	BB	1557	C	N1-C6	6.86	1.41	1.37
31	BG	127	TYR	CG-CD2	6.86	1.48	1.39
1	AA	39	G	C6-N1	6.86	1.44	1.39
2	AB	57	G	C8-N7	6.86	1.35	1.30
4	AD	15	G	N7-C5	-6.86	1.35	1.39
26	BB	639	U	C2'-O2'	6.86	1.50	1.41
26	BB	749	A	C6-N6	6.86	1.39	1.33
26	BB	2586	U	C5-C6	6.85	1.40	1.34
26	BB	2627	G	C2-N3	6.85	1.38	1.32
26	BB	1419	A	P-O5'	6.85	1.66	1.59
26	BB	2682	A	C5-C6	6.85	1.47	1.41
1	AA	75	G	N9-C8	-6.85	1.33	1.37
1	AA	799	G	N3-C4	6.85	1.40	1.35
26	BB	156	A	N3-C4	6.85	1.39	1.34
26	BB	316	C	N1-C6	6.85	1.41	1.37
26	BB	693	A	N9-C4	6.85	1.42	1.37
26	BB	2238	G	O3'-P	6.85	1.69	1.61
1	AA	433	G	C6-O6	-6.85	1.18	1.24
26	BB	1031	G	N1-C2	6.85	1.43	1.37
26	BB	1640	A	C3'-C2'	6.85	1.60	1.52
26	BB	1749	A	C2-N3	6.85	1.39	1.33
26	BB	1804	C	N1-C6	6.85	1.41	1.37
26	BB	2603	G	O4'-C1'	6.85	1.50	1.41
1	AA	602	A	N9-C4	6.85	1.42	1.37
1	AA	703	G	N9-C4	6.85	1.43	1.38
1	AA	906	A	C2'-C1'	6.85	1.60	1.53
26	BB	471	A	C4'-O4'	-6.85	1.36	1.45
26	BB	643	A	C6-N1	6.85	1.40	1.35
26	BB	892	A	N9-C8	6.85	1.43	1.37
26	BB	1433	A	C6-N6	-6.85	1.28	1.33
26	BB	1479	G	C2-N3	6.85	1.38	1.32
26	BB	2179	C	C4'-O4'	-6.85	1.36	1.45
26	BB	1381	G	O3'-P	6.85	1.69	1.61
1	AA	350	G	O3'-P	6.84	1.69	1.61
1	AA	821	G	C2-N3	6.84	1.38	1.32
4	AD	34	U	P-O5'	6.84	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BQ	64	TYR	CE2-CZ	6.84	1.47	1.38
26	BB	333	G	C8-N7	-6.84	1.26	1.30
26	BB	1708	C	C2-N3	6.84	1.41	1.35
1	AA	11	G	N9-C8	6.84	1.42	1.37
1	AA	974	A	C5-C6	6.84	1.47	1.41
26	BB	822	G	C8-N7	6.84	1.35	1.30
26	BB	2328	A	C2'-C1'	6.84	1.60	1.53
26	BB	2623	G	C3'-O3'	6.84	1.51	1.42
26	BB	2824	C	C2-N3	6.84	1.41	1.35
1	AA	306	A	N3-C4	6.84	1.39	1.34
1	AA	1450	U	N1-C2	6.84	1.44	1.38
26	BB	639	U	N1-C6	6.84	1.44	1.38
26	BB	1483	G	N1-C2	6.84	1.43	1.37
26	BB	2337	G	C2-N3	6.84	1.38	1.32
1	AA	1225	A	C8-N7	-6.84	1.26	1.31
26	BB	696	G	N7-C5	-6.84	1.35	1.39
26	BB	1640	A	N9-C8	6.84	1.43	1.37
3	AC	13	A	C5'-C4'	6.84	1.59	1.51
26	BB	2509	G	C6-N1	-6.84	1.34	1.39
26	BB	2565	A	N9-C8	6.84	1.43	1.37
26	BB	2706	A	C6-N1	6.84	1.40	1.35
1	AA	247	G	N9-C4	-6.83	1.32	1.38
26	BB	626	A	C8-N7	6.83	1.36	1.31
26	BB	1411	U	C4-C5	6.83	1.49	1.43
26	BB	1954	G	C6-N1	6.83	1.44	1.39
1	AA	881	G	P-O5'	6.83	1.66	1.59
26	BB	537	G	C3'-C2'	6.83	1.60	1.52
26	BB	1622	G	N7-C5	6.83	1.43	1.39
26	BB	1789	A	O3'-P	-6.83	1.52	1.61
1	AA	679	C	P-O5'	6.83	1.66	1.59
26	BB	1427	A	N1-C2	-6.83	1.28	1.34
1	AA	14	U	C5-C6	6.83	1.40	1.34
1	AA	447	G	C2'-O2'	6.83	1.50	1.41
26	BB	1742	U	C5'-C4'	6.83	1.59	1.51
26	BB	2035	G	C4'-C3'	6.83	1.60	1.53
1	AA	24	U	O3'-P	6.83	1.69	1.61
1	AA	374	A	C6-N1	-6.83	1.30	1.35
1	AA	772	U	N1-C2	6.83	1.44	1.38
1	AA	788	U	C2-N3	6.83	1.42	1.37
26	BB	667	U	C2-N3	6.83	1.42	1.37
26	BB	1082	U	C5'-C4'	6.83	1.59	1.51
26	BB	2407	A	N3-C4	6.83	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2646	C	P-O5'	6.83	1.66	1.59
1	AA	599	C	P-O5'	-6.83	1.52	1.59
26	BB	433	C	C4'-O4'	-6.83	1.36	1.45
26	BB	1051	G	N7-C5	6.83	1.43	1.39
26	BB	1138	G	C5-C6	6.83	1.49	1.42
26	BB	1309	G	C6-N1	6.83	1.44	1.39
26	BB	1803	A	C4'-O4'	-6.83	1.36	1.45
26	BB	2621	G	C5'-C4'	6.82	1.59	1.51
26	BB	624	C	P-O5'	6.82	1.66	1.59
1	AA	74	A	C4'-C3'	-6.82	1.45	1.53
1	AA	372	C	P-O5'	6.82	1.66	1.59
26	BB	868	U	N1-C2	6.82	1.44	1.38
26	BB	2336	A	N1-C2	-6.82	1.28	1.34
26	BB	2581	G	C5-C4	-6.82	1.33	1.38
26	BB	1035	U	N1-C6	6.82	1.44	1.38
26	BB	1661	G	C2-N3	6.82	1.38	1.32
26	BB	2824	C	N1-C6	6.82	1.41	1.37
2	AB	48	U	C4-C5	6.82	1.49	1.43
26	BB	58	G	N7-C5	6.82	1.43	1.39
26	BB	75	G	N7-C5	-6.82	1.35	1.39
26	BB	1097	U	C5-C6	6.82	1.40	1.34
26	BB	1530	G	P-O5'	6.82	1.66	1.59
26	BB	2568	U	C4'-C3'	-6.82	1.45	1.53
1	AA	698	G	C4'-O4'	-6.81	1.36	1.45
26	BB	13	A	C4'-C3'	6.81	1.60	1.53
26	BB	958	U	C4-O4	-6.81	1.18	1.23
26	BB	1378	A	N9-C4	6.81	1.42	1.37
26	BB	999	U	P-O5'	6.81	1.66	1.59
26	BB	1298	C	O3'-P	6.81	1.69	1.61
26	BB	2351	G	C2-N2	-6.81	1.27	1.34
1	AA	84	U	P-O5'	6.81	1.66	1.59
1	AA	325	A	N9-C4	6.81	1.42	1.37
1	AA	1127	G	N7-C5	6.81	1.43	1.39
26	BB	1011	G	N1-C2	6.81	1.43	1.37
26	BB	2734	A	C5'-C4'	6.81	1.59	1.51
26	BB	1158	C	N3-C4	6.81	1.38	1.33
26	BB	1719	G	P-O5'	6.81	1.66	1.59
25	BA	19	C	N1-C6	6.80	1.41	1.37
26	BB	485	C	C4-C5	-6.80	1.37	1.43
26	BB	1299	G	C5'-C4'	6.80	1.59	1.51
26	BB	1307	A	N3-C4	6.80	1.39	1.34
26	BB	1709	U	P-O5'	6.80	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	695	A	N3-C4	6.80	1.39	1.34
26	BB	178	G	P-O5'	6.80	1.66	1.59
26	BB	888	C	P-O5'	6.80	1.66	1.59
26	BB	2341	G	N3-C4	6.80	1.40	1.35
26	BB	854	C	C5'-C4'	6.80	1.59	1.51
1	AA	1079	G	C2'-C1'	6.80	1.60	1.53
26	BB	571	U	C4-C5	6.80	1.49	1.43
26	BB	2106	U	C4-C5	6.80	1.49	1.43
1	AA	683	G	C2-N3	6.80	1.38	1.32
26	BB	244	A	N9-C4	-6.80	1.33	1.37
26	BB	2256	G	C2-N3	6.80	1.38	1.32
3	AC	16	A	C5-C4	-6.80	1.33	1.38
26	BB	377	G	C5-C4	-6.80	1.33	1.38
26	BB	1382	G	N7-C5	-6.80	1.35	1.39
26	BB	2341	G	P-O5'	-6.80	1.52	1.59
1	AA	1211	U	N1-C6	6.79	1.44	1.38
26	BB	2323	G	N9-C4	-6.79	1.32	1.38
1	AA	150	U	C3'-C2'	-6.79	1.45	1.52
4	AD	5	G	O3'-P	6.79	1.69	1.61
26	BB	966	G	N1-C2	6.79	1.43	1.37
1	AA	1117	A	P-O5'	-6.79	1.52	1.59
26	BB	685	A	C4'-C3'	6.79	1.60	1.53
26	BB	2780	G	C4'-O4'	-6.79	1.36	1.45
26	BB	2876	G	C2-N3	6.79	1.38	1.32
1	AA	537	G	C2-N3	6.79	1.38	1.32
26	BB	2106	U	N3-C4	6.79	1.44	1.38
26	BB	2159	G	C2-N3	6.79	1.38	1.32
1	AA	148	G	C5-C6	6.79	1.49	1.42
1	AA	417	G	N3-C4	6.79	1.40	1.35
26	BB	210	C	C1'-N1	6.79	1.58	1.48
26	BB	1173	U	N1-C2	6.79	1.44	1.38
26	BB	1368	G	N9-C8	-6.79	1.33	1.37
26	BB	1674	G	C3'-O3'	6.79	1.51	1.42
26	BB	2358	A	N1-C2	6.79	1.40	1.34
26	BB	2307	G	C5-C4	6.79	1.43	1.38
1	AA	89	U	C5-C6	6.79	1.40	1.34
1	AA	251	G	C4'-O4'	-6.79	1.36	1.45
1	AA	1397	C	C4'-C3'	6.79	1.60	1.53
3	AC	35	G	C8-N7	-6.79	1.26	1.30
25	BA	11	C	N1-C6	6.79	1.41	1.37
26	BB	901	C	C4-C5	6.79	1.48	1.43
26	BB	1626	A	N7-C5	6.79	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2708	G	N7-C5	6.79	1.43	1.39
1	AA	226	G	C2-N3	6.78	1.38	1.32
1	AA	605	U	C2-O2	6.78	1.28	1.22
1	AA	1108	G	N7-C5	6.78	1.43	1.39
25	BA	72	G	C2-N3	6.78	1.38	1.32
26	BB	175	G	N7-C5	6.78	1.43	1.39
26	BB	698	C	C3'-C2'	6.78	1.60	1.52
26	BB	1014	A	N7-C5	-6.78	1.35	1.39
26	BB	1654	A	C5'-C4'	6.78	1.59	1.51
26	BB	1753	G	O3'-P	-6.78	1.53	1.61
26	BB	2662	A	O3'-P	-6.78	1.53	1.61
26	BB	2680	U	C5'-C4'	6.78	1.59	1.51
1	AA	333	U	C2-N3	6.78	1.42	1.37
26	BB	2738	A	P-O5'	6.78	1.66	1.59
1	AA	754	C	C2-N3	6.78	1.41	1.35
1	AA	1087	G	N3-C4	6.78	1.40	1.35
4	AD	26	C	C2-N3	6.78	1.41	1.35
1	AA	1328	C	C2'-C1'	-6.78	1.45	1.53
26	BB	950	G	C6-N1	6.78	1.44	1.39
26	BB	2055	C	P-O5'	6.78	1.66	1.59
26	BB	899	A	N9-C8	6.78	1.43	1.37
26	BB	1602	U	C4'-O4'	-6.78	1.36	1.45
26	BB	2041	U	P-O5'	6.78	1.66	1.59
26	BB	2076	U	N1-C2	6.78	1.44	1.38
1	AA	250	A	C5'-C4'	6.78	1.59	1.51
1	AA	633	G	N9-C8	-6.78	1.33	1.37
1	AA	1526	G	N3-C4	6.78	1.40	1.35
26	BB	1133	A	P-O5'	6.78	1.66	1.59
26	BB	1770	G	C6-N1	6.78	1.44	1.39
26	BB	2762	C	C2-N3	6.78	1.41	1.35
1	AA	204	G	N9-C8	-6.77	1.33	1.37
1	AA	970	C	C4'-C3'	6.77	1.60	1.53
3	AC	44	U	P-O5'	6.77	1.66	1.59
26	BB	211	C	N3-C4	6.77	1.38	1.33
26	BB	673	C	N1-C6	6.77	1.41	1.37
26	BB	1009	A	C6-N1	-6.77	1.30	1.35
26	BB	2707	U	C1'-N1	6.77	1.58	1.48
26	BB	2733	A	P-O5'	6.77	1.66	1.59
4	AD	67	C	C4-C5	6.77	1.48	1.43
26	BB	1307	A	C4'-O4'	-6.77	1.36	1.45
26	BB	1922	G	O3'-P	6.77	1.69	1.61
1	AA	54	C	C4-C5	6.77	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	385	C	C3'-C2'	-6.77	1.45	1.52
1	AA	442	G	O3'-P	6.77	1.69	1.61
25	BA	23	G	C5'-C4'	6.77	1.59	1.51
26	BB	958	U	C5-C6	6.77	1.40	1.34
26	BB	2262	U	C2-N3	6.77	1.42	1.37
26	BB	2589	A	C6-N1	-6.77	1.30	1.35
40	BP	100	CYS	CB-SG	-6.77	1.70	1.82
26	BB	109	C	N3-C4	6.77	1.38	1.33
26	BB	161	A	C2-N3	6.77	1.39	1.33
26	BB	551	G	C5'-C4'	6.77	1.59	1.51
1	AA	814	A	N7-C5	-6.76	1.35	1.39
26	BB	196	A	C4'-O4'	-6.76	1.36	1.45
26	BB	1775	U	C2-N3	-6.76	1.33	1.37
26	BB	2706	A	N3-C4	6.76	1.39	1.34
1	AA	96	U	P-O5'	6.76	1.66	1.59
26	BB	1786	A	C5-C4	-6.76	1.34	1.38
26	BB	1506	U	C5'-C4'	6.76	1.59	1.51
26	BB	2653	U	C2'-C1'	-6.76	1.46	1.53
26	BB	2669	G	C5-C4	6.76	1.43	1.38
32	BH	94	ARG	CZ-NH1	6.76	1.41	1.33
1	AA	1080	A	N9-C8	-6.76	1.32	1.37
26	BB	1177	G	C5-C4	6.76	1.43	1.38
26	BB	2365	G	C6-O6	-6.76	1.18	1.24
1	AA	703	G	N3-C4	6.76	1.40	1.35
1	AA	45	G	N3-C4	-6.76	1.30	1.35
1	AA	48	C	C5-C6	6.76	1.39	1.34
26	BB	141	G	P-O5'	6.76	1.66	1.59
26	BB	658	U	C2-N3	6.76	1.42	1.37
26	BB	2228	G	N7-C5	-6.76	1.35	1.39
26	BB	2793	C	O3'-P	6.76	1.69	1.61
1	AA	353	A	C4'-O4'	-6.75	1.36	1.45
26	BB	369	U	N3-C4	6.75	1.44	1.38
26	BB	777	G	N3-C4	6.75	1.40	1.35
1	AA	378	G	C2'-C1'	6.75	1.60	1.53
1	AA	480	U	N1-C6	6.75	1.44	1.38
1	AA	1535	C	N1-C2	6.75	1.47	1.40
26	BB	749	A	N3-C4	6.75	1.39	1.34
26	BB	1324	G	P-O5'	6.75	1.66	1.59
1	AA	106	C	C4'-C3'	6.75	1.60	1.53
1	AA	1194	U	C2-O2	6.75	1.28	1.22
26	BB	1712	U	C3'-C2'	6.75	1.60	1.52
26	BB	2235	G	C6-O6	-6.75	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2851	A	C6-N6	-6.75	1.28	1.33
1	AA	299	G	C6-N1	6.75	1.44	1.39
1	AA	1364	U	N1-C2	6.75	1.44	1.38
1	AA	273	U	N1-C2	6.75	1.44	1.38
1	AA	930	C	N1-C6	6.75	1.41	1.37
1	AA	1400	C	C4-N4	6.75	1.40	1.33
4	AD	13	C	C4-C5	6.75	1.48	1.43
26	BB	508	A	C6-N6	-6.75	1.28	1.33
26	BB	572	A	N9-C8	-6.75	1.32	1.37
26	BB	1470	A	N9-C4	6.75	1.41	1.37
26	BB	2024	G	N3-C4	-6.75	1.30	1.35
26	BB	2102	G	O3'-P	-6.75	1.53	1.61
26	BB	2108	A	N7-C5	6.75	1.43	1.39
26	BB	2271	G	C4'-O4'	-6.75	1.36	1.45
26	BB	2510	C	C5'-C4'	6.75	1.59	1.51
1	AA	1225	A	N9-C8	-6.75	1.32	1.37
1	AA	1337	G	C4'-C3'	6.75	1.60	1.53
26	BB	1245	G	C8-N7	6.75	1.34	1.30
26	BB	1356	G	C6-O6	-6.75	1.18	1.24
26	BB	1836	C	P-O5'	6.75	1.66	1.59
2	AB	76	A	N9-C4	6.75	1.41	1.37
3	AC	48	C	C4-C5	6.75	1.48	1.43
26	BB	1178	C	C2-O2	-6.75	1.18	1.24
26	BB	2167	U	C2-N3	6.75	1.42	1.37
1	AA	1306	A	C4'-O4'	-6.74	1.36	1.45
1	AA	1316	G	P-O5'	6.74	1.66	1.59
4	AD	27	G	N3-C4	6.74	1.40	1.35
26	BB	273	G	P-O5'	6.74	1.66	1.59
26	BB	972	A	C8-N7	-6.74	1.26	1.31
26	BB	2482	A	N7-C5	-6.74	1.35	1.39
1	AA	452	A	N9-C4	6.74	1.41	1.37
1	AA	596	A	N9-C8	6.74	1.43	1.37
26	BB	2849	U	C2-N3	6.74	1.42	1.37
26	BB	2901	C	C5'-C4'	6.74	1.59	1.51
26	BB	899	A	C6-N1	6.74	1.40	1.35
26	BB	1276	A	N3-C4	6.74	1.38	1.34
26	BB	2599	G	O4'-C1'	6.74	1.50	1.41
1	AA	1084	G	N9-C8	-6.74	1.33	1.37
1	AA	1261	A	C6-N6	6.74	1.39	1.33
1	AA	1412	C	N1-C6	-6.74	1.33	1.37
26	BB	503	A	P-O5'	6.74	1.66	1.59
26	BB	1424	G	P-O5'	6.74	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2523	G	O4'-C1'	6.74	1.50	1.41
26	BB	2121	G	N1-C2	6.74	1.43	1.37
26	BB	18	U	C2-O2	6.74	1.28	1.22
26	BB	1386	C	N1-C6	6.74	1.41	1.37
26	BB	2227	A	C5'-C4'	6.74	1.59	1.51
1	AA	891	U	C2-N3	6.73	1.42	1.37
26	BB	1374	G	N7-C5	-6.73	1.35	1.39
1	AA	1012	A	C6-N1	-6.73	1.30	1.35
1	AA	1311	A	C6-N1	-6.73	1.30	1.35
1	AA	1376	U	P-O5'	6.73	1.66	1.59
26	BB	1339	G	N7-C5	6.73	1.43	1.39
26	BB	2450	A	C5'-C4'	6.73	1.59	1.51
26	BB	2814	A	P-O5'	-6.73	1.53	1.59
1	AA	50	A	N9-C4	-6.73	1.33	1.37
1	AA	824	G	P-O5'	6.73	1.66	1.59
1	AA	858	G	P-O5'	6.73	1.66	1.59
2	AB	51	G	P-O5'	6.73	1.66	1.59
26	BB	985	C	O3'-P	6.73	1.69	1.61
26	BB	758	C	P-O5'	6.73	1.66	1.59
26	BB	884	U	C3'-C2'	-6.73	1.45	1.52
1	AA	435	A	C5'-C4'	6.73	1.59	1.51
1	AA	747	A	N7-C5	6.73	1.43	1.39
26	BB	191	A	N7-C5	6.73	1.43	1.39
26	BB	2070	A	N9-C4	6.73	1.41	1.37
1	AA	98	A	N9-C4	6.72	1.41	1.37
1	AA	274	A	C4'-O4'	-6.72	1.36	1.45
26	BB	1202	G	N3-C4	6.72	1.40	1.35
26	BB	2120	G	C4'-O4'	-6.72	1.36	1.45
1	AA	685	G	N7-C5	6.72	1.43	1.39
1	AA	952	U	O4'-C1'	6.72	1.50	1.41
25	BA	35	C	C5-C6	6.72	1.39	1.34
26	BB	67	U	O3'-P	6.72	1.69	1.61
26	BB	900	A	N9-C4	6.72	1.41	1.37
26	BB	1424	G	C8-N7	-6.72	1.26	1.30
26	BB	2222	C	C4-C5	6.72	1.48	1.43
1	AA	1511	G	C2'-C1'	6.72	1.60	1.53
2	AB	44	G	N1-C2	6.72	1.43	1.37
1	AA	894	G	C5-C6	6.72	1.49	1.42
3	AC	44	U	C5'-C4'	6.72	1.59	1.51
25	BA	89	U	C2-N3	6.72	1.42	1.37
26	BB	196	A	C6-N1	6.72	1.40	1.35
26	BB	553	G	C8-N7	-6.72	1.26	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	192	A	C6-N6	6.72	1.39	1.33
26	BB	572	A	N9-C4	6.72	1.41	1.37
26	BB	1854	A	N7-C5	-6.72	1.35	1.39
26	BB	2654	A	C3'-C2'	6.72	1.60	1.52
1	AA	853	C	P-O5'	6.72	1.66	1.59
26	BB	1157	G	P-O5'	6.72	1.66	1.59
26	BB	2153	C	C3'-C2'	6.72	1.60	1.52
26	BB	2614	A	N7-C5	6.72	1.43	1.39
1	AA	299	G	C4'-C3'	-6.71	1.45	1.53
1	AA	847	G	N1-C2	6.71	1.43	1.37
1	AA	1480	A	C4'-O4'	-6.71	1.36	1.45
4	AD	4	G	C2-N3	6.71	1.38	1.32
26	BB	358	U	C4'-O4'	-6.71	1.36	1.45
26	BB	1109	C	C5-C6	6.71	1.39	1.34
26	BB	1191	G	C8-N7	-6.71	1.26	1.30
26	BB	1657	U	C4-O4	-6.71	1.18	1.23
26	BB	1873	G	N1-C2	-6.71	1.32	1.37
26	BB	2502	G	N1-C2	6.71	1.43	1.37
26	BB	2825	G	C5'-C4'	6.71	1.59	1.51
1	AA	27	G	C4'-C3'	6.71	1.60	1.53
1	AA	1116	U	C2-N3	6.71	1.42	1.37
26	BB	1523	U	C4-C5	6.71	1.49	1.43
26	BB	1663	G	C6-N1	6.71	1.44	1.39
26	BB	1862	G	C2'-C1'	6.71	1.60	1.53
26	BB	2705	A	N7-C5	6.71	1.43	1.39
26	BB	2826	A	C8-N7	6.71	1.36	1.31
1	AA	1287	A	C5-C4	6.71	1.43	1.38
1	AA	1343	G	C2-N3	6.71	1.38	1.32
26	BB	41	C	P-O5'	-6.71	1.53	1.59
26	BB	2425	A	C4'-O4'	-6.71	1.36	1.45
26	BB	2557	G	O3'-P	6.71	1.69	1.61
26	BB	1003	G	C2-N3	6.71	1.38	1.32
1	AA	54	C	O3'-P	6.71	1.69	1.61
1	AA	452	A	N3-C4	6.71	1.38	1.34
1	AA	1501	C	C2-N3	6.71	1.41	1.35
26	BB	234	U	C5-C6	6.71	1.40	1.34
26	BB	430	A	N7-C5	6.71	1.43	1.39
26	BB	1289	C	C3'-C2'	-6.71	1.45	1.52
26	BB	2601	C	C2-O2	-6.71	1.18	1.24
1	AA	20	U	C5-C6	6.71	1.40	1.34
1	AA	1090	U	C4-C5	6.71	1.49	1.43
1	AA	1414	U	C4-C5	6.71	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	110	G	C5'-C4'	6.71	1.59	1.51
26	BB	1411	U	C5-C6	6.71	1.40	1.34
26	BB	2036	C	N3-C4	6.71	1.38	1.33
26	BB	2644	G	P-O5'	6.71	1.66	1.59
26	BB	1201	U	N1-C2	6.71	1.44	1.38
1	AA	619	U	C2'-C1'	6.70	1.60	1.53
26	BB	2070	A	P-O5'	6.70	1.66	1.59
26	BB	2127	G	C5'-C4'	6.70	1.59	1.51
26	BB	2285	C	P-O5'	6.70	1.66	1.59
1	AA	656	G	N7-C5	6.70	1.43	1.39
26	BB	1112	G	N3-C4	6.70	1.40	1.35
26	BB	2259	U	C5'-C4'	6.70	1.59	1.51
1	AA	326	G	C5'-C4'	6.70	1.59	1.51
1	AA	1489	G	N7-C5	-6.70	1.35	1.39
2	AB	21	A	C4'-O4'	-6.70	1.36	1.45
26	BB	363	G	C5-C4	-6.70	1.33	1.38
1	AA	485	U	C4'-O4'	-6.70	1.36	1.45
26	BB	322	A	C2-N3	-6.70	1.27	1.33
1	AA	705	G	C4'-O4'	-6.70	1.36	1.45
1	AA	825	A	C6-N1	6.70	1.40	1.35
26	BB	291	G	C6-N1	6.70	1.44	1.39
26	BB	1631	G	P-O5'	6.70	1.66	1.59
1	AA	237	G	C4'-C3'	6.70	1.60	1.53
1	AA	1276	G	P-O5'	6.70	1.66	1.59
25	BA	53	A	C8-N7	-6.70	1.26	1.31
26	BB	986	C	O4'-C1'	6.70	1.50	1.41
26	BB	1644	C	O3'-P	6.70	1.69	1.61
26	BB	2121	G	N3-C4	-6.70	1.30	1.35
1	AA	2	A	N9-C4	6.69	1.41	1.37
1	AA	26	A	N7-C5	6.69	1.43	1.39
1	AA	668	G	C2-N3	6.69	1.38	1.32
26	BB	219	A	N7-C5	6.69	1.43	1.39
26	BB	196	A	N7-C5	-6.69	1.35	1.39
26	BB	554	U	C4'-O4'	-6.69	1.36	1.45
26	BB	896	A	N7-C5	6.69	1.43	1.39
26	BB	1040	A	N3-C4	6.69	1.38	1.34
26	BB	1357	C	C3'-C2'	6.69	1.60	1.52
26	BB	1663	G	C2-N3	6.69	1.38	1.32
26	BB	2485	G	C5-C4	-6.69	1.33	1.38
26	BB	2645	G	P-O5'	6.69	1.66	1.59
1	AA	1179	A	N3-C4	6.69	1.38	1.34
26	BB	145	C	C4'-O4'	-6.69	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	185	G	C8-N7	6.69	1.34	1.30
26	BB	251	A	N9-C4	6.69	1.41	1.37
26	BB	1256	G	O3'-P	-6.69	1.53	1.61
26	BB	1504	A	N7-C5	-6.69	1.35	1.39
26	BB	2286	G	C2-N3	6.69	1.38	1.32
26	BB	2397	G	O5'-C5'	-6.69	1.32	1.42
26	BB	2494	G	C2-N3	6.69	1.38	1.32
26	BB	2574	G	O4'-C1'	6.69	1.50	1.41
1	AA	1484	C	C3'-C2'	6.69	1.60	1.52
1	AA	1233	G	N7-C5	-6.69	1.35	1.39
26	BB	1177	G	C2-N3	6.69	1.38	1.32
26	BB	2010	G	N3-C4	6.69	1.40	1.35
26	BB	2156	G	C2'-C1'	-6.69	1.46	1.53
26	BB	70	G	C2'-C1'	-6.69	1.46	1.53
26	BB	575	A	C8-N7	6.69	1.36	1.31
2	AB	5	G	N9-C8	6.68	1.42	1.37
26	BB	1895	C	P-O5'	6.68	1.66	1.59
1	AA	328	C	P-O5'	6.68	1.66	1.59
1	AA	454	G	C6-O6	-6.68	1.18	1.24
26	BB	2444	G	N9-C8	6.68	1.42	1.37
26	BB	1421	G	N7-C5	-6.68	1.35	1.39
26	BB	2604	U	C4-C5	6.68	1.49	1.43
1	AA	990	C	O4'-C1'	6.68	1.50	1.41
1	AA	1015	G	O3'-P	6.68	1.69	1.61
1	AA	1354	U	N1-C2	6.68	1.44	1.38
26	BB	557	C	N1-C2	-6.68	1.33	1.40
26	BB	675	A	N3-C4	6.68	1.38	1.34
26	BB	2097	A	C6-N6	6.68	1.39	1.33
1	AA	974	A	P-O5'	6.68	1.66	1.59
1	AA	1132	C	O3'-P	6.68	1.69	1.61
26	BB	87	U	P-O5'	6.68	1.66	1.59
1	AA	49	U	N3-C4	6.68	1.44	1.38
1	AA	1291	U	C2-N3	6.68	1.42	1.37
25	BA	88	C	C2'-O2'	-6.68	1.32	1.41
26	BB	462	C	P-O5'	6.68	1.66	1.59
26	BB	1133	A	N9-C8	-6.68	1.32	1.37
1	AA	929	G	C2-N3	6.67	1.38	1.32
26	BB	274	C	P-O5'	6.67	1.66	1.59
26	BB	1330	C	P-O5'	6.67	1.66	1.59
26	BB	2515	C	O4'-C1'	-6.67	1.32	1.41
26	BB	2711	A	C8-N7	6.67	1.36	1.31
1	AA	771	G	C5'-C4'	6.67	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1423	G	N9-C8	6.67	1.42	1.37
25	BA	74	U	P-O5'	6.67	1.66	1.59
26	BB	591	U	N1-C2	6.67	1.44	1.38
1	AA	1212	U	C4-C5	6.67	1.49	1.43
26	BB	54	G	C4'-O4'	-6.67	1.36	1.45
26	BB	137	U	C4-C5	6.67	1.49	1.43
26	BB	618	G	N9-C4	-6.67	1.32	1.38
26	BB	822	G	N1-C2	6.67	1.43	1.37
26	BB	2542	A	C5-C4	-6.67	1.34	1.38
26	BB	2759	G	C8-N7	6.67	1.34	1.30
1	AA	868	C	N3-C4	6.67	1.38	1.33
1	AA	243	A	O4'-C1'	6.67	1.50	1.41
1	AA	609	A	P-O5'	6.67	1.66	1.59
3	AC	19	A	P-O5'	-6.67	1.53	1.59
4	AD	23	G	N9-C8	6.67	1.42	1.37
26	BB	109	C	C4'-O4'	-6.67	1.36	1.45
26	BB	1650	A	N9-C4	-6.67	1.33	1.37
26	BB	2335	A	C6-N1	-6.67	1.30	1.35
1	AA	217	C	C2-N3	6.67	1.41	1.35
26	BB	770	G	C4'-C3'	6.67	1.60	1.53
26	BB	2250	G	C5'-C4'	6.67	1.59	1.51
1	AA	782	A	C4'-O4'	-6.67	1.36	1.45
2	AB	75	C	O3'-P	6.67	1.69	1.61
26	BB	1344	U	C2-N3	6.67	1.42	1.37
26	BB	310	A	C6-N1	-6.66	1.30	1.35
26	BB	1441	G	N9-C8	-6.66	1.33	1.37
26	BB	1072	C	C5-C6	6.66	1.39	1.34
26	BB	1650	A	C8-N7	-6.66	1.26	1.31
26	BB	1738	G	C2-N3	6.66	1.38	1.32
1	AA	30	U	C2-N3	6.66	1.42	1.37
4	AD	12	G	C6-N1	-6.66	1.34	1.39
4	AD	65	G	N9-C8	6.66	1.42	1.37
26	BB	279	A	O3'-P	6.66	1.69	1.61
26	BB	1572	A	C6-N1	-6.66	1.30	1.35
26	BB	1687	G	C2-N3	6.66	1.38	1.32
26	BB	1833	C	C2-N3	6.66	1.41	1.35
26	BB	2200	C	P-O5'	6.66	1.66	1.59
26	BB	2298	A	N9-C4	6.66	1.41	1.37
1	AA	1245	C	C3'-C2'	6.66	1.60	1.52
26	BB	270	A	C6-N6	6.66	1.39	1.33
26	BB	821	A	C2'-C1'	6.66	1.60	1.53
26	BB	2486	C	N3-C4	6.66	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2811	G	C4'-O4'	-6.66	1.36	1.45
26	BB	39	G	O3'-P	6.66	1.69	1.61
1	AA	82	G	N9-C8	6.66	1.42	1.37
1	AA	186	C	P-O5'	6.66	1.66	1.59
1	AA	1080	A	N9-C4	6.66	1.41	1.37
26	BB	126	A	C5'-C4'	6.65	1.59	1.51
26	BB	1785	A	C8-N7	-6.65	1.26	1.31
26	BB	2215	C	N1-C6	6.65	1.41	1.37
1	AA	548	G	C5-C6	6.65	1.49	1.42
1	AA	783	C	N1-C6	6.65	1.41	1.37
1	AA	904	U	C4-O4	6.65	1.28	1.23
25	BA	22	U	O4'-C1'	6.65	1.50	1.41
26	BB	261	G	C5-C4	-6.65	1.33	1.38
26	BB	1326	U	C5-C6	6.65	1.40	1.34
26	BB	1487	U	N3-C4	6.65	1.44	1.38
26	BB	1855	U	N3-C4	6.65	1.44	1.38
26	BB	2195	U	N1-C2	6.65	1.44	1.38
26	BB	2242	G	O3'-P	6.65	1.69	1.61
4	AD	23	G	C6-N1	-6.65	1.34	1.39
25	BA	74	U	C2-N3	6.65	1.42	1.37
26	BB	115	C	N3-C4	6.65	1.38	1.33
26	BB	169	G	C5-C4	6.65	1.43	1.38
26	BB	1451	C	C4-C5	-6.65	1.37	1.43
26	BB	1542	U	C5'-C4'	6.65	1.59	1.51
26	BB	1761	C	P-O5'	6.65	1.66	1.59
26	BB	2145	C	C2-N3	-6.65	1.30	1.35
26	BB	2649	C	C4'-O4'	-6.65	1.36	1.45
1	AA	178	C	N1-C2	-6.65	1.33	1.40
1	AA	505	G	C4'-O4'	-6.65	1.36	1.45
1	AA	1270	G	N1-C2	6.65	1.43	1.37
4	AD	58	A	C8-N7	-6.65	1.26	1.31
25	BA	101	A	N1-C2	6.65	1.40	1.34
26	BB	1322	A	N7-C5	-6.65	1.35	1.39
3	AC	22	G	N9-C8	-6.64	1.33	1.37
26	BB	764	A	O3'-P	-6.64	1.53	1.61
26	BB	820	A	C8-N7	-6.64	1.26	1.31
26	BB	869	G	O3'-P	6.64	1.69	1.61
26	BB	1309	G	P-O5'	6.64	1.66	1.59
26	BB	2619	C	O3'-P	6.64	1.69	1.61
1	AA	880	C	P-O5'	6.64	1.66	1.59
1	AA	1167	A	C2-N3	6.64	1.39	1.33
25	BA	55	U	N3-C4	6.64	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	274	C	N1-C6	6.64	1.41	1.37
26	BB	1002	G	C2-N3	6.64	1.38	1.32
26	BB	1971	U	C4-O4	-6.64	1.18	1.23
1	AA	1016	A	C6-N6	6.64	1.39	1.33
26	BB	2706	A	C6-N6	-6.64	1.28	1.33
26	BB	2897	U	C4-C5	6.64	1.49	1.43
1	AA	491	G	O3'-P	6.64	1.69	1.61
26	BB	1088	A	C5-C4	6.64	1.43	1.38
26	BB	1678	A	N9-C4	-6.64	1.33	1.37
26	BB	2390	U	O3'-P	6.64	1.69	1.61
26	BB	2565	A	C2'-C1'	-6.64	1.46	1.53
26	BB	2803	G	C2-N3	6.64	1.38	1.32
26	BB	1056	G	N3-C4	6.64	1.40	1.35
26	BB	1139	G	C6-N1	6.64	1.44	1.39
25	BA	81	G	C5'-C4'	6.64	1.59	1.51
26	BB	333	G	P-O5'	6.64	1.66	1.59
26	BB	418	C	C4-C5	6.64	1.48	1.43
26	BB	485	C	P-O5'	6.64	1.66	1.59
26	BB	956	G	C2'-C1'	-6.64	1.46	1.53
26	BB	1358	G	N9-C4	6.64	1.43	1.38
26	BB	2353	G	C4'-O4'	-6.64	1.36	1.45
1	AA	132	C	C5'-C4'	6.63	1.59	1.51
1	AA	1527	U	C2-O2	6.63	1.28	1.22
26	BB	1451	C	N3-C4	6.63	1.38	1.33
26	BB	1723	G	N7-C5	6.63	1.43	1.39
26	BB	2132	U	C2-O2	6.63	1.28	1.22
26	BB	406	G	C4'-O4'	-6.63	1.36	1.45
26	BB	648	G	C4'-O4'	-6.63	1.36	1.45
26	BB	1048	A	C5'-C4'	6.63	1.59	1.51
26	BB	2751	G	N7-C5	-6.63	1.35	1.39
26	BB	2881	U	C4'-C3'	-6.63	1.45	1.53
1	AA	383	A	C2'-O2'	6.63	1.50	1.41
3	AC	13	A	O4'-C1'	-6.63	1.33	1.41
26	BB	984	A	O3'-P	6.63	1.69	1.61
26	BB	1019	U	P-O5'	6.63	1.66	1.59
26	BB	1250	G	C2-N3	6.63	1.38	1.32
26	BB	1437	C	N3-C4	6.63	1.38	1.33
2	AB	2	G	C6-N1	-6.63	1.34	1.39
1	AA	987	G	C5-C4	-6.63	1.33	1.38
26	BB	21	A	C5-C4	-6.63	1.34	1.38
26	BB	404	A	N3-C4	6.63	1.38	1.34
26	BB	440	C	P-O5'	-6.63	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	877	A	O3'-P	6.63	1.69	1.61
26	BB	996	A	C2'-O2'	-6.62	1.33	1.41
1	AA	759	A	C5-C4	6.62	1.43	1.38
1	AA	808	C	C2-N3	6.62	1.41	1.35
1	AA	1158	C	P-O5'	6.62	1.66	1.59
26	BB	1449	G	N1-C2	6.62	1.43	1.37
26	BB	1650	A	P-O5'	6.62	1.66	1.59
26	BB	1976	U	C4-C5	6.62	1.49	1.43
3	AC	59	A	C6-N6	6.62	1.39	1.33
26	BB	965	C	C2'-C1'	-6.62	1.46	1.53
26	BB	1200	C	C1'-N1	6.62	1.58	1.48
26	BB	1841	U	P-O5'	6.62	1.66	1.59
26	BB	2329	U	C4'-O4'	-6.62	1.36	1.45
1	AA	710	G	O5'-C5'	-6.62	1.32	1.42
26	BB	1900	A	C5-C4	6.62	1.43	1.38
26	BB	2472	G	N1-C2	6.62	1.43	1.37
1	AA	1191	A	C2'-O2'	6.62	1.50	1.41
26	BB	2	G	C2-N3	6.62	1.38	1.32
26	BB	1159	U	C5-C6	6.62	1.40	1.34
26	BB	1914	C	C2-N3	6.62	1.41	1.35
26	BB	2132	U	C4'-O4'	-6.62	1.36	1.45
26	BB	2880	C	C4'-O4'	-6.62	1.36	1.45
1	AA	484	G	N9-C8	-6.62	1.33	1.37
26	BB	1551	A	N7-C5	6.62	1.43	1.39
26	BB	1966	A	C5-C4	-6.62	1.34	1.38
26	BB	149	A	C5-C4	-6.62	1.34	1.38
26	BB	408	G	N1-C2	6.62	1.43	1.37
26	BB	2011	U	C4-C5	6.62	1.49	1.43
26	BB	2332	C	C4'-O4'	-6.62	1.36	1.45
1	AA	25	C	N3-C4	6.61	1.38	1.33
1	AA	1012	A	C8-N7	-6.61	1.26	1.31
1	AA	1123	U	C2'-O2'	6.61	1.50	1.41
26	BB	717	C	C4-C5	6.61	1.48	1.43
26	BB	751	A	O3'-P	6.61	1.69	1.61
26	BB	1448	G	C6-N1	6.61	1.44	1.39
26	BB	1901	A	C6-N6	-6.61	1.28	1.33
26	BB	2032	G	N3-C4	6.61	1.40	1.35
26	BB	1112	G	P-O5'	6.61	1.66	1.59
26	BB	2729	G	C6-O6	-6.61	1.18	1.24
1	AA	767	A	N9-C8	6.61	1.43	1.37
1	AA	934	C	C5-C6	6.61	1.39	1.34
1	AA	1032	G	N3-C4	6.61	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1416	G	N9-C4	6.61	1.43	1.38
26	BB	1243	C	C2'-O2'	6.61	1.50	1.41
26	BB	2452	C	N3-C4	6.61	1.38	1.33
26	BB	2847	U	C4-C5	6.61	1.49	1.43
1	AA	306	A	N7-C5	6.61	1.43	1.39
1	AA	587	G	N3-C4	6.61	1.40	1.35
1	AA	1243	C	N3-C4	6.61	1.38	1.33
4	AD	7	G	P-O5'	6.61	1.66	1.59
26	BB	284	U	P-O5'	6.61	1.66	1.59
26	BB	1000	A	P-O5'	6.61	1.66	1.59
26	BB	1194	A	C4'-O4'	-6.61	1.36	1.45
26	BB	2402	U	C4-O4	-6.61	1.18	1.23
30	BF	88	ARG	CZ-NH2	6.61	1.41	1.33
1	AA	220	G	C6-N1	6.61	1.44	1.39
1	AA	413	G	C2-N3	6.61	1.38	1.32
1	AA	1212	U	O3'-P	6.61	1.69	1.61
26	BB	674	G	N7-C5	-6.61	1.35	1.39
26	BB	1986	C	C2-O2	-6.61	1.18	1.24
26	BB	2045	C	C4-C5	6.61	1.48	1.43
26	BB	2639	A	C5'-C4'	6.61	1.59	1.51
1	AA	423	G	C2'-O2'	6.60	1.50	1.41
26	BB	4	U	C5'-C4'	6.60	1.59	1.51
26	BB	180	G	C6-N1	6.60	1.44	1.39
26	BB	799	G	C5'-C4'	6.60	1.59	1.51
26	BB	1973	G	C6-N1	6.60	1.44	1.39
1	AA	912	C	P-O5'	6.60	1.66	1.59
26	BB	1689	A	C5-C4	-6.60	1.34	1.38
1	AA	695	A	N7-C5	-6.60	1.35	1.39
1	AA	1373	G	P-O5'	6.60	1.66	1.59
26	BB	712	G	N1-C2	6.60	1.43	1.37
26	BB	2731	G	C5'-C4'	6.60	1.59	1.51
1	AA	708	C	C5-C6	-6.60	1.29	1.34
26	BB	730	A	C2'-C1'	6.60	1.60	1.53
1	AA	351	G	C4'-C3'	6.60	1.60	1.53
1	AA	949	A	C5'-C4'	6.60	1.59	1.51
1	AA	1063	C	C2'-C1'	6.60	1.60	1.53
26	BB	1040	A	C3'-O3'	6.60	1.51	1.42
26	BB	2411	A	N3-C4	6.60	1.38	1.34
25	BA	41	G	C6-N1	6.60	1.44	1.39
26	BB	1063	G	C6-N1	6.60	1.44	1.39
1	AA	160	A	C5-C4	-6.59	1.34	1.38
1	AA	859	G	C3'-C2'	-6.59	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	862	C	N3-C4	6.59	1.38	1.33
1	AA	920	U	P-O5'	6.59	1.66	1.59
26	BB	420	C	C5-C6	6.59	1.39	1.34
26	BB	547	A	N1-C2	-6.59	1.28	1.34
26	BB	1734	G	O3'-P	6.59	1.69	1.61
1	AA	1483	A	C2'-C1'	6.59	1.60	1.53
26	BB	734	A	C5-C4	-6.59	1.34	1.38
1	AA	337	G	C2-N3	6.59	1.38	1.32
1	AA	355	C	C2-N3	6.59	1.41	1.35
4	AD	75	C	P-O5'	6.59	1.66	1.59
26	BB	267	C	C5'-C4'	6.59	1.59	1.51
26	BB	882	G	C4'-C3'	6.59	1.60	1.53
26	BB	1408	G	C4'-O4'	-6.59	1.36	1.45
26	BB	2797	U	C4'-C3'	-6.59	1.46	1.53
26	BB	2874	C	N1-C6	6.59	1.41	1.37
1	AA	547	A	N7-C5	6.59	1.43	1.39
1	AA	908	A	N7-C5	-6.59	1.35	1.39
26	BB	411	G	C5'-C4'	6.59	1.59	1.51
26	BB	1305	C	C4'-O4'	-6.59	1.36	1.45
1	AA	65	A	P-O5'	-6.59	1.53	1.59
1	AA	275	G	N9-C8	-6.59	1.33	1.37
1	AA	1393	U	N1-C2	6.59	1.44	1.38
26	BB	2081	U	C4'-O4'	-6.59	1.36	1.45
1	AA	298	A	C8-N7	-6.59	1.26	1.31
1	AA	561	U	P-O5'	6.59	1.66	1.59
1	AA	991	U	O3'-P	6.59	1.69	1.61
26	BB	449	A	C6-N1	-6.59	1.30	1.35
26	BB	542	C	N3-C4	-6.59	1.29	1.33
26	BB	1612	C	C4'-O4'	-6.59	1.36	1.45
26	BB	2396	G	N7-C5	-6.59	1.35	1.39
26	BB	1451	C	N1-C2	6.58	1.46	1.40
26	BB	2141	G	P-O5'	6.58	1.66	1.59
1	AA	988	G	C8-N7	-6.58	1.27	1.30
1	AA	1294	G	N7-C5	6.58	1.43	1.39
1	AA	1386	G	C6-O6	-6.58	1.18	1.24
25	BA	88	C	C4-C5	6.58	1.48	1.43
26	BB	114	U	C2-N3	6.58	1.42	1.37
26	BB	1828	G	O3'-P	6.58	1.69	1.61
19	AS	17	TYR	CE2-CZ	6.58	1.47	1.38
26	BB	230	G	C2'-O2'	-6.58	1.33	1.41
26	BB	418	C	N1-C6	-6.58	1.33	1.37
26	BB	522	A	N7-C5	-6.58	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	855	G	N9-C8	-6.58	1.33	1.37
26	BB	972	A	C6-N6	6.58	1.39	1.33
26	BB	979	A	C8-N7	6.58	1.36	1.31
26	BB	2242	G	N9-C4	6.58	1.43	1.38
26	BB	2624	G	N7-C5	6.58	1.43	1.39
26	BB	245	G	N9-C4	-6.58	1.32	1.38
26	BB	2169	A	N9-C4	6.58	1.41	1.37
1	AA	279	A	P-O5'	-6.58	1.53	1.59
1	AA	1190	G	N3-C4	6.58	1.40	1.35
1	AA	1285	A	P-O5'	6.58	1.66	1.59
1	AA	1313	U	N1-C2	6.58	1.44	1.38
4	AD	10	G	N1-C2	6.58	1.43	1.37
26	BB	766	U	C2-N3	6.58	1.42	1.37
26	BB	1311	G	C5-C4	-6.58	1.33	1.38
26	BB	1686	C	C5-C6	6.58	1.39	1.34
1	AA	873	A	N3-C4	6.58	1.38	1.34
26	BB	2035	G	O3'-P	6.58	1.69	1.61
26	BB	411	G	N7-C5	-6.58	1.35	1.39
26	BB	1682	G	P-O5'	6.58	1.66	1.59
26	BB	2769	U	O3'-P	6.58	1.69	1.61
1	AA	439	U	O3'-P	6.57	1.69	1.61
1	AA	628	G	C6-O6	-6.57	1.18	1.24
1	AA	1146	A	N9-C4	6.57	1.41	1.37
1	AA	1350	A	N1-C2	-6.57	1.28	1.34
1	AA	1385	G	C2'-C1'	6.57	1.60	1.53
26	BB	52	A	O3'-P	6.57	1.69	1.61
26	BB	147	C	C2-O2	-6.57	1.18	1.24
26	BB	1756	G	C2-N3	6.57	1.38	1.32
26	BB	2595	G	C8-N7	-6.57	1.27	1.30
26	BB	914	G	C5-C4	-6.57	1.33	1.38
1	AA	40	C	C5-C6	6.57	1.39	1.34
1	AA	1119	C	C3'-C2'	6.57	1.60	1.52
1	AA	1295	U	C4-C5	6.57	1.49	1.43
1	AA	1300	G	N1-C2	6.57	1.43	1.37
4	AD	54	G	N1-C2	6.57	1.43	1.37
26	BB	648	G	N1-C2	6.57	1.43	1.37
26	BB	1774	C	C5-C6	6.57	1.39	1.34
26	BB	1934	C	N1-C6	6.57	1.41	1.37
26	BB	1944	U	N1-C2	6.57	1.44	1.38
26	BB	2210	U	C5'-C4'	6.57	1.59	1.51
26	BB	2696	U	C4-O4	6.57	1.28	1.23
26	BB	1501	G	O3'-P	6.57	1.69	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1914	C	C4-N4	6.57	1.39	1.33
26	BB	2609	U	C4-C5	6.57	1.49	1.43
1	AA	901	A	C6-N1	-6.57	1.30	1.35
26	BB	540	C	C2'-C1'	6.57	1.60	1.53
26	BB	2025	C	C4-N4	-6.57	1.28	1.33
26	BB	2047	C	C2-N3	6.57	1.41	1.35
26	BB	2193	G	C8-N7	-6.57	1.27	1.30
1	AA	550	G	C4'-C3'	6.57	1.60	1.53
1	AA	855	U	N1-C2	6.57	1.44	1.38
26	BB	224	U	C4-C5	6.57	1.49	1.43
26	BB	301	G	N9-C8	6.57	1.42	1.37
26	BB	655	A	N9-C8	6.57	1.43	1.37
26	BB	1464	G	N3-C4	6.57	1.40	1.35
26	BB	1764	C	N1-C2	6.57	1.46	1.40
26	BB	1145	C	N3-C4	6.56	1.38	1.33
26	BB	1932	A	C4'-C3'	6.56	1.60	1.53
1	AA	1540	U	N1-C2	6.56	1.44	1.38
2	AB	15	A	N7-C5	-6.56	1.35	1.39
4	AD	46	G	C2-N3	6.56	1.38	1.32
26	BB	699	A	C5'-C4'	6.56	1.59	1.51
1	AA	1220	G	C6-N1	6.56	1.44	1.39
1	AA	1511	G	C6-N1	-6.56	1.34	1.39
26	BB	197	A	C5'-C4'	6.56	1.59	1.51
26	BB	645	C	C4'-O4'	-6.56	1.37	1.45
26	BB	859	G	N3-C4	6.56	1.40	1.35
26	BB	1464	G	C6-N1	6.56	1.44	1.39
26	BB	1731	G	C2'-C1'	6.56	1.60	1.53
26	BB	1778	U	P-O5'	6.56	1.66	1.59
1	AA	917	G	C6-N1	-6.56	1.34	1.39
1	AA	1064	G	N9-C8	-6.56	1.33	1.37
26	BB	963	U	P-O5'	6.56	1.66	1.59
26	BB	2625	G	N1-C2	6.56	1.43	1.37
26	BB	1217	U	C2-N3	-6.55	1.33	1.37
26	BB	1367	A	C4'-O4'	-6.55	1.37	1.45
26	BB	1465	G	N3-C4	6.55	1.40	1.35
26	BB	1716	U	O4'-C1'	6.55	1.50	1.41
1	AA	951	G	N7-C5	6.55	1.43	1.39
1	AA	1453	G	N9-C8	-6.55	1.33	1.37
26	BB	806	C	C2-N3	6.55	1.41	1.35
26	BB	1754	A	C5-C6	-6.55	1.35	1.41
26	BB	1929	G	N3-C4	-6.55	1.30	1.35
1	AA	295	C	C5'-C4'	6.55	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1126	U	C4'-O4'	-6.55	1.37	1.45
25	BA	23	G	N3-C4	6.55	1.40	1.35
26	BB	1369	G	N9-C8	6.55	1.42	1.37
1	AA	57	G	O3'-P	6.55	1.69	1.61
1	AA	372	C	O3'-P	6.55	1.69	1.61
1	AA	598	U	C3'-C2'	-6.55	1.45	1.52
1	AA	1199	U	N1-C2	6.55	1.44	1.38
2	AB	49	G	C6-N1	-6.55	1.34	1.39
26	BB	709	U	C5-C6	6.55	1.40	1.34
26	BB	908	C	C2'-O2'	6.55	1.50	1.41
26	BB	2185	U	C4'-O4'	-6.55	1.37	1.45
1	AA	425	G	C6-O6	-6.55	1.18	1.24
1	AA	812	G	P-O5'	6.55	1.66	1.59
1	AA	972	C	C4'-O4'	-6.55	1.37	1.45
1	AA	1255	G	N1-C2	6.55	1.43	1.37
1	AA	1467	C	N1-C6	6.55	1.41	1.37
25	BA	44	G	N3-C4	-6.55	1.30	1.35
26	BB	208	C	N1-C6	6.55	1.41	1.37
26	BB	382	A	N1-C2	-6.55	1.28	1.34
26	BB	768	G	C2-N3	6.55	1.38	1.32
26	BB	1302	A	N9-C4	6.55	1.41	1.37
26	BB	1444	G	C6-O6	-6.55	1.18	1.24
26	BB	2189	U	C2-O2	-6.55	1.16	1.22
26	BB	2354	C	C4-C5	6.55	1.48	1.43
26	BB	174	U	C4-O4	-6.54	1.18	1.23
26	BB	368	A	C5-C4	6.54	1.43	1.38
26	BB	556	A	N7-C5	-6.54	1.35	1.39
26	BB	2436	G	N9-C4	-6.54	1.32	1.38
1	AA	104	G	C5-C6	6.54	1.48	1.42
26	BB	777	G	N1-C2	6.54	1.43	1.37
26	BB	881	G	N3-C4	6.54	1.40	1.35
26	BB	1472	C	C4-C5	6.54	1.48	1.43
26	BB	1585	C	N1-C6	6.54	1.41	1.37
26	BB	2557	G	P-O5'	6.54	1.66	1.59
26	BB	2566	A	N7-C5	-6.54	1.35	1.39
1	AA	120	A	C6-N6	-6.54	1.28	1.33
1	AA	493	A	C5-C4	-6.54	1.34	1.38
1	AA	687	A	N3-C4	6.54	1.38	1.34
1	AA	1421	G	N7-C5	6.54	1.43	1.39
26	BB	6	A	C8-N7	-6.54	1.26	1.31
26	BB	330	A	O3'-P	6.54	1.69	1.61
26	BB	366	C	N1-C6	6.54	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1759	A	C3'-C2'	-6.54	1.45	1.52
1	AA	443	C	C4'-C3'	6.54	1.60	1.53
26	BB	133	U	C5'-C4'	6.54	1.59	1.51
26	BB	1779	U	N1-C2	6.54	1.44	1.38
1	AA	413	G	C4'-C3'	6.54	1.60	1.53
1	AA	668	G	N7-C5	6.54	1.43	1.39
1	AA	956	U	C2-N3	6.54	1.42	1.37
26	BB	1138	G	N3-C4	6.54	1.40	1.35
26	BB	1767	G	N7-C5	6.54	1.43	1.39
26	BB	2800	A	O3'-P	6.54	1.69	1.61
1	AA	311	C	C4-C5	6.54	1.48	1.43
1	AA	943	U	N1-C2	6.54	1.44	1.38
1	AA	1255	G	C2-N3	6.54	1.38	1.32
26	BB	2602	A	C5-C6	-6.54	1.35	1.41
1	AA	180	U	N1-C2	6.54	1.44	1.38
1	AA	307	C	N1-C6	6.54	1.41	1.37
1	AA	797	C	N3-C4	6.54	1.38	1.33
1	AA	1510	C	N1-C6	6.54	1.41	1.37
26	BB	572	A	C8-N7	-6.54	1.26	1.31
26	BB	881	G	C5'-C4'	6.54	1.59	1.51
26	BB	1492	G	C6-O6	-6.54	1.18	1.24
26	BB	1573	G	N9-C4	6.54	1.43	1.38
26	BB	2238	G	C2-N3	6.54	1.38	1.32
1	AA	558	G	C4'-O4'	-6.53	1.37	1.45
1	AA	882	C	C2'-C1'	-6.53	1.46	1.53
1	AA	1306	A	C3'-C2'	-6.53	1.45	1.52
26	BB	423	A	N9-C4	6.53	1.41	1.37
26	BB	671	C	C2'-C1'	-6.53	1.46	1.53
26	BB	37	C	P-O5'	6.53	1.66	1.59
26	BB	137	U	N1-C2	6.53	1.44	1.38
26	BB	285	G	C2-N3	6.53	1.38	1.32
26	BB	1000	A	C6-N1	-6.53	1.30	1.35
1	AA	346	G	N7-C5	-6.53	1.35	1.39
1	AA	431	A	N9-C4	6.53	1.41	1.37
26	BB	760	G	N7-C5	6.53	1.43	1.39
26	BB	1222	U	C4'-C3'	6.53	1.60	1.53
26	BB	2364	C	C4-C5	6.53	1.48	1.43
26	BB	180	G	P-O5'	6.53	1.66	1.59
26	BB	1408	G	N9-C8	6.53	1.42	1.37
26	BB	1968	G	C4'-C3'	-6.53	1.46	1.53
1	AA	713	G	C2-N3	6.53	1.38	1.32
25	BA	85	G	O4'-C1'	6.53	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1314	C	C4'-C3'	-6.53	1.46	1.53
26	BB	1385	A	C4'-O4'	-6.53	1.37	1.45
26	BB	1721	G	C5-C6	6.53	1.48	1.42
1	AA	539	A	C5-C4	-6.53	1.34	1.38
1	AA	1075	U	O3'-P	6.53	1.69	1.61
2	AB	4	G	C2-N3	6.53	1.38	1.32
4	AD	1	C	C5'-C4'	6.53	1.59	1.51
25	BA	87	U	O4'-C1'	6.53	1.50	1.41
26	BB	208	C	N3-C4	6.53	1.38	1.33
26	BB	1574	C	C4'-C3'	6.53	1.60	1.53
26	BB	2588	G	C6-N1	-6.53	1.34	1.39
49	BY	38	ARG	CZ-NH1	6.53	1.41	1.33
1	AA	1213	A	C8-N7	6.52	1.36	1.31
1	AA	1329	A	C5-C4	-6.52	1.34	1.38
1	AA	1346	A	N3-C4	6.52	1.38	1.34
1	AA	1354	U	C2-N3	6.52	1.42	1.37
26	BB	1511	G	N3-C4	6.52	1.40	1.35
26	BB	2682	A	O4'-C1'	6.52	1.50	1.41
1	AA	130	A	C6-N1	-6.52	1.30	1.35
1	AA	154	U	C4'-O4'	-6.52	1.37	1.45
1	AA	360	G	C8-N7	6.52	1.34	1.30
1	AA	740	U	C4-C5	6.52	1.49	1.43
2	AB	10	G	N1-C2	6.52	1.43	1.37
4	AD	65	G	C2'-C1'	-6.52	1.46	1.53
26	BB	704	G	O5'-C5'	-6.52	1.32	1.42
1	AA	637	C	C4'-O4'	-6.52	1.37	1.45
25	BA	45	A	C6-N1	-6.52	1.30	1.35
25	BA	73	A	P-O5'	6.52	1.66	1.59
26	BB	778	G	N3-C4	6.52	1.40	1.35
1	AA	973	G	C6-N1	6.52	1.44	1.39
26	BB	57	C	O3'-P	6.52	1.69	1.61
26	BB	250	G	P-O5'	-6.52	1.53	1.59
26	BB	1379	U	C4'-O4'	-6.52	1.37	1.45
1	AA	532	A	N7-C5	-6.52	1.35	1.39
1	AA	1164	G	C5'-C4'	6.52	1.59	1.51
26	BB	1161	C	N3-C4	6.52	1.38	1.33
26	BB	2364	C	O3'-P	6.52	1.69	1.61
26	BB	2474	U	C3'-C2'	6.52	1.60	1.52
26	BB	2545	G	C6-N1	-6.52	1.34	1.39
26	BB	2735	G	C6-O6	-6.52	1.18	1.24
1	AA	896	C	C4'-O4'	-6.52	1.37	1.45
1	AA	1383	C	C4'-O4'	-6.52	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	1	A	C4'-C3'	6.52	1.60	1.53
3	AC	16	A	C4'-C3'	6.52	1.60	1.53
26	BB	372	G	C2-N3	6.52	1.38	1.32
1	AA	499	A	C6-N1	-6.51	1.30	1.35
1	AA	1339	A	O3'-P	6.51	1.69	1.61
26	BB	1626	A	C5'-C4'	6.51	1.59	1.51
1	AA	120	A	P-O5'	6.51	1.66	1.59
5	AE	192	PRO	N-CA	-6.51	1.36	1.47
26	BB	322	A	C5-C4	-6.51	1.34	1.38
26	BB	522	A	N9-C4	-6.51	1.33	1.37
26	BB	620	G	N3-C4	6.51	1.40	1.35
26	BB	675	A	N9-C4	-6.51	1.33	1.37
26	BB	779	U	C5-C6	6.51	1.40	1.34
26	BB	1937	A	N9-C4	6.51	1.41	1.37
1	AA	70	U	P-O5'	-6.51	1.53	1.59
26	BB	603	A	C8-N7	-6.51	1.26	1.31
26	BB	1484	U	C4'-O4'	-6.51	1.37	1.45
26	BB	1887	C	P-O5'	6.51	1.66	1.59
1	AA	164	G	N3-C4	6.51	1.40	1.35
26	BB	2342	C	P-O5'	-6.51	1.53	1.59
1	AA	200	G	N1-C2	6.51	1.43	1.37
1	AA	273	U	C2'-C1'	6.51	1.60	1.53
25	BA	84	G	C5-C6	6.51	1.48	1.42
26	BB	2542	A	C2-N3	6.51	1.39	1.33
1	AA	549	C	P-O5'	-6.50	1.53	1.59
25	BA	31	C	C4-C5	6.50	1.48	1.43
26	BB	452	G	C2'-O2'	6.50	1.50	1.41
26	BB	458	G	C8-N7	6.50	1.34	1.30
1	AA	188	C	C5-C6	6.50	1.39	1.34
1	AA	526	C	C2-N3	6.50	1.41	1.35
1	AA	563	A	N7-C5	-6.50	1.35	1.39
1	AA	1304	G	C5-C4	-6.50	1.33	1.38
2	AB	38	A	C2'-O2'	6.50	1.50	1.41
26	BB	856	G	N1-C2	6.50	1.43	1.37
26	BB	1432	G	N9-C8	6.50	1.42	1.37
26	BB	2817	U	C2-N3	6.50	1.42	1.37
1	AA	29	U	C2-N3	6.50	1.42	1.37
1	AA	72	A	P-O5'	6.50	1.66	1.59
1	AA	814	A	N1-C2	-6.50	1.28	1.34
1	AA	1151	A	N9-C4	6.50	1.41	1.37
26	BB	96	C	C4'-O4'	-6.50	1.37	1.45
26	BB	1584	U	C5-C6	6.50	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2787	C	N1-C2	6.50	1.46	1.40
26	BB	2845	U	C4-C5	6.50	1.49	1.43
1	AA	605	U	C2-N3	6.50	1.42	1.37
1	AA	655	A	N3-C4	6.50	1.38	1.34
1	AA	902	G	C5'-C4'	6.50	1.59	1.51
1	AA	1452	C	N3-C4	6.50	1.38	1.33
4	AD	20	G	N7-C5	-6.50	1.35	1.39
26	BB	235	U	C3'-C2'	6.50	1.60	1.52
26	BB	824	U	C5'-C4'	6.50	1.59	1.51
26	BB	943	A	C5-C4	6.50	1.43	1.38
26	BB	1384	A	O5'-C5'	-6.50	1.32	1.42
26	BB	1673	G	C2'-C1'	-6.50	1.46	1.53
26	BB	2115	G	N7-C5	6.50	1.43	1.39
34	BJ	83	TYR	CG-CD2	6.50	1.47	1.39
1	AA	619	U	C2-N3	6.50	1.42	1.37
1	AA	960	U	P-O5'	6.50	1.66	1.59
26	BB	697	G	O3'-P	-6.50	1.53	1.61
26	BB	1288	G	P-O5'	6.50	1.66	1.59
26	BB	1584	U	C4-C5	6.50	1.49	1.43
26	BB	2736	A	N3-C4	6.50	1.38	1.34
1	AA	1130	A	C6-N6	6.50	1.39	1.33
26	BB	1785	A	C4'-O4'	-6.50	1.37	1.45
26	BB	2340	A	C4'-O4'	-6.50	1.37	1.45
30	BF	64	GLY	CA-C	6.50	1.62	1.51
1	AA	144	G	C2-N3	6.49	1.38	1.32
1	AA	491	G	C3'-C2'	6.49	1.60	1.52
1	AA	663	A	C5-C4	-6.49	1.34	1.38
1	AA	875	U	N1-C2	6.49	1.44	1.38
1	AA	885	G	N1-C2	6.49	1.43	1.37
26	BB	189	G	C6-N1	6.49	1.44	1.39
26	BB	1341	G	N9-C8	-6.49	1.33	1.37
1	AA	7	A	N7-C5	6.49	1.43	1.39
1	AA	9	G	C6-N1	-6.49	1.35	1.39
26	BB	343	C	N1-C6	6.49	1.41	1.37
26	BB	2780	G	C2-N3	6.49	1.38	1.32
1	AA	1464	U	C5'-C4'	6.49	1.59	1.51
2	AB	66	C	C2'-O2'	6.49	1.50	1.41
26	BB	185	G	C3'-O3'	6.49	1.51	1.42
26	BB	1385	A	N7-C5	6.49	1.43	1.39
26	BB	2184	A	C6-N1	6.49	1.40	1.35
1	AA	575	G	C6-N1	6.49	1.44	1.39
1	AA	714	G	N3-C4	6.49	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	702	U	O3'-P	6.49	1.69	1.61
26	BB	2873	A	N9-C4	-6.49	1.33	1.37
26	BB	1585	C	C4'-O4'	-6.49	1.37	1.45
26	BB	2684	U	C2-N3	6.49	1.42	1.37
4	AD	50	G	C5-C6	6.49	1.48	1.42
25	BA	59	A	N9-C4	6.49	1.41	1.37
26	BB	1369	G	C8-N7	6.49	1.34	1.30
26	BB	2120	G	C5-C6	6.49	1.48	1.42
1	AA	1350	A	C4'-C3'	6.48	1.60	1.53
26	BB	1131	G	O3'-P	6.48	1.69	1.61
26	BB	820	A	C4'-O4'	-6.48	1.37	1.45
26	BB	2367	G	C4'-O4'	-6.48	1.37	1.45
1	AA	771	G	N1-C2	6.48	1.43	1.37
1	AA	1396	A	C5'-C4'	6.48	1.59	1.51
26	BB	300	A	O3'-P	6.48	1.69	1.61
26	BB	319	G	N7-C5	-6.48	1.35	1.39
26	BB	679	C	P-O5'	6.48	1.66	1.59
26	BB	1478	G	O3'-P	6.48	1.69	1.61
26	BB	1991	U	O3'-P	6.48	1.69	1.61
26	BB	2353	G	C5'-C4'	6.48	1.59	1.51
26	BB	2747	G	N3-C4	6.48	1.40	1.35
1	AA	721	G	C6-N1	-6.48	1.35	1.39
1	AA	790	A	C2'-C1'	-6.48	1.46	1.53
25	BA	97	C	O4'-C1'	6.48	1.50	1.41
26	BB	342	A	P-O5'	6.48	1.66	1.59
26	BB	1154	G	N9-C8	-6.48	1.33	1.37
26	BB	1973	G	C8-N7	6.48	1.34	1.30
1	AA	569	C	P-O5'	6.48	1.66	1.59
1	AA	1191	A	N3-C4	6.48	1.38	1.34
26	BB	2134	A	N9-C4	6.48	1.41	1.37
1	AA	778	G	C8-N7	6.48	1.34	1.30
26	BB	1511	G	C3'-C2'	6.48	1.60	1.52
1	AA	652	U	C2-N3	6.47	1.42	1.37
1	AA	1072	G	C2-N3	6.47	1.38	1.32
4	AD	69	C	C1'-N1	6.47	1.58	1.48
4	AD	75	C	N3-C4	6.47	1.38	1.33
26	BB	241	A	N9-C4	-6.47	1.33	1.37
26	BB	446	G	C2-N3	6.47	1.38	1.32
26	BB	486	C	N1-C6	6.47	1.41	1.37
26	BB	622	G	O3'-P	6.47	1.69	1.61
26	BB	2788	C	C2-N3	6.47	1.41	1.35
1	AA	723	U	C5'-C4'	6.47	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	906	A	C6-N1	-6.47	1.31	1.35
1	AA	964	A	C6-N6	-6.47	1.28	1.33
1	AA	1230	C	C2-O2	-6.47	1.18	1.24
26	BB	1271	G	N7-C5	-6.47	1.35	1.39
26	BB	1304	A	N3-C4	6.47	1.38	1.34
26	BB	1963	U	P-O5'	6.47	1.66	1.59
26	BB	2564	A	C4'-O4'	-6.47	1.37	1.45
1	AA	978	A	N3-C4	6.47	1.38	1.34
1	AA	1358	U	N3-C4	6.47	1.44	1.38
26	BB	230	G	C8-N7	-6.47	1.27	1.30
26	BB	563	A	C4'-C3'	-6.47	1.46	1.53
26	BB	1396	U	C4-C5	6.47	1.49	1.43
1	AA	1	A	N3-C4	6.47	1.38	1.34
26	BB	2071	A	C2'-O2'	6.47	1.50	1.41
26	BB	1000	A	C4'-O4'	-6.47	1.37	1.45
26	BB	1122	G	C6-N1	6.47	1.44	1.39
1	AA	894	G	P-O5'	6.47	1.66	1.59
4	AD	25	U	P-O5'	6.47	1.66	1.59
26	BB	215	G	N7-C5	6.47	1.43	1.39
26	BB	314	C	C5'-C4'	6.47	1.59	1.51
1	AA	220	G	C2-N3	6.46	1.38	1.32
1	AA	312	C	C2-N3	6.46	1.41	1.35
1	AA	369	G	C8-N7	-6.46	1.27	1.30
1	AA	617	G	C5-C4	-6.46	1.33	1.38
26	BB	1089	A	C4'-C3'	-6.46	1.46	1.53
26	BB	2738	A	N1-C2	-6.46	1.28	1.34
1	AA	10	A	N7-C5	-6.46	1.35	1.39
26	BB	670	A	C6-N1	6.46	1.40	1.35
26	BB	1627	G	N3-C4	6.46	1.40	1.35
26	BB	2699	C	C1'-N1	6.46	1.58	1.48
26	BB	2723	C	C2-N3	6.46	1.41	1.35
1	AA	1034	G	N1-C2	6.46	1.43	1.37
1	AA	1429	A	N3-C4	6.46	1.38	1.34
26	BB	200	U	C2-N3	6.46	1.42	1.37
26	BB	1755	A	C8-N7	-6.46	1.27	1.31
26	BB	2062	A	N3-C4	6.46	1.38	1.34
26	BB	113	U	C4-O4	6.46	1.28	1.23
26	BB	1647	U	C4-C5	6.46	1.49	1.43
26	BB	1752	C	C2'-O2'	6.46	1.50	1.41
1	AA	242	G	P-O5'	6.46	1.66	1.59
26	BB	95	A	P-O5'	6.46	1.66	1.59
26	BB	970	U	N1-C2	6.46	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1392	A	P-O5'	6.46	1.66	1.59
26	BB	1412	U	C2-O2	6.46	1.28	1.22
26	BB	2476	A	N3-C4	6.46	1.38	1.34
26	BB	2713	U	C4-C5	6.46	1.49	1.43
26	BB	2825	G	P-O5'	6.46	1.66	1.59
1	AA	1026	G	C3'-C2'	-6.46	1.45	1.52
1	AA	1231	G	P-O5'	6.46	1.66	1.59
26	BB	1755	A	C5-C4	-6.46	1.34	1.38
26	BB	2080	A	C5-C4	-6.46	1.34	1.38
26	BB	2355	G	C5-C6	6.46	1.48	1.42
26	BB	966	G	N3-C4	6.46	1.40	1.35
26	BB	2881	U	N3-C4	6.46	1.44	1.38
1	AA	443	C	N1-C6	6.45	1.41	1.37
1	AA	1219	A	N9-C4	-6.45	1.33	1.37
26	BB	2315	G	N9-C4	-6.45	1.32	1.38
26	BB	934	U	N3-C4	6.45	1.44	1.38
26	BB	1343	G	C8-N7	-6.45	1.27	1.30
1	AA	344	A	C5'-C4'	6.45	1.59	1.51
1	AA	645	G	C2'-C1'	6.45	1.60	1.53
1	AA	944	G	C2-N2	-6.45	1.28	1.34
26	BB	685	A	N7-C5	-6.45	1.35	1.39
26	BB	964	C	N1-C6	-6.45	1.33	1.37
26	BB	1709	U	C4-C5	6.45	1.49	1.43
26	BB	1892	C	N1-C6	-6.45	1.33	1.37
1	AA	1181	G	P-O5'	6.45	1.66	1.59
1	AA	1307	U	P-O5'	6.45	1.66	1.59
26	BB	667	U	C2-O2	6.45	1.28	1.22
26	BB	1074	G	C8-N7	6.45	1.34	1.30
26	BB	1127	A	C4'-O4'	-6.45	1.37	1.45
1	AA	1266	G	N7-C5	-6.45	1.35	1.39
1	AA	1271	A	C6-N6	-6.45	1.28	1.33
26	BB	2742	G	C8-N7	-6.45	1.27	1.30
1	AA	268	U	C3'-C2'	6.45	1.60	1.52
1	AA	281	G	C5-C6	6.45	1.48	1.42
1	AA	365	U	P-O5'	6.45	1.66	1.59
26	BB	154	U	C2'-O2'	-6.45	1.33	1.41
26	BB	467	G	N1-C2	6.45	1.43	1.37
26	BB	933	A	C5'-C4'	6.45	1.59	1.51
26	BB	1707	G	C5-C6	6.45	1.48	1.42
26	BB	1958	C	P-O5'	6.45	1.66	1.59
26	BB	2722	G	N9-C8	6.45	1.42	1.37
1	AA	40	C	O5'-C5'	-6.44	1.32	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	232	G	N7-C5	-6.44	1.35	1.39
26	BB	1750	G	C8-N7	-6.44	1.27	1.30
26	BB	2001	C	C4'-O4'	-6.44	1.37	1.45
1	AA	602	A	N9-C8	-6.44	1.32	1.37
1	AA	729	A	P-O5'	6.44	1.66	1.59
1	AA	1020	G	N9-C4	-6.44	1.32	1.38
2	AB	75	C	C2-O2	-6.44	1.18	1.24
26	BB	357	C	N1-C2	6.44	1.46	1.40
26	BB	1638	C	C5-C6	6.44	1.39	1.34
26	BB	1913	A	N7-C5	6.44	1.43	1.39
26	BB	1985	C	C4-C5	6.44	1.48	1.43
26	BB	2471	A	C5-C4	-6.44	1.34	1.38
1	AA	105	G	N9-C8	-6.44	1.33	1.37
1	AA	801	U	N1-C2	6.44	1.44	1.38
1	AA	1135	U	C4'-O4'	-6.44	1.37	1.45
1	AA	1141	C	P-O5'	6.44	1.66	1.59
1	AA	1513	A	C6-N1	6.44	1.40	1.35
26	BB	162	U	C2-N3	6.44	1.42	1.37
26	BB	1184	U	P-O5'	6.44	1.66	1.59
26	BB	1656	C	P-O5'	6.44	1.66	1.59
26	BB	2135	A	N9-C4	-6.44	1.33	1.37
1	AA	1027	C	P-O5'	6.44	1.66	1.59
26	BB	1453	A	C4'-C3'	6.44	1.60	1.53
26	BB	1708	C	P-O5'	6.44	1.66	1.59
26	BB	1991	U	N1-C2	6.44	1.44	1.38
26	BB	1115	G	C6-N1	-6.44	1.35	1.39
26	BB	2641	G	C3'-C2'	6.44	1.60	1.52
1	AA	91	U	O3'-P	6.44	1.68	1.61
1	AA	1447	A	N3-C4	6.44	1.38	1.34
26	BB	2763	G	C4'-C3'	6.44	1.60	1.53
1	AA	774	G	C6-O6	-6.43	1.18	1.24
1	AA	1182	G	C2-N3	6.43	1.37	1.32
26	BB	456	C	C4'-O4'	-6.43	1.37	1.45
26	BB	471	A	P-O5'	6.43	1.66	1.59
26	BB	579	G	C6-N1	-6.43	1.35	1.39
1	AA	415	A	C5'-C4'	6.43	1.59	1.51
1	AA	1036	A	N9-C4	-6.43	1.33	1.37
1	AA	1187	G	N3-C4	6.43	1.40	1.35
1	AA	1256	A	O3'-P	6.43	1.68	1.61
2	AB	52	A	N3-C4	6.43	1.38	1.34
25	BA	42	C	C2-O2	-6.43	1.18	1.24
26	BB	287	G	C6-N1	6.43	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	508	A	N3-C4	6.43	1.38	1.34
26	BB	641	U	N1-C2	-6.43	1.32	1.38
26	BB	655	A	P-O5'	6.43	1.66	1.59
26	BB	2730	C	N1-C6	6.43	1.41	1.37
26	BB	2884	U	C4-O4	-6.43	1.18	1.23
1	AA	1108	G	N1-C2	6.43	1.42	1.37
1	AA	1194	U	C2-N3	6.43	1.42	1.37
26	BB	1050	A	P-O5'	6.43	1.66	1.59
26	BB	2112	G	N1-C2	6.43	1.42	1.37
1	AA	670	G	C5-C6	6.43	1.48	1.42
26	BB	110	G	C4'-C3'	6.43	1.60	1.53
26	BB	819	A	P-O5'	6.43	1.66	1.59
26	BB	924	G	C4'-O4'	-6.43	1.37	1.45
26	BB	1660	G	N7-C5	6.43	1.43	1.39
26	BB	2463	C	C5-C6	6.43	1.39	1.34
26	BB	2574	G	C8-N7	-6.43	1.27	1.30
31	BG	163	GLU	CG-CD	6.43	1.61	1.51
1	AA	826	C	N1-C2	6.43	1.46	1.40
26	BB	531	C	P-O5'	6.43	1.66	1.59
1	AA	1208	C	N3-C4	6.43	1.38	1.33
1	AA	1470	U	N3-C4	6.43	1.44	1.38
26	BB	124	G	N1-C2	6.43	1.42	1.37
26	BB	1764	C	C2-N3	6.43	1.40	1.35
1	AA	10	A	C5-C4	-6.42	1.34	1.38
1	AA	465	A	C6-N6	6.42	1.39	1.33
25	BA	108	A	P-O5'	6.42	1.66	1.59
26	BB	1051	G	C8-N7	6.42	1.34	1.30
26	BB	1542	U	C3'-C2'	6.42	1.60	1.52
26	BB	1961	C	C5-C6	6.42	1.39	1.34
26	BB	1984	G	C2-N3	6.42	1.37	1.32
26	BB	2382	G	N7-C5	6.42	1.43	1.39
26	BB	2467	C	C4-C5	6.42	1.48	1.43
26	BB	2701	U	C2-N3	6.42	1.42	1.37
48	BX	2	PHE	CG-CD2	6.42	1.48	1.38
1	AA	64	G	C4'-C3'	6.42	1.60	1.53
26	BB	1571	A	P-O5'	6.42	1.66	1.59
26	BB	2779	U	P-O5'	6.42	1.66	1.59
1	AA	15	G	C4'-O4'	-6.42	1.37	1.45
1	AA	703	G	N1-C2	6.42	1.42	1.37
1	AA	1072	G	N9-C8	6.42	1.42	1.37
1	AA	1500	A	N9-C4	-6.42	1.33	1.37
26	BB	1181	U	C4-C5	6.42	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1904	G	C5-C4	-6.42	1.33	1.38
26	BB	2355	G	N1-C2	6.42	1.42	1.37
26	BB	2638	G	C2-N2	6.42	1.41	1.34
26	BB	2903	U	C5'-C4'	6.42	1.59	1.51
1	AA	112	G	O3'-P	6.42	1.68	1.61
1	AA	1079	G	C8-N7	6.42	1.34	1.30
1	AA	486	U	C3'-C2'	6.42	1.60	1.52
1	AA	766	A	N3-C4	6.42	1.38	1.34
1	AA	1301	U	N3-C4	-6.42	1.32	1.38
26	BB	218	A	C8-N7	6.42	1.36	1.31
26	BB	1060	U	C2-N3	6.42	1.42	1.37
1	AA	310	G	C5'-C4'	6.42	1.59	1.51
26	BB	439	A	C3'-C2'	-6.42	1.45	1.52
26	BB	1115	G	N9-C8	-6.42	1.33	1.37
26	BB	1309	G	N7-C5	6.42	1.43	1.39
26	BB	1893	C	N1-C2	6.42	1.46	1.40
26	BB	142	A	N9-C4	6.42	1.41	1.37
26	BB	912	C	C5-C6	6.42	1.39	1.34
1	AA	337	G	O3'-P	6.41	1.68	1.61
1	AA	796	C	N1-C6	6.41	1.41	1.37
1	AA	1270	G	C5-C4	-6.41	1.33	1.38
1	AA	1540	U	N1-C6	-6.41	1.32	1.38
3	AC	14	G	C4'-O4'	-6.41	1.37	1.45
26	BB	2305	U	N1-C2	6.41	1.44	1.38
26	BB	2621	G	C6-N1	6.41	1.44	1.39
26	BB	2680	U	C2'-O2'	-6.41	1.33	1.41
1	AA	105	G	N1-C2	6.41	1.42	1.37
1	AA	712	A	N3-C4	-6.41	1.31	1.34
1	AA	1042	A	C6-N1	-6.41	1.31	1.35
1	AA	1062	U	C5'-C4'	6.41	1.59	1.51
1	AA	1425	U	N1-C6	6.41	1.43	1.38
1	AA	1459	G	P-O5'	6.41	1.66	1.59
26	BB	176	A	N7-C5	-6.41	1.35	1.39
26	BB	223	A	N7-C5	6.41	1.43	1.39
26	BB	684	G	C8-N7	6.41	1.34	1.30
26	BB	2640	G	N9-C8	-6.41	1.33	1.37
1	AA	637	C	C5'-C4'	6.41	1.59	1.51
26	BB	100	U	C2-N3	6.41	1.42	1.37
26	BB	273	G	N9-C8	-6.41	1.33	1.37
26	BB	347	A	N9-C8	-6.41	1.32	1.37
26	BB	1878	G	C2-N2	-6.41	1.28	1.34
26	BB	2033	A	C4'-O4'	-6.41	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2318	G	C2-N3	6.41	1.37	1.32
26	BB	2749	A	C5-C4	6.41	1.43	1.38
1	AA	83	C	C4-C5	6.41	1.48	1.43
1	AA	1526	G	N7-C5	-6.41	1.35	1.39
4	AD	10	G	N9-C4	-6.41	1.32	1.38
25	BA	58	A	N9-C8	-6.41	1.32	1.37
26	BB	864	G	N7-C5	6.41	1.43	1.39
26	BB	953	G	C2'-C1'	-6.41	1.46	1.53
26	BB	1160	G	C5'-C4'	6.41	1.59	1.51
26	BB	1266	G	N7-C5	-6.41	1.35	1.39
26	BB	1456	G	C2-N3	6.41	1.37	1.32
26	BB	2506	U	N1-C6	6.41	1.43	1.38
26	BB	2753	A	O3'-P	6.41	1.68	1.61
26	BB	2771	C	C4'-O4'	-6.41	1.37	1.45
1	AA	1019	A	C6-N1	-6.41	1.31	1.35
1	AA	1155	A	N3-C4	6.41	1.38	1.34
26	BB	54	G	N7-C5	6.41	1.43	1.39
26	BB	108	G	C2-N3	6.41	1.37	1.32
26	BB	890	C	N1-C6	6.41	1.41	1.37
26	BB	1605	C	N1-C2	6.41	1.46	1.40
1	AA	319	G	N3-C4	-6.40	1.30	1.35
26	BB	281	C	C2'-C1'	6.40	1.60	1.53
1	AA	127	G	N1-C2	6.40	1.42	1.37
3	AC	59	A	N9-C4	-6.40	1.34	1.37
26	BB	1182	G	C5'-C4'	6.40	1.59	1.51
26	BB	1274	A	C6-N6	6.40	1.39	1.33
1	AA	148	G	C2-N3	6.40	1.37	1.32
1	AA	606	G	N7-C5	-6.40	1.35	1.39
1	AA	663	A	C8-N7	6.40	1.36	1.31
1	AA	913	A	C3'-O3'	6.40	1.51	1.42
26	BB	311	A	C8-N7	-6.40	1.27	1.31
26	BB	417	C	C4-N4	6.40	1.39	1.33
26	BB	551	G	N1-C2	6.40	1.42	1.37
26	BB	1486	U	N3-C4	6.40	1.44	1.38
26	BB	1906	G	C3'-C2'	-6.40	1.45	1.52
26	BB	2898	U	C2-N3	6.40	1.42	1.37
1	AA	120	A	C3'-C2'	-6.40	1.45	1.52
1	AA	991	U	C5'-C4'	6.40	1.59	1.51
1	AA	1365	G	N3-C4	6.40	1.40	1.35
26	BB	1686	C	C5'-C4'	6.40	1.59	1.51
4	AD	53	G	C5-C6	6.40	1.48	1.42
26	BB	697	G	N1-C2	6.40	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	788	A	N3-C4	6.40	1.38	1.34
26	BB	1578	U	C4-C5	6.40	1.49	1.43
26	BB	1903	G	C2-N3	6.40	1.37	1.32
26	BB	2154	A	N9-C4	6.40	1.41	1.37
26	BB	2732	G	O3'-P	-6.40	1.53	1.61
1	AA	310	G	C8-N7	6.40	1.34	1.30
1	AA	344	A	P-O5'	6.40	1.66	1.59
1	AA	769	G	C2-N3	6.40	1.37	1.32
1	AA	1371	G	N9-C4	-6.40	1.32	1.38
1	AA	326	G	O3'-P	6.39	1.68	1.61
1	AA	439	U	C5'-C4'	6.39	1.59	1.51
1	AA	907	A	P-O5'	6.39	1.66	1.59
26	BB	53	A	C8-N7	-6.39	1.27	1.31
26	BB	1557	C	N3-C4	6.39	1.38	1.33
26	BB	2528	U	O3'-P	-6.39	1.53	1.61
26	BB	2852	G	N9-C8	6.39	1.42	1.37
1	AA	523	A	C8-N7	-6.39	1.27	1.31
1	AA	1285	A	C5-C6	6.39	1.46	1.41
26	BB	216	A	C5'-C4'	6.39	1.59	1.51
26	BB	585	G	C4'-O4'	-6.39	1.37	1.45
26	BB	1146	C	N1-C2	6.39	1.46	1.40
26	BB	1214	A	O3'-P	6.39	1.68	1.61
26	BB	1777	U	N1-C2	6.39	1.44	1.38
26	BB	1792	G	P-O5'	6.39	1.66	1.59
26	BB	1905	C	C2-N3	6.39	1.40	1.35
26	BB	2376	A	C5-C4	-6.39	1.34	1.38
26	BB	2448	A	C2'-C1'	6.39	1.60	1.53
26	BB	536	G	C4'-O4'	-6.39	1.37	1.45
26	BB	579	G	O3'-P	-6.39	1.53	1.61
26	BB	2393	U	O4'-C1'	6.39	1.50	1.41
26	BB	279	A	C6-N1	6.39	1.40	1.35
36	BL	75	TYR	CE1-CZ	6.39	1.46	1.38
1	AA	97	G	P-O5'	6.39	1.66	1.59
1	AA	142	G	C8-N7	-6.39	1.27	1.30
1	AA	331	G	C2-N2	6.39	1.41	1.34
1	AA	603	U	O3'-P	6.39	1.68	1.61
1	AA	858	G	N9-C4	-6.39	1.32	1.38
1	AA	1018	G	C8-N7	-6.39	1.27	1.30
1	AA	1097	C	C5-C6	6.39	1.39	1.34
26	BB	482	A	C6-N6	6.39	1.39	1.33
26	BB	1876	A	C8-N7	-6.39	1.27	1.31
26	BB	2567	G	N1-C2	-6.39	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	226	G	C6-N1	6.38	1.44	1.39
1	AA	384	G	C5'-C4'	-6.38	1.43	1.51
2	AB	41	C	C4'-O4'	-6.38	1.37	1.45
26	BB	408	G	N9-C8	6.38	1.42	1.37
26	BB	533	G	C5-C4	6.38	1.42	1.38
26	BB	1006	C	C5-C6	6.38	1.39	1.34
26	BB	1529	G	C2'-O2'	6.38	1.50	1.41
26	BB	1825	U	O3'-P	6.38	1.68	1.61
37	BM	70	ARG	NE-CZ	6.38	1.41	1.33
1	AA	273	U	O3'-P	6.38	1.68	1.61
1	AA	442	G	C8-N7	6.38	1.34	1.30
26	BB	952	G	P-O5'	6.38	1.66	1.59
26	BB	1185	G	P-O5'	6.38	1.66	1.59
26	BB	1783	A	N9-C8	6.38	1.42	1.37
26	BB	2135	A	C8-N7	-6.38	1.27	1.31
26	BB	2898	U	O5'-C5'	-6.38	1.32	1.42
1	AA	530	G	C4'-O4'	-6.38	1.37	1.45
1	AA	1253	G	O4'-C1'	6.38	1.50	1.41
26	BB	538	A	C6-N1	6.38	1.40	1.35
26	BB	765	C	C2-N3	6.38	1.40	1.35
26	BB	1399	C	N1-C6	6.38	1.41	1.37
26	BB	2222	C	O3'-P	6.38	1.68	1.61
1	AA	270	A	N7-C5	-6.38	1.35	1.39
1	AA	334	C	P-O5'	6.38	1.66	1.59
1	AA	737	C	O4'-C1'	6.38	1.50	1.41
25	BA	104	A	C8-N7	-6.38	1.27	1.31
26	BB	530	G	N7-C5	-6.38	1.35	1.39
26	BB	1173	U	O3'-P	6.38	1.68	1.61
1	AA	659	U	N3-C4	6.38	1.44	1.38
1	AA	905	U	N1-C2	6.38	1.44	1.38
1	AA	1127	G	O3'-P	6.38	1.68	1.61
26	BB	95	A	N3-C4	6.38	1.38	1.34
26	BB	1530	G	C5-C6	6.38	1.48	1.42
26	BB	1727	C	C2'-O2'	6.38	1.50	1.41
26	BB	1879	C	C4-N4	6.38	1.39	1.33
26	BB	2035	G	C4'-O4'	-6.38	1.37	1.45
26	BB	2823	A	P-O5'	6.38	1.66	1.59
1	AA	543	U	N3-C4	6.38	1.44	1.38
1	AA	1232	U	C2'-C1'	-6.38	1.46	1.53
26	BB	277	G	C2'-C1'	6.38	1.60	1.53
26	BB	854	C	C2-N3	6.38	1.40	1.35
26	BB	2420	C	C4'-C3'	6.38	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	581	C	O4'-C1'	6.38	1.50	1.41
26	BB	1299	G	C2'-C1'	6.38	1.60	1.53
26	BB	1596	A	C6-N6	6.38	1.39	1.33
1	AA	887	G	N7-C5	6.37	1.43	1.39
1	AA	1054	C	P-O5'	6.37	1.66	1.59
1	AA	1405	G	C6-O6	-6.37	1.18	1.24
2	AB	49	G	C3'-C2'	6.37	1.59	1.52
26	BB	605	G	P-O5'	6.37	1.66	1.59
26	BB	1975	G	N7-C5	6.37	1.43	1.39
26	BB	2349	G	P-O5'	6.37	1.66	1.59
1	AA	728	A	C5-C4	-6.37	1.34	1.38
1	AA	1359	C	C4-C5	6.37	1.48	1.43
26	BB	86	G	C4'-C3'	6.37	1.60	1.53
26	BB	152	A	C5-C4	6.37	1.43	1.38
26	BB	1119	U	C2-N3	6.37	1.42	1.37
26	BB	2040	G	C8-N7	6.37	1.34	1.30
26	BB	2123	G	C8-N7	6.37	1.34	1.30
26	BB	2185	U	C2'-C1'	-6.37	1.46	1.53
26	BB	2194	U	C2-N3	6.37	1.42	1.37
1	AA	787	A	N9-C8	6.37	1.42	1.37
1	AA	824	G	N1-C2	6.37	1.42	1.37
26	BB	122	G	C8-N7	-6.37	1.27	1.30
26	BB	242	G	C2-N2	-6.37	1.28	1.34
26	BB	848	C	C2-N3	6.37	1.40	1.35
26	BB	2040	G	P-O5'	6.37	1.66	1.59
1	AA	1128	C	C4'-O4'	-6.37	1.37	1.45
1	AA	1198	G	C5-C4	-6.37	1.33	1.38
2	AB	59	G	C2-N3	6.37	1.37	1.32
14	AN	93	GLU	CG-CD	6.37	1.61	1.51
26	BB	1189	A	P-O5'	6.37	1.66	1.59
26	BB	1230	A	C5-C6	6.37	1.46	1.41
26	BB	1434	A	N3-C4	6.37	1.38	1.34
26	BB	1480	C	C2-O2	-6.37	1.18	1.24
26	BB	215	G	C5'-C4'	6.37	1.58	1.51
26	BB	1183	U	P-O5'	6.37	1.66	1.59
26	BB	1992	G	O3'-P	6.37	1.68	1.61
26	BB	2097	A	C5'-C4'	6.37	1.58	1.51
26	BB	2655	G	N9-C4	6.37	1.43	1.38
1	AA	313	A	C5-C4	-6.37	1.34	1.38
1	AA	566	G	C5-C4	-6.37	1.33	1.38
1	AA	717	U	C4-C5	6.37	1.49	1.43
1	AA	729	A	N3-C4	6.37	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	637	A	C6-N1	6.37	1.40	1.35
26	BB	1000	A	N7-C5	6.37	1.43	1.39
26	BB	1743	G	O3'-P	6.37	1.68	1.61
26	BB	2207	C	C4-N4	-6.37	1.28	1.33
4	AD	63	C	P-O5'	6.36	1.66	1.59
26	BB	638	G	C6-N1	6.36	1.44	1.39
26	BB	863	A	O3'-P	6.36	1.68	1.61
26	BB	2631	G	N7-C5	-6.36	1.35	1.39
26	BB	2649	C	C4-C5	6.36	1.48	1.43
1	AA	294	U	C4'-O4'	-6.36	1.37	1.45
1	AA	499	A	C2'-C1'	-6.36	1.46	1.53
26	BB	1348	C	N1-C2	6.36	1.46	1.40
26	BB	2473	U	N1-C2	6.36	1.44	1.38
1	AA	917	G	C3'-C2'	6.36	1.59	1.52
1	AA	1087	G	C2-N3	6.36	1.37	1.32
26	BB	551	G	C2-N2	-6.36	1.28	1.34
26	BB	748	G	N7-C5	6.36	1.43	1.39
1	AA	891	U	O3'-P	-6.36	1.53	1.61
1	AA	1154	G	N9-C8	6.36	1.42	1.37
2	AB	73	G	O3'-P	6.36	1.68	1.61
26	BB	125	A	P-O5'	6.36	1.66	1.59
26	BB	2168	G	C6-O6	-6.36	1.18	1.24
26	BB	2255	G	P-O5'	-6.36	1.53	1.59
26	BB	2661	G	N9-C8	-6.36	1.33	1.37
1	AA	1216	A	C5'-C4'	6.36	1.58	1.51
1	AA	1480	A	N1-C2	-6.36	1.28	1.34
25	BA	72	G	C4'-O4'	-6.36	1.37	1.45
26	BB	2038	G	P-O5'	6.36	1.66	1.59
26	BB	2179	C	P-O5'	6.36	1.66	1.59
26	BB	2614	A	O4'-C1'	6.36	1.50	1.41
1	AA	242	G	C2'-C1'	6.36	1.60	1.53
1	AA	663	A	C4'-O4'	-6.36	1.37	1.45
1	AA	1414	U	C2'-C1'	6.36	1.60	1.53
2	AB	67	G	C2-N2	-6.36	1.28	1.34
26	BB	804	A	C8-N7	-6.36	1.27	1.31
26	BB	877	A	C6-N1	-6.36	1.31	1.35
26	BB	1231	U	C5'-C4'	6.36	1.58	1.51
26	BB	1701	A	C4'-O4'	-6.36	1.37	1.45
26	BB	2409	G	N7-C5	-6.36	1.35	1.39
26	BB	2437	G	C4'-C3'	6.36	1.60	1.53
1	AA	433	G	C3'-O3'	6.35	1.51	1.42
1	AA	537	G	N7-C5	6.35	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	17	C	N1-C6	-6.35	1.33	1.37
26	BB	2554	U	C5-C6	6.35	1.39	1.34
26	BB	1245	G	C2-N3	6.35	1.37	1.32
26	BB	1501	G	C5'-C4'	6.35	1.58	1.51
26	BB	2021	C	C4-C5	6.35	1.48	1.43
26	BB	2146	C	C4'-C3'	6.35	1.60	1.53
1	AA	264	C	C4'-C3'	-6.35	1.46	1.53
26	BB	730	A	N7-C5	-6.35	1.35	1.39
26	BB	1316	U	C2'-O2'	-6.35	1.33	1.41
26	BB	1633	G	P-O5'	6.35	1.66	1.59
26	BB	2761	A	N9-C8	6.35	1.42	1.37
1	AA	97	G	C2-N3	6.35	1.37	1.32
1	AA	168	G	N7-C5	6.35	1.43	1.39
1	AA	222	C	N1-C2	6.35	1.46	1.40
1	AA	764	C	N1-C2	-6.35	1.33	1.40
1	AA	828	U	N1-C2	6.35	1.44	1.38
1	AA	1185	G	N9-C8	6.35	1.42	1.37
1	AA	1214	C	C4'-C3'	-6.35	1.46	1.53
1	AA	1455	G	P-O5'	6.35	1.66	1.59
25	BA	6	G	N9-C4	6.35	1.43	1.38
25	BA	12	C	C5'-C4'	6.35	1.58	1.51
26	BB	1189	A	N3-C4	-6.35	1.31	1.34
26	BB	1377	G	N3-C4	6.35	1.39	1.35
26	BB	1572	A	C5'-C4'	6.35	1.58	1.51
26	BB	1731	G	C3'-C2'	6.35	1.59	1.52
26	BB	2138	G	N3-C4	6.35	1.39	1.35
1	AA	428	G	N9-C4	-6.35	1.32	1.38
4	AD	9	G	C6-N1	6.35	1.44	1.39
26	BB	771	G	N7-C5	6.35	1.43	1.39
26	BB	1046	A	C6-N6	6.35	1.39	1.33
26	BB	1601	G	C5-C6	6.35	1.48	1.42
26	BB	2051	A	C8-N7	-6.35	1.27	1.31
1	AA	299	G	N7-C5	-6.35	1.35	1.39
1	AA	1379	G	N9-C8	-6.35	1.33	1.37
26	BB	1298	C	C4-C5	6.35	1.48	1.43
26	BB	2078	C	N3-C4	-6.35	1.29	1.33
26	BB	2146	C	C2-N3	-6.35	1.30	1.35
1	AA	141	G	N1-C2	6.34	1.42	1.37
1	AA	329	A	C6-N1	6.34	1.40	1.35
1	AA	1435	G	N9-C8	6.34	1.42	1.37
26	BB	78	U	C4'-C3'	6.34	1.60	1.53
26	BB	124	G	C5'-C4'	6.34	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2454	G	C8-N7	-6.34	1.27	1.30
26	BB	2667	C	C5'-C4'	6.34	1.58	1.51
26	BB	2903	U	N1-C2	6.34	1.44	1.38
1	AA	565	U	C2-N3	6.34	1.42	1.37
1	AA	1435	G	O3'-P	6.34	1.68	1.61
26	BB	541	A	C5'-C4'	6.34	1.58	1.51
26	BB	1656	C	O3'-P	6.34	1.68	1.61
26	BB	1784	A	C4'-O4'	-6.34	1.37	1.45
1	AA	937	A	C4'-O4'	-6.34	1.37	1.45
1	AA	1398	A	C2'-C1'	6.34	1.60	1.53
1	AA	1494	G	O3'-P	-6.34	1.53	1.61
26	BB	1036	G	C5-C4	6.34	1.42	1.38
26	BB	1270	C	C2'-C1'	6.34	1.60	1.53
26	BB	2129	C	C5-C6	6.34	1.39	1.34
1	AA	243	A	C2'-C1'	6.34	1.60	1.53
1	AA	971	G	C8-N7	-6.34	1.27	1.30
1	AA	990	C	C4'-C3'	6.34	1.60	1.53
4	AD	39	A	C5-C6	6.34	1.46	1.41
26	BB	91	A	C8-N7	-6.34	1.27	1.31
26	BB	286	U	O3'-P	6.34	1.68	1.61
26	BB	651	G	C2'-O2'	6.34	1.49	1.41
26	BB	1298	C	C2-N3	6.34	1.40	1.35
26	BB	1519	G	C6-N1	6.34	1.44	1.39
26	BB	2869	G	P-O5'	6.34	1.66	1.59
1	AA	374	A	N7-C5	6.34	1.43	1.39
1	AA	927	G	C6-N1	6.34	1.44	1.39
1	AA	1183	U	C4-C5	6.34	1.49	1.43
26	BB	156	A	C4'-O4'	-6.34	1.37	1.45
26	BB	944	C	C5'-C4'	6.34	1.58	1.51
1	AA	1270	G	P-O5'	6.33	1.66	1.59
26	BB	94	A	N9-C8	-6.33	1.32	1.37
26	BB	551	G	C8-N7	6.33	1.34	1.30
26	BB	2032	G	C4'-C3'	6.33	1.60	1.53
1	AA	282	A	N7-C5	-6.33	1.35	1.39
26	BB	8	C	P-O5'	6.33	1.66	1.59
26	BB	170	U	C2-O2	-6.33	1.16	1.22
26	BB	1469	A	C3'-C2'	6.33	1.59	1.52
26	BB	2222	C	C5'-C4'	6.33	1.58	1.51
1	AA	295	C	O3'-P	6.33	1.68	1.61
1	AA	647	C	O3'-P	6.33	1.68	1.61
1	AA	816	A	C5-C4	-6.33	1.34	1.38
1	AA	890	G	C5-C4	6.33	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1458	G	C8-N7	-6.33	1.27	1.30
26	BB	482	A	P-O5'	6.33	1.66	1.59
26	BB	1281	G	N7-C5	6.33	1.43	1.39
26	BB	2209	G	N1-C2	6.33	1.42	1.37
26	BB	2430	A	C5'-C4'	6.33	1.58	1.51
26	BB	2737	G	O3'-P	6.33	1.68	1.61
1	AA	56	U	C4'-O4'	-6.33	1.37	1.45
1	AA	758	C	C5-C6	6.33	1.39	1.34
26	BB	440	C	C5'-C4'	-6.33	1.43	1.51
26	BB	863	A	N3-C4	6.33	1.38	1.34
26	BB	2352	A	N3-C4	6.33	1.38	1.34
1	AA	243	A	N1-C2	-6.33	1.28	1.34
26	BB	1430	G	C5'-C4'	6.33	1.58	1.51
26	BB	1943	U	N1-C2	6.33	1.44	1.38
1	AA	521	G	P-O5'	6.33	1.66	1.59
26	BB	55	G	C8-N7	-6.33	1.27	1.30
26	BB	1416	G	O4'-C1'	-6.33	1.33	1.41
1	AA	140	U	P-O5'	6.32	1.66	1.59
1	AA	677	U	O4'-C1'	6.32	1.49	1.41
1	AA	1189	U	C4-C5	-6.32	1.37	1.43
4	AD	70	C	N3-C4	6.32	1.38	1.33
26	BB	1184	U	C2'-C1'	6.32	1.60	1.53
26	BB	1443	U	P-O5'	6.32	1.66	1.59
26	BB	1775	U	P-O5'	-6.32	1.53	1.59
26	BB	2447	G	N3-C4	6.32	1.39	1.35
26	BB	2469	A	P-O5'	-6.32	1.53	1.59
26	BB	2742	G	C2'-C1'	-6.32	1.46	1.53
1	AA	55	A	N9-C4	6.32	1.41	1.37
1	AA	524	G	C5'-C4'	6.32	1.58	1.51
26	BB	120	U	N1-C2	6.32	1.44	1.38
26	BB	529	A	C3'-C2'	6.32	1.59	1.52
26	BB	668	A	C6-N1	6.32	1.40	1.35
1	AA	371	A	N3-C4	6.32	1.38	1.34
1	AA	876	C	C2-N3	6.32	1.40	1.35
26	BB	1467	U	P-O5'	6.32	1.66	1.59
26	BB	1530	G	N3-C4	-6.32	1.31	1.35
26	BB	1776	G	C2'-C1'	-6.32	1.46	1.53
26	BB	2036	C	P-O5'	6.32	1.66	1.59
26	BB	2843	G	C8-N7	-6.32	1.27	1.30
26	BB	996	A	C4'-O4'	-6.32	1.37	1.45
26	BB	1024	G	O3'-P	6.32	1.68	1.61
1	AA	1245	C	P-O5'	6.32	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2012	G	C5'-C4'	6.32	1.58	1.51
26	BB	2071	A	O3'-P	-6.32	1.53	1.61
26	BB	2176	A	P-O5'	-6.32	1.53	1.59
26	BB	2584	U	C5'-C4'	6.32	1.58	1.51
1	AA	211	G	N1-C2	-6.32	1.32	1.37
26	BB	374	A	N3-C4	6.32	1.38	1.34
26	BB	540	C	P-O5'	6.32	1.66	1.59
26	BB	645	C	O3'-P	6.32	1.68	1.61
26	BB	826	U	N1-C6	6.32	1.43	1.38
26	BB	835	C	N3-C4	6.32	1.38	1.33
26	BB	2386	A	O3'-P	6.32	1.68	1.61
26	BB	2775	G	O3'-P	6.32	1.68	1.61
1	AA	1424	U	C4-O4	6.31	1.28	1.23
26	BB	795	C	C5'-C4'	6.31	1.58	1.51
1	AA	15	G	C4'-C3'	6.31	1.60	1.53
26	BB	2353	G	N9-C8	6.31	1.42	1.37
26	BB	2603	G	C5-C6	6.31	1.48	1.42
26	BB	2690	U	C4'-O4'	-6.31	1.37	1.45
26	BB	2872	A	C8-N7	6.31	1.35	1.31
1	AA	167	A	P-O5'	6.31	1.66	1.59
1	AA	921	U	C2'-O2'	-6.31	1.33	1.41
26	BB	334	C	C4'-O4'	-6.31	1.37	1.45
26	BB	430	A	P-O5'	6.31	1.66	1.59
26	BB	2731	G	N9-C8	-6.31	1.33	1.37
1	AA	1436	U	O3'-P	6.31	1.68	1.61
2	AB	26	A	N3-C4	6.31	1.38	1.34
26	BB	283	G	O3'-P	6.31	1.68	1.61
26	BB	908	C	O3'-P	6.31	1.68	1.61
26	BB	1851	U	O4'-C1'	6.31	1.49	1.41
1	AA	1439	G	C2-N3	6.31	1.37	1.32
26	BB	223	A	N3-C4	6.31	1.38	1.34
26	BB	1749	A	C4'-C3'	-6.31	1.46	1.53
26	BB	2355	G	N3-C4	6.31	1.39	1.35
26	BB	2751	G	N9-C4	6.31	1.43	1.38
25	BA	109	A	N3-C4	6.31	1.38	1.34
25	BA	115	A	O3'-P	-6.31	1.53	1.61
26	BB	2402	U	P-O5'	6.31	1.66	1.59
26	BB	2404	U	C4-C5	6.31	1.49	1.43
26	BB	2405	G	C5-C4	-6.31	1.33	1.38
26	BB	2813	A	N9-C4	-6.31	1.34	1.37
1	AA	138	G	P-O5'	6.30	1.66	1.59
1	AA	186	C	C2-O2	-6.30	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1164	G	C5-C6	6.30	1.48	1.42
26	BB	359	G	N1-C2	-6.30	1.32	1.37
26	BB	1604	C	C3'-O3'	6.30	1.50	1.42
1	AA	548	G	N7-C5	6.30	1.43	1.39
1	AA	604	G	C6-N1	6.30	1.44	1.39
26	BB	56	A	C6-N6	-6.30	1.28	1.33
1	AA	312	C	C2-O2	-6.30	1.18	1.24
1	AA	753	A	C5-C4	-6.30	1.34	1.38
1	AA	803	G	N9-C8	6.30	1.42	1.37
26	BB	244	A	C2'-C1'	-6.30	1.46	1.53
26	BB	357	C	C5-C6	6.30	1.39	1.34
26	BB	620	G	C5'-C4'	6.30	1.58	1.51
26	BB	1930	G	C5'-C4'	6.30	1.58	1.51
26	BB	2395	C	C4-C5	6.30	1.48	1.43
1	AA	1310	G	C6-N1	6.30	1.44	1.39
1	AA	1169	A	P-O5'	6.30	1.66	1.59
26	BB	613	A	C4'-C3'	6.30	1.60	1.53
26	BB	2347	C	C2-N3	6.30	1.40	1.35
1	AA	377	G	C5-C6	6.30	1.48	1.42
1	AA	478	A	C4'-O4'	-6.30	1.37	1.45
1	AA	666	G	N3-C4	-6.30	1.31	1.35
26	BB	541	A	C5-C4	6.30	1.43	1.38
26	BB	104	A	N9-C4	-6.29	1.34	1.37
26	BB	1159	U	N1-C2	6.29	1.44	1.38
1	AA	328	C	O3'-P	6.29	1.68	1.61
1	AA	1337	G	C5-C4	6.29	1.42	1.38
3	AC	38	G	N7-C5	6.29	1.43	1.39
26	BB	624	C	C4-C5	6.29	1.48	1.43
26	BB	2470	G	C8-N7	6.29	1.34	1.30
26	BB	2641	G	C2'-C1'	6.29	1.60	1.53
1	AA	203	G	C6-O6	6.29	1.29	1.24
1	AA	248	C	C5'-C4'	6.29	1.58	1.51
1	AA	414	A	C5'-C4'	6.29	1.58	1.51
1	AA	988	G	C5-C4	6.29	1.42	1.38
26	BB	72	U	O5'-C5'	-6.29	1.32	1.42
26	BB	311	A	C6-N1	-6.29	1.31	1.35
26	BB	1057	A	O4'-C1'	6.29	1.49	1.41
26	BB	2015	A	O3'-P	6.29	1.68	1.61
26	BB	2762	C	N3-C4	-6.29	1.29	1.33
1	AA	124	C	C2-N3	6.29	1.40	1.35
1	AA	141	G	C2-N2	-6.29	1.28	1.34
1	AA	1033	G	P-O5'	6.29	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	26	C	C2-O2	-6.29	1.18	1.24
26	BB	1411	U	N1-C2	6.29	1.44	1.38
26	BB	2764	A	C2-N3	6.29	1.39	1.33
1	AA	668	G	N9-C8	6.29	1.42	1.37
1	AA	944	G	N3-C4	6.29	1.39	1.35
26	BB	218	A	N9-C4	6.29	1.41	1.37
26	BB	976	G	C8-N7	-6.29	1.27	1.30
26	BB	1570	A	P-O5'	6.29	1.66	1.59
1	AA	812	G	C5-C4	6.29	1.42	1.38
1	AA	1524	C	O3'-P	-6.29	1.53	1.61
1	AA	1524	C	C4-C5	6.29	1.48	1.43
26	BB	295	G	C6-N1	6.29	1.44	1.39
26	BB	1610	A	P-O5'	6.29	1.66	1.59
26	BB	1709	U	O3'-P	6.29	1.68	1.61
26	BB	2168	G	C3'-C2'	6.29	1.59	1.52
1	AA	647	C	C5'-C4'	6.29	1.58	1.51
3	AC	54	U	C2-O2	6.29	1.28	1.22
26	BB	318	C	C2-N3	6.29	1.40	1.35
26	BB	1537	G	C6-N1	-6.29	1.35	1.39
26	BB	1812	U	O3'-P	6.29	1.68	1.61
26	BB	2829	A	C5-C6	6.29	1.46	1.41
26	BB	2340	A	N7-C5	-6.28	1.35	1.39
26	BB	2381	A	O3'-P	6.28	1.68	1.61
26	BB	529	A	N3-C4	6.28	1.38	1.34
26	BB	807	U	P-O5'	6.28	1.66	1.59
26	BB	1690	A	P-O5'	6.28	1.66	1.59
26	BB	2518	A	C4'-C3'	-6.28	1.46	1.53
1	AA	784	A	O4'-C1'	6.28	1.49	1.41
1	AA	991	U	C3'-C2'	6.28	1.59	1.52
4	AD	52	C	O3'-P	6.28	1.68	1.61
26	BB	786	C	P-O5'	-6.28	1.53	1.59
26	BB	941	A	C2'-C1'	6.28	1.60	1.53
26	BB	1691	C	P-O5'	6.28	1.66	1.59
26	BB	2244	U	O4'-C1'	6.28	1.49	1.41
26	BB	2267	A	N3-C4	6.28	1.38	1.34
26	BB	2599	G	P-O5'	6.28	1.66	1.59
26	BB	322	A	C6-N1	6.28	1.40	1.35
26	BB	1515	A	N9-C4	-6.28	1.34	1.37
1	AA	832	G	N7-C5	-6.28	1.35	1.39
3	AC	47	C	C4'-C3'	6.28	1.60	1.53
26	BB	562	U	C4'-O4'	-6.28	1.37	1.45
26	BB	1193	G	N1-C2	6.28	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1202	G	C4'-C3'	6.28	1.60	1.53
26	BB	1455	G	N7-C5	6.28	1.43	1.39
26	BB	2644	G	C2-N3	6.28	1.37	1.32
44	BT	23	GLU	CG-CD	6.28	1.61	1.51
1	AA	359	G	C5-C6	6.28	1.48	1.42
25	BA	99	A	N3-C4	6.28	1.38	1.34
26	BB	127	A	N1-C2	-6.28	1.28	1.34
26	BB	1922	G	C2-N3	6.28	1.37	1.32
26	BB	2508	G	C8-N7	6.28	1.34	1.30
26	BB	2561	U	N3-C4	6.28	1.44	1.38
1	AA	458	U	N1-C6	-6.27	1.32	1.38
26	BB	1193	G	N3-C4	6.27	1.39	1.35
26	BB	1265	A	P-O5'	-6.27	1.53	1.59
26	BB	1392	A	N7-C5	6.27	1.43	1.39
26	BB	1984	G	C3'-C2'	6.27	1.59	1.52
1	AA	195	A	N9-C4	6.27	1.41	1.37
1	AA	450	G	N9-C4	6.27	1.43	1.38
7	AG	201	GLU	CG-CD	6.27	1.61	1.51
26	BB	55	G	N9-C8	-6.27	1.33	1.37
26	BB	836	G	C5-C6	6.27	1.48	1.42
26	BB	1733	G	N3-C4	6.27	1.39	1.35
26	BB	1830	C	N1-C6	6.27	1.41	1.37
26	BB	2527	C	O4'-C1'	6.27	1.49	1.41
1	AA	608	A	N1-C2	-6.27	1.28	1.34
3	AC	33	A	N7-C5	6.27	1.43	1.39
25	BA	115	A	N9-C4	6.27	1.41	1.37
26	BB	295	G	N3-C4	6.27	1.39	1.35
26	BB	848	C	C4-C5	-6.27	1.38	1.43
26	BB	1674	G	C6-O6	-6.27	1.18	1.24
1	AA	632	U	C4-C5	6.27	1.49	1.43
1	AA	954	G	P-O5'	-6.27	1.53	1.59
26	BB	132	G	C3'-C2'	-6.27	1.45	1.52
26	BB	255	A	P-O5'	6.27	1.66	1.59
26	BB	439	A	C3'-O3'	6.27	1.50	1.42
26	BB	1217	U	N3-C4	6.27	1.44	1.38
26	BB	2103	C	N1-C6	6.27	1.41	1.37
1	AA	652	U	P-O5'	6.27	1.66	1.59
1	AA	924	C	O4'-C1'	6.27	1.49	1.41
26	BB	272	A	C2-N3	6.27	1.39	1.33
26	BB	438	G	N9-C8	-6.27	1.33	1.37
26	BB	817	C	C2-N3	6.27	1.40	1.35
26	BB	2482	A	C4'-C3'	-6.27	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1663	G	C5-C4	6.27	1.42	1.38
1	AA	27	G	C6-N1	6.26	1.44	1.39
1	AA	761	G	C8-N7	6.26	1.34	1.30
1	AA	1071	C	N3-C4	6.26	1.38	1.33
4	AD	31	G	C4'-C3'	-6.26	1.46	1.53
26	BB	81	G	C2-N3	6.26	1.37	1.32
26	BB	2217	G	C8-N7	6.26	1.34	1.30
1	AA	1096	C	C2-N3	6.26	1.40	1.35
25	BA	50	A	O3'-P	6.26	1.68	1.61
26	BB	425	G	C6-O6	-6.26	1.18	1.24
26	BB	1513	U	C2-O2	6.26	1.27	1.22
1	AA	591	U	N1-C6	-6.26	1.32	1.38
1	AA	692	U	C2-O2	6.26	1.27	1.22
1	AA	880	C	N1-C6	-6.26	1.33	1.37
1	AA	977	A	C4'-C3'	6.26	1.60	1.53
26	BB	79	C	C2-N3	6.26	1.40	1.35
26	BB	581	C	C2-N3	6.26	1.40	1.35
29	BE	118	PHE	CG-CD1	6.26	1.48	1.38
1	AA	326	G	C5-C6	6.26	1.48	1.42
2	AB	5	G	C2-N3	6.26	1.37	1.32
2	AB	43	G	C5-C4	6.26	1.42	1.38
26	BB	833	A	C6-N6	6.26	1.39	1.33
26	BB	1173	U	C5'-C4'	6.26	1.58	1.51
26	BB	1931	U	C5-C6	6.26	1.39	1.34
26	BB	2256	G	N1-C2	6.26	1.42	1.37
25	BA	112	G	C8-N7	-6.26	1.27	1.30
1	AA	459	A	N3-C4	-6.26	1.31	1.34
1	AA	1099	G	C6-N1	6.26	1.44	1.39
1	AA	1212	U	C2-N3	6.26	1.42	1.37
10	AJ	78	ARG	CZ-NH1	6.26	1.41	1.33
25	BA	56	G	N9-C4	-6.26	1.32	1.38
26	BB	1067	A	N3-C4	6.26	1.38	1.34
26	BB	1206	G	C5-C6	6.26	1.48	1.42
1	AA	23	C	N1-C6	6.25	1.41	1.37
1	AA	1302	C	C3'-C2'	6.25	1.59	1.52
26	BB	2668	G	O3'-P	6.25	1.68	1.61
26	BB	2900	A	C6-N1	-6.25	1.31	1.35
1	AA	1131	G	C5'-C4'	6.25	1.58	1.51
25	BA	109	A	C4'-O4'	-6.25	1.37	1.45
26	BB	1827	U	C4-O4	6.25	1.28	1.23
26	BB	2111	U	P-O5'	6.25	1.66	1.59
26	BB	2248	C	C5-C6	6.25	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	675	A	P-O5'	6.25	1.66	1.59
1	AA	1225	A	C5'-C4'	6.25	1.58	1.51
4	AD	7	G	C2-N3	6.25	1.37	1.32
26	BB	313	G	C2-N3	6.25	1.37	1.32
26	BB	752	A	N7-C5	6.25	1.43	1.39
26	BB	927	A	O3'-P	6.25	1.68	1.61
26	BB	1071	G	C5-C4	-6.25	1.33	1.38
26	BB	1499	C	C2-N3	6.25	1.40	1.35
26	BB	1512	C	C2-N3	6.25	1.40	1.35
26	BB	1523	U	C3'-O3'	6.25	1.50	1.42
26	BB	2441	U	P-O5'	6.25	1.66	1.59
1	AA	1204	A	C5'-C4'	6.25	1.58	1.51
26	BB	2867	G	C6-N1	6.25	1.44	1.39
1	AA	338	A	P-O5'	6.25	1.66	1.59
1	AA	1413	A	N3-C4	6.25	1.38	1.34
2	AB	74	C	C2-N3	6.25	1.40	1.35
26	BB	12	U	C2'-C1'	6.25	1.60	1.53
26	BB	272	A	O3'-P	6.25	1.68	1.61
26	BB	286	U	C4-O4	-6.25	1.18	1.23
26	BB	698	C	N3-C4	6.25	1.38	1.33
26	BB	767	U	C4'-O4'	-6.25	1.37	1.45
26	BB	818	G	C2'-O2'	6.25	1.49	1.41
26	BB	927	A	C8-N7	-6.25	1.27	1.31
26	BB	1066	U	C4-C5	6.25	1.49	1.43
26	BB	1266	G	C4'-O4'	-6.25	1.37	1.45
26	BB	1339	G	C6-O6	-6.25	1.18	1.24
26	BB	2075	U	P-O5'	6.25	1.66	1.59
26	BB	2338	C	N1-C2	6.25	1.46	1.40
1	AA	239	U	C2-N3	6.25	1.42	1.37
1	AA	1037	C	C2'-O2'	6.25	1.49	1.41
1	AA	1492	A	N9-C4	6.25	1.41	1.37
26	BB	2681	C	N3-C4	6.25	1.38	1.33
1	AA	771	G	N9-C4	6.25	1.43	1.38
26	BB	2110	G	C6-O6	-6.25	1.18	1.24
1	AA	655	A	C6-N6	6.24	1.39	1.33
4	AD	63	C	N1-C6	-6.24	1.33	1.37
26	BB	828	U	C4'-O4'	-6.24	1.37	1.45
26	BB	1335	C	C4-C5	6.24	1.48	1.43
26	BB	2119	A	N7-C5	6.24	1.43	1.39
26	BB	1159	U	N1-C6	6.24	1.43	1.38
26	BB	1331	G	C3'-C2'	6.24	1.59	1.52
26	BB	2104	C	N1-C6	6.24	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2768	U	C2-N3	6.24	1.42	1.37
1	AA	704	A	C8-N7	-6.24	1.27	1.31
26	BB	1568	G	N7-C5	6.24	1.43	1.39
26	BB	2050	C	N3-C4	-6.24	1.29	1.33
1	AA	903	G	C8-N7	-6.24	1.27	1.30
1	AA	1480	A	O3'-P	6.24	1.68	1.61
1	AA	1488	G	C6-N1	6.24	1.44	1.39
26	BB	495	G	O3'-P	6.24	1.68	1.61
26	BB	1438	U	C2-O2	6.24	1.27	1.22
26	BB	2598	A	N3-C4	6.24	1.38	1.34
1	AA	1255	G	C4'-C3'	6.24	1.60	1.53
1	AA	1465	A	N9-C4	6.24	1.41	1.37
26	BB	1641	A	C5-C4	-6.24	1.34	1.38
26	BB	1862	G	N7-C5	-6.24	1.35	1.39
26	BB	2209	G	N7-C5	6.24	1.43	1.39
26	BB	754	U	C4-C5	6.24	1.49	1.43
26	BB	2630	G	O3'-P	6.24	1.68	1.61
1	AA	547	A	C6-N6	6.23	1.39	1.33
26	BB	1660	G	C4'-O4'	-6.23	1.37	1.45
1	AA	172	A	C6-N1	-6.23	1.31	1.35
1	AA	309	A	C2'-O2'	-6.23	1.33	1.41
1	AA	725	G	C3'-C2'	-6.23	1.45	1.52
1	AA	1194	U	N1-C6	6.23	1.43	1.38
1	AA	1486	G	C4'-C3'	6.23	1.60	1.53
26	BB	114	U	P-O5'	6.23	1.66	1.59
26	BB	892	A	N7-C5	6.23	1.43	1.39
26	BB	1176	U	O4'-C1'	6.23	1.49	1.41
26	BB	1415	U	C4'-C3'	-6.23	1.46	1.53
26	BB	1750	G	N9-C8	6.23	1.42	1.37
26	BB	2189	U	N1-C2	6.23	1.44	1.38
26	BB	2595	G	C2-N2	6.23	1.40	1.34
26	BB	2743	U	C2-N3	6.23	1.42	1.37
1	AA	86	G	C2'-O2'	6.23	1.49	1.41
1	AA	641	U	N3-C4	6.23	1.44	1.38
1	AA	908	A	P-O5'	6.23	1.66	1.59
1	AA	1413	A	C3'-O3'	6.23	1.50	1.42
1	AA	1463	U	C4'-O4'	-6.23	1.37	1.45
26	BB	242	G	C5-C4	6.23	1.42	1.38
26	BB	462	C	N3-C4	-6.23	1.29	1.33
26	BB	879	G	N7-C5	-6.23	1.35	1.39
26	BB	1224	U	C4-O4	6.23	1.28	1.23
26	BB	1913	A	P-O5'	6.23	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2693	G	N1-C2	6.23	1.42	1.37
1	AA	1288	A	N9-C4	6.23	1.41	1.37
26	BB	128	C	C2-N3	6.23	1.40	1.35
26	BB	2192	U	C5-C6	6.23	1.39	1.34
1	AA	462	G	P-O5'	6.23	1.66	1.59
1	AA	750	C	C5'-C4'	6.23	1.58	1.51
1	AA	814	A	C5-C6	6.23	1.46	1.41
25	BA	51	G	P-O5'	6.23	1.66	1.59
26	BB	34	U	C5'-C4'	6.23	1.58	1.51
26	BB	87	U	C4-C5	6.23	1.49	1.43
26	BB	310	A	N3-C4	6.23	1.38	1.34
26	BB	479	A	C8-N7	-6.23	1.27	1.31
26	BB	1135	C	N1-C6	6.23	1.40	1.37
26	BB	1172	C	C4'-C3'	-6.23	1.46	1.53
26	BB	1314	C	N1-C2	6.23	1.46	1.40
26	BB	2315	G	N3-C4	-6.23	1.31	1.35
26	BB	2545	G	C6-O6	-6.23	1.18	1.24
43	BS	23	TYR	CG-CD2	6.23	1.47	1.39
1	AA	1089	G	C8-N7	-6.22	1.27	1.30
1	AA	1460	C	C5'-C4'	6.22	1.58	1.51
25	BA	24	G	C6-N1	6.22	1.44	1.39
26	BB	373	U	C2-N3	6.22	1.42	1.37
26	BB	538	A	N7-C5	6.22	1.43	1.39
26	BB	1338	G	C5-C4	-6.22	1.33	1.38
26	BB	1573	G	C6-O6	-6.22	1.18	1.24
26	BB	2211	A	C8-N7	-6.22	1.27	1.31
26	BB	2432	A	C5'-C4'	6.22	1.58	1.51
3	AC	50	U	C4-C5	6.22	1.49	1.43
26	BB	983	A	N3-C4	6.22	1.38	1.34
26	BB	1070	A	C8-N7	6.22	1.35	1.31
26	BB	1544	A	O3'-P	6.22	1.68	1.61
26	BB	1879	C	C4'-O4'	-6.22	1.37	1.45
1	AA	1091	U	P-O5'	6.22	1.66	1.59
26	BB	2413	G	P-O5'	6.22	1.66	1.59
1	AA	101	A	N7-C5	6.22	1.43	1.39
1	AA	587	G	N9-C8	-6.22	1.33	1.37
1	AA	1078	U	P-O5'	6.22	1.66	1.59
1	AA	1270	G	O3'-P	6.22	1.68	1.61
1	AA	1496	C	C4-C5	6.22	1.48	1.43
26	BB	905	A	C8-N7	-6.22	1.27	1.31
26	BB	1956	U	C4-O4	6.22	1.28	1.23
26	BB	2400	G	P-O5'	6.22	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	47	A	C8-N7	6.22	1.35	1.31
11	AK	79	ARG	CZ-NH1	6.22	1.41	1.33
26	BB	1587	G	C4'-O4'	-6.22	1.37	1.45
1	AA	1078	U	C4-C5	6.22	1.49	1.43
1	AA	1215	G	C2'-C1'	-6.22	1.46	1.53
1	AA	1323	G	P-O5'	6.22	1.66	1.59
4	AD	5	G	C2-N3	6.22	1.37	1.32
26	BB	1107	G	N3-C4	6.22	1.39	1.35
26	BB	1437	C	C2-O2	-6.22	1.18	1.24
26	BB	2399	G	N3-C4	6.22	1.39	1.35
1	AA	694	A	C6-N1	-6.21	1.31	1.35
2	AB	76	A	C5-C4	-6.21	1.34	1.38
26	BB	354	A	C6-N1	6.21	1.40	1.35
26	BB	1386	C	P-O5'	6.21	1.66	1.59
26	BB	1636	U	C2-N3	6.21	1.42	1.37
26	BB	2136	G	N7-C5	-6.21	1.35	1.39
3	AC	50	U	C3'-C2'	6.21	1.59	1.52
26	BB	160	A	C2-N3	6.21	1.39	1.33
26	BB	580	U	C2-N3	6.21	1.42	1.37
26	BB	1643	G	N9-C4	-6.21	1.32	1.38
26	BB	1748	C	C5-C6	6.21	1.39	1.34
26	BB	2816	G	C5-C4	-6.21	1.34	1.38
1	AA	1525	G	C5-C4	-6.21	1.34	1.38
4	AD	69	C	C4'-O4'	-6.21	1.37	1.45
26	BB	496	G	N7-C5	6.21	1.43	1.39
26	BB	1099	G	N3-C4	6.21	1.39	1.35
26	BB	2621	G	N9-C4	-6.21	1.32	1.38
26	BB	113	U	C5-C6	6.21	1.39	1.34
1	AA	539	A	N3-C4	6.21	1.38	1.34
1	AA	886	G	C5-C4	-6.21	1.34	1.38
26	BB	1552	A	C8-N7	-6.21	1.27	1.31
26	BB	1813	G	N7-C5	-6.21	1.35	1.39
26	BB	2491	U	C3'-C2'	6.21	1.59	1.52
1	AA	178	C	C5'-C4'	6.21	1.58	1.51
1	AA	344	A	N3-C4	6.21	1.38	1.34
25	BA	98	G	C5-C4	6.21	1.42	1.38
26	BB	580	U	C4'-O4'	-6.21	1.37	1.45
26	BB	141	G	N3-C4	6.21	1.39	1.35
26	BB	797	G	C2'-C1'	-6.21	1.46	1.53
26	BB	911	A	P-O5'	-6.21	1.53	1.59
26	BB	1175	A	C5-C4	6.21	1.43	1.38
26	BB	1945	G	N3-C4	6.21	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2315	G	C4'-O4'	-6.21	1.37	1.45
26	BB	2798	U	N1-C2	6.21	1.44	1.38
4	AD	39	A	N1-C2	6.20	1.40	1.34
26	BB	475	C	C2-N3	6.20	1.40	1.35
26	BB	926	G	C6-N1	6.20	1.43	1.39
26	BB	933	A	N9-C8	6.20	1.42	1.37
26	BB	1109	C	C2'-C1'	6.20	1.60	1.53
26	BB	2256	G	N7-C5	6.20	1.43	1.39
1	AA	1452	C	N1-C2	6.20	1.46	1.40
26	BB	830	G	N1-C2	6.20	1.42	1.37
26	BB	134	G	C8-N7	-6.20	1.27	1.30
26	BB	453	A	N3-C4	6.20	1.38	1.34
26	BB	554	U	O4'-C1'	6.20	1.49	1.41
1	AA	40	C	C2-N3	6.20	1.40	1.35
1	AA	189	A	N9-C8	6.20	1.42	1.37
1	AA	418	C	C5-C6	6.20	1.39	1.34
1	AA	1507	A	N3-C4	6.20	1.38	1.34
25	BA	96	G	N7-C5	6.20	1.43	1.39
26	BB	315	G	C3'-O3'	-6.20	1.33	1.42
26	BB	852	U	P-O5'	6.20	1.66	1.59
26	BB	984	A	C5'-C4'	6.20	1.58	1.51
26	BB	2221	G	C5'-C4'	6.20	1.58	1.51
26	BB	2428	G	C5-C4	6.20	1.42	1.38
26	BB	2713	U	P-O5'	6.20	1.66	1.59
26	BB	2899	A	C6-N6	-6.20	1.28	1.33
1	AA	508	U	C4'-C3'	6.20	1.59	1.53
1	AA	698	G	N1-C2	6.20	1.42	1.37
1	AA	1150	A	C8-N7	-6.20	1.27	1.31
1	AA	1503	A	N3-C4	6.20	1.38	1.34
1	AA	1529	G	C2-N3	6.20	1.37	1.32
26	BB	431	U	C4'-C3'	-6.20	1.46	1.53
26	BB	604	G	N1-C2	6.20	1.42	1.37
26	BB	1106	G	N7-C5	-6.20	1.35	1.39
26	BB	1842	G	P-O5'	6.20	1.66	1.59
26	BB	2169	A	N3-C4	6.20	1.38	1.34
26	BB	2602	A	N7-C5	-6.20	1.35	1.39
26	BB	2812	G	P-O5'	6.20	1.66	1.59
1	AA	123	U	C5'-C4'	6.19	1.58	1.51
11	AK	64	TYR	CE1-CZ	6.19	1.46	1.38
26	BB	2083	G	C4'-C3'	6.19	1.59	1.53
1	AA	129	A	C4'-O4'	-6.19	1.37	1.45
1	AA	184	G	N3-C4	6.19	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1106	G	N3-C4	6.19	1.39	1.35
26	BB	48	G	C6-O6	-6.19	1.18	1.24
26	BB	96	C	C1'-N1	6.19	1.58	1.48
26	BB	316	C	P-O5'	6.19	1.66	1.59
26	BB	470	A	C6-N1	-6.19	1.31	1.35
26	BB	1762	A	C5'-C4'	6.19	1.58	1.51
26	BB	2290	G	C2-N3	6.19	1.37	1.32
1	AA	470	C	O5'-C5'	-6.19	1.32	1.42
1	AA	927	G	N7-C5	-6.19	1.35	1.39
1	AA	1295	U	C4'-O4'	-6.19	1.37	1.45
1	AA	1531	A	N9-C4	-6.19	1.34	1.37
3	AC	43	U	C2-O2	6.19	1.27	1.22
25	BA	48	U	C4'-C3'	6.19	1.59	1.53
25	BA	95	U	O3'-P	6.19	1.68	1.61
26	BB	1292	G	C2-N3	6.19	1.37	1.32
26	BB	2837	A	N9-C4	-6.19	1.34	1.37
1	AA	352	C	N3-C4	-6.19	1.29	1.33
26	BB	2090	A	N1-C2	-6.19	1.28	1.34
1	AA	29	U	C2'-C1'	-6.19	1.46	1.53
1	AA	453	G	N3-C4	6.19	1.39	1.35
1	AA	478	A	N7-C5	-6.19	1.35	1.39
26	BB	72	U	O3'-P	6.19	1.68	1.61
26	BB	496	G	C2-N2	6.19	1.40	1.34
26	BB	1471	G	P-O5'	6.19	1.66	1.59
26	BB	2322	A	C5-C4	-6.19	1.34	1.38
25	BA	86	G	C4'-O4'	-6.19	1.37	1.45
26	BB	187	G	C1'-N9	6.19	1.58	1.48
26	BB	1077	A	C4'-O4'	-6.19	1.37	1.45
26	BB	1948	G	N9-C8	-6.19	1.33	1.37
26	BB	2204	G	C8-N7	-6.19	1.27	1.30
1	AA	947	G	P-O5'	6.18	1.66	1.59
25	BA	81	G	N9-C4	6.18	1.42	1.38
26	BB	153	U	C4'-O4'	-6.18	1.37	1.45
26	BB	872	U	C4'-O4'	-6.18	1.37	1.45
26	BB	1179	G	N3-C4	6.18	1.39	1.35
26	BB	1636	U	C3'-O3'	-6.18	1.33	1.42
26	BB	2622	U	C4-O4	-6.18	1.18	1.23
1	AA	1008	U	C4-C5	6.18	1.49	1.43
26	BB	2266	A	C6-N1	6.18	1.39	1.35
26	BB	1985	C	N3-C4	-6.18	1.29	1.33
1	AA	82	G	N1-C2	6.18	1.42	1.37
1	AA	217	C	O4'-C1'	6.18	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1375	A	N9-C4	6.18	1.41	1.37
1	AA	1426	G	N7-C5	6.18	1.43	1.39
26	BB	280	U	C5'-C4'	6.18	1.58	1.51
26	BB	1256	G	P-O5'	6.18	1.66	1.59
4	AD	75	C	C4'-O4'	-6.18	1.37	1.45
26	BB	1	G	C2-N3	6.18	1.37	1.32
26	BB	679	C	C2'-C1'	6.18	1.60	1.53
26	BB	2475	C	N3-C4	6.18	1.38	1.33
1	AA	392	C	N3-C4	6.18	1.38	1.33
26	BB	240	C	C4-C5	6.18	1.47	1.43
26	BB	376	G	C8-N7	-6.18	1.27	1.30
26	BB	1193	G	C6-O6	-6.18	1.18	1.24
26	BB	2825	G	C4'-O4'	-6.18	1.37	1.45
1	AA	848	C	C4'-C3'	6.17	1.59	1.53
1	AA	935	A	C5'-C4'	6.17	1.58	1.51
1	AA	1141	C	C5'-C4'	6.17	1.58	1.51
1	AA	1290	G	C6-O6	6.17	1.29	1.24
1	AA	1504	G	C3'-C2'	6.17	1.59	1.52
26	BB	185	G	C2-N3	6.17	1.37	1.32
26	BB	326	G	C3'-C2'	-6.17	1.46	1.52
1	AA	1484	C	O3'-P	6.17	1.68	1.61
26	BB	1824	G	N3-C4	-6.17	1.31	1.35
26	BB	2407	A	C6-N6	-6.17	1.29	1.33
26	BB	2453	A	C1'-N9	6.17	1.58	1.48
1	AA	73	C	N1-C2	6.17	1.46	1.40
1	AA	963	G	C2-N2	6.17	1.40	1.34
1	AA	1432	G	C2-N3	6.17	1.37	1.32
26	BB	297	G	C5-C4	-6.17	1.34	1.38
26	BB	953	G	P-O5'	6.17	1.66	1.59
26	BB	1156	A	C5-C6	6.17	1.46	1.41
26	BB	1544	A	C2'-C1'	6.17	1.60	1.53
26	BB	2050	C	C5'-C4'	-6.17	1.44	1.51
26	BB	2871	U	N1-C2	6.17	1.44	1.38
26	BB	2885	G	C2-N3	6.17	1.37	1.32
1	AA	1387	G	P-O5'	6.17	1.66	1.59
26	BB	124	G	C4'-O4'	-6.17	1.37	1.45
26	BB	982	C	C2'-C1'	6.17	1.60	1.53
26	BB	1341	G	C5-C4	6.17	1.42	1.38
26	BB	2679	A	C4'-C3'	-6.17	1.46	1.53
1	AA	298	A	C2'-C1'	6.17	1.60	1.53
1	AA	337	G	C6-N1	6.17	1.43	1.39
26	BB	51	G	C2-N3	6.17	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	203	A	P-O5'	-6.17	1.53	1.59
26	BB	1576	U	C4'-O4'	-6.17	1.37	1.45
1	AA	1528	U	P-O5'	6.17	1.66	1.59
25	BA	76	G	C8-N7	-6.17	1.27	1.30
26	BB	70	G	N9-C8	6.17	1.42	1.37
26	BB	337	C	P-O5'	6.17	1.66	1.59
26	BB	514	A	N9-C8	-6.17	1.32	1.37
26	BB	2099	U	N1-C2	6.17	1.44	1.38
26	BB	2513	A	C2'-O2'	6.17	1.49	1.41
26	BB	2888	C	C5-C6	6.17	1.39	1.34
26	BB	1128	G	C6-N1	-6.17	1.35	1.39
26	BB	2297	A	N3-C4	6.17	1.38	1.34
1	AA	177	G	N9-C4	-6.16	1.33	1.38
25	BA	23	G	N9-C8	6.16	1.42	1.37
25	BA	120	U	O4'-C1'	6.16	1.49	1.41
26	BB	521	U	N1-C2	6.16	1.44	1.38
26	BB	658	U	C2-O2	6.16	1.27	1.22
26	BB	766	U	N3-C4	-6.16	1.32	1.38
26	BB	2499	C	C2-N3	6.16	1.40	1.35
1	AA	38	G	C4'-C3'	6.16	1.59	1.53
1	AA	1196	A	C5-C6	6.16	1.46	1.41
1	AA	1225	A	N1-C2	-6.16	1.28	1.34
26	BB	2484	G	N7-C5	6.16	1.43	1.39
30	BF	183	PHE	CG-CD1	6.16	1.48	1.38
1	AA	43	C	C5-C6	6.16	1.39	1.34
1	AA	773	G	C6-N1	6.16	1.43	1.39
1	AA	1367	C	C3'-O3'	6.16	1.50	1.42
26	BB	875	G	C3'-C2'	6.16	1.59	1.52
26	BB	1182	G	C4'-O4'	-6.16	1.37	1.45
26	BB	1466	U	N1-C2	6.16	1.44	1.38
26	BB	2465	C	P-O5'	6.16	1.66	1.59
26	BB	2588	G	N9-C8	-6.16	1.33	1.37
1	AA	121	U	C5'-C4'	6.16	1.58	1.51
1	AA	332	G	C5-C4	-6.16	1.34	1.38
1	AA	629	A	C6-N6	-6.16	1.29	1.33
26	BB	488	G	C2-N3	6.16	1.37	1.32
26	BB	496	G	C2-N3	6.16	1.37	1.32
26	BB	886	A	O3'-P	6.16	1.68	1.61
26	BB	2568	U	C5'-C4'	6.16	1.58	1.51
26	BB	804	A	P-O5'	6.16	1.66	1.59
26	BB	2054	A	N7-C5	6.16	1.43	1.39
26	BB	2260	C	O3'-P	6.16	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	330	C	N1-C6	6.16	1.40	1.37
1	AA	1156	G	P-O5'	6.16	1.66	1.59
4	AD	22	A	N9-C8	6.16	1.42	1.37
26	BB	782	A	N1-C2	6.16	1.39	1.34
26	BB	1127	A	N7-C5	6.16	1.43	1.39
26	BB	1146	C	C5-C6	6.16	1.39	1.34
26	BB	2269	G	O3'-P	6.16	1.68	1.61
1	AA	471	U	C4-O4	6.15	1.28	1.23
1	AA	1257	A	C8-N7	-6.15	1.27	1.31
1	AA	1417	G	C5-C4	-6.15	1.34	1.38
26	BB	256	A	O3'-P	6.15	1.68	1.61
26	BB	851	C	N3-C4	6.15	1.38	1.33
26	BB	1935	G	N1-C2	6.15	1.42	1.37
1	AA	465	A	N3-C4	6.15	1.38	1.34
4	AD	10	G	C4'-O4'	-6.15	1.37	1.45
4	AD	64	G	N3-C4	6.15	1.39	1.35
26	BB	385	C	P-O5'	6.15	1.66	1.59
26	BB	1800	C	N1-C6	6.15	1.40	1.37
26	BB	1807	G	N7-C5	6.15	1.43	1.39
1	AA	433	G	N1-C2	6.15	1.42	1.37
3	AC	54	U	N1-C6	6.15	1.43	1.38
26	BB	698	C	C4-C5	6.15	1.47	1.43
26	BB	904	G	C6-N1	-6.15	1.35	1.39
26	BB	1650	A	N7-C5	6.15	1.43	1.39
1	AA	316	C	C3'-C2'	6.15	1.59	1.52
26	BB	426	C	C2-N3	6.15	1.40	1.35
26	BB	1218	G	N3-C4	6.15	1.39	1.35
1	AA	682	G	O3'-P	-6.15	1.53	1.61
1	AA	928	G	N1-C2	6.15	1.42	1.37
26	BB	865	C	P-O5'	6.15	1.65	1.59
26	BB	1197	G	N7-C5	-6.15	1.35	1.39
26	BB	1309	G	N3-C4	6.15	1.39	1.35
26	BB	2563	U	N1-C2	6.15	1.44	1.38
35	BK	7	TYR	CE2-CZ	6.15	1.46	1.38
1	AA	182	A	C8-N7	-6.15	1.27	1.31
1	AA	1390	U	C4'-O4'	-6.15	1.37	1.45
26	BB	2670	A	C3'-C2'	6.15	1.59	1.52
1	AA	774	G	N7-C5	-6.14	1.35	1.39
1	AA	1304	G	P-O5'	6.14	1.65	1.59
1	AA	1354	U	C4-C5	6.14	1.49	1.43
1	AA	1479	C	C5-C6	6.14	1.39	1.34
26	BB	651	G	O5'-C5'	-6.14	1.33	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1213	A	N7-C5	-6.14	1.35	1.39
26	BB	1326	U	N3-C4	-6.14	1.32	1.38
26	BB	1355	G	C5-C4	-6.14	1.34	1.38
26	BB	1478	G	C8-N7	-6.14	1.27	1.30
26	BB	1803	A	C2-N3	6.14	1.39	1.33
26	BB	1895	C	N3-C4	6.14	1.38	1.33
1	AA	321	A	C3'-C2'	6.14	1.59	1.52
26	BB	529	A	C3'-O3'	6.14	1.50	1.42
26	BB	1324	G	N9-C8	6.14	1.42	1.37
26	BB	1562	U	C4-C5	6.14	1.49	1.43
26	BB	1847	A	C3'-C2'	-6.14	1.46	1.52
26	BB	1916	A	C2-N3	-6.14	1.28	1.33
26	BB	2693	G	N7-C5	-6.14	1.35	1.39
26	BB	2748	A	N3-C4	-6.14	1.31	1.34
26	BB	2864	G	N9-C8	6.14	1.42	1.37
1	AA	260	G	C5-C4	-6.14	1.34	1.38
1	AA	769	G	C6-N1	6.14	1.43	1.39
25	BA	81	G	O3'-P	6.14	1.68	1.61
26	BB	739	A	C5'-C4'	6.14	1.58	1.51
26	BB	845	A	N3-C4	6.14	1.38	1.34
26	BB	1057	A	C4'-O4'	-6.14	1.37	1.45
1	AA	12	U	C5-C6	6.14	1.39	1.34
1	AA	1181	G	C4'-C3'	6.14	1.59	1.53
2	AB	11	U	C5'-C4'	6.14	1.58	1.51
25	BA	75	G	C5-C4	-6.14	1.34	1.38
26	BB	47	C	C5-C6	6.14	1.39	1.34
26	BB	784	G	P-O5'	6.14	1.65	1.59
26	BB	1202	G	C5-C4	6.14	1.42	1.38
26	BB	1419	A	N1-C2	-6.14	1.28	1.34
1	AA	1358	U	C5-C6	6.14	1.39	1.34
1	AA	374	A	C4'-O4'	-6.14	1.37	1.45
1	AA	548	G	C5-C4	-6.14	1.34	1.38
1	AA	1342	C	C5-C6	6.14	1.39	1.34
26	BB	134	G	C4'-O4'	-6.14	1.37	1.45
26	BB	248	G	C2-N2	6.14	1.40	1.34
26	BB	265	A	C4'-O4'	-6.14	1.37	1.45
26	BB	905	A	N7-C5	6.14	1.43	1.39
26	BB	1055	G	C3'-C2'	-6.14	1.46	1.52
26	BB	1271	G	C2'-O2'	6.14	1.49	1.41
1	AA	540	G	C2-N3	6.13	1.37	1.32
1	AA	1004	A	C3'-C2'	6.13	1.59	1.52
1	AA	1176	A	N7-C5	6.13	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	21	G	C6-O6	-6.13	1.18	1.24
26	BB	771	G	C6-N1	6.13	1.43	1.39
26	BB	1076	C	P-O5'	6.13	1.65	1.59
26	BB	1191	G	N7-C5	-6.13	1.35	1.39
26	BB	1591	A	C5-C4	6.13	1.43	1.38
26	BB	1670	C	C5'-C4'	6.13	1.58	1.51
26	BB	2569	G	C2-N2	-6.13	1.28	1.34
1	AA	717	U	C5'-C4'	6.13	1.58	1.51
1	AA	821	G	C5-C6	6.13	1.48	1.42
26	BB	663	G	N9-C8	-6.13	1.33	1.37
26	BB	1252	G	N7-C5	6.13	1.43	1.39
1	AA	7	A	C4'-C3'	6.13	1.59	1.53
1	AA	1015	G	C6-O6	-6.13	1.18	1.24
1	AA	1266	G	C5-C4	6.13	1.42	1.38
25	BA	51	G	N9-C8	-6.13	1.33	1.37
26	BB	246	C	C2-N3	-6.13	1.30	1.35
26	BB	518	G	C4'-O4'	-6.13	1.37	1.45
26	BB	2120	G	P-O5'	6.13	1.65	1.59
26	BB	2378	A	N3-C4	6.13	1.38	1.34
26	BB	2548	U	C4'-O4'	-6.13	1.37	1.45
1	AA	266	G	C2-N3	6.13	1.37	1.32
34	BJ	131	TYR	CE1-CZ	6.13	1.46	1.38
1	AA	1542	A	N7-C5	-6.13	1.35	1.39
26	BB	195	A	C2'-C1'	6.13	1.60	1.53
26	BB	361	G	C5-C4	-6.13	1.34	1.38
26	BB	748	G	O3'-P	-6.13	1.53	1.61
26	BB	1085	A	C2-N3	6.13	1.39	1.33
1	AA	54	C	C5-C6	6.13	1.39	1.34
1	AA	153	C	O3'-P	-6.13	1.53	1.61
1	AA	1244	G	C4'-C3'	-6.13	1.46	1.53
26	BB	621	A	C8-N7	-6.13	1.27	1.31
26	BB	950	G	N3-C4	6.13	1.39	1.35
26	BB	1510	G	C6-N1	6.13	1.43	1.39
26	BB	2491	U	C4'-O4'	-6.13	1.37	1.45
26	BB	2567	G	N9-C8	6.13	1.42	1.37
26	BB	2598	A	P-O5'	6.13	1.65	1.59
26	BB	2733	A	N9-C8	6.13	1.42	1.37
1	AA	361	G	N3-C4	6.12	1.39	1.35
26	BB	1099	G	P-O5'	6.12	1.65	1.59
26	BB	1383	A	N9-C8	6.12	1.42	1.37
26	BB	2056	G	O4'-C1'	6.12	1.49	1.41
1	AA	97	G	C5'-C4'	6.12	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	120	A	C6-N1	-6.12	1.31	1.35
1	AA	366	A	P-O5'	6.12	1.65	1.59
1	AA	373	A	N7-C5	6.12	1.43	1.39
1	AA	696	A	C3'-O3'	-6.12	1.33	1.42
25	BA	84	G	N7-C5	6.12	1.43	1.39
26	BB	1096	A	N3-C4	6.12	1.38	1.34
26	BB	1653	G	N3-C4	6.12	1.39	1.35
26	BB	1837	C	C2-N3	6.12	1.40	1.35
1	AA	129	A	C5'-C4'	6.12	1.58	1.51
1	AA	208	U	C5-C6	6.12	1.39	1.34
1	AA	495	A	C4'-C3'	6.12	1.59	1.53
1	AA	1418	A	N3-C4	6.12	1.38	1.34
25	BA	13	G	C6-O6	6.12	1.29	1.24
26	BB	1048	A	C3'-C2'	-6.12	1.46	1.52
26	BB	1137	G	N9-C4	-6.12	1.33	1.38
26	BB	2328	A	N9-C4	6.12	1.41	1.37
26	BB	2818	U	O3'-P	6.12	1.68	1.61
1	AA	756	C	C2'-C1'	6.12	1.60	1.53
26	BB	733	G	C5-C6	6.12	1.48	1.42
26	BB	1393	A	C6-N1	-6.12	1.31	1.35
1	AA	393	A	N7-C5	-6.12	1.35	1.39
1	AA	440	C	C5-C6	6.12	1.39	1.34
1	AA	914	A	C6-N6	-6.12	1.29	1.33
1	AA	1310	G	C4'-C3'	-6.12	1.46	1.53
26	BB	2851	A	P-O5'	-6.12	1.53	1.59
1	AA	952	U	C4'-C3'	-6.12	1.46	1.53
22	AV	72	GLU	CG-CD	6.12	1.61	1.51
26	BB	205	G	C4'-O4'	-6.12	1.37	1.45
1	AA	16	A	N7-C5	-6.12	1.35	1.39
1	AA	414	A	C5-C6	6.12	1.46	1.41
1	AA	625	U	C4'-O4'	-6.12	1.37	1.45
1	AA	1238	A	N3-C4	6.12	1.38	1.34
25	BA	39	A	N3-C4	6.12	1.38	1.34
26	BB	1809	A	N9-C8	-6.12	1.32	1.37
1	AA	57	G	C3'-C2'	6.11	1.59	1.52
1	AA	367	U	C1'-N1	6.11	1.57	1.48
1	AA	539	A	C3'-C2'	6.11	1.59	1.52
1	AA	670	G	P-O5'	6.11	1.65	1.59
1	AA	900	A	C6-N1	6.11	1.39	1.35
26	BB	44	A	N7-C5	-6.11	1.35	1.39
26	BB	569	U	O3'-P	6.11	1.68	1.61
26	BB	1744	A	N7-C5	6.11	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1756	G	C5'-C4'	6.11	1.58	1.51
26	BB	2304	G	C8-N7	6.11	1.34	1.30
26	BB	2370	G	N7-C5	6.11	1.43	1.39
26	BB	2784	U	O3'-P	6.11	1.68	1.61
1	AA	1027	C	N3-C4	6.11	1.38	1.33
1	AA	1491	G	C8-N7	6.11	1.34	1.30
3	AC	28	U	C5'-C4'	6.11	1.58	1.51
26	BB	901	C	P-O5'	6.11	1.65	1.59
26	BB	1909	C	P-O5'	6.11	1.65	1.59
26	BB	2324	U	C4'-O4'	-6.11	1.37	1.45
1	AA	627	G	N1-C2	6.11	1.42	1.37
1	AA	644	U	C2-N3	6.11	1.42	1.37
1	AA	800	G	O4'-C1'	6.11	1.49	1.41
1	AA	1385	G	N7-C5	-6.11	1.35	1.39
4	AD	8	4SU	O3'-P	-6.11	1.53	1.61
26	BB	976	G	C5-C4	6.11	1.42	1.38
26	BB	1136	G	C4'-C3'	6.11	1.59	1.53
26	BB	1889	A	C3'-C2'	6.11	1.59	1.52
26	BB	2722	G	N1-C2	6.11	1.42	1.37
1	AA	9	G	N3-C4	6.11	1.39	1.35
1	AA	117	G	N3-C4	-6.11	1.31	1.35
1	AA	1116	U	N1-C2	6.11	1.44	1.38
26	BB	122	G	N9-C8	6.11	1.42	1.37
2	AB	53	G	C5'-C4'	6.11	1.58	1.51
25	BA	61	G	C3'-C2'	6.11	1.59	1.52
26	BB	1122	G	N1-C2	6.11	1.42	1.37
26	BB	1888	G	C4'-C3'	6.11	1.59	1.53
26	BB	2271	G	C2-N3	6.11	1.37	1.32
26	BB	2567	G	N9-C4	6.11	1.42	1.38
26	BB	2676	C	C4'-O4'	-6.11	1.37	1.45
1	AA	640	A	N1-C2	-6.11	1.28	1.34
4	AD	21	H2U	O3'-P	6.11	1.68	1.61
5	AE	236	PHE	CE1-CZ	6.11	1.49	1.37
26	BB	3	U	N1-C2	6.11	1.44	1.38
1	AA	86	G	N1-C2	6.10	1.42	1.37
1	AA	447	G	C4'-O4'	-6.10	1.37	1.45
26	BB	338	G	N7-C5	-6.10	1.35	1.39
26	BB	521	U	C3'-C2'	6.10	1.59	1.52
26	BB	542	C	C4'-O4'	-6.10	1.37	1.45
26	BB	864	G	C6-N1	-6.10	1.35	1.39
26	BB	1093	G	C5-C4	6.10	1.42	1.38
1	AA	353	A	N3-C4	6.10	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	383	A	O3'-P	6.10	1.68	1.61
1	AA	861	G	N1-C2	-6.10	1.32	1.37
1	AA	1057	G	N9-C4	-6.10	1.33	1.38
1	AA	1062	U	N1-C6	6.10	1.43	1.38
1	AA	1448	C	N1-C6	6.10	1.40	1.37
26	BB	741	U	P-O5'	6.10	1.65	1.59
26	BB	1057	A	N3-C4	6.10	1.38	1.34
26	BB	2117	A	C4'-O4'	-6.10	1.37	1.45
26	BB	2830	C	N3-C4	6.10	1.38	1.33
26	BB	1862	G	N9-C8	-6.10	1.33	1.37
26	BB	2108	A	C6-N6	6.10	1.38	1.33
11	AK	76	ARG	CD-NE	6.10	1.56	1.46
26	BB	170	U	C4'-C3'	-6.10	1.46	1.53
26	BB	188	G	N9-C8	-6.10	1.33	1.37
26	BB	396	G	C6-N1	6.10	1.43	1.39
26	BB	517	C	C4'-O4'	-6.10	1.37	1.45
26	BB	655	A	C2'-C1'	-6.10	1.46	1.53
26	BB	923	G	N1-C2	6.10	1.42	1.37
26	BB	1480	C	N1-C6	6.10	1.40	1.37
26	BB	1999	C	N3-C4	6.10	1.38	1.33
26	BB	2694	G	N7-C5	-6.10	1.35	1.39
49	BY	40	ARG	NE-CZ	6.10	1.41	1.33
52	B1	52	PHE	CG-CD2	6.10	1.48	1.38
1	AA	1494	G	N1-C2	6.10	1.42	1.37
25	BA	6	G	C5'-C4'	-6.10	1.44	1.51
26	BB	576	U	C4-O4	-6.10	1.18	1.23
26	BB	634	C	C4-N4	6.10	1.39	1.33
26	BB	886	A	C6-N6	6.10	1.38	1.33
26	BB	2288	A	N9-C4	6.10	1.41	1.37
26	BB	2453	A	N1-C2	-6.10	1.28	1.34
26	BB	2579	C	C5-C6	6.10	1.39	1.34
26	BB	2762	C	N1-C6	-6.10	1.33	1.37
1	AA	292	G	O3'-P	6.10	1.68	1.61
26	BB	1189	A	N1-C2	6.10	1.39	1.34
26	BB	2866	U	C5-C6	6.10	1.39	1.34
1	AA	1515	G	C2-N3	6.09	1.37	1.32
4	AD	74	A	O4'-C1'	6.09	1.49	1.41
26	BB	110	G	N7-C5	6.09	1.43	1.39
26	BB	655	A	N7-C5	-6.09	1.35	1.39
26	BB	2307	G	C8-N7	-6.09	1.27	1.30
26	BB	2312	U	N1-C2	6.09	1.44	1.38
1	AA	616	G	C2-N3	6.09	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	633	G	C6-N1	-6.09	1.35	1.39
26	BB	759	G	O3'-P	-6.09	1.53	1.61
26	BB	2193	G	C4'-C3'	-6.09	1.46	1.53
1	AA	672	U	C2'-O2'	6.09	1.49	1.41
1	AA	1385	G	N1-C2	6.09	1.42	1.37
4	AD	13	C	C5'-C4'	6.09	1.58	1.51
26	BB	297	G	C5'-C4'	6.09	1.58	1.51
26	BB	910	A	N3-C4	6.09	1.38	1.34
26	BB	2355	G	N7-C5	-6.09	1.35	1.39
26	BB	2466	C	P-O5'	-6.09	1.53	1.59
26	BB	2543	G	C4'-O4'	-6.09	1.37	1.45
1	AA	13	U	P-O5'	6.09	1.65	1.59
1	AA	227	G	O3'-P	-6.09	1.53	1.61
1	AA	1182	G	C2'-C1'	-6.09	1.46	1.53
1	AA	1273	C	C2-N3	6.09	1.40	1.35
1	AA	1534	A	C6-N1	6.09	1.39	1.35
26	BB	209	C	C4-C5	6.09	1.47	1.43
26	BB	2010	G	C5-C6	6.09	1.48	1.42
26	BB	2526	G	C6-N1	6.09	1.43	1.39
26	BB	2794	C	N1-C6	6.09	1.40	1.37
1	AA	474	G	C3'-C2'	6.09	1.59	1.52
25	BA	72	G	C5-C4	-6.09	1.34	1.38
26	BB	1833	C	C2-O2	-6.09	1.19	1.24
26	BB	2318	G	C4'-C3'	6.09	1.59	1.53
53	B2	59	ARG	CZ-NH2	6.09	1.41	1.33
1	AA	391	G	C4'-O4'	-6.09	1.37	1.45
26	BB	1292	G	C6-N1	6.09	1.43	1.39
26	BB	1372	U	O4'-C1'	6.09	1.49	1.41
26	BB	2694	G	C8-N7	-6.09	1.27	1.30
26	BB	2814	A	O3'-P	6.09	1.68	1.61
26	BB	2838	G	P-O5'	6.09	1.65	1.59
1	AA	136	C	C4'-O4'	-6.08	1.37	1.45
43	BS	24	TYR	CE2-CZ	6.08	1.46	1.38
1	AA	472	U	C4-O4	-6.08	1.18	1.23
1	AA	1393	U	P-O5'	6.08	1.65	1.59
25	BA	6	G	N9-C8	-6.08	1.33	1.37
26	BB	1263	U	N3-C4	6.08	1.44	1.38
26	BB	2388	A	C4'-O4'	-6.08	1.37	1.45
1	AA	16	A	P-O5'	6.08	1.65	1.59
1	AA	48	C	N1-C6	6.08	1.40	1.37
1	AA	829	G	N9-C8	6.08	1.42	1.37
4	AD	52	C	C2-N3	6.08	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	221	A	C2'-C1'	6.08	1.60	1.53
26	BB	440	C	C5-C6	6.08	1.39	1.34
26	BB	760	G	C4'-O4'	-6.08	1.37	1.45
26	BB	828	U	C4-O4	-6.08	1.18	1.23
26	BB	893	C	N1-C2	-6.08	1.34	1.40
26	BB	1003	G	N1-C2	6.08	1.42	1.37
26	BB	2532	G	C4'-C3'	6.08	1.59	1.53
26	BB	2770	G	N3-C4	6.08	1.39	1.35
26	BB	2778	A	C2-N3	-6.08	1.28	1.33
1	AA	332	G	C2-N3	6.08	1.37	1.32
26	BB	2739	U	C5'-C4'	6.08	1.58	1.51
1	AA	1074	G	N7-C5	-6.08	1.35	1.39
2	AB	75	C	P-O5'	6.08	1.65	1.59
26	BB	964	C	C5'-C4'	6.08	1.58	1.51
26	BB	1740	G	C8-N7	6.08	1.34	1.30
26	BB	2209	G	C2-N3	6.08	1.37	1.32
26	BB	2220	U	C4'-C3'	6.08	1.59	1.53
26	BB	2410	G	C5-C4	-6.08	1.34	1.38
26	BB	2572	A	P-O5'	6.08	1.65	1.59
1	AA	385	C	C2-O2	-6.08	1.19	1.24
26	BB	613	A	N9-C8	-6.08	1.32	1.37
26	BB	55	G	N7-C5	6.08	1.42	1.39
26	BB	1321	A	N7-C5	6.08	1.42	1.39
26	BB	2106	U	C2-N3	-6.08	1.33	1.37
26	BB	2228	G	C5-C4	-6.08	1.34	1.38
1	AA	21	G	N3-C4	6.07	1.39	1.35
1	AA	1026	G	C5-C6	6.07	1.48	1.42
25	BA	14	U	P-O5'	-6.07	1.53	1.59
25	BA	97	C	O3'-P	6.07	1.68	1.61
26	BB	206	U	N1-C2	6.07	1.44	1.38
26	BB	258	G	N3-C4	6.07	1.39	1.35
26	BB	1370	C	C4-C5	6.07	1.47	1.43
26	BB	1898	U	P-O5'	6.07	1.65	1.59
26	BB	2135	A	N3-C4	6.07	1.38	1.34
1	AA	1118	U	C4-O4	-6.07	1.18	1.23
6	AF	167	TYR	CG-CD1	6.07	1.47	1.39
26	BB	227	A	C2'-O2'	6.07	1.49	1.41
26	BB	251	A	N7-C5	6.07	1.42	1.39
26	BB	1559	U	C4-O4	-6.07	1.18	1.23
26	BB	1966	A	O3'-P	6.07	1.68	1.61
1	AA	246	A	N7-C5	6.07	1.42	1.39
1	AA	588	G	C3'-C2'	-6.07	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1195	G	C8-N7	-6.07	1.27	1.30
26	BB	2061	G	O3'-P	6.07	1.68	1.61
26	BB	2216	G	N9-C4	6.07	1.42	1.38
26	BB	2791	G	C6-N1	-6.07	1.35	1.39
26	BB	1416	G	C5'-C4'	6.07	1.58	1.51
26	BB	1882	U	P-O5'	6.07	1.65	1.59
26	BB	1993	U	C4'-O4'	-6.07	1.37	1.45
26	BB	2385	C	C2-N3	6.07	1.40	1.35
26	BB	2452	C	C2-N3	6.07	1.40	1.35
1	AA	62	U	C4-C5	6.07	1.49	1.43
1	AA	646	G	N3-C4	6.07	1.39	1.35
1	AA	1198	G	C6-N1	-6.07	1.35	1.39
26	BB	113	U	C5'-C4'	6.07	1.58	1.51
26	BB	655	A	N3-C4	6.07	1.38	1.34
26	BB	2001	C	N1-C6	6.07	1.40	1.37
26	BB	2438	U	N1-C6	-6.07	1.32	1.38
1	AA	152	A	P-O5'	6.07	1.65	1.59
1	AA	344	A	C6-N6	6.07	1.38	1.33
7	AG	68	GLU	CD-OE1	6.07	1.32	1.25
25	BA	109	A	C5-C4	-6.07	1.34	1.38
25	BA	112	G	N3-C4	6.07	1.39	1.35
26	BB	388	G	C4'-O4'	6.07	1.53	1.45
26	BB	421	C	C4-C5	6.07	1.47	1.43
26	BB	1345	C	N1-C2	6.07	1.46	1.40
26	BB	1662	U	P-O5'	6.07	1.65	1.59
26	BB	2270	A	N9-C8	-6.07	1.32	1.37
26	BB	2761	A	N9-C4	6.07	1.41	1.37
1	AA	843	U	C2'-O2'	6.06	1.49	1.41
1	AA	1502	A	N9-C4	6.06	1.41	1.37
21	AU	69	TYR	CB-CG	6.06	1.60	1.51
1	AA	70	U	C4-O4	6.06	1.28	1.23
1	AA	386	C	O5'-C5'	-6.06	1.33	1.42
1	AA	980	C	C5-C6	6.06	1.39	1.34
1	AA	1369	C	C4'-O4'	-6.06	1.37	1.45
22	AV	45	GLY	CA-C	6.06	1.61	1.51
26	BB	808	G	N7-C5	6.06	1.42	1.39
26	BB	990	A	C6-N1	6.06	1.39	1.35
26	BB	2601	C	N1-C2	6.06	1.46	1.40
26	BB	2858	C	C4-C5	6.06	1.47	1.43
1	AA	99	C	C2'-C1'	6.06	1.60	1.53
26	BB	597	G	C2'-C1'	-6.06	1.46	1.53
26	BB	1755	A	C2'-C1'	-6.06	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	369	G	N1-C2	6.06	1.42	1.37
1	AA	973	G	C2-N3	6.06	1.37	1.32
1	AA	1094	G	C6-O6	-6.06	1.18	1.24
4	AD	67	C	C2-O2	-6.06	1.19	1.24
26	BB	1473	G	P-O5'	6.06	1.65	1.59
26	BB	1767	G	C6-O6	-6.06	1.18	1.24
1	AA	1241	G	N7-C5	-6.06	1.35	1.39
1	AA	1378	C	C4'-C3'	6.06	1.59	1.53
25	BA	67	G	C2'-O2'	6.06	1.49	1.41
26	BB	477	A	C5-C6	6.06	1.46	1.41
26	BB	840	C	N3-C4	6.06	1.38	1.33
1	AA	401	C	O4'-C1'	6.06	1.49	1.41
2	AB	36	A	C5-C4	6.06	1.43	1.38
7	AG	164	ARG	CD-NE	6.06	1.56	1.46
26	BB	143	C	N3-C4	6.06	1.38	1.33
26	BB	328	U	C4-O4	6.06	1.28	1.23
1	AA	915	A	N9-C8	-6.05	1.32	1.37
1	AA	915	A	P-O5'	6.05	1.65	1.59
1	AA	1193	G	C8-N7	-6.05	1.27	1.30
2	AB	76	A	C4'-O4'	-6.05	1.37	1.45
26	BB	136	G	C2-N3	6.05	1.37	1.32
26	BB	1413	A	C2'-C1'	-6.05	1.46	1.53
26	BB	1653	G	C2-N3	6.05	1.37	1.32
26	BB	2558	C	C4'-O4'	-6.05	1.37	1.45
1	AA	560	A	C4'-C3'	6.05	1.59	1.53
26	BB	347	A	O3'-P	6.05	1.68	1.61
26	BB	1657	U	C5'-C4'	6.05	1.58	1.51
26	BB	1834	U	C4'-O4'	-6.05	1.37	1.45
26	BB	1852	U	C4-C5	6.05	1.49	1.43
1	AA	134	G	N9-C8	-6.05	1.33	1.37
1	AA	213	G	N7-C5	6.05	1.42	1.39
1	AA	430	A	C6-N6	6.05	1.38	1.33
1	AA	436	C	N1-C6	-6.05	1.33	1.37
1	AA	668	G	C5-C4	6.05	1.42	1.38
1	AA	765	G	N3-C4	6.05	1.39	1.35
1	AA	1251	A	O3'-P	6.05	1.68	1.61
1	AA	1305	G	C6-O6	6.05	1.29	1.24
1	AA	1462	C	N3-C4	6.05	1.38	1.33
4	AD	65	G	C8-N7	-6.05	1.27	1.30
26	BB	207	A	N3-C4	-6.05	1.31	1.34
26	BB	455	C	P-O5'	6.05	1.65	1.59
26	BB	572	A	O3'-P	6.05	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	630	G	P-O5'	6.05	1.65	1.59
26	BB	1937	A	P-O5'	6.05	1.65	1.59
26	BB	2657	A	C6-N1	-6.05	1.31	1.35
1	AA	224	U	C4-C5	6.05	1.49	1.43
1	AA	868	C	C2-O2	-6.05	1.19	1.24
1	AA	1226	C	N3-C4	6.05	1.38	1.33
25	BA	8	C	C5'-C4'	6.05	1.58	1.51
26	BB	1553	A	C5'-C4'	6.05	1.58	1.51
26	BB	2116	G	C2-N3	6.05	1.37	1.32
26	BB	2214	C	P-O5'	6.05	1.65	1.59
1	AA	458	U	C4'-O4'	-6.05	1.37	1.45
1	AA	751	U	N3-C4	6.05	1.43	1.38
26	BB	972	A	C2-N3	6.05	1.39	1.33
26	BB	2577	A	O3'-P	-6.05	1.53	1.61
1	AA	198	G	O3'-P	6.05	1.68	1.61
1	AA	467	U	N3-C4	6.05	1.43	1.38
26	BB	332	A	C5-C4	-6.05	1.34	1.38
26	BB	536	G	O3'-P	6.05	1.68	1.61
26	BB	682	G	C5-C4	-6.05	1.34	1.38
26	BB	1141	U	P-O5'	6.05	1.65	1.59
1	AA	851	G	N9-C8	6.04	1.42	1.37
2	AB	59	G	C4'-C3'	6.04	1.59	1.53
26	BB	145	C	N3-C4	6.04	1.38	1.33
26	BB	369	U	N1-C6	-6.04	1.32	1.38
26	BB	567	U	C5'-C4'	6.04	1.58	1.51
26	BB	1011	G	C8-N7	-6.04	1.27	1.30
26	BB	2479	U	C5'-C4'	6.04	1.58	1.51
26	BB	2807	U	C5-C6	6.04	1.39	1.34
1	AA	558	G	O3'-P	6.04	1.68	1.61
1	AA	1061	G	C3'-C2'	6.04	1.59	1.52
1	AA	1126	U	C1'-N1	6.04	1.57	1.48
1	AA	1200	C	C4-C5	-6.04	1.38	1.43
2	AB	58	A	C2'-C1'	6.04	1.59	1.53
26	BB	59	U	C5'-C4'	6.04	1.58	1.51
26	BB	155	A	N7-C5	-6.04	1.35	1.39
26	BB	378	C	O3'-P	6.04	1.68	1.61
26	BB	978	G	C5-C6	6.04	1.48	1.42
26	BB	1181	U	N1-C6	6.04	1.43	1.38
26	BB	1646	C	O4'-C1'	6.04	1.49	1.41
1	AA	62	U	C1'-N1	6.04	1.57	1.48
1	AA	575	G	N9-C4	6.04	1.42	1.38
1	AA	600	A	C8-N7	-6.04	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	987	G	N9-C8	6.04	1.42	1.37
1	AA	1383	C	P-O5'	6.04	1.65	1.59
1	AA	1443	C	C4'-C3'	-6.04	1.46	1.53
26	BB	94	A	C6-N1	-6.04	1.31	1.35
26	BB	121	G	C8-N7	6.04	1.34	1.30
26	BB	625	G	N7-C5	6.04	1.42	1.39
26	BB	983	A	P-O5'	6.04	1.65	1.59
26	BB	1047	G	C4'-C3'	6.04	1.59	1.53
26	BB	1057	A	C5'-C4'	6.04	1.58	1.51
26	BB	1449	G	C5-C4	6.04	1.42	1.38
26	BB	1526	C	C4'-O4'	-6.04	1.37	1.45
26	BB	1648	U	C4-O4	-6.04	1.18	1.23
26	BB	1892	C	C4-N4	-6.04	1.28	1.33
26	BB	1926	U	C2-N3	6.04	1.42	1.37
26	BB	2349	G	C5-C6	-6.04	1.36	1.42
26	BB	2469	A	N9-C8	6.04	1.42	1.37
26	BB	2560	A	C2-N3	-6.04	1.28	1.33
25	BA	84	G	N3-C4	6.04	1.39	1.35
26	BB	2553	G	O3'-P	6.04	1.68	1.61
1	AA	441	A	C5'-C4'	6.04	1.58	1.51
1	AA	452	A	C6-N1	6.04	1.39	1.35
1	AA	482	A	P-O5'	-6.04	1.53	1.59
1	AA	523	A	C2'-O2'	6.04	1.49	1.41
1	AA	1487	G	N9-C4	6.04	1.42	1.38
1	AA	1529	G	C6-N1	-6.04	1.35	1.39
25	BA	17	C	O3'-P	-6.04	1.53	1.61
26	BB	101	A	P-O5'	6.04	1.65	1.59
26	BB	1232	G	N9-C8	6.04	1.42	1.37
26	BB	2310	C	C4-N4	-6.04	1.28	1.33
26	BB	2480	C	C2-N3	6.04	1.40	1.35
1	AA	278	G	N1-C2	6.04	1.42	1.37
1	AA	1262	C	P-O5'	6.04	1.65	1.59
1	AA	1361	G	O3'-P	6.04	1.68	1.61
3	AC	37	G	C5-C4	-6.04	1.34	1.38
3	AC	44	U	C4'-O4'	-6.04	1.37	1.45
26	BB	1573	G	C5-C6	6.04	1.48	1.42
1	AA	506	G	N3-C4	6.04	1.39	1.35
1	AA	1458	G	C5'-C4'	6.04	1.58	1.51
4	AD	77	A	C2-N3	-6.04	1.28	1.33
25	BA	10	G	C2-N3	6.04	1.37	1.32
26	BB	1024	G	N9-C4	6.04	1.42	1.38
26	BB	1925	C	C5-C6	6.04	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1963	U	C5-C6	6.04	1.39	1.34
26	BB	2782	G	O3'-P	6.04	1.68	1.61
26	BB	2854	G	N7-C5	6.04	1.42	1.39
1	AA	10	A	C4'-O4'	-6.03	1.37	1.45
1	AA	293	G	C6-O6	6.03	1.29	1.24
1	AA	397	A	N9-C4	6.03	1.41	1.37
4	AD	31	G	N1-C2	6.03	1.42	1.37
25	BA	59	A	C6-N1	-6.03	1.31	1.35
26	BB	411	G	C6-N1	6.03	1.43	1.39
26	BB	1763	G	N3-C4	6.03	1.39	1.35
26	BB	2416	C	C4-C5	6.03	1.47	1.43
26	BB	2768	U	C5'-C4'	6.03	1.58	1.51
1	AA	1225	A	P-O5'	-6.03	1.53	1.59
26	BB	1701	A	O3'-P	6.03	1.68	1.61
26	BB	2332	C	C2-N3	6.03	1.40	1.35
26	BB	2355	G	C3'-C2'	6.03	1.59	1.52
26	BB	2737	G	C5-C6	6.03	1.48	1.42
1	AA	416	G	P-O5'	6.03	1.65	1.59
1	AA	924	C	C4-C5	6.03	1.47	1.43
26	BB	190	A	C1'-N9	6.03	1.57	1.48
26	BB	775	G	C6-N1	6.03	1.43	1.39
26	BB	913	U	P-O5'	6.03	1.65	1.59
26	BB	990	A	N3-C4	6.03	1.38	1.34
26	BB	1570	A	C2-N3	6.03	1.39	1.33
26	BB	2832	U	C2-N3	6.03	1.42	1.37
29	BE	77	ARG	NE-CZ	6.03	1.40	1.33
1	AA	230	G	N1-C2	6.03	1.42	1.37
2	AB	1	A	C6-N1	-6.03	1.31	1.35
26	BB	155	A	O4'-C1'	6.03	1.49	1.41
1	AA	12	U	C2-O2	6.03	1.27	1.22
1	AA	736	C	C4'-O4'	-6.03	1.37	1.45
1	AA	908	A	N9-C4	6.03	1.41	1.37
25	BA	16	G	P-O5'	6.03	1.65	1.59
26	BB	144	A	C3'-C2'	6.03	1.59	1.52
26	BB	1230	A	N9-C4	-6.03	1.34	1.37
26	BB	1380	G	N3-C4	6.03	1.39	1.35
26	BB	1866	A	N3-C4	6.03	1.38	1.34
26	BB	1933	G	N7-C5	6.03	1.42	1.39
26	BB	2279	G	C2-N2	-6.03	1.28	1.34
37	BM	109	SER	CA-CB	6.03	1.61	1.52
1	AA	239	U	P-O5'	6.03	1.65	1.59
1	AA	890	G	N9-C8	6.03	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	63	A	C3'-C2'	-6.03	1.46	1.52
26	BB	151	C	C5'-C4'	6.03	1.58	1.51
26	BB	1292	G	O4'-C1'	6.03	1.49	1.41
26	BB	1384	A	C8-N7	6.03	1.35	1.31
26	BB	2015	A	N9-C8	6.03	1.42	1.37
26	BB	2620	C	C4-C5	6.03	1.47	1.43
26	BB	1524	G	C5'-C4'	6.02	1.58	1.51
26	BB	1686	C	N1-C2	6.02	1.46	1.40
26	BB	1713	A	C8-N7	-6.02	1.27	1.31
1	AA	141	G	C4'-O4'	-6.02	1.37	1.45
1	AA	504	C	C4-C5	6.02	1.47	1.43
1	AA	1503	A	C6-N1	-6.02	1.31	1.35
1	AA	1505	G	O3'-P	6.02	1.68	1.61
26	BB	370	G	C3'-C2'	6.02	1.59	1.52
26	BB	1135	C	C5-C6	6.02	1.39	1.34
26	BB	2194	U	C3'-C2'	-6.02	1.46	1.52
26	BB	2374	C	C5-C6	6.02	1.39	1.34
26	BB	2809	A	N1-C2	-6.02	1.28	1.34
26	BB	2898	U	C5-C6	6.02	1.39	1.34
1	AA	299	G	P-O5'	6.02	1.65	1.59
3	AC	19	A	C5-C4	6.02	1.43	1.38
15	AO	94	TYR	CE2-CZ	6.02	1.46	1.38
26	BB	1710	G	P-O5'	6.02	1.65	1.59
26	BB	1943	U	C4'-O4'	-6.02	1.37	1.45
26	BB	2357	G	C5-C4	-6.02	1.34	1.38
1	AA	1120	C	C4'-O4'	-6.02	1.37	1.45
1	AA	1228	C	C4-C5	6.02	1.47	1.43
2	AB	11	U	C5-C6	6.02	1.39	1.34
2	AB	60	U	P-O5'	6.02	1.65	1.59
26	BB	534	U	C2-N3	-6.02	1.33	1.37
26	BB	564	C	C2-O2	-6.02	1.19	1.24
26	BB	742	A	O3'-P	-6.02	1.53	1.61
26	BB	1171	G	O3'-P	6.02	1.68	1.61
26	BB	1235	G	P-O5'	6.02	1.65	1.59
26	BB	1487	U	C4-O4	6.02	1.28	1.23
26	BB	1532	A	N1-C2	-6.02	1.28	1.34
26	BB	1664	A	P-O5'	6.02	1.65	1.59
26	BB	1699	G	N9-C4	6.02	1.42	1.38
26	BB	2349	G	C4'-O4'	-6.02	1.37	1.45
26	BB	2389	G	C3'-C2'	6.02	1.59	1.52
1	AA	358	U	O3'-P	6.02	1.68	1.61
26	BB	43	G	C2-N3	6.02	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	220	G	C5'-C4'	6.02	1.58	1.51
26	BB	332	A	N3-C4	6.02	1.38	1.34
26	BB	762	U	N1-C6	6.02	1.43	1.38
26	BB	2736	A	C4'-O4'	-6.02	1.37	1.45
1	AA	74	A	C6-N1	6.01	1.39	1.35
1	AA	276	G	N9-C4	6.01	1.42	1.38
1	AA	851	G	C6-N1	-6.01	1.35	1.39
1	AA	999	C	N1-C6	6.01	1.40	1.37
1	AA	1101	A	N1-C2	-6.01	1.28	1.34
2	AB	1	A	C6-N6	6.01	1.38	1.33
14	AN	43	TRP	CD2-CE2	6.01	1.48	1.41
26	BB	97	C	C5'-C4'	6.01	1.58	1.51
26	BB	2415	G	N7-C5	-6.01	1.35	1.39
26	BB	174	U	C4'-O4'	-6.01	1.37	1.45
26	BB	1149	G	N3-C4	6.01	1.39	1.35
26	BB	2323	G	C2'-O2'	-6.01	1.33	1.41
1	AA	335	C	N1-C6	6.01	1.40	1.37
1	AA	378	G	C4'-O4'	-6.01	1.37	1.45
1	AA	1521	C	C5-C6	6.01	1.39	1.34
26	BB	416	U	N1-C6	6.01	1.43	1.38
26	BB	585	G	C4'-C3'	6.01	1.59	1.53
26	BB	2701	U	N3-C4	6.01	1.43	1.38
1	AA	71	A	N1-C2	-6.01	1.28	1.34
1	AA	1522	U	C4-C5	6.01	1.49	1.43
25	BA	11	C	C4-N4	6.01	1.39	1.33
25	BA	28	C	N1-C2	6.01	1.46	1.40
25	BA	38	C	N3-C4	-6.01	1.29	1.33
26	BB	415	A	N9-C4	6.01	1.41	1.37
1	AA	655	A	C6-N1	-6.01	1.31	1.35
26	BB	556	A	N3-C4	6.01	1.38	1.34
26	BB	2542	A	C2'-C1'	-6.01	1.46	1.53
26	BB	2569	G	N3-C4	6.01	1.39	1.35
1	AA	61	G	C5'-C4'	6.01	1.58	1.51
1	AA	1197	A	C8-N7	-6.01	1.27	1.31
26	BB	431	U	C2'-C1'	-6.01	1.46	1.53
26	BB	559	G	C5-C4	6.01	1.42	1.38
26	BB	861	A	C4'-O4'	-6.01	1.37	1.45
26	BB	910	A	N7-C5	-6.01	1.35	1.39
26	BB	1772	A	O4'-C1'	6.01	1.49	1.41
1	AA	1016	A	C2'-O2'	6.00	1.49	1.41
26	BB	1192	G	C4'-O4'	-6.00	1.37	1.45
26	BB	2502	G	C2'-O2'	6.00	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	257	G	C4'-O4'	-6.00	1.37	1.45
1	AA	495	A	C5'-C4'	6.00	1.58	1.51
1	AA	1528	U	O3'-P	6.00	1.68	1.61
3	AC	30	U	P-O5'	6.00	1.65	1.59
26	BB	581	C	C2-O2	-6.00	1.19	1.24
26	BB	637	A	C5-C4	-6.00	1.34	1.38
26	BB	1400	U	C3'-O3'	6.00	1.50	1.42
26	BB	1963	U	N1-C2	6.00	1.44	1.38
26	BB	2419	U	N3-C4	6.00	1.43	1.38
26	BB	2810	A	P-O5'	6.00	1.65	1.59
1	AA	1310	G	C2-N2	-6.00	1.28	1.34
26	BB	386	G	C4'-O4'	-6.00	1.37	1.45
26	BB	734	A	C5'-C4'	6.00	1.58	1.51
26	BB	1009	A	C3'-C2'	-6.00	1.46	1.52
26	BB	1066	U	N3-C4	6.00	1.43	1.38
26	BB	1204	A	C6-N1	6.00	1.39	1.35
26	BB	1632	A	C6-N1	-6.00	1.31	1.35
26	BB	1788	C	C2'-C1'	-6.00	1.46	1.53
26	BB	2011	U	C4'-O4'	6.00	1.53	1.45
26	BB	2436	G	C4'-O4'	-6.00	1.37	1.45
26	BB	471	A	O3'-P	6.00	1.68	1.61
26	BB	751	A	C3'-C2'	-6.00	1.46	1.52
26	BB	2040	G	C5'-C4'	6.00	1.58	1.51
26	BB	2146	C	N1-C2	6.00	1.46	1.40
1	AA	333	U	C4-C5	6.00	1.49	1.43
1	AA	1036	A	C4'-O4'	-6.00	1.37	1.45
26	BB	711	G	C2'-O2'	-6.00	1.33	1.41
26	BB	1248	G	C8-N7	-6.00	1.27	1.30
26	BB	1384	A	N7-C5	-6.00	1.35	1.39
26	BB	2173	A	C4'-O4'	-6.00	1.37	1.45
26	BB	2484	G	N9-C8	-6.00	1.33	1.37
26	BB	2612	C	C4'-O4'	-6.00	1.37	1.45
1	AA	280	C	N3-C4	-6.00	1.29	1.33
1	AA	852	G	O3'-P	6.00	1.68	1.61
1	AA	1075	U	C2-O2	6.00	1.27	1.22
1	AA	1137	C	O3'-P	6.00	1.68	1.61
1	AA	1168	U	P-O5'	6.00	1.65	1.59
1	AA	1447	A	O5'-C5'	-6.00	1.33	1.42
26	BB	83	A	N1-C2	-6.00	1.28	1.34
26	BB	238	C	C4'-O4'	-6.00	1.37	1.45
26	BB	771	G	P-O5'	6.00	1.65	1.59
26	BB	904	G	N9-C4	-6.00	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1181	U	N1-C2	6.00	1.44	1.38
26	BB	1225	G	O3'-P	-6.00	1.53	1.61
26	BB	1711	A	O4'-C1'	6.00	1.49	1.41
26	BB	1753	G	C4'-O4'	-6.00	1.37	1.45
26	BB	2195	U	C2-N3	6.00	1.42	1.37
1	AA	925	G	P-O5'	6.00	1.65	1.59
9	AI	44	ARG	NE-CZ	6.00	1.40	1.33
26	BB	1731	G	C5'-C4'	6.00	1.58	1.51
26	BB	2113	U	N1-C2	6.00	1.44	1.38
1	AA	275	G	C4'-O4'	-5.99	1.37	1.45
1	AA	1014	A	P-O5'	5.99	1.65	1.59
1	AA	1223	C	O3'-P	5.99	1.68	1.61
1	AA	1514	G	N9-C4	5.99	1.42	1.38
25	BA	46	A	N7-C5	-5.99	1.35	1.39
26	BB	450	G	C6-O6	-5.99	1.18	1.24
26	BB	1393	A	C5-C6	5.99	1.46	1.41
26	BB	1483	G	C2-N2	-5.99	1.28	1.34
26	BB	1608	A	N9-C8	5.99	1.42	1.37
26	BB	2036	C	C2-N3	5.99	1.40	1.35
26	BB	2589	A	N7-C5	5.99	1.42	1.39
26	BB	1451	C	P-O5'	5.99	1.65	1.59
26	BB	2303	G	N9-C4	-5.99	1.33	1.38
26	BB	2729	G	C2-N3	5.99	1.37	1.32
1	AA	540	G	C8-N7	5.99	1.34	1.30
1	AA	664	G	N9-C8	-5.99	1.33	1.37
1	AA	842	U	C2-N3	5.99	1.42	1.37
4	AD	60	A	N9-C8	5.99	1.42	1.37
26	BB	854	C	N1-C6	5.99	1.40	1.37
26	BB	1059	G	C4'-O4'	-5.99	1.37	1.45
26	BB	1258	U	N1-C2	5.99	1.44	1.38
26	BB	1516	G	N7-C5	5.99	1.42	1.39
26	BB	2454	G	N7-C5	5.99	1.42	1.39
1	AA	413	G	N7-C5	5.99	1.42	1.39
1	AA	932	C	N3-C4	-5.99	1.29	1.33
1	AA	1005	A	P-O5'	5.99	1.65	1.59
1	AA	1115	U	C4'-O4'	-5.99	1.37	1.45
1	AA	1305	G	C5-C6	5.99	1.48	1.42
1	AA	1325	C	C2-N3	5.99	1.40	1.35
1	AA	1423	G	P-O5'	5.99	1.65	1.59
2	AB	40	C	C5-C6	-5.99	1.29	1.34
26	BB	226	A	C5-C6	-5.99	1.35	1.41
26	BB	2010	G	N1-C2	-5.99	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2224	G	N7-C5	-5.99	1.35	1.39
26	BB	2230	G	C2-N2	5.99	1.40	1.34
1	AA	487	A	N7-C5	-5.99	1.35	1.39
26	BB	1041	G	C2-N2	-5.99	1.28	1.34
1	AA	245	U	C4-O4	-5.99	1.18	1.23
1	AA	302	G	C2-N2	5.99	1.40	1.34
1	AA	356	A	P-O5'	5.99	1.65	1.59
1	AA	436	C	N3-C4	5.99	1.38	1.33
1	AA	444	G	N9-C8	-5.99	1.33	1.37
1	AA	681	A	C4'-O4'	-5.99	1.37	1.45
1	AA	997	U	N3-C4	5.99	1.43	1.38
1	AA	1251	A	N9-C4	5.99	1.41	1.37
1	AA	1413	A	N7-C5	5.99	1.42	1.39
2	AB	63	C	C4'-O4'	-5.99	1.37	1.45
25	BA	18	G	C4'-O4'	-5.99	1.37	1.45
26	BB	718	A	P-O5'	5.99	1.65	1.59
26	BB	1116	G	C2-N3	5.99	1.37	1.32
26	BB	2808	G	N1-C2	5.99	1.42	1.37
26	BB	2878	U	C4'-O4'	-5.99	1.37	1.45
1	AA	273	U	C5'-C4'	5.98	1.58	1.51
1	AA	807	A	C5'-C4'	5.98	1.58	1.51
1	AA	1379	G	N3-C4	5.98	1.39	1.35
4	AD	64	G	N1-C2	5.98	1.42	1.37
26	BB	645	C	N3-C4	5.98	1.38	1.33
1	AA	149	A	N9-C8	-5.98	1.32	1.37
1	AA	923	A	C5-C4	5.98	1.43	1.38
2	AB	33	U	N1-C2	5.98	1.44	1.38
24	AX	70	TYR	CE2-CZ	5.98	1.46	1.38
25	BA	72	G	P-O5'	5.98	1.65	1.59
26	BB	673	C	C2-N3	5.98	1.40	1.35
26	BB	1803	A	N3-C4	5.98	1.38	1.34
26	BB	2096	C	C1'-N1	5.98	1.57	1.48
26	BB	2108	A	C5-C6	5.98	1.46	1.41
1	AA	616	G	C2-N2	-5.98	1.28	1.34
1	AA	812	G	C8-N7	5.98	1.34	1.30
26	BB	1826	G	C1'-N9	5.98	1.57	1.48
26	BB	1861	G	N3-C4	5.98	1.39	1.35
26	BB	2004	G	C6-O6	-5.98	1.18	1.24
26	BB	2090	A	N9-C4	5.98	1.41	1.37
26	BB	2544	G	N1-C2	5.98	1.42	1.37
26	BB	2826	A	N7-C5	5.98	1.42	1.39
25	BA	1	U	C5-C6	5.98	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	712	G	C6-N1	5.98	1.43	1.39
26	BB	950	G	C4'-O4'	-5.98	1.37	1.45
26	BB	1157	G	C5-C4	5.98	1.42	1.38
1	AA	1039	G	C2'-O2'	-5.98	1.33	1.41
5	AE	207	ARG	CZ-NH2	5.98	1.40	1.33
25	BA	65	U	C2-N3	5.98	1.42	1.37
26	BB	45	G	C2-N3	5.98	1.37	1.32
26	BB	408	G	C5-C6	5.98	1.48	1.42
26	BB	625	G	N9-C8	-5.98	1.33	1.37
26	BB	658	U	C4'-O4'	-5.98	1.37	1.45
26	BB	757	G	C5-C4	-5.98	1.34	1.38
26	BB	1082	U	C4'-O4'	-5.98	1.37	1.45
26	BB	1581	G	C2-N3	5.98	1.37	1.32
26	BB	1998	A	N7-C5	-5.98	1.35	1.39
26	BB	2286	G	P-O5'	5.98	1.65	1.59
26	BB	2317	A	C4'-C3'	5.98	1.59	1.53
26	BB	2468	A	N9-C4	-5.98	1.34	1.37
26	BB	2674	G	C6-O6	-5.98	1.18	1.24
26	BB	2889	C	N1-C6	5.98	1.40	1.37
1	AA	954	G	N7-C5	5.98	1.42	1.39
26	BB	1125	G	C5'-C4'	5.98	1.58	1.51
1	AA	44	A	C4'-C3'	-5.97	1.46	1.52
1	AA	771	G	O4'-C1'	5.97	1.49	1.41
1	AA	1395	C	O3'-P	-5.97	1.53	1.61
7	AG	25	ARG	CZ-NH2	5.97	1.40	1.33
26	BB	112	U	C4'-O4'	-5.97	1.37	1.45
26	BB	233	A	N9-C8	5.97	1.42	1.37
26	BB	2534	A	C5-C6	5.97	1.46	1.41
26	BB	2586	U	P-O5'	5.97	1.65	1.59
1	AA	1349	A	C5-C6	5.97	1.46	1.41
26	BB	234	U	C4'-O4'	-5.97	1.37	1.45
26	BB	1162	G	C3'-C2'	5.97	1.59	1.52
26	BB	1377	G	C5-C6	5.97	1.48	1.42
26	BB	2415	G	C5'-C4'	5.97	1.58	1.51
26	BB	2731	G	P-O5'	5.97	1.65	1.59
1	AA	526	C	C2-O2	5.97	1.29	1.24
1	AA	1319	A	C5-C4	5.97	1.43	1.38
1	AA	1450	U	P-O5'	5.97	1.65	1.59
2	AB	38	A	C2'-C1'	-5.97	1.46	1.53
26	BB	2017	U	C2-O2	5.97	1.27	1.22
26	BB	2310	C	C2-N3	5.97	1.40	1.35
1	AA	341	C	N3-C4	-5.97	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	445	G	C8-N7	5.97	1.34	1.30
1	AA	1284	C	C5-C6	5.97	1.39	1.34
6	AF	168	ARG	CZ-NH1	5.97	1.40	1.33
26	BB	1464	G	C3'-C2'	5.97	1.59	1.52
26	BB	1571	A	N9-C8	5.97	1.42	1.37
26	BB	2294	G	C8-N7	5.97	1.34	1.30
26	BB	2597	G	C5'-C4'	5.97	1.58	1.51
25	BA	48	U	C4-C5	5.97	1.49	1.43
26	BB	1073	A	C5-C6	5.97	1.46	1.41
26	BB	1169	A	P-O5'	5.97	1.65	1.59
26	BB	1858	A	C8-N7	-5.97	1.27	1.31
1	AA	39	G	C2-N3	5.97	1.37	1.32
1	AA	350	G	C5-C6	5.97	1.48	1.42
1	AA	1101	A	C6-N6	-5.97	1.29	1.33
2	AB	25	C	C4-C5	5.97	1.47	1.43
26	BB	636	G	N7-C5	-5.97	1.35	1.39
26	BB	716	A	N7-C5	5.97	1.42	1.39
26	BB	853	C	C4'-O4'	-5.97	1.37	1.45
26	BB	866	A	C6-N1	-5.97	1.31	1.35
26	BB	1017	G	N1-C2	5.97	1.42	1.37
26	BB	1115	G	N9-C4	5.97	1.42	1.38
26	BB	1314	C	N3-C4	-5.97	1.29	1.33
26	BB	1337	G	N9-C8	-5.97	1.33	1.37
26	BB	1365	A	N9-C8	-5.97	1.32	1.37
1	AA	468	A	C6-N1	-5.96	1.31	1.35
1	AA	925	G	O3'-P	5.96	1.68	1.61
3	AC	34	U	O4'-C1'	5.96	1.49	1.41
26	BB	974	G	C2'-O2'	5.96	1.49	1.41
26	BB	1524	G	C2-N3	5.96	1.37	1.32
26	BB	2102	G	C8-N7	-5.96	1.27	1.30
26	BB	2489	U	O4'-C1'	5.96	1.49	1.41
3	AC	58	C	N3-C4	-5.96	1.29	1.33
26	BB	51	G	C2'-O2'	-5.96	1.33	1.41
26	BB	118	A	C2'-C1'	5.96	1.59	1.53
1	AA	38	G	C3'-C2'	5.96	1.59	1.52
1	AA	961	U	O3'-P	5.96	1.68	1.61
25	BA	119	A	N7-C5	5.96	1.42	1.39
26	BB	238	C	N1-C6	5.96	1.40	1.37
26	BB	681	G	C4'-C3'	5.96	1.59	1.53
26	BB	2033	A	C8-N7	-5.96	1.27	1.31
26	BB	2078	C	C4'-O4'	-5.96	1.37	1.45
26	BB	2823	A	N3-C4	5.96	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	188	C	P-O5'	5.96	1.65	1.59
1	AA	684	U	C2-N3	5.96	1.42	1.37
10	AJ	110	ARG	NE-CZ	5.96	1.40	1.33
1	AA	1539	C	C3'-C2'	5.96	1.59	1.52
26	BB	679	C	C2-O2	-5.96	1.19	1.24
26	BB	1854	A	P-O5'	5.96	1.65	1.59
26	BB	2631	G	P-O5'	5.96	1.65	1.59
1	AA	615	G	P-O5'	5.96	1.65	1.59
1	AA	1007	U	C4-C5	5.96	1.49	1.43
1	AA	1192	C	N3-C4	-5.96	1.29	1.33
1	AA	1422	G	O3'-P	5.96	1.68	1.61
26	BB	5	A	N9-C4	-5.96	1.34	1.37
26	BB	431	U	C5'-C4'	5.96	1.58	1.51
26	BB	1148	U	C2'-O2'	5.96	1.49	1.41
26	BB	2745	C	P-O5'	5.96	1.65	1.59
1	AA	556	C	N3-C4	5.96	1.38	1.33
2	AB	34	C	C2-N3	-5.96	1.30	1.35
26	BB	916	G	C5'-C4'	5.96	1.58	1.51
26	BB	942	G	C2-N3	5.96	1.37	1.32
26	BB	1097	U	P-O5'	-5.96	1.53	1.59
26	BB	1701	A	C5-C6	5.96	1.46	1.41
26	BB	2292	U	N1-C2	5.96	1.44	1.38
1	AA	621	A	N3-C4	5.95	1.38	1.34
1	AA	679	C	C5'-C4'	5.95	1.58	1.51
1	AA	1108	G	N3-C4	-5.95	1.31	1.35
1	AA	1223	C	N1-C2	5.95	1.46	1.40
26	BB	729	G	C4'-C3'	-5.95	1.46	1.52
26	BB	836	G	C6-N1	5.95	1.43	1.39
26	BB	1329	U	N3-C4	5.95	1.43	1.38
26	BB	1773	A	C6-N1	-5.95	1.31	1.35
26	BB	2013	A	C5-C4	-5.95	1.34	1.38
26	BB	2294	G	N3-C4	-5.95	1.31	1.35
26	BB	1359	A	C4'-C3'	5.95	1.59	1.53
26	BB	2290	G	N3-C4	-5.95	1.31	1.35
46	BV	6	ARG	NE-CZ	5.95	1.40	1.33
1	AA	845	A	N3-C4	5.95	1.38	1.34
1	AA	881	G	C5'-C4'	5.95	1.58	1.51
26	BB	193	U	N3-C4	5.95	1.43	1.38
26	BB	1052	C	C4'-O4'	-5.95	1.37	1.45
26	BB	1502	A	N9-C4	5.95	1.41	1.37
26	BB	1847	A	N9-C4	5.95	1.41	1.37
26	BB	1910	G	N9-C8	-5.95	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	467	G	O4'-C1'	5.95	1.49	1.41
26	BB	1433	A	C3'-C2'	5.95	1.59	1.52
26	BB	1921	G	N1-C2	5.95	1.42	1.37
1	AA	40	C	O4'-C1'	5.95	1.49	1.41
1	AA	304	U	C4'-C3'	5.95	1.59	1.53
1	AA	314	C	C4'-O4'	-5.95	1.37	1.45
1	AA	1338	G	N9-C8	-5.95	1.33	1.37
1	AA	1386	G	C4'-C3'	-5.95	1.46	1.52
26	BB	220	G	C5-C4	5.95	1.42	1.38
26	BB	361	G	N7-C5	5.95	1.42	1.39
26	BB	1340	U	C5'-C4'	5.95	1.58	1.51
26	BB	1648	U	C5'-C4'	5.95	1.58	1.51
26	BB	2793	C	C5-C6	-5.95	1.29	1.34
1	AA	1270	G	C5'-C4'	5.94	1.58	1.51
26	BB	1532	A	N9-C4	-5.94	1.34	1.37
26	BB	2838	G	N9-C4	5.94	1.42	1.38
1	AA	331	G	C4'-O4'	-5.94	1.37	1.45
1	AA	1502	A	C5-C4	5.94	1.43	1.38
25	BA	45	A	N3-C4	5.94	1.38	1.34
25	BA	116	G	P-O5'	5.94	1.65	1.59
26	BB	578	G	P-O5'	5.94	1.65	1.59
26	BB	586	A	C3'-C2'	5.94	1.59	1.52
26	BB	1277	G	C2-N3	5.94	1.37	1.32
26	BB	1283	G	N1-C2	5.94	1.42	1.37
26	BB	1458	U	N1-C2	5.94	1.43	1.38
26	BB	2509	G	N1-C2	5.94	1.42	1.37
1	AA	69	G	C3'-C2'	5.94	1.59	1.52
1	AA	1330	U	N3-C4	5.94	1.43	1.38
26	BB	68	G	C5-C6	5.94	1.48	1.42
26	BB	84	A	P-O5'	5.94	1.65	1.59
26	BB	1020	A	P-O5'	5.94	1.65	1.59
26	BB	1809	A	C5-C6	5.94	1.46	1.41
26	BB	545	U	C4-C5	5.94	1.48	1.43
26	BB	1649	G	C5-C4	5.94	1.42	1.38
26	BB	1943	U	C5'-C4'	5.94	1.58	1.51
26	BB	2172	U	C2-N3	5.94	1.42	1.37
1	AA	435	A	P-O5'	5.94	1.65	1.59
1	AA	1282	C	O3'-P	5.94	1.68	1.61
26	BB	389	G	C5-C4	5.94	1.42	1.38
26	BB	785	G	C6-N1	-5.94	1.35	1.39
26	BB	2146	C	C5'-C4'	5.94	1.58	1.51
32	BH	153	PRO	N-CD	-5.94	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	AC	15	G	C2'-C1'	5.94	1.59	1.53
26	BB	55	G	O3'-P	5.94	1.68	1.61
26	BB	897	C	N3-C4	5.94	1.38	1.33
26	BB	1150	C	C5'-C4'	5.94	1.58	1.51
26	BB	2885	G	C6-N1	5.94	1.43	1.39
1	AA	753	A	C2'-O2'	5.93	1.49	1.41
26	BB	614	A	P-O5'	5.93	1.65	1.59
26	BB	1378	A	N3-C4	5.93	1.38	1.34
26	BB	1482	G	O4'-C1'	5.93	1.49	1.41
26	BB	2079	U	C2-N3	5.93	1.42	1.37
1	AA	350	G	N3-C4	5.93	1.39	1.35
26	BB	106	C	C4'-O4'	-5.93	1.37	1.45
26	BB	483	A	C4'-O4'	-5.93	1.37	1.45
26	BB	1371	G	C8-N7	5.93	1.34	1.30
26	BB	1608	A	C5'-C4'	5.93	1.58	1.51
26	BB	1615	C	C4'-C3'	-5.93	1.46	1.52
26	BB	1867	G	N3-C4	5.93	1.39	1.35
26	BB	2748	A	P-O5'	5.93	1.65	1.59
26	BB	1824	G	C3'-C2'	5.93	1.59	1.52
1	AA	318	G	C6-N1	-5.93	1.35	1.39
1	AA	1188	A	N7-C5	5.93	1.42	1.39
1	AA	1409	C	N1-C6	5.93	1.40	1.37
26	BB	227	A	N3-C4	5.93	1.38	1.34
26	BB	411	G	C8-N7	-5.93	1.27	1.30
26	BB	494	G	N3-C4	5.93	1.39	1.35
26	BB	1238	G	P-O5'	5.93	1.65	1.59
26	BB	1773	A	C5-C6	5.93	1.46	1.41
1	AA	346	G	C4'-O4'	-5.93	1.37	1.45
1	AA	643	C	N1-C2	5.93	1.46	1.40
26	BB	1009	A	N3-C4	5.93	1.38	1.34
1	AA	150	U	N1-C6	5.93	1.43	1.38
1	AA	1272	G	N3-C4	5.93	1.39	1.35
4	AD	29	C	O3'-P	5.93	1.68	1.61
25	BA	114	C	C2-N3	5.93	1.40	1.35
26	BB	100	U	O3'-P	5.93	1.68	1.61
26	BB	1095	A	O4'-C1'	5.93	1.49	1.41
26	BB	1121	C	N1-C6	5.93	1.40	1.37
26	BB	2866	U	C4-C5	5.93	1.48	1.43
1	AA	117	G	C3'-C2'	-5.92	1.46	1.52
1	AA	221	C	C5'-C4'	5.92	1.58	1.51
1	AA	602	A	C5-C6	5.92	1.46	1.41
1	AA	1089	G	C2'-C1'	5.92	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1178	G	N9-C8	5.92	1.42	1.37
26	BB	14	A	C4'-C3'	5.92	1.59	1.53
26	BB	164	C	C5'-C4'	5.92	1.58	1.51
26	BB	555	G	P-O5'	-5.92	1.53	1.59
26	BB	942	G	C2-N2	-5.92	1.28	1.34
26	BB	1115	G	N3-C4	5.92	1.39	1.35
26	BB	1636	U	C3'-C2'	-5.92	1.46	1.52
1	AA	1317	C	C4-C5	5.92	1.47	1.43
26	BB	1596	A	C5-C6	5.92	1.46	1.41
26	BB	1971	U	N1-C6	5.92	1.43	1.38
1	AA	818	G	N7-C5	-5.92	1.35	1.39
1	AA	858	G	N3-C4	5.92	1.39	1.35
1	AA	875	U	C4-C5	5.92	1.48	1.43
1	AA	1059	C	P-O5'	5.92	1.65	1.59
1	AA	1484	C	N3-C4	5.92	1.38	1.33
25	BA	120	U	C4-C5	5.92	1.48	1.43
26	BB	242	G	C3'-C2'	-5.92	1.46	1.52
26	BB	1817	G	N9-C4	5.92	1.42	1.38
1	AA	214	C	P-O5'	5.92	1.65	1.59
26	BB	289	G	C6-N1	5.92	1.43	1.39
26	BB	780	G	C4'-C3'	5.92	1.59	1.53
1	AA	171	A	C5-C6	5.92	1.46	1.41
1	AA	730	G	N3-C4	5.92	1.39	1.35
1	AA	756	C	O4'-C1'	5.92	1.49	1.41
1	AA	1335	U	P-O5'	5.92	1.65	1.59
1	AA	1385	G	C2-N3	5.92	1.37	1.32
26	BB	417	C	C4'-O4'	-5.92	1.37	1.45
26	BB	448	U	C4-C5	5.92	1.48	1.43
26	BB	2158	A	C2'-C1'	-5.92	1.46	1.53
26	BB	2451	A	C4'-C3'	5.92	1.59	1.53
26	BB	2650	U	C5-C6	5.92	1.39	1.34
1	AA	419	C	C5'-C4'	5.92	1.58	1.51
1	AA	749	A	C4'-O4'	-5.92	1.37	1.45
26	BB	269	C	C4-C5	5.92	1.47	1.43
26	BB	848	C	C2-O2	-5.92	1.19	1.24
26	BB	1183	U	N1-C2	5.92	1.43	1.38
26	BB	1847	A	C5-C4	-5.92	1.34	1.38
26	BB	2031	A	C6-N1	-5.92	1.31	1.35
26	BB	2075	U	N1-C6	-5.92	1.32	1.38
26	BB	2139	U	C4'-O4'	-5.92	1.37	1.45
26	BB	2422	C	C5-C6	5.92	1.39	1.34
26	BB	2811	G	C8-N7	5.92	1.34	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	480	U	C2-N3	5.92	1.41	1.37
1	AA	745	G	C5'-C4'	5.92	1.58	1.51
1	AA	1355	G	C4'-O4'	-5.92	1.37	1.45
26	BB	2194	U	O4'-C1'	5.92	1.49	1.41
26	BB	2482	A	C4'-O4'	-5.92	1.37	1.45
1	AA	701	U	P-O5'	5.91	1.65	1.59
26	BB	312	G	C8-N7	5.91	1.34	1.30
26	BB	779	U	C2-O2	5.91	1.27	1.22
26	BB	912	C	C4'-O4'	-5.91	1.37	1.45
26	BB	2138	G	C8-N7	-5.91	1.27	1.30
26	BB	2203	U	O3'-P	5.91	1.68	1.61
26	BB	2523	G	C8-N7	-5.91	1.27	1.30
26	BB	2628	C	C5'-C4'	5.91	1.58	1.51
1	AA	1068	G	P-O5'	5.91	1.65	1.59
25	BA	109	A	N7-C5	5.91	1.42	1.39
26	BB	80	G	C2-N3	5.91	1.37	1.32
26	BB	1933	G	C1'-N9	-5.91	1.38	1.46
1	AA	475	C	P-O5'	5.91	1.65	1.59
1	AA	995	C	C5-C6	5.91	1.39	1.34
25	BA	61	G	C4'-O4'	-5.91	1.37	1.45
26	BB	723	C	C4'-C3'	5.91	1.59	1.53
26	BB	814	C	O4'-C1'	5.91	1.49	1.41
26	BB	2074	U	C2-N3	5.91	1.41	1.37
26	BB	2087	G	N7-C5	-5.91	1.35	1.39
1	AA	328	C	C3'-O3'	5.91	1.50	1.42
1	AA	1025	U	C5-C6	5.91	1.39	1.34
26	BB	162	U	C3'-C2'	-5.91	1.46	1.52
26	BB	603	A	O4'-C1'	5.91	1.49	1.41
26	BB	630	G	N7-C5	5.91	1.42	1.39
26	BB	803	U	C2-N3	5.91	1.41	1.37
26	BB	811	U	C2'-C1'	-5.91	1.46	1.53
26	BB	847	U	C5-C6	5.91	1.39	1.34
26	BB	2011	U	O3'-P	5.91	1.68	1.61
26	BB	2477	U	C5-C6	5.91	1.39	1.34
26	BB	2769	U	C1'-N1	5.91	1.57	1.48
1	AA	191	G	P-O5'	5.91	1.65	1.59
26	BB	1237	A	N9-C4	5.91	1.41	1.37
26	BB	2505	G	C5-C4	5.91	1.42	1.38
26	BB	2632	A	N9-C8	-5.91	1.33	1.37
1	AA	235	C	C2-N3	5.91	1.40	1.35
1	AA	820	U	N1-C2	5.91	1.43	1.38
1	AA	991	U	C4'-O4'	-5.91	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1229	A	O3'-P	5.91	1.68	1.61
1	AA	1332	A	C5-C6	5.91	1.46	1.41
1	AA	1480	A	N9-C4	5.91	1.41	1.37
26	BB	61	C	C2'-C1'	5.91	1.59	1.53
26	BB	809	G	C5-C4	-5.91	1.34	1.38
26	BB	1025	G	C2'-O2'	5.91	1.49	1.41
26	BB	1352	U	C4-C5	5.91	1.48	1.43
26	BB	1664	A	N3-C4	5.91	1.38	1.34
26	BB	2541	A	C2'-C1'	5.91	1.59	1.53
26	BB	2365	G	P-O5'	5.90	1.65	1.59
1	AA	551	U	P-O5'	5.90	1.65	1.59
1	AA	865	A	N9-C4	-5.90	1.34	1.37
1	AA	969	A	N9-C4	5.90	1.41	1.37
26	BB	483	A	C2'-C1'	-5.90	1.46	1.53
26	BB	1078	U	C2-O2	5.90	1.27	1.22
26	BB	1942	C	C4-N4	5.90	1.39	1.33
26	BB	2072	C	C5'-C4'	5.90	1.58	1.51
26	BB	2391	G	N1-C2	5.90	1.42	1.37
26	BB	2509	G	N9-C4	5.90	1.42	1.38
26	BB	2816	G	C4'-C3'	5.90	1.59	1.53
1	AA	415	A	N3-C4	5.90	1.38	1.34
1	AA	1053	G	N7-C5	5.90	1.42	1.39
1	AA	1449	C	C2-O2	-5.90	1.19	1.24
26	BB	79	C	C5-C6	5.90	1.39	1.34
26	BB	842	U	C4-O4	-5.90	1.19	1.23
26	BB	1581	G	N3-C4	5.90	1.39	1.35
26	BB	1752	C	C4-N4	5.90	1.39	1.33
28	BD	77	VAL	CB-CG2	5.90	1.65	1.52
42	BR	18	SER	CB-OG	-5.90	1.34	1.42
26	BB	1242	U	N1-C6	-5.90	1.32	1.38
1	AA	135	C	O3'-P	-5.90	1.54	1.61
4	AD	48	U	C4'-O4'	-5.90	1.37	1.45
26	BB	320	A	C6-N1	5.90	1.39	1.35
26	BB	770	G	N3-C4	5.90	1.39	1.35
26	BB	918	A	O4'-C1'	5.90	1.49	1.41
26	BB	1976	U	C4'-O4'	-5.90	1.37	1.45
26	BB	2816	G	N7-C5	-5.90	1.35	1.39
1	AA	234	C	C2'-O2'	-5.90	1.33	1.41
2	AB	9	A	N7-C5	5.90	1.42	1.39
26	BB	242	G	C4'-O4'	-5.90	1.37	1.45
26	BB	936	A	N9-C4	-5.90	1.34	1.37
26	BB	1028	A	O3'-P	-5.90	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2692	G	O3'-P	5.90	1.68	1.61
26	BB	2766	A	N7-C5	5.90	1.42	1.39
1	AA	1009	U	C4'-O4'	-5.89	1.37	1.45
1	AA	1409	C	C2-O2	-5.89	1.19	1.24
26	BB	280	U	C2-O2	5.89	1.27	1.22
26	BB	670	A	C4'-O4'	-5.89	1.37	1.45
26	BB	836	G	O4'-C1'	5.89	1.49	1.41
26	BB	2513	A	C4'-O4'	-5.89	1.37	1.45
26	BB	2734	A	P-O5'	5.89	1.65	1.59
1	AA	278	G	P-O5'	5.89	1.65	1.59
1	AA	737	C	C5-C6	5.89	1.39	1.34
1	AA	1129	C	P-O5'	5.89	1.65	1.59
1	AA	1278	G	C6-N1	5.89	1.43	1.39
25	BA	31	C	C2'-C1'	5.89	1.59	1.53
26	BB	1612	C	C5'-C4'	5.89	1.58	1.51
26	BB	1698	A	N3-C4	-5.89	1.31	1.34
26	BB	2579	C	N3-C4	-5.89	1.29	1.33
42	BR	19	PHE	CE1-CZ	5.89	1.48	1.37
26	BB	2825	G	N9-C4	5.89	1.42	1.38
1	AA	656	G	C4'-O4'	-5.89	1.37	1.45
1	AA	1418	A	N9-C8	5.89	1.42	1.37
26	BB	260	G	P-O5'	5.89	1.65	1.59
26	BB	1274	A	N9-C4	5.89	1.41	1.37
26	BB	2053	G	N1-C2	5.89	1.42	1.37
26	BB	2221	G	O3'-P	5.89	1.68	1.61
1	AA	712	A	C6-N6	-5.89	1.29	1.33
1	AA	713	G	N1-C2	5.89	1.42	1.37
1	AA	941	G	C5-C4	5.89	1.42	1.38
1	AA	1003	G	P-O5'	5.89	1.65	1.59
1	AA	1190	G	C3'-O3'	5.89	1.50	1.42
1	AA	1274	A	N7-C5	-5.89	1.35	1.39
1	AA	1455	G	C2-N3	5.89	1.37	1.32
4	AD	77	A	C6-N6	5.89	1.38	1.33
26	BB	41	C	C2'-C1'	5.89	1.59	1.53
26	BB	1044	C	N3-C4	5.89	1.38	1.33
1	AA	58	C	C5-C6	5.88	1.39	1.34
1	AA	219	U	C5'-C4'	5.88	1.58	1.51
1	AA	309	A	C6-N1	5.88	1.39	1.35
1	AA	758	C	N3-C4	5.88	1.38	1.33
1	AA	834	U	C2'-C1'	-5.88	1.46	1.53
26	BB	158	U	N3-C4	5.88	1.43	1.38
26	BB	916	G	N3-C4	5.88	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1589	U	O5'-C5'	5.88	1.53	1.44
26	BB	2012	G	C8-N7	-5.88	1.27	1.30
26	BB	2241	A	N7-C5	-5.88	1.35	1.39
26	BB	2260	C	C2-O2	-5.88	1.19	1.24
28	BD	220	ARG	CZ-NH2	5.88	1.40	1.33
26	BB	464	U	C4'-O4'	-5.88	1.38	1.45
26	BB	1802	A	N7-C5	5.88	1.42	1.39
1	AA	311	C	N3-C4	5.88	1.38	1.33
1	AA	848	C	C3'-C2'	-5.88	1.46	1.52
1	AA	912	C	C4'-O4'	-5.88	1.38	1.45
1	AA	946	A	C5-C4	-5.88	1.34	1.38
1	AA	1260	G	N3-C4	-5.88	1.31	1.35
1	AA	1437	A	C2'-O2'	5.88	1.49	1.41
26	BB	306	U	O4'-C1'	5.88	1.49	1.41
26	BB	1461	C	N1-C2	5.88	1.46	1.40
26	BB	1529	G	C8-N7	-5.88	1.27	1.30
26	BB	2351	G	C2-N3	5.88	1.37	1.32
26	BB	2673	G	P-O5'	5.88	1.65	1.59
1	AA	469	C	N1-C6	5.88	1.40	1.37
26	BB	1005	C	C2'-C1'	5.88	1.59	1.53
1	AA	1160	G	N3-C4	5.88	1.39	1.35
26	BB	192	C	C4'-C3'	5.88	1.59	1.53
26	BB	942	G	C8-N7	-5.88	1.27	1.30
26	BB	1229	C	C4'-O4'	-5.88	1.38	1.45
26	BB	2545	G	N1-C2	-5.88	1.33	1.37
1	AA	303	A	N3-C4	5.88	1.38	1.34
1	AA	654	G	C5'-C4'	5.88	1.58	1.51
1	AA	787	A	P-O5'	5.88	1.65	1.59
4	AD	2	G	C4'-O4'	-5.88	1.38	1.45
26	BB	296	U	C3'-C2'	-5.88	1.46	1.52
26	BB	426	C	P-O5'	5.88	1.65	1.59
26	BB	503	A	N9-C4	-5.88	1.34	1.37
26	BB	572	A	N3-C4	5.88	1.38	1.34
26	BB	966	G	C4'-C3'	5.88	1.59	1.53
26	BB	1759	A	C6-N1	5.88	1.39	1.35
26	BB	1969	A	C2'-C1'	-5.88	1.46	1.53
26	BB	2323	G	N1-C2	5.88	1.42	1.37
26	BB	2442	C	N1-C6	-5.88	1.33	1.37
39	BO	91	TYR	CE2-CZ	5.88	1.46	1.38
1	AA	1113	C	N1-C6	5.88	1.40	1.37
3	AC	41	A	C2'-C1'	-5.88	1.46	1.53
26	BB	798	G	C2'-C1'	-5.88	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	629	A	C5-C6	5.87	1.46	1.41
1	AA	1063	C	C3'-C2'	5.87	1.59	1.52
1	AA	1333	A	C5-C4	-5.87	1.34	1.38
1	AA	1524	C	C5-C6	5.87	1.39	1.34
26	BB	39	G	N7-C5	5.87	1.42	1.39
26	BB	563	A	N7-C5	5.87	1.42	1.39
26	BB	1276	A	P-O5'	-5.87	1.53	1.59
26	BB	1333	G	N7-C5	-5.87	1.35	1.39
26	BB	1396	U	N1-C2	5.87	1.43	1.38
26	BB	1527	G	C8-N7	5.87	1.34	1.30
26	BB	1792	G	C2'-C1'	-5.87	1.46	1.53
26	BB	2427	C	C2-N3	5.87	1.40	1.35
26	BB	2841	C	O3'-P	5.87	1.68	1.61
26	BB	2857	G	C2-N2	5.87	1.40	1.34
26	BB	105	C	C2'-C1'	5.87	1.59	1.53
26	BB	429	A	O3'-P	5.87	1.68	1.61
26	BB	481	G	C6-N1	-5.87	1.35	1.39
26	BB	535	G	C5-C6	5.87	1.48	1.42
26	BB	1084	A	P-O5'	5.87	1.65	1.59
26	BB	2139	U	C2-N3	5.87	1.41	1.37
26	BB	2238	G	N3-C4	-5.87	1.31	1.35
26	BB	2717	C	N1-C6	-5.87	1.33	1.37
3	AC	27	A	C5-C4	-5.87	1.34	1.38
26	BB	516	C	C4'-O4'	-5.87	1.38	1.45
26	BB	1260	A	N7-C5	-5.87	1.35	1.39
26	BB	1817	G	C6-N1	5.87	1.43	1.39
26	BB	2205	A	C6-N6	5.87	1.38	1.33
26	BB	2493	U	C5'-C4'	5.87	1.58	1.51
1	AA	355	C	C5-C6	5.87	1.39	1.34
25	BA	75	G	O3'-P	5.87	1.68	1.61
26	BB	294	A	C4'-O4'	-5.87	1.38	1.45
26	BB	2075	U	C4-C5	5.87	1.48	1.43
26	BB	2221	G	C1'-N9	5.87	1.57	1.48
26	BB	2295	C	C2-N3	5.87	1.40	1.35
26	BB	2357	G	N7-C5	5.87	1.42	1.39
26	BB	877	A	C5'-C4'	5.87	1.58	1.51
26	BB	1144	A	N9-C4	-5.87	1.34	1.37
26	BB	1160	G	C2-N3	5.87	1.37	1.32
1	AA	94	G	N7-C5	5.87	1.42	1.39
1	AA	635	A	C4'-O4'	-5.87	1.38	1.45
1	AA	746	A	P-O5'	5.87	1.65	1.59
1	AA	1047	G	C2-N3	5.87	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	908	C	N3-C4	5.87	1.38	1.33
26	BB	1138	G	C5-C4	-5.87	1.34	1.38
26	BB	2515	C	C1'-N1	5.87	1.57	1.48
26	BB	2600	A	N3-C4	5.87	1.38	1.34
1	AA	28	A	O3'-P	5.86	1.68	1.61
1	AA	54	C	C4-N4	-5.86	1.28	1.33
1	AA	861	G	C6-N1	5.86	1.43	1.39
1	AA	1061	G	C6-N1	5.86	1.43	1.39
26	BB	866	A	P-O5'	5.86	1.65	1.59
26	BB	1010	A	P-O5'	5.86	1.65	1.59
26	BB	1363	C	C4-C5	5.86	1.47	1.43
26	BB	1554	U	C5-C6	5.86	1.39	1.34
26	BB	2854	G	N9-C4	-5.86	1.33	1.38
1	AA	302	G	C2-N3	5.86	1.37	1.32
1	AA	703	G	O3'-P	-5.86	1.54	1.61
26	BB	1697	G	C6-O6	-5.86	1.18	1.24
26	BB	1980	G	C2-N3	5.86	1.37	1.32
26	BB	2252	G	C2-N3	5.86	1.37	1.32
26	BB	2427	C	N1-C6	-5.86	1.33	1.37
26	BB	2538	C	C2-N3	5.86	1.40	1.35
1	AA	1421	G	C4'-O4'	-5.86	1.38	1.45
1	AA	1494	G	C4'-C3'	-5.86	1.46	1.52
26	BB	1256	G	N1-C2	5.86	1.42	1.37
26	BB	2431	U	C4'-O4'	-5.86	1.38	1.45
26	BB	2639	A	P-O5'	-5.86	1.53	1.59
1	AA	354	G	C5'-C4'	5.86	1.58	1.51
26	BB	350	G	C2'-O2'	5.86	1.49	1.41
1	AA	730	G	N1-C2	5.86	1.42	1.37
1	AA	1240	U	C4-O4	-5.86	1.19	1.23
25	BA	25	U	C5'-C4'	5.86	1.58	1.51
26	BB	24	G	C2-N2	5.86	1.40	1.34
26	BB	40	U	P-O5'	-5.86	1.53	1.59
26	BB	320	A	N9-C4	5.86	1.41	1.37
26	BB	657	U	C5-C6	5.86	1.39	1.34
26	BB	756	A	P-O5'	5.86	1.65	1.59
26	BB	761	A	O4'-C1'	5.86	1.49	1.41
26	BB	2171	A	P-O5'	5.86	1.65	1.59
26	BB	2460	U	N1-C6	-5.86	1.32	1.38
1	AA	426	U	C2-N3	5.86	1.41	1.37
1	AA	1049	U	C2-N3	5.86	1.41	1.37
1	AA	1223	C	C2'-O2'	5.86	1.49	1.41
26	BB	331	C	P-O5'	5.86	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	416	U	C4-C5	5.86	1.48	1.43
26	BB	470	A	N9-C8	5.86	1.42	1.37
26	BB	1428	C	N1-C6	-5.86	1.33	1.37
26	BB	1720	U	C2-N3	-5.86	1.33	1.37
26	BB	2148	G	N9-C8	-5.86	1.33	1.37
26	BB	2418	A	N3-C4	5.86	1.38	1.34
26	BB	2894	G	C6-N1	5.86	1.43	1.39
1	AA	146	G	C5'-C4'	5.85	1.58	1.51
1	AA	198	G	N1-C2	5.85	1.42	1.37
1	AA	900	A	N9-C8	-5.85	1.33	1.37
1	AA	943	U	O3'-P	-5.85	1.54	1.61
26	BB	2474	U	C4'-O4'	-5.85	1.38	1.45
1	AA	716	A	C3'-C2'	-5.85	1.46	1.52
1	AA	919	A	N3-C4	5.85	1.38	1.34
1	AA	1105	A	C3'-C2'	5.85	1.59	1.52
1	AA	1294	G	C5'-C4'	5.85	1.58	1.51
26	BB	494	G	O3'-P	5.85	1.68	1.61
26	BB	580	U	N3-C4	5.85	1.43	1.38
26	BB	2544	G	C8-N7	-5.85	1.27	1.30
1	AA	328	C	C5-C6	5.85	1.39	1.34
1	AA	936	C	C4'-O4'	-5.85	1.38	1.45
1	AA	1256	A	P-O5'	5.85	1.65	1.59
25	BA	29	A	N9-C8	-5.85	1.33	1.37
26	BB	52	A	C6-N6	-5.85	1.29	1.33
26	BB	1864	U	P-O5'	5.85	1.65	1.59
37	BM	120	PRO	N-CD	-5.85	1.39	1.47
1	AA	38	G	C6-O6	-5.85	1.18	1.24
1	AA	245	U	N1-C2	5.85	1.43	1.38
1	AA	315	A	C5-C6	5.85	1.46	1.41
1	AA	509	A	N9-C8	5.85	1.42	1.37
26	BB	540	C	C5-C6	5.85	1.39	1.34
26	BB	1138	G	N9-C4	5.85	1.42	1.38
26	BB	1655	A	N1-C2	-5.85	1.29	1.34
26	BB	2780	G	C5-C4	-5.85	1.34	1.38
1	AA	173	U	C4-C5	5.85	1.48	1.43
1	AA	892	A	N3-C4	5.85	1.38	1.34
26	BB	297	G	C2-N2	-5.85	1.28	1.34
26	BB	1428	C	N3-C4	-5.85	1.29	1.33
26	BB	1695	G	C2-N3	5.85	1.37	1.32
26	BB	1738	G	C3'-C2'	5.85	1.59	1.52
26	BB	2776	A	C4'-C3'	5.85	1.59	1.53
1	AA	1306	A	O3'-P	5.85	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1479	C	N1-C6	5.85	1.40	1.37
25	BA	22	U	C2'-C1'	5.85	1.59	1.53
26	BB	300	A	C4'-C3'	5.85	1.59	1.53
26	BB	486	C	C3'-C2'	-5.85	1.46	1.52
26	BB	1236	G	C2-N2	5.85	1.40	1.34
26	BB	1271	G	C5-C4	5.85	1.42	1.38
26	BB	1395	A	C5'-C4'	5.85	1.58	1.51
26	BB	1811	G	N3-C4	5.85	1.39	1.35
26	BB	1931	U	O5'-C5'	-5.85	1.33	1.42
26	BB	2199	A	C4'-C3'	5.85	1.59	1.53
38	BN	33	ARG	CZ-NH2	5.85	1.40	1.33
1	AA	525	C	C2-N3	-5.84	1.31	1.35
1	AA	764	C	C5'-C4'	5.84	1.58	1.51
1	AA	843	U	C2-N3	5.84	1.41	1.37
1	AA	937	A	C6-N1	5.84	1.39	1.35
1	AA	1367	C	C5'-C4'	5.84	1.58	1.51
26	BB	618	G	C6-N1	5.84	1.43	1.39
26	BB	930	G	C6-N1	5.84	1.43	1.39
26	BB	1095	A	C5'-C4'	5.84	1.58	1.51
26	BB	1206	G	C4'-O4'	-5.84	1.38	1.45
26	BB	1230	A	C5-C4	-5.84	1.34	1.38
26	BB	1366	A	P-O5'	5.84	1.65	1.59
26	BB	1383	A	C3'-C2'	-5.84	1.46	1.52
26	BB	1935	G	P-O5'	5.84	1.65	1.59
26	BB	2290	G	C2'-O2'	-5.84	1.34	1.41
26	BB	2515	C	C5'-C4'	5.84	1.58	1.51
1	AA	269	C	C4'-O4'	-5.84	1.38	1.45
1	AA	492	C	N1-C2	5.84	1.46	1.40
26	BB	850	U	N1-C2	5.84	1.43	1.38
1	AA	786	G	C3'-C2'	-5.84	1.46	1.52
1	AA	1259	C	C2-N3	5.84	1.40	1.35
1	AA	1375	A	N9-C8	-5.84	1.33	1.37
2	AB	1	A	C4'-O4'	-5.84	1.38	1.45
4	AD	31	G	C6-N1	-5.84	1.35	1.39
4	AD	37	U	C2-N3	5.84	1.41	1.37
25	BA	16	G	N9-C4	5.84	1.42	1.38
26	BB	127	A	N9-C8	5.84	1.42	1.37
26	BB	503	A	C8-N7	-5.84	1.27	1.31
26	BB	1744	A	C8-N7	5.84	1.35	1.31
26	BB	2168	G	C5-C4	-5.84	1.34	1.38
26	BB	2198	A	C5-C4	-5.84	1.34	1.38
26	BB	2680	U	C5-C6	5.84	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2742	G	C4'-C3'	5.84	1.59	1.53
27	BC	232	SER	CB-OG	5.84	1.49	1.42
1	AA	1174	G	C6-O6	-5.84	1.18	1.24
1	AA	1268	G	P-O5'	5.84	1.65	1.59
20	AT	36	PHE	CE2-CZ	5.84	1.48	1.37
26	BB	357	C	O3'-P	5.84	1.68	1.61
26	BB	1361	G	C5'-C4'	5.84	1.58	1.51
26	BB	1595	C	C4-C5	5.84	1.47	1.43
1	AA	1297	G	C3'-C2'	5.84	1.59	1.52
25	BA	101	A	C2-N3	5.84	1.38	1.33
26	BB	2781	A	N9-C4	-5.84	1.34	1.37
26	BB	2797	U	C5'-C4'	5.84	1.58	1.51
1	AA	201	G	C5-C6	5.84	1.48	1.42
1	AA	892	A	N9-C4	5.84	1.41	1.37
1	AA	1252	A	C8-N7	-5.84	1.27	1.31
26	BB	1160	G	C5-C6	5.84	1.48	1.42
26	BB	2756	U	C5'-C4'	5.84	1.58	1.51
26	BB	2817	U	N1-C6	5.84	1.43	1.38
1	AA	560	A	N9-C4	5.83	1.41	1.37
1	AA	1413	A	C6-N1	5.83	1.39	1.35
26	BB	33	C	N1-C6	-5.83	1.33	1.37
34	BJ	134	ALA	CA-CB	5.83	1.64	1.52
26	BB	723	C	O3'-P	5.83	1.68	1.61
26	BB	1338	G	C3'-O3'	5.83	1.50	1.42
26	BB	1916	A	N7-C5	5.83	1.42	1.39
26	BB	2779	U	C4-C5	5.83	1.48	1.43
26	BB	2833	U	C2-O2	5.83	1.27	1.22
1	AA	1152	A	C5-C4	-5.83	1.34	1.38
26	BB	118	A	N7-C5	-5.83	1.35	1.39
26	BB	177	G	C6-O6	-5.83	1.19	1.24
26	BB	825	A	C4'-C3'	5.83	1.59	1.53
26	BB	852	U	C3'-O3'	5.83	1.50	1.42
26	BB	1139	G	C8-N7	-5.83	1.27	1.30
26	BB	2183	A	C5'-C4'	5.83	1.58	1.51
26	BB	2883	A	O4'-C1'	5.83	1.49	1.41
1	AA	70	U	O3'-P	5.83	1.68	1.61
1	AA	1271	A	C6-N1	5.83	1.39	1.35
26	BB	211	C	N1-C2	5.83	1.46	1.40
26	BB	1323	C	C5-C6	5.83	1.39	1.34
1	AA	184	G	C3'-C2'	5.83	1.59	1.52
1	AA	400	C	P-O5'	5.83	1.65	1.59
1	AA	678	U	N3-C4	5.83	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1029	U	P-O5'	5.83	1.65	1.59
1	AA	1273	C	C5'-C4'	5.83	1.58	1.51
26	BB	310	A	C2'-C1'	-5.83	1.47	1.53
26	BB	507	A	N3-C4	5.83	1.38	1.34
26	BB	632	A	C5-C4	-5.83	1.34	1.38
26	BB	2299	U	N3-C4	5.83	1.43	1.38
26	BB	2647	U	C3'-C2'	5.83	1.59	1.52
26	BB	2831	G	N3-C4	5.83	1.39	1.35
1	AA	914	A	C6-N1	-5.83	1.31	1.35
1	AA	1024	G	O3'-P	5.83	1.68	1.61
4	AD	23	G	N1-C2	5.83	1.42	1.37
26	BB	193	U	C4-C5	5.83	1.48	1.43
26	BB	265	A	C8-N7	5.83	1.35	1.31
26	BB	710	U	C4'-O4'	-5.83	1.38	1.45
26	BB	1784	A	N3-C4	5.83	1.38	1.34
26	BB	2213	U	N1-C2	5.83	1.43	1.38
26	BB	2710	C	C4'-C3'	-5.83	1.46	1.52
1	AA	446	G	P-O5'	5.83	1.65	1.59
1	AA	701	U	N1-C2	5.83	1.43	1.38
1	AA	741	G	C4'-O4'	-5.83	1.38	1.45
1	AA	1426	G	N9-C8	5.83	1.42	1.37
3	AC	53	G	N3-C4	5.83	1.39	1.35
26	BB	573	U	N1-C2	5.83	1.43	1.38
26	BB	710	U	C4-C5	5.83	1.48	1.43
26	BB	834	G	N3-C4	5.83	1.39	1.35
26	BB	1091	G	C5-C6	5.83	1.48	1.42
26	BB	1222	U	C4-O4	-5.83	1.19	1.23
26	BB	1248	G	N1-C2	5.83	1.42	1.37
26	BB	2295	C	C5-C6	5.83	1.39	1.34
26	BB	2739	U	O4'-C1'	5.83	1.49	1.41
1	AA	102	G	N3-C4	-5.82	1.31	1.35
1	AA	371	A	C5-C4	-5.82	1.34	1.38
1	AA	793	U	N3-C4	5.82	1.43	1.38
1	AA	883	C	C2-N3	5.82	1.40	1.35
1	AA	1170	A	C8-N7	-5.82	1.27	1.31
1	AA	1210	C	C4-C5	5.82	1.47	1.43
26	BB	146	A	N9-C4	-5.82	1.34	1.37
26	BB	360	U	C4-C5	5.82	1.48	1.43
26	BB	1722	A	N7-C5	5.82	1.42	1.39
26	BB	2178	C	C5'-C4'	5.82	1.58	1.51
26	BB	2422	C	C4-N4	5.82	1.39	1.33
1	AA	341	C	C5'-C4'	5.82	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1186	G	C8-N7	5.82	1.34	1.30
1	AA	1505	G	C8-N7	-5.82	1.27	1.30
26	BB	978	G	N9-C8	-5.82	1.33	1.37
1	AA	1252	A	N1-C2	-5.82	1.29	1.34
1	AA	1364	U	C4-O4	-5.82	1.19	1.23
13	AM	78	GLU	CG-CD	5.82	1.60	1.51
26	BB	387	U	C4-O4	-5.82	1.19	1.23
26	BB	601	C	C2-N3	5.82	1.40	1.35
26	BB	1635	A	C4'-O4'	-5.82	1.38	1.45
26	BB	2100	G	O5'-C5'	-5.82	1.33	1.42
26	BB	2324	U	C4-O4	5.82	1.28	1.23
26	BB	2339	C	O3'-P	5.82	1.68	1.61
32	BH	107	GLY	N-CA	5.82	1.54	1.46
1	AA	1454	G	C8-N7	-5.82	1.27	1.30
1	AA	1487	G	O3'-P	5.82	1.68	1.61
26	BB	511	U	N1-C6	5.82	1.43	1.38
26	BB	1168	G	C5-C6	5.82	1.48	1.42
26	BB	1359	A	N9-C4	-5.82	1.34	1.37
26	BB	2225	A	P-O5'	5.82	1.65	1.59
26	BB	2685	G	N7-C5	5.82	1.42	1.39
1	AA	414	A	C4'-O4'	-5.82	1.38	1.45
1	AA	441	A	C2-N3	5.82	1.38	1.33
1	AA	679	C	N3-C4	-5.82	1.29	1.33
1	AA	755	G	C5-C4	-5.82	1.34	1.38
1	AA	1340	A	C3'-C2'	5.82	1.59	1.52
26	BB	551	G	O3'-P	5.82	1.68	1.61
26	BB	869	G	N3-C4	5.82	1.39	1.35
26	BB	950	G	N9-C4	-5.82	1.33	1.38
1	AA	1107	C	O3'-P	5.82	1.68	1.61
1	AA	1228	C	P-O5'	5.82	1.65	1.59
1	AA	1365	G	P-O5'	-5.82	1.53	1.59
26	BB	408	G	N3-C4	5.82	1.39	1.35
26	BB	633	A	P-O5'	5.82	1.65	1.59
26	BB	1182	G	N3-C4	-5.82	1.31	1.35
26	BB	1413	A	C5-C4	-5.82	1.34	1.38
26	BB	2091	C	C4'-O4'	-5.82	1.38	1.45
26	BB	2177	C	C2'-C1'	5.82	1.59	1.53
1	AA	1464	U	C5-C6	5.81	1.39	1.34
4	AD	61	U	N1-C2	5.81	1.43	1.38
26	BB	31	C	N3-C4	-5.81	1.29	1.33
26	BB	35	G	C2'-O2'	5.81	1.49	1.41
26	BB	804	A	N9-C4	5.81	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1639	C	C4-C5	5.81	1.47	1.43
26	BB	2157	G	C6-N1	5.81	1.43	1.39
26	BB	2256	G	C2'-O2'	5.81	1.49	1.41
1	AA	457	G	C2-N3	5.81	1.37	1.32
26	BB	511	U	P-O5'	5.81	1.65	1.59
26	BB	1028	A	C2'-C1'	-5.81	1.47	1.53
26	BB	1929	G	P-O5'	5.81	1.65	1.59
26	BB	2212	A	C4'-O4'	-5.81	1.38	1.45
26	BB	2609	U	N1-C6	5.81	1.43	1.38
1	AA	791	G	N7-C5	5.81	1.42	1.39
9	AI	4	TYR	CD2-CE2	5.81	1.48	1.39
26	BB	1868	C	C4-C5	5.81	1.47	1.43
1	AA	1124	G	O3'-P	5.81	1.68	1.61
25	BA	94	A	N3-C4	5.81	1.38	1.34
25	BA	98	G	C5'-C4'	5.81	1.58	1.51
26	BB	801	G	C4'-O4'	-5.81	1.38	1.45
1	AA	280	C	P-O5'	5.81	1.65	1.59
4	AD	6	G	C2'-C1'	5.81	1.59	1.53
25	BA	32	U	N1-C2	5.81	1.43	1.38
25	BA	80	U	C2-O2	-5.81	1.17	1.22
26	BB	212	G	C2'-C1'	5.81	1.59	1.53
26	BB	419	U	N3-C4	5.81	1.43	1.38
26	BB	764	A	C5'-C4'	5.81	1.58	1.51
26	BB	992	C	C4'-C3'	-5.81	1.46	1.52
26	BB	1034	G	C6-N1	-5.81	1.35	1.39
26	BB	1139	G	N9-C8	5.81	1.42	1.37
26	BB	1947	C	C4-C5	5.81	1.47	1.43
26	BB	2355	G	C6-N1	5.81	1.43	1.39
26	BB	2447	G	O3'-P	5.81	1.68	1.61
26	BB	2783	U	C2'-C1'	5.81	1.59	1.53
1	AA	1525	G	C4'-O4'	-5.81	1.38	1.45
26	BB	171	U	C2-N3	5.81	1.41	1.37
1	AA	779	C	C4'-O4'	-5.80	1.38	1.45
1	AA	1010	U	C2-N3	5.80	1.41	1.37
1	AA	1461	G	N7-C5	5.80	1.42	1.39
4	AD	37	U	N1-C2	5.80	1.43	1.38
4	AD	44	A	C5-C6	5.80	1.46	1.41
26	BB	160	A	C6-N6	-5.80	1.29	1.33
26	BB	475	C	C2'-C1'	-5.80	1.47	1.53
26	BB	525	U	P-O5'	5.80	1.65	1.59
26	BB	1142	A	P-O5'	5.80	1.65	1.59
26	BB	1176	U	P-O5'	5.80	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1329	U	C4'-C3'	5.80	1.59	1.53
1	AA	957	U	N1-C2	5.80	1.43	1.38
26	BB	733	G	C5'-C4'	5.80	1.58	1.51
1	AA	672	U	C4-O4	-5.80	1.19	1.23
1	AA	1112	C	C3'-C2'	5.80	1.59	1.52
1	AA	1332	A	O4'-C1'	5.80	1.49	1.41
26	BB	864	G	N1-C2	5.80	1.42	1.37
26	BB	1909	C	N3-C4	5.80	1.38	1.33
26	BB	2219	U	C4-C5	5.80	1.48	1.43
1	AA	12	U	C3'-C2'	-5.80	1.46	1.52
1	AA	1133	G	C3'-C2'	-5.80	1.46	1.52
1	AA	1158	C	C5'-C4'	5.80	1.58	1.51
1	AA	1209	C	C5'-C4'	5.80	1.58	1.51
1	AA	1337	G	C3'-C2'	5.80	1.59	1.52
6	AF	81	GLU	CB-CG	5.80	1.63	1.52
20	AT	73	THR	CB-OG1	-5.80	1.31	1.43
26	BB	171	U	C4-O4	5.80	1.28	1.23
26	BB	875	G	P-O5'	5.80	1.65	1.59
26	BB	1195	G	C2'-O2'	-5.80	1.34	1.41
26	BB	1672	A	C8-N7	5.80	1.35	1.31
26	BB	1897	G	O3'-P	5.80	1.68	1.61
26	BB	2171	A	C5'-C4'	5.80	1.58	1.51
26	BB	2367	G	C2'-O2'	5.80	1.49	1.41
26	BB	2444	G	N1-C2	5.80	1.42	1.37
26	BB	2640	G	N7-C5	5.80	1.42	1.39
14	AN	10	ARG	NE-CZ	5.80	1.40	1.33
26	BB	957	C	N1-C6	5.80	1.40	1.37
26	BB	2562	U	C3'-C2'	5.80	1.59	1.52
1	AA	722	G	N9-C4	5.80	1.42	1.38
1	AA	1003	G	C6-N1	5.80	1.43	1.39
3	AC	21	U	C4-O4	5.80	1.28	1.23
25	BA	113	C	N1-C6	-5.80	1.33	1.37
26	BB	14	A	C2-N3	5.80	1.38	1.33
26	BB	694	U	C2-O2	5.80	1.27	1.22
26	BB	863	A	C4'-C3'	5.80	1.59	1.53
26	BB	1179	G	O3'-P	-5.80	1.54	1.61
26	BB	1339	G	N3-C4	5.80	1.39	1.35
26	BB	2356	U	O3'-P	5.80	1.68	1.61
26	BB	2537	U	C3'-C2'	5.80	1.59	1.52
26	BB	2721	A	C5-C4	-5.80	1.34	1.38
1	AA	445	G	C2-N3	5.79	1.37	1.32
26	BB	213	A	N9-C4	5.79	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2129	C	C2-N3	5.79	1.40	1.35
1	AA	260	G	C6-O6	5.79	1.29	1.24
26	BB	1627	G	C2-N3	5.79	1.37	1.32
26	BB	1728	C	N3-C4	-5.79	1.29	1.33
26	BB	1834	U	C2-O2	5.79	1.27	1.22
26	BB	2370	G	C2-N2	-5.79	1.28	1.34
1	AA	1267	C	N3-C4	5.79	1.38	1.33
1	AA	1531	A	C6-N1	-5.79	1.31	1.35
26	BB	244	A	N9-C8	5.79	1.42	1.37
26	BB	371	A	P-O5'	-5.79	1.53	1.59
26	BB	762	U	N1-C2	5.79	1.43	1.38
26	BB	821	A	C4'-O4'	-5.79	1.38	1.45
26	BB	2283	C	C3'-O3'	5.79	1.50	1.42
26	BB	2663	G	N9-C8	-5.79	1.33	1.37
1	AA	207	C	C4'-O4'	-5.79	1.38	1.45
6	AF	124	GLU	CD-OE2	5.79	1.32	1.25
26	BB	2217	G	N9-C4	-5.79	1.33	1.38
26	BB	2418	A	N1-C2	5.79	1.39	1.34
1	AA	404	G	N9-C4	5.79	1.42	1.38
1	AA	1006	G	N7-C5	5.79	1.42	1.39
1	AA	1258	G	N7-C5	-5.79	1.35	1.39
26	BB	2	G	C6-O6	-5.79	1.19	1.24
26	BB	193	U	C2-N3	5.79	1.41	1.37
26	BB	842	U	N1-C2	5.79	1.43	1.38
26	BB	1784	A	C6-N1	-5.79	1.31	1.35
26	BB	2579	C	C4-C5	5.79	1.47	1.43
1	AA	186	C	C5-C6	5.79	1.39	1.34
26	BB	350	G	C8-N7	-5.79	1.27	1.30
26	BB	585	G	N9-C4	5.79	1.42	1.38
26	BB	2156	G	C3'-C2'	-5.79	1.46	1.52
26	BB	2615	U	N3-C4	5.79	1.43	1.38
1	AA	848	C	C4'-O4'	-5.79	1.38	1.45
26	BB	189	G	C5'-C4'	5.79	1.58	1.51
26	BB	618	G	C5-C4	5.79	1.42	1.38
26	BB	886	A	N9-C4	5.79	1.41	1.37
26	BB	1049	C	C4-N4	-5.79	1.28	1.33
26	BB	1644	C	C5-C6	5.79	1.39	1.34
26	BB	2091	C	N1-C6	5.79	1.40	1.37
26	BB	2556	C	C5-C6	5.79	1.39	1.34
1	AA	260	G	P-O5'	-5.78	1.53	1.59
1	AA	730	G	C8-N7	-5.78	1.27	1.30
1	AA	815	A	C2'-O2'	5.78	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	926	G	C5'-C4'	5.78	1.58	1.51
4	AD	61	U	C5'-C4'	5.78	1.58	1.51
26	BB	231	A	N3-C4	5.78	1.38	1.34
26	BB	737	C	N1-C2	5.78	1.46	1.40
26	BB	1396	U	C4-O4	5.78	1.28	1.23
26	BB	2413	G	N1-C2	5.78	1.42	1.37
26	BB	2603	G	P-O5'	5.78	1.65	1.59
26	BB	2628	C	C4-C5	5.78	1.47	1.43
26	BB	2657	A	C3'-C2'	-5.78	1.46	1.52
26	BB	1110	G	C2'-C1'	-5.78	1.47	1.53
1	AA	142	G	C2'-O2'	5.78	1.49	1.41
1	AA	1309	G	C2-N3	5.78	1.37	1.32
26	BB	103	A	C6-N1	-5.78	1.31	1.35
26	BB	1615	C	C5-C6	5.78	1.39	1.34
26	BB	1615	C	N1-C2	-5.78	1.34	1.40
26	BB	1849	G	P-O5'	5.78	1.65	1.59
1	AA	1227	A	C5-C4	-5.78	1.34	1.38
2	AB	29	G	C6-O6	-5.78	1.19	1.24
25	BA	105	G	N1-C2	5.78	1.42	1.37
26	BB	1493	C	C5-C6	5.78	1.39	1.34
26	BB	2163	A	N9-C4	5.78	1.41	1.37
1	AA	17	U	C5'-C4'	5.78	1.58	1.51
1	AA	166	U	P-O5'	5.78	1.65	1.59
15	AO	103	CYS	CB-SG	-5.78	1.72	1.81
26	BB	372	G	C5-C4	-5.78	1.34	1.38
26	BB	1307	A	C3'-C2'	5.78	1.59	1.52
26	BB	1436	G	C8-N7	5.78	1.34	1.30
26	BB	1689	A	C8-N7	5.78	1.35	1.31
26	BB	2850	A	C4'-C3'	-5.78	1.46	1.52
49	BY	13	ARG	CZ-NH2	5.78	1.40	1.33
1	AA	377	G	O3'-P	5.78	1.68	1.61
1	AA	416	G	C6-N1	-5.78	1.35	1.39
1	AA	700	G	C8-N7	5.78	1.34	1.30
26	BB	102	U	C5-C6	5.78	1.39	1.34
26	BB	845	A	P-O5'	5.78	1.65	1.59
26	BB	1033	U	N3-C4	5.78	1.43	1.38
26	BB	1362	C	N1-C6	5.78	1.40	1.37
26	BB	2263	C	N1-C2	-5.78	1.34	1.40
1	AA	1449	C	N1-C6	5.77	1.40	1.37
1	AA	350	G	C5-C4	-5.77	1.34	1.38
1	AA	860	A	C5-C4	-5.77	1.34	1.38
1	AA	1179	A	O3'-P	5.77	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1213	A	N1-C2	-5.77	1.29	1.34
1	AA	1335	U	N3-C4	5.77	1.43	1.38
1	AA	1458	G	O3'-P	5.77	1.68	1.61
26	BB	291	G	C5-C4	5.77	1.42	1.38
26	BB	327	G	N1-C2	5.77	1.42	1.37
26	BB	1029	A	C6-N6	-5.77	1.29	1.33
26	BB	1096	A	C6-N1	-5.77	1.31	1.35
26	BB	1900	A	C8-N7	-5.77	1.27	1.31
26	BB	2126	A	C2'-C1'	5.77	1.59	1.53
26	BB	2659	G	N3-C4	5.77	1.39	1.35
26	BB	2754	U	P-O5'	5.77	1.65	1.59
26	BB	32	C	O4'-C1'	-5.77	1.34	1.41
26	BB	108	G	P-O5'	5.77	1.65	1.59
26	BB	266	G	N7-C5	5.77	1.42	1.39
26	BB	792	A	C4'-O4'	-5.77	1.38	1.45
26	BB	1228	G	C6-N1	-5.77	1.35	1.39
26	BB	2081	U	N1-C2	5.77	1.43	1.38
1	AA	916	U	C5-C6	5.77	1.39	1.34
1	AA	963	G	N3-C4	5.77	1.39	1.35
1	AA	1162	C	C4-C5	5.77	1.47	1.43
1	AA	1394	A	C6-N6	5.77	1.38	1.33
1	AA	1473	G	P-O5'	5.77	1.65	1.59
26	BB	441	U	C5-C6	5.77	1.39	1.34
26	BB	710	U	C1'-N1	5.77	1.57	1.48
26	BB	1261	C	P-O5'	5.77	1.65	1.59
26	BB	1467	U	C2-N3	5.77	1.41	1.37
26	BB	1544	A	N3-C4	5.77	1.38	1.34
26	BB	1567	G	C2'-O2'	-5.77	1.34	1.41
26	BB	1692	U	C5'-C4'	5.77	1.58	1.51
26	BB	2203	U	C5-C6	5.77	1.39	1.34
26	BB	2679	A	N7-C5	-5.77	1.35	1.39
1	AA	263	A	N9-C4	5.77	1.41	1.37
1	AA	553	A	C4'-O4'	-5.77	1.38	1.45
1	AA	600	A	C5-C4	-5.77	1.34	1.38
1	AA	695	A	C5-C4	-5.77	1.34	1.38
1	AA	1520	C	C5-C6	5.77	1.39	1.34
26	BB	25	U	N3-C4	-5.77	1.33	1.38
26	BB	691	C	C4-C5	5.77	1.47	1.43
26	BB	1171	G	C2-N3	5.77	1.37	1.32
26	BB	1513	U	C4'-O4'	-5.77	1.38	1.45
26	BB	1718	G	O3'-P	-5.77	1.54	1.61
26	BB	2626	C	C5'-C4'	5.77	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2653	U	P-O5'	-5.77	1.53	1.59
1	AA	720	C	C3'-O3'	5.77	1.50	1.42
3	AC	34	U	C3'-C2'	5.77	1.59	1.52
26	BB	2342	C	C4-C5	-5.77	1.38	1.43
26	BB	2707	U	C5'-C4'	5.77	1.58	1.51
1	AA	240	G	C2'-O2'	5.76	1.49	1.41
1	AA	277	C	O5'-C5'	-5.76	1.33	1.42
1	AA	301	G	C4'-C3'	-5.76	1.46	1.52
1	AA	729	A	C4'-O4'	-5.76	1.38	1.45
1	AA	1319	A	C4'-C3'	5.76	1.59	1.53
1	AA	1325	C	N1-C2	5.76	1.46	1.40
26	BB	533	G	C6-N1	-5.76	1.35	1.39
26	BB	605	G	C2-N2	5.76	1.40	1.34
26	BB	840	C	N1-C2	5.76	1.46	1.40
26	BB	1271	G	C8-N7	5.76	1.34	1.30
26	BB	2295	C	O3'-P	5.76	1.68	1.61
26	BB	2566	A	N3-C4	5.76	1.38	1.34
1	AA	229	U	N1-C2	5.76	1.43	1.38
26	BB	216	A	C5-C4	-5.76	1.34	1.38
26	BB	999	U	O3'-P	5.76	1.68	1.61
26	BB	1980	G	C6-N1	5.76	1.43	1.39
26	BB	2763	G	C2-N3	5.76	1.37	1.32
1	AA	476	U	N1-C6	5.76	1.43	1.38
1	AA	655	A	N7-C5	5.76	1.42	1.39
26	BB	632	A	C5-C6	5.76	1.46	1.41
26	BB	1078	U	O3'-P	5.76	1.68	1.61
1	AA	131	A	P-O5'	5.76	1.65	1.59
1	AA	851	G	N3-C4	5.76	1.39	1.35
1	AA	1234	C	N1-C6	5.76	1.40	1.37
3	AC	56	G	C2'-C1'	5.76	1.59	1.53
4	AD	4	G	N7-C5	5.76	1.42	1.39
4	AD	61	U	P-O5'	5.76	1.65	1.59
26	BB	497	A	C6-N6	5.76	1.38	1.33
26	BB	2693	G	C2-N3	5.76	1.37	1.32
1	AA	648	A	N9-C4	5.76	1.41	1.37
26	BB	1806	C	C3'-C2'	-5.76	1.46	1.52
1	AA	729	A	C5-C4	-5.76	1.34	1.38
1	AA	1174	G	P-O5'	5.76	1.65	1.59
1	AA	1394	A	N9-C4	5.76	1.41	1.37
1	AA	1435	G	C2-N3	5.76	1.37	1.32
26	BB	145	C	O3'-P	5.76	1.68	1.61
26	BB	213	A	C3'-C2'	5.76	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1196	C	C5-C6	5.76	1.39	1.34
26	BB	1547	C	C2-N3	5.76	1.40	1.35
26	BB	2540	C	C5'-C4'	5.76	1.58	1.51
26	BB	2815	C	P-O5'	5.76	1.65	1.59
26	BB	549	G	O3'-P	5.75	1.68	1.61
26	BB	1548	A	N7-C5	-5.75	1.35	1.39
26	BB	2044	C	C3'-C2'	5.75	1.59	1.52
1	AA	192	A	P-O5'	5.75	1.65	1.59
1	AA	783	C	N3-C4	5.75	1.38	1.33
1	AA	1350	A	N9-C8	5.75	1.42	1.37
26	BB	12	U	C4'-O4'	-5.75	1.38	1.45
26	BB	432	A	C5-C6	5.75	1.46	1.41
26	BB	1028	A	N9-C8	-5.75	1.33	1.37
26	BB	1030	C	O5'-C5'	-5.75	1.33	1.42
26	BB	1089	A	N9-C8	5.75	1.42	1.37
26	BB	2560	A	N9-C8	5.75	1.42	1.37
26	BB	2630	G	C5-C4	-5.75	1.34	1.38
26	BB	2847	U	C4-O4	5.75	1.28	1.23
1	AA	226	G	N1-C2	5.75	1.42	1.37
1	AA	227	G	P-O5'	5.75	1.65	1.59
1	AA	607	A	C2'-C1'	5.75	1.59	1.53
1	AA	1033	G	C4'-C3'	-5.75	1.46	1.52
26	BB	519	U	O3'-P	-5.75	1.54	1.61
26	BB	1133	A	C4'-C3'	5.75	1.59	1.53
26	BB	1346	G	C2-N3	5.75	1.37	1.32
26	BB	1483	G	C5-C4	-5.75	1.34	1.38
26	BB	2033	A	N3-C4	5.75	1.38	1.34
26	BB	2415	G	C3'-C2'	-5.75	1.46	1.52
26	BB	2822	G	C5-C4	-5.75	1.34	1.38
1	AA	1280	A	P-O5'	5.75	1.65	1.59
1	AA	1501	C	C5'-C4'	5.75	1.58	1.51
25	BA	95	U	C3'-C2'	5.75	1.59	1.52
26	BB	1665	A	C5-C4	-5.75	1.34	1.38
26	BB	2363	G	P-O5'	5.75	1.65	1.59
26	BB	2597	G	N3-C4	5.75	1.39	1.35
1	AA	135	C	C4-C5	5.75	1.47	1.43
1	AA	685	G	P-O5'	5.75	1.65	1.59
1	AA	816	A	N9-C4	-5.75	1.34	1.37
1	AA	1265	C	C4'-O4'	-5.75	1.38	1.45
1	AA	1477	U	P-O5'	5.75	1.65	1.59
3	AC	21	U	C5-C6	5.75	1.39	1.34
4	AD	32	G	N1-C2	5.75	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	553	G	C4'-C3'	-5.75	1.46	1.52
26	BB	2741	A	C2-N3	-5.75	1.28	1.33
1	AA	128	G	N3-C4	5.75	1.39	1.35
1	AA	989	U	C4'-C3'	5.75	1.59	1.53
1	AA	1156	G	C2-N3	5.75	1.37	1.32
26	BB	501	A	C2'-C1'	-5.75	1.47	1.53
26	BB	2668	G	C2-N2	5.75	1.40	1.34
26	BB	2776	A	C4'-O4'	-5.75	1.38	1.45
26	BB	2851	A	C6-N1	-5.75	1.31	1.35
1	AA	993	G	C3'-O3'	5.75	1.50	1.42
26	BB	1773	A	N1-C2	5.75	1.39	1.34
26	BB	1983	G	C4'-O4'	-5.75	1.38	1.45
1	AA	16	A	N9-C4	5.74	1.41	1.37
1	AA	498	A	C2'-C1'	-5.74	1.47	1.53
1	AA	1183	U	C5'-C4'	5.74	1.58	1.51
2	AB	1	A	C2'-C1'	5.74	1.59	1.53
26	BB	1026	G	C5'-C4'	5.74	1.58	1.51
26	BB	2749	A	N7-C5	5.74	1.42	1.39
26	BB	1267	U	C4'-O4'	-5.74	1.38	1.45
26	BB	1742	U	N1-C2	5.74	1.43	1.38
26	BB	2828	G	N9-C8	-5.74	1.33	1.37
1	AA	125	U	C4'-O4'	-5.74	1.38	1.45
1	AA	827	U	O3'-P	5.74	1.68	1.61
1	AA	1436	U	C2-N3	5.74	1.41	1.37
1	AA	1520	C	C4-C5	5.74	1.47	1.43
1	AA	1539	C	C5-C6	5.74	1.39	1.34
26	BB	93	G	O3'-P	5.74	1.68	1.61
26	BB	2296	U	P-O5'	5.74	1.65	1.59
26	BB	2432	A	C6-N6	5.74	1.38	1.33
26	BB	2610	C	O3'-P	5.74	1.68	1.61
26	BB	2659	G	C5-C4	-5.74	1.34	1.38
40	BP	49	GLU	CD-OE1	-5.74	1.19	1.25
1	AA	792	A	C8-N7	-5.74	1.27	1.31
7	AG	106	PHE	CG-CD2	5.74	1.47	1.38
26	BB	55	G	C2-N3	5.74	1.37	1.32
26	BB	308	G	C4'-O4'	-5.74	1.38	1.45
26	BB	311	A	C5'-C4'	5.74	1.58	1.51
26	BB	789	A	C4'-C3'	5.74	1.59	1.53
26	BB	1523	U	C2-N3	5.74	1.41	1.37
26	BB	2302	U	O4'-C1'	5.74	1.49	1.41
26	BB	2553	G	C8-N7	5.74	1.34	1.30
26	BB	2600	A	N7-C5	-5.74	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	554	A	C8-N7	-5.74	1.27	1.31
26	BB	843	G	N9-C4	-5.74	1.33	1.38
1	AA	285	C	C2'-C1'	5.74	1.59	1.53
1	AA	661	G	C5'-C4'	5.74	1.58	1.51
1	AA	721	G	N9-C8	-5.74	1.33	1.37
1	AA	1225	A	N9-C4	5.74	1.41	1.37
4	AD	38	A	C4'-O4'	-5.74	1.38	1.45
5	AE	201	GLY	CA-C	5.74	1.61	1.51
26	BB	57	C	P-O5'	5.74	1.65	1.59
26	BB	452	G	C8-N7	-5.74	1.27	1.30
26	BB	949	G	C8-N7	-5.74	1.27	1.30
26	BB	1064	C	N3-C4	5.74	1.38	1.33
26	BB	1067	A	N1-C2	-5.74	1.29	1.34
26	BB	2016	U	C2-N3	5.74	1.41	1.37
26	BB	2861	U	N1-C6	-5.74	1.32	1.38
1	AA	82	G	N7-C5	5.73	1.42	1.39
1	AA	332	G	C5'-C4'	5.73	1.58	1.51
1	AA	998	C	N3-C4	5.73	1.38	1.33
1	AA	1094	G	N1-C2	5.73	1.42	1.37
1	AA	1383	C	C5'-C4'	5.73	1.58	1.51
2	AB	75	C	C2'-C1'	-5.73	1.47	1.53
26	BB	589	U	C4'-O4'	-5.73	1.38	1.45
26	BB	1219	U	N1-C2	5.73	1.43	1.38
1	AA	470	C	C5-C6	5.73	1.39	1.34
1	AA	530	G	C5-C4	-5.73	1.34	1.38
1	AA	1362	A	C4'-O4'	-5.73	1.38	1.45
1	AA	1393	U	C5-C6	5.73	1.39	1.34
26	BB	1574	C	P-O5'	5.73	1.65	1.59
26	BB	1622	G	N1-C2	5.73	1.42	1.37
26	BB	1771	C	C5-C6	5.73	1.39	1.34
26	BB	2162	G	C2'-C1'	-5.73	1.47	1.53
28	BD	198	GLU	CD-OE1	5.73	1.31	1.25
1	AA	501	C	N3-C4	5.73	1.38	1.33
1	AA	651	C	O3'-P	5.73	1.68	1.61
1	AA	1265	C	N3-C4	5.73	1.38	1.33
1	AA	1540	U	C1'-N1	5.73	1.57	1.48
25	BA	71	C	P-O5'	5.73	1.65	1.59
26	BB	248	G	N9-C8	-5.73	1.33	1.37
26	BB	875	G	N9-C8	-5.73	1.33	1.37
26	BB	901	C	N1-C2	5.73	1.45	1.40
26	BB	918	A	C5-C6	5.73	1.46	1.41
26	BB	2000	C	C3'-O3'	5.73	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2363	G	N9-C8	5.73	1.41	1.37
26	BB	2559	C	C2'-C1'	5.73	1.59	1.53
26	BB	634	C	C2-N3	5.73	1.40	1.35
26	BB	1185	G	C4'-C3'	5.73	1.59	1.53
26	BB	2834	G	C2'-C1'	5.73	1.59	1.53
1	AA	735	C	C4'-O4'	-5.73	1.38	1.45
1	AA	1248	A	C5'-C4'	5.73	1.58	1.51
25	BA	66	A	C6-N1	-5.73	1.31	1.35
26	BB	58	G	C5-C4	5.73	1.42	1.38
26	BB	216	A	P-O5'	5.73	1.65	1.59
26	BB	1021	A	C6-N6	5.73	1.38	1.33
26	BB	1666	G	C5-C4	5.73	1.42	1.38
1	AA	35	G	P-O5'	5.73	1.65	1.59
1	AA	1450	U	C4'-O4'	-5.73	1.38	1.45
26	BB	2223	G	C5-C6	5.73	1.48	1.42
1	AA	1449	C	C2'-C1'	-5.72	1.47	1.53
26	BB	1150	C	P-O5'	5.72	1.65	1.59
26	BB	1320	C	C4-C5	5.72	1.47	1.43
26	BB	1739	A	C3'-C2'	-5.72	1.46	1.52
26	BB	1878	G	O3'-P	5.72	1.68	1.61
26	BB	2155	U	N3-C4	5.72	1.43	1.38
1	AA	1355	G	N3-C4	5.72	1.39	1.35
1	AA	1499	A	P-O5'	5.72	1.65	1.59
25	BA	76	G	C4'-O4'	-5.72	1.38	1.45
26	BB	1713	A	O3'-P	-5.72	1.54	1.61
26	BB	2411	A	C2-N3	-5.72	1.28	1.33
26	BB	2718	G	N7-C5	-5.72	1.35	1.39
26	BB	65	U	P-O5'	-5.72	1.54	1.59
26	BB	1453	A	C5'-C4'	5.72	1.58	1.51
26	BB	1522	A	C2'-O2'	5.72	1.49	1.41
1	AA	241	G	C6-N1	5.72	1.43	1.39
25	BA	24	G	N7-C5	5.72	1.42	1.39
26	BB	2599	G	N9-C4	5.72	1.42	1.38
26	BB	2835	A	O3'-P	5.72	1.68	1.61
26	BB	795	C	N3-C4	5.72	1.38	1.33
26	BB	1482	G	P-O5'	5.72	1.65	1.59
26	BB	1583	A	C5-C6	5.72	1.46	1.41
1	AA	174	A	C2'-O2'	5.72	1.49	1.41
2	AB	30	G	N9-C4	-5.72	1.33	1.38
26	BB	407	G	N9-C8	5.72	1.41	1.37
26	BB	1527	G	C5'-C4'	5.72	1.58	1.51
26	BB	2446	G	C6-N1	5.72	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2644	G	C8-N7	5.72	1.34	1.30
26	BB	2736	A	N7-C5	5.72	1.42	1.39
26	BB	2815	C	C3'-O3'	5.72	1.50	1.42
1	AA	134	G	O4'-C1'	5.71	1.49	1.41
25	BA	91	C	C4'-C3'	5.71	1.59	1.53
25	BA	102	G	C4'-O4'	-5.71	1.38	1.45
26	BB	267	C	C4'-O4'	-5.71	1.38	1.45
26	BB	1267	U	N1-C2	5.71	1.43	1.38
26	BB	1491	G	N3-C4	5.71	1.39	1.35
26	BB	1869	G	C6-N1	5.71	1.43	1.39
26	BB	2003	A	C2-N3	-5.71	1.28	1.33
26	BB	2128	G	N3-C4	5.71	1.39	1.35
26	BB	2472	G	C6-O6	-5.71	1.19	1.24
26	BB	2889	C	C4'-O4'	-5.71	1.38	1.45
1	AA	428	G	N9-C8	-5.71	1.33	1.37
1	AA	1418	A	C8-N7	-5.71	1.27	1.31
26	BB	1283	G	O4'-C1'	5.71	1.49	1.41
1	AA	632	U	C5-C6	5.71	1.39	1.34
1	AA	1001	C	C5-C6	5.71	1.39	1.34
25	BA	86	G	C4'-C3'	5.71	1.59	1.53
26	BB	968	C	O3'-P	-5.71	1.54	1.61
26	BB	1714	U	C3'-C2'	-5.71	1.46	1.52
26	BB	2121	G	N9-C4	-5.71	1.33	1.38
26	BB	2320	U	C4-C5	5.71	1.48	1.43
26	BB	2458	G	C5'-C4'	5.71	1.58	1.51
1	AA	302	G	N9-C4	-5.71	1.33	1.38
1	AA	330	C	C4-C5	5.71	1.47	1.43
1	AA	808	C	C4'-C3'	-5.71	1.46	1.52
1	AA	820	U	C2-N3	5.71	1.41	1.37
1	AA	927	G	C5'-C4'	5.71	1.58	1.51
26	BB	2053	G	C5-C4	5.71	1.42	1.38
1	AA	67	C	C4'-C3'	5.71	1.59	1.53
1	AA	169	C	C4-N4	5.71	1.39	1.33
1	AA	1202	U	C3'-O3'	5.71	1.50	1.42
2	AB	62	U	C5'-C4'	5.71	1.58	1.51
4	AD	65	G	C6-N1	-5.71	1.35	1.39
25	BA	59	A	N1-C2	5.71	1.39	1.34
26	BB	359	G	C3'-O3'	5.71	1.50	1.42
26	BB	428	A	C2'-C1'	5.71	1.59	1.53
26	BB	1586	A	C5'-C4'	5.71	1.58	1.51
26	BB	1725	U	C5'-C4'	5.71	1.58	1.51
26	BB	2329	U	C3'-C2'	5.71	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2434	A	N7-C5	-5.71	1.35	1.39
1	AA	133	U	N1-C2	5.71	1.43	1.38
26	BB	532	A	N9-C4	5.71	1.41	1.37
26	BB	1199	U	C2-O2	5.71	1.27	1.22
26	BB	1340	U	N1-C2	5.71	1.43	1.38
26	BB	2057	G	C5'-C4'	5.71	1.58	1.51
1	AA	139	A	P-O5'	5.71	1.65	1.59
1	AA	389	A	C5-C4	-5.71	1.34	1.38
1	AA	520	A	N9-C4	-5.71	1.34	1.37
1	AA	681	A	C5-C4	-5.71	1.34	1.38
26	BB	55	G	C4'-C3'	5.71	1.59	1.53
26	BB	493	G	C6-N1	-5.71	1.35	1.39
26	BB	520	G	C5-C6	5.71	1.48	1.42
26	BB	1555	G	C3'-C2'	5.71	1.59	1.52
26	BB	2130	U	C2-N3	5.71	1.41	1.37
1	AA	568	G	N3-C4	5.70	1.39	1.35
1	AA	673	A	N7-C5	-5.70	1.35	1.39
1	AA	723	U	P-O5'	5.70	1.65	1.59
1	AA	978	A	P-O5'	5.70	1.65	1.59
2	AB	62	U	C5-C6	5.70	1.39	1.34
26	BB	1031	G	C2'-O2'	5.70	1.49	1.41
26	BB	1209	U	C2-N3	5.70	1.41	1.37
26	BB	1535	A	C8-N7	5.70	1.35	1.31
26	BB	2867	G	N7-C5	-5.70	1.35	1.39
1	AA	44	A	C6-N6	-5.70	1.29	1.33
1	AA	292	G	C2-N3	5.70	1.37	1.32
1	AA	946	A	N9-C4	5.70	1.41	1.37
1	AA	1395	C	C5-C6	5.70	1.39	1.34
1	AA	1425	U	C5'-C4'	5.70	1.58	1.51
2	AB	47	U	C4'-C3'	5.70	1.59	1.53
1	AA	270	A	C4'-O4'	-5.70	1.38	1.45
1	AA	804	U	C3'-C2'	5.70	1.59	1.52
1	AA	1186	G	C4'-O4'	-5.70	1.38	1.45
1	AA	1188	A	O4'-C1'	5.70	1.49	1.41
26	BB	453	A	C5'-C4'	5.70	1.58	1.51
26	BB	565	C	C2-O2	-5.70	1.19	1.24
26	BB	1091	G	N3-C4	-5.70	1.31	1.35
26	BB	1654	A	N1-C2	-5.70	1.29	1.34
26	BB	2482	A	P-O5'	5.70	1.65	1.59
26	BB	2516	A	C6-N6	5.70	1.38	1.33
26	BB	2847	U	P-O5'	5.70	1.65	1.59
38	BN	132	ARG	CZ-NH2	5.70	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	340	U	C2-N3	5.70	1.41	1.37
1	AA	852	G	C8-N7	-5.70	1.27	1.30
1	AA	862	C	N1-C2	5.70	1.45	1.40
25	BA	42	C	C4-N4	5.70	1.39	1.33
26	BB	516	C	O3'-P	5.70	1.68	1.61
26	BB	1019	U	C2-N3	5.70	1.41	1.37
26	BB	1041	G	N1-C2	5.70	1.42	1.37
26	BB	1139	G	N3-C4	-5.70	1.31	1.35
1	AA	1006	G	C6-N1	5.70	1.43	1.39
2	AB	10	G	N3-C4	5.70	1.39	1.35
26	BB	41	C	C2-O2	-5.70	1.19	1.24
26	BB	111	A	P-O5'	5.70	1.65	1.59
26	BB	844	A	N1-C2	-5.70	1.29	1.34
1	AA	954	G	C6-N1	5.70	1.43	1.39
1	AA	1127	G	C2'-C1'	-5.70	1.47	1.53
1	AA	1462	C	N1-C6	5.70	1.40	1.37
25	BA	58	A	C5'-C4'	5.70	1.58	1.51
26	BB	38	A	N7-C5	5.70	1.42	1.39
26	BB	687	C	C3'-C2'	5.70	1.59	1.52
26	BB	717	C	P-O5'	5.70	1.65	1.59
26	BB	1469	A	C5'-C4'	5.70	1.58	1.51
26	BB	1532	A	C5-C6	5.70	1.46	1.41
26	BB	1739	A	N3-C4	-5.70	1.31	1.34
26	BB	1891	G	C3'-C2'	5.70	1.59	1.52
26	BB	2082	A	C6-N6	5.70	1.38	1.33
26	BB	2253	G	N7-C5	-5.70	1.35	1.39
26	BB	2274	A	C5-C4	5.70	1.42	1.38
1	AA	473	U	C4'-O4'	-5.69	1.38	1.45
1	AA	573	A	N7-C5	5.69	1.42	1.39
1	AA	835	U	N1-C2	5.69	1.43	1.38
26	BB	364	C	C2'-O2'	-5.69	1.34	1.41
26	BB	1447	C	C4-C5	5.69	1.47	1.43
26	BB	2744	G	C3'-C2'	5.69	1.59	1.52
1	AA	22	G	N7-C5	-5.69	1.35	1.39
1	AA	347	G	C5-C4	-5.69	1.34	1.38
1	AA	503	C	N3-C4	5.69	1.38	1.33
1	AA	1015	G	C2-N3	5.69	1.37	1.32
1	AA	1504	G	O3'-P	5.69	1.68	1.61
26	BB	494	G	C2-N3	5.69	1.37	1.32
26	BB	1113	U	C5'-C4'	5.69	1.58	1.51
1	AA	122	G	C8-N7	5.69	1.34	1.30
1	AA	500	G	P-O5'	5.69	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	762	U	C4-O4	5.69	1.28	1.23
1	AA	809	G	N1-C2	5.69	1.42	1.37
26	BB	284	U	C4-O4	5.69	1.28	1.23
1	AA	252	U	C4'-O4'	-5.69	1.38	1.45
1	AA	633	G	O3'-P	-5.69	1.54	1.61
26	BB	1004	U	N1-C6	5.69	1.43	1.38
26	BB	1160	G	N9-C4	-5.69	1.33	1.38
26	BB	1266	G	C3'-C2'	-5.69	1.46	1.52
1	AA	85	U	C2-N3	5.69	1.41	1.37
1	AA	259	G	C5'-C4'	5.69	1.58	1.51
1	AA	917	G	C2'-C1'	5.69	1.59	1.53
26	BB	315	G	C6-N1	-5.69	1.35	1.39
26	BB	396	G	N3-C4	-5.69	1.31	1.35
26	BB	1038	G	C5'-C4'	5.69	1.58	1.51
26	BB	1630	A	O3'-P	5.69	1.68	1.61
26	BB	2086	U	C4'-C3'	-5.69	1.46	1.52
26	BB	2505	G	C4'-C3'	5.69	1.59	1.53
26	BB	2736	A	C5-C6	5.69	1.46	1.41
1	AA	121	U	C3'-C2'	5.69	1.59	1.52
26	BB	158	U	C4'-C3'	5.69	1.59	1.53
26	BB	805	G	N7-C5	-5.69	1.35	1.39
26	BB	2669	G	C2-N3	5.69	1.37	1.32
1	AA	619	U	P-O5'	5.68	1.65	1.59
1	AA	698	G	C5-C4	-5.68	1.34	1.38
1	AA	1159	U	C2-O2	5.68	1.27	1.22
2	AB	27	C	C5-C6	5.68	1.38	1.34
26	BB	636	G	P-O5'	5.68	1.65	1.59
26	BB	851	C	C4-C5	5.68	1.47	1.43
26	BB	1867	G	C4'-C3'	-5.68	1.46	1.52
1	AA	67	C	C2'-C1'	5.68	1.59	1.53
1	AA	112	G	N1-C2	5.68	1.42	1.37
1	AA	240	G	N1-C2	5.68	1.42	1.37
1	AA	1238	A	N7-C5	-5.68	1.35	1.39
26	BB	587	C	C5-C6	5.68	1.38	1.34
26	BB	1565	C	C2-O2	-5.68	1.19	1.24
26	BB	2037	A	P-O5'	5.68	1.65	1.59
1	AA	1529	G	C2'-C1'	5.68	1.59	1.53
26	BB	32	C	C5'-C4'	5.68	1.58	1.51
26	BB	477	A	N7-C5	-5.68	1.35	1.39
26	BB	498	G	C6-N1	-5.68	1.35	1.39
26	BB	499	U	C2-N3	5.68	1.41	1.37
26	BB	1940	U	N3-C4	5.68	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	79	G	N9-C4	5.68	1.42	1.38
1	AA	607	A	C5-C6	5.68	1.46	1.41
1	AA	856	C	C2'-O2'	5.68	1.49	1.41
1	AA	856	C	C5-C6	5.68	1.38	1.34
1	AA	1298	U	C5'-C4'	5.68	1.58	1.51
11	AK	59	GLU	CD-OE2	-5.68	1.19	1.25
25	BA	118	C	P-O5'	5.68	1.65	1.59
26	BB	58	G	C3'-C2'	5.68	1.59	1.52
26	BB	325	G	C2'-O2'	-5.68	1.34	1.41
26	BB	876	C	O4'-C1'	5.68	1.49	1.41
26	BB	1541	C	P-O5'	5.68	1.65	1.59
26	BB	2481	G	P-O5'	5.68	1.65	1.59
26	BB	1047	G	N9-C8	5.68	1.41	1.37
26	BB	1754	A	C6-N6	5.68	1.38	1.33
1	AA	274	A	C5-C6	5.68	1.46	1.41
1	AA	842	U	C4-O4	-5.68	1.19	1.23
3	AC	41	A	C4'-O4'	-5.68	1.38	1.45
26	BB	135	U	C5'-C4'	5.68	1.58	1.51
26	BB	916	G	C6-O6	5.68	1.29	1.24
26	BB	1428	C	C4'-C3'	-5.68	1.46	1.52
26	BB	2033	A	C2'-C1'	-5.68	1.47	1.53
26	BB	2561	U	C2-N3	5.68	1.41	1.37
1	AA	540	G	P-O5'	5.67	1.65	1.59
1	AA	759	A	N9-C4	-5.67	1.34	1.37
1	AA	1171	A	P-O5'	5.67	1.65	1.59
1	AA	1295	U	C5'-C4'	5.67	1.58	1.51
26	BB	241	A	C4'-O4'	-5.67	1.38	1.45
26	BB	531	C	N1-C6	5.67	1.40	1.37
26	BB	808	G	C2-N3	5.67	1.37	1.32
26	BB	1000	A	C5-C4	-5.67	1.34	1.38
26	BB	2003	A	N1-C2	-5.67	1.29	1.34
26	BB	2110	G	N3-C4	5.67	1.39	1.35
26	BB	2597	G	P-O5'	5.67	1.65	1.59
26	BB	2699	C	O3'-P	5.67	1.68	1.61
1	AA	125	U	C2-N3	-5.67	1.33	1.37
1	AA	1534	A	C8-N7	-5.67	1.27	1.31
26	BB	66	C	C2'-O2'	5.67	1.49	1.41
26	BB	295	G	N1-C2	5.67	1.42	1.37
26	BB	363	G	N9-C4	5.67	1.42	1.38
26	BB	1613	G	N7-C5	5.67	1.42	1.39
1	AA	81	A	P-O5'	5.67	1.65	1.59
1	AA	483	C	N3-C4	5.67	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	802	A	P-O5'	5.67	1.65	1.59
1	AA	1134	G	O4'-C1'	5.67	1.49	1.41
25	BA	88	C	C4'-O4'	-5.67	1.38	1.45
26	BB	804	A	O3'-P	5.67	1.68	1.61
26	BB	1156	A	C5'-C4'	5.67	1.58	1.51
26	BB	2054	A	C2-N3	5.67	1.38	1.33
1	AA	580	C	N1-C2	-5.67	1.34	1.40
25	BA	92	C	C4-C5	-5.67	1.38	1.43
26	BB	856	G	N3-C4	5.67	1.39	1.35
26	BB	2287	A	C4'-O4'	-5.67	1.38	1.45
26	BB	2542	A	C5'-C4'	5.67	1.58	1.51
26	BB	2903	U	P-O5'	5.67	1.65	1.59
1	AA	432	A	C5'-C4'	5.67	1.58	1.51
1	AA	547	A	P-O5'	5.67	1.65	1.59
1	AA	568	G	C4'-C3'	-5.67	1.46	1.52
1	AA	758	C	O3'-P	5.67	1.68	1.61
1	AA	917	G	C4'-O4'	-5.67	1.38	1.45
1	AA	1432	G	N9-C4	5.67	1.42	1.38
25	BA	76	G	C2-N3	5.67	1.37	1.32
26	BB	309	A	C5'-C4'	5.67	1.58	1.51
26	BB	594	U	N1-C6	-5.67	1.32	1.38
26	BB	685	A	C5-C6	5.67	1.46	1.41
26	BB	689	A	C5'-C4'	5.67	1.58	1.51
26	BB	1003	G	C4'-O4'	-5.67	1.38	1.45
26	BB	1239	G	C4'-C3'	-5.67	1.46	1.52
26	BB	2693	G	N9-C8	5.67	1.41	1.37
26	BB	956	G	C8-N7	-5.67	1.27	1.30
26	BB	1296	G	C6-O6	-5.67	1.19	1.24
26	BB	1749	A	C5-C6	5.67	1.46	1.41
26	BB	2259	U	C2-N3	5.67	1.41	1.37
26	BB	2610	C	C5-C6	5.67	1.38	1.34
26	BB	2828	G	N7-C5	-5.67	1.35	1.39
1	AA	239	U	O5'-C5'	-5.67	1.33	1.42
1	AA	497	G	P-O5'	-5.67	1.54	1.59
1	AA	1200	C	C3'-O3'	5.67	1.50	1.42
1	AA	599	C	C5'-C4'	5.66	1.58	1.51
1	AA	1307	U	O3'-P	5.66	1.68	1.61
26	BB	77	G	C3'-C2'	-5.66	1.46	1.52
26	BB	1558	C	C3'-O3'	5.66	1.50	1.42
26	BB	1799	G	N9-C8	-5.66	1.33	1.37
26	BB	2071	A	C6-N6	5.66	1.38	1.33
26	BB	2483	C	C2-O2	-5.66	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1159	U	N1-C2	5.66	1.43	1.38
3	AC	57	C	C5-C6	5.66	1.38	1.34
26	BB	1727	C	N1-C6	5.66	1.40	1.37
26	BB	1780	A	N3-C4	5.66	1.38	1.34
1	AA	212	G	N9-C4	5.66	1.42	1.38
1	AA	262	A	C4'-O4'	-5.66	1.38	1.45
1	AA	363	A	N9-C8	5.66	1.42	1.37
1	AA	404	G	C8-N7	-5.66	1.27	1.30
1	AA	487	A	O3'-P	5.66	1.68	1.61
1	AA	1233	G	N1-C2	5.66	1.42	1.37
1	AA	1504	G	C2-N3	5.66	1.37	1.32
26	BB	160	A	P-O5'	5.66	1.65	1.59
26	BB	556	A	C6-N6	-5.66	1.29	1.33
26	BB	2001	C	C2'-C1'	5.66	1.59	1.53
26	BB	2212	A	C5'-C4'	5.66	1.58	1.51
26	BB	2615	U	P-O5'	5.66	1.65	1.59
1	AA	555	U	O4'-C1'	5.66	1.49	1.41
1	AA	1339	A	N9-C8	-5.66	1.33	1.37
26	BB	149	A	N1-C2	-5.66	1.29	1.34
26	BB	716	A	C6-N1	5.66	1.39	1.35
26	BB	1279	G	N1-C2	5.66	1.42	1.37
26	BB	1337	G	C2-N3	5.66	1.37	1.32
26	BB	1742	U	O3'-P	5.66	1.68	1.61
26	BB	1756	G	N7-C5	5.66	1.42	1.39
1	AA	627	G	N9-C8	-5.66	1.33	1.37
26	BB	501	A	N9-C4	5.66	1.41	1.37
2	AB	21	A	N7-C5	5.66	1.42	1.39
26	BB	1041	G	N3-C4	5.66	1.39	1.35
26	BB	1682	G	C4'-O4'	-5.66	1.38	1.45
26	BB	2053	G	C6-N1	5.66	1.43	1.39
26	BB	2116	G	C4'-O4'	-5.66	1.38	1.45
26	BB	2743	U	N1-C2	5.66	1.43	1.38
26	BB	2824	C	C4-C5	5.66	1.47	1.43
1	AA	1024	G	C6-N1	5.65	1.43	1.39
26	BB	656	G	C5-C4	-5.65	1.34	1.38
26	BB	1656	C	N1-C2	5.65	1.45	1.40
1	AA	301	G	P-O5'	5.65	1.65	1.59
1	AA	565	U	C5'-C4'	5.65	1.58	1.51
1	AA	782	A	C5-C4	-5.65	1.34	1.38
25	BA	53	A	N3-C4	5.65	1.38	1.34
26	BB	36	G	N7-C5	-5.65	1.35	1.39
26	BB	2233	U	C4-C5	5.65	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	46	G	C1'-N9	5.65	1.57	1.48
1	AA	667	G	C5-C4	-5.65	1.34	1.38
1	AA	1261	A	C4'-C3'	-5.65	1.47	1.52
2	AB	60	U	C2-N3	5.65	1.41	1.37
26	BB	299	A	N7-C5	-5.65	1.35	1.39
26	BB	370	G	O4'-C1'	5.65	1.49	1.41
26	BB	1741	C	C5-C6	5.65	1.38	1.34
26	BB	2297	A	N1-C2	-5.65	1.29	1.34
26	BB	2206	C	C5-C6	5.65	1.38	1.34
1	AA	338	A	N3-C4	5.65	1.38	1.34
1	AA	431	A	C5'-C4'	5.65	1.58	1.51
26	BB	3	U	C4-C5	5.65	1.48	1.43
26	BB	1198	U	N1-C2	5.65	1.43	1.38
26	BB	1266	G	P-O5'	-5.65	1.54	1.59
26	BB	1488	C	N3-C4	-5.65	1.29	1.33
26	BB	2598	A	C5'-C4'	5.65	1.58	1.51
1	AA	302	G	N1-C2	5.64	1.42	1.37
1	AA	580	C	C4-C5	5.64	1.47	1.43
1	AA	1206	G	N1-C2	5.64	1.42	1.37
1	AA	1493	A	N9-C8	-5.64	1.33	1.37
26	BB	384	A	C2-N3	-5.64	1.28	1.33
26	BB	398	C	O3'-P	5.64	1.68	1.61
26	BB	542	C	C4-N4	5.64	1.39	1.33
26	BB	1028	A	C4'-C3'	-5.64	1.47	1.52
26	BB	1114	C	C5-C6	5.64	1.38	1.34
26	BB	1791	A	N7-C5	-5.64	1.35	1.39
26	BB	1868	C	C5'-C4'	5.64	1.58	1.51
26	BB	2300	C	N3-C4	5.64	1.38	1.33
26	BB	2345	G	N7-C5	5.64	1.42	1.39
26	BB	2437	G	C3'-C2'	5.64	1.59	1.52
26	BB	2521	C	N3-C4	5.64	1.38	1.33
1	AA	196	A	N1-C2	5.64	1.39	1.34
1	AA	796	C	C4'-O4'	-5.64	1.38	1.45
1	AA	1149	C	C4'-C3'	-5.64	1.47	1.52
26	BB	306	U	C4-O4	-5.64	1.19	1.23
26	BB	439	A	C4'-O4'	-5.64	1.38	1.45
26	BB	670	A	C5-C4	5.64	1.42	1.38
26	BB	1261	C	C5-C6	5.64	1.38	1.34
26	BB	1989	G	N7-C5	-5.64	1.35	1.39
1	AA	1272	G	C3'-O3'	-5.64	1.34	1.42
26	BB	14	A	N9-C8	5.64	1.42	1.37
26	BB	738	G	C6-N1	-5.64	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	800	G	C2-N3	5.64	1.37	1.32
1	AA	811	C	P-O5'	5.64	1.65	1.59
1	AA	887	G	C8-N7	-5.64	1.27	1.30
1	AA	1124	G	C2-N3	5.64	1.37	1.32
26	BB	223	A	C3'-O3'	5.64	1.50	1.42
26	BB	367	G	C8-N7	-5.64	1.27	1.30
26	BB	1776	G	C2-N3	5.64	1.37	1.32
26	BB	2806	C	N3-C4	-5.64	1.30	1.33
26	BB	1736	U	C3'-C2'	5.64	1.59	1.52
26	BB	2206	C	C2-O2	-5.64	1.19	1.24
1	AA	19	A	C5-C6	5.64	1.46	1.41
1	AA	108	G	P-O5'	5.64	1.65	1.59
1	AA	264	C	N1-C6	5.64	1.40	1.37
1	AA	933	G	N9-C8	5.64	1.41	1.37
1	AA	1079	G	C5'-C4'	5.64	1.58	1.51
1	AA	1509	C	N1-C2	5.64	1.45	1.40
26	BB	152	A	N1-C2	5.64	1.39	1.34
26	BB	225	C	C2-O2	-5.64	1.19	1.24
26	BB	227	A	O4'-C1'	5.64	1.49	1.41
26	BB	384	A	C4'-O4'	-5.64	1.38	1.45
26	BB	1155	A	C4'-O4'	-5.64	1.38	1.45
26	BB	1609	A	C8-N7	-5.64	1.27	1.31
26	BB	1960	A	N9-C4	5.64	1.41	1.37
1	AA	149	A	P-O5'	5.63	1.65	1.59
1	AA	519	C	O3'-P	5.63	1.68	1.61
1	AA	1088	G	C2-N3	5.63	1.37	1.32
1	AA	1386	G	O4'-C1'	-5.63	1.34	1.41
26	BB	437	U	C4'-O4'	-5.63	1.38	1.45
26	BB	690	G	C4'-C3'	-5.63	1.47	1.52
26	BB	880	G	N9-C4	-5.63	1.33	1.38
26	BB	1821	A	N9-C4	5.63	1.41	1.37
26	BB	2768	U	O5'-C5'	-5.63	1.33	1.42
1	AA	96	U	C2-N3	5.63	1.41	1.37
1	AA	337	G	C5-C4	-5.63	1.34	1.38
1	AA	823	C	C2-N3	5.63	1.40	1.35
1	AA	1390	U	P-O5'	5.63	1.65	1.59
26	BB	130	C	O3'-P	5.63	1.68	1.61
26	BB	1400	U	O3'-P	5.63	1.68	1.61
1	AA	320	A	O3'-P	5.63	1.68	1.61
1	AA	473	U	C3'-C2'	5.63	1.59	1.52
1	AA	529	G	N1-C2	5.63	1.42	1.37
1	AA	671	G	C8-N7	-5.63	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	21	G	C6-N1	5.63	1.43	1.39
26	BB	8	C	N1-C6	5.63	1.40	1.37
26	BB	662	G	P-O5'	5.63	1.65	1.59
26	BB	707	G	N3-C4	5.63	1.39	1.35
26	BB	1102	C	N3-C4	5.63	1.37	1.33
26	BB	1244	A	N3-C4	5.63	1.38	1.34
26	BB	1760	C	N1-C6	5.63	1.40	1.37
26	BB	2235	G	C2-N3	5.63	1.37	1.32
26	BB	2436	G	N9-C8	5.63	1.41	1.37
26	BB	1810	A	C8-N7	-5.63	1.27	1.31
26	BB	2119	A	C6-N1	5.63	1.39	1.35
26	BB	2819	G	N7-C5	5.63	1.42	1.39
1	AA	133	U	N3-C4	-5.63	1.33	1.38
1	AA	858	G	N1-C2	5.63	1.42	1.37
1	AA	991	U	N1-C2	5.63	1.43	1.38
4	AD	50	G	C6-N1	5.63	1.43	1.39
26	BB	483	A	N7-C5	-5.63	1.35	1.39
26	BB	782	A	N9-C4	5.63	1.41	1.37
26	BB	1867	G	C2'-O2'	5.63	1.49	1.41
26	BB	2123	G	N1-C2	-5.63	1.33	1.37
26	BB	2278	A	C5-C4	5.63	1.42	1.38
26	BB	2338	C	C4-C5	5.63	1.47	1.43
26	BB	2846	G	C2'-O2'	-5.63	1.34	1.41
1	AA	709	U	O3'-P	-5.63	1.54	1.61
4	AD	4	G	C6-O6	-5.63	1.19	1.24
26	BB	171	U	C1'-N1	5.63	1.57	1.48
26	BB	285	G	P-O5'	-5.63	1.54	1.59
26	BB	1036	G	N7-C5	-5.63	1.35	1.39
26	BB	1636	U	P-O5'	5.63	1.65	1.59
1	AA	872	A	N3-C4	5.62	1.38	1.34
1	AA	975	A	N3-C4	5.62	1.38	1.34
1	AA	1235	U	O5'-C5'	-5.62	1.33	1.42
1	AA	1333	A	C8-N7	-5.62	1.27	1.31
26	BB	2420	C	C5-C6	5.62	1.38	1.34
1	AA	83	C	C2-N3	5.62	1.40	1.35
1	AA	187	G	C6-N1	5.62	1.43	1.39
1	AA	275	G	C2-N3	5.62	1.37	1.32
1	AA	478	A	O4'-C1'	5.62	1.49	1.41
25	BA	35	C	P-O5'	5.62	1.65	1.59
26	BB	121	G	O3'-P	5.62	1.67	1.61
26	BB	175	G	C8-N7	-5.62	1.27	1.30
26	BB	744	U	N1-C2	5.62	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1980	G	N1-C2	5.62	1.42	1.37
26	BB	2089	C	C2'-C1'	5.62	1.59	1.53
26	BB	2218	G	C6-O6	-5.62	1.19	1.24
26	BB	2671	G	C6-N1	5.62	1.43	1.39
1	AA	925	G	N9-C4	5.62	1.42	1.38
1	AA	969	A	C2'-C1'	-5.62	1.47	1.53
1	AA	1131	G	N7-C5	5.62	1.42	1.39
25	BA	13	G	C8-N7	-5.62	1.27	1.30
25	BA	16	G	C4'-C3'	5.62	1.59	1.53
26	BB	548	G	N1-C2	5.62	1.42	1.37
26	BB	921	C	N3-C4	5.62	1.37	1.33
26	BB	1868	C	C4'-O4'	-5.62	1.38	1.45
26	BB	1959	G	C5-C4	-5.62	1.34	1.38
26	BB	2136	G	C4'-O4'	-5.62	1.38	1.45
26	BB	2714	G	C6-N1	-5.62	1.35	1.39
1	AA	270	A	N9-C8	5.62	1.42	1.37
25	BA	68	C	C2-N3	5.62	1.40	1.35
26	BB	662	G	C4'-O4'	-5.62	1.38	1.45
26	BB	2144	G	P-O5'	5.62	1.65	1.59
1	AA	399	G	C6-N1	5.62	1.43	1.39
1	AA	1109	C	C2'-C1'	5.62	1.59	1.53
1	AA	1500	A	C8-N7	-5.62	1.27	1.31
26	BB	566	U	C5'-C4'	5.62	1.58	1.51
26	BB	865	C	N3-C4	5.62	1.37	1.33
26	BB	1350	C	C2-N3	-5.62	1.31	1.35
26	BB	1447	C	P-O5'	5.62	1.65	1.59
26	BB	1472	C	C4'-O4'	-5.62	1.38	1.45
26	BB	1702	G	N9-C8	5.62	1.41	1.37
26	BB	2426	A	C5-C4	5.62	1.42	1.38
1	AA	247	G	C4'-O4'	-5.62	1.38	1.45
19	AS	24	SER	CB-OG	5.62	1.49	1.42
26	BB	60	G	C4'-O4'	-5.62	1.38	1.45
26	BB	1198	U	P-O5'	5.62	1.65	1.59
26	BB	1302	A	C8-N7	-5.62	1.27	1.31
2	AB	39	A	N9-C4	-5.62	1.34	1.37
26	BB	479	A	N7-C5	-5.62	1.35	1.39
26	BB	504	A	N3-C4	5.62	1.38	1.34
26	BB	1910	G	N7-C5	-5.62	1.35	1.39
26	BB	2399	G	N1-C2	5.62	1.42	1.37
1	AA	351	G	C5'-C4'	5.61	1.58	1.51
25	BA	66	A	C4'-O4'	-5.61	1.38	1.45
26	BB	181	A	C5'-C4'	5.61	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	413	C	N1-C6	5.61	1.40	1.37
26	BB	1249	U	P-O5'	5.61	1.65	1.59
26	BB	1459	G	C4'-C3'	5.61	1.59	1.53
26	BB	2328	A	C4'-O4'	-5.61	1.38	1.45
26	BB	2373	G	N7-C5	-5.61	1.35	1.39
26	BB	2530	A	C6-N1	5.61	1.39	1.35
26	BB	2581	G	P-O5'	5.61	1.65	1.59
1	AA	321	A	O3'-P	5.61	1.67	1.61
26	BB	1450	G	C6-N1	-5.61	1.35	1.39
26	BB	1725	U	P-O5'	5.61	1.65	1.59
26	BB	2163	A	C5-C4	-5.61	1.34	1.38
26	BB	2195	U	P-O5'	5.61	1.65	1.59
26	BB	2276	G	C5'-C4'	5.61	1.58	1.51
26	BB	2299	U	C4-C5	5.61	1.48	1.43
26	BB	2894	G	C5-C6	5.61	1.48	1.42
1	AA	443	C	O3'-P	5.61	1.67	1.61
1	AA	882	C	C4-N4	5.61	1.39	1.33
1	AA	1021	A	N7-C5	5.61	1.42	1.39
25	BA	59	A	N7-C5	-5.61	1.35	1.39
26	BB	743	A	C4'-O4'	-5.61	1.38	1.45
26	BB	1198	U	C2-N3	5.61	1.41	1.37
26	BB	1475	G	C8-N7	5.61	1.34	1.30
26	BB	1482	G	N9-C8	-5.61	1.33	1.37
26	BB	1784	A	N1-C2	5.61	1.39	1.34
26	BB	1842	G	N9-C8	5.61	1.41	1.37
26	BB	2628	C	N1-C6	5.61	1.40	1.37
26	BB	2697	G	C6-N1	5.61	1.43	1.39
40	BP	8	ARG	CZ-NH1	5.61	1.40	1.33
1	AA	366	A	C2-N3	5.61	1.38	1.33
1	AA	927	G	N1-C2	-5.61	1.33	1.37
26	BB	399	U	C4-C5	5.61	1.48	1.43
26	BB	1088	A	N3-C4	5.61	1.38	1.34
26	BB	1222	U	P-O5'	5.61	1.65	1.59
26	BB	1363	C	C4-N4	5.61	1.39	1.33
26	BB	1547	C	C2'-C1'	5.61	1.59	1.53
1	AA	630	A	C6-N6	5.61	1.38	1.33
1	AA	928	G	P-O5'	5.61	1.65	1.59
26	BB	23	G	C8-N7	5.61	1.34	1.30
26	BB	1193	G	N7-C5	-5.61	1.35	1.39
26	BB	1231	U	C5-C6	5.61	1.39	1.34
26	BB	1471	G	C2-N3	5.61	1.37	1.32
26	BB	1556	C	C5-C6	5.61	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1978	A	O4'-C1'	5.61	1.49	1.41
26	BB	2016	U	C5'-C4'	5.61	1.58	1.51
48	BX	11	GLU	CG-CD	5.61	1.60	1.51
1	AA	83	C	N1-C2	5.61	1.45	1.40
1	AA	274	A	C6-N1	5.61	1.39	1.35
1	AA	1092	A	N9-C4	-5.61	1.34	1.37
26	BB	105	C	N1-C6	5.61	1.40	1.37
26	BB	247	G	C5-C4	5.61	1.42	1.38
26	BB	725	G	N1-C2	5.61	1.42	1.37
26	BB	904	G	N1-C2	5.61	1.42	1.37
26	BB	943	A	N9-C8	5.61	1.42	1.37
26	BB	953	G	N9-C4	-5.61	1.33	1.38
26	BB	1057	A	C5-C4	-5.61	1.34	1.38
54	B3	39	ARG	NE-CZ	5.61	1.40	1.33
1	AA	500	G	C5-C4	-5.60	1.34	1.38
1	AA	715	A	P-O5'	5.60	1.65	1.59
26	BB	940	G	N3-C4	5.60	1.39	1.35
26	BB	1213	A	C3'-C2'	5.60	1.59	1.52
26	BB	1459	G	N9-C4	5.60	1.42	1.38
26	BB	2495	G	N9-C8	-5.60	1.33	1.37
26	BB	2496	C	C4-N4	5.60	1.39	1.33
1	AA	407	U	P-O5'	-5.60	1.54	1.59
1	AA	602	A	C6-N6	5.60	1.38	1.33
1	AA	705	G	C5'-C4'	5.60	1.58	1.51
1	AA	1079	G	C2'-O2'	-5.60	1.34	1.41
1	AA	1462	C	C3'-C2'	5.60	1.59	1.52
4	AD	45	A	C5'-C4'	5.60	1.58	1.51
25	BA	44	G	C8-N7	5.60	1.34	1.30
26	BB	241	A	O4'-C1'	5.60	1.49	1.41
26	BB	429	A	C6-N1	-5.60	1.31	1.35
26	BB	441	U	N1-C2	5.60	1.43	1.38
26	BB	818	G	N9-C4	5.60	1.42	1.38
26	BB	1436	G	N9-C8	-5.60	1.33	1.37
26	BB	1690	A	C2'-C1'	5.60	1.59	1.53
26	BB	1724	G	N9-C8	-5.60	1.33	1.37
26	BB	1986	C	C2-N3	5.60	1.40	1.35
26	BB	1989	G	C4'-O4'	-5.60	1.38	1.45
26	BB	2801	G	P-O5'	5.60	1.65	1.59
26	BB	2813	A	C4'-O4'	-5.60	1.38	1.45
1	AA	164	G	C8-N7	-5.60	1.27	1.30
25	BA	22	U	C5'-C4'	5.60	1.58	1.51
26	BB	9	G	C5-C4	-5.60	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	983	A	C5-C4	-5.60	1.34	1.38
26	BB	1421	G	P-O5'	5.60	1.65	1.59
26	BB	2351	G	P-O5'	-5.60	1.54	1.59
26	BB	2398	U	C4'-C3'	5.60	1.59	1.53
1	AA	114	U	C5'-C4'	5.60	1.58	1.51
1	AA	614	C	P-O5'	-5.60	1.54	1.59
1	AA	703	G	N9-C8	-5.60	1.33	1.37
1	AA	1320	C	C3'-C2'	-5.60	1.46	1.52
3	AC	35	G	C2-N3	5.60	1.37	1.32
26	BB	1517	G	P-O5'	5.60	1.65	1.59
26	BB	2534	A	C5'-C4'	5.60	1.58	1.51
26	BB	2550	G	N9-C4	5.60	1.42	1.38
26	BB	2643	G	N9-C8	-5.60	1.33	1.37
26	BB	2689	U	P-O5'	-5.60	1.54	1.59
1	AA	180	U	C2-N3	5.60	1.41	1.37
1	AA	854	U	C2-N3	5.60	1.41	1.37
1	AA	1083	U	C5'-C4'	5.60	1.58	1.51
26	BB	380	G	O4'-C1'	5.60	1.49	1.41
26	BB	618	G	C3'-C2'	5.60	1.59	1.52
26	BB	1330	C	C4'-O4'	-5.60	1.38	1.45
26	BB	1426	G	N7-C5	-5.60	1.35	1.39
26	BB	1729	U	C5-C6	5.60	1.39	1.34
26	BB	2309	A	N3-C4	5.60	1.38	1.34
26	BB	2396	G	C8-N7	-5.60	1.27	1.30
26	BB	2898	U	C2'-C1'	5.60	1.59	1.53
1	AA	212	G	C5'-C4'	5.60	1.58	1.51
1	AA	958	A	P-O5'	5.60	1.65	1.59
1	AA	1223	C	C2-N3	5.60	1.40	1.35
25	BA	53	A	C3'-C2'	5.60	1.59	1.52
26	BB	30	G	C5-C4	-5.60	1.34	1.38
26	BB	647	G	C2-N2	5.60	1.40	1.34
26	BB	931	U	O3'-P	-5.60	1.54	1.61
26	BB	1027	A	C3'-O3'	5.60	1.50	1.42
26	BB	2047	C	C2'-O2'	-5.60	1.34	1.41
26	BB	2636	C	C4-C5	-5.60	1.38	1.43
1	AA	1377	A	C4'-C3'	5.59	1.59	1.53
26	BB	127	A	P-O5'	5.59	1.65	1.59
26	BB	160	A	N3-C4	5.59	1.38	1.34
26	BB	587	C	O3'-P	5.59	1.67	1.61
26	BB	723	C	C2-N3	5.59	1.40	1.35
26	BB	1070	A	C5-C6	-5.59	1.36	1.41
26	BB	1403	A	P-O5'	5.59	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1405	U	C5-C6	5.59	1.39	1.34
26	BB	1514	G	N1-C2	5.59	1.42	1.37
26	BB	1897	G	N1-C2	5.59	1.42	1.37
26	BB	2138	G	N7-C5	5.59	1.42	1.39
26	BB	2516	A	C4'-O4'	-5.59	1.38	1.45
1	AA	638	U	O4'-C1'	5.59	1.49	1.41
1	AA	920	U	N1-C2	5.59	1.43	1.38
1	AA	1372	U	C2-N3	5.59	1.41	1.37
11	AK	57	GLU	CB-CG	5.59	1.62	1.52
26	BB	696	G	N3-C4	5.59	1.39	1.35
26	BB	948	C	C4'-O4'	-5.59	1.38	1.45
26	BB	1794	A	C8-N7	-5.59	1.27	1.31
26	BB	2573	C	P-O5'	5.59	1.65	1.59
1	AA	921	U	C3'-C2'	5.59	1.59	1.52
1	AA	1077	G	P-O5'	5.59	1.65	1.59
4	AD	47	A	N9-C4	-5.59	1.34	1.37
26	BB	427	U	O4'-C1'	5.59	1.49	1.41
26	BB	1492	G	C3'-C2'	5.59	1.59	1.52
26	BB	1783	A	C5-C6	5.59	1.46	1.41
26	BB	2118	U	C2-N3	5.59	1.41	1.37
26	BB	2521	C	N1-C6	5.59	1.40	1.37
1	AA	633	G	P-O5'	5.59	1.65	1.59
1	AA	658	C	C4'-O4'	-5.59	1.38	1.45
1	AA	1055	A	N7-C5	-5.59	1.35	1.39
26	BB	32	C	N3-C4	-5.59	1.30	1.33
26	BB	340	A	C1'-N9	5.59	1.57	1.48
26	BB	368	A	C1'-N9	5.59	1.57	1.48
26	BB	594	U	C4-O4	5.59	1.28	1.23
26	BB	1614	A	C8-N7	-5.59	1.27	1.31
1	AA	748	G	C3'-C2'	-5.59	1.46	1.52
1	AA	1297	G	N9-C8	-5.59	1.33	1.37
1	AA	1528	U	O4'-C1'	5.59	1.49	1.41
19	AS	31	ARG	NE-CZ	5.59	1.40	1.33
26	BB	416	U	C2-O2	-5.59	1.17	1.22
26	BB	906	U	O3'-P	5.59	1.67	1.61
26	BB	1596	A	P-O5'	5.59	1.65	1.59
1	AA	984	C	C2-N3	5.59	1.40	1.35
1	AA	1046	A	N7-C5	5.59	1.42	1.39
1	AA	1403	C	C4-N4	5.59	1.39	1.33
26	BB	399	U	C4-O4	5.59	1.28	1.23
26	BB	451	U	C5'-C4'	5.59	1.58	1.51
26	BB	776	G	N3-C4	5.59	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1185	G	C4'-O4'	-5.59	1.38	1.45
26	BB	1403	A	C4'-C3'	-5.59	1.47	1.52
26	BB	1590	A	C3'-C2'	5.59	1.59	1.52
26	BB	1791	A	N9-C8	5.59	1.42	1.37
26	BB	2113	U	P-O5'	5.59	1.65	1.59
26	BB	2248	C	C4-C5	5.59	1.47	1.43
26	BB	2477	U	N1-C6	-5.59	1.32	1.38
26	BB	2634	A	N9-C8	-5.59	1.33	1.37
26	BB	2784	U	C3'-C2'	-5.59	1.46	1.52
26	BB	2798	U	C5'-C4'	5.59	1.58	1.51
1	AA	74	A	C5-C4	-5.58	1.34	1.38
1	AA	737	C	P-O5'	-5.58	1.54	1.59
26	BB	5	A	N3-C4	5.58	1.38	1.34
26	BB	473	G	C4'-O4'	-5.58	1.38	1.45
26	BB	2156	G	C8-N7	-5.58	1.27	1.30
26	BB	2470	G	C6-N1	-5.58	1.35	1.39
26	BB	2562	U	C4'-O4'	-5.58	1.38	1.45
1	AA	316	C	C2-N3	5.58	1.40	1.35
1	AA	546	A	N1-C2	-5.58	1.29	1.34
1	AA	627	G	N9-C4	5.58	1.42	1.38
1	AA	690	G	C4'-O4'	-5.58	1.38	1.45
1	AA	853	C	C4-C5	5.58	1.47	1.43
1	AA	1153	G	C2'-C1'	5.58	1.59	1.53
1	AA	1352	C	P-O5'	5.58	1.65	1.59
26	BB	607	U	N1-C2	5.58	1.43	1.38
26	BB	1264	A	C5-C4	-5.58	1.34	1.38
26	BB	1360	G	N3-C4	-5.58	1.31	1.35
26	BB	1839	G	C5'-C4'	5.58	1.58	1.51
26	BB	2425	A	N3-C4	5.58	1.38	1.34
26	BB	2565	A	C2-N3	5.58	1.38	1.33
26	BB	2771	C	C2-N3	5.58	1.40	1.35
1	AA	43	C	C2-N3	5.58	1.40	1.35
3	AC	13	A	N9-C8	5.58	1.42	1.37
26	BB	268	C	C2'-C1'	5.58	1.59	1.53
26	BB	878	A	C4'-C3'	5.58	1.59	1.53
26	BB	899	A	C5-C4	-5.58	1.34	1.38
26	BB	1090	A	C2'-C1'	-5.58	1.47	1.53
26	BB	1213	A	O3'-P	-5.58	1.54	1.61
26	BB	1227	G	C2-N3	5.58	1.37	1.32
26	BB	1782	U	N1-C2	5.58	1.43	1.38
26	BB	1816	C	C3'-C2'	-5.58	1.46	1.52
26	BB	1933	G	C3'-C2'	5.58	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2007	U	C2'-C1'	5.58	1.59	1.53
3	AC	59	A	C2-N3	5.58	1.38	1.33
26	BB	672	C	C2-N3	5.58	1.40	1.35
26	BB	843	G	P-O5'	5.58	1.65	1.59
26	BB	1589	U	N1-C6	-5.58	1.32	1.38
26	BB	2166	U	P-O5'	5.58	1.65	1.59
26	BB	2447	G	C5'-C4'	5.58	1.58	1.51
1	AA	324	G	N1-C2	5.58	1.42	1.37
1	AA	666	G	C5'-C4'	5.58	1.58	1.51
1	AA	684	U	C4-O4	-5.58	1.19	1.23
1	AA	812	G	N3-C4	5.58	1.39	1.35
1	AA	975	A	P-O5'	-5.58	1.54	1.59
1	AA	1046	A	N3-C4	5.58	1.38	1.34
26	BB	365	U	O3'-P	5.58	1.67	1.61
26	BB	620	G	C4'-O4'	-5.58	1.38	1.45
26	BB	652	U	C5-C6	5.58	1.39	1.34
26	BB	735	A	N3-C4	5.58	1.38	1.34
26	BB	850	U	N3-C4	5.58	1.43	1.38
26	BB	1191	G	P-O5'	5.58	1.65	1.59
26	BB	2343	U	C4-C5	5.58	1.48	1.43
26	BB	2741	A	C1'-N9	5.58	1.57	1.48
54	B3	47	TYR	CB-CG	5.58	1.60	1.51
26	BB	150	U	C2'-C1'	5.58	1.59	1.53
26	BB	382	A	N3-C4	5.58	1.38	1.34
26	BB	603	A	C2'-C1'	-5.58	1.47	1.53
26	BB	1211	C	C4'-O4'	-5.58	1.38	1.45
26	BB	1596	A	C4'-O4'	-5.58	1.38	1.45
26	BB	1979	U	N3-C4	-5.58	1.33	1.38
26	BB	2160	C	C4'-O4'	-5.58	1.38	1.45
1	AA	463	U	C4-C5	5.58	1.48	1.43
1	AA	1129	C	N3-C4	5.58	1.37	1.33
1	AA	1467	C	C5'-C4'	5.58	1.58	1.51
1	AA	1485	U	C4-C5	5.58	1.48	1.43
26	BB	560	C	N3-C4	5.58	1.37	1.33
26	BB	994	C	N1-C6	-5.58	1.33	1.37
26	BB	1219	U	O4'-C1'	5.58	1.48	1.41
26	BB	1865	U	C4-C5	5.58	1.48	1.43
26	BB	2076	U	C5-C6	5.58	1.39	1.34
26	BB	2569	G	N9-C8	-5.58	1.33	1.37
26	BB	2599	G	C6-N1	5.58	1.43	1.39
26	BB	2644	G	N1-C2	5.58	1.42	1.37
1	AA	993	G	C4'-C3'	5.57	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	73	G	C4'-O4'	-5.57	1.38	1.45
3	AC	22	G	N3-C4	5.57	1.39	1.35
26	BB	744	U	C5-C6	5.57	1.39	1.34
26	BB	1209	U	C4-C5	5.57	1.48	1.43
26	BB	1215	G	C2'-C1'	5.57	1.59	1.53
26	BB	1838	C	N1-C6	5.57	1.40	1.37
26	BB	1860	G	N7-C5	5.57	1.42	1.39
26	BB	2225	A	N3-C4	5.57	1.38	1.34
26	BB	2440	C	C5-C6	5.57	1.38	1.34
26	BB	2787	C	C2-N3	5.57	1.40	1.35
26	BB	2829	A	N9-C4	-5.57	1.34	1.37
26	BB	2844	G	C2-N3	5.57	1.37	1.32
1	AA	148	G	P-O5'	5.57	1.65	1.59
1	AA	179	A	C4'-O4'	-5.57	1.38	1.45
26	BB	118	A	O3'-P	5.57	1.67	1.61
26	BB	651	G	C6-N1	5.57	1.43	1.39
26	BB	1137	G	C2-N3	5.57	1.37	1.32
26	BB	1289	C	C2-O2	-5.57	1.19	1.24
26	BB	1499	C	C5-C6	-5.57	1.29	1.34
26	BB	1518	C	C4-C5	5.57	1.47	1.43
26	BB	2853	C	C2'-C1'	5.57	1.59	1.53
1	AA	703	G	O4'-C1'	5.57	1.48	1.41
1	AA	867	G	C8-N7	5.57	1.34	1.30
26	BB	9	G	P-O5'	5.57	1.65	1.59
26	BB	332	A	P-O5'	5.57	1.65	1.59
26	BB	887	U	C2-O2	5.57	1.27	1.22
26	BB	1113	U	C5-C6	5.57	1.39	1.34
26	BB	1342	A	P-O5'	-5.57	1.54	1.59
26	BB	1370	C	C4-N4	5.57	1.39	1.33
26	BB	1416	G	C2'-O2'	-5.57	1.34	1.41
26	BB	1587	G	N9-C4	-5.57	1.33	1.38
26	BB	1975	G	C2'-C1'	-5.57	1.47	1.53
26	BB	2326	C	C2'-O2'	5.57	1.48	1.41
1	AA	992	U	P-O5'	5.57	1.65	1.59
1	AA	1078	U	C5'-C4'	5.57	1.58	1.51
26	BB	836	G	C8-N7	5.57	1.34	1.30
26	BB	2474	U	C2-O2	-5.57	1.17	1.22
1	AA	137	U	C3'-C2'	5.57	1.59	1.52
1	AA	280	C	C3'-O3'	5.57	1.50	1.42
1	AA	457	G	P-O5'	5.57	1.65	1.59
1	AA	517	G	C8-N7	-5.57	1.27	1.30
1	AA	1080	A	C2'-C1'	-5.57	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1345	U	C2-N3	5.57	1.41	1.37
26	BB	63	A	O3'-P	5.57	1.67	1.61
26	BB	659	G	N9-C4	-5.57	1.33	1.38
26	BB	1094	U	C5-C6	5.57	1.39	1.34
26	BB	1602	U	C4'-C3'	5.57	1.59	1.53
26	BB	2375	G	C2-N3	5.57	1.37	1.32
26	BB	2532	G	C5-C4	5.57	1.42	1.38
26	BB	2660	A	C5'-C4'	5.57	1.58	1.51
26	BB	2857	G	P-O5'	5.57	1.65	1.59
1	AA	152	A	N3-C4	5.57	1.38	1.34
1	AA	454	G	N3-C4	5.57	1.39	1.35
26	BB	285	G	N1-C2	5.57	1.42	1.37
26	BB	1565	C	N1-C2	5.57	1.45	1.40
26	BB	1745	A	O4'-C1'	-5.57	1.34	1.41
26	BB	2418	A	C2-N3	5.57	1.38	1.33
26	BB	2502	G	C2'-C1'	-5.57	1.47	1.53
43	BS	76	SER	N-CA	5.57	1.57	1.46
26	BB	1845	G	C5'-C4'	5.56	1.58	1.51
26	BB	2782	G	P-O5'	5.56	1.65	1.59
34	BJ	67	PRO	N-CD	-5.56	1.40	1.47
1	AA	134	G	N9-C4	5.56	1.42	1.38
1	AA	226	G	C6-O6	-5.56	1.19	1.24
26	BB	116	C	N1-C6	5.56	1.40	1.37
26	BB	1699	G	N1-C2	5.56	1.42	1.37
1	AA	160	A	C4'-O4'	-5.56	1.38	1.45
26	BB	149	A	N9-C8	-5.56	1.33	1.37
1	AA	283	U	C4-C5	5.56	1.48	1.43
1	AA	338	A	N9-C8	-5.56	1.33	1.37
1	AA	673	A	C5'-C4'	5.56	1.58	1.51
1	AA	1081	A	C5-C6	5.56	1.46	1.41
1	AA	1103	C	O4'-C1'	5.56	1.48	1.41
26	BB	369	U	C3'-O3'	5.56	1.50	1.42
26	BB	802	A	O3'-P	5.56	1.67	1.61
26	BB	1465	G	C6-O6	-5.56	1.19	1.24
26	BB	2002	G	C5-C6	5.56	1.48	1.42
26	BB	2344	U	C2-N3	5.56	1.41	1.37
1	AA	691	G	C4'-O4'	-5.56	1.38	1.45
1	AA	1499	A	N9-C8	5.56	1.42	1.37
26	BB	166	U	O3'-P	5.56	1.67	1.61
26	BB	692	C	C4-C5	5.56	1.47	1.43
26	BB	1257	C	C4'-O4'	-5.56	1.38	1.45
1	AA	448	A	C8-N7	-5.56	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2443	C	O3'-P	5.56	1.67	1.61
1	AA	377	G	C6-N1	5.55	1.43	1.39
1	AA	650	G	C2-N3	5.55	1.37	1.32
1	AA	663	A	N9-C4	5.55	1.41	1.37
1	AA	1128	C	N1-C2	-5.55	1.34	1.40
1	AA	1250	A	C5-C6	5.55	1.46	1.41
1	AA	1321	U	C2-N3	5.55	1.41	1.37
4	AD	22	A	C3'-C2'	5.55	1.59	1.52
26	BB	91	A	C5-C6	5.55	1.46	1.41
26	BB	272	A	C5-C6	5.55	1.46	1.41
26	BB	1585	C	O3'-P	5.55	1.67	1.61
26	BB	2387	U	C4-O4	5.55	1.28	1.23
26	BB	2470	G	C2-N3	5.55	1.37	1.32
1	AA	38	G	N9-C4	5.55	1.42	1.38
1	AA	428	G	C5'-C4'	5.55	1.58	1.51
1	AA	1189	U	O3'-P	-5.55	1.54	1.61
26	BB	1354	A	O5'-C5'	-5.55	1.33	1.42
26	BB	1773	A	C5'-C4'	5.55	1.58	1.51
1	AA	26	A	C4'-O4'	-5.55	1.38	1.45
1	AA	147	G	C3'-C2'	-5.55	1.46	1.52
1	AA	558	G	N7-C5	5.55	1.42	1.39
1	AA	830	G	C3'-C2'	-5.55	1.46	1.52
1	AA	1205	U	C4-C5	5.55	1.48	1.43
1	AA	1255	G	C5-C4	-5.55	1.34	1.38
25	BA	82	U	C4-O4	-5.55	1.19	1.23
26	BB	610	C	C2'-C1'	5.55	1.59	1.53
26	BB	815	C	C4-C5	-5.55	1.38	1.43
26	BB	1122	G	C8-N7	5.55	1.34	1.30
26	BB	2222	C	C5-C6	-5.55	1.29	1.34
1	AA	387	U	N1-C2	5.55	1.43	1.38
2	AB	51	G	C6-N1	5.55	1.43	1.39
25	BA	33	G	N9-C4	-5.55	1.33	1.38
26	BB	77	G	C2-N2	-5.55	1.29	1.34
26	BB	416	U	O4'-C1'	5.55	1.48	1.41
26	BB	470	A	C5'-C4'	5.55	1.58	1.51
26	BB	954	G	N9-C8	5.55	1.41	1.37
26	BB	1098	A	C8-N7	-5.55	1.27	1.31
26	BB	1128	G	C3'-C2'	5.55	1.59	1.52
26	BB	1368	G	C1'-N9	5.55	1.57	1.48
26	BB	1872	A	C3'-C2'	5.55	1.59	1.52
26	BB	2585	U	C2'-C1'	5.55	1.59	1.53
1	AA	1009	U	C2'-C1'	5.55	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1669	A	N3-C4	5.55	1.38	1.34
26	BB	1729	U	P-O5'	5.55	1.65	1.59
26	BB	1741	C	C2'-O2'	-5.55	1.34	1.41
26	BB	1832	C	C5'-C4'	5.55	1.58	1.51
26	BB	1900	A	C5'-C4'	5.55	1.58	1.51
26	BB	2269	G	C4'-O4'	-5.55	1.38	1.45
26	BB	2627	G	O4'-C1'	5.55	1.48	1.41
26	BB	2750	A	N9-C4	-5.55	1.34	1.37
1	AA	365	U	C2-O2	5.55	1.27	1.22
1	AA	788	U	N1-C2	5.55	1.43	1.38
1	AA	1290	G	N3-C4	5.55	1.39	1.35
1	AA	1367	C	P-O5'	5.55	1.65	1.59
26	BB	39	G	P-O5'	-5.55	1.54	1.59
26	BB	47	C	C4-N4	5.55	1.39	1.33
26	BB	219	A	N9-C4	-5.55	1.34	1.37
26	BB	417	C	N3-C4	5.55	1.37	1.33
26	BB	627	A	O5'-C5'	-5.55	1.33	1.42
26	BB	1001	A	N9-C8	5.55	1.42	1.37
26	BB	1103	A	P-O5'	5.55	1.65	1.59
26	BB	1144	A	C3'-C2'	5.55	1.59	1.52
26	BB	1347	A	C5-C4	-5.55	1.34	1.38
26	BB	2469	A	C6-N1	-5.55	1.31	1.35
1	AA	103	U	N1-C2	5.54	1.43	1.38
1	AA	149	A	N9-C4	5.54	1.41	1.37
1	AA	650	G	C2'-C1'	5.54	1.59	1.53
2	AB	29	G	C8-N7	5.54	1.34	1.30
26	BB	935	C	N1-C6	5.54	1.40	1.37
26	BB	2668	G	C2'-C1'	-5.54	1.47	1.53
1	AA	267	C	C5'-C4'	5.54	1.58	1.51
1	AA	460	A	C6-N6	5.54	1.38	1.33
1	AA	1025	U	C2-N3	5.54	1.41	1.37
1	AA	1080	A	N7-C5	-5.54	1.35	1.39
1	AA	1497	G	N7-C5	5.54	1.42	1.39
26	BB	352	A	C8-N7	5.54	1.35	1.31
26	BB	1141	U	N1-C2	5.54	1.43	1.38
26	BB	1628	G	C2-N3	5.54	1.37	1.32
26	BB	2031	A	N3-C4	5.54	1.38	1.34
26	BB	2242	G	N3-C4	-5.54	1.31	1.35
26	BB	2297	A	O3'-P	5.54	1.67	1.61
26	BB	2568	U	O3'-P	5.54	1.67	1.61
1	AA	353	A	C2'-O2'	5.54	1.48	1.41
1	AA	604	G	C5-C4	5.54	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	696	A	C4'-C3'	5.54	1.59	1.53
1	AA	1228	C	C5'-C4'	5.54	1.57	1.51
26	BB	301	G	P-O5'	-5.54	1.54	1.59
26	BB	670	A	C3'-C2'	5.54	1.59	1.52
26	BB	1311	G	C2-N3	5.54	1.37	1.32
26	BB	1320	C	N3-C4	-5.54	1.30	1.33
26	BB	1887	C	C4-C5	5.54	1.47	1.43
26	BB	2426	A	C3'-C2'	5.54	1.59	1.52
25	BA	75	G	C5'-C4'	5.54	1.57	1.51
26	BB	1474	U	N1-C6	5.54	1.43	1.38
26	BB	1971	U	C4'-O4'	-5.54	1.38	1.45
26	BB	1974	C	N3-C4	5.54	1.37	1.33
26	BB	2070	A	O3'-P	5.54	1.67	1.61
1	AA	155	A	C5'-C4'	5.54	1.57	1.51
1	AA	216	U	C2-N3	5.54	1.41	1.37
1	AA	373	A	N9-C4	-5.54	1.34	1.37
1	AA	800	G	C8-N7	-5.54	1.27	1.30
25	BA	56	G	C2-N3	5.54	1.37	1.32
26	BB	737	C	O4'-C1'	5.54	1.48	1.41
26	BB	842	U	C3'-O3'	5.54	1.50	1.42
26	BB	1112	G	C8-N7	5.54	1.34	1.30
26	BB	1850	G	C6-N1	5.54	1.43	1.39
26	BB	2162	G	N1-C2	5.54	1.42	1.37
26	BB	2276	G	C2'-C1'	-5.54	1.47	1.53
26	BB	2431	U	C4-O4	-5.54	1.19	1.23
31	BG	6	TYR	CE2-CZ	5.54	1.45	1.38
1	AA	45	G	C3'-O3'	-5.54	1.34	1.42
1	AA	75	G	C4'-O4'	-5.54	1.38	1.45
1	AA	104	G	C1'-N9	5.54	1.57	1.48
1	AA	1360	A	P-O5'	5.54	1.65	1.59
1	AA	156	C	C4'-C3'	-5.54	1.47	1.52
1	AA	357	G	C5'-C4'	5.54	1.57	1.51
1	AA	360	G	N3-C4	-5.54	1.31	1.35
1	AA	1145	A	C5-C4	5.54	1.42	1.38
1	AA	1382	C	N1-C6	-5.54	1.33	1.37
4	AD	9	G	C8-N7	5.54	1.34	1.30
25	BA	36	C	P-O5'	5.54	1.65	1.59
26	BB	538	A	C6-N6	5.54	1.38	1.33
26	BB	660	C	C4'-O4'	-5.54	1.38	1.45
26	BB	1509	A	C5-C4	-5.54	1.34	1.38
26	BB	1518	C	C4'-O4'	-5.54	1.38	1.45
26	BB	1612	C	C2'-C1'	5.54	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1687	G	N9-C4	5.54	1.42	1.38
26	BB	2159	G	C6-O6	-5.54	1.19	1.24
26	BB	2482	A	N9-C4	5.54	1.41	1.37
26	BB	2493	U	C2-O2	5.54	1.27	1.22
26	BB	2797	U	N1-C2	5.54	1.43	1.38
1	AA	376	G	C5'-C4'	5.53	1.57	1.51
1	AA	650	G	N9-C8	-5.53	1.33	1.37
1	AA	869	G	N9-C4	-5.53	1.33	1.38
1	AA	1182	G	O3'-P	5.53	1.67	1.61
1	AA	1415	G	C5-C4	-5.53	1.34	1.38
26	BB	277	G	C4'-O4'	-5.53	1.38	1.45
26	BB	1354	A	O3'-P	5.53	1.67	1.61
26	BB	1393	A	C2-N3	-5.53	1.28	1.33
26	BB	2014	A	N9-C4	-5.53	1.34	1.37
26	BB	2439	A	C4'-O4'	-5.53	1.38	1.45
26	BB	2513	A	O4'-C1'	5.53	1.48	1.41
26	BB	2652	C	C4-C5	5.53	1.47	1.43
1	AA	793	U	C4-C5	5.53	1.48	1.43
1	AA	807	A	O3'-P	-5.53	1.54	1.61
1	AA	872	A	C3'-C2'	5.53	1.59	1.52
2	AB	52	A	C6-N1	-5.53	1.31	1.35
25	BA	101	A	N9-C8	-5.53	1.33	1.37
26	BB	918	A	C5-C4	-5.53	1.34	1.38
26	BB	2045	C	C2-N3	5.53	1.40	1.35
1	AA	340	U	C2'-O2'	5.53	1.48	1.41
1	AA	626	G	N9-C8	-5.53	1.33	1.37
26	BB	880	G	C4'-C3'	5.53	1.59	1.53
26	BB	1096	A	N9-C4	-5.53	1.34	1.37
26	BB	1099	G	C2-N3	5.53	1.37	1.32
26	BB	1326	U	C4-O4	5.53	1.28	1.23
26	BB	1850	G	O3'-P	5.53	1.67	1.61
26	BB	2133	G	N1-C2	5.53	1.42	1.37
26	BB	38	A	O4'-C1'	5.53	1.48	1.41
26	BB	989	G	N1-C2	5.53	1.42	1.37
26	BB	1416	G	P-O5'	5.53	1.65	1.59
26	BB	1514	G	C2-N3	5.53	1.37	1.32
1	AA	420	U	P-O5'	5.53	1.65	1.59
1	AA	897	C	C5-C6	5.53	1.38	1.34
1	AA	918	A	C5-C6	5.53	1.46	1.41
1	AA	1123	U	P-O5'	5.53	1.65	1.59
2	AB	4	G	C4'-O4'	-5.53	1.38	1.45
3	AC	38	G	C2-N3	5.53	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	AF	166	TRP	CD2-CE2	5.53	1.48	1.41
26	BB	859	G	C6-O6	-5.53	1.19	1.24
1	AA	374	A	O3'-P	5.53	1.67	1.61
1	AA	398	U	C4-C5	5.53	1.48	1.43
1	AA	1213	A	C3'-C2'	-5.53	1.46	1.52
1	AA	1304	G	N3-C4	-5.53	1.31	1.35
1	AA	1338	G	N7-C5	5.53	1.42	1.39
1	AA	1393	U	N1-C6	5.53	1.43	1.38
1	AA	1469	C	C4'-C3'	5.53	1.59	1.53
1	AA	1472	U	C4'-O4'	-5.53	1.38	1.45
26	BB	315	G	N9-C4	-5.53	1.33	1.38
26	BB	1361	G	C2-N2	5.53	1.40	1.34
26	BB	2824	C	C4-N4	5.53	1.39	1.33
1	AA	511	C	C1'-N1	5.52	1.57	1.48
26	BB	488	G	C6-N1	5.52	1.43	1.39
26	BB	813	U	C2'-C1'	5.52	1.59	1.53
26	BB	1198	U	C2'-C1'	5.52	1.59	1.53
26	BB	1460	U	O3'-P	5.52	1.67	1.61
1	AA	1341	U	N3-C4	5.52	1.43	1.38
2	AB	35	C	C4'-O4'	-5.52	1.38	1.45
6	AF	119	ILE	N-CA	5.52	1.57	1.46
26	BB	76	C	C4'-O4'	-5.52	1.38	1.45
26	BB	210	C	N3-C4	-5.52	1.30	1.33
26	BB	251	A	C2-N3	5.52	1.38	1.33
26	BB	775	G	N9-C8	5.52	1.41	1.37
26	BB	1082	U	C2-N3	5.52	1.41	1.37
26	BB	1083	U	C2-N3	5.52	1.41	1.37
26	BB	2806	C	O3'-P	5.52	1.67	1.61
1	AA	495	A	N9-C4	5.52	1.41	1.37
1	AA	1325	C	C4'-O4'	-5.52	1.38	1.45
3	AC	31	U	O5'-C5'	-5.52	1.34	1.42
26	BB	523	C	C4'-O4'	-5.52	1.38	1.45
26	BB	916	G	N7-C5	-5.52	1.35	1.39
26	BB	935	C	C5'-C4'	5.52	1.57	1.51
26	BB	2129	C	N1-C6	5.52	1.40	1.37
1	AA	131	A	N9-C8	5.52	1.42	1.37
1	AA	501	C	P-O5'	5.52	1.65	1.59
1	AA	1044	A	C5'-C4'	5.52	1.57	1.51
1	AA	1251	A	C5-C4	-5.52	1.34	1.38
1	AA	1473	G	C5'-C4'	5.52	1.57	1.51
26	BB	442	G	O4'-C1'	5.52	1.48	1.41
26	BB	1109	C	C2'-O2'	5.52	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1428	C	C1'-N1	5.52	1.57	1.48
48	BX	82	TYR	CE2-CZ	5.52	1.45	1.38
1	AA	31	G	C2'-C1'	5.52	1.59	1.53
1	AA	79	G	N3-C4	5.52	1.39	1.35
1	AA	135	C	C2'-C1'	-5.52	1.47	1.53
1	AA	576	C	O3'-P	-5.52	1.54	1.61
1	AA	1130	A	P-O5'	5.52	1.65	1.59
26	BB	603	A	N7-C5	-5.52	1.35	1.39
26	BB	1172	C	N1-C6	5.52	1.40	1.37
26	BB	1522	A	N3-C4	5.52	1.38	1.34
26	BB	2204	G	N9-C8	-5.52	1.33	1.37
1	AA	485	U	C5-C6	5.52	1.39	1.34
1	AA	793	U	C4'-O4'	-5.52	1.38	1.45
1	AA	1000	A	N3-C4	5.52	1.38	1.34
26	BB	752	A	C5-C4	-5.52	1.34	1.38
26	BB	1891	G	N3-C4	5.52	1.39	1.35
1	AA	1060	U	N1-C2	5.51	1.43	1.38
1	AA	1175	G	C5-C4	5.51	1.42	1.38
1	AA	1271	A	N9-C4	5.51	1.41	1.37
25	BA	104	A	C5-C4	-5.51	1.34	1.38
26	BB	76	C	C5'-C4'	5.51	1.57	1.51
26	BB	371	A	N3-C4	5.51	1.38	1.34
26	BB	1639	C	C4-N4	5.51	1.39	1.33
26	BB	2814	A	N9-C8	-5.51	1.33	1.37
1	AA	321	A	P-O5'	-5.51	1.54	1.59
1	AA	418	C	C2'-C1'	-5.51	1.47	1.53
1	AA	1110	A	C5-C4	5.51	1.42	1.38
26	BB	831	G	C3'-C2'	-5.51	1.46	1.52
26	BB	1085	A	C5-C6	5.51	1.46	1.41
1	AA	10	A	C4'-C3'	-5.51	1.47	1.52
1	AA	163	C	C2-N3	5.51	1.40	1.35
1	AA	556	C	C4-C5	5.51	1.47	1.43
1	AA	792	A	N9-C4	-5.51	1.34	1.37
1	AA	818	G	C2-N3	5.51	1.37	1.32
1	AA	1022	A	C6-N6	5.51	1.38	1.33
26	BB	1214	A	C5-C6	-5.51	1.36	1.41
26	BB	1394	U	C2-N3	5.51	1.41	1.37
26	BB	2570	G	O3'-P	5.51	1.67	1.61
26	BB	2885	G	N9-C8	-5.51	1.33	1.37
1	AA	2	A	N7-C5	5.51	1.42	1.39
1	AA	699	C	O3'-P	-5.51	1.54	1.61
1	AA	846	G	C6-O6	-5.51	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1430	A	C2-N3	5.51	1.38	1.33
26	BB	225	C	P-O5'	5.51	1.65	1.59
26	BB	484	C	C2-N3	5.51	1.40	1.35
26	BB	505	A	N3-C4	5.51	1.38	1.34
26	BB	766	U	N1-C6	5.51	1.43	1.38
26	BB	1242	U	C4'-O4'	-5.51	1.38	1.45
26	BB	1494	A	C6-N1	-5.51	1.31	1.35
26	BB	1814	G	N7-C5	-5.51	1.35	1.39
26	BB	818	G	P-O5'	5.51	1.65	1.59
26	BB	2297	A	C5-C6	5.51	1.46	1.41
1	AA	46	G	C2-N2	-5.51	1.29	1.34
1	AA	1499	A	C2-N3	5.51	1.38	1.33
1	AA	1536	C	N1-C6	5.51	1.40	1.37
2	AB	61	C	P-O5'	5.51	1.65	1.59
26	BB	176	A	C6-N1	-5.51	1.31	1.35
26	BB	515	A	N9-C4	-5.51	1.34	1.37
26	BB	520	G	P-O5'	5.51	1.65	1.59
26	BB	1212	G	O3'-P	5.51	1.67	1.61
26	BB	2206	C	C4-N4	-5.51	1.28	1.33
26	BB	2222	C	P-O5'	-5.51	1.54	1.59
26	BB	2505	G	C5-C6	5.51	1.47	1.42
26	BB	2866	U	N3-C4	-5.51	1.33	1.38
40	BP	94	TYR	CE1-CZ	5.51	1.45	1.38
1	AA	871	U	C4-C5	5.50	1.48	1.43
25	BA	20	G	P-O5'	5.50	1.65	1.59
26	BB	1454	C	P-O5'	5.50	1.65	1.59
26	BB	1581	G	C2'-C1'	-5.50	1.47	1.53
26	BB	1945	G	C5-C4	-5.50	1.34	1.38
26	BB	2118	U	O3'-P	-5.50	1.54	1.61
26	BB	2158	A	P-O5'	5.50	1.65	1.59
26	BB	2750	A	C4'-C3'	5.50	1.59	1.53
1	AA	954	G	O5'-C5'	-5.50	1.34	1.42
1	AA	1009	U	C3'-C2'	5.50	1.59	1.52
26	BB	1409	U	N1-C6	-5.50	1.32	1.38
26	BB	2197	U	C4-C5	5.50	1.48	1.43
26	BB	2276	G	N1-C2	5.50	1.42	1.37
28	BD	147	PRO	N-CD	-5.50	1.40	1.47
34	BJ	31	GLY	CA-C	5.50	1.60	1.51
1	AA	374	A	N3-C4	5.50	1.38	1.34
1	AA	409	U	C5'-C4'	5.50	1.57	1.51
1	AA	465	A	C5'-C4'	5.50	1.57	1.51
1	AA	670	G	N7-C5	5.50	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	777	A	C5'-C4'	5.50	1.57	1.51
1	AA	830	G	N9-C8	-5.50	1.33	1.37
10	AJ	124	SER	CB-OG	-5.50	1.35	1.42
26	BB	715	A	C4'-O4'	-5.50	1.38	1.45
26	BB	1086	A	C6-N1	-5.50	1.31	1.35
26	BB	1350	C	N1-C6	-5.50	1.33	1.37
26	BB	1398	C	N1-C6	5.50	1.40	1.37
26	BB	1491	G	C5-C4	-5.50	1.34	1.38
26	BB	1957	C	C5-C6	5.50	1.38	1.34
26	BB	2138	G	P-O5'	-5.50	1.54	1.59
28	BD	150	GLY	N-CA	5.50	1.54	1.46
4	AD	73	A	N9-C4	5.50	1.41	1.37
26	BB	2396	G	C5-C6	5.50	1.47	1.42
1	AA	260	G	C2-N3	5.50	1.37	1.32
1	AA	767	A	N3-C4	5.50	1.38	1.34
1	AA	1119	C	P-O5'	5.50	1.65	1.59
2	AB	63	C	C4-C5	5.50	1.47	1.43
25	BA	83	G	C3'-O3'	5.50	1.49	1.42
26	BB	373	U	C2'-C1'	-5.50	1.47	1.53
26	BB	423	A	C4'-C3'	-5.50	1.47	1.52
26	BB	1362	C	C2-N3	5.50	1.40	1.35
26	BB	1395	A	C2'-C1'	5.50	1.59	1.53
26	BB	1839	G	N3-C4	5.50	1.39	1.35
26	BB	2389	G	N7-C5	-5.50	1.35	1.39
26	BB	2846	G	O4'-C1'	5.50	1.48	1.41
1	AA	326	G	C6-N1	5.50	1.43	1.39
1	AA	432	A	C8-N7	5.50	1.35	1.31
1	AA	624	C	O4'-C1'	5.50	1.48	1.41
1	AA	809	G	C6-N1	5.50	1.43	1.39
1	AA	936	C	N1-C6	5.50	1.40	1.37
1	AA	948	C	C4-C5	5.50	1.47	1.43
1	AA	992	U	C4'-C3'	5.50	1.59	1.53
1	AA	1163	A	C2'-O2'	5.50	1.48	1.41
1	AA	1454	G	O3'-P	-5.50	1.54	1.61
2	AB	27	C	C5'-C4'	5.50	1.57	1.51
26	BB	147	C	N3-C4	5.50	1.37	1.33
26	BB	291	G	C3'-O3'	5.50	1.49	1.42
26	BB	1342	A	C5-C4	-5.50	1.34	1.38
26	BB	1507	C	C5-C6	5.50	1.38	1.34
26	BB	1605	C	C5'-C4'	5.50	1.57	1.51
26	BB	2506	U	C3'-O3'	5.50	1.49	1.42
26	BB	2572	A	C5-C4	5.50	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1361	G	C5-C6	5.50	1.47	1.42
26	BB	1718	G	C6-N1	5.50	1.43	1.39
26	BB	2535	G	C5-C6	5.50	1.47	1.42
1	AA	200	G	N3-C4	5.49	1.39	1.35
1	AA	465	A	N9-C4	5.49	1.41	1.37
26	BB	1105	U	C4-C5	5.49	1.48	1.43
26	BB	1280	G	N3-C4	5.49	1.39	1.35
26	BB	1516	G	N9-C8	5.49	1.41	1.37
26	BB	1570	A	C4'-O4'	-5.49	1.38	1.45
26	BB	1782	U	C2-N3	5.49	1.41	1.37
26	BB	2177	C	C4'-C3'	5.49	1.59	1.53
26	BB	2763	G	N1-C2	5.49	1.42	1.37
26	BB	2900	A	N3-C4	5.49	1.38	1.34
1	AA	41	G	N1-C2	5.49	1.42	1.37
1	AA	335	C	C4-N4	5.49	1.38	1.33
26	BB	716	A	C5-C6	5.49	1.46	1.41
26	BB	1794	A	C4'-O4'	-5.49	1.38	1.45
26	BB	1976	U	C2-N3	5.49	1.41	1.37
26	BB	2116	G	P-O5'	5.49	1.65	1.59
1	AA	740	U	P-O5'	-5.49	1.54	1.59
1	AA	1430	A	N9-C4	5.49	1.41	1.37
25	BA	16	G	N3-C4	5.49	1.39	1.35
26	BB	98	G	C2-N3	5.49	1.37	1.32
26	BB	557	C	P-O5'	5.49	1.65	1.59
26	BB	951	C	C5'-C4'	5.49	1.57	1.51
26	BB	1208	C	C4-C5	-5.49	1.38	1.43
26	BB	1516	G	C5-C6	5.49	1.47	1.42
26	BB	1945	G	C4'-O4'	-5.49	1.38	1.45
26	BB	2246	G	C8-N7	-5.49	1.27	1.30
26	BB	2358	A	C6-N6	5.49	1.38	1.33
26	BB	2438	U	C4'-O4'	-5.49	1.38	1.45
1	AA	457	G	O3'-P	5.49	1.67	1.61
1	AA	992	U	C4-C5	5.49	1.48	1.43
26	BB	598	U	C2-N3	5.49	1.41	1.37
26	BB	696	G	C2-N2	-5.49	1.29	1.34
26	BB	1215	G	C6-N1	-5.49	1.35	1.39
26	BB	1511	G	N7-C5	5.49	1.42	1.39
26	BB	1904	G	N3-C4	5.49	1.39	1.35
26	BB	2187	U	C4-C5	5.49	1.48	1.43
26	BB	2289	G	C2-N2	-5.49	1.29	1.34
26	BB	2627	G	C6-N1	-5.49	1.35	1.39
26	BB	2673	G	N1-C2	5.49	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	235	C	O3'-P	5.49	1.67	1.61
1	AA	642	A	N9-C8	5.49	1.42	1.37
1	AA	1039	G	C5-C6	-5.49	1.36	1.42
26	BB	1896	G	N1-C2	5.49	1.42	1.37
26	BB	2267	A	N1-C2	-5.49	1.29	1.34
1	AA	6	G	C4'-O4'	-5.49	1.38	1.45
1	AA	48	C	C4-C5	5.49	1.47	1.43
1	AA	352	C	C2-O2	-5.49	1.19	1.24
1	AA	487	A	C4'-O4'	-5.49	1.38	1.45
1	AA	801	U	C4-O4	5.49	1.28	1.23
1	AA	1076	U	C4'-C3'	5.49	1.59	1.53
1	AA	1342	C	C2-N3	5.49	1.40	1.35
26	BB	208	C	C2-N3	5.49	1.40	1.35
26	BB	711	G	C2-N3	5.49	1.37	1.32
26	BB	1321	A	O3'-P	5.49	1.67	1.61
26	BB	2192	U	C2-N3	-5.49	1.33	1.37
26	BB	2363	G	N7-C5	-5.49	1.35	1.39
1	AA	692	U	C2-N3	5.48	1.41	1.37
1	AA	883	C	C2-O2	-5.48	1.19	1.24
26	BB	316	C	C4'-C3'	-5.48	1.47	1.52
26	BB	1619	G	N3-C4	-5.48	1.31	1.35
26	BB	2870	C	C5-C6	5.48	1.38	1.34
1	AA	22	G	P-O5'	5.48	1.65	1.59
1	AA	73	C	C4-C5	5.48	1.47	1.43
1	AA	240	G	O3'-P	-5.48	1.54	1.61
1	AA	608	A	C5-C4	-5.48	1.34	1.38
1	AA	674	G	N9-C4	5.48	1.42	1.38
26	BB	83	A	P-O5'	5.48	1.65	1.59
26	BB	171	U	N1-C6	-5.48	1.33	1.38
26	BB	596	U	N1-C6	-5.48	1.33	1.38
26	BB	679	C	C4'-O4'	-5.48	1.38	1.45
26	BB	1498	C	C5'-C4'	5.48	1.57	1.51
26	BB	2848	G	C2'-C1'	5.48	1.59	1.53
1	AA	327	A	O4'-C1'	5.48	1.48	1.41
1	AA	745	G	C4'-O4'	-5.48	1.38	1.45
1	AA	1180	A	N1-C2	-5.48	1.29	1.34
1	AA	1215	G	N3-C4	5.48	1.39	1.35
1	AA	1325	C	N1-C6	5.48	1.40	1.37
26	BB	250	G	C2-N2	-5.48	1.29	1.34
26	BB	670	A	N7-C5	5.48	1.42	1.39
26	BB	737	C	N1-C6	5.48	1.40	1.37
26	BB	758	C	N1-C6	5.48	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	921	C	C2-N3	5.48	1.40	1.35
26	BB	1156	A	P-O5'	5.48	1.65	1.59
26	BB	1475	G	C3'-C2'	-5.48	1.46	1.52
26	BB	1475	G	C6-N1	5.48	1.43	1.39
26	BB	1510	G	C2'-C1'	5.48	1.59	1.53
26	BB	2149	U	C2'-C1'	5.48	1.59	1.53
26	BB	2581	G	C5-C6	5.48	1.47	1.42
26	BB	190	A	C5-C4	-5.48	1.34	1.38
26	BB	1095	A	N1-C2	5.48	1.39	1.34
26	BB	1775	U	C5-C6	5.48	1.39	1.34
26	BB	2275	C	C2-N3	5.48	1.40	1.35
47	BW	29	SER	CB-OG	5.48	1.49	1.42
1	AA	792	A	C2'-C1'	5.48	1.59	1.53
1	AA	1321	U	O3'-P	-5.48	1.54	1.61
1	AA	1365	G	N7-C5	-5.48	1.35	1.39
26	BB	785	G	C4'-O4'	-5.48	1.38	1.45
26	BB	829	A	O3'-P	5.48	1.67	1.61
26	BB	1028	A	O5'-C5'	-5.48	1.34	1.42
26	BB	1845	G	O4'-C1'	5.48	1.48	1.41
26	BB	2159	G	C8-N7	-5.48	1.27	1.30
1	AA	220	G	N7-C5	5.47	1.42	1.39
1	AA	411	A	N1-C2	5.47	1.39	1.34
1	AA	1196	A	N1-C2	-5.47	1.29	1.34
4	AD	50	G	N3-C4	5.47	1.39	1.35
26	BB	179	C	N1-C6	5.47	1.40	1.37
26	BB	399	U	O3'-P	5.47	1.67	1.61
26	BB	505	A	N1-C2	-5.47	1.29	1.34
26	BB	1052	C	N1-C6	5.47	1.40	1.37
1	AA	667	G	N9-C4	5.47	1.42	1.38
1	AA	1065	U	C4'-O4'	-5.47	1.38	1.45
25	BA	10	G	C5-C4	-5.47	1.34	1.38
26	BB	149	A	N3-C4	5.47	1.38	1.34
26	BB	270	A	C4'-O4'	-5.47	1.38	1.45
26	BB	1003	G	C5-C4	-5.47	1.34	1.38
26	BB	1099	G	C3'-C2'	-5.47	1.46	1.52
26	BB	1312	U	C2-N3	-5.47	1.33	1.37
26	BB	1383	A	N9-C4	5.47	1.41	1.37
26	BB	1619	G	C2-N3	5.47	1.37	1.32
26	BB	248	G	N7-C5	5.47	1.42	1.39
26	BB	1501	G	N9-C8	5.47	1.41	1.37
26	BB	1639	C	O3'-P	5.47	1.67	1.61
1	AA	428	G	C5-C6	5.47	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	633	G	N7-C5	5.47	1.42	1.39
1	AA	1398	A	C2-N3	-5.47	1.28	1.33
1	AA	1538	C	P-O5'	-5.47	1.54	1.59
3	AC	48	C	C1'-N1	5.47	1.56	1.48
26	BB	342	A	C3'-C2'	-5.47	1.46	1.52
26	BB	1295	C	N1-C2	-5.47	1.34	1.40
26	BB	1825	U	C2'-C1'	5.47	1.59	1.53
1	AA	542	G	C3'-C2'	5.47	1.58	1.52
1	AA	1287	A	N7-C5	-5.47	1.35	1.39
1	AA	1517	G	C2-N2	-5.47	1.29	1.34
26	BB	149	A	C8-N7	-5.47	1.27	1.31
26	BB	1968	G	C5'-C4'	5.47	1.57	1.51
1	AA	2	A	C8-N7	-5.47	1.27	1.31
1	AA	324	G	N7-C5	5.47	1.42	1.39
1	AA	328	C	C2-O2	-5.47	1.19	1.24
1	AA	441	A	C2'-C1'	-5.47	1.47	1.53
1	AA	866	C	C4'-O4'	-5.47	1.38	1.45
1	AA	1010	U	C4'-C3'	-5.47	1.47	1.52
1	AA	1187	G	C4'-C3'	-5.47	1.47	1.52
1	AA	1460	C	N3-C4	5.47	1.37	1.33
26	BB	1	G	N7-C5	5.47	1.42	1.39
26	BB	382	A	C6-N1	5.47	1.39	1.35
26	BB	448	U	C5'-C4'	5.47	1.57	1.51
26	BB	706	A	C5'-C4'	5.47	1.57	1.51
26	BB	799	G	N9-C4	-5.47	1.33	1.38
26	BB	859	G	C3'-C2'	5.47	1.58	1.52
26	BB	1345	C	O3'-P	5.47	1.67	1.61
26	BB	2295	C	C3'-O3'	5.47	1.49	1.42
1	AA	1	A	O3'-P	5.46	1.67	1.61
4	AD	39	A	N3-C4	-5.46	1.31	1.34
22	AV	79	TYR	CE2-CZ	5.46	1.45	1.38
26	BB	1758	U	C4'-O4'	-5.46	1.38	1.45
26	BB	2439	A	C5-C4	5.46	1.42	1.38
26	BB	2473	U	C2'-C1'	5.46	1.59	1.53
1	AA	16	A	C5-C4	-5.46	1.34	1.38
1	AA	478	A	C6-N1	-5.46	1.31	1.35
1	AA	630	A	C5-C4	-5.46	1.34	1.38
1	AA	943	U	C2'-C1'	-5.46	1.47	1.53
1	AA	991	U	P-O5'	5.46	1.65	1.59
1	AA	1044	A	C4'-O4'	-5.46	1.38	1.45
1	AA	1458	G	N7-C5	5.46	1.42	1.39
6	AF	109	GLU	CD-OE2	-5.46	1.19	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	47	C	C5-C6	5.46	1.38	1.34
26	BB	148	U	O4'-C1'	-5.46	1.34	1.41
26	BB	1302	A	P-O5'	5.46	1.65	1.59
26	BB	1572	A	N3-C4	-5.46	1.31	1.34
26	BB	1850	G	P-O5'	5.46	1.65	1.59
26	BB	2255	G	N7-C5	-5.46	1.35	1.39
26	BB	2463	C	O4'-C1'	-5.46	1.34	1.41
26	BB	2534	A	N7-C5	5.46	1.42	1.39
1	AA	376	G	C3'-C2'	5.46	1.58	1.52
1	AA	539	A	O4'-C1'	-5.46	1.34	1.41
1	AA	1001	C	C2-O2	-5.46	1.19	1.24
1	AA	1178	G	C2-N3	5.46	1.37	1.32
1	AA	1413	A	C4'-C3'	5.46	1.59	1.53
26	BB	262	A	C4'-O4'	-5.46	1.38	1.45
26	BB	696	G	C2'-O2'	5.46	1.48	1.41
26	BB	699	A	C2'-C1'	5.46	1.59	1.53
26	BB	1591	A	C4'-C3'	5.46	1.59	1.53
26	BB	2025	C	C5'-C4'	5.46	1.57	1.51
26	BB	2411	A	C8-N7	-5.46	1.27	1.31
26	BB	2533	U	C4'-C3'	5.46	1.59	1.53
1	AA	202	G	P-O5'	5.46	1.65	1.59
1	AA	413	G	C2'-O2'	5.46	1.48	1.41
26	BB	2394	C	C5-C6	5.46	1.38	1.34
26	BB	2571	U	N1-C6	5.46	1.42	1.38
1	AA	262	A	C6-N6	5.46	1.38	1.33
1	AA	1033	G	C2'-O2'	5.46	1.48	1.41
1	AA	1383	C	N3-C4	-5.46	1.30	1.33
26	BB	362	A	C6-N1	-5.46	1.31	1.35
26	BB	1485	U	O3'-P	5.46	1.67	1.61
26	BB	1575	C	C5'-C4'	5.46	1.57	1.51
26	BB	2155	U	C4'-O4'	-5.46	1.38	1.45
26	BB	2507	C	N3-C4	5.46	1.37	1.33
1	AA	416	G	C6-O6	-5.46	1.19	1.24
1	AA	483	C	C2-N3	5.46	1.40	1.35
1	AA	579	A	C6-N1	5.46	1.39	1.35
1	AA	1142	G	C2'-C1'	-5.46	1.47	1.53
1	AA	1308	U	C4'-O4'	-5.46	1.38	1.45
25	BA	5	U	O4'-C1'	5.46	1.48	1.41
26	BB	54	G	C8-N7	-5.46	1.27	1.30
26	BB	804	A	C5-C4	-5.46	1.34	1.38
26	BB	1270	C	C4-C5	5.46	1.47	1.43
26	BB	1808	A	N3-C4	5.46	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2651	C	P-O5'	5.46	1.65	1.59
26	BB	2692	G	N9-C4	5.46	1.42	1.38
1	AA	180	U	C4'-C3'	5.46	1.59	1.53
1	AA	345	C	C5-C6	5.46	1.38	1.34
1	AA	818	G	C4'-O4'	-5.46	1.38	1.45
26	BB	537	G	P-O5'	5.46	1.65	1.59
26	BB	2242	G	N1-C2	5.46	1.42	1.37
26	BB	2626	C	C2'-C1'	5.46	1.59	1.53
1	AA	287	U	C5'-C4'	5.45	1.57	1.51
1	AA	1379	G	O4'-C1'	5.45	1.48	1.41
4	AD	2	G	P-O5'	5.45	1.65	1.59
25	BA	91	C	N3-C4	5.45	1.37	1.33
26	BB	132	G	C6-O6	5.45	1.29	1.24
26	BB	263	G	C4'-O4'	-5.45	1.38	1.45
26	BB	1699	G	C6-O6	5.45	1.29	1.24
26	BB	2444	G	P-O5'	5.45	1.65	1.59
26	BB	2587	A	C5-C6	5.45	1.46	1.41
1	AA	1021	A	C5-C6	5.45	1.46	1.41
1	AA	1148	U	C2-O2	5.45	1.27	1.22
26	BB	104	A	N9-C8	5.45	1.42	1.37
26	BB	710	U	N3-C4	5.45	1.43	1.38
26	BB	2718	G	C6-O6	-5.45	1.19	1.24
1	AA	68	G	P-O5'	5.45	1.65	1.59
1	AA	418	C	O4'-C1'	5.45	1.48	1.41
1	AA	1240	U	O3'-P	5.45	1.67	1.61
25	BA	67	G	N3-C4	5.45	1.39	1.35
26	BB	1406	U	C5'-C4'	5.45	1.57	1.51
26	BB	1897	G	N3-C4	5.45	1.39	1.35
26	BB	2011	U	N1-C2	5.45	1.43	1.38
1	AA	1387	G	C5'-C4'	5.45	1.57	1.51
1	AA	1493	A	C5-C4	-5.45	1.34	1.38
26	BB	28	A	C6-N1	-5.45	1.31	1.35
26	BB	445	C	C2'-C1'	5.45	1.59	1.53
26	BB	802	A	C4'-O4'	-5.45	1.38	1.45
26	BB	941	A	N9-C4	5.45	1.41	1.37
26	BB	1050	A	C6-N1	-5.45	1.31	1.35
26	BB	1120	G	C2'-O2'	5.45	1.48	1.41
26	BB	1165	A	C4'-O4'	-5.45	1.38	1.45
26	BB	1876	A	C2-N3	5.45	1.38	1.33
26	BB	2690	U	P-O5'	5.45	1.65	1.59
26	BB	2752	C	N3-C4	-5.45	1.30	1.33
1	AA	395	C	C4'-O4'	-5.45	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	569	C	O3'-P	5.45	1.67	1.61
1	AA	959	A	C8-N7	-5.45	1.27	1.31
3	AC	23	C	N1-C6	5.45	1.40	1.37
4	AD	14	A	N3-C4	5.45	1.38	1.34
26	BB	430	A	C2'-C1'	5.45	1.59	1.53
26	BB	2391	G	C2'-C1'	5.45	1.59	1.53
26	BB	2654	A	N9-C4	5.45	1.41	1.37
1	AA	1326	U	N3-C4	5.45	1.43	1.38
26	BB	70	G	C8-N7	-5.45	1.27	1.30
26	BB	894	U	C4'-C3'	-5.45	1.47	1.52
26	BB	911	A	N9-C4	-5.45	1.34	1.37
26	BB	948	C	O4'-C1'	5.45	1.48	1.41
26	BB	1204	A	C4'-C3'	-5.45	1.47	1.52
26	BB	1252	G	C2-N2	5.45	1.40	1.34
26	BB	1518	C	C5-C6	5.45	1.38	1.34
26	BB	1613	G	C5'-C4'	5.45	1.57	1.51
26	BB	2444	G	C2-N3	5.45	1.37	1.32
26	BB	2623	G	C2-N3	5.45	1.37	1.32
1	AA	1196	A	N9-C8	-5.44	1.33	1.37
26	BB	117	G	C2'-C1'	5.44	1.59	1.53
26	BB	1082	U	C3'-O3'	-5.44	1.34	1.42
26	BB	2021	C	N3-C4	5.44	1.37	1.33
26	BB	2663	G	O3'-P	5.44	1.67	1.61
26	BB	2892	G	N7-C5	5.44	1.42	1.39
1	AA	25	C	C4-C5	5.44	1.47	1.43
1	AA	381	C	N1-C2	5.44	1.45	1.40
1	AA	553	A	N9-C4	-5.44	1.34	1.37
25	BA	6	G	O3'-P	5.44	1.67	1.61
26	BB	790	U	O3'-P	5.44	1.67	1.61
26	BB	1297	C	C5'-C4'	5.44	1.57	1.51
26	BB	1394	U	C5-C6	5.44	1.39	1.34
26	BB	1508	A	C2'-O2'	5.44	1.48	1.41
26	BB	2888	C	C2'-O2'	5.44	1.48	1.41
1	AA	570	G	C6-N1	5.44	1.43	1.39
1	AA	809	G	N7-C5	-5.44	1.35	1.39
1	AA	851	G	P-O5'	5.44	1.65	1.59
1	AA	933	G	C2'-C1'	5.44	1.59	1.53
1	AA	1049	U	C5'-C4'	-5.44	1.44	1.51
4	AD	75	C	C3'-O3'	-5.44	1.34	1.42
26	BB	575	A	C6-N1	5.44	1.39	1.35
26	BB	992	C	O5'-C5'	-5.44	1.34	1.42
26	BB	1052	C	N1-C2	5.44	1.45	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1100	C	C2-O2	-5.44	1.19	1.24
26	BB	1286	A	O3'-P	5.44	1.67	1.61
26	BB	1350	C	N3-C4	5.44	1.37	1.33
26	BB	1456	G	C5'-C4'	5.44	1.57	1.51
26	BB	1781	U	C4'-C3'	5.44	1.59	1.53
26	BB	2181	U	N1-C6	-5.44	1.33	1.38
26	BB	2574	G	N1-C2	5.44	1.42	1.37
26	BB	2851	A	O3'-P	5.44	1.67	1.61
1	AA	1033	G	N9-C8	5.44	1.41	1.37
26	BB	377	G	N3-C4	5.44	1.39	1.35
26	BB	2123	G	N7-C5	5.44	1.42	1.39
26	BB	2635	A	N9-C4	5.44	1.41	1.37
1	AA	1297	G	C5'-C4'	5.44	1.57	1.51
1	AA	1500	A	C4'-O4'	-5.44	1.38	1.45
26	BB	273	G	C5-C4	-5.44	1.34	1.38
26	BB	296	U	O4'-C1'	5.44	1.48	1.41
26	BB	643	A	N3-C4	5.44	1.38	1.34
26	BB	1383	A	N1-C2	-5.44	1.29	1.34
26	BB	1386	C	C4'-O4'	-5.44	1.38	1.45
26	BB	1995	U	C2-N3	5.44	1.41	1.37
26	BB	2218	G	N9-C8	-5.44	1.34	1.37
30	BF	16	GLU	CB-CG	5.44	1.62	1.52
47	BW	93	ARG	NE-CZ	5.44	1.40	1.33
1	AA	409	U	P-O5'	5.44	1.65	1.59
1	AA	482	A	C6-N6	5.44	1.38	1.33
1	AA	1269	A	N3-C4	5.44	1.38	1.34
1	AA	1422	G	C3'-O3'	5.44	1.49	1.42
26	BB	1511	G	O3'-P	5.44	1.67	1.61
26	BB	1696	G	C2'-C1'	5.44	1.59	1.53
26	BB	1722	A	O3'-P	5.44	1.67	1.61
26	BB	1745	A	C2-N3	-5.44	1.28	1.33
26	BB	1848	A	O5'-C5'	-5.44	1.34	1.42
26	BB	2552	OMU	O3'-P	5.44	1.67	1.61
26	BB	2670	A	C5-C6	-5.44	1.36	1.41
1	AA	79	G	P-O5'	5.43	1.65	1.59
1	AA	159	G	C6-N1	5.43	1.43	1.39
1	AA	215	C	C3'-C2'	5.43	1.58	1.52
1	AA	340	U	C5'-C4'	5.43	1.57	1.51
1	AA	1405	G	C4'-O4'	-5.43	1.38	1.45
25	BA	70	C	N1-C6	5.43	1.40	1.37
26	BB	126	A	N3-C4	5.43	1.38	1.34
26	BB	350	G	C5-C4	5.43	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	387	U	C4'-O4'	-5.43	1.38	1.45
26	BB	543	G	C6-O6	-5.43	1.19	1.24
26	BB	862	G	O4'-C1'	-5.43	1.34	1.41
26	BB	922	C	N1-C2	5.43	1.45	1.40
26	BB	1049	C	C2'-C1'	5.43	1.59	1.53
26	BB	1741	C	P-O5'	5.43	1.65	1.59
26	BB	1768	C	N1-C6	5.43	1.40	1.37
26	BB	2297	A	C5'-C4'	5.43	1.57	1.51
26	BB	2488	G	C4'-O4'	-5.43	1.38	1.45
26	BB	2528	U	C3'-C2'	5.43	1.58	1.52
26	BB	2804	U	C4'-C3'	-5.43	1.47	1.52
26	BB	2829	A	C2'-C1'	5.43	1.59	1.53
1	AA	271	C	P-O5'	5.43	1.65	1.59
1	AA	472	U	C4-C5	5.43	1.48	1.43
1	AA	610	U	P-O5'	5.43	1.65	1.59
25	BA	26	C	O3'-P	-5.43	1.54	1.61
25	BA	104	A	N9-C8	5.43	1.42	1.37
26	BB	34	U	N1-C6	-5.43	1.33	1.38
26	BB	36	G	C5-C4	5.43	1.42	1.38
26	BB	449	A	N3-C4	-5.43	1.31	1.34
26	BB	1525	A	C6-N1	5.43	1.39	1.35
26	BB	1608	A	N7-C5	5.43	1.42	1.39
1	AA	193	C	N3-C4	5.43	1.37	1.33
1	AA	1392	G	N9-C8	5.43	1.41	1.37
25	BA	118	C	C4'-C3'	5.43	1.59	1.53
26	BB	46	G	C5'-C4'	5.43	1.57	1.51
26	BB	368	A	C5'-C4'	5.43	1.57	1.51
26	BB	996	A	C6-N1	-5.43	1.31	1.35
26	BB	2344	U	C5'-C4'	5.43	1.57	1.51
42	BR	21	PRO	N-CD	-5.43	1.40	1.47
1	AA	1405	G	C5-C6	5.43	1.47	1.42
1	AA	1488	G	N3-C4	-5.43	1.31	1.35
26	BB	779	U	N3-C4	5.43	1.43	1.38
26	BB	1069	A	N1-C2	-5.43	1.29	1.34
26	BB	1651	G	O3'-P	5.43	1.67	1.61
26	BB	1759	A	C2'-O2'	-5.43	1.34	1.41
2	AB	74	C	P-O5'	5.43	1.65	1.59
6	AF	142	ARG	CZ-NH2	5.43	1.40	1.33
26	BB	205	G	C2-N2	-5.43	1.29	1.34
26	BB	1413	A	C5-C6	5.43	1.46	1.41
28	BD	208	GLY	CA-C	5.43	1.60	1.51
39	BO	47	GLU	CG-CD	5.43	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	29	U	C3'-O3'	5.43	1.49	1.42
1	AA	758	C	C4-C5	5.43	1.47	1.43
1	AA	1437	A	C8-N7	-5.43	1.27	1.31
25	BA	45	A	P-O5'	5.43	1.65	1.59
26	BB	8	C	C4'-C3'	-5.43	1.47	1.52
26	BB	607	U	N1-C6	5.43	1.42	1.38
26	BB	891	G	N7-C5	5.43	1.42	1.39
26	BB	1285	A	C2'-C1'	5.43	1.59	1.53
26	BB	2232	C	C2-N3	5.43	1.40	1.35
26	BB	2270	A	N1-C2	-5.43	1.29	1.34
26	BB	2283	C	C5'-C4'	5.43	1.57	1.51
1	AA	103	U	C4'-O4'	-5.42	1.38	1.45
1	AA	107	G	C2'-C1'	5.42	1.59	1.53
1	AA	284	C	C4-N4	-5.42	1.29	1.33
1	AA	345	C	C4-C5	5.42	1.47	1.43
1	AA	726	C	C4'-O4'	-5.42	1.38	1.45
1	AA	1397	C	P-O5'	5.42	1.65	1.59
26	BB	32	C	O3'-P	5.42	1.67	1.61
26	BB	827	U	P-O5'	5.42	1.65	1.59
26	BB	1255	U	O3'-P	5.42	1.67	1.61
26	BB	2008	C	P-O5'	5.42	1.65	1.59
26	BB	2178	C	N1-C6	-5.42	1.33	1.37
26	BB	2187	U	N1-C2	5.42	1.43	1.38
1	AA	650	G	N3-C4	5.42	1.39	1.35
1	AA	311	C	C2'-O2'	5.42	1.48	1.41
1	AA	742	G	C5-C4	-5.42	1.34	1.38
1	AA	1363	A	C5-C6	5.42	1.46	1.41
5	AE	109	SER	CB-OG	-5.42	1.35	1.42
26	BB	147	C	C4'-O4'	-5.42	1.38	1.45
26	BB	478	A	C2'-C1'	-5.42	1.47	1.53
26	BB	777	G	C6-N1	5.42	1.43	1.39
26	BB	1432	G	C2-N3	5.42	1.37	1.32
26	BB	1665	A	C3'-C2'	-5.42	1.46	1.52
26	BB	1855	U	C4-C5	5.42	1.48	1.43
26	BB	2175	C	C4'-O4'	-5.42	1.38	1.45
26	BB	2506	U	P-O5'	5.42	1.65	1.59
26	BB	2820	A	C6-N1	5.42	1.39	1.35
31	BG	64	PRO	N-CD	-5.42	1.40	1.47
26	BB	537	G	C6-N1	5.42	1.43	1.39
26	BB	806	C	C5-C6	5.42	1.38	1.34
26	BB	1059	G	N3-C4	5.42	1.39	1.35
26	BB	1500	G	O3'-P	5.42	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2412	A	C8-N7	-5.42	1.27	1.31
26	BB	2508	G	C4'-O4'	-5.42	1.38	1.45
26	BB	2540	C	C3'-C2'	-5.42	1.46	1.52
1	AA	260	G	O3'-P	-5.42	1.54	1.61
1	AA	290	C	C5'-C4'	5.42	1.57	1.51
1	AA	918	A	C8-N7	-5.42	1.27	1.31
1	AA	935	A	C5-C4	-5.42	1.34	1.38
1	AA	1015	G	C2'-C1'	-5.42	1.47	1.53
1	AA	1386	G	C2-N3	5.42	1.37	1.32
1	AA	1438	G	C8-N7	5.42	1.34	1.30
26	BB	250	G	O3'-P	-5.42	1.54	1.61
26	BB	918	A	N9-C4	-5.42	1.34	1.37
26	BB	1999	C	C4-N4	5.42	1.38	1.33
26	BB	2035	G	C2-N3	5.42	1.37	1.32
26	BB	2205	A	N7-C5	-5.42	1.35	1.39
26	BB	2589	A	N3-C4	5.42	1.38	1.34
26	BB	2829	A	C4'-C3'	5.42	1.59	1.53
1	AA	410	G	P-O5'	5.42	1.65	1.59
1	AA	814	A	C1'-N9	5.42	1.56	1.48
1	AA	1024	G	C5-C4	-5.42	1.34	1.38
1	AA	1097	C	O3'-P	5.42	1.67	1.61
1	AA	1489	G	O3'-P	5.42	1.67	1.61
1	AA	1514	G	C5'-C4'	5.42	1.57	1.51
25	BA	50	A	N3-C4	5.42	1.38	1.34
26	BB	1478	G	C2-N3	5.42	1.37	1.32
26	BB	1568	G	N3-C4	-5.42	1.31	1.35
26	BB	2096	C	N3-C4	5.42	1.37	1.33
1	AA	801	U	O3'-P	5.42	1.67	1.61
1	AA	926	G	N1-C2	5.42	1.42	1.37
26	BB	1753	G	C2-N2	-5.42	1.29	1.34
26	BB	2164	C	N3-C4	-5.42	1.30	1.33
1	AA	61	G	O5'-C5'	-5.41	1.34	1.42
1	AA	534	U	C4'-C3'	5.41	1.59	1.53
1	AA	1308	U	C2-N3	-5.41	1.33	1.37
26	BB	326	G	P-O5'	5.41	1.65	1.59
26	BB	948	C	P-O5'	5.41	1.65	1.59
26	BB	1268	A	C5-C4	-5.41	1.34	1.38
26	BB	2082	A	C5-C4	-5.41	1.34	1.38
26	BB	2432	A	N3-C4	5.41	1.38	1.34
1	AA	500	G	N7-C5	-5.41	1.36	1.39
26	BB	309	A	P-O5'	5.41	1.65	1.59
26	BB	316	C	C4-C5	5.41	1.47	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	271	C	C2'-C1'	-5.41	1.47	1.53
1	AA	606	G	N9-C4	-5.41	1.33	1.38
1	AA	870	U	C2-N3	5.41	1.41	1.37
1	AA	887	G	O3'-P	5.41	1.67	1.61
26	BB	225	C	C4'-O4'	-5.41	1.38	1.45
26	BB	577	G	N1-C2	5.41	1.42	1.37
26	BB	603	A	N3-C4	5.41	1.38	1.34
26	BB	933	A	C2'-O2'	5.41	1.48	1.41
26	BB	1363	C	C2-O2	-5.41	1.19	1.24
26	BB	1948	G	O3'-P	5.41	1.67	1.61
26	BB	2167	U	C4'-O4'	-5.41	1.38	1.45
26	BB	2323	G	C6-O6	-5.41	1.19	1.24
26	BB	2565	A	O3'-P	5.41	1.67	1.61
26	BB	2715	C	C5-C6	5.41	1.38	1.34
1	AA	1181	G	C2-N3	5.41	1.37	1.32
1	AA	1261	A	C6-N1	5.41	1.39	1.35
3	AC	26	U	C5'-C4'	5.41	1.57	1.51
4	AD	39	A	C6-N6	-5.41	1.29	1.33
26	BB	340	A	C2-N3	5.41	1.38	1.33
26	BB	371	A	N9-C4	-5.41	1.34	1.37
26	BB	602	A	C8-N7	-5.41	1.27	1.31
26	BB	653	U	C4'-O4'	-5.41	1.38	1.45
26	BB	961	C	C5'-C4'	5.41	1.57	1.51
26	BB	1905	C	N1-C2	5.41	1.45	1.40
26	BB	2325	G	C6-N1	-5.41	1.35	1.39
26	BB	2454	G	C4'-O4'	-5.41	1.38	1.45
1	AA	1511	G	O4'-C1'	5.41	1.48	1.41
26	BB	74	A	N3-C4	5.41	1.38	1.34
26	BB	2189	U	N3-C4	5.41	1.43	1.38
1	AA	53	A	N9-C8	5.41	1.42	1.37
1	AA	290	C	P-O5'	5.41	1.65	1.59
1	AA	530	G	N1-C2	5.41	1.42	1.37
1	AA	923	A	C3'-C2'	5.41	1.58	1.52
1	AA	962	C	C4-C5	5.41	1.47	1.43
1	AA	1012	A	N9-C4	5.41	1.41	1.37
1	AA	1517	G	C2'-O2'	5.41	1.48	1.41
3	AC	22	G	P-O5'	5.41	1.65	1.59
26	BB	151	C	C4'-O4'	-5.41	1.38	1.45
26	BB	206	U	C4-C5	5.41	1.48	1.43
26	BB	811	U	O4'-C1'	5.41	1.48	1.41
26	BB	2079	U	N1-C6	5.41	1.42	1.38
26	BB	2337	G	C8-N7	-5.41	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2521	C	C4'-C3'	-5.41	1.47	1.52
1	AA	57	G	C5-C4	-5.40	1.34	1.38
1	AA	174	A	C8-N7	-5.40	1.27	1.31
1	AA	791	G	C8-N7	-5.40	1.27	1.30
26	BB	198	C	C5'-C4'	5.40	1.57	1.51
26	BB	1780	A	C5-C4	5.40	1.42	1.38
26	BB	1861	G	C5-C6	5.40	1.47	1.42
44	BT	2	TYR	CG-CD2	5.40	1.46	1.39
1	AA	130	A	P-O5'	5.40	1.65	1.59
1	AA	505	G	N1-C2	5.40	1.42	1.37
1	AA	586	C	C5-C6	5.40	1.38	1.34
1	AA	1000	A	C2-N3	5.40	1.38	1.33
1	AA	1222	G	C2-N3	5.40	1.37	1.32
26	BB	965	C	C3'-C2'	5.40	1.58	1.52
26	BB	1278	C	N3-C4	5.40	1.37	1.33
26	BB	1599	U	C4'-O4'	-5.40	1.38	1.45
26	BB	1869	G	C4'-O4'	-5.40	1.38	1.45
26	BB	2110	G	C8-N7	-5.40	1.27	1.30
26	BB	2287	A	C3'-O3'	5.40	1.49	1.42
26	BB	2586	U	N1-C6	-5.40	1.33	1.38
26	BB	2719	G	C5'-C4'	5.40	1.57	1.51
1	AA	19	A	N7-C5	5.40	1.42	1.39
1	AA	271	C	C2-N3	-5.40	1.31	1.35
1	AA	889	A	C4'-C3'	-5.40	1.47	1.52
1	AA	964	A	N9-C4	-5.40	1.34	1.37
1	AA	1061	G	P-O5'	5.40	1.65	1.59
1	AA	1111	A	C4'-C3'	5.40	1.59	1.53
25	BA	103	U	N1-C2	5.40	1.43	1.38
26	BB	192	C	P-O5'	5.40	1.65	1.59
26	BB	260	G	C3'-C2'	-5.40	1.46	1.52
26	BB	956	G	N9-C4	-5.40	1.33	1.38
26	BB	1241	A	C3'-C2'	-5.40	1.46	1.52
26	BB	1367	A	N3-C4	-5.40	1.31	1.34
26	BB	1465	G	P-O5'	-5.40	1.54	1.59
26	BB	2408	U	C5-C6	5.40	1.39	1.34
26	BB	2875	C	O3'-P	5.40	1.67	1.61
1	AA	1145	A	N7-C5	-5.40	1.36	1.39
26	BB	91	A	N3-C4	5.40	1.38	1.34
26	BB	311	A	N1-C2	-5.40	1.29	1.34
26	BB	2649	C	C2-N3	-5.40	1.31	1.35
1	AA	297	G	P-O5'	5.40	1.65	1.59
1	AA	376	G	N7-C5	5.40	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	773	G	C2'-C1'	5.40	1.59	1.53
1	AA	1389	C	P-O5'	5.40	1.65	1.59
1	AA	1506	U	C3'-C2'	5.40	1.58	1.52
17	AQ	100	TRP	CD2-CE2	5.40	1.47	1.41
25	BA	89	U	N1-C2	5.40	1.43	1.38
25	BA	97	C	C2-N3	5.40	1.40	1.35
25	BA	104	A	O3'-P	5.40	1.67	1.61
26	BB	165	A	N3-C4	-5.40	1.31	1.34
26	BB	1069	A	C6-N1	5.40	1.39	1.35
26	BB	1177	G	O3'-P	5.40	1.67	1.61
26	BB	1652	A	C2'-O2'	-5.40	1.34	1.41
26	BB	2081	U	P-O5'	5.40	1.65	1.59
26	BB	2098	U	N3-C4	5.40	1.43	1.38
1	AA	114	U	C4'-O4'	-5.40	1.38	1.45
26	BB	205	G	N9-C8	5.40	1.41	1.37
26	BB	1364	G	C6-N1	5.40	1.43	1.39
1	AA	107	G	C2-N3	5.39	1.37	1.32
1	AA	619	U	C2-O2	5.39	1.27	1.22
1	AA	621	A	C4'-O4'	-5.39	1.38	1.45
1	AA	716	A	C4'-O4'	-5.39	1.38	1.45
1	AA	726	C	C5'-C4'	5.39	1.57	1.51
1	AA	830	G	N1-C2	5.39	1.42	1.37
1	AA	1525	G	N7-C5	5.39	1.42	1.39
3	AC	18	A	N9-C4	5.39	1.41	1.37
26	BB	582	A	C4'-O4'	-5.39	1.38	1.45
26	BB	623	C	P-O5'	-5.39	1.54	1.59
26	BB	793	A	N3-C4	5.39	1.38	1.34
26	BB	1121	C	C2'-O2'	-5.39	1.34	1.41
26	BB	1228	G	C2-N3	5.39	1.37	1.32
26	BB	1530	G	C2'-C1'	5.39	1.59	1.53
26	BB	2037	A	N3-C4	-5.39	1.31	1.34
1	AA	526	C	N3-C4	5.39	1.37	1.33
1	AA	890	G	C5'-C4'	5.39	1.57	1.51
1	AA	1061	G	C2-N2	5.39	1.40	1.34
1	AA	1368	A	C5-C6	-5.39	1.36	1.41
1	AA	1479	C	C4-C5	5.39	1.47	1.43
26	BB	122	G	N7-C5	-5.39	1.36	1.39
26	BB	620	G	C6-N1	5.39	1.43	1.39
26	BB	869	G	C8-N7	5.39	1.34	1.30
26	BB	1349	C	C5'-C4'	5.39	1.57	1.51
26	BB	2066	C	C2'-O2'	-5.39	1.34	1.41
26	BB	2315	G	N7-C5	5.39	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2376	A	N3-C4	5.39	1.38	1.34
26	BB	2709	G	N3-C4	5.39	1.39	1.35
26	BB	2867	G	C4'-O4'	-5.39	1.38	1.45
45	BU	8	ARG	CA-CB	5.39	1.65	1.53
1	AA	1228	C	N1-C6	-5.39	1.33	1.37
26	BB	790	U	N1-C6	5.39	1.42	1.38
26	BB	1438	U	N3-C4	5.39	1.43	1.38
26	BB	2181	U	N1-C2	5.39	1.43	1.38
26	BB	2490	G	O3'-P	5.39	1.67	1.61
26	BB	2736	A	O3'-P	5.39	1.67	1.61
1	AA	102	G	C6-O6	-5.39	1.19	1.24
1	AA	481	G	C6-N1	5.39	1.43	1.39
3	AC	14	G	C6-O6	-5.39	1.19	1.24
7	AG	75	TYR	CE2-CZ	5.39	1.45	1.38
25	BA	24	G	C5-C4	5.39	1.42	1.38
25	BA	100	G	N1-C2	5.39	1.42	1.37
26	BB	114	U	C5'-C4'	5.39	1.57	1.51
26	BB	374	A	C4'-C3'	-5.39	1.47	1.52
26	BB	707	G	C4'-C3'	-5.39	1.47	1.52
26	BB	1226	A	C6-N1	-5.39	1.31	1.35
26	BB	1926	U	C5'-C4'	5.39	1.57	1.51
26	BB	1992	G	C4'-C3'	5.39	1.59	1.53
26	BB	2277	G	C8-N7	5.39	1.34	1.30
26	BB	2288	A	C2'-O2'	-5.39	1.34	1.41
26	BB	2408	U	C4-O4	5.39	1.27	1.23
1	AA	295	C	C4'-C3'	5.39	1.59	1.53
1	AA	652	U	O3'-P	5.39	1.67	1.61
1	AA	1366	C	N3-C4	5.39	1.37	1.33
26	BB	290	U	P-O5'	5.39	1.65	1.59
26	BB	423	A	C5'-C4'	5.39	1.57	1.51
26	BB	902	C	C4-C5	5.39	1.47	1.43
26	BB	1443	U	C2-N3	5.39	1.41	1.37
26	BB	1988	G	N9-C4	5.39	1.42	1.38
26	BB	2903	U	C4-C5	5.39	1.48	1.43
1	AA	104	G	C2'-C1'	5.39	1.59	1.53
1	AA	209	U	C4-C5	5.39	1.48	1.43
1	AA	247	G	C2-N3	5.39	1.37	1.32
1	AA	538	G	O4'-C1'	-5.39	1.34	1.41
9	AI	25	TYR	CG-CD2	5.39	1.46	1.39
9	AI	59	TYR	CE1-CZ	5.39	1.45	1.38
25	BA	55	U	C4-O4	-5.39	1.19	1.23
26	BB	552	U	O3'-P	5.39	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	577	G	C4'-C3'	-5.39	1.47	1.52
26	BB	802	A	N1-C2	-5.39	1.29	1.34
26	BB	1070	A	N9-C4	5.39	1.41	1.37
26	BB	1294	U	O3'-P	5.39	1.67	1.61
1	AA	214	C	C5'-C4'	5.38	1.57	1.51
1	AA	1245	C	C4'-O4'	-5.38	1.38	1.45
25	BA	39	A	C5-C4	-5.38	1.34	1.38
25	BA	101	A	N3-C4	5.38	1.38	1.34
26	BB	116	C	C4-N4	-5.38	1.29	1.33
26	BB	424	G	N3-C4	5.38	1.39	1.35
26	BB	834	G	N9-C8	5.38	1.41	1.37
26	BB	1257	C	N3-C4	5.38	1.37	1.33
26	BB	1399	C	C4'-O4'	-5.38	1.38	1.45
26	BB	1735	A	C2'-O2'	5.38	1.48	1.41
26	BB	2397	G	O3'-P	5.38	1.67	1.61
1	AA	578	C	O3'-P	5.38	1.67	1.61
1	AA	828	U	C4-O4	5.38	1.27	1.23
1	AA	1142	G	N9-C4	5.38	1.42	1.38
26	BB	492	A	C5-C4	-5.38	1.34	1.38
26	BB	790	U	N1-C2	5.38	1.43	1.38
1	AA	234	C	C2'-C1'	5.38	1.59	1.53
1	AA	605	U	P-O5'	5.38	1.65	1.59
1	AA	1014	A	C5-C4	-5.38	1.34	1.38
1	AA	1532	U	O3'-P	5.38	1.67	1.61
25	BA	71	C	C1'-N1	5.38	1.56	1.48
26	BB	261	G	N3-C4	5.38	1.39	1.35
26	BB	1353	A	N3-C4	5.38	1.38	1.34
26	BB	1909	C	C5-C6	5.38	1.38	1.34
26	BB	2174	C	C2'-O2'	5.38	1.48	1.41
1	AA	1080	A	C5-C6	5.38	1.45	1.41
26	BB	1704	C	C2'-C1'	5.38	1.59	1.53
26	BB	2534	A	C6-N1	-5.38	1.31	1.35
1	AA	876	C	C4-C5	5.38	1.47	1.43
1	AA	1278	G	C5'-C4'	5.38	1.57	1.51
26	BB	337	C	C3'-C2'	5.38	1.58	1.52
26	BB	384	A	C3'-C2'	5.38	1.58	1.52
26	BB	593	U	C2-N3	5.38	1.41	1.37
26	BB	641	U	C2-N3	5.38	1.41	1.37
26	BB	1132	U	C4'-C3'	5.38	1.59	1.53
26	BB	1194	A	N3-C4	5.38	1.38	1.34
26	BB	2055	C	C2-N3	5.38	1.40	1.35
26	BB	2452	C	N1-C6	5.38	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	324	G	C3'-C2'	-5.38	1.46	1.52
1	AA	830	G	O3'-P	5.38	1.67	1.61
1	AA	882	C	N1-C6	5.38	1.40	1.37
1	AA	1469	C	C2'-C1'	-5.38	1.47	1.53
3	AC	53	G	C2'-C1'	-5.38	1.47	1.53
26	BB	1136	G	C6-N1	5.38	1.43	1.39
26	BB	1336	A	C6-N6	5.38	1.38	1.33
26	BB	1807	G	N3-C4	5.38	1.39	1.35
26	BB	2270	A	C6-N1	-5.38	1.31	1.35
52	B1	45	GLY	CA-C	5.38	1.60	1.51
52	B1	52	PHE	CG-CD1	5.38	1.46	1.38
1	AA	810	C	N3-C4	-5.38	1.30	1.33
1	AA	938	A	P-O5'	5.38	1.65	1.59
1	AA	953	G	C8-N7	-5.38	1.27	1.30
1	AA	1286	U	C4-C5	5.38	1.48	1.43
1	AA	1355	G	O4'-C1'	5.38	1.48	1.41
3	AC	41	A	C5-C4	-5.38	1.34	1.38
26	BB	15	G	C6-N1	5.38	1.43	1.39
26	BB	637	A	C4'-O4'	-5.38	1.38	1.45
26	BB	2638	G	C2-N3	5.38	1.37	1.32
1	AA	85	U	C4'-O4'	-5.37	1.38	1.45
1	AA	869	G	C2'-C1'	5.37	1.59	1.53
26	BB	126	A	C5-C4	-5.37	1.34	1.38
26	BB	233	A	N3-C4	5.37	1.38	1.34
26	BB	479	A	C6-N6	5.37	1.38	1.33
26	BB	699	A	C2'-O2'	5.37	1.48	1.41
26	BB	1027	A	C5'-C4'	5.37	1.57	1.51
26	BB	1031	G	N7-C5	5.37	1.42	1.39
26	BB	1293	C	C5'-C4'	5.37	1.57	1.51
26	BB	2357	G	C5-C6	5.37	1.47	1.42
1	AA	309	A	C2'-C1'	-5.37	1.47	1.53
1	AA	321	A	N3-C4	5.37	1.38	1.34
1	AA	522	C	N1-C6	-5.37	1.33	1.37
2	AB	3	G	N7-C5	-5.37	1.36	1.39
4	AD	29	C	N3-C4	5.37	1.37	1.33
26	BB	1007	C	C1'-N1	5.37	1.56	1.48
26	BB	1091	G	C8-N7	-5.37	1.27	1.30
26	BB	1122	G	C3'-C2'	-5.37	1.46	1.52
26	BB	2355	G	C2-N2	-5.37	1.29	1.34
26	BB	2430	A	P-O5'	5.37	1.65	1.59
1	AA	910	C	C2-O2	-5.37	1.19	1.24
26	BB	405	U	N1-C2	5.37	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	855	G	C3'-C2'	5.37	1.58	1.52
26	BB	1344	U	C4-O4	5.37	1.27	1.23
1	AA	424	G	C5-C6	5.37	1.47	1.42
1	AA	593	U	O3'-P	5.37	1.67	1.61
1	AA	704	A	N3-C4	5.37	1.38	1.34
1	AA	825	A	C5'-C4'	5.37	1.57	1.51
1	AA	988	G	C3'-O3'	5.37	1.49	1.42
1	AA	1289	A	C5'-C4'	5.37	1.57	1.51
1	AA	1458	G	O5'-C5'	-5.37	1.34	1.42
4	AD	43	G	N9-C4	-5.37	1.33	1.38
26	BB	208	C	C2-O2	-5.37	1.19	1.24
26	BB	1076	C	N1-C6	5.37	1.40	1.37
26	BB	2228	G	C2-N2	-5.37	1.29	1.34
26	BB	2828	G	C8-N7	5.37	1.34	1.30
36	BL	46	PRO	N-CD	-5.37	1.40	1.47
1	AA	649	A	N9-C8	-5.37	1.33	1.37
2	AB	5	G	C5-C6	5.37	1.47	1.42
1	AA	120	A	N9-C8	5.37	1.42	1.37
1	AA	344	A	N9-C8	5.37	1.42	1.37
1	AA	1354	U	C3'-C2'	-5.37	1.46	1.52
26	BB	178	G	O3'-P	5.37	1.67	1.61
26	BB	470	A	C2'-C1'	5.37	1.59	1.53
26	BB	1365	A	O3'-P	5.37	1.67	1.61
26	BB	1823	G	O5'-C5'	-5.37	1.34	1.42
26	BB	1969	A	O3'-P	5.37	1.67	1.61
26	BB	2008	C	C4-N4	-5.37	1.29	1.33
26	BB	2064	C	N1-C6	5.37	1.40	1.37
1	AA	382	A	P-O5'	5.36	1.65	1.59
1	AA	792	A	C4'-O4'	-5.36	1.38	1.45
1	AA	819	A	N7-C5	5.36	1.42	1.39
1	AA	1479	C	C2'-O2'	5.36	1.48	1.41
26	BB	189	G	C2'-C1'	-5.36	1.47	1.53
26	BB	779	U	C5'-C4'	5.36	1.57	1.51
26	BB	804	A	N9-C8	-5.36	1.33	1.37
26	BB	1596	A	C3'-O3'	5.36	1.49	1.42
26	BB	1860	G	C6-N1	5.36	1.43	1.39
26	BB	2032	G	C4'-O4'	-5.36	1.38	1.45
26	BB	2105	U	N3-C4	5.36	1.43	1.38
26	BB	2345	G	C4'-C3'	-5.36	1.47	1.52
26	BB	2545	G	N9-C4	-5.36	1.33	1.38
26	BB	2882	A	C6-N6	-5.36	1.29	1.33
1	AA	1538	C	C4-N4	5.36	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	68	C	C3'-C2'	-5.36	1.46	1.52
25	BA	80	U	C4-O4	-5.36	1.19	1.23
26	BB	694	U	N1-C2	5.36	1.43	1.38
26	BB	2232	C	O3'-P	5.36	1.67	1.61
26	BB	2646	C	C2-N3	5.36	1.40	1.35
46	BV	5	GLU	CG-CD	5.36	1.59	1.51
1	AA	344	A	C5-C4	-5.36	1.34	1.38
1	AA	441	A	C8-N7	-5.36	1.27	1.31
1	AA	1037	C	C1'-N1	5.36	1.56	1.48
1	AA	1302	C	P-O5'	5.36	1.65	1.59
1	AA	1435	G	C6-N1	5.36	1.43	1.39
25	BA	92	C	O3'-P	5.36	1.67	1.61
26	BB	687	C	P-O5'	5.36	1.65	1.59
26	BB	734	A	C4'-O4'	-5.36	1.38	1.45
26	BB	909	A	C5'-C4'	5.36	1.57	1.51
26	BB	945	A	N7-C5	5.36	1.42	1.39
26	BB	1011	G	N3-C4	5.36	1.39	1.35
26	BB	1020	A	N3-C4	5.36	1.38	1.34
26	BB	1032	A	N9-C8	5.36	1.42	1.37
26	BB	1343	G	N1-C2	5.36	1.42	1.37
26	BB	1895	C	C5-C6	5.36	1.38	1.34
26	BB	2111	U	C2-O2	-5.36	1.17	1.22
26	BB	2664	G	C6-N1	-5.36	1.35	1.39
1	AA	641	U	N1-C6	-5.36	1.33	1.38
1	AA	857	C	C4-C5	5.36	1.47	1.43
3	AC	43	U	C2'-C1'	5.36	1.59	1.53
25	BA	103	U	C2-N3	5.36	1.41	1.37
26	BB	604	G	P-O5'	-5.36	1.54	1.59
26	BB	981	A	C4'-O4'	-5.36	1.38	1.45
26	BB	1768	C	C5'-C4'	5.36	1.57	1.51
26	BB	1977	A	C4'-C3'	-5.36	1.47	1.52
57	B6	63	TYR	CE1-CZ	5.36	1.45	1.38
1	AA	751	U	C2-O2	5.36	1.27	1.22
1	AA	1100	C	N1-C2	5.36	1.45	1.40
1	AA	1300	G	C4'-O4'	-5.36	1.38	1.45
2	AB	64	U	P-O5'	5.36	1.65	1.59
25	BA	6	G	N3-C4	-5.36	1.31	1.35
26	BB	172	A	N9-C8	5.36	1.42	1.37
26	BB	191	A	N9-C8	5.36	1.42	1.37
26	BB	281	C	N3-C4	5.36	1.37	1.33
26	BB	507	A	O5'-C5'	-5.36	1.34	1.42
26	BB	1242	U	C2'-O2'	-5.36	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1445	G	C5-C4	5.36	1.42	1.38
26	BB	1715	G	C8-N7	5.36	1.34	1.30
26	BB	2391	G	N7-C5	5.36	1.42	1.39
26	BB	2718	G	N3-C4	5.36	1.39	1.35
1	AA	846	G	C4'-O4'	-5.36	1.38	1.45
1	AA	892	A	C6-N6	5.36	1.38	1.33
1	AA	1211	U	N1-C2	5.36	1.43	1.38
1	AA	1335	U	C4'-O4'	-5.36	1.38	1.45
2	AB	65	C	C2'-C1'	5.36	1.59	1.53
25	BA	104	A	N7-C5	-5.36	1.36	1.39
26	BB	138	U	C4'-O4'	-5.36	1.38	1.45
26	BB	155	A	C5-C4	5.36	1.42	1.38
26	BB	1050	A	C5-C6	5.36	1.45	1.41
26	BB	1341	G	N7-C5	-5.36	1.36	1.39
26	BB	1436	G	N1-C2	-5.36	1.33	1.37
26	BB	1488	C	C4'-O4'	-5.36	1.38	1.45
26	BB	1863	G	C2'-C1'	-5.36	1.47	1.53
26	BB	2880	C	C3'-O3'	5.36	1.49	1.42
57	B6	63	TYR	CE2-CZ	5.36	1.45	1.38
58	B7	31	PRO	N-CD	-5.36	1.40	1.47
1	AA	540	G	C6-O6	-5.35	1.19	1.24
26	BB	100	U	O5'-C5'	5.35	1.53	1.44
26	BB	473	G	C6-N1	5.35	1.43	1.39
26	BB	539	G	C4'-O4'	-5.35	1.38	1.45
26	BB	973	A	C2-N3	5.35	1.38	1.33
26	BB	2026	U	P-O5'	-5.35	1.54	1.59
1	AA	242	G	N7-C5	-5.35	1.36	1.39
1	AA	763	G	C2-N3	5.35	1.37	1.32
1	AA	910	C	P-O5'	-5.35	1.54	1.59
25	BA	9	G	C2-N3	5.35	1.37	1.32
25	BA	49	C	C2-O2	-5.35	1.19	1.24
26	BB	86	G	C6-N1	5.35	1.43	1.39
26	BB	934	U	C5'-C4'	5.35	1.57	1.51
26	BB	1659	G	C6-N1	-5.35	1.35	1.39
26	BB	1748	C	P-O5'	5.35	1.65	1.59
26	BB	2062	A	C8-N7	-5.35	1.27	1.31
1	AA	370	C	O5'-C5'	-5.35	1.34	1.42
26	BB	1663	G	N3-C4	5.35	1.39	1.35
26	BB	2390	U	C4-C5	5.35	1.48	1.43
1	AA	380	G	C5-C4	-5.35	1.34	1.38
1	AA	463	U	C3'-C2'	-5.35	1.46	1.52
1	AA	936	C	N1-C2	5.35	1.45	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1001	C	C4-C5	5.35	1.47	1.43
23	AW	79	THR	CB-OG1	-5.35	1.32	1.43
26	BB	1262	A	N9-C8	5.35	1.42	1.37
26	BB	2472	G	C4'-C3'	5.35	1.59	1.53
48	BX	82	TYR	CE1-CZ	5.35	1.45	1.38
57	B6	62	PRO	N-CD	-5.35	1.40	1.47
1	AA	489	C	O4'-C1'	5.35	1.48	1.41
1	AA	1220	G	N3-C4	5.35	1.39	1.35
25	BA	5	U	C5-C6	5.35	1.39	1.34
26	BB	257	C	C4'-O4'	-5.35	1.38	1.45
26	BB	301	G	C5'-C4'	5.35	1.57	1.51
26	BB	906	U	C5-C6	5.35	1.39	1.34
26	BB	1145	C	C4'-O4'	-5.35	1.38	1.45
26	BB	2019	A	C5-C4	5.35	1.42	1.38
26	BB	2469	A	C3'-O3'	-5.35	1.34	1.42
1	AA	640	A	C5-C6	5.35	1.45	1.41
2	AB	56	C	O3'-P	5.35	1.67	1.61
26	BB	1682	G	C2-N3	5.35	1.37	1.32
26	BB	2354	C	C2-N3	-5.35	1.31	1.35
26	BB	2623	G	P-O5'	5.35	1.65	1.59
1	AA	1027	C	C4'-C3'	5.34	1.59	1.53
26	BB	72	U	N3-C4	-5.34	1.33	1.38
26	BB	87	U	C4'-C3'	5.34	1.59	1.53
26	BB	95	A	N9-C4	5.34	1.41	1.37
26	BB	732	C	C4'-O4'	-5.34	1.38	1.45
26	BB	980	A	C4'-O4'	-5.34	1.38	1.45
26	BB	1460	U	C3'-C2'	5.34	1.58	1.52
26	BB	2044	C	C5'-C4'	5.34	1.57	1.51
26	BB	2172	U	C5-C6	5.34	1.39	1.34
27	BC	39	VAL	CB-CG2	5.34	1.64	1.52
1	AA	949	A	O4'-C1'	-5.34	1.34	1.41
1	AA	1457	G	C4'-O4'	-5.34	1.38	1.45
26	BB	1360	G	N9-C8	5.34	1.41	1.37
26	BB	1435	G	C5-C4	5.34	1.42	1.38
26	BB	1842	G	O3'-P	5.34	1.67	1.61
26	BB	2377	A	P-O5'	5.34	1.65	1.59
26	BB	2697	G	N7-C5	5.34	1.42	1.39
1	AA	334	C	C2-N3	5.34	1.40	1.35
1	AA	350	G	N1-C2	5.34	1.42	1.37
1	AA	394	G	C2'-C1'	-5.34	1.47	1.53
1	AA	1257	A	N7-C5	-5.34	1.36	1.39
26	BB	549	G	N1-C2	5.34	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	980	A	C6-N6	5.34	1.38	1.33
26	BB	1368	G	C5-C4	-5.34	1.34	1.38
26	BB	1440	U	N1-C6	-5.34	1.33	1.38
26	BB	2540	C	N1-C6	5.34	1.40	1.37
26	BB	2758	A	C3'-C2'	5.34	1.58	1.52
26	BB	2870	C	C5'-C4'	5.34	1.57	1.51
1	AA	646	G	C5'-C4'	-5.34	1.45	1.51
1	AA	878	A	N3-C4	5.34	1.38	1.34
1	AA	885	G	C3'-C2'	5.34	1.58	1.52
1	AA	1006	G	C2-N3	5.34	1.37	1.32
1	AA	1515	G	C6-O6	-5.34	1.19	1.24
2	AB	29	G	C4'-O4'	-5.34	1.38	1.45
19	AS	45	GLU	N-CA	5.34	1.57	1.46
25	BA	61	G	N9-C4	5.34	1.42	1.38
26	BB	709	U	O3'-P	5.34	1.67	1.61
26	BB	836	G	C2-N3	5.34	1.37	1.32
26	BB	861	A	N9-C8	5.34	1.42	1.37
26	BB	1266	G	C3'-O3'	5.34	1.49	1.42
26	BB	1865	U	C2'-C1'	-5.34	1.47	1.53
26	BB	2252	G	C5'-C4'	5.34	1.57	1.51
26	BB	2330	G	C6-N1	5.34	1.43	1.39
26	BB	2561	U	N1-C6	-5.34	1.33	1.38
26	BB	2833	U	C3'-O3'	5.34	1.49	1.42
26	BB	70	G	O5'-C5'	-5.34	1.34	1.42
26	BB	635	C	C4-C5	5.34	1.47	1.43
26	BB	701	G	C8-N7	5.34	1.34	1.30
26	BB	713	G	N9-C4	5.34	1.42	1.38
26	BB	816	C	C2'-C1'	5.34	1.59	1.53
26	BB	2061	G	C5-C6	5.34	1.47	1.42
26	BB	2314	A	C5-C6	5.34	1.45	1.41
26	BB	2473	U	C2-N3	5.34	1.41	1.37
47	BW	5	ARG	NE-CZ	5.34	1.40	1.33
1	AA	216	U	C4'-O4'	-5.34	1.38	1.45
1	AA	336	A	C2-N3	5.34	1.38	1.33
1	AA	1089	G	C5'-C4'	5.34	1.57	1.51
4	AD	27	G	C5-C6	5.34	1.47	1.42
26	BB	784	G	C3'-C2'	5.34	1.58	1.52
26	BB	817	C	C5-C6	5.34	1.38	1.34
26	BB	853	C	P-O5'	5.34	1.65	1.59
26	BB	897	C	C4-N4	-5.34	1.29	1.33
26	BB	1322	A	C2-N3	-5.34	1.28	1.33
26	BB	1774	C	N3-C4	5.34	1.37	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2429	G	P-O5'	5.34	1.65	1.59
26	BB	2510	C	N3-C4	-5.34	1.30	1.33
26	BB	2516	A	C4'-C3'	5.34	1.59	1.53
26	BB	2732	G	N3-C4	-5.34	1.31	1.35
1	AA	79	G	C3'-C2'	5.33	1.58	1.52
1	AA	446	G	O3'-P	5.33	1.67	1.61
1	AA	725	G	C2'-C1'	-5.33	1.47	1.53
26	BB	605	G	C5-C6	5.33	1.47	1.42
26	BB	811	U	O5'-C5'	-5.33	1.34	1.42
30	BF	85	PHE	CG-CD1	5.33	1.46	1.38
1	AA	358	U	C2'-O2'	-5.33	1.34	1.41
1	AA	798	U	C2'-O2'	5.33	1.48	1.41
1	AA	844	G	C8-N7	5.33	1.34	1.30
1	AA	1264	U	N1-C6	5.33	1.42	1.38
1	AA	1296	C	C2-O2	5.33	1.29	1.24
26	BB	613	A	P-O5'	5.33	1.65	1.59
26	BB	752	A	N9-C4	5.33	1.41	1.37
26	BB	2434	A	N9-C4	5.33	1.41	1.37
26	BB	2674	G	N9-C8	5.33	1.41	1.37
1	AA	1102	A	C3'-C2'	-5.33	1.46	1.52
1	AA	1264	U	N1-C2	5.33	1.43	1.38
1	AA	1330	U	C4'-O4'	-5.33	1.38	1.45
25	BA	24	G	C2-N3	5.33	1.37	1.32
26	BB	187	G	N3-C4	5.33	1.39	1.35
26	BB	305	C	C4'-C3'	5.33	1.59	1.53
26	BB	986	C	C4'-O4'	-5.33	1.38	1.45
26	BB	1439	A	N7-C5	5.33	1.42	1.39
26	BB	1678	A	O4'-C1'	5.33	1.48	1.41
26	BB	2461	A	N7-C5	-5.33	1.36	1.39
26	BB	2657	A	P-O5'	5.33	1.65	1.59
1	AA	524	G	N1-C2	5.33	1.42	1.37
1	AA	545	C	C4-C5	5.33	1.47	1.43
26	BB	1518	C	C2-N3	5.33	1.40	1.35
26	BB	1519	G	C2-N3	5.33	1.37	1.32
26	BB	1772	A	C5'-C4'	5.33	1.57	1.51
26	BB	1988	G	P-O5'	5.33	1.65	1.59
1	AA	195	A	N1-C2	5.33	1.39	1.34
1	AA	842	U	C4'-O4'	-5.33	1.38	1.45
26	BB	33	C	C4-C5	5.33	1.47	1.43
26	BB	297	G	N3-C4	5.33	1.39	1.35
26	BB	1990	C	O3'-P	5.33	1.67	1.61
26	BB	2421	G	N1-C2	5.33	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2526	G	C5-C4	-5.33	1.34	1.38
26	BB	2593	U	C3'-O3'	-5.33	1.34	1.42
1	AA	1258	G	P-O5'	5.33	1.65	1.59
26	BB	130	C	C5'-C4'	5.33	1.57	1.51
26	BB	250	G	C1'-N9	-5.33	1.39	1.46
26	BB	360	U	N3-C4	5.33	1.43	1.38
26	BB	509	C	O3'-P	5.33	1.67	1.61
26	BB	1520	U	C4'-O4'	-5.33	1.38	1.45
26	BB	2758	A	N9-C4	5.33	1.41	1.37
1	AA	1398	A	C2'-O2'	5.33	1.48	1.41
1	AA	1523	G	N1-C2	5.33	1.42	1.37
26	BB	28	A	N7-C5	5.33	1.42	1.39
26	BB	532	A	C6-N1	5.33	1.39	1.35
26	BB	556	A	C5'-C4'	5.33	1.57	1.51
26	BB	666	A	C2-N3	5.33	1.38	1.33
26	BB	973	A	O3'-P	5.33	1.67	1.61
26	BB	1256	G	C5-C4	5.33	1.42	1.38
26	BB	2006	C	C4-C5	5.33	1.47	1.43
27	BC	134	ARG	NE-CZ	5.33	1.40	1.33
1	AA	153	C	N1-C6	5.32	1.40	1.37
1	AA	251	G	C4'-C3'	5.32	1.59	1.53
1	AA	299	G	C2-N2	-5.32	1.29	1.34
1	AA	634	C	C2-O2	-5.32	1.19	1.24
1	AA	667	G	O3'-P	-5.32	1.54	1.61
1	AA	962	C	C5'-C4'	5.32	1.57	1.51
1	AA	1140	C	C4'-O4'	-5.32	1.38	1.45
26	BB	700	G	C5'-C4'	5.32	1.57	1.51
26	BB	1005	C	C2-N3	-5.32	1.31	1.35
26	BB	2045	C	C5-C6	5.32	1.38	1.34
26	BB	2277	G	C2-N3	5.32	1.37	1.32
1	AA	296	U	C5-C6	5.32	1.39	1.34
1	AA	306	A	C2-N3	5.32	1.38	1.33
2	AB	34	C	C4-C5	-5.32	1.38	1.43
26	BB	914	G	N9-C4	5.32	1.42	1.38
26	BB	1473	G	C6-N1	5.32	1.43	1.39
26	BB	1753	G	C5'-C4'	5.32	1.57	1.51
26	BB	1756	G	C4'-O4'	-5.32	1.38	1.45
26	BB	2677	G	C2-N2	-5.32	1.29	1.34
1	AA	701	U	C4'-O4'	-5.32	1.38	1.45
22	AV	79	TYR	CE1-CZ	5.32	1.45	1.38
25	BA	6	G	C3'-O3'	5.32	1.49	1.42
26	BB	653	U	C5'-C4'	5.32	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1157	G	N9-C8	-5.32	1.34	1.37
26	BB	1222	U	C1'-N1	5.32	1.56	1.48
26	BB	1351	C	C4-N4	-5.32	1.29	1.33
26	BB	1968	G	C8-N7	-5.32	1.27	1.30
26	BB	1997	C	N1-C6	-5.32	1.33	1.37
26	BB	2415	G	C5-C6	-5.32	1.37	1.42
26	BB	2700	A	C6-N6	-5.32	1.29	1.33
1	AA	109	A	N9-C4	5.32	1.41	1.37
1	AA	546	A	C3'-C2'	5.32	1.58	1.52
1	AA	1323	G	C2-N2	5.32	1.39	1.34
26	BB	420	C	N3-C4	5.32	1.37	1.33
26	BB	1394	U	C4-O4	-5.32	1.19	1.23
26	BB	1719	G	C3'-O3'	5.32	1.49	1.42
26	BB	2007	U	O4'-C1'	5.32	1.48	1.41
1	AA	190	A	O3'-P	-5.32	1.54	1.61
1	AA	488	C	C5'-C4'	5.32	1.57	1.51
1	AA	497	G	O3'-P	5.32	1.67	1.61
1	AA	698	G	P-O5'	5.32	1.65	1.59
1	AA	898	G	N9-C4	-5.32	1.33	1.38
1	AA	1255	G	N9-C4	-5.32	1.33	1.38
2	AB	36	A	C2'-O2'	5.32	1.48	1.41
26	BB	1031	G	C2-N2	-5.32	1.29	1.34
26	BB	1671	U	C1'-N1	5.32	1.56	1.48
26	BB	2469	A	C5-C4	-5.32	1.35	1.38
28	BD	265	PHE	CB-CG	5.32	1.60	1.51
30	BF	162	ARG	NE-CZ	5.32	1.40	1.33
1	AA	764	C	C3'-C2'	5.32	1.58	1.52
1	AA	895	G	P-O5'	5.32	1.65	1.59
1	AA	1284	C	N3-C4	5.32	1.37	1.33
26	BB	373	U	P-O5'	5.32	1.65	1.59
26	BB	514	A	C6-N6	5.32	1.38	1.33
26	BB	1611	C	N3-C4	5.32	1.37	1.33
26	BB	2019	A	O3'-P	5.32	1.67	1.61
26	BB	2158	A	C2'-O2'	-5.32	1.34	1.41
26	BB	2327	A	C8-N7	-5.32	1.27	1.31
26	BB	2356	U	C5'-C4'	5.32	1.57	1.51
1	AA	1268	G	C4'-O4'	-5.31	1.38	1.45
1	AA	1480	A	C4'-C3'	5.31	1.58	1.53
26	BB	1392	A	C5-C4	-5.31	1.35	1.38
1	AA	871	U	N1-C6	-5.31	1.33	1.38
1	AA	1050	G	N9-C4	5.31	1.42	1.38
26	BB	619	G	N9-C8	5.31	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	947	A	N7-C5	-5.31	1.36	1.39
26	BB	1025	G	C5-C4	-5.31	1.34	1.38
26	BB	1719	G	N7-C5	-5.31	1.36	1.39
26	BB	1834	U	P-O5'	5.31	1.65	1.59
26	BB	2407	A	N9-C4	-5.31	1.34	1.37
26	BB	2847	U	C5'-C4'	5.31	1.57	1.51
28	BD	84	PRO	N-CD	-5.31	1.40	1.47
1	AA	1441	A	P-O5'	5.31	1.65	1.59
26	BB	7	G	N1-C2	5.31	1.42	1.37
26	BB	351	C	C5-C6	5.31	1.38	1.34
26	BB	2034	U	C5-C6	5.31	1.39	1.34
1	AA	251	G	P-O5'	5.31	1.65	1.59
1	AA	565	U	C4-O4	-5.31	1.19	1.23
1	AA	726	C	C4-N4	-5.31	1.29	1.33
1	AA	818	G	C5'-C4'	5.31	1.57	1.51
1	AA	1064	G	O4'-C1'	5.31	1.48	1.41
2	AB	50	G	N9-C8	-5.31	1.34	1.37
25	BA	28	C	C4-N4	5.31	1.38	1.33
26	BB	376	G	C2-N3	5.31	1.36	1.32
26	BB	379	G	C2-N3	5.31	1.36	1.32
26	BB	512	G	C5'-C4'	5.31	1.57	1.51
26	BB	1112	G	C2-N3	5.31	1.36	1.32
26	BB	1223	G	C5'-C4'	5.31	1.57	1.51
26	BB	1705	A	C5-C4	-5.31	1.35	1.38
26	BB	2237	G	C6-N1	-5.31	1.35	1.39
26	BB	2362	C	C4'-C3'	5.31	1.58	1.53
26	BB	2433	A	C5'-C4'	5.31	1.57	1.51
26	BB	2481	G	C5-C4	5.31	1.42	1.38
26	BB	2548	U	C5-C6	5.31	1.39	1.34
26	BB	2692	G	N7-C5	5.31	1.42	1.39
1	AA	122	G	C2-N3	5.31	1.36	1.32
1	AA	1200	C	C2-N3	5.31	1.40	1.35
1	AA	1426	G	C2'-O2'	5.31	1.48	1.41
3	AC	54	U	C4'-O4'	-5.31	1.38	1.45
26	BB	353	C	C2-N3	5.31	1.40	1.35
26	BB	353	C	C4-C5	5.31	1.47	1.43
26	BB	509	C	N1-C2	5.31	1.45	1.40
26	BB	803	U	N1-C6	5.31	1.42	1.38
26	BB	961	C	N1-C6	5.31	1.40	1.37
26	BB	974	G	C8-N7	-5.31	1.27	1.30
26	BB	1128	G	C8-N7	5.31	1.34	1.30
26	BB	1841	U	C5-C6	5.31	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1891	G	O4'-C1'	5.31	1.48	1.41
26	BB	2433	A	C5-C4	-5.31	1.35	1.38
26	BB	2666	C	C5'-C4'	5.31	1.57	1.51
26	BB	2867	G	C6-O6	5.31	1.28	1.24
1	AA	310	G	C4'-O4'	-5.31	1.38	1.45
1	AA	408	A	P-O5'	5.31	1.65	1.59
1	AA	617	G	C8-N7	5.31	1.34	1.30
1	AA	773	G	C2'-O2'	-5.31	1.34	1.41
1	AA	1147	C	N1-C6	-5.31	1.33	1.37
26	BB	231	A	C2'-C1'	5.31	1.59	1.53
26	BB	613	A	O3'-P	5.31	1.67	1.61
26	BB	1008	A	N3-C4	5.31	1.38	1.34
26	BB	1540	G	C8-N7	-5.31	1.27	1.30
26	BB	1753	G	C6-N1	5.31	1.43	1.39
26	BB	2739	U	P-O5'	5.31	1.65	1.59
53	B2	49	ARG	NE-CZ	5.31	1.40	1.33
1	AA	279	A	O3'-P	5.30	1.67	1.61
2	AB	53	G	N1-C2	-5.30	1.33	1.37
26	BB	914	G	P-O5'	5.30	1.65	1.59
26	BB	1697	G	O3'-P	5.30	1.67	1.61
26	BB	1809	A	O3'-P	5.30	1.67	1.61
26	BB	1928	A	C4'-O4'	-5.30	1.38	1.45
26	BB	2112	G	C4'-O4'	-5.30	1.38	1.45
26	BB	2825	G	N9-C8	-5.30	1.34	1.37
1	AA	195	A	P-O5'	-5.30	1.54	1.59
1	AA	356	A	C4'-C3'	5.30	1.58	1.53
1	AA	1281	C	C2'-O2'	5.30	1.48	1.41
3	AC	20	G	N1-C2	5.30	1.42	1.37
10	AJ	69	ARG	NE-CZ	5.30	1.40	1.33
26	BB	224	U	O3'-P	5.30	1.67	1.61
26	BB	602	A	C3'-C2'	-5.30	1.47	1.52
26	BB	763	G	N3-C4	5.30	1.39	1.35
26	BB	836	G	P-O5'	5.30	1.65	1.59
26	BB	929	U	C2-O2	5.30	1.27	1.22
26	BB	1332	G	N3-C4	5.30	1.39	1.35
26	BB	2540	C	O3'-P	5.30	1.67	1.61
26	BB	2824	C	C3'-C2'	5.30	1.58	1.52
1	AA	179	A	C5-C4	-5.30	1.35	1.38
1	AA	642	A	N7-C5	5.30	1.42	1.39
1	AA	878	A	C4'-O4'	-5.30	1.38	1.45
1	AA	1084	G	C4'-O4'	-5.30	1.38	1.45
1	AA	1513	A	C5'-C4'	5.30	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	732	C	C2'-C1'	5.30	1.59	1.53
26	BB	1534	U	P-O5'	5.30	1.65	1.59
26	BB	1552	A	C5-C6	-5.30	1.36	1.41
26	BB	1739	A	C5-C4	5.30	1.42	1.38
26	BB	1798	U	C2'-O2'	-5.30	1.34	1.41
26	BB	2175	C	N3-C4	5.30	1.37	1.33
1	AA	118	U	C2'-C1'	-5.30	1.47	1.53
1	AA	277	C	N3-C4	5.30	1.37	1.33
1	AA	376	G	C8-N7	-5.30	1.27	1.30
1	AA	867	G	C5'-C4'	5.30	1.57	1.51
1	AA	897	C	C4-C5	5.30	1.47	1.43
1	AA	1121	U	C2-N3	5.30	1.41	1.37
1	AA	1493	A	C4'-O4'	-5.30	1.38	1.45
21	AU	31	TYR	CG-CD1	5.30	1.46	1.39
26	BB	91	A	C6-N1	5.30	1.39	1.35
26	BB	1003	G	N9-C8	5.30	1.41	1.37
26	BB	1237	A	O3'-P	-5.30	1.54	1.61
26	BB	1402	U	C4'-O4'	-5.30	1.38	1.45
26	BB	1574	C	C4'-O4'	-5.30	1.38	1.45
26	BB	1800	C	C2-N3	-5.30	1.31	1.35
26	BB	2239	G	N7-C5	-5.30	1.36	1.39
26	BB	2288	A	O3'-P	5.30	1.67	1.61
36	BL	34	ARG	CZ-NH2	5.30	1.40	1.33
1	AA	69	G	N3-C4	5.30	1.39	1.35
1	AA	176	C	C2'-C1'	5.30	1.59	1.53
1	AA	213	G	C2-N3	5.30	1.36	1.32
1	AA	932	C	C2-N3	5.30	1.40	1.35
26	BB	126	A	N7-C5	-5.30	1.36	1.39
1	AA	288	A	C5-C6	-5.30	1.36	1.41
1	AA	327	A	N9-C8	-5.30	1.33	1.37
1	AA	382	A	N9-C8	5.30	1.42	1.37
1	AA	808	C	C2'-O2'	5.30	1.48	1.41
1	AA	963	G	N7-C5	5.30	1.42	1.39
1	AA	1081	A	C2-N3	5.30	1.38	1.33
1	AA	1208	C	C4'-C3'	5.30	1.58	1.53
1	AA	1272	G	C5-C6	5.30	1.47	1.42
1	AA	1333	A	C5-C6	5.30	1.45	1.41
1	AA	1382	C	C4'-O4'	-5.30	1.38	1.45
1	AA	1425	U	C4'-C3'	-5.30	1.47	1.52
26	BB	492	A	N1-C2	-5.30	1.29	1.34
26	BB	792	A	N7-C5	5.30	1.42	1.39
26	BB	1603	A	N3-C4	5.30	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2054	A	C2'-C1'	5.30	1.59	1.53
26	BB	2608	G	O3'-P	-5.30	1.54	1.61
26	BB	2665	A	C4'-C3'	-5.30	1.47	1.52
26	BB	2776	A	C6-N6	5.30	1.38	1.33
26	BB	743	A	P-O5'	-5.29	1.54	1.59
26	BB	1071	G	C4'-O4'	-5.29	1.38	1.45
1	AA	466	A	N3-C4	5.29	1.38	1.34
1	AA	513	C	O3'-P	5.29	1.67	1.61
1	AA	713	G	C3'-O3'	5.29	1.49	1.42
1	AA	759	A	C5-C6	-5.29	1.36	1.41
1	AA	1040	U	C5-C6	5.29	1.39	1.34
1	AA	1521	C	C5'-C4'	5.29	1.57	1.51
4	AD	25	U	N1-C2	5.29	1.43	1.38
25	BA	27	C	N3-C4	5.29	1.37	1.33
26	BB	111	A	C5-C6	5.29	1.45	1.41
26	BB	263	G	N9-C8	5.29	1.41	1.37
26	BB	431	U	C3'-C2'	5.29	1.58	1.52
26	BB	953	G	C8-N7	5.29	1.34	1.30
26	BB	1041	G	C2'-C1'	5.29	1.59	1.53
26	BB	2068	U	C5'-C4'	5.29	1.57	1.51
26	BB	2615	U	C4'-O4'	-5.29	1.38	1.45
28	BD	216	ARG	CZ-NH1	5.29	1.40	1.33
1	AA	166	U	C5'-C4'	5.29	1.57	1.51
1	AA	340	U	C4-C5	5.29	1.48	1.43
1	AA	416	G	C5-C6	5.29	1.47	1.42
1	AA	859	G	O3'-P	5.29	1.67	1.61
1	AA	894	G	O3'-P	5.29	1.67	1.61
1	AA	1003	G	C8-N7	5.29	1.34	1.30
1	AA	1052	U	N1-C2	5.29	1.43	1.38
1	AA	1054	C	C5'-C4'	5.29	1.57	1.51
1	AA	1115	U	C4-O4	5.29	1.27	1.23
26	BB	103	A	C8-N7	-5.29	1.27	1.31
26	BB	222	A	N3-C4	5.29	1.38	1.34
26	BB	598	U	C1'-N1	5.29	1.56	1.48
26	BB	1054	A	P-O5'	5.29	1.65	1.59
26	BB	1125	G	C8-N7	5.29	1.34	1.30
26	BB	1162	G	C1'-N9	5.29	1.56	1.48
26	BB	1186	G	O3'-P	5.29	1.67	1.61
26	BB	1296	G	C5-C4	-5.29	1.34	1.38
26	BB	1738	G	N9-C8	-5.29	1.34	1.37
26	BB	1983	G	P-O5'	5.29	1.65	1.59
26	BB	2119	A	C2'-C1'	-5.29	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2246	G	N1-C2	5.29	1.42	1.37
26	BB	2275	C	O4'-C1'	5.29	1.48	1.41
1	AA	649	A	C4'-O4'	-5.29	1.38	1.45
1	AA	1101	A	C6-N1	5.29	1.39	1.35
1	AA	1524	C	C2'-C1'	5.29	1.59	1.53
3	AC	41	A	N9-C8	5.29	1.42	1.37
26	BB	180	G	O4'-C1'	5.29	1.48	1.41
26	BB	1737	G	C2-N3	5.29	1.36	1.32
26	BB	2663	G	O4'-C1'	-5.29	1.34	1.41
1	AA	561	U	C2'-C1'	5.29	1.59	1.53
1	AA	856	C	O3'-P	5.29	1.67	1.61
1	AA	1305	G	N7-C5	-5.29	1.36	1.39
2	AB	27	C	C4'-C3'	-5.29	1.47	1.52
26	BB	5	A	C6-N1	-5.29	1.31	1.35
26	BB	185	G	C5-C4	5.29	1.42	1.38
26	BB	404	A	C8-N7	-5.29	1.27	1.31
26	BB	428	A	P-O5'	5.29	1.65	1.59
26	BB	980	A	C5-C4	5.29	1.42	1.38
26	BB	2453	A	C5'-C4'	5.29	1.57	1.51
26	BB	2712	C	C4'-O4'	-5.29	1.38	1.45
29	BE	169	ARG	CD-NE	5.29	1.55	1.46
4	AD	44	A	N9-C4	5.29	1.41	1.37
26	BB	267	C	C4-C5	-5.29	1.38	1.43
26	BB	1449	G	C2-N3	5.29	1.36	1.32
26	BB	1782	U	C1'-N1	5.29	1.56	1.48
1	AA	235	C	N3-C4	-5.29	1.30	1.33
1	AA	353	A	C5'-C4'	5.29	1.57	1.51
26	BB	42	A	C4'-O4'	-5.29	1.38	1.45
26	BB	184	C	C3'-O3'	5.29	1.49	1.42
26	BB	249	C	C4'-O4'	-5.29	1.38	1.45
26	BB	695	G	O3'-P	5.29	1.67	1.61
26	BB	735	A	C6-N1	5.29	1.39	1.35
26	BB	743	A	N3-C4	5.29	1.38	1.34
26	BB	1565	C	N3-C4	5.29	1.37	1.33
26	BB	2039	U	C4'-O4'	-5.29	1.38	1.45
26	BB	2078	C	C4-N4	5.29	1.38	1.33
26	BB	2435	A	C5'-C4'	5.29	1.57	1.51
26	BB	2489	U	C4-C5	5.29	1.48	1.43
1	AA	137	U	C3'-O3'	5.28	1.49	1.42
1	AA	322	C	O3'-P	5.28	1.67	1.61
1	AA	1049	U	C2'-C1'	5.28	1.59	1.53
1	AA	1075	U	N1-C6	5.28	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1109	C	N3-C4	-5.28	1.30	1.33
1	AA	1442	G	C4'-C3'	-5.28	1.47	1.52
2	AB	73	G	N3-C4	5.28	1.39	1.35
14	AN	68	ARG	CA-CB	5.28	1.65	1.53
26	BB	154	U	C5'-C4'	5.28	1.57	1.51
26	BB	476	G	N9-C8	-5.28	1.34	1.37
26	BB	1023	U	C4'-C3'	5.28	1.58	1.53
26	BB	1253	A	C2-N3	5.28	1.38	1.33
26	BB	1328	A	C5-C4	-5.28	1.35	1.38
26	BB	1757	A	C6-N1	5.28	1.39	1.35
26	BB	2269	G	N7-C5	-5.28	1.36	1.39
4	AD	5	G	C8-N7	5.28	1.34	1.30
26	BB	79	C	C1'-N1	5.28	1.56	1.48
26	BB	132	G	C8-N7	-5.28	1.27	1.30
26	BB	1512	C	C4-C5	5.28	1.47	1.43
1	AA	173	U	N1-C2	5.28	1.43	1.38
1	AA	1238	A	C5'-C4'	5.28	1.57	1.51
2	AB	70	C	O3'-P	5.28	1.67	1.61
3	AC	35	G	N9-C8	5.28	1.41	1.37
26	BB	184	C	C4'-O4'	-5.28	1.38	1.45
26	BB	511	U	C2-O2	5.28	1.27	1.22
26	BB	774	G	C6-O6	-5.28	1.19	1.24
26	BB	1613	G	N1-C2	5.28	1.42	1.37
26	BB	1811	G	O3'-P	5.28	1.67	1.61
26	BB	2035	G	N7-C5	-5.28	1.36	1.39
1	AA	907	A	O3'-P	5.28	1.67	1.61
1	AA	1306	A	C8-N7	-5.28	1.27	1.31
1	AA	1324	A	N9-C8	5.28	1.42	1.37
1	AA	1453	G	C6-N1	5.28	1.43	1.39
26	BB	24	G	N9-C8	-5.28	1.34	1.37
26	BB	931	U	C4-O4	-5.28	1.19	1.23
26	BB	1042	G	C2'-C1'	-5.28	1.47	1.53
26	BB	1866	A	N9-C4	5.28	1.41	1.37
1	AA	191	G	C2-N2	-5.28	1.29	1.34
1	AA	451	A	N9-C8	-5.28	1.33	1.37
1	AA	907	A	C2'-O2'	5.28	1.48	1.41
1	AA	1501	C	C2-O2	-5.28	1.19	1.24
6	AF	87	ARG	CZ-NH1	5.28	1.40	1.33
26	BB	240	C	N3-C4	-5.28	1.30	1.33
26	BB	602	A	O3'-P	5.28	1.67	1.61
26	BB	1052	C	C4-C5	-5.28	1.38	1.43
26	BB	1713	A	C3'-C2'	-5.28	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1859	U	C2-N3	5.28	1.41	1.37
1	AA	296	U	N1-C2	5.28	1.43	1.38
1	AA	371	A	P-O5'	5.28	1.65	1.59
1	AA	474	G	N9-C8	-5.28	1.34	1.37
1	AA	779	C	C4-N4	-5.28	1.29	1.33
1	AA	1014	A	O3'-P	5.28	1.67	1.61
1	AA	1020	G	N1-C2	5.28	1.42	1.37
1	AA	1533	C	C5'-C4'	5.28	1.57	1.51
26	BB	590	A	C2'-C1'	5.28	1.59	1.53
26	BB	1458	U	C5-C6	5.28	1.38	1.34
26	BB	1938	A	C6-N1	5.28	1.39	1.35
26	BB	2078	C	P-O5'	5.28	1.65	1.59
26	BB	2420	C	C5'-C4'	5.28	1.57	1.51
26	BB	2863	C	P-O5'	-5.28	1.54	1.59
58	B7	30	GLU	CG-CD	5.28	1.59	1.51
1	AA	1283	U	C2-O2	5.27	1.27	1.22
26	BB	1031	G	C8-N7	-5.27	1.27	1.30
26	BB	2577	A	N3-C4	5.27	1.38	1.34
1	AA	177	G	P-O5'	5.27	1.65	1.59
1	AA	396	C	C3'-O3'	5.27	1.49	1.42
1	AA	571	U	N1-C6	-5.27	1.33	1.38
1	AA	704	A	C4'-O4'	-5.27	1.38	1.45
25	BA	97	C	C2'-C1'	-5.27	1.47	1.53
26	BB	493	G	N1-C2	5.27	1.42	1.37
26	BB	612	G	C2'-O2'	5.27	1.48	1.41
26	BB	1071	G	C2'-O2'	5.27	1.48	1.41
26	BB	1149	G	C2'-O2'	-5.27	1.34	1.41
26	BB	1589	U	O3'-P	5.27	1.67	1.61
26	BB	1783	A	N7-C5	-5.27	1.36	1.39
26	BB	2065	C	C4'-O4'	-5.27	1.38	1.45
1	AA	460	A	P-O5'	5.27	1.65	1.59
1	AA	663	A	N3-C4	5.27	1.38	1.34
4	AD	77	A	N9-C8	5.27	1.42	1.37
26	BB	545	U	C4'-C3'	5.27	1.58	1.53
26	BB	851	C	C2'-O2'	5.27	1.48	1.41
26	BB	2168	G	C5'-C4'	5.27	1.57	1.51
26	BB	2311	A	N7-C5	5.27	1.42	1.39
1	AA	718	A	N3-C4	5.27	1.38	1.34
1	AA	862	C	P-O5'	5.27	1.65	1.59
1	AA	1141	C	C4'-O4'	-5.27	1.38	1.45
26	BB	741	U	N1-C2	5.27	1.43	1.38
26	BB	1207	C	C2-O2	-5.27	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1783	A	C5-C4	-5.27	1.35	1.38
26	BB	2556	C	C4-C5	5.27	1.47	1.43
26	BB	2603	G	N9-C4	-5.27	1.33	1.38
26	BB	2700	A	C2-N3	-5.27	1.28	1.33
26	BB	2711	A	N9-C8	-5.27	1.33	1.37
26	BB	2748	A	N9-C4	-5.27	1.34	1.37
1	AA	552	U	C1'-N1	5.27	1.56	1.48
1	AA	934	C	C5'-C4'	5.27	1.57	1.51
4	AD	20	G	N9-C4	5.27	1.42	1.38
25	BA	35	C	C4'-C3'	5.27	1.58	1.53
25	BA	67	G	C6-N1	-5.27	1.35	1.39
25	BA	119	A	N9-C4	5.27	1.41	1.37
26	BB	29	U	C3'-C2'	5.27	1.58	1.52
26	BB	122	G	C6-O6	-5.27	1.19	1.24
26	BB	453	A	C4'-O4'	-5.27	1.38	1.45
26	BB	667	U	N3-C4	5.27	1.43	1.38
26	BB	785	G	C2-N2	-5.27	1.29	1.34
26	BB	976	G	N7-C5	-5.27	1.36	1.39
26	BB	1359	A	N3-C4	-5.27	1.31	1.34
26	BB	1798	U	C5'-C4'	5.27	1.57	1.51
26	BB	2029	G	C2'-C1'	5.27	1.59	1.53
26	BB	2337	G	P-O5'	5.27	1.65	1.59
26	BB	2358	A	N9-C4	5.27	1.41	1.37
53	B2	16	CYS	CB-SG	5.27	1.91	1.82
26	BB	2332	C	C4-C5	5.27	1.47	1.43
1	AA	504	C	N1-C6	5.26	1.40	1.37
1	AA	687	A	C2-N3	5.26	1.38	1.33
1	AA	888	G	C6-O6	-5.26	1.19	1.24
1	AA	1426	G	C6-O6	-5.26	1.19	1.24
1	AA	1465	A	N9-C8	5.26	1.42	1.37
26	BB	397	U	C4-C5	5.26	1.48	1.43
26	BB	479	A	C4'-C3'	5.26	1.58	1.53
26	BB	1239	G	N1-C2	5.26	1.42	1.37
26	BB	1250	G	C4'-O4'	-5.26	1.38	1.45
26	BB	1681	G	O3'-P	-5.26	1.54	1.61
26	BB	1905	C	C4'-O4'	-5.26	1.38	1.45
26	BB	2493	U	C4'-O4'	-5.26	1.38	1.45
26	BB	2671	G	P-O5'	5.26	1.65	1.59
26	BB	2831	G	C8-N7	5.26	1.34	1.30
1	AA	1010	U	O4'-C1'	5.26	1.48	1.41
1	AA	1281	C	C2-N3	5.26	1.40	1.35
3	AC	24	A	O3'-P	5.26	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	AC	48	C	C4-N4	5.26	1.38	1.33
26	BB	578	G	N9-C8	-5.26	1.34	1.37
26	BB	811	U	O3'-P	5.26	1.67	1.61
26	BB	2243	U	C5'-C4'	5.26	1.57	1.51
26	BB	2513	A	C6-N6	5.26	1.38	1.33
1	AA	100	G	N3-C4	5.26	1.39	1.35
1	AA	411	A	C2'-C1'	5.26	1.59	1.53
1	AA	699	C	N1-C6	-5.26	1.33	1.37
1	AA	968	A	C2-N3	5.26	1.38	1.33
1	AA	1437	A	O3'-P	-5.26	1.54	1.61
1	AA	1514	G	P-O5'	5.26	1.65	1.59
4	AD	54	G	C8-N7	5.26	1.34	1.30
26	BB	305	C	C2-N3	5.26	1.40	1.35
26	BB	507	A	N9-C4	-5.26	1.34	1.37
26	BB	917	A	N7-C5	-5.26	1.36	1.39
26	BB	1242	U	N1-C2	-5.26	1.33	1.38
26	BB	1420	A	C6-N1	5.26	1.39	1.35
26	BB	1813	G	C2'-O2'	5.26	1.48	1.41
26	BB	2868	A	C2'-C1'	5.26	1.59	1.53
1	AA	266	G	N3-C4	5.26	1.39	1.35
1	AA	674	G	C5-C4	-5.26	1.34	1.38
1	AA	676	A	P-O5'	5.26	1.65	1.59
1	AA	1261	A	C4'-O4'	-5.26	1.38	1.45
26	BB	831	G	C2-N3	5.26	1.36	1.32
26	BB	1259	G	C8-N7	-5.26	1.27	1.30
26	BB	1340	U	C2-N3	5.26	1.41	1.37
26	BB	1465	G	N9-C4	5.26	1.42	1.38
26	BB	1951	U	C4-O4	5.26	1.27	1.23
26	BB	1965	C	C4'-O4'	-5.26	1.38	1.45
26	BB	2075	U	C4'-C3'	-5.26	1.47	1.52
26	BB	2816	G	C4'-O4'	-5.26	1.38	1.45
1	AA	743	A	C1'-N9	5.26	1.56	1.48
1	AA	1314	C	N3-C4	5.26	1.37	1.33
1	AA	1452	C	C5-C6	5.26	1.38	1.34
26	BB	20	C	P-O5'	5.26	1.65	1.59
26	BB	1516	G	C6-N1	-5.26	1.35	1.39
1	AA	82	G	C5'-C4'	-5.26	1.45	1.51
1	AA	252	U	C4-O4	-5.26	1.19	1.23
1	AA	843	U	C4'-O4'	-5.26	1.38	1.45
1	AA	965	U	C2-O2	5.26	1.27	1.22
1	AA	971	G	N3-C4	-5.26	1.31	1.35
1	AA	1109	C	C4'-C3'	5.26	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1396	A	N3-C4	5.26	1.38	1.34
26	BB	471	A	C5-C6	5.26	1.45	1.41
26	BB	548	G	P-O5'	-5.26	1.54	1.59
26	BB	927	A	N7-C5	5.26	1.42	1.39
26	BB	1159	U	C4'-C3'	5.26	1.58	1.53
26	BB	1742	U	N3-C4	-5.26	1.33	1.38
26	BB	1861	G	N7-C5	-5.26	1.36	1.39
26	BB	1941	C	O4'-C1'	5.26	1.48	1.41
26	BB	2312	U	C5-C6	5.26	1.38	1.34
36	BL	44	TYR	CG-CD2	5.26	1.46	1.39
1	AA	543	U	C4-O4	-5.25	1.19	1.23
1	AA	787	A	O3'-P	5.25	1.67	1.61
1	AA	1046	A	N9-C8	5.25	1.42	1.37
26	BB	40	U	C2-N3	5.25	1.41	1.37
26	BB	173	A	O3'-P	5.25	1.67	1.61
26	BB	485	C	O3'-P	5.25	1.67	1.61
26	BB	1673	G	P-O5'	5.25	1.65	1.59
26	BB	2390	U	N3-C4	5.25	1.43	1.38
26	BB	2687	U	C5'-C4'	5.25	1.57	1.51
1	AA	316	C	N1-C2	-5.25	1.34	1.40
1	AA	1227	A	O3'-P	5.25	1.67	1.61
1	AA	1332	A	C3'-C2'	5.25	1.58	1.52
7	AG	107	GLY	CA-C	5.25	1.60	1.51
26	BB	190	A	C6-N1	-5.25	1.31	1.35
26	BB	505	A	N9-C4	5.25	1.41	1.37
26	BB	787	C	C4-C5	5.25	1.47	1.43
26	BB	1175	A	C2-N3	5.25	1.38	1.33
26	BB	1339	G	C4'-O4'	-5.25	1.38	1.45
26	BB	1598	A	C8-N7	-5.25	1.27	1.31
26	BB	1899	A	N7-C5	-5.25	1.36	1.39
26	BB	2654	A	C5-C4	5.25	1.42	1.38
1	AA	40	C	N3-C4	5.25	1.37	1.33
1	AA	151	A	N7-C5	5.25	1.42	1.39
1	AA	164	G	C2-N3	5.25	1.36	1.32
1	AA	238	A	C3'-C2'	5.25	1.58	1.52
1	AA	691	G	P-O5'	5.25	1.65	1.59
1	AA	1448	C	C5-C6	5.25	1.38	1.34
26	BB	981	A	N3-C4	-5.25	1.31	1.34
26	BB	1138	G	N9-C8	-5.25	1.34	1.37
26	BB	1240	U	C1'-N1	5.25	1.56	1.48
26	BB	1524	G	C3'-O3'	-5.25	1.34	1.42
26	BB	1662	U	O3'-P	5.25	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2067	G	C5'-C4'	5.25	1.57	1.51
26	BB	2137	U	C2-N3	5.25	1.41	1.37
26	BB	2351	G	C5-C4	-5.25	1.34	1.38
26	BB	2415	G	C8-N7	-5.25	1.27	1.30
26	BB	2459	A	C5'-C4'	5.25	1.57	1.51
26	BB	2881	U	C2'-C1'	5.25	1.59	1.53
1	AA	1060	U	P-O5'	5.25	1.65	1.59
1	AA	1390	U	C2-N3	5.25	1.41	1.37
1	AA	1467	C	C5-C6	5.25	1.38	1.34
1	AA	1515	G	C5'-C4'	5.25	1.57	1.51
26	BB	302	C	C4'-O4'	-5.25	1.38	1.45
26	BB	869	G	C3'-C2'	5.25	1.58	1.52
26	BB	921	C	C4'-C3'	-5.25	1.47	1.52
26	BB	933	A	N9-C4	5.25	1.41	1.37
26	BB	1940	U	C4-C5	5.25	1.48	1.43
1	AA	550	G	C2'-C1'	5.25	1.59	1.53
1	AA	996	A	C3'-O3'	5.25	1.49	1.42
1	AA	1525	G	O3'-P	5.25	1.67	1.61
26	BB	266	G	C4'-C3'	5.25	1.58	1.53
26	BB	478	A	N3-C4	5.25	1.38	1.34
26	BB	1089	A	N3-C4	5.25	1.38	1.34
26	BB	1477	A	C5'-C4'	5.25	1.57	1.51
26	BB	1936	A	C5-C4	-5.25	1.35	1.38
26	BB	2204	G	C2-N3	5.25	1.36	1.32
26	BB	2531	A	C3'-C2'	5.25	1.58	1.52
26	BB	2876	G	N9-C4	5.25	1.42	1.38
1	AA	176	C	N3-C4	-5.25	1.30	1.33
1	AA	285	C	C2-N3	5.25	1.40	1.35
1	AA	1047	G	O4'-C1'	5.25	1.48	1.41
1	AA	1255	G	C5-C6	5.25	1.47	1.42
1	AA	1271	A	C3'-C2'	-5.25	1.47	1.52
1	AA	1305	G	C5-C4	5.25	1.42	1.38
1	AA	1449	C	C4'-C3'	-5.25	1.47	1.52
26	BB	136	G	C4'-O4'	-5.25	1.38	1.45
26	BB	433	C	P-O5'	5.25	1.65	1.59
26	BB	663	G	C2'-C1'	-5.25	1.47	1.53
26	BB	734	A	N1-C2	-5.25	1.29	1.34
26	BB	1123	C	C5'-C4'	5.25	1.57	1.51
26	BB	2428	G	C8-N7	5.25	1.34	1.30
26	BB	2471	A	O4'-C1'	5.25	1.48	1.41
26	BB	2645	G	N9-C4	5.25	1.42	1.38
26	BB	2854	G	C1'-N9	5.25	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	BQ	99	TYR	CG-CD2	-5.25	1.32	1.39
1	AA	158	G	O4'-C1'	5.25	1.48	1.41
1	AA	1201	A	C5-C4	-5.25	1.35	1.38
26	BB	471	A	C4'-C3'	5.25	1.58	1.53
26	BB	558	U	C4'-C3'	5.25	1.58	1.53
26	BB	1934	C	C4-N4	-5.25	1.29	1.33
1	AA	187	G	O4'-C1'	-5.24	1.34	1.41
1	AA	419	C	N3-C4	5.24	1.37	1.33
1	AA	510	A	O3'-P	5.24	1.67	1.61
1	AA	511	C	N1-C2	5.24	1.45	1.40
1	AA	570	G	C2'-C1'	5.24	1.59	1.53
1	AA	662	U	N1-C2	5.24	1.43	1.38
1	AA	665	A	N3-C4	-5.24	1.31	1.34
1	AA	1395	C	N1-C6	-5.24	1.34	1.37
1	AA	1437	A	O5'-C5'	-5.24	1.34	1.42
26	BB	133	U	C4'-O4'	-5.24	1.38	1.45
26	BB	703	U	C3'-C2'	-5.24	1.47	1.52
26	BB	909	A	C4'-O4'	-5.24	1.38	1.45
26	BB	2209	G	C8-N7	-5.24	1.27	1.30
43	BS	44	TYR	CE1-CZ	5.24	1.45	1.38
1	AA	152	A	C8-N7	-5.24	1.27	1.31
26	BB	235	U	C4'-O4'	-5.24	1.38	1.45
1	AA	448	A	O3'-P	5.24	1.67	1.61
1	AA	869	G	C4'-O4'	-5.24	1.38	1.45
1	AA	1468	A	N7-C5	-5.24	1.36	1.39
25	BA	19	C	N3-C4	-5.24	1.30	1.33
26	BB	646	U	C2'-C1'	5.24	1.59	1.53
26	BB	1116	G	N7-C5	-5.24	1.36	1.39
26	BB	1754	A	N9-C8	5.24	1.42	1.37
26	BB	2174	C	N3-C4	5.24	1.37	1.33
26	BB	2588	G	O3'-P	5.24	1.67	1.61
1	AA	442	G	C2'-C1'	5.24	1.59	1.53
1	AA	668	G	P-O5'	-5.24	1.54	1.59
1	AA	987	G	C1'-N9	5.24	1.56	1.48
1	AA	1064	G	C5-C4	-5.24	1.34	1.38
1	AA	1276	G	C2-N3	5.24	1.36	1.32
1	AA	1335	U	C2-O2	5.24	1.27	1.22
1	AA	1449	C	C2-N3	5.24	1.40	1.35
4	AD	57	C	C4'-C3'	-5.24	1.47	1.52
25	BA	6	G	P-O5'	5.24	1.65	1.59
26	BB	50	U	O3'-P	5.24	1.67	1.61
26	BB	216	A	C8-N7	-5.24	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	708	G	C8-N7	-5.24	1.27	1.30
26	BB	923	G	N9-C4	5.24	1.42	1.38
26	BB	1422	G	C3'-C2'	-5.24	1.47	1.52
26	BB	2098	U	C4-O4	-5.24	1.19	1.23
1	AA	1026	G	N9-C8	-5.24	1.34	1.37
26	BB	79	C	C4-N4	5.24	1.38	1.33
26	BB	2095	A	N3-C4	5.24	1.38	1.34
1	AA	54	C	N1-C6	5.24	1.40	1.37
1	AA	183	C	N3-C4	5.24	1.37	1.33
1	AA	447	G	P-O5'	5.24	1.65	1.59
1	AA	1210	C	C2'-O2'	5.24	1.48	1.41
2	AB	22	G	C5-C4	-5.24	1.34	1.38
25	BA	64	G	N1-C2	5.24	1.42	1.37
26	BB	47	C	P-O5'	5.24	1.65	1.59
26	BB	376	G	C5'-C4'	5.24	1.57	1.51
26	BB	952	G	O3'-P	5.24	1.67	1.61
26	BB	1703	G	N3-C4	-5.24	1.31	1.35
26	BB	2002	G	C4'-O4'	-5.24	1.38	1.45
26	BB	2377	A	C5'-C4'	5.24	1.57	1.51
26	BB	2555	U	C5-C6	5.24	1.38	1.34
1	AA	736	C	C3'-C2'	5.23	1.58	1.52
1	AA	1307	U	C2-O2	5.23	1.27	1.22
26	BB	1860	G	C4'-O4'	-5.23	1.38	1.45
26	BB	2257	U	C2-O2	-5.23	1.17	1.22
1	AA	14	U	C4-C5	5.23	1.48	1.43
26	BB	365	U	C2'-C1'	5.23	1.59	1.53
26	BB	432	A	C6-N1	5.23	1.39	1.35
26	BB	763	G	C2-N3	5.23	1.36	1.32
26	BB	965	C	C5-C6	5.23	1.38	1.34
26	BB	1600	C	C3'-C2'	-5.23	1.47	1.52
26	BB	2179	C	C4'-C3'	-5.23	1.47	1.52
26	BB	2502	G	C5-C6	5.23	1.47	1.42
26	BB	2821	A	O4'-C1'	5.23	1.48	1.41
1	AA	92	U	C4-C5	5.23	1.48	1.43
1	AA	565	U	C2'-O2'	5.23	1.48	1.41
1	AA	939	G	C6-O6	-5.23	1.19	1.24
2	AB	52	A	P-O5'	-5.23	1.54	1.59
26	BB	21	A	N7-C5	-5.23	1.36	1.39
26	BB	686	U	C2'-O2'	5.23	1.48	1.41
26	BB	966	G	P-O5'	5.23	1.65	1.59
26	BB	975	A	C4'-C3'	-5.23	1.47	1.52
26	BB	1582	C	C4-C5	5.23	1.47	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1888	G	N3-C4	5.23	1.39	1.35
26	BB	2677	G	N9-C8	-5.23	1.34	1.37
1	AA	985	C	C1'-N1	5.23	1.56	1.48
26	BB	550	C	N3-C4	5.23	1.37	1.33
26	BB	1749	A	N9-C4	5.23	1.41	1.37
1	AA	476	U	C3'-O3'	-5.23	1.34	1.42
1	AA	597	G	C4'-O4'	-5.23	1.38	1.45
1	AA	895	G	C2-N3	5.23	1.36	1.32
1	AA	1388	C	N1-C6	5.23	1.40	1.37
2	AB	73	G	C2'-C1'	5.23	1.59	1.53
26	BB	118	A	C5'-C4'	5.23	1.57	1.51
26	BB	293	U	N1-C2	5.23	1.43	1.38
26	BB	478	A	C5-C6	5.23	1.45	1.41
26	BB	505	A	C4'-O4'	-5.23	1.38	1.45
26	BB	1786	A	N9-C4	5.23	1.41	1.37
26	BB	2061	G	C6-N1	-5.23	1.35	1.39
26	BB	2282	G	N1-C2	5.23	1.42	1.37
26	BB	2341	G	N9-C4	-5.23	1.33	1.38
26	BB	2347	C	C4'-O4'	-5.23	1.38	1.45
26	BB	2406	A	P-O5'	5.23	1.65	1.59
26	BB	2462	C	P-O5'	5.23	1.65	1.59
1	AA	760	G	N3-C4	5.23	1.39	1.35
26	BB	148	U	C4-C5	5.23	1.48	1.43
26	BB	255	A	N3-C4	5.23	1.38	1.34
26	BB	291	G	N1-C2	5.23	1.42	1.37
26	BB	606	U	C3'-C2'	5.23	1.58	1.52
26	BB	863	A	C8-N7	-5.23	1.27	1.31
26	BB	1001	A	N3-C4	-5.23	1.31	1.34
26	BB	1470	A	C2'-C1'	-5.23	1.47	1.53
26	BB	1748	C	C3'-O3'	-5.23	1.34	1.42
1	AA	683	G	N1-C2	-5.22	1.33	1.37
1	AA	1385	G	N9-C4	5.22	1.42	1.38
1	AA	1388	C	C5-C6	5.22	1.38	1.34
1	AA	1466	C	C5-C6	5.22	1.38	1.34
4	AD	42	C	C5'-C4'	-5.22	1.45	1.51
25	BA	19	C	C4-C5	5.22	1.47	1.43
26	BB	74	A	C2'-O2'	-5.22	1.34	1.41
26	BB	1120	G	C5-C4	-5.22	1.34	1.38
26	BB	1145	C	P-O5'	5.22	1.65	1.59
26	BB	1964	G	C5-C4	5.22	1.42	1.38
26	BB	2168	G	O3'-P	5.22	1.67	1.61
26	BB	2188	U	C4-C5	5.22	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2224	G	C2'-C1'	-5.22	1.47	1.53
26	BB	2277	G	C5-C4	5.22	1.42	1.38
26	BB	2428	G	C3'-C2'	5.22	1.58	1.52
26	BB	2810	A	C2-N3	5.22	1.38	1.33
1	AA	73	C	P-O5'	-5.22	1.54	1.59
1	AA	261	U	C2-O2	5.22	1.27	1.22
1	AA	788	U	C3'-O3'	-5.22	1.34	1.42
1	AA	867	G	N1-C2	5.22	1.42	1.37
2	AB	18	G	C2-N3	5.22	1.36	1.32
4	AD	44	A	C5-C4	-5.22	1.35	1.38
26	BB	344	A	C5'-C4'	5.22	1.57	1.51
26	BB	435	C	C5-C6	5.22	1.38	1.34
26	BB	977	G	C2'-O2'	5.22	1.48	1.41
26	BB	2080	A	N9-C4	5.22	1.41	1.37
26	BB	2511	U	C4'-O4'	-5.22	1.38	1.45
1	AA	348	G	P-O5'	5.22	1.65	1.59
1	AA	503	C	O3'-P	5.22	1.67	1.61
25	BA	70	C	N1-C2	-5.22	1.34	1.40
26	BB	1023	U	N3-C4	-5.22	1.33	1.38
26	BB	1667	G	N7-C5	-5.22	1.36	1.39
26	BB	2599	G	N9-C8	-5.22	1.34	1.37
1	AA	889	A	N3-C4	-5.22	1.31	1.34
1	AA	938	A	C5'-C4'	5.22	1.57	1.51
4	AD	50	G	N7-C5	-5.22	1.36	1.39
26	BB	1034	G	C4'-O4'	-5.22	1.38	1.45
26	BB	1127	A	N9-C8	-5.22	1.33	1.37
26	BB	1564	C	C5-C6	5.22	1.38	1.34
26	BB	1866	A	C4'-O4'	-5.22	1.38	1.45
26	BB	2621	G	C2-N3	5.22	1.36	1.32
1	AA	275	G	C3'-C2'	5.22	1.58	1.52
1	AA	841	C	C5'-C4'	5.22	1.57	1.51
12	AL	40	ARG	CZ-NH1	5.22	1.39	1.33
26	BB	1176	U	C4-C5	5.22	1.48	1.43
26	BB	1792	G	C5-C4	-5.22	1.34	1.38
26	BB	2570	G	O5'-C5'	-5.22	1.34	1.42
1	AA	465	A	C3'-C2'	-5.22	1.47	1.52
1	AA	993	G	C2'-C1'	5.22	1.59	1.53
1	AA	1229	A	C2-N3	-5.22	1.28	1.33
1	AA	1472	U	C5-C6	5.22	1.38	1.34
4	AD	29	C	C2'-C1'	-5.22	1.47	1.53
26	BB	435	C	C4-C5	5.22	1.47	1.43
26	BB	529	A	C5'-C4'	5.22	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	617	G	C2-N3	5.22	1.36	1.32
26	BB	674	G	N9-C8	-5.22	1.34	1.37
26	BB	1131	G	C5'-C4'	5.22	1.57	1.51
26	BB	1999	C	O4'-C1'	5.22	1.48	1.41
26	BB	2026	U	N3-C4	5.22	1.43	1.38
26	BB	2549	G	P-O5'	5.22	1.65	1.59
26	BB	2849	U	N3-C4	5.22	1.43	1.38
38	BN	143	GLU	CG-CD	5.22	1.59	1.51
1	AA	963	G	C5'-C4'	5.21	1.57	1.51
1	AA	1184	G	N1-C2	-5.21	1.33	1.37
6	AF	41	TYR	CE2-CZ	5.21	1.45	1.38
26	BB	1135	C	C5'-C4'	5.21	1.57	1.51
26	BB	1602	U	N3-C4	-5.21	1.33	1.38
1	AA	340	U	P-O5'	5.21	1.65	1.59
1	AA	721	G	C2'-O2'	5.21	1.48	1.41
1	AA	279	A	C6-N6	5.21	1.38	1.33
1	AA	473	U	C4'-C3'	-5.21	1.47	1.52
1	AA	726	C	C2'-C1'	-5.21	1.47	1.53
1	AA	1204	A	O3'-P	5.21	1.67	1.61
1	AA	1280	A	C4'-O4'	-5.21	1.38	1.45
1	AA	1294	G	C5-C4	-5.21	1.34	1.38
1	AA	1386	G	N9-C8	5.21	1.41	1.37
25	BA	59	A	C4'-C3'	-5.21	1.47	1.52
25	BA	119	A	N9-C8	-5.21	1.33	1.37
26	BB	38	A	O3'-P	5.21	1.67	1.61
26	BB	48	G	N1-C2	5.21	1.42	1.37
26	BB	204	A	C2'-C1'	-5.21	1.47	1.53
26	BB	270	A	C5-C4	5.21	1.42	1.38
26	BB	1017	G	C6-N1	-5.21	1.35	1.39
26	BB	1354	A	N9-C8	-5.21	1.33	1.37
26	BB	1381	G	C8-N7	-5.21	1.27	1.30
26	BB	1399	C	C4-C5	5.21	1.47	1.43
26	BB	1452	G	O3'-P	5.21	1.67	1.61
26	BB	1459	G	N1-C2	-5.21	1.33	1.37
26	BB	1517	G	O4'-C1'	5.21	1.48	1.41
26	BB	1529	G	N7-C5	-5.21	1.36	1.39
26	BB	1759	A	C5-C6	5.21	1.45	1.41
26	BB	1803	A	C3'-C2'	5.21	1.58	1.52
26	BB	2268	A	C6-N6	5.21	1.38	1.33
26	BB	2893	A	C2'-C1'	5.21	1.59	1.53
56	B5	28	ARG	CZ-NH1	5.21	1.39	1.33
2	AB	26	A	N9-C4	-5.21	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1655	A	C6-N1	5.21	1.39	1.35
26	BB	1910	G	C5-C4	-5.21	1.34	1.38
26	BB	2050	C	C4'-O4'	-5.21	1.38	1.45
26	BB	2658	C	P-O5'	5.21	1.65	1.59
26	BB	2718	G	C8-N7	-5.21	1.27	1.30
26	BB	2789	C	N3-C4	-5.21	1.30	1.33
1	AA	880	C	C4-C5	5.21	1.47	1.43
26	BB	981	A	N9-C4	-5.21	1.34	1.37
26	BB	1279	G	O3'-P	5.21	1.67	1.61
26	BB	1827	U	C5'-C4'	5.21	1.57	1.51
26	BB	2163	A	C4'-C3'	5.21	1.58	1.53
26	BB	2726	A	N1-C2	-5.21	1.29	1.34
26	BB	2885	G	C6-O6	5.21	1.28	1.24
1	AA	162	A	N7-C5	5.21	1.42	1.39
1	AA	234	C	C5'-C4'	5.21	1.57	1.51
1	AA	506	G	P-O5'	5.21	1.65	1.59
1	AA	1351	U	C1'-N1	5.21	1.56	1.48
4	AD	68	C	O4'-C1'	5.21	1.48	1.41
26	BB	434	U	O3'-P	5.21	1.67	1.61
26	BB	1475	G	P-O5'	5.21	1.65	1.59
26	BB	1733	G	N7-C5	-5.21	1.36	1.39
26	BB	1773	A	C8-N7	-5.21	1.27	1.31
26	BB	2083	G	C6-N1	5.21	1.43	1.39
26	BB	2193	G	O3'-P	5.21	1.67	1.61
26	BB	2459	A	C3'-C2'	5.21	1.58	1.52
1	AA	574	A	N7-C5	5.21	1.42	1.39
1	AA	1387	G	C5-C6	5.21	1.47	1.42
25	BA	60	C	C1'-N1	5.21	1.56	1.48
26	BB	639	U	C4'-C3'	-5.21	1.47	1.52
26	BB	912	C	N1-C6	-5.21	1.34	1.37
26	BB	2041	U	C2-N3	5.21	1.41	1.37
26	BB	2185	U	C3'-C2'	5.21	1.58	1.52
26	BB	2707	U	N1-C2	5.21	1.43	1.38
26	BB	2734	A	O5'-C5'	-5.21	1.34	1.42
1	AA	319	G	O4'-C1'	5.20	1.48	1.41
1	AA	352	C	C3'-O3'	-5.20	1.34	1.42
1	AA	416	G	C5-C4	-5.20	1.34	1.38
1	AA	1010	U	C4-O4	5.20	1.27	1.23
1	AA	1330	U	C2-N3	5.20	1.41	1.37
1	AA	1539	C	C2'-O2'	5.20	1.48	1.41
26	BB	633	A	C4'-O4'	-5.20	1.38	1.45
26	BB	693	A	O4'-C1'	5.20	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	980	A	O3'-P	-5.20	1.54	1.61
26	BB	1919	A	C2-N3	5.20	1.38	1.33
26	BB	2829	A	O3'-P	5.20	1.67	1.61
1	AA	447	G	C2-N3	5.20	1.36	1.32
26	BB	427	U	P-O5'	-5.20	1.54	1.59
26	BB	583	G	C5-C4	-5.20	1.34	1.38
26	BB	739	A	C2'-O2'	-5.20	1.34	1.41
26	BB	1026	G	C6-N1	5.20	1.43	1.39
26	BB	1534	U	C2'-O2'	5.20	1.48	1.41
26	BB	1976	U	C2-O2	5.20	1.27	1.22
1	AA	225	C	C4-N4	5.20	1.38	1.33
1	AA	745	G	N7-C5	-5.20	1.36	1.39
1	AA	823	C	C2'-C1'	-5.20	1.47	1.53
1	AA	1163	A	C6-N1	5.20	1.39	1.35
1	AA	1173	U	C5-C6	5.20	1.38	1.34
3	AC	29	G	C4'-O4'	-5.20	1.38	1.45
4	AD	43	G	C3'-C2'	5.20	1.58	1.52
26	BB	483	A	C5-C6	-5.20	1.36	1.41
26	BB	635	C	P-O5'	5.20	1.65	1.59
26	BB	748	G	C4'-O4'	-5.20	1.38	1.45
26	BB	1510	G	C8-N7	5.20	1.34	1.30
26	BB	1527	G	P-O5'	5.20	1.65	1.59
26	BB	1540	G	C4'-O4'	-5.20	1.38	1.45
26	BB	1690	A	O3'-P	5.20	1.67	1.61
26	BB	1814	G	C6-N1	5.20	1.43	1.39
26	BB	2089	C	C2-O2	-5.20	1.19	1.24
26	BB	2506	U	N3-C4	5.20	1.43	1.38
26	BB	2672	U	C2-N3	-5.20	1.34	1.37
26	BB	2849	U	O3'-P	5.20	1.67	1.61
1	AA	11	G	C2'-O2'	5.20	1.48	1.41
1	AA	1057	G	C4'-O4'	-5.20	1.38	1.45
1	AA	1332	A	C5-C4	-5.20	1.35	1.38
1	AA	1443	C	C2-N3	-5.20	1.31	1.35
26	BB	1253	A	C5-C6	5.20	1.45	1.41
26	BB	1313	U	N3-C4	5.20	1.43	1.38
26	BB	1322	A	C2'-O2'	5.20	1.48	1.41
26	BB	1533	C	N3-C4	5.20	1.37	1.33
26	BB	2142	A	N3-C4	5.20	1.38	1.34
26	BB	2644	G	C2'-O2'	5.20	1.48	1.41
26	BB	2722	G	C2'-C1'	5.20	1.59	1.53
1	AA	730	G	C6-N1	5.20	1.43	1.39
1	AA	822	U	C2-N3	5.20	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	600	G	N9-C4	-5.20	1.33	1.38
26	BB	982	C	C5-C6	5.20	1.38	1.34
26	BB	1177	G	C2'-O2'	-5.20	1.34	1.41
26	BB	1364	G	C4'-C3'	-5.20	1.47	1.52
26	BB	1554	U	P-O5'	5.20	1.65	1.59
26	BB	2289	G	N7-C5	-5.20	1.36	1.39
1	AA	160	A	C8-N7	-5.20	1.27	1.31
1	AA	160	A	N9-C4	5.20	1.41	1.37
1	AA	1281	C	C4-C5	-5.20	1.38	1.43
26	BB	141	G	C6-N1	5.20	1.43	1.39
26	BB	196	A	P-O5'	-5.20	1.54	1.59
26	BB	1375	U	N1-C2	-5.20	1.33	1.38
26	BB	1533	C	C3'-C2'	5.20	1.58	1.52
26	BB	1976	U	C5-C6	5.20	1.38	1.34
26	BB	2327	A	N3-C4	5.20	1.38	1.34
26	BB	2597	G	N9-C8	5.20	1.41	1.37
1	AA	799	G	C5-C6	5.19	1.47	1.42
1	AA	1091	U	C4-O4	-5.19	1.19	1.23
1	AA	1236	A	C6-N1	5.19	1.39	1.35
3	AC	18	A	O4'-C1'	5.19	1.48	1.41
26	BB	89	A	N3-C4	5.19	1.38	1.34
26	BB	656	G	O4'-C1'	5.19	1.48	1.41
26	BB	1313	U	O3'-P	-5.19	1.54	1.61
26	BB	1706	C	C3'-C2'	5.19	1.58	1.52
26	BB	1809	A	C4'-O4'	-5.19	1.38	1.45
26	BB	1912	A	N9-C8	-5.19	1.33	1.37
1	AA	65	A	N1-C2	-5.19	1.29	1.34
1	AA	552	U	C4-O4	-5.19	1.19	1.23
1	AA	1148	U	P-O5'	5.19	1.65	1.59
1	AA	1152	A	N7-C5	5.19	1.42	1.39
1	AA	1259	C	C4'-C3'	-5.19	1.47	1.52
2	AB	59	G	C6-N1	-5.19	1.35	1.39
26	BB	148	U	O3'-P	5.19	1.67	1.61
26	BB	181	A	C2'-C1'	-5.19	1.47	1.53
26	BB	590	A	N9-C8	-5.19	1.33	1.37
26	BB	614	A	N7-C5	-5.19	1.36	1.39
26	BB	1211	C	C2'-C1'	5.19	1.59	1.53
26	BB	1218	G	O3'-P	5.19	1.67	1.61
26	BB	1290	C	P-O5'	5.19	1.65	1.59
26	BB	1429	G	C5-C4	-5.19	1.34	1.38
26	BB	1473	G	N1-C2	5.19	1.42	1.37
26	BB	1633	G	N3-C4	5.19	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2531	A	N7-C5	-5.19	1.36	1.39
1	AA	144	G	N7-C5	-5.19	1.36	1.39
1	AA	163	C	C4-C5	5.19	1.47	1.43
1	AA	382	A	C2-N3	-5.19	1.28	1.33
1	AA	951	G	C6-N1	5.19	1.43	1.39
1	AA	1018	G	N9-C8	5.19	1.41	1.37
1	AA	1099	G	C8-N7	5.19	1.34	1.30
5	AE	77	GLU	CD-OE1	5.19	1.31	1.25
26	BB	210	C	C5'-C4'	5.19	1.57	1.51
26	BB	764	A	P-O5'	-5.19	1.54	1.59
26	BB	845	A	C6-N6	5.19	1.38	1.33
26	BB	860	U	N1-C2	5.19	1.43	1.38
26	BB	1102	C	C2-N3	5.19	1.40	1.35
26	BB	1768	C	C5-C6	5.19	1.38	1.34
26	BB	1845	G	O3'-P	5.19	1.67	1.61
26	BB	2020	A	C2-N3	5.19	1.38	1.33
26	BB	2366	A	C2-N3	5.19	1.38	1.33
26	BB	2444	G	C8-N7	-5.19	1.27	1.30
26	BB	303	G	C5-C4	-5.19	1.34	1.38
26	BB	1244	A	O3'-P	5.19	1.67	1.61
26	BB	1653	G	C3'-C2'	5.19	1.58	1.52
26	BB	2135	A	C6-N6	5.19	1.38	1.33
1	AA	122	G	N9-C4	5.19	1.42	1.38
26	BB	260	G	C5'-C4'	5.19	1.57	1.51
26	BB	495	G	N3-C4	5.19	1.39	1.35
26	BB	787	C	N3-C4	-5.19	1.30	1.33
26	BB	1141	U	C2-O2	-5.19	1.17	1.22
26	BB	1739	A	N9-C4	5.19	1.41	1.37
26	BB	1787	A	C5'-C4'	5.19	1.57	1.51
26	BB	1788	C	N1-C2	5.19	1.45	1.40
26	BB	1872	A	N9-C4	-5.19	1.34	1.37
26	BB	1963	U	C3'-C2'	5.19	1.58	1.52
26	BB	2576	G	O3'-P	-5.19	1.54	1.61
26	BB	2586	U	C4'-O4'	-5.19	1.38	1.45
26	BB	2587	A	C4'-O4'	-5.19	1.38	1.45
1	AA	182	A	C5-C6	5.19	1.45	1.41
1	AA	328	C	C4-C5	5.19	1.47	1.43
1	AA	882	C	C4-C5	5.19	1.47	1.43
4	AD	9	G	N9-C8	-5.19	1.34	1.37
26	BB	18	U	C2'-O2'	5.19	1.48	1.41
26	BB	241	A	N3-C4	5.19	1.38	1.34
26	BB	520	G	N3-C4	5.19	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1774	C	C4'-C3'	5.19	1.58	1.53
26	BB	2542	A	O3'-P	-5.19	1.54	1.61
1	AA	1178	G	P-O5'	5.18	1.65	1.59
1	AA	1251	A	C2-N3	-5.18	1.28	1.33
25	BA	70	C	C2-N3	5.18	1.39	1.35
25	BA	89	U	C5-C6	5.18	1.38	1.34
26	BB	45	G	N9-C4	5.18	1.42	1.38
26	BB	763	G	C2'-C1'	5.18	1.59	1.53
26	BB	1761	C	C4-C5	5.18	1.47	1.43
26	BB	2067	G	N9-C8	5.18	1.41	1.37
26	BB	2373	G	N9-C8	5.18	1.41	1.37
26	BB	2648	G	N7-C5	5.18	1.42	1.39
1	AA	196	A	C2-N3	5.18	1.38	1.33
1	AA	339	C	O4'-C1'	5.18	1.48	1.41
26	BB	169	G	C2'-C1'	5.18	1.59	1.53
26	BB	913	U	C2'-C1'	-5.18	1.47	1.53
26	BB	1434	A	C3'-C2'	5.18	1.58	1.52
26	BB	1634	A	C6-N1	5.18	1.39	1.35
26	BB	2021	C	N1-C6	5.18	1.40	1.37
26	BB	2199	A	C2-N3	5.18	1.38	1.33
26	BB	2622	U	C5'-C4'	5.18	1.57	1.51
1	AA	77	A	C6-N1	5.18	1.39	1.35
26	BB	925	A	C6-N6	-5.18	1.29	1.33
26	BB	1663	G	C5'-C4'	5.18	1.57	1.51
1	AA	1313	U	C5'-C4'	5.18	1.57	1.51
2	AB	29	G	C5-C6	-5.18	1.37	1.42
25	BA	40	U	C3'-C2'	5.18	1.58	1.52
25	BA	112	G	N9-C4	-5.18	1.33	1.38
26	BB	20	C	C5'-C4'	5.18	1.57	1.51
26	BB	388	G	O3'-P	5.18	1.67	1.61
26	BB	568	U	C4-O4	-5.18	1.19	1.23
26	BB	1409	U	C4-C5	5.18	1.48	1.43
26	BB	2426	A	N1-C2	5.18	1.39	1.34
26	BB	2733	A	O3'-P	5.18	1.67	1.61
1	AA	10	A	O3'-P	-5.18	1.54	1.61
1	AA	1257	A	C4'-C3'	-5.18	1.47	1.52
26	BB	480	A	C2-N3	5.18	1.38	1.33
26	BB	1148	U	O3'-P	5.18	1.67	1.61
26	BB	1177	G	N9-C8	-5.18	1.34	1.37
26	BB	1476	U	C5'-C4'	5.18	1.57	1.51
26	BB	2035	G	C8-N7	5.18	1.34	1.30
26	BB	2402	U	O3'-P	5.18	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2845	U	N1-C2	5.18	1.43	1.38
1	AA	264	C	C4'-O4'	-5.18	1.38	1.45
1	AA	349	A	O3'-P	5.18	1.67	1.61
1	AA	744	C	C4'-O4'	-5.18	1.38	1.45
1	AA	1107	C	C3'-C2'	5.18	1.58	1.52
1	AA	1221	G	C4'-C3'	-5.18	1.47	1.52
25	BA	11	C	C1'-N1	5.18	1.56	1.48
25	BA	20	G	C2'-C1'	-5.18	1.47	1.53
26	BB	469	G	O3'-P	5.18	1.67	1.61
26	BB	1521	G	N7-C5	-5.18	1.36	1.39
26	BB	1696	G	N3-C4	5.18	1.39	1.35
26	BB	1987	A	C5-C6	5.18	1.45	1.41
26	BB	2408	U	C4'-O4'	-5.18	1.38	1.45
1	AA	133	U	O3'-P	5.17	1.67	1.61
1	AA	660	C	C5'-C4'	5.17	1.57	1.51
1	AA	868	C	C1'-N1	5.17	1.56	1.48
1	AA	888	G	C2-N3	5.17	1.36	1.32
1	AA	1253	G	C6-O6	-5.17	1.19	1.24
1	AA	1493	A	P-O5'	5.17	1.65	1.59
10	AJ	1	PRO	N-CD	5.17	1.55	1.47
26	BB	477	A	C4'-O4'	-5.17	1.38	1.45
26	BB	1867	G	C3'-C2'	5.17	1.58	1.52
26	BB	1992	G	C2'-O2'	-5.17	1.34	1.41
26	BB	2089	C	N3-C4	5.17	1.37	1.33
26	BB	2126	A	N9-C4	5.17	1.41	1.37
26	BB	415	A	C5-C4	-5.17	1.35	1.38
26	BB	457	A	C2-N3	-5.17	1.28	1.33
26	BB	506	G	N7-C5	5.17	1.42	1.39
26	BB	1803	A	C3'-O3'	-5.17	1.34	1.42
26	BB	2032	G	C6-N1	5.17	1.43	1.39
26	BB	2116	G	C5'-C4'	5.17	1.57	1.51
26	BB	2850	A	N3-C4	-5.17	1.31	1.34
1	AA	423	G	C5'-C4'	5.17	1.57	1.51
1	AA	498	A	C2'-O2'	-5.17	1.34	1.41
1	AA	629	A	C4'-C3'	-5.17	1.47	1.52
25	BA	74	U	C4-C5	5.17	1.48	1.43
26	BB	332	A	N7-C5	-5.17	1.36	1.39
26	BB	427	U	C4-O4	5.17	1.27	1.23
26	BB	1022	G	C4'-O4'	-5.17	1.38	1.45
26	BB	1454	C	C5-C6	5.17	1.38	1.34
26	BB	2524	G	C8-N7	5.17	1.34	1.30
26	BB	2615	U	N1-C2	5.17	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	BS	78	PHE	CE2-CZ	5.17	1.47	1.37
1	AA	753	A	C4'-O4'	-5.17	1.38	1.45
1	AA	1084	G	C5-C4	-5.17	1.34	1.38
1	AA	1156	G	C5-C4	5.17	1.42	1.38
26	BB	84	A	N3-C4	5.17	1.38	1.34
26	BB	456	C	C2-N3	5.17	1.39	1.35
26	BB	800	A	O4'-C1'	5.17	1.48	1.41
26	BB	942	G	C4'-O4'	-5.17	1.38	1.45
26	BB	1091	G	C4'-O4'	-5.17	1.38	1.45
26	BB	2799	A	O3'-P	-5.17	1.54	1.61
1	AA	880	C	O3'-P	5.17	1.67	1.61
3	AC	57	C	N3-C4	5.17	1.37	1.33
25	BA	44	G	C5-C4	5.17	1.42	1.38
25	BA	106	G	C5'-C4'	5.17	1.57	1.51
26	BB	772	C	C3'-C2'	5.17	1.58	1.52
26	BB	858	G	C5-C4	-5.17	1.34	1.38
26	BB	1134	A	C4'-O4'	-5.17	1.38	1.45
26	BB	1871	A	N3-C4	5.17	1.38	1.34
28	BD	68	ARG	NE-CZ	5.17	1.39	1.33
1	AA	831	A	C8-N7	-5.17	1.27	1.31
1	AA	1506	U	C5-C6	5.17	1.38	1.34
25	BA	29	A	C8-N7	5.17	1.35	1.31
26	BB	490	C	C4'-O4'	-5.17	1.38	1.45
26	BB	501	A	C2-N3	5.17	1.38	1.33
26	BB	910	A	C8-N7	-5.17	1.27	1.31
26	BB	1270	C	C4'-C3'	5.17	1.58	1.53
26	BB	1274	A	C5'-C4'	5.17	1.57	1.51
26	BB	1757	A	C3'-C2'	5.17	1.58	1.52
26	BB	1926	U	C5-C6	5.17	1.38	1.34
26	BB	1960	A	C5-C6	5.17	1.45	1.41
26	BB	2004	G	C8-N7	-5.17	1.27	1.30
26	BB	2167	U	C4-C5	5.17	1.48	1.43
26	BB	2255	G	C4'-O4'	-5.17	1.38	1.45
26	BB	2307	G	C6-N1	5.17	1.43	1.39
26	BB	2555	U	C2-N3	5.17	1.41	1.37
28	BD	81	GLU	CD-OE2	5.17	1.31	1.25
1	AA	1306	A	P-O5'	5.17	1.65	1.59
1	AA	1343	G	C5'-C4'	5.17	1.57	1.51
4	AD	19	G	C2-N3	5.17	1.36	1.32
26	BB	721	A	C4'-O4'	-5.17	1.38	1.45
26	BB	762	U	C2-O2	5.17	1.26	1.22
26	BB	795	C	O4'-C1'	5.17	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1141	U	O3'-P	-5.17	1.54	1.61
26	BB	1198	U	C1'-N1	5.17	1.56	1.48
26	BB	1811	G	N1-C2	5.17	1.41	1.37
1	AA	121	U	P-O5'	5.16	1.65	1.59
1	AA	704	A	C2'-C1'	5.16	1.59	1.53
1	AA	987	G	P-O5'	5.16	1.65	1.59
1	AA	1087	G	O4'-C1'	5.16	1.48	1.41
1	AA	1110	A	P-O5'	5.16	1.65	1.59
1	AA	1410	A	N7-C5	5.16	1.42	1.39
1	AA	1515	G	C5-C4	5.16	1.42	1.38
26	BB	142	A	O3'-P	-5.16	1.54	1.61
26	BB	396	G	C4'-O4'	-5.16	1.38	1.45
26	BB	502	A	C5-C6	5.16	1.45	1.41
26	BB	593	U	O3'-P	-5.16	1.54	1.61
26	BB	679	C	C2-N3	-5.16	1.31	1.35
26	BB	712	G	C5-C6	5.16	1.47	1.42
26	BB	1237	A	C6-N6	5.16	1.38	1.33
26	BB	1323	C	C5'-C4'	-5.16	1.45	1.51
26	BB	1427	A	C4'-C3'	5.16	1.58	1.53
26	BB	1996	C	C4-C5	5.16	1.47	1.43
26	BB	2438	U	N1-C2	5.16	1.43	1.38
26	BB	2596	U	C5-C6	5.16	1.38	1.34
1	AA	434	U	O4'-C1'	5.16	1.48	1.41
16	AP	85	TYR	CE1-CZ	5.16	1.45	1.38
26	BB	2205	A	C5-C4	-5.16	1.35	1.38
26	BB	2577	A	N1-C2	-5.16	1.29	1.34
26	BB	2639	A	C4'-O4'	-5.16	1.38	1.45
1	AA	640	A	O4'-C1'	5.16	1.48	1.41
1	AA	937	A	C6-N6	5.16	1.38	1.33
1	AA	962	C	C4'-O4'	-5.16	1.38	1.45
26	BB	324	A	C4'-O4'	-5.16	1.38	1.45
26	BB	421	C	C2-O2	-5.16	1.19	1.24
26	BB	1037	G	C6-N1	5.16	1.43	1.39
26	BB	1275	A	C5-C6	5.16	1.45	1.41
26	BB	1361	G	N1-C2	5.16	1.41	1.37
26	BB	1632	A	C2'-O2'	-5.16	1.34	1.41
26	BB	1793	C	P-O5'	5.16	1.65	1.59
26	BB	1883	U	O3'-P	5.16	1.67	1.61
26	BB	2272	U	O3'-P	-5.16	1.54	1.61
26	BB	2565	A	N9-C4	5.16	1.41	1.37
26	BB	2770	G	C6-O6	5.16	1.28	1.24
1	AA	139	A	C5-C6	5.16	1.45	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	257	G	O3'-P	-5.16	1.54	1.61
1	AA	273	U	C4-O4	-5.16	1.19	1.23
1	AA	485	U	C4'-C3'	5.16	1.58	1.53
1	AA	576	C	C5-C6	5.16	1.38	1.34
1	AA	622	A	N7-C5	5.16	1.42	1.39
1	AA	819	A	C6-N6	-5.16	1.29	1.33
1	AA	833	G	C2-N3	5.16	1.36	1.32
1	AA	1109	C	C4-N4	5.16	1.38	1.33
24	AX	61	ARG	CZ-NH2	5.16	1.39	1.33
26	BB	606	U	O4'-C1'	5.16	1.48	1.41
26	BB	940	G	N7-C5	5.16	1.42	1.39
26	BB	1263	U	C5-C6	5.16	1.38	1.34
26	BB	1592	C	O4'-C1'	5.16	1.48	1.41
1	AA	1032	G	C5-C6	-5.16	1.37	1.42
26	BB	471	A	C6-N6	-5.16	1.29	1.33
26	BB	561	G	N3-C4	5.16	1.39	1.35
26	BB	706	A	C5-C4	-5.16	1.35	1.38
26	BB	1005	C	P-O5'	5.16	1.65	1.59
26	BB	2573	C	C5-C6	5.16	1.38	1.34
26	BB	2610	C	C2'-C1'	-5.16	1.47	1.53
1	AA	806	C	C2-N3	-5.16	1.31	1.35
1	AA	1343	G	C8-N7	-5.16	1.27	1.30
4	AD	27	G	C6-N1	5.16	1.43	1.39
7	AG	62	ARG	NE-CZ	5.16	1.39	1.33
9	AI	75	GLU	CG-CD	5.16	1.59	1.51
25	BA	100	G	C2-N3	5.16	1.36	1.32
26	BB	19	A	C6-N1	-5.16	1.31	1.35
26	BB	434	U	N1-C2	5.16	1.43	1.38
26	BB	1012	U	C2'-C1'	-5.16	1.47	1.53
26	BB	1203	U	N3-C4	5.16	1.43	1.38
26	BB	1538	G	N9-C8	5.16	1.41	1.37
26	BB	1640	A	C5-C6	5.16	1.45	1.41
26	BB	2000	C	P-O5'	-5.16	1.54	1.59
26	BB	2143	C	C4'-O4'	-5.16	1.38	1.45
26	BB	2411	A	C6-N1	5.16	1.39	1.35
26	BB	2437	G	N9-C4	5.16	1.42	1.38
26	BB	2583	G	C5'-C4'	5.16	1.57	1.51
26	BB	2678	C	C4-N4	5.16	1.38	1.33
26	BB	2872	A	C6-N1	-5.16	1.31	1.35
1	AA	347	G	N7-C5	-5.15	1.36	1.39
1	AA	367	U	C4'-O4'	-5.15	1.38	1.45
1	AA	660	C	O4'-C1'	5.15	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	850	U	N3-C4	5.15	1.43	1.38
1	AA	1271	A	C2'-C1'	5.15	1.59	1.53
26	BB	43	G	O4'-C1'	5.15	1.48	1.41
26	BB	512	G	O3'-P	5.15	1.67	1.61
26	BB	597	G	N9-C8	-5.15	1.34	1.37
26	BB	615	U	N1-C6	5.15	1.42	1.38
26	BB	932	U	N1-C2	5.15	1.43	1.38
26	BB	1127	A	N9-C4	5.15	1.41	1.37
26	BB	1840	G	C3'-O3'	5.15	1.49	1.42
26	BB	2165	C	N3-C4	5.15	1.37	1.33
26	BB	2446	G	C5-C4	-5.15	1.34	1.38
26	BB	2528	U	C2'-O2'	5.15	1.48	1.41
1	AA	181	A	N7-C5	5.15	1.42	1.39
1	AA	1297	G	C5-C4	5.15	1.42	1.38
2	AB	49	G	N9-C4	5.15	1.42	1.38
25	BA	23	G	C2'-C1'	-5.15	1.47	1.53
26	BB	231	A	N7-C5	5.15	1.42	1.39
26	BB	768	G	N1-C2	5.15	1.41	1.37
26	BB	979	A	N9-C8	-5.15	1.33	1.37
26	BB	1017	G	C2-N3	5.15	1.36	1.32
26	BB	1357	C	C4'-O4'	-5.15	1.38	1.45
26	BB	1487	U	C4'-O4'	-5.15	1.38	1.45
26	BB	2346	A	P-O5'	5.15	1.65	1.59
26	BB	2431	U	O5'-C5'	-5.15	1.34	1.42
26	BB	2520	C	C5-C6	5.15	1.38	1.34
26	BB	2571	U	N1-C2	5.15	1.43	1.38
26	BB	2688	G	C4'-O4'	-5.15	1.38	1.45
44	BT	90	ARG	CZ-NH1	5.15	1.39	1.33
1	AA	37	U	C4'-O4'	-5.15	1.38	1.45
1	AA	140	U	C5'-C4'	5.15	1.57	1.51
1	AA	481	G	C6-O6	-5.15	1.19	1.24
1	AA	1039	G	C8-N7	-5.15	1.27	1.30
1	AA	1058	G	C6-N1	-5.15	1.35	1.39
1	AA	1294	G	C6-N1	-5.15	1.35	1.39
2	AB	2	G	C5-C4	5.15	1.42	1.38
3	AC	37	G	C4'-C3'	5.15	1.58	1.53
26	BB	331	C	C4-C5	5.15	1.47	1.43
26	BB	1899	A	N3-C4	5.15	1.38	1.34
26	BB	2751	G	C5'-C4'	5.15	1.57	1.51
1	AA	45	G	N9-C8	5.15	1.41	1.37
3	AC	43	U	N1-C2	5.15	1.43	1.38
26	BB	863	A	N1-C2	5.15	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1312	U	O3'-P	5.15	1.67	1.61
26	BB	1458	U	C2'-C1'	5.15	1.59	1.53
26	BB	1968	G	O3'-P	5.15	1.67	1.61
26	BB	2492	U	C2'-C1'	-5.15	1.47	1.53
26	BB	2696	U	O4'-C1'	5.15	1.48	1.41
1	AA	359	G	C5-C4	5.15	1.42	1.38
1	AA	537	G	P-O5'	5.15	1.64	1.59
1	AA	595	A	P-O5'	5.15	1.64	1.59
1	AA	616	G	C4'-O4'	-5.15	1.38	1.45
1	AA	1049	U	N1-C2	5.15	1.43	1.38
1	AA	1067	A	C1'-N9	5.15	1.56	1.48
4	AD	73	A	C5-C4	5.15	1.42	1.38
26	BB	233	A	C5-C4	-5.15	1.35	1.38
26	BB	430	A	N3-C4	5.15	1.38	1.34
26	BB	580	U	C3'-C2'	5.15	1.58	1.52
26	BB	2384	U	C3'-O3'	5.15	1.49	1.42
27	BC	108	GLU	CG-CD	5.15	1.59	1.51
1	AA	79	G	C2'-C1'	-5.15	1.47	1.53
1	AA	752	G	O3'-P	5.15	1.67	1.61
1	AA	932	C	O3'-P	5.15	1.67	1.61
25	BA	48	U	C2'-C1'	5.15	1.59	1.53
26	BB	392	U	N1-C6	5.15	1.42	1.38
26	BB	964	C	C2'-C1'	5.15	1.59	1.53
26	BB	1449	G	P-O5'	5.15	1.64	1.59
26	BB	1953	A	C8-N7	5.15	1.35	1.31
1	AA	323	U	C3'-C2'	5.14	1.58	1.52
1	AA	694	A	C3'-C2'	5.14	1.58	1.52
1	AA	1211	U	C1'-N1	5.14	1.56	1.48
1	AA	1497	G	P-O5'	5.14	1.64	1.59
26	BB	201	C	C4-N4	5.14	1.38	1.33
26	BB	578	G	O4'-C1'	5.14	1.48	1.41
26	BB	1252	G	P-O5'	-5.14	1.54	1.59
26	BB	1586	A	P-O5'	5.14	1.64	1.59
26	BB	1684	G	P-O5'	5.14	1.64	1.59
26	BB	1886	U	C5'-C4'	5.14	1.57	1.51
26	BB	2156	G	C4'-O4'	-5.14	1.38	1.45
26	BB	2390	U	C3'-C2'	5.14	1.58	1.52
26	BB	2571	U	P-O5'	5.14	1.64	1.59
1	AA	607	A	N3-C4	5.14	1.38	1.34
1	AA	1050	G	C5-C4	5.14	1.42	1.38
2	AB	48	U	C2-N3	5.14	1.41	1.37
25	BA	6	G	C4'-O4'	-5.14	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	240	C	C2-O2	-5.14	1.19	1.24
26	BB	456	C	O3'-P	5.14	1.67	1.61
26	BB	583	G	C5'-C4'	5.14	1.57	1.51
26	BB	783	A	O3'-P	5.14	1.67	1.61
26	BB	911	A	C5-C6	5.14	1.45	1.41
26	BB	1520	U	C5-C6	-5.14	1.29	1.34
26	BB	2169	A	N1-C2	-5.14	1.29	1.34
26	BB	2514	U	C4-O4	5.14	1.27	1.23
1	AA	1254	A	C2'-O2'	-5.14	1.34	1.41
1	AA	1434	A	C5'-C4'	5.14	1.57	1.51
26	BB	1133	A	N9-C4	-5.14	1.34	1.37
26	BB	1358	G	C4'-C3'	5.14	1.58	1.53
26	BB	1487	U	C1'-N1	5.14	1.56	1.48
1	AA	67	C	C5-C6	5.14	1.38	1.34
1	AA	772	U	C5'-C4'	5.14	1.57	1.51
1	AA	789	U	N1-C2	5.14	1.43	1.38
2	AB	67	G	C4'-C3'	5.14	1.58	1.53
26	BB	1228	G	P-OP2	-5.14	1.40	1.49
26	BB	1669	A	C4'-C3'	5.14	1.58	1.53
26	BB	1844	C	O4'-C1'	5.14	1.48	1.41
26	BB	1857	G	C2-N3	5.14	1.36	1.32
26	BB	2639	A	C6-N1	-5.14	1.31	1.35
1	AA	506	G	C4'-O4'	-5.14	1.38	1.45
1	AA	663	A	O3'-P	5.14	1.67	1.61
26	BB	96	C	N1-C6	-5.14	1.34	1.37
26	BB	2423	U	O3'-P	5.14	1.67	1.61
26	BB	2824	C	N3-C4	-5.14	1.30	1.33
1	AA	53	A	N3-C4	5.14	1.38	1.34
1	AA	108	G	C8-N7	-5.14	1.27	1.30
1	AA	225	C	N1-C6	5.14	1.40	1.37
1	AA	608	A	N9-C4	5.14	1.41	1.37
1	AA	1315	U	P-O5'	5.14	1.64	1.59
2	AB	42	G	O3'-P	5.14	1.67	1.61
14	AN	46	ALA	C-N	5.14	1.42	1.33
26	BB	847	U	C4-C5	5.14	1.48	1.43
26	BB	943	A	C6-N1	-5.14	1.31	1.35
26	BB	1182	G	C1'-N9	5.14	1.56	1.48
26	BB	1225	G	P-O5'	-5.14	1.54	1.59
26	BB	1651	G	C4'-O4'	-5.14	1.38	1.45
26	BB	1690	A	N3-C4	5.14	1.38	1.34
26	BB	1919	A	C5-C4	5.14	1.42	1.38
26	BB	2055	C	C4'-C3'	-5.14	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2166	U	C2'-O2'	5.14	1.48	1.41
46	BV	42	GLU	CD-OE1	5.14	1.31	1.25
1	AA	288	A	N3-C4	5.13	1.38	1.34
1	AA	476	U	C2'-O2'	5.13	1.48	1.41
1	AA	754	C	N1-C6	5.13	1.40	1.37
1	AA	1344	C	O4'-C1'	-5.13	1.34	1.41
1	AA	1423	G	N1-C2	5.13	1.41	1.37
1	AA	1424	U	N3-C4	5.13	1.43	1.38
3	AC	19	A	N3-C4	5.13	1.38	1.34
26	BB	922	C	C2-N3	5.13	1.39	1.35
26	BB	1381	G	C3'-C2'	5.13	1.58	1.52
26	BB	1501	G	C5-C4	-5.13	1.34	1.38
26	BB	1543	G	C5-C6	5.13	1.47	1.42
26	BB	1570	A	N1-C2	-5.13	1.29	1.34
26	BB	1728	C	C4-C5	5.13	1.47	1.43
26	BB	1924	C	C4-N4	-5.13	1.29	1.33
26	BB	2447	G	C3'-C2'	5.13	1.58	1.52
26	BB	2788	C	P-O5'	5.13	1.64	1.59
39	BO	9	PHE	CG-CD1	5.13	1.46	1.38
2	AB	15	A	C2'-O2'	5.13	1.48	1.41
26	BB	691	C	C1'-N1	5.13	1.56	1.48
26	BB	842	U	C2-N3	5.13	1.41	1.37
26	BB	1239	G	C3'-C2'	5.13	1.58	1.52
26	BB	1301	A	N7-C5	-5.13	1.36	1.39
26	BB	2095	A	C8-N7	5.13	1.35	1.31
1	AA	87	C	C4-C5	5.13	1.47	1.43
1	AA	740	U	C4'-C3'	5.13	1.58	1.53
4	AD	29	C	C2-N3	5.13	1.39	1.35
25	BA	94	A	C6-N1	-5.13	1.31	1.35
26	BB	398	C	C5'-C4'	5.13	1.57	1.51
26	BB	565	C	C4'-O4'	-5.13	1.38	1.45
26	BB	647	G	C2'-C1'	5.13	1.58	1.53
26	BB	1607	C	O4'-C1'	-5.13	1.34	1.41
26	BB	1929	G	C5'-C4'	5.13	1.57	1.51
26	BB	2035	G	C2-N2	-5.13	1.29	1.34
26	BB	2145	C	O3'-P	-5.13	1.54	1.61
26	BB	2572	A	C5'-C4'	5.13	1.57	1.51
26	BB	2675	A	C6-N6	-5.13	1.29	1.33
1	AA	145	G	N7-C5	5.13	1.42	1.39
1	AA	1056	U	N1-C2	5.13	1.43	1.38
1	AA	1329	A	C3'-C2'	5.13	1.58	1.52
26	BB	480	A	C2'-C1'	-5.13	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	670	A	P-O5'	5.13	1.64	1.59
26	BB	947	A	C2'-C1'	5.13	1.58	1.53
26	BB	952	G	N7-C5	-5.13	1.36	1.39
26	BB	1091	G	O5'-C5'	-5.13	1.34	1.42
26	BB	1318	U	P-O5'	5.13	1.64	1.59
26	BB	2613	U	C4'-O4'	-5.13	1.38	1.45
1	AA	25	C	C2'-C1'	5.13	1.58	1.53
1	AA	723	U	C1'-N1	5.13	1.56	1.48
1	AA	760	G	O3'-P	5.13	1.67	1.61
1	AA	837	U	N1-C6	5.13	1.42	1.38
1	AA	1009	U	C2-N3	5.13	1.41	1.37
26	BB	409	G	O3'-P	-5.13	1.54	1.61
26	BB	1672	A	C6-N6	-5.13	1.29	1.33
26	BB	1896	G	C2-N3	5.13	1.36	1.32
26	BB	1991	U	C3'-C2'	5.13	1.58	1.52
26	BB	2465	C	C5'-C4'	5.13	1.57	1.51
26	BB	2548	U	C3'-C2'	5.13	1.58	1.52
26	BB	2671	G	C5'-C4'	5.13	1.57	1.51
26	BB	2856	A	C3'-O3'	5.13	1.49	1.42
28	BD	99	GLU	CG-CD	5.13	1.59	1.51
39	BO	38	ARG	NE-CZ	5.13	1.39	1.33
1	AA	48	C	P-O5'	5.13	1.64	1.59
1	AA	874	G	O5'-C5'	-5.13	1.34	1.42
1	AA	1542	A	C4'-O4'	-5.13	1.38	1.45
4	AD	4	G	N1-C2	5.13	1.41	1.37
26	BB	18	U	C4'-O4'	-5.13	1.38	1.45
26	BB	383	C	N1-C2	-5.13	1.35	1.40
26	BB	613	A	C5-C6	5.13	1.45	1.41
26	BB	636	G	C3'-C2'	-5.13	1.47	1.52
26	BB	2088	A	P-O5'	5.13	1.64	1.59
26	BB	2701	U	C4'-O4'	-5.13	1.38	1.45
26	BB	2889	C	P-O5'	5.13	1.64	1.59
26	BB	2899	A	N3-C4	5.13	1.38	1.34
7	AG	127	ARG	CZ-NH2	5.12	1.39	1.33
25	BA	30	C	N1-C6	5.12	1.40	1.37
26	BB	893	C	P-O5'	5.12	1.64	1.59
26	BB	1214	A	C5-C4	5.12	1.42	1.38
26	BB	1477	A	N7-C5	5.12	1.42	1.39
26	BB	1633	G	C6-N1	-5.12	1.35	1.39
26	BB	2588	G	N9-C4	-5.12	1.33	1.38
26	BB	2795	C	P-O5'	5.12	1.64	1.59
1	AA	545	C	P-O5'	5.12	1.64	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	725	G	N3-C4	5.12	1.39	1.35
1	AA	1463	U	C2-O2	5.12	1.26	1.22
2	AB	36	A	C6-N6	-5.12	1.29	1.33
25	BA	91	C	C4'-O4'	-5.12	1.38	1.45
26	BB	43	G	C5-C4	-5.12	1.34	1.38
26	BB	467	G	C2-N3	5.12	1.36	1.32
26	BB	469	G	C6-O6	-5.12	1.19	1.24
26	BB	701	G	C4'-O4'	-5.12	1.38	1.45
26	BB	1071	G	N7-C5	-5.12	1.36	1.39
26	BB	1085	A	P-O5'	5.12	1.64	1.59
26	BB	1123	C	C4'-O4'	-5.12	1.38	1.45
26	BB	1288	G	C4'-C3'	5.12	1.58	1.53
26	BB	1410	G	C2'-C1'	5.12	1.58	1.53
26	BB	1852	U	C2-O2	5.12	1.26	1.22
26	BB	2063	C	C4-C5	5.12	1.47	1.43
26	BB	2430	A	C6-N1	5.12	1.39	1.35
26	BB	2577	A	C2-N3	5.12	1.38	1.33
26	BB	2740	A	C5-C6	5.12	1.45	1.41
1	AA	692	U	C4-O4	-5.12	1.19	1.23
1	AA	821	G	C6-O6	-5.12	1.19	1.24
1	AA	1437	A	C4'-O4'	-5.12	1.38	1.45
26	BB	134	G	N7-C5	5.12	1.42	1.39
26	BB	299	A	C5-C6	5.12	1.45	1.41
26	BB	548	G	O4'-C1'	5.12	1.48	1.41
26	BB	1047	G	O3'-P	5.12	1.67	1.61
26	BB	1221	C	C5'-C4'	5.12	1.57	1.51
26	BB	1400	U	C4-O4	-5.12	1.19	1.23
26	BB	1765	U	N1-C2	-5.12	1.33	1.38
26	BB	1870	C	N1-C6	5.12	1.40	1.37
26	BB	2025	C	P-O5'	5.12	1.64	1.59
26	BB	2541	A	N3-C4	5.12	1.38	1.34
26	BB	2900	A	C3'-C2'	5.12	1.58	1.52
41	BQ	36	TYR	CE1-CZ	5.12	1.45	1.38
1	AA	81	A	C4'-C3'	-5.12	1.47	1.52
1	AA	980	C	C2-N3	-5.12	1.31	1.35
26	BB	1928	A	N7-C5	-5.12	1.36	1.39
26	BB	1988	G	C5-C4	5.12	1.42	1.38
26	BB	2060	A	C3'-C2'	5.12	1.58	1.52
1	AA	146	G	C8-N7	-5.12	1.27	1.30
1	AA	804	U	P-O5'	-5.12	1.54	1.59
1	AA	1383	C	O3'-P	-5.12	1.55	1.61
1	AA	1472	U	C2-O2	5.12	1.26	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	287	G	N1-C2	5.12	1.41	1.37
26	BB	701	G	N3-C4	5.12	1.39	1.35
26	BB	780	G	C5'-C4'	-5.12	1.45	1.51
26	BB	1521	G	P-O5'	-5.12	1.54	1.59
26	BB	1767	G	O4'-C1'	5.12	1.48	1.41
26	BB	1964	G	C5-C6	5.12	1.47	1.42
26	BB	2073	C	N1-C6	5.12	1.40	1.37
26	BB	2526	G	N7-C5	5.12	1.42	1.39
26	BB	2583	G	N7-C5	5.12	1.42	1.39
26	BB	2789	C	C3'-C2'	5.12	1.58	1.52
1	AA	1343	G	N9-C8	5.12	1.41	1.37
26	BB	41	C	N1-C2	5.12	1.45	1.40
26	BB	247	G	C2-N3	5.12	1.36	1.32
26	BB	673	C	C4-C5	5.12	1.47	1.43
26	BB	899	A	C8-N7	5.12	1.35	1.31
26	BB	1007	C	O4'-C1'	5.12	1.48	1.41
26	BB	1673	G	C5'-C4'	5.12	1.57	1.51
26	BB	2232	C	C5'-C4'	5.12	1.57	1.51
26	BB	2354	C	C1'-N1	5.12	1.56	1.48
4	AD	65	G	N7-C5	5.12	1.42	1.39
8	AH	7	ALA	C-N	5.12	1.42	1.33
26	BB	327	G	C3'-C2'	-5.12	1.47	1.52
26	BB	1094	U	C4-C5	5.12	1.48	1.43
26	BB	1477	A	C3'-C2'	5.12	1.58	1.52
26	BB	1559	U	P-O5'	5.12	1.64	1.59
26	BB	1584	U	P-O5'	5.12	1.64	1.59
26	BB	1841	U	N3-C4	5.12	1.43	1.38
26	BB	2425	A	C5'-C4'	5.12	1.57	1.51
26	BB	2704	C	C4'-O4'	-5.12	1.38	1.45
26	BB	2716	C	P-O5'	5.12	1.64	1.59
4	AD	12	G	N9-C4	-5.11	1.33	1.38
16	AP	112	ARG	NE-CZ	5.11	1.39	1.33
26	BB	476	G	O4'-C1'	5.11	1.48	1.41
26	BB	1583	A	C4'-O4'	-5.11	1.39	1.45
26	BB	2272	U	C4-C5	5.11	1.48	1.43
26	BB	2665	A	N3-C4	5.11	1.38	1.34
26	BB	2753	A	C8-N7	-5.11	1.27	1.31
1	AA	808	C	C4'-O4'	-5.11	1.39	1.45
1	AA	922	G	C2'-C1'	-5.11	1.47	1.53
25	BA	69	G	C4'-O4'	-5.11	1.39	1.45
26	BB	1683	U	C3'-C2'	5.11	1.58	1.52
26	BB	1821	A	N3-C4	5.11	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2074	U	N1-C2	5.11	1.43	1.38
26	BB	2879	A	N3-C4	5.11	1.38	1.34
1	AA	265	G	N3-C4	5.11	1.39	1.35
1	AA	511	C	C5-C6	5.11	1.38	1.34
1	AA	532	A	C5'-C4'	5.11	1.57	1.51
1	AA	579	A	C5'-C4'	5.11	1.57	1.51
1	AA	656	G	N9-C8	-5.11	1.34	1.37
2	AB	38	A	N9-C4	5.11	1.41	1.37
4	AD	19	G	N3-C4	5.11	1.39	1.35
26	BB	73	A	C5-C4	-5.11	1.35	1.38
26	BB	807	U	C5-C6	5.11	1.38	1.34
26	BB	811	U	C4-O4	5.11	1.27	1.23
26	BB	1200	C	N3-C4	-5.11	1.30	1.33
26	BB	1514	G	P-O5'	5.11	1.64	1.59
26	BB	1702	G	C5-C6	5.11	1.47	1.42
26	BB	2027	G	C8-N7	-5.11	1.27	1.30
26	BB	2168	G	N9-C4	5.11	1.42	1.38
26	BB	2395	C	N1-C2	5.11	1.45	1.40
26	BB	2649	C	C3'-C2'	-5.11	1.47	1.52
26	BB	2822	G	C8-N7	5.11	1.34	1.30
1	AA	773	G	N1-C2	5.11	1.41	1.37
2	AB	5	G	C5-C4	-5.11	1.34	1.38
25	BA	9	G	N9-C8	-5.11	1.34	1.37
26	BB	456	C	C2-O2	-5.11	1.19	1.24
1	AA	165	G	C2-N3	5.11	1.36	1.32
1	AA	325	A	C2'-O2'	5.11	1.48	1.41
1	AA	855	U	C2'-O2'	5.11	1.48	1.41
1	AA	1008	U	C5-C6	5.11	1.38	1.34
1	AA	1196	A	O3'-P	-5.11	1.55	1.61
1	AA	1353	G	C2-N3	5.11	1.36	1.32
2	AB	52	A	C5'-C4'	5.11	1.57	1.51
26	BB	157	C	O3'-P	5.11	1.67	1.61
26	BB	177	G	C1'-N9	5.11	1.56	1.48
26	BB	382	A	C5-C4	-5.11	1.35	1.38
26	BB	680	C	N3-C4	-5.11	1.30	1.33
26	BB	752	A	C4'-O4'	-5.11	1.39	1.45
26	BB	1649	G	N3-C4	5.11	1.39	1.35
26	BB	1766	G	C2-N3	5.11	1.36	1.32
26	BB	2141	G	N1-C2	5.11	1.41	1.37
26	BB	2618	G	C4'-O4'	-5.11	1.39	1.45
51	B0	12	GLU	CB-CG	5.11	1.61	1.52
1	AA	1154	G	C5-C4	5.11	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1257	A	N9-C8	-5.11	1.33	1.37
1	AA	1500	A	P-O5'	5.11	1.64	1.59
25	BA	115	A	C6-N1	5.11	1.39	1.35
26	BB	415	A	C4'-C3'	-5.11	1.47	1.52
26	BB	502	A	P-O5'	5.11	1.64	1.59
26	BB	791	C	C4-C5	5.11	1.47	1.43
26	BB	973	A	N1-C2	-5.11	1.29	1.34
26	BB	1441	G	N3-C4	-5.11	1.31	1.35
26	BB	1651	G	C2-N2	-5.11	1.29	1.34
26	BB	1820	U	C5'-C4'	5.11	1.57	1.51
26	BB	2186	G	C4'-O4'	-5.11	1.39	1.45
26	BB	2803	G	O3'-P	5.11	1.67	1.61
25	BA	22	U	O3'-P	5.10	1.67	1.61
26	BB	245	G	C2-N2	-5.10	1.29	1.34
26	BB	853	C	N1-C6	-5.10	1.34	1.37
26	BB	881	G	C6-O6	5.10	1.28	1.24
1	AA	31	G	N7-C5	-5.10	1.36	1.39
1	AA	782	A	C3'-O3'	5.10	1.49	1.42
1	AA	813	U	C2-N3	-5.10	1.34	1.37
10	AJ	131	GLY	CA-C	5.10	1.60	1.51
26	BB	26	G	C5-C4	-5.10	1.34	1.38
26	BB	67	U	C4'-O4'	-5.10	1.39	1.45
26	BB	362	A	C4'-C3'	5.10	1.58	1.53
26	BB	596	U	P-O5'	5.10	1.64	1.59
26	BB	900	A	C2-N3	5.10	1.38	1.33
26	BB	1180	U	P-O5'	5.10	1.64	1.59
26	BB	1646	C	C4'-O4'	-5.10	1.39	1.45
26	BB	1674	G	C8-N7	-5.10	1.27	1.30
26	BB	1756	G	P-O5'	5.10	1.64	1.59
26	BB	1524	G	N9-C4	5.10	1.42	1.38
26	BB	2360	G	C4'-C3'	5.10	1.58	1.53
1	AA	33	A	C6-N1	-5.10	1.31	1.35
1	AA	624	C	N3-C4	-5.10	1.30	1.33
1	AA	777	A	P-O5'	5.10	1.64	1.59
1	AA	1046	A	C2-N3	-5.10	1.28	1.33
1	AA	1294	G	P-O5'	5.10	1.64	1.59
1	AA	1307	U	C4'-O4'	-5.10	1.39	1.45
1	AA	1356	G	N3-C4	5.10	1.39	1.35
2	AB	26	A	C4'-C3'	-5.10	1.47	1.52
3	AC	17	U	C3'-O3'	-5.10	1.35	1.42
25	BA	84	G	C5-C4	-5.10	1.34	1.38
26	BB	74	A	C4'-O4'	-5.10	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	196	A	C5-C4	5.10	1.42	1.38
26	BB	312	G	N3-C4	5.10	1.39	1.35
26	BB	1212	G	C6-N1	-5.10	1.35	1.39
26	BB	1813	G	C3'-C2'	-5.10	1.47	1.52
26	BB	1822	C	C4-N4	-5.10	1.29	1.33
26	BB	1952	A	C6-N1	5.10	1.39	1.35
26	BB	2269	G	C6-N1	5.10	1.43	1.39
25	BA	6	G	C5-C6	5.10	1.47	1.42
26	BB	597	G	N1-C2	-5.10	1.33	1.37
26	BB	654	A	C6-N6	5.10	1.38	1.33
26	BB	732	C	C5'-C4'	5.10	1.57	1.51
26	BB	758	C	N3-C4	-5.10	1.30	1.33
26	BB	994	C	C3'-O3'	5.10	1.49	1.42
26	BB	1150	C	N3-C4	5.10	1.37	1.33
26	BB	1411	U	C1'-N1	5.10	1.56	1.48
26	BB	1754	A	P-OP1	-5.10	1.40	1.49
26	BB	2281	A	N3-C4	5.10	1.38	1.34
26	BB	2473	U	O4'-C1'	5.10	1.48	1.41
1	AA	259	G	P-O5'	5.10	1.64	1.59
26	BB	1271	G	C4'-C3'	-5.10	1.47	1.52
26	BB	1750	G	C6-N1	5.10	1.43	1.39
26	BB	2331	G	C3'-C2'	5.10	1.58	1.52
26	BB	2338	C	C2-O2	-5.10	1.19	1.24
1	AA	699	C	C4'-O4'	-5.09	1.39	1.45
1	AA	831	A	N9-C4	5.09	1.41	1.37
3	AC	30	U	C3'-C2'	5.09	1.58	1.52
25	BA	18	G	O3'-P	-5.09	1.55	1.61
26	BB	255	A	N9-C8	-5.09	1.33	1.37
26	BB	1061	U	C2'-C1'	5.09	1.58	1.53
26	BB	1201	U	C4'-O4'	-5.09	1.39	1.45
26	BB	1206	G	N1-C2	-5.09	1.33	1.37
27	BC	78	PHE	CE2-CZ	5.09	1.47	1.37
1	AA	382	A	C5-C4	5.09	1.42	1.38
1	AA	1146	A	C6-N1	5.09	1.39	1.35
26	BB	512	G	C2-N3	5.09	1.36	1.32
26	BB	675	A	C6-N6	-5.09	1.29	1.33
26	BB	2354	C	C2'-O2'	5.09	1.48	1.41
26	BB	2448	A	N3-C4	5.09	1.38	1.34
26	BB	2807	U	O3'-P	5.09	1.67	1.61
26	BB	2839	G	P-O5'	-5.09	1.54	1.59
1	AA	496	A	C6-N6	5.09	1.38	1.33
1	AA	610	U	C1'-N1	5.09	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	629	A	C2-N3	-5.09	1.28	1.33
1	AA	1478	U	N3-C4	5.09	1.43	1.38
3	AC	57	C	N1-C6	5.09	1.40	1.37
26	BB	1189	A	C2-N3	5.09	1.38	1.33
26	BB	1940	U	C5-C6	5.09	1.38	1.34
26	BB	2455	G	C8-N7	-5.09	1.27	1.30
26	BB	2695	U	C2-N3	5.09	1.41	1.37
1	AA	76	G	C5-C4	-5.09	1.34	1.38
1	AA	771	G	C4'-C3'	-5.09	1.47	1.52
1	AA	927	G	N3-C4	5.09	1.39	1.35
1	AA	1353	G	C2'-C1'	-5.09	1.47	1.53
26	BB	457	A	N3-C4	-5.09	1.31	1.34
26	BB	773	U	C4'-O4'	-5.09	1.39	1.45
26	BB	1473	G	N9-C4	5.09	1.42	1.38
26	BB	1852	U	O3'-P	5.09	1.67	1.61
26	BB	2307	G	P-O5'	5.09	1.64	1.59
26	BB	2377	A	N9-C4	-5.09	1.34	1.37
26	BB	2500	U	C4-O4	-5.09	1.19	1.23
26	BB	2661	G	C8-N7	-5.09	1.27	1.30
1	AA	686	U	C4-C5	5.09	1.48	1.43
1	AA	1138	G	O4'-C1'	5.09	1.48	1.41
25	BA	46	A	C5'-C4'	5.09	1.57	1.51
26	BB	475	C	C5-C6	5.09	1.38	1.34
26	BB	1181	U	N3-C4	5.09	1.43	1.38
26	BB	1290	C	C2-O2	5.09	1.29	1.24
1	AA	646	G	C5-C4	5.09	1.42	1.38
26	BB	121	G	N3-C4	5.09	1.39	1.35
26	BB	598	U	O3'-P	5.09	1.67	1.61
26	BB	961	C	C2-N3	-5.09	1.31	1.35
26	BB	1331	G	P-O5'	5.09	1.64	1.59
26	BB	1548	A	O4'-C1'	-5.09	1.35	1.41
26	BB	2027	G	C3'-C2'	5.09	1.58	1.52
26	BB	2244	U	C2-N3	5.09	1.41	1.37
1	AA	513	C	N1-C6	5.08	1.40	1.37
1	AA	1318	A	C6-N1	5.08	1.39	1.35
26	BB	24	G	C4'-O4'	-5.08	1.39	1.45
26	BB	1179	G	N1-C2	5.08	1.41	1.37
26	BB	1377	G	N7-C5	5.08	1.42	1.39
26	BB	2867	G	C8-N7	5.08	1.34	1.30
3	AC	24	A	C8-N7	5.08	1.35	1.31
3	AC	35	G	C6-N1	5.08	1.43	1.39
4	AD	6	G	N9-C8	-5.08	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	153	U	C3'-C2'	5.08	1.58	1.52
26	BB	355	U	N3-C4	-5.08	1.33	1.38
26	BB	964	C	C1'-N1	5.08	1.56	1.48
1	AA	285	C	C4'-C3'	5.08	1.58	1.53
1	AA	1104	G	N7-C5	-5.08	1.36	1.39
1	AA	1302	C	O3'-P	-5.08	1.55	1.61
1	AA	1366	C	C4'-C3'	-5.08	1.47	1.52
26	BB	847	U	C3'-C2'	5.08	1.58	1.52
26	BB	887	U	C4'-C3'	5.08	1.58	1.53
26	BB	909	A	C8-N7	-5.08	1.27	1.31
26	BB	922	C	N3-C4	5.08	1.37	1.33
26	BB	1890	A	N9-C8	5.08	1.41	1.37
26	BB	2568	U	C5-C6	-5.08	1.29	1.34
26	BB	2774	C	N1-C6	5.08	1.40	1.37
1	AA	204	G	C8-N7	5.08	1.33	1.30
1	AA	541	G	C4'-O4'	-5.08	1.39	1.45
1	AA	614	C	N3-C4	5.08	1.37	1.33
26	BB	1964	G	P-O5'	5.08	1.64	1.59
26	BB	2110	G	C3'-O3'	-5.08	1.35	1.42
1	AA	125	U	O3'-P	5.08	1.67	1.61
1	AA	679	C	C4-N4	-5.08	1.29	1.33
1	AA	848	C	N1-C2	5.08	1.45	1.40
1	AA	1353	G	C5-C6	5.08	1.47	1.42
1	AA	1380	U	C3'-C2'	5.08	1.58	1.52
26	BB	196	A	N1-C2	-5.08	1.29	1.34
26	BB	1041	G	C5'-C4'	5.08	1.57	1.51
26	BB	1182	G	C2-N2	-5.08	1.29	1.34
26	BB	1313	U	C5-C6	5.08	1.38	1.34
26	BB	1545	A	O4'-C1'	5.08	1.48	1.41
26	BB	2061	G	C5-C4	-5.08	1.34	1.38
26	BB	2341	G	C2'-O2'	5.08	1.48	1.41
26	BB	2368	C	N1-C2	5.08	1.45	1.40
26	BB	2398	U	C2-N3	5.08	1.41	1.37
26	BB	2778	A	P-O5'	5.08	1.64	1.59
1	AA	327	A	C4'-O4'	-5.08	1.39	1.45
1	AA	1061	G	C5-C6	5.08	1.47	1.42
1	AA	1159	U	C3'-O3'	5.08	1.49	1.42
1	AA	1434	A	N7-C5	-5.08	1.36	1.39
26	BB	423	A	C2-N3	5.08	1.38	1.33
26	BB	606	U	C4'-O4'	-5.08	1.39	1.45
26	BB	659	G	O3'-P	5.08	1.67	1.61
26	BB	819	A	C2'-O2'	-5.08	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1474	U	O5'-C5'	5.08	1.52	1.44
26	BB	2151	U	C5'-C4'	5.08	1.57	1.51
1	AA	199	A	N9-C4	5.08	1.40	1.37
1	AA	275	G	P-O5'	5.08	1.64	1.59
1	AA	801	U	C5-C6	5.08	1.38	1.34
1	AA	1253	G	N9-C8	-5.08	1.34	1.37
4	AD	19	G	C6-O6	-5.08	1.19	1.24
26	BB	112	U	C2-O2	5.08	1.26	1.22
26	BB	257	C	C4-C5	5.08	1.47	1.43
26	BB	573	U	C4-C5	5.08	1.48	1.43
26	BB	596	U	C4-O4	5.08	1.27	1.23
26	BB	896	A	C6-N6	-5.08	1.29	1.33
26	BB	1314	C	N1-C6	5.08	1.40	1.37
26	BB	1667	G	N9-C4	5.08	1.42	1.38
26	BB	1971	U	C2-O2	5.08	1.26	1.22
26	BB	2517	C	O3'-P	5.08	1.67	1.61
26	BB	1280	G	N1-C2	5.07	1.41	1.37
26	BB	1537	G	P-O5'	5.07	1.64	1.59
26	BB	1982	U	C4'-C3'	-5.07	1.47	1.52
26	BB	2263	C	N1-C6	5.07	1.40	1.37
26	BB	2488	G	N9-C8	-5.07	1.34	1.37
26	BB	2741	A	O3'-P	5.07	1.67	1.61
26	BB	2903	U	N3-C4	-5.07	1.33	1.38
1	AA	841	C	P-O5'	5.07	1.64	1.59
26	BB	36	G	C2-N3	5.07	1.36	1.32
26	BB	325	G	C6-N1	-5.07	1.35	1.39
26	BB	783	A	N3-C4	5.07	1.37	1.34
26	BB	1992	G	N9-C8	5.07	1.41	1.37
26	BB	2127	G	N3-C4	5.07	1.39	1.35
26	BB	2244	U	C4'-O4'	-5.07	1.39	1.45
26	BB	2878	U	C3'-O3'	-5.07	1.35	1.42
1	AA	108	G	C4'-O4'	-5.07	1.39	1.45
1	AA	345	C	N3-C4	-5.07	1.30	1.33
1	AA	615	G	C5-C4	5.07	1.42	1.38
1	AA	653	U	N1-C6	5.07	1.42	1.38
1	AA	1028	C	C2-N3	5.07	1.39	1.35
2	AB	29	G	C2-N3	5.07	1.36	1.32
4	AD	18	U	C5'-C4'	5.07	1.57	1.51
5	AE	21	TYR	CE2-CZ	5.07	1.45	1.38
26	BB	703	U	C4'-C3'	5.07	1.58	1.53
26	BB	820	A	P-O5'	5.07	1.64	1.59
26	BB	1737	G	C8-N7	5.07	1.33	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1923	U	P-O5'	5.07	1.64	1.59
26	BB	2282	G	C4'-O4'	-5.07	1.39	1.45
26	BB	2887	A	O4'-C1'	-5.07	1.35	1.41
1	AA	272	C	C4'-C3'	-5.07	1.47	1.52
26	BB	79	C	P-O5'	5.07	1.64	1.59
26	BB	674	G	C5'-C4'	5.07	1.57	1.51
26	BB	1591	A	C6-N1	5.07	1.39	1.35
1	AA	636	U	C5-C6	5.07	1.38	1.34
1	AA	661	G	C2-N3	5.07	1.36	1.32
1	AA	666	G	C6-O6	-5.07	1.19	1.24
2	AB	23	A	C5-C4	-5.07	1.35	1.38
2	AB	75	C	C2-N3	5.07	1.39	1.35
25	BA	30	C	C2'-C1'	-5.07	1.47	1.53
26	BB	34	U	C5-C6	5.07	1.38	1.34
26	BB	131	A	N9-C8	-5.07	1.33	1.37
26	BB	586	A	C5'-C4'	5.07	1.57	1.51
26	BB	1067	A	C6-N1	5.07	1.39	1.35
26	BB	1534	U	N1-C2	5.07	1.43	1.38
26	BB	1743	G	N9-C8	5.07	1.41	1.37
26	BB	1904	G	C8-N7	5.07	1.33	1.30
26	BB	2099	U	N1-C6	5.07	1.42	1.38
26	BB	2890	G	C5-C4	5.07	1.41	1.38
1	AA	45	G	O3'-P	5.07	1.67	1.61
1	AA	243	A	C4'-O4'	-5.07	1.39	1.45
1	AA	406	G	C4'-O4'	-5.07	1.39	1.45
1	AA	493	A	O4'-C1'	5.07	1.48	1.41
1	AA	600	A	C6-N1	-5.07	1.32	1.35
1	AA	941	G	C4'-O4'	-5.07	1.39	1.45
1	AA	1032	G	N9-C8	5.07	1.41	1.37
1	AA	1288	A	C5-C4	-5.07	1.35	1.38
26	BB	649	G	C5-C4	-5.07	1.34	1.38
26	BB	1551	A	N9-C4	5.07	1.40	1.37
26	BB	1692	U	N3-C4	5.07	1.43	1.38
26	BB	1760	C	C5-C6	-5.07	1.30	1.34
26	BB	2281	A	C6-N1	5.07	1.39	1.35
26	BB	2359	C	O4'-C1'	5.07	1.48	1.41
26	BB	2513	A	N7-C5	5.07	1.42	1.39
1	AA	43	C	C4-N4	5.06	1.38	1.33
1	AA	760	G	P-O5'	5.06	1.64	1.59
1	AA	1266	G	C4'-O4'	-5.06	1.39	1.45
1	AA	1535	C	O4'-C1'	-5.06	1.35	1.41
2	AB	70	C	P-O5'	5.06	1.64	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	3	U	C2-N3	5.06	1.41	1.37
26	BB	416	U	C2'-C1'	-5.06	1.47	1.53
26	BB	868	U	C3'-C2'	5.06	1.58	1.52
26	BB	1651	G	C5-C6	5.06	1.47	1.42
1	AA	411	A	O4'-C1'	5.06	1.48	1.41
1	AA	977	A	C3'-C2'	-5.06	1.47	1.52
1	AA	1004	A	C5-C4	5.06	1.42	1.38
1	AA	1188	A	C8-N7	5.06	1.35	1.31
2	AB	18	G	C6-O6	5.06	1.28	1.24
25	BA	6	G	C5-C4	5.06	1.41	1.38
26	BB	52	A	N9-C4	5.06	1.40	1.37
26	BB	340	A	C4'-O4'	-5.06	1.39	1.45
26	BB	576	U	C5-C6	5.06	1.38	1.34
26	BB	1125	G	N7-C5	5.06	1.42	1.39
26	BB	1315	C	O4'-C1'	5.06	1.48	1.41
26	BB	1579	A	P-O5'	5.06	1.64	1.59
26	BB	2886	A	N9-C8	-5.06	1.33	1.37
1	AA	464	U	C5-C6	5.06	1.38	1.34
10	AJ	138	GLU	CD-OE1	-5.06	1.20	1.25
26	BB	303	G	N3-C4	5.06	1.39	1.35
26	BB	1286	A	C3'-C2'	5.06	1.58	1.52
26	BB	1586	A	C2-N3	-5.06	1.28	1.33
26	BB	1645	G	C3'-C2'	-5.06	1.47	1.52
26	BB	1703	G	N7-C5	5.06	1.42	1.39
26	BB	2089	C	C4-C5	5.06	1.47	1.43
1	AA	18	C	O3'-P	5.06	1.67	1.61
1	AA	192	A	O3'-P	-5.06	1.55	1.61
1	AA	480	U	C3'-C2'	5.06	1.58	1.52
1	AA	878	A	N9-C8	-5.06	1.33	1.37
1	AA	1318	A	N9-C8	-5.06	1.33	1.37
2	AB	65	C	C5-C6	5.06	1.38	1.34
25	BA	69	G	C5'-C4'	5.06	1.57	1.51
26	BB	898	C	O4'-C1'	5.06	1.48	1.41
26	BB	951	C	P-O5'	5.06	1.64	1.59
26	BB	1740	G	C2'-C1'	5.06	1.58	1.53
26	BB	2082	A	N7-C5	-5.06	1.36	1.39
26	BB	2419	U	C4'-O4'	-5.06	1.39	1.45
26	BB	2550	G	C6-O6	-5.06	1.19	1.24
55	B4	19	PHE	CE1-CZ	5.06	1.47	1.37
1	AA	230	G	C6-N1	5.06	1.43	1.39
1	AA	263	A	O3'-P	5.06	1.67	1.61
1	AA	303	A	C3'-C2'	-5.06	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	766	A	C4'-C3'	5.06	1.58	1.53
1	AA	840	C	P-O5'	5.06	1.64	1.59
4	AD	31	G	C2-N2	-5.06	1.29	1.34
26	BB	297	G	C3'-C2'	5.06	1.58	1.52
26	BB	311	A	C3'-C2'	5.06	1.58	1.52
26	BB	359	G	N9-C8	-5.06	1.34	1.37
26	BB	755	U	C4-C5	5.06	1.48	1.43
26	BB	1083	U	O5'-C5'	-5.06	1.34	1.42
26	BB	1786	A	C5-C6	5.06	1.45	1.41
26	BB	2040	G	N9-C4	5.06	1.42	1.38
26	BB	2219	U	N1-C2	5.06	1.43	1.38
26	BB	2272	U	C4'-O4'	-5.06	1.39	1.45
26	BB	2838	G	C5'-C4'	5.06	1.57	1.51
36	BL	129	GLU	CG-CD	5.06	1.59	1.51
1	AA	900	A	P-O5'	-5.06	1.54	1.59
1	AA	1164	G	O3'-P	5.06	1.67	1.61
1	AA	1494	G	P-O5'	5.06	1.64	1.59
4	AD	58	A	C6-N1	-5.06	1.32	1.35
26	BB	46	G	C6-O6	-5.06	1.19	1.24
26	BB	931	U	C4-C5	-5.06	1.39	1.43
1	AA	113	G	C6-O6	-5.05	1.19	1.24
1	AA	168	G	C3'-C2'	5.05	1.58	1.52
1	AA	310	G	N7-C5	5.05	1.42	1.39
1	AA	929	G	C5-C6	5.05	1.47	1.42
1	AA	1391	U	C5-C6	5.05	1.38	1.34
26	BB	768	G	N3-C4	5.05	1.39	1.35
26	BB	816	C	C2-N3	5.05	1.39	1.35
26	BB	899	A	C2'-C1'	-5.05	1.47	1.53
26	BB	923	G	C6-N1	5.05	1.43	1.39
26	BB	1877	A	C3'-C2'	5.05	1.58	1.52
26	BB	1987	A	C5-C4	-5.05	1.35	1.38
26	BB	1997	C	P-O5'	5.05	1.64	1.59
26	BB	2096	C	C2-O2	-5.05	1.20	1.24
26	BB	2495	G	C5'-C4'	5.05	1.57	1.51
26	BB	2705	A	C6-N6	-5.05	1.29	1.33
1	AA	1133	G	C4'-O4'	-5.05	1.39	1.45
26	BB	170	U	C4-O4	5.05	1.27	1.23
26	BB	953	G	C5-C4	-5.05	1.34	1.38
26	BB	1709	U	N3-C4	-5.05	1.33	1.38
26	BB	2090	A	C4'-C3'	-5.05	1.47	1.52
1	AA	5	U	O3'-P	5.05	1.67	1.61
1	AA	632	U	N1-C2	5.05	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1068	G	C2-N3	5.05	1.36	1.32
4	AD	18	U	C2-N3	5.05	1.41	1.37
10	AJ	176	TYR	CE1-CZ	5.05	1.45	1.38
25	BA	69	G	C3'-C2'	5.05	1.58	1.52
26	BB	254	G	N7-C5	-5.05	1.36	1.39
26	BB	501	A	C1'-N9	-5.05	1.39	1.46
26	BB	552	U	C5'-C4'	5.05	1.57	1.51
26	BB	648	G	N9-C8	-5.05	1.34	1.37
26	BB	1588	G	N3-C4	-5.05	1.31	1.35
26	BB	2261	C	C2-O2	-5.05	1.20	1.24
26	BB	2716	C	C4-C5	5.05	1.47	1.43
1	AA	871	U	P-O5'	5.05	1.64	1.59
1	AA	915	A	N7-C5	5.05	1.42	1.39
1	AA	1372	U	N1-C2	5.05	1.43	1.38
26	BB	742	A	C2'-O2'	-5.05	1.35	1.41
26	BB	938	G	P-O5'	5.05	1.64	1.59
26	BB	1283	G	C6-O6	-5.05	1.19	1.24
26	BB	1676	A	C8-N7	-5.05	1.28	1.31
26	BB	1826	G	C8-N7	-5.05	1.27	1.30
26	BB	1903	G	C5-C6	5.05	1.47	1.42
37	BM	70	ARG	CZ-NH1	5.05	1.39	1.33
1	AA	240	G	N9-C4	5.05	1.42	1.38
1	AA	271	C	N1-C6	5.05	1.40	1.37
1	AA	1185	G	C6-N1	5.05	1.43	1.39
26	BB	220	G	C4'-O4'	5.05	1.52	1.45
26	BB	361	G	C5-C6	5.05	1.47	1.42
26	BB	491	G	C4'-C3'	5.05	1.58	1.53
1	AA	446	G	N9-C4	-5.05	1.33	1.38
1	AA	737	C	C4'-O4'	-5.05	1.39	1.45
1	AA	785	G	C4'-O4'	-5.05	1.39	1.45
1	AA	1288	A	O3'-P	5.05	1.67	1.61
3	AC	27	A	N3-C4	5.05	1.37	1.34
23	AW	50	PHE	CG-CD2	5.05	1.46	1.38
26	BB	1269	A	N3-C4	5.05	1.37	1.34
26	BB	1589	U	C4-C5	5.05	1.48	1.43
26	BB	1715	G	N7-C5	5.05	1.42	1.39
26	BB	1858	A	N9-C4	-5.05	1.34	1.37
26	BB	2346	A	N7-C5	5.05	1.42	1.39
26	BB	2695	U	C2'-O2'	5.05	1.48	1.41
1	AA	360	G	C2-N2	5.04	1.39	1.34
1	AA	1451	U	C2-O2	5.04	1.26	1.22
26	BB	131	A	P-O5'	5.04	1.64	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1408	G	C5-C4	-5.04	1.34	1.38
26	BB	1637	A	N9-C4	-5.04	1.34	1.37
1	AA	470	C	C5'-C4'	5.04	1.57	1.51
1	AA	1267	C	C5-C6	-5.04	1.30	1.34
1	AA	1317	C	C5-C6	5.04	1.38	1.34
26	BB	378	C	C2-N3	5.04	1.39	1.35
26	BB	914	G	C2'-O2'	-5.04	1.35	1.41
26	BB	1189	A	C2'-O2'	-5.04	1.35	1.41
26	BB	1323	C	N1-C2	-5.04	1.35	1.40
26	BB	1490	A	N1-C2	-5.04	1.29	1.34
26	BB	1508	A	C2-N3	-5.04	1.29	1.33
26	BB	2396	G	C2'-C1'	-5.04	1.47	1.53
26	BB	2868	A	N3-C4	5.04	1.37	1.34
31	BG	139	GLU	CD-OE2	-5.04	1.20	1.25
1	AA	273	U	C5-C6	5.04	1.38	1.34
1	AA	323	U	C2'-C1'	-5.04	1.47	1.53
1	AA	812	G	N1-C2	5.04	1.41	1.37
1	AA	1231	G	C4'-C3'	5.04	1.58	1.53
26	BB	205	G	N1-C2	-5.04	1.33	1.37
26	BB	1677	A	C3'-C2'	5.04	1.58	1.52
26	BB	1729	U	C2-O2	5.04	1.26	1.22
26	BB	1808	A	C6-N6	-5.04	1.29	1.33
1	AA	421	U	C5-C6	5.04	1.38	1.34
1	AA	954	G	N1-C2	5.04	1.41	1.37
1	AA	1353	G	C6-O6	-5.04	1.19	1.24
5	AE	34	ARG	CZ-NH2	5.04	1.39	1.33
26	BB	415	A	C8-N7	-5.04	1.28	1.31
26	BB	1565	C	C5'-C4'	5.04	1.57	1.51
26	BB	1760	C	C5'-C4'	5.04	1.57	1.51
26	BB	2791	G	C5-C4	-5.04	1.34	1.38
1	AA	64	G	N3-C4	5.04	1.39	1.35
1	AA	164	G	N1-C2	5.04	1.41	1.37
1	AA	721	G	N7-C5	-5.04	1.36	1.39
1	AA	738	C	C5-C6	5.04	1.38	1.34
1	AA	1030	U	P-O5'	-5.04	1.54	1.59
25	BA	54	G	N1-C2	5.04	1.41	1.37
26	BB	526	A	C6-N6	-5.04	1.29	1.33
26	BB	623	C	C5'-C4'	5.04	1.57	1.51
26	BB	1034	G	N3-C4	-5.04	1.31	1.35
26	BB	1358	G	C6-N1	5.04	1.43	1.39
26	BB	1927	A	N3-C4	5.04	1.37	1.34
26	BB	2000	C	C3'-C2'	5.04	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1194	U	C2'-C1'	-5.04	1.47	1.53
26	BB	484	C	N1-C2	5.04	1.45	1.40
26	BB	889	C	C2'-C1'	5.04	1.58	1.53
26	BB	1246	A	P-O5'	5.04	1.64	1.59
26	BB	1675	C	C4-C5	-5.04	1.39	1.43
1	AA	434	U	C2-N3	-5.04	1.34	1.37
1	AA	564	C	C2'-C1'	5.04	1.58	1.53
1	AA	620	C	C5-C6	5.04	1.38	1.34
1	AA	724	G	C2-N3	5.04	1.36	1.32
1	AA	1146	A	P-O5'	5.04	1.64	1.59
1	AA	1186	G	C4'-C3'	-5.04	1.47	1.52
3	AC	33	A	P-O5'	5.04	1.64	1.59
25	BA	32	U	O3'-P	5.04	1.67	1.61
26	BB	118	A	C2'-O2'	5.04	1.48	1.41
26	BB	838	C	C1'-N1	5.04	1.56	1.48
26	BB	1005	C	N1-C2	-5.04	1.35	1.40
26	BB	1380	G	P-O5'	5.04	1.64	1.59
26	BB	1454	C	C5'-C4'	5.04	1.57	1.51
26	BB	1666	G	C6-O6	-5.04	1.19	1.24
26	BB	2032	G	C5'-C4'	5.04	1.57	1.51
26	BB	2315	G	N9-C8	-5.04	1.34	1.37
27	BC	40	GLU	CB-CG	5.04	1.61	1.52
1	AA	161	A	N9-C4	-5.03	1.34	1.37
1	AA	1096	C	C5-C6	5.03	1.38	1.34
3	AC	24	A	C5-C6	5.03	1.45	1.41
26	BB	62	U	N1-C6	5.03	1.42	1.38
26	BB	1478	G	C5-C6	-5.03	1.37	1.42
26	BB	1479	G	C5-C4	-5.03	1.34	1.38
26	BB	1691	C	N1-C2	5.03	1.45	1.40
26	BB	1770	G	C3'-C2'	-5.03	1.47	1.52
26	BB	2014	A	C4'-C3'	-5.03	1.47	1.52
26	BB	2734	A	C6-N1	5.03	1.39	1.35
36	BL	76	HIS	CB-CG	5.03	1.59	1.50
47	BW	21	ARG	CZ-NH2	5.03	1.39	1.33
26	BB	435	C	C2-O2	-5.03	1.20	1.24
26	BB	865	C	C2'-C1'	-5.03	1.47	1.53
26	BB	1253	A	C4'-O4'	-5.03	1.39	1.45
26	BB	2219	U	C4'-O4'	-5.03	1.39	1.45
26	BB	2459	A	C8-N7	-5.03	1.28	1.31
1	AA	161	A	C5-C4	-5.03	1.35	1.38
1	AA	613	C	C4'-O4'	-5.03	1.39	1.45
1	AA	859	G	C2-N2	5.03	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1031	C	N1-C2	5.03	1.45	1.40
1	AA	1058	G	C2-N2	5.03	1.39	1.34
1	AA	1102	A	C5-C6	5.03	1.45	1.41
1	AA	1454	G	C5-C6	5.03	1.47	1.42
26	BB	611	C	C4-C5	5.03	1.47	1.43
26	BB	834	G	N1-C2	5.03	1.41	1.37
26	BB	1169	A	C8-N7	-5.03	1.28	1.31
26	BB	1583	A	C2'-C1'	5.03	1.58	1.53
26	BB	1949	G	C6-N1	5.03	1.43	1.39
26	BB	2101	A	C2'-O2'	5.03	1.48	1.41
26	BB	2217	G	C5-C6	5.03	1.47	1.42
1	AA	119	A	N1-C2	5.03	1.38	1.34
1	AA	1369	C	C5'-C4'	5.03	1.57	1.51
4	AD	57	C	C4-C5	5.03	1.47	1.43
26	BB	2071	A	N7-C5	5.03	1.42	1.39
26	BB	2708	G	C2-N3	5.03	1.36	1.32
1	AA	362	G	C2-N3	5.03	1.36	1.32
1	AA	553	A	C8-N7	-5.03	1.28	1.31
1	AA	604	G	C5-C6	5.03	1.47	1.42
1	AA	694	A	C5-C4	-5.03	1.35	1.38
1	AA	909	A	C4'-C3'	5.03	1.58	1.53
1	AA	1376	U	C2'-O2'	5.03	1.48	1.41
1	AA	1477	U	C5-C6	5.03	1.38	1.34
3	AC	53	G	C8-N7	5.03	1.33	1.30
4	AD	28	U	P-O5'	5.03	1.64	1.59
26	BB	435	C	N3-C4	5.03	1.37	1.33
26	BB	610	C	C3'-C2'	-5.03	1.47	1.52
26	BB	664	G	C2-N3	5.03	1.36	1.32
26	BB	806	C	N1-C6	-5.03	1.34	1.37
26	BB	936	A	C5-C6	5.03	1.45	1.41
26	BB	989	G	N3-C4	5.03	1.39	1.35
26	BB	1247	A	C5-C6	5.03	1.45	1.41
26	BB	1658	C	C5'-C4'	-5.03	1.45	1.51
26	BB	2184	A	C4'-C3'	5.03	1.58	1.53
38	BN	62	PRO	N-CD	-5.03	1.40	1.47
2	AB	9	A	C3'-O3'	5.03	1.49	1.42
26	BB	66	C	O3'-P	5.03	1.67	1.61
26	BB	352	A	C3'-C2'	5.03	1.58	1.52
26	BB	488	G	C3'-O3'	-5.03	1.35	1.42
26	BB	1105	U	C4'-C3'	5.03	1.58	1.53
26	BB	1217	U	C4-O4	-5.03	1.19	1.23
26	BB	1817	G	C8-N7	-5.03	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1969	A	C5-C4	5.03	1.42	1.38
26	BB	2246	G	C5'-C4'	5.03	1.57	1.51
26	BB	2796	U	C2-N3	5.03	1.41	1.37
1	AA	115	G	P-O5'	-5.02	1.54	1.59
1	AA	1091	U	C5'-C4'	5.02	1.57	1.51
26	BB	2754	U	C2-O2	5.02	1.26	1.22
26	BB	2758	A	C5-C4	5.02	1.42	1.38
1	AA	162	A	C5'-C4'	5.02	1.57	1.51
1	AA	269	C	P-O5'	5.02	1.64	1.59
1	AA	551	U	C2-N3	5.02	1.41	1.37
1	AA	660	C	N1-C6	5.02	1.40	1.37
1	AA	714	G	C8-N7	5.02	1.33	1.30
1	AA	826	C	C4-C5	5.02	1.47	1.43
5	AE	141	GLU	CG-CD	5.02	1.59	1.51
26	BB	1362	C	C5'-C4'	5.02	1.57	1.51
26	BB	1382	G	N9-C4	5.02	1.42	1.38
26	BB	1553	A	N1-C2	-5.02	1.29	1.34
26	BB	2019	A	C8-N7	-5.02	1.28	1.31
26	BB	2169	A	C2'-O2'	-5.02	1.35	1.41
26	BB	2304	G	C2'-O2'	-5.02	1.35	1.41
26	BB	2687	U	C5-C6	5.02	1.38	1.34
26	BB	2745	C	C5'-C4'	5.02	1.57	1.51
1	AA	224	U	C3'-C2'	5.02	1.58	1.52
1	AA	362	G	C4'-O4'	-5.02	1.39	1.45
1	AA	426	U	C4-C5	5.02	1.48	1.43
3	AC	19	A	N9-C4	5.02	1.40	1.37
26	BB	1907	G	N9-C4	5.02	1.42	1.38
26	BB	2458	G	N7-C5	5.02	1.42	1.39
1	AA	239	U	C5-C6	5.02	1.38	1.34
1	AA	356	A	C5-C6	-5.02	1.36	1.41
1	AA	962	C	O3'-P	5.02	1.67	1.61
1	AA	1315	U	C5-C6	5.02	1.38	1.34
26	BB	11	C	C5'-C4'	5.02	1.57	1.51
26	BB	450	G	N3-C4	5.02	1.39	1.35
26	BB	1395	A	O3'-P	5.02	1.67	1.61
26	BB	1612	C	N1-C6	-5.02	1.34	1.37
26	BB	1893	C	O3'-P	5.02	1.67	1.61
26	BB	2485	G	P-O5'	5.02	1.64	1.59
26	BB	2675	A	P-O5'	5.02	1.64	1.59
1	AA	161	A	C3'-O3'	5.02	1.49	1.42
26	BB	764	A	N7-C5	-5.02	1.36	1.39
26	BB	776	G	C4'-O4'	-5.02	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1030	C	O3'-P	5.02	1.67	1.61
26	BB	1158	C	C2-O2	-5.02	1.20	1.24
26	BB	1173	U	N3-C4	-5.02	1.33	1.38
26	BB	1475	G	C2-N2	-5.02	1.29	1.34
26	BB	1597	A	C6-N1	-5.02	1.32	1.35
26	BB	1838	C	P-O5'	5.02	1.64	1.59
26	BB	1894	C	C4'-O4'	-5.02	1.39	1.45
26	BB	2398	U	C4-O4	5.02	1.27	1.23
26	BB	2630	G	O4'-C1'	5.02	1.48	1.41
38	BN	49	GLY	N-CA	-5.02	1.38	1.46
1	AA	969	A	N9-C8	5.02	1.41	1.37
1	AA	1428	A	C2'-O2'	5.02	1.48	1.41
26	BB	95	A	C3'-O3'	5.02	1.49	1.42
26	BB	396	G	N1-C2	5.02	1.41	1.37
1	AA	337	G	C2'-C1'	5.01	1.58	1.53
1	AA	588	G	C6-O6	-5.01	1.19	1.24
1	AA	630	A	C2'-C1'	-5.01	1.47	1.53
1	AA	1139	G	C5-C6	5.01	1.47	1.42
1	AA	1325	C	C2-O2	5.01	1.28	1.24
1	AA	1370	G	N9-C4	5.01	1.42	1.38
26	BB	1470	A	N3-C4	5.01	1.37	1.34
26	BB	2191	A	O3'-P	5.01	1.67	1.61
26	BB	2450	A	P-O5'	-5.01	1.54	1.59
26	BB	2527	C	C2-N3	5.01	1.39	1.35
4	AD	1	C	C5-C6	5.01	1.38	1.34
26	BB	404	A	P-O5'	5.01	1.64	1.59
26	BB	696	G	C3'-C2'	5.01	1.58	1.52
26	BB	998	C	C4'-C3'	5.01	1.58	1.53
26	BB	1626	A	N3-C4	5.01	1.37	1.34
1	AA	863	U	N1-C2	5.01	1.43	1.38
1	AA	881	G	C6-N1	5.01	1.43	1.39
3	AC	51	C	C3'-O3'	-5.01	1.35	1.42
26	BB	435	C	O5'-C5'	-5.01	1.34	1.42
26	BB	967	U	C2-N3	5.01	1.41	1.37
26	BB	986	C	C5'-C4'	5.01	1.57	1.51
26	BB	2412	A	C5'-C4'	5.01	1.57	1.51
26	BB	2573	C	C4'-C3'	5.01	1.58	1.53
26	BB	2686	G	N9-C8	5.01	1.41	1.37
26	BB	2854	G	C6-N1	5.01	1.43	1.39
26	BB	2870	C	C2-O2	5.01	1.28	1.24
1	AA	164	G	N7-C5	-5.01	1.36	1.39
1	AA	266	G	N9-C8	-5.01	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	436	C	C5'-C4'	5.01	1.57	1.51
1	AA	539	A	C8-N7	-5.01	1.28	1.31
1	AA	915	A	C6-N1	-5.01	1.32	1.35
1	AA	1230	C	C3'-C2'	5.01	1.58	1.52
4	AD	4	G	C4'-O4'	-5.01	1.39	1.45
26	BB	144	A	O5'-C5'	-5.01	1.34	1.42
26	BB	415	A	O3'-P	-5.01	1.55	1.61
26	BB	503	A	C5'-C4'	5.01	1.57	1.51
26	BB	1222	U	C3'-C2'	5.01	1.58	1.52
26	BB	1645	G	C4'-C3'	5.01	1.58	1.53
26	BB	2285	C	N1-C6	-5.01	1.34	1.37
1	AA	1353	G	N7-C5	-5.01	1.36	1.39
25	BA	3	C	N1-C2	-5.01	1.35	1.40
26	BB	808	G	P-O5'	5.01	1.64	1.59
26	BB	1098	A	N7-C5	5.01	1.42	1.39
26	BB	2687	U	C2'-O2'	-5.01	1.35	1.41
1	AA	143	A	C8-N7	5.01	1.35	1.31
1	AA	333	U	N1-C2	5.01	1.43	1.38
1	AA	1366	C	C3'-C2'	-5.01	1.47	1.52
26	BB	47	C	C2-N3	5.01	1.39	1.35
26	BB	846	U	C2'-O2'	-5.01	1.35	1.41
26	BB	899	A	N9-C4	5.01	1.40	1.37
26	BB	1033	U	N1-C2	5.01	1.43	1.38
26	BB	2621	G	C4'-O4'	-5.01	1.39	1.45
26	BB	2677	G	C2-N3	5.01	1.36	1.32
1	AA	25	C	C2-N3	-5.00	1.31	1.35
1	AA	128	G	C5-C6	5.00	1.47	1.42
1	AA	452	A	P-O5'	5.00	1.64	1.59
1	AA	547	A	C6-N1	5.00	1.39	1.35
1	AA	687	A	C3'-C2'	5.00	1.58	1.52
1	AA	950	U	N1-C6	5.00	1.42	1.38
4	AD	7	G	C4'-O4'	-5.00	1.39	1.45
26	BB	940	G	C6-N1	-5.00	1.36	1.39
26	BB	1071	G	N1-C2	5.00	1.41	1.37
26	BB	1740	G	N3-C4	5.00	1.39	1.35
26	BB	2826	A	C4'-O4'	-5.00	1.39	1.45
1	AA	424	G	C2-N3	5.00	1.36	1.32
1	AA	517	G	C1'-N9	5.00	1.56	1.48
1	AA	626	G	N9-C4	5.00	1.42	1.38
1	AA	630	A	C5'-C4'	5.00	1.57	1.51
1	AA	789	U	C4'-C3'	5.00	1.58	1.53
1	AA	813	U	C4-O4	-5.00	1.19	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	852	G	C3'-O3'	-5.00	1.35	1.42
1	AA	892	A	O5'-C5'	-5.00	1.34	1.42
1	AA	1041	G	N9-C8	5.00	1.41	1.37
25	BA	42	C	C3'-C2'	-5.00	1.47	1.52
26	BB	211	C	P-O5'	5.00	1.64	1.59
26	BB	305	C	C2-O2	-5.00	1.20	1.24
26	BB	510	C	O4'-C1'	5.00	1.48	1.41
26	BB	1377	G	C6-O6	5.00	1.28	1.24
26	BB	1411	U	C4'-O4'	-5.00	1.39	1.45
26	BB	1557	C	C4-C5	-5.00	1.39	1.43
26	BB	2019	A	C6-N6	5.00	1.38	1.33
26	BB	2417	C	O3'-P	5.00	1.67	1.61
26	BB	2570	G	C6-O6	-5.00	1.19	1.24
26	BB	2885	G	N9-C4	-5.00	1.33	1.38
1	AA	140	U	C5-C6	5.00	1.38	1.34
1	AA	761	G	C5-C6	-5.00	1.37	1.42
1	AA	1322	C	C2-N3	5.00	1.39	1.35
26	BB	63	A	C5-C6	-5.00	1.36	1.41
26	BB	76	C	O3'-P	5.00	1.67	1.61
26	BB	561	G	O3'-P	5.00	1.67	1.61
26	BB	1019	U	C3'-C2'	-5.00	1.47	1.52
26	BB	1189	A	N9-C4	5.00	1.40	1.37
26	BB	1409	U	C5-C6	5.00	1.38	1.34
26	BB	1623	G	P-O5'	5.00	1.64	1.59
26	BB	1802	A	C2-N3	5.00	1.38	1.33
26	BB	2185	U	C2-N3	5.00	1.41	1.37
26	BB	2469	A	N1-C2	-5.00	1.29	1.34
26	BB	2502	G	N7-C5	5.00	1.42	1.39
26	BB	2653	U	C4'-O4'	-5.00	1.39	1.45
26	BB	2796	U	P-O5'	5.00	1.64	1.59
26	BB	2801	G	C3'-C2'	-5.00	1.47	1.52

All (27099) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	AO	55	ARG	NE-CZ-NH2	-27.98	106.31	120.30
26	BB	2063	C	N3-C4-C5	-21.69	113.22	121.90
26	BB	2163	A	O4'-C1'-N9	21.36	125.29	108.20
26	BB	337	C	O4'-C1'-N1	21.12	125.10	108.20
1	AA	190	A	C8-N9-C4	-20.93	97.43	105.80
43	BS	91	ARG	NE-CZ-NH2	-20.73	109.94	120.30
46	BV	76	ARG	NE-CZ-NH1	20.54	130.57	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	70	C	N3-C4-C5	-20.16	113.83	121.90
1	AA	1094	G	C8-N9-C4	-20.05	98.38	106.40
26	BB	2782	G	N9-C4-C5	19.95	113.38	105.40
25	BA	2	G	C2-N3-C4	19.58	121.69	111.90
26	BB	2529	G	C8-N9-C4	-19.56	98.58	106.40
26	BB	1545	A	O4'-C1'-N9	19.43	123.74	108.20
15	AO	109	ARG	NE-CZ-NH1	19.29	129.95	120.30
44	BT	13	ARG	NE-CZ-NH1	19.22	129.91	120.30
1	AA	1094	G	N9-C4-C5	19.09	113.03	105.40
26	BB	312	G	C5-N7-C8	-19.06	94.77	104.30
38	BN	123	ARG	NE-CZ-NH2	-18.88	110.86	120.30
1	AA	319	G	N9-C4-C5	18.66	112.86	105.40
1	AA	1071	C	C6-N1-C2	-18.46	112.92	120.30
26	BB	254	G	N3-C4-C5	-18.45	119.38	128.60
26	BB	946	C	O4'-C1'-N1	18.32	122.86	108.20
26	BB	2107	G	C2-N3-C4	18.23	121.01	111.90
26	BB	730	A	C8-N9-C4	-18.21	98.51	105.80
26	BB	1677	A	N1-C2-N3	-18.09	120.25	129.30
26	BB	70	G	C8-N9-C4	-18.09	99.16	106.40
1	AA	10	A	C8-N9-C4	-18.07	98.57	105.80
26	BB	2409	G	C8-N9-C4	-18.06	99.18	106.40
26	BB	2178	C	N3-C4-C5	-17.99	114.70	121.90
1	AA	281	G	C4-C5-N7	-17.92	103.63	110.80
26	BB	2869	G	C8-N9-C4	-17.92	99.23	106.40
26	BB	1753	G	N1-C6-O6	-17.90	109.16	119.90
26	BB	533	G	C4-C5-N7	-17.85	103.66	110.80
26	BB	2353	G	C8-N9-C4	-17.81	99.28	106.40
26	BB	2743	U	O4'-C1'-N1	17.75	122.40	108.20
26	BB	2747	G	C8-N9-C4	-17.70	99.32	106.40
26	BB	2847	U	O4'-C1'-N1	17.68	122.34	108.20
26	BB	141	G	O4'-C1'-N9	17.65	122.32	108.20
29	BE	59	ARG	NE-CZ-NH2	17.59	129.10	120.30
19	AS	14	ARG	NE-CZ-NH2	-17.59	111.51	120.30
26	BB	834	G	C8-N9-C4	-17.57	99.37	106.40
1	AA	765	G	O4'-C1'-N9	17.56	122.25	108.20
26	BB	2115	G	C8-N9-C4	-17.55	99.38	106.40
46	BV	12	ARG	NE-CZ-NH1	17.50	129.05	120.30
58	B7	24	ARG	NE-CZ-NH2	17.39	129.00	120.30
26	BB	2065	C	N1-C2-O2	17.36	129.32	118.90
26	BB	314	C	N3-C4-C5	-17.29	114.98	121.90
26	BB	71	A	O4'-C1'-N9	17.28	122.02	108.20
1	AA	200	G	C6-C5-N7	-17.20	120.08	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1178	G	C8-N9-C4	-17.20	99.52	106.40
26	BB	2178	C	C2-N3-C4	17.19	128.50	119.90
26	BB	1223	G	C2-N3-C4	17.18	120.49	111.90
1	AA	647	C	C6-N1-C2	-17.16	113.44	120.30
4	AD	40	C	O4'-C1'-N1	17.14	121.92	108.20
14	AN	92	ARG	NE-CZ-NH1	17.14	128.87	120.30
26	BB	41	C	O4'-C1'-N1	17.14	121.92	108.20
1	AA	319	G	C8-N9-C4	-17.09	99.56	106.40
1	AA	478	A	O4'-C1'-N9	17.08	121.86	108.20
26	BB	977	G	C8-N9-C4	-17.03	99.59	106.40
1	AA	79	G	C8-N9-C4	-17.01	99.60	106.40
1	AA	54	C	C2-N3-C4	16.99	128.39	119.90
26	BB	1619	G	C8-N9-C4	-16.98	99.61	106.40
26	BB	2048	G	N9-C4-C5	16.98	112.19	105.40
1	AA	829	G	C8-N9-C4	-16.96	99.61	106.40
26	BB	1783	A	C8-N9-C4	-16.96	99.02	105.80
26	BB	1498	C	N1-C2-O2	16.94	129.06	118.90
1	AA	51	A	C8-N9-C4	-16.87	99.05	105.80
26	BB	713	G	C8-N9-C4	-16.87	99.65	106.40
26	BB	1170	C	O4'-C1'-N1	16.84	121.67	108.20
26	BB	319	G	C8-N9-C4	-16.83	99.67	106.40
26	BB	1091	G	C2-N3-C4	16.79	120.30	111.90
55	B4	5	ARG	NE-CZ-NH2	-16.77	111.92	120.30
26	BB	2448	A	C8-N9-C4	-16.76	99.09	105.80
26	BB	1511	G	C5-C6-N1	16.76	119.88	111.50
1	AA	923	A	C8-N9-C4	16.73	112.49	105.80
25	BA	15	A	N1-C2-N3	-16.71	120.95	129.30
26	BB	2592	G	O4'-C1'-N9	16.69	121.55	108.20
26	BB	1875	G	C8-N9-C4	-16.57	99.77	106.40
53	B2	63	ARG	NE-CZ-NH1	16.55	128.58	120.30
26	BB	603	A	C8-N9-C4	-16.50	99.20	105.80
26	BB	989	G	N9-C4-C5	16.50	112.00	105.40
4	AD	4	G	N9-C4-C5	16.44	111.98	105.40
1	AA	931	C	N3-C4-C5	-16.41	115.33	121.90
26	BB	2106	U	C5-C6-N1	-16.38	114.51	122.70
26	BB	323	C	O4'-C1'-N1	16.33	121.27	108.20
26	BB	483	A	N1-C2-N3	-16.33	121.13	129.30
1	AA	46	G	N7-C8-N9	16.32	121.26	113.10
26	BB	1159	U	O4'-C1'-N1	16.31	121.25	108.20
36	BL	116	ARG	NE-CZ-NH2	16.27	128.44	120.30
26	BB	2045	C	O4'-C1'-N1	16.24	121.19	108.20
26	BB	186	G	C2-N3-C4	16.21	120.01	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	AP	28	ARG	NE-CZ-NH2	-16.19	112.20	120.30
26	BB	55	G	C4-C5-N7	-16.19	104.32	110.80
26	BB	1681	G	C4-C5-N7	-16.19	104.32	110.80
26	BB	2822	G	O4'-C1'-N9	16.17	121.13	108.20
1	AA	473	U	O4'-C1'-N1	16.15	121.12	108.20
26	BB	532	A	N1-C2-N3	-16.11	121.24	129.30
3	AC	41	A	C8-N9-C4	-16.11	99.36	105.80
26	BB	2671	G	C8-N9-C4	-16.10	99.96	106.40
26	BB	481	G	O4'-C1'-N9	16.06	121.05	108.20
26	BB	952	G	N9-C4-C5	16.05	111.82	105.40
16	AP	86	ARG	NE-CZ-NH1	16.01	128.31	120.30
1	AA	614	C	O4'-C1'-N1	16.00	121.00	108.20
26	BB	2652	C	C5-C4-N4	-15.99	109.01	120.20
33	BI	116	ARG	NE-CZ-NH1	15.98	128.29	120.30
26	BB	1125	G	C8-N9-C4	-15.91	100.03	106.40
16	AP	86	ARG	NE-CZ-NH2	-15.91	112.35	120.30
26	BB	881	G	N3-C4-C5	-15.91	120.65	128.60
26	BB	1824	G	O4'-C1'-N9	15.90	120.92	108.20
6	AF	71	ARG	NE-CZ-NH2	-15.88	112.36	120.30
1	AA	794	A	C8-N9-C4	-15.88	99.45	105.80
26	BB	904	G	N9-C4-C5	15.87	111.75	105.40
26	BB	2751	G	C8-N9-C4	-15.87	100.05	106.40
26	BB	2782	G	C8-N9-C4	-15.87	100.05	106.40
26	BB	2129	C	O4'-C1'-N1	15.84	120.87	108.20
44	BT	13	ARG	NE-CZ-NH2	-15.82	112.39	120.30
26	BB	2174	C	O4'-C1'-N1	15.81	120.85	108.20
26	BB	487	C	O4'-C1'-N1	15.80	120.84	108.20
1	AA	1511	G	C8-N9-C4	-15.79	100.08	106.40
26	BB	1182	G	C2-N3-C4	15.77	119.79	111.90
26	BB	2465	C	C4-C5-C6	-15.76	109.52	117.40
26	BB	2072	C	N1-C2-O2	15.74	128.34	118.90
25	BA	2	G	N3-C4-C5	-15.74	120.73	128.60
1	AA	1182	G	C8-N9-C4	-15.73	100.11	106.40
26	BB	1168	G	C2-N3-C4	15.73	119.76	111.90
1	AA	193	C	N3-C4-C5	-15.72	115.61	121.90
1	AA	721	G	C4-C5-N7	-15.70	104.52	110.80
7	AG	12	ARG	NE-CZ-NH1	15.66	128.13	120.30
1	AA	1019	A	C8-N9-C4	-15.66	99.54	105.80
1	AA	499	A	O4'-C1'-N9	15.66	120.72	108.20
26	BB	1436	G	N3-C4-C5	-15.66	120.77	128.60
26	BB	2107	G	N3-C4-C5	-15.64	120.78	128.60
26	BB	2275	C	C6-N1-C2	-15.62	114.05	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	836	G	N9-C4-C5	15.62	111.65	105.40
1	AA	1051	C	C6-N1-C2	-15.61	114.06	120.30
26	BB	944	C	C6-N1-C2	-15.60	114.06	120.30
26	BB	2390	U	O4'-C1'-N1	15.59	120.67	108.20
1	AA	946	A	C8-N9-C4	-15.58	99.57	105.80
26	BB	644	A	C8-N9-C4	-15.56	99.58	105.80
26	BB	651	G	C2-N3-C4	15.55	119.68	111.90
16	AP	89	ARG	NE-CZ-NH1	15.55	128.07	120.30
1	AA	510	A	C5-N7-C8	15.54	111.67	103.90
1	AA	443	C	N3-C2-O2	-15.54	111.03	121.90
26	BB	2014	A	N9-C4-C5	15.52	112.01	105.80
26	BB	1505	A	N1-C2-N3	-15.51	121.54	129.30
26	BB	2360	G	N3-C4-C5	-15.51	120.84	128.60
26	BB	2870	C	N3-C4-C5	-15.51	115.70	121.90
42	BR	38	ARG	NE-CZ-NH1	-15.50	112.55	120.30
26	BB	2092	U	C5-C6-N1	-15.50	114.95	122.70
51	B0	7	ARG	NE-CZ-NH2	15.49	128.05	120.30
26	BB	81	G	C4-C5-N7	-15.48	104.61	110.80
26	BB	2609	U	C5-C4-O4	-15.48	116.61	125.90
1	AA	540	G	N3-C4-C5	-15.48	120.86	128.60
1	AA	493	A	O4'-C1'-N9	15.47	120.58	108.20
26	BB	1870	C	N1-C2-O2	15.45	128.17	118.90
26	BB	1758	U	O4'-C1'-N1	15.44	120.55	108.20
26	BB	105	C	O4'-C1'-N1	15.43	120.54	108.20
26	BB	1677	A	C2-N3-C4	15.43	118.31	110.60
26	BB	97	C	N3-C4-C5	-15.42	115.73	121.90
26	BB	1906	G	O4'-C1'-N9	15.42	120.53	108.20
26	BB	2804	U	C5-C6-N1	-15.41	114.99	122.70
1	AA	195	A	N9-C4-C5	15.41	111.96	105.80
26	BB	2269	G	N3-C4-C5	-15.40	120.90	128.60
26	BB	2487	G	C5-C6-O6	-15.38	119.37	128.60
26	BB	304	U	O4'-C1'-N1	15.37	120.50	108.20
26	BB	581	C	O4'-C1'-N1	15.34	120.47	108.20
26	BB	575	A	O4'-C1'-N9	15.34	120.47	108.20
26	BB	94	A	N9-C4-C5	15.33	111.93	105.80
25	BA	45	A	O4'-C1'-N9	15.33	120.46	108.20
21	AU	42	ARG	NE-CZ-NH1	15.30	127.95	120.30
1	AA	923	A	N9-C4-C5	-15.30	99.68	105.80
26	BB	342	A	N1-C2-N3	-15.30	121.65	129.30
26	BB	620	G	O4'-C1'-N9	15.29	120.43	108.20
26	BB	532	A	C2-N3-C4	15.29	118.25	110.60
26	BB	1573	G	C2-N3-C4	15.24	119.52	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	614	A	N1-C6-N6	15.24	127.74	118.60
26	BB	2115	G	N9-C4-C5	15.24	111.50	105.40
26	BB	437	U	N3-C2-O2	-15.23	111.54	122.20
26	BB	1801	A	O4'-C1'-N9	15.23	120.38	108.20
26	BB	1529	G	C8-N9-C4	-15.22	100.31	106.40
26	BB	645	C	N1-C2-O2	15.21	128.03	118.90
26	BB	2841	C	O4'-C1'-N1	15.21	120.37	108.20
1	AA	796	C	C6-N1-C2	-15.20	114.22	120.30
26	BB	205	G	C8-N9-C4	-15.20	100.32	106.40
26	BB	2652	C	N3-C4-N4	15.20	128.64	118.00
26	BB	909	A	O4'-C1'-N9	15.19	120.35	108.20
1	AA	190	A	N9-C4-C5	15.19	111.88	105.80
1	AA	207	C	O4'-C1'-N1	15.18	120.35	108.20
26	BB	584	C	O4'-C1'-N1	15.18	120.34	108.20
1	AA	748	G	N3-C4-N9	15.17	135.10	126.00
26	BB	733	G	N9-C4-C5	15.17	111.47	105.40
26	BB	1317	G	N7-C8-N9	15.15	120.68	113.10
1	AA	1360	A	C2-N3-C4	15.15	118.18	110.60
1	AA	1287	A	O4'-C1'-N9	15.15	120.32	108.20
26	BB	977	G	N7-C8-N9	15.13	120.66	113.10
26	BB	33	C	O4'-C1'-N1	15.12	120.30	108.20
1	AA	500	G	C6-C5-N7	-15.12	121.33	130.40
1	AA	100	G	N1-C6-O6	-15.11	110.83	119.90
26	BB	2597	G	C8-N9-C4	-15.11	100.35	106.40
43	BS	63	ARG	NE-CZ-NH1	15.10	127.85	120.30
26	BB	2806	C	C2-N3-C4	15.10	127.45	119.90
30	BF	162	ARG	NE-CZ-NH1	-15.09	112.75	120.30
1	AA	1151	A	C2-N3-C4	-15.08	103.06	110.60
26	BB	473	G	C8-N9-C4	-15.05	100.38	106.40
4	AD	1	C	C6-N1-C2	-15.04	114.28	120.30
26	BB	1619	G	N9-C4-C5	15.04	111.42	105.40
26	BB	952	G	C8-N9-C4	-15.02	100.39	106.40
26	BB	2187	U	O4'-C1'-N1	15.02	120.21	108.20
26	BB	2164	C	O4'-C1'-N1	15.02	120.21	108.20
1	AA	339	C	O4'-C1'-N1	15.01	120.21	108.20
9	AI	112	ARG	NE-CZ-NH2	-15.01	112.79	120.30
26	BB	1741	C	O4'-C1'-N1	14.98	120.19	108.20
26	BB	573	U	O4'-C1'-N1	14.98	120.18	108.20
1	AA	1482	G	N3-C4-C5	-14.97	121.12	128.60
14	AN	92	ARG	NE-CZ-NH2	-14.97	112.81	120.30
26	BB	2081	U	O4'-C1'-N1	14.97	120.17	108.20
20	AT	64	ARG	NE-CZ-NH2	-14.97	112.82	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	15	A	C2-N3-C4	14.94	118.07	110.60
1	AA	1133	G	C2-N3-C4	14.93	119.37	111.90
26	BB	1510	G	C2-N3-C4	14.93	119.36	111.90
26	BB	1613	G	N3-C4-C5	-14.93	121.14	128.60
26	BB	1170	C	N3-C4-C5	-14.91	115.94	121.90
15	AO	49	ARG	NE-CZ-NH2	-14.90	112.85	120.30
26	BB	678	C	O4'-C1'-N1	14.90	120.12	108.20
41	BQ	15	ARG	NE-CZ-NH1	14.89	127.75	120.30
1	AA	1153	G	N3-C4-C5	-14.87	121.16	128.60
26	BB	2601	C	C6-N1-C2	-14.86	114.35	120.30
26	BB	577	G	N3-C4-C5	-14.86	121.17	128.60
26	BB	1146	C	O4'-C1'-N1	14.85	120.08	108.20
26	BB	1836	C	C2-N3-C4	14.85	127.33	119.90
26	BB	2199	A	O4'-C1'-N9	14.85	120.08	108.20
2	AB	41	C	C6-N1-C2	14.85	126.24	120.30
26	BB	312	G	C4-C5-N7	14.84	116.74	110.80
1	AA	809	G	O4'-C1'-N9	14.83	120.07	108.20
26	BB	7	G	C2-N3-C4	14.82	119.31	111.90
26	BB	823	C	C5-C6-N1	14.82	128.41	121.00
26	BB	1348	C	O4'-C1'-N1	14.81	120.05	108.20
26	BB	1666	G	C5-C6-N1	14.81	118.90	111.50
26	BB	2437	G	C2-N3-C4	14.80	119.30	111.90
1	AA	720	C	N3-C4-C5	-14.79	115.98	121.90
1	AA	737	C	N1-C2-O2	14.79	127.77	118.90
26	BB	1287	A	N9-C4-C5	14.78	111.71	105.80
1	AA	293	G	C8-N9-C4	-14.78	100.49	106.40
26	BB	1232	G	C8-N9-C4	-14.78	100.49	106.40
1	AA	285	C	O4'-C1'-N1	14.78	120.02	108.20
1	AA	1325	C	O4'-C1'-N1	14.78	120.02	108.20
1	AA	3	A	O4'-C1'-N9	14.76	120.01	108.20
16	AP	89	ARG	NE-CZ-NH2	-14.76	112.92	120.30
26	BB	1276	A	C4-C5-C6	-14.76	109.62	117.00
26	BB	2791	G	C5-C6-N1	14.76	118.88	111.50
26	BB	930	G	N9-C4-C5	14.74	111.30	105.40
26	BB	2845	U	O4'-C1'-N1	14.74	119.99	108.20
1	AA	57	G	C2-N3-C4	14.73	119.27	111.90
28	BD	79	ARG	NE-CZ-NH2	-14.71	112.94	120.30
1	AA	204	G	N7-C8-N9	14.71	120.45	113.10
1	AA	293	G	N9-C4-C5	14.71	111.28	105.40
1	AA	1248	A	O4'-C1'-N9	14.70	119.96	108.20
26	BB	1231	U	C3'-C2'-C1'	14.70	113.26	101.50
1	AA	69	G	N9-C4-C5	14.69	111.28	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	85	G	C8-N9-C4	-14.69	100.52	106.40
26	BB	2241	A	C8-N9-C4	-14.69	99.92	105.80
26	BB	2126	A	C8-N9-C4	-14.67	99.93	105.80
26	BB	1988	G	C4-C5-N7	-14.65	104.94	110.80
1	AA	26	A	C4-C5-N7	-14.65	103.38	110.70
26	BB	712	G	O4'-C1'-N9	14.65	119.92	108.20
1	AA	46	G	C8-N9-C4	-14.64	100.54	106.40
26	BB	2472	G	C6-N1-C2	-14.63	116.32	125.10
56	B5	34	ARG	NE-CZ-NH1	14.62	127.61	120.30
3	AC	22	G	C8-N9-C4	-14.62	100.55	106.40
26	BB	764	A	N9-C4-C5	14.62	111.65	105.80
1	AA	263	A	C8-N9-C4	-14.61	99.95	105.80
26	BB	94	A	C4-C5-N7	-14.61	103.40	110.70
1	AA	373	A	N9-C4-C5	-14.61	99.96	105.80
26	BB	904	G	C8-N9-C4	-14.60	100.56	106.40
1	AA	148	G	N3-C4-C5	-14.60	121.30	128.60
26	BB	1252	G	N3-C4-C5	-14.59	121.30	128.60
1	AA	620	C	C6-N1-C2	-14.59	114.46	120.30
26	BB	1235	G	C8-N9-C4	-14.58	100.57	106.40
1	AA	1019	A	N7-C8-N9	14.58	121.09	113.80
1	AA	540	G	C2-N3-C4	14.56	119.18	111.90
1	AA	564	C	N3-C4-C5	-14.56	116.08	121.90
1	AA	539	A	C8-N9-C4	-14.55	99.98	105.80
26	BB	2884	U	O4'-C1'-N1	14.55	119.84	108.20
26	BB	467	G	C4-C5-N7	-14.54	104.98	110.80
26	BB	1418	G	N3-C4-N9	14.54	134.72	126.00
26	BB	2409	G	C2-N3-C4	14.54	119.17	111.90
1	AA	1366	C	N3-C2-O2	-14.54	111.72	121.90
26	BB	312	G	N7-C8-N9	14.52	120.36	113.10
1	AA	1430	A	C2-N3-C4	14.51	117.85	110.60
26	BB	218	A	O4'-C1'-N9	14.51	119.80	108.20
26	BB	1188	U	O4'-C1'-N1	14.50	119.80	108.20
26	BB	2494	G	O4'-C1'-N9	14.50	119.80	108.20
26	BB	1846	G	C2-N3-C4	14.49	119.15	111.90
26	BB	1482	G	C4-C5-N7	-14.48	105.01	110.80
1	AA	207	C	N3-C4-C5	14.48	127.69	121.90
15	AO	49	ARG	NE-CZ-NH1	14.47	127.54	120.30
26	BB	2112	G	N7-C8-N9	14.47	120.34	113.10
1	AA	102	G	N3-C4-C5	-14.47	121.36	128.60
1	AA	690	G	O4'-C1'-N9	14.45	119.76	108.20
26	BB	1459	G	C5-C6-O6	-14.44	119.94	128.60
1	AA	1166	G	C8-N9-C4	-14.44	100.62	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	AP	28	ARG	NE-CZ-NH1	14.43	127.52	120.30
1	AA	1448	C	C2-N3-C4	14.43	127.11	119.90
26	BB	266	G	N7-C8-N9	14.43	120.31	113.10
1	AA	948	C	N3-C4-C5	-14.43	116.13	121.90
25	BA	67	G	C5-C6-O6	-14.43	119.94	128.60
1	AA	1279	G	C8-N9-C4	-14.42	100.63	106.40
56	B5	12	ARG	NE-CZ-NH1	-14.42	113.09	120.30
26	BB	2640	G	C4-C5-N7	-14.41	105.04	110.80
26	BB	1759	A	C2-N3-C4	14.41	117.80	110.60
1	AA	846	G	C8-N9-C4	-14.40	100.64	106.40
26	BB	1371	G	N9-C4-C5	14.40	111.16	105.40
26	BB	940	G	C5-C6-N1	14.40	118.70	111.50
26	BB	1964	G	C5-C6-O6	-14.39	119.96	128.60
26	BB	2375	G	C6-C5-N7	-14.38	121.77	130.40
26	BB	1310	G	C8-N9-C4	-14.37	100.65	106.40
11	AK	12	ARG	NE-CZ-NH1	14.36	127.48	120.30
16	AP	92	ARG	NE-CZ-NH2	-14.36	113.12	120.30
26	BB	1459	G	C2-N3-C4	14.36	119.08	111.90
26	BB	577	G	C8-N9-C4	-14.35	100.66	106.40
26	BB	847	U	C5-C6-N1	-14.35	115.53	122.70
26	BB	2582	G	N9-C4-C5	14.34	111.14	105.40
26	BB	1540	G	C6-N1-C2	-14.34	116.50	125.10
1	AA	577	G	N1-C6-O6	-14.34	111.30	119.90
1	AA	700	G	N3-C4-C5	-14.34	121.43	128.60
3	AC	22	G	N7-C8-N9	14.34	120.27	113.10
1	AA	1266	G	N3-C4-N9	14.33	134.59	126.00
26	BB	1050	A	N7-C8-N9	14.32	120.96	113.80
26	BB	1108	U	O4'-C1'-N1	14.32	119.65	108.20
1	AA	212	G	C8-N9-C4	-14.31	100.68	106.40
1	AA	1355	G	N9-C4-C5	14.31	111.12	105.40
26	BB	176	A	C8-N9-C4	-14.31	100.08	105.80
26	BB	1721	G	C2-N3-C4	14.30	119.05	111.90
26	BB	1780	A	O4'-C1'-N9	14.29	119.63	108.20
1	AA	443	C	N1-C2-O2	14.27	127.46	118.90
9	AI	91	ARG	NE-CZ-NH2	-14.27	113.16	120.30
3	AC	15	G	O4'-C1'-N9	14.27	119.61	108.20
2	AB	70	C	C2-N3-C4	14.26	127.03	119.90
26	BB	1604	C	N3-C4-C5	-14.24	116.20	121.90
26	BB	90	U	C2-N3-C4	-14.24	118.46	127.00
26	BB	837	C	N3-C2-O2	-14.24	111.93	121.90
26	BB	958	U	C5-C4-O4	-14.24	117.36	125.90
26	BB	2409	G	N9-C4-C5	14.24	111.09	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	BQ	81	ARG	NE-CZ-NH1	14.23	127.42	120.30
4	AD	65	G	C8-N9-C4	-14.23	100.71	106.40
1	AA	326	G	C2-N3-C4	14.21	119.01	111.90
6	AF	39	ARG	NE-CZ-NH2	-14.21	113.20	120.30
26	BB	866	A	N7-C8-N9	14.20	120.90	113.80
26	BB	2844	G	C8-N9-C4	-14.20	100.72	106.40
26	BB	2385	C	O4'-C1'-N1	14.20	119.56	108.20
26	BB	122	G	C2-N3-C4	14.19	119.00	111.90
26	BB	612	G	C5-C6-O6	-14.19	120.08	128.60
26	BB	1285	A	N9-C4-C5	14.18	111.47	105.80
26	BB	1408	G	N9-C4-C5	14.18	111.07	105.40
26	BB	1510	G	N3-C4-C5	-14.17	121.51	128.60
26	BB	2798	U	N3-C2-O2	-14.17	112.28	122.20
1	AA	89	U	N1-C2-N3	14.17	123.40	114.90
1	AA	227	G	C4-C5-N7	-14.16	105.13	110.80
26	BB	2048	G	C4-C5-N7	-14.16	105.14	110.80
13	AM	68	ARG	NE-CZ-NH2	14.15	127.38	120.30
26	BB	2307	G	C4-C5-N7	-14.15	105.14	110.80
1	AA	464	U	O4'-C1'-N1	14.15	119.52	108.20
9	AI	78	PHE	CB-CG-CD2	-14.14	110.90	120.80
1	AA	526	C	O4'-C1'-N1	14.13	119.50	108.20
26	BB	2640	G	N9-C4-C5	14.13	111.05	105.40
25	BA	115	A	N7-C8-N9	14.12	120.86	113.80
1	AA	173	U	N1-C2-N3	14.11	123.37	114.90
26	BB	1507	C	C4-C5-C6	-14.10	110.35	117.40
1	AA	739	C	C4-C5-C6	-14.10	110.35	117.40
26	BB	2118	U	O4'-C1'-N1	14.10	119.48	108.20
26	BB	1861	G	N7-C8-N9	14.09	120.15	113.10
26	BB	2702	G	C5-N7-C8	-14.08	97.26	104.30
25	BA	71	C	C6-N1-C2	14.08	125.93	120.30
26	BB	2117	A	C5-C6-N1	14.06	124.73	117.70
26	BB	1568	G	C8-N9-C4	-14.06	100.78	106.40
26	BB	1819	A	N1-C6-N6	14.06	127.03	118.60
4	AD	17	C	O4'-C1'-N1	14.05	119.44	108.20
26	BB	620	G	C4-C5-N7	-14.04	105.18	110.80
26	BB	2063	C	C2-N3-C4	14.04	126.92	119.90
26	BB	2860	A	N1-C2-N3	14.04	136.32	129.30
1	AA	582	C	C6-N1-C2	-14.03	114.69	120.30
26	BB	1429	G	N9-C4-C5	14.02	111.01	105.40
25	BA	101	A	N1-C2-N3	-14.02	122.29	129.30
26	BB	873	C	C6-N1-C2	-14.02	114.69	120.30
1	AA	615	G	C2-N3-C4	14.01	118.91	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	540	C	O4'-C1'-N1	14.01	119.40	108.20
1	AA	929	G	O4'-C1'-N9	14.00	119.40	108.20
26	BB	2529	G	C2-N3-C4	14.00	118.90	111.90
1	AA	1173	U	O4'-C1'-N1	13.99	119.39	108.20
26	BB	600	G	C5-C6-O6	-13.99	120.20	128.60
26	BB	817	C	O4'-C1'-N1	13.99	119.39	108.20
1	AA	567	G	C8-N9-C4	-13.99	100.80	106.40
26	BB	2120	G	N3-C4-C5	-13.97	121.61	128.60
1	AA	262	A	N1-C2-N3	-13.97	122.31	129.30
26	BB	989	G	C8-N9-C4	-13.97	100.81	106.40
26	BB	1459	G	C5-C6-N1	13.97	118.48	111.50
26	BB	2487	G	N1-C6-O6	13.97	128.28	119.90
26	BB	2808	G	O4'-C1'-N9	13.96	119.37	108.20
1	AA	173	U	N3-C2-O2	-13.95	112.43	122.20
26	BB	1050	A	C8-N9-C4	-13.95	100.22	105.80
26	BB	2870	C	C2-N3-C4	13.96	126.88	119.90
26	BB	577	G	C2-N3-C4	13.95	118.87	111.90
38	BN	59	ARG	NE-CZ-NH2	13.94	127.27	120.30
1	AA	159	G	N3-C4-C5	-13.94	121.63	128.60
1	AA	26	A	C2-N3-C4	13.94	117.57	110.60
25	BA	96	G	N7-C8-N9	13.94	120.07	113.10
26	BB	1285	A	C8-N9-C4	-13.92	100.23	105.80
26	BB	1888	G	C2-N3-C4	13.91	118.86	111.90
26	BB	122	G	N3-C4-C5	-13.91	121.65	128.60
1	AA	565	U	C5-C6-N1	-13.91	115.75	122.70
26	BB	2888	C	N3-C4-C5	-13.91	116.34	121.90
1	AA	153	C	N3-C4-C5	13.91	127.46	121.90
4	AD	11	A	O4'-C1'-N9	13.90	119.32	108.20
26	BB	1847	A	C8-N9-C4	-13.90	100.24	105.80
26	BB	2362	C	N3-C4-C5	-13.90	116.34	121.90
26	BB	2837	A	C8-N9-C4	-13.90	100.24	105.80
26	BB	1357	C	N1-C2-O2	13.90	127.24	118.90
26	BB	974	G	C2-N3-C4	13.89	118.85	111.90
26	BB	1998	A	C4-C5-N7	-13.89	103.75	110.70
26	BB	2332	C	N3-C4-C5	-13.89	116.34	121.90
26	BB	1002	G	N3-C4-C5	-13.88	121.66	128.60
26	BB	1998	A	N9-C4-C5	13.88	111.35	105.80
26	BB	70	G	N9-C4-C5	13.88	110.95	105.40
1	AA	296	U	O4'-C1'-N1	13.87	119.30	108.20
26	BB	1568	G	N7-C8-N9	13.87	120.03	113.10
2	AB	29	G	C8-N9-C4	-13.86	100.86	106.40
26	BB	31	C	C6-N1-C2	-13.86	114.76	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	368	A	O4'-C1'-N9	13.86	119.29	108.20
5	AE	73	ARG	NE-CZ-NH1	13.86	127.23	120.30
1	AA	737	C	N3-C2-O2	-13.85	112.20	121.90
1	AA	1264	U	C6-N1-C2	-13.85	112.69	121.00
1	AA	1032	G	N3-C4-C5	-13.85	121.68	128.60
4	AD	19	G	N3-C2-N2	-13.85	110.21	119.90
26	BB	899	A	O4'-C1'-N9	13.84	119.27	108.20
26	BB	1168	G	N1-C6-O6	-13.84	111.59	119.90
26	BB	1837	C	N1-C2-O2	13.84	127.21	118.90
1	AA	354	G	C6-N1-C2	-13.84	116.80	125.10
4	AD	71	G	C4-C5-N7	13.84	116.33	110.80
26	BB	1434	A	O4'-C1'-N9	13.83	119.27	108.20
26	BB	1065	U	C6-N1-C2	-13.81	112.71	121.00
26	BB	1973	G	C4-C5-N7	13.81	116.32	110.80
6	AF	126	ARG	NE-CZ-NH2	13.80	127.20	120.30
1	AA	69	G	C4-C5-N7	-13.79	105.28	110.80
1	AA	791	G	C4-C5-N7	-13.79	105.28	110.80
26	BB	2715	C	N3-C4-C5	-13.79	116.38	121.90
1	AA	302	G	O4'-C1'-N9	13.78	119.23	108.20
1	AA	132	C	N3-C4-C5	-13.78	116.39	121.90
26	BB	2391	G	C4-C5-N7	-13.77	105.29	110.80
26	BB	2747	G	N9-C4-C5	13.77	110.91	105.40
26	BB	1929	G	O4'-C1'-N9	13.77	119.22	108.20
26	BB	2407	A	N1-C6-N6	13.77	126.86	118.60
26	BB	2610	C	O4'-C1'-N1	13.77	119.21	108.20
26	BB	134	G	C4-C5-N7	-13.76	105.30	110.80
26	BB	733	G	C8-N9-C4	-13.76	100.89	106.40
26	BB	2360	G	C8-N9-C4	-13.76	100.90	106.40
2	AB	47	U	C5-C6-N1	-13.76	115.82	122.70
26	BB	1348	C	N1-C2-O2	13.75	127.15	118.90
1	AA	268	U	C5-C4-O4	-13.75	117.65	125.90
26	BB	327	G	N9-C4-C5	13.74	110.90	105.40
26	BB	1017	G	C4-C5-N7	13.74	116.30	110.80
8	AH	32	PHE	CB-CG-CD2	-13.74	111.18	120.80
26	BB	616	A	O4'-C1'-N9	13.73	119.18	108.20
1	AA	1400	C	O4'-C1'-N1	13.72	119.18	108.20
26	BB	2702	G	C4-C5-N7	13.72	116.29	110.80
1	AA	1504	G	N3-C4-C5	-13.71	121.74	128.60
10	AJ	69	ARG	NE-CZ-NH2	-13.71	113.44	120.30
26	BB	2610	C	N1-C2-O2	13.70	127.12	118.90
26	BB	1655	A	C4-C5-C6	-13.69	110.16	117.00
26	BB	713	G	N9-C4-C5	13.68	110.87	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	560	C	C5-C6-N1	13.68	127.84	121.00
1	AA	1430	A	N1-C2-N3	-13.68	122.46	129.30
26	BB	969	G	C4-C5-N7	-13.68	105.33	110.80
1	AA	981	U	O4'-C1'-N1	13.67	119.14	108.20
26	BB	1895	C	O4'-C1'-N1	13.66	119.13	108.20
1	AA	1435	G	C4-C5-N7	13.66	116.26	110.80
1	AA	54	C	N3-C4-C5	-13.65	116.44	121.90
26	BB	813	U	O4'-C1'-N1	13.65	119.12	108.20
1	AA	1000	A	O4'-C1'-N9	13.65	119.12	108.20
26	BB	126	A	O4'-C1'-N9	13.64	119.11	108.20
26	BB	1875	G	C2-N3-C4	13.64	118.72	111.90
26	BB	499	U	C5-C4-O4	-13.64	117.72	125.90
26	BB	1062	G	C8-N9-C4	-13.64	100.94	106.40
26	BB	930	G	C8-N9-C4	-13.64	100.94	106.40
43	BS	69	ARG	NE-CZ-NH1	-13.63	113.48	120.30
1	AA	1341	U	O4'-C1'-N1	13.62	119.10	108.20
26	BB	885	C	O4'-C1'-N1	13.62	119.10	108.20
51	B0	23	ARG	NE-CZ-NH1	13.61	127.11	120.30
1	AA	930	C	C5-C4-N4	13.60	129.72	120.20
1	AA	620	C	O4'-C1'-N1	13.60	119.08	108.20
26	BB	1896	G	C8-N9-C4	-13.60	100.96	106.40
26	BB	2851	A	C5-N7-C8	-13.60	97.10	103.90
1	AA	547	A	N9-C4-C5	13.60	111.24	105.80
26	BB	817	C	N1-C2-O2	13.60	127.06	118.90
26	BB	2853	C	O4'-C1'-N1	13.60	119.08	108.20
1	AA	926	G	N3-C4-C5	-13.59	121.81	128.60
1	AA	542	G	O4'-C1'-N9	13.59	119.07	108.20
26	BB	1687	G	C2-N3-C4	13.59	118.69	111.90
26	BB	1992	G	C8-N9-C4	-13.58	100.97	106.40
26	BB	1008	A	O4'-C1'-N9	13.58	119.06	108.20
1	AA	1046	A	N9-C4-C5	13.58	111.23	105.80
26	BB	1437	C	O4'-C1'-N1	13.57	119.06	108.20
26	BB	266	G	C5-N7-C8	-13.57	97.52	104.30
26	BB	589	U	O4'-C1'-N1	13.57	119.06	108.20
26	BB	2027	G	C8-N9-C4	-13.57	100.97	106.40
1	AA	1116	U	C3'-C2'-C1'	13.56	112.35	101.50
26	BB	2597	G	N7-C8-N9	13.56	119.88	113.10
1	AA	510	A	N7-C8-N9	-13.56	107.02	113.80
1	AA	124	C	N3-C4-C5	-13.55	116.48	121.90
26	BB	939	G	O4'-C1'-N9	13.55	119.04	108.20
1	AA	381	C	N3-C4-N4	13.54	127.48	118.00
1	AA	5	U	O4'-C1'-N1	13.54	119.03	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	40	G	C5-N7-C8	-13.53	97.53	104.30
26	BB	1176	U	O4'-C1'-N1	13.53	119.02	108.20
25	BA	79	G	N3-C4-C5	-13.52	121.84	128.60
26	BB	598	U	O4'-C1'-N1	13.50	119.00	108.20
26	BB	2421	G	C8-N9-C4	-13.50	101.00	106.40
12	AL	10	ARG	NE-CZ-NH2	-13.49	113.55	120.30
26	BB	751	A	N7-C8-N9	13.49	120.54	113.80
10	AJ	43	TYR	CB-CG-CD2	-13.48	112.91	121.00
1	AA	1076	U	O4'-C1'-N1	13.47	118.98	108.20
26	BB	1203	U	C5-C6-N1	-13.47	115.96	122.70
1	AA	1192	C	C2-N3-C4	13.47	126.64	119.90
26	BB	1098	A	N9-C4-C5	-13.46	100.41	105.80
26	BB	1811	G	N3-C4-C5	-13.46	121.87	128.60
26	BB	2234	G	C6-C5-N7	-13.46	122.32	130.40
26	BB	786	C	O4'-C1'-N1	13.46	118.97	108.20
26	BB	1008	A	C8-N9-C4	-13.46	100.42	105.80
1	AA	1192	C	C6-N1-C2	-13.46	114.92	120.30
3	AC	57	C	C4-C5-C6	13.45	124.13	117.40
1	AA	1187	G	N9-C4-C5	13.45	110.78	105.40
26	BB	2349	G	N3-C2-N2	13.44	129.31	119.90
26	BB	1652	A	O4'-C1'-N9	13.44	118.95	108.20
26	BB	1168	G	N3-C4-C5	-13.43	121.88	128.60
1	AA	334	C	C6-N1-C2	13.43	125.67	120.30
26	BB	1998	A	N1-C6-N6	13.43	126.66	118.60
1	AA	746	A	N1-C2-N3	-13.42	122.59	129.30
1	AA	352	C	N1-C2-O2	13.42	126.95	118.90
26	BB	1720	U	N1-C2-O2	-13.41	113.41	122.80
26	BB	2675	A	N7-C8-N9	-13.41	107.09	113.80
28	BD	62	ARG	NE-CZ-NH2	-13.41	113.59	120.30
1	AA	547	A	C2-N3-C4	13.41	117.30	110.60
26	BB	1687	G	C5-C6-N1	13.40	118.20	111.50
26	BB	2838	G	O4'-C1'-N9	13.40	118.92	108.20
1	AA	110	C	O4'-C1'-N1	13.40	118.92	108.20
26	BB	1581	G	N7-C8-N9	13.40	119.80	113.10
26	BB	1358	G	C2-N3-C4	13.39	118.59	111.90
1	AA	423	G	C8-N9-C4	-13.38	101.05	106.40
1	AA	48	C	N1-C2-O2	13.38	126.93	118.90
26	BB	2101	A	C8-N9-C4	-13.37	100.45	105.80
1	AA	581	G	C8-N9-C4	-13.37	101.05	106.40
10	AJ	4	ARG	NE-CZ-NH2	-13.36	113.62	120.30
26	BB	1098	A	C8-N9-C4	13.36	111.14	105.80
26	BB	2377	A	O4'-C1'-N9	13.36	118.89	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2835	A	C3'-C2'-C1'	13.36	112.19	101.50
1	AA	204	G	C2-N3-C4	13.36	118.58	111.90
42	BR	112	ARG	NE-CZ-NH1	13.36	126.98	120.30
11	AK	87	ARG	NE-CZ-NH2	-13.36	113.62	120.30
26	BB	1500	G	C8-N9-C4	-13.35	101.06	106.40
26	BB	1732	C	N3-C4-C5	-13.35	116.56	121.90
1	AA	851	G	N9-C4-C5	13.35	110.74	105.40
1	AA	1365	G	C8-N9-C4	-13.33	101.07	106.40
26	BB	1535	A	O4'-C1'-N9	13.32	118.86	108.20
4	AD	23	G	C8-N9-C4	-13.32	101.07	106.40
26	BB	1250	G	N7-C8-N9	13.32	119.76	113.10
26	BB	1645	G	O4'-C1'-N9	13.32	118.85	108.20
1	AA	1470	U	C2-N3-C4	-13.31	119.01	127.00
1	AA	185	U	C5'-C4'-O4'	13.31	125.08	109.10
1	AA	1413	A	N1-C6-N6	13.31	126.59	118.60
26	BB	1074	G	N9-C4-C5	13.31	110.72	105.40
40	BP	64	ARG	NE-CZ-NH1	13.31	126.96	120.30
26	BB	1219	U	O4'-C1'-N1	13.31	118.84	108.20
26	BB	2036	C	N3-C4-C5	-13.30	116.58	121.90
1	AA	494	G	N7-C8-N9	13.30	119.75	113.10
1	AA	1382	C	O4'-C1'-N1	13.29	118.83	108.20
26	BB	2426	A	N1-C6-N6	13.29	126.57	118.60
26	BB	2465	C	N3-C4-C5	13.29	127.22	121.90
1	AA	510	A	C5-C6-N1	13.29	124.34	117.70
1	AA	233	C	N3-C2-O2	-13.28	112.60	121.90
6	AF	41	TYR	CB-CG-CD1	-13.28	113.03	121.00
26	BB	1317	G	C5-N7-C8	-13.27	97.66	104.30
1	AA	147	G	C4-C5-N7	-13.27	105.49	110.80
1	AA	241	G	N3-C4-C5	-13.27	121.97	128.60
1	AA	500	G	C8-N9-C4	-13.27	101.09	106.40
1	AA	69	G	C2-N3-C4	13.27	118.53	111.90
26	BB	1899	A	C8-N9-C4	-13.26	100.50	105.80
1	AA	782	A	N9-C4-C5	13.26	111.10	105.80
1	AA	189	A	C4-C5-N7	13.25	117.32	110.70
26	BB	1403	A	C8-N9-C4	13.25	111.10	105.80
26	BB	2801	G	N9-C4-C5	13.25	110.70	105.40
26	BB	2220	U	O4'-C1'-N1	13.24	118.80	108.20
26	BB	1375	U	O4'-C1'-N1	13.24	118.79	108.20
26	BB	1774	C	C2-N3-C4	13.23	126.52	119.90
26	BB	1287	A	C8-N9-C4	-13.23	100.51	105.80
29	BE	128	ARG	NE-CZ-NH2	13.23	126.91	120.30
25	BA	25	U	C5-C6-N1	-13.22	116.09	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2427	C	O4'-C1'-N1	13.22	118.78	108.20
34	BJ	41	ARG	NE-CZ-NH2	-13.22	113.69	120.30
1	AA	233	C	N3-C4-C5	-13.22	116.61	121.90
1	AA	1112	C	N3-C4-C5	13.21	127.18	121.90
26	BB	2468	A	N1-C6-N6	-13.21	110.67	118.60
26	BB	2888	C	C2-N3-C4	13.21	126.50	119.90
1	AA	1102	A	C8-N9-C4	13.20	111.08	105.80
26	BB	1617	C	N3-C4-C5	-13.20	116.62	121.90
26	BB	1133	A	N1-C6-N6	13.20	126.52	118.60
26	BB	1084	A	C8-N9-C4	-13.19	100.52	105.80
26	BB	2846	G	O4'-C1'-N9	13.18	118.75	108.20
26	BB	1673	G	C8-N9-C4	-13.17	101.13	106.40
26	BB	485	C	O4'-C1'-N1	13.16	118.73	108.20
26	BB	81	G	N9-C4-C5	13.16	110.67	105.40
26	BB	2645	G	C3'-C2'-C1'	13.16	112.03	101.50
26	BB	220	G	N3-C4-C5	-13.16	122.02	128.60
26	BB	663	G	O4'-C1'-N9	13.16	118.73	108.20
26	BB	1891	G	C8-N9-C4	-13.16	101.14	106.40
26	BB	1906	G	C5-C6-N1	13.16	118.08	111.50
26	BB	2360	G	N9-C4-C5	13.16	110.66	105.40
26	BB	467	G	N9-C4-C5	13.15	110.66	105.40
26	BB	2554	U	O4'-C1'-N1	13.15	118.72	108.20
1	AA	1021	A	N9-C4-C5	13.14	111.06	105.80
26	BB	1369	G	C4-C5-N7	13.14	116.06	110.80
26	BB	1481	U	O4'-C1'-N1	13.14	118.72	108.20
1	AA	241	G	C4-C5-N7	-13.13	105.55	110.80
26	BB	1539	U	O4'-C1'-N1	13.13	118.71	108.20
26	BB	2188	U	O4'-C1'-N1	13.13	118.71	108.20
37	BM	98	ARG	NE-CZ-NH1	13.13	126.87	120.30
26	BB	2702	G	C6-C5-N7	-13.13	122.52	130.40
1	AA	1490	U	C5-C6-N1	-13.12	116.14	122.70
1	AA	421	U	N3-C2-O2	-13.12	113.02	122.20
26	BB	859	G	N9-C4-C5	13.11	110.64	105.40
26	BB	2694	G	C8-N9-C4	-13.11	101.16	106.40
26	BB	1550	C	C6-N1-C2	13.11	125.54	120.30
2	AB	12	U	C5-C4-O4	-13.10	118.04	125.90
26	BB	975	A	N1-C6-N6	13.10	126.46	118.60
26	BB	1907	G	N9-C4-C5	13.09	110.64	105.40
26	BB	621	A	C8-N9-C4	-13.09	100.56	105.80
25	BA	94	A	N1-C6-N6	13.09	126.45	118.60
26	BB	1246	A	O4'-C1'-N9	13.09	118.67	108.20
26	BB	2732	G	C5-C6-N1	13.09	118.04	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2437	G	N1-C2-N3	-13.08	116.05	123.90
26	BB	2716	C	O4'-C1'-N1	13.08	118.67	108.20
26	BB	2732	G	C6-N1-C2	-13.08	117.25	125.10
26	BB	1650	A	N9-C4-C5	13.08	111.03	105.80
26	BB	1369	G	C6-C5-N7	-13.07	122.56	130.40
26	BB	2178	C	N3-C4-N4	13.07	127.15	118.00
26	BB	495	G	N3-C4-C5	-13.06	122.07	128.60
26	BB	859	G	C4-C5-N7	-13.05	105.58	110.80
25	BA	111	U	O4'-C1'-N1	13.05	118.64	108.20
26	BB	2388	A	C5-C6-N1	13.05	124.22	117.70
1	AA	860	A	C5-C6-N1	13.04	124.22	117.70
1	AA	1349	A	C5-C6-N1	13.04	124.22	117.70
26	BB	1235	G	N3-C4-C5	-13.04	122.08	128.60
26	BB	387	U	C5-C6-N1	-13.04	116.18	122.70
4	AD	32	G	O4'-C1'-N9	13.04	118.63	108.20
1	AA	26	A	C5-N7-C8	13.03	110.42	103.90
26	BB	989	G	C4-C5-N7	-13.02	105.59	110.80
26	BB	2578	G	N9-C4-C5	-13.02	100.19	105.40
26	BB	469	G	C2-N3-C4	13.02	118.41	111.90
26	BB	2822	G	C3'-C2'-C1'	13.02	111.91	101.50
1	AA	1180	A	C8-N9-C4	-13.02	100.59	105.80
26	BB	1429	G	C8-N9-C4	-13.02	101.19	106.40
3	AC	23	C	O4'-C1'-N1	13.01	118.61	108.20
25	BA	90	C	C2-N3-C4	13.01	126.41	119.90
26	BB	2298	A	C8-N9-C4	-13.01	100.60	105.80
1	AA	316	C	O4'-C1'-N1	13.01	118.61	108.20
8	AH	53	ARG	NE-CZ-NH1	13.01	126.80	120.30
1	AA	228	A	N1-C2-N3	-13.00	122.80	129.30
1	AA	109	A	O4'-C1'-N9	12.99	118.60	108.20
1	AA	807	A	C4-C5-C6	-12.99	110.50	117.00
26	BB	578	G	O4'-C1'-N9	12.99	118.59	108.20
26	BB	1632	A	N1-C2-N3	12.98	135.79	129.30
26	BB	232	G	C8-N9-C4	-12.98	101.21	106.40
1	AA	802	A	O4'-C1'-N9	12.98	118.58	108.20
1	AA	1181	G	C4-C5-N7	-12.97	105.61	110.80
26	BB	908	C	O4'-C1'-N1	12.97	118.58	108.20
26	BB	1132	U	O4'-C1'-N1	12.96	118.57	108.20
26	BB	361	G	N3-C4-N9	12.95	133.77	126.00
26	BB	1935	G	C8-N9-C4	-12.95	101.22	106.40
1	AA	726	C	O4'-C1'-N1	12.95	118.56	108.20
26	BB	1533	C	N3-C4-C5	12.94	127.08	121.90
26	BB	2402	U	C5-C4-O4	-12.94	118.14	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1361	G	O4'-C1'-N9	12.94	118.55	108.20
1	AA	780	A	C8-N9-C4	-12.93	100.63	105.80
1	AA	995	C	O4'-C1'-N1	12.93	118.55	108.20
26	BB	2692	G	C5-N7-C8	-12.93	97.83	104.30
1	AA	999	C	O4'-C1'-N1	12.93	118.54	108.20
26	BB	1568	G	N9-C4-C5	12.93	110.57	105.40
26	BB	2373	G	C8-N9-C4	-12.92	101.23	106.40
1	AA	703	G	N3-C4-C5	-12.91	122.14	128.60
26	BB	1857	G	N3-C4-C5	-12.91	122.14	128.60
26	BB	2043	C	O4'-C1'-N1	12.91	118.53	108.20
1	AA	281	G	N9-C4-C5	12.91	110.56	105.40
26	BB	2063	C	N1-C2-O2	12.91	126.65	118.90
1	AA	82	G	N9-C4-C5	12.91	110.56	105.40
1	AA	1045	C	O4'-C1'-N1	12.91	118.52	108.20
26	BB	1656	C	C6-N1-C2	-12.90	115.14	120.30
26	BB	1891	G	N7-C8-N9	12.90	119.55	113.10
26	BB	2084	C	C2-N3-C4	-12.90	113.45	119.90
1	AA	1224	U	C4-C5-C6	12.90	127.44	119.70
26	BB	320	A	C8-N9-C4	-12.90	100.64	105.80
26	BB	473	G	N7-C8-N9	12.89	119.55	113.10
26	BB	2600	A	N1-C6-N6	-12.89	110.86	118.60
4	AD	65	G	N9-C4-C5	12.89	110.56	105.40
26	BB	602	A	N7-C8-N9	12.88	120.24	113.80
26	BB	2049	G	C4-C5-N7	12.88	115.95	110.80
1	AA	233	C	C6-N1-C2	-12.88	115.15	120.30
1	AA	912	C	O4'-C1'-N1	12.88	118.50	108.20
1	AA	1247	U	O4'-C1'-N1	12.87	118.50	108.20
26	BB	1087	G	N9-C4-C5	12.88	110.55	105.40
26	BB	1180	U	N3-C4-O4	12.88	128.41	119.40
26	BB	1575	C	O4'-C1'-N1	12.86	118.49	108.20
1	AA	318	G	N1-C6-O6	12.86	127.61	119.90
1	AA	1060	U	O4'-C1'-N1	12.86	118.48	108.20
26	BB	649	G	C2-N3-C4	12.86	118.33	111.90
26	BB	2255	G	C8-N9-C4	-12.85	101.26	106.40
26	BB	473	G	N9-C4-C5	12.85	110.54	105.40
26	BB	2035	G	C4-C5-N7	-12.85	105.66	110.80
26	BB	1223	G	N3-C4-C5	-12.84	122.18	128.60
26	BB	1789	A	C2-N3-C4	-12.84	104.18	110.60
26	BB	207	A	C2-N3-C4	12.84	117.02	110.60
26	BB	493	G	C8-N9-C4	-12.84	101.26	106.40
26	BB	2733	A	C5-N7-C8	12.84	110.32	103.90
26	BB	367	G	N7-C8-N9	12.84	119.52	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1131	G	C2-N3-C4	12.84	118.32	111.90
26	BB	1613	G	C2-N3-C4	12.84	118.32	111.90
1	AA	1533	C	O4'-C1'-N1	12.82	118.46	108.20
1	AA	1201	A	C1'-O4'-C4'	-12.81	99.65	109.90
26	BB	233	A	N7-C8-N9	-12.81	107.39	113.80
26	BB	997	G	O4'-C1'-N9	12.81	118.45	108.20
26	BB	438	G	N3-C2-N2	-12.81	110.93	119.90
26	BB	659	G	N3-C4-N9	12.81	133.68	126.00
26	BB	2588	G	N3-C4-C5	-12.80	122.20	128.60
26	BB	2192	U	O4'-C1'-N1	12.80	118.44	108.20
1	AA	195	A	C8-N9-C4	-12.79	100.68	105.80
25	BA	75	G	C8-N9-C4	-12.79	101.28	106.40
26	BB	1286	A	O4'-C1'-N9	12.79	118.43	108.20
1	AA	323	U	C5-C6-N1	-12.79	116.31	122.70
1	AA	859	G	N1-C6-O6	-12.79	112.23	119.90
1	AA	1096	C	O4'-C1'-N1	12.79	118.43	108.20
3	AC	26	U	C5-C6-N1	-12.78	116.31	122.70
26	BB	489	G	C5-C6-N1	12.78	117.89	111.50
1	AA	1344	C	N1-C2-O2	12.78	126.57	118.90
26	BB	2416	C	N1-C2-O2	12.78	126.57	118.90
26	BB	128	C	N3-C4-C5	12.78	127.01	121.90
26	BB	969	G	N9-C4-C5	12.78	110.51	105.40
26	BB	2811	G	C1'-O4'-C4'	12.78	120.12	109.90
1	AA	1178	G	N9-C4-C5	12.77	110.51	105.40
26	BB	1981	A	C8-N9-C4	-12.77	100.69	105.80
26	BB	2441	U	O4'-C1'-N1	12.77	118.42	108.20
1	AA	851	G	C8-N9-C4	-12.77	101.29	106.40
4	AD	7	G	N3-C2-N2	12.77	128.84	119.90
1	AA	319	G	N3-C4-C5	-12.77	122.22	128.60
1	AA	380	G	O4'-C1'-N9	12.77	118.41	108.20
1	AA	1485	U	N3-C4-O4	12.77	128.34	119.40
26	BB	1339	G	C4-C5-N7	-12.76	105.69	110.80
1	AA	1459	G	N9-C1'-C2'	-12.76	97.41	114.00
26	BB	1528	A	O4'-C1'-N9	12.76	118.41	108.20
1	AA	1513	A	N1-C6-N6	-12.76	110.95	118.60
26	BB	1235	G	N9-C4-C5	12.76	110.50	105.40
25	BA	9	G	C5-N7-C8	-12.75	97.92	104.30
26	BB	1008	A	N9-C4-C5	12.75	110.90	105.80
26	BB	1956	U	O4'-C1'-N1	12.75	118.40	108.20
26	BB	2855	C	C2-N3-C4	12.74	126.27	119.90
26	BB	1321	A	O4'-C1'-N9	12.74	118.39	108.20
26	BB	2399	G	N3-C4-C5	-12.74	122.23	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	940	G	N1-C6-O6	-12.73	112.26	119.90
26	BB	393	C	C4-C5-C6	-12.73	111.03	117.40
26	BB	1640	A	N9-C4-C5	12.73	110.89	105.80
26	BB	2372	U	C5-C4-O4	-12.73	118.26	125.90
26	BB	2572	A	O4'-C1'-N9	12.73	118.38	108.20
26	BB	2345	G	C8-N9-C4	-12.72	101.31	106.40
4	AD	74	A	N1-C6-N6	-12.71	110.97	118.60
2	AB	28	C	O4'-C1'-N1	12.71	118.37	108.20
3	AC	22	G	N9-C4-C5	12.71	110.48	105.40
26	BB	2698	U	O4'-C1'-N1	12.71	118.37	108.20
1	AA	388	G	N3-C4-C5	-12.70	122.25	128.60
26	BB	1635	A	C8-N9-C4	-12.70	100.72	105.80
26	BB	415	A	O4'-C1'-N9	12.70	118.36	108.20
1	AA	460	A	N1-C6-N6	-12.70	110.98	118.60
30	BF	85	PHE	CB-CG-CD2	-12.70	111.91	120.80
26	BB	2582	G	C8-N9-C4	-12.70	101.32	106.40
41	BQ	16	ARG	NE-CZ-NH2	12.69	126.64	120.30
1	AA	1031	C	N3-C4-C5	-12.69	116.83	121.90
41	BQ	9	ARG	NE-CZ-NH1	12.68	126.64	120.30
1	AA	500	G	N3-C2-N2	12.67	128.77	119.90
26	BB	731	C	C5-C4-N4	-12.67	111.33	120.20
1	AA	991	U	O4'-C1'-N1	12.67	118.33	108.20
1	AA	494	G	C4-C5-N7	12.66	115.87	110.80
26	BB	2738	A	C8-N9-C4	-12.66	100.73	105.80
1	AA	1153	G	N1-C6-O6	-12.66	112.30	119.90
1	AA	988	G	N7-C8-N9	12.66	119.43	113.10
26	BB	2015	A	N1-C2-N3	-12.66	122.97	129.30
26	BB	1765	U	N3-C4-C5	-12.66	107.01	114.60
26	BB	2388	A	C4-C5-C6	-12.66	110.67	117.00
1	AA	1534	A	N1-C6-N6	12.65	126.19	118.60
2	AB	69	C	O4'-C1'-N1	12.65	118.32	108.20
26	BB	2234	G	C4-C5-N7	12.65	115.86	110.80
26	BB	1293	C	N3-C4-C5	-12.64	116.84	121.90
26	BB	1817	G	N3-C4-N9	12.64	133.59	126.00
26	BB	2042	A	C8-N9-C4	-12.64	100.74	105.80
26	BB	1470	A	O4'-C1'-N9	-12.64	98.09	108.20
26	BB	254	G	C2-N3-C4	12.64	118.22	111.90
26	BB	1337	G	C8-N9-C4	-12.64	101.34	106.40
26	BB	2812	G	N3-C4-C5	-12.64	122.28	128.60
26	BB	2884	U	N3-C2-O2	-12.63	113.36	122.20
31	BG	114	ARG	NE-CZ-NH2	12.63	126.61	120.30
1	AA	728	A	C5-C6-N1	12.63	124.01	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	B3	51	ARG	NE-CZ-NH1	-12.62	113.99	120.30
1	AA	941	G	C5-C6-O6	-12.62	121.03	128.60
26	BB	2693	G	C2-N3-C4	-12.62	105.59	111.90
1	AA	988	G	C8-N9-C4	-12.62	101.35	106.40
26	BB	1790	C	C2-N3-C4	12.62	126.21	119.90
26	BB	246	C	C5'-C4'-O4'	12.62	124.24	109.10
1	AA	715	A	C8-N9-C4	-12.61	100.75	105.80
26	BB	2116	G	C8-N9-C4	-12.61	101.36	106.40
25	BA	102	G	N9-C4-C5	12.61	110.44	105.40
26	BB	967	U	O4'-C1'-N1	12.61	118.29	108.20
1	AA	829	G	N3-C4-C5	-12.61	122.30	128.60
1	AA	344	A	C6-C5-N7	-12.61	123.48	132.30
1	AA	1517	G	N9-C4-C5	12.61	110.44	105.40
26	BB	2281	A	C8-N9-C4	-12.61	100.76	105.80
1	AA	311	C	N3-C4-C5	-12.60	116.86	121.90
16	AP	69	ARG	NE-CZ-NH2	-12.60	114.00	120.30
26	BB	380	G	O4'-C1'-N9	12.60	118.28	108.20
26	BB	70	G	N1-C2-N3	12.60	131.46	123.90
26	BB	1101	U	C5-C4-O4	12.60	133.46	125.90
26	BB	1137	G	C6-N1-C2	-12.60	117.54	125.10
1	AA	1488	G	O4'-C1'-N9	12.59	118.28	108.20
26	BB	818	G	C8-N9-C4	-12.59	101.36	106.40
26	BB	986	C	O4'-C1'-N1	12.59	118.28	108.20
26	BB	1149	G	N3-C4-C5	-12.59	122.30	128.60
26	BB	1010	A	C8-N9-C4	-12.59	100.76	105.80
1	AA	618	C	N1-C2-O2	12.59	126.45	118.90
1	AA	805	C	C6-N1-C2	12.59	125.33	120.30
26	BB	348	A	C5-N7-C8	-12.58	97.61	103.90
26	BB	1026	G	C2-N3-C4	12.57	118.19	111.90
1	AA	1409	C	N1-C2-O2	12.57	126.44	118.90
26	BB	2509	G	C8-N9-C4	-12.57	101.37	106.40
26	BB	2852	G	N3-C4-C5	-12.57	122.32	128.60
26	BB	1570	A	C5-C6-N6	-12.57	113.65	123.70
26	BB	356	G	O4'-C1'-N9	12.56	118.25	108.20
1	AA	1400	C	N1-C2-O2	12.56	126.44	118.90
25	BA	117	G	C3'-C2'-C1'	12.56	111.55	101.50
26	BB	2194	U	N1-C2-N3	12.56	122.43	114.90
1	AA	243	A	N1-C2-N3	-12.55	123.02	129.30
29	BE	169	ARG	NE-CZ-NH1	-12.55	114.02	120.30
26	BB	733	G	C4-C5-N7	-12.55	105.78	110.80
26	BB	1726	C	N3-C4-N4	12.55	126.78	118.00
1	AA	459	A	C4-C5-C6	-12.55	110.73	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	605	G	O4'-C1'-N9	12.54	118.24	108.20
26	BB	1811	G	C2-N3-C4	12.54	118.17	111.90
26	BB	1106	G	C5-C6-N1	12.54	117.77	111.50
1	AA	580	C	O4'-C1'-N1	12.54	118.23	108.20
1	AA	1491	G	O4'-C1'-N9	12.54	118.23	108.20
1	AA	57	G	N3-C4-C5	-12.53	122.33	128.60
1	AA	345	C	N3-C4-C5	-12.53	116.89	121.90
26	BB	510	C	C2-N3-C4	12.53	126.17	119.90
26	BB	696	G	C4-C5-N7	12.53	115.81	110.80
26	BB	100	U	C4-C5-C6	12.52	127.21	119.70
1	AA	965	U	O4'-C1'-N1	12.52	118.22	108.20
18	AR	16	ARG	NE-CZ-NH1	12.52	126.56	120.30
26	BB	164	C	O4'-C1'-N1	12.52	118.21	108.20
26	BB	562	U	O4'-C1'-N1	12.51	118.21	108.20
26	BB	2692	G	C4-C5-N7	12.51	115.81	110.80
3	AC	31	U	O4'-C1'-N1	12.51	118.20	108.20
26	BB	1612	C	O4'-C1'-N1	12.51	118.20	108.20
26	BB	2345	G	N3-C4-C5	-12.51	122.35	128.60
1	AA	1231	G	C8-N9-C4	-12.50	101.40	106.40
26	BB	2511	U	C5-C4-O4	-12.50	118.40	125.90
26	BB	187	G	C4-C5-N7	-12.49	105.80	110.80
4	AD	5	G	N9-C4-C5	12.49	110.39	105.40
26	BB	1505	A	C2-N3-C4	12.49	116.84	110.60
26	BB	1975	G	C4'-C3'-C2'	-12.49	90.11	102.60
1	AA	1094	G	C4-C5-N7	-12.48	105.81	110.80
26	BB	1777	U	N3-C2-O2	-12.48	113.46	122.20
10	AJ	91	ARG	NE-CZ-NH2	12.48	126.54	120.30
26	BB	1547	C	O4'-C1'-N1	12.48	118.18	108.20
1	AA	602	A	O4'-C1'-N9	12.47	118.18	108.20
26	BB	167	A	N1-C2-N3	-12.47	123.06	129.30
26	BB	766	U	N1-C2-O2	-12.47	114.07	122.80
25	BA	9	G	C4-C5-N7	12.47	115.79	110.80
26	BB	1182	G	N1-C6-O6	-12.46	112.42	119.90
26	BB	2484	G	N7-C8-N9	12.46	119.33	113.10
26	BB	1047	G	C8-N9-C4	-12.46	101.42	106.40
1	AA	71	A	N1-C6-N6	-12.45	111.13	118.60
1	AA	421	U	C2-N3-C4	-12.45	119.53	127.00
1	AA	494	G	C5-N7-C8	-12.45	98.08	104.30
26	BB	1694	C	O4'-C1'-N1	12.45	118.16	108.20
26	BB	1739	A	C8-N9-C4	-12.45	100.82	105.80
26	BB	619	G	C8-N9-C4	-12.44	101.42	106.40
3	AC	55	A	C8-N9-C4	-12.44	100.82	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2399	G	N9-C4-C5	12.44	110.38	105.40
26	BB	2040	G	O4'-C1'-N9	12.44	118.15	108.20
26	BB	1870	C	N3-C2-O2	-12.44	113.20	121.90
26	BB	2048	G	C8-N9-C4	-12.44	101.43	106.40
1	AA	577	G	C5-C6-O6	12.43	136.06	128.60
1	AA	1362	A	O4'-C1'-N9	12.43	118.14	108.20
26	BB	1032	A	N1-C6-N6	12.42	126.05	118.60
26	BB	1475	G	C8-N9-C4	-12.42	101.43	106.40
26	BB	2307	G	C5-N7-C8	12.42	110.51	104.30
1	AA	579	A	N1-C6-N6	12.41	126.05	118.60
26	BB	547	A	C2-N3-C4	12.41	116.81	110.60
26	BB	602	A	C8-N9-C4	-12.41	100.83	105.80
26	BB	1875	G	N7-C8-N9	12.41	119.31	113.10
26	BB	1631	G	N9-C4-C5	12.41	110.36	105.40
1	AA	570	G	C6-C5-N7	-12.39	122.96	130.40
1	AA	1338	G	N3-C4-C5	-12.39	122.40	128.60
5	AE	107	ARG	NE-CZ-NH2	-12.39	114.10	120.30
29	BE	179	ARG	NE-CZ-NH1	12.39	126.50	120.30
26	BB	220	G	C4-C5-N7	-12.39	105.84	110.80
26	BB	318	C	O4'-C1'-N1	12.38	118.10	108.20
1	AA	568	G	C8-N9-C4	-12.37	101.45	106.40
1	AA	1210	C	O4'-C1'-N1	12.37	118.10	108.20
26	BB	15	G	O4'-C1'-N9	12.37	118.09	108.20
10	AJ	9	ARG	NE-CZ-NH1	-12.36	114.12	120.30
26	BB	883	G	C5-C6-N1	12.36	117.68	111.50
26	BB	1455	G	C4-C5-N7	12.36	115.74	110.80
1	AA	131	A	N9-C4-C5	12.36	110.74	105.80
26	BB	612	G	C8-N9-C4	-12.35	101.46	106.40
26	BB	2367	G	C2-N3-C4	12.35	118.08	111.90
25	BA	115	A	C5-N7-C8	-12.35	97.72	103.90
26	BB	1649	G	C8-N9-C4	-12.35	101.46	106.40
26	BB	2890	G	N3-C4-C5	-12.35	122.42	128.60
1	AA	768	A	C8-N9-C4	-12.35	100.86	105.80
26	BB	1749	A	C8-N9-C4	-12.35	100.86	105.80
1	AA	171	A	C5-N7-C8	-12.34	97.73	103.90
1	AA	293	G	C4-C5-N7	-12.34	105.86	110.80
26	BB	640	C	O4'-C1'-N1	12.34	118.07	108.20
1	AA	808	C	C6-N1-C2	-12.34	115.36	120.30
25	BA	35	C	C4'-C3'-C2'	-12.34	90.26	102.60
1	AA	1503	A	N9-C4-C5	12.33	110.73	105.80
26	BB	1776	G	N3-C4-C5	-12.33	122.44	128.60
1	AA	860	A	C6-N1-C2	-12.32	111.21	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4	U	C4-C5-C6	12.32	127.09	119.70
3	AC	16	A	N9-C4-C5	12.32	110.73	105.80
1	AA	735	C	O4'-C1'-N1	12.32	118.06	108.20
26	BB	2707	U	O4'-C1'-N1	12.31	118.05	108.20
25	BA	48	U	C5-C4-O4	-12.30	118.52	125.90
26	BB	707	G	C4-C5-N7	-12.30	105.88	110.80
1	AA	1128	C	O4'-C1'-N1	12.30	118.04	108.20
1	AA	1166	G	N9-C4-C5	12.30	110.32	105.40
1	AA	339	C	C2-N3-C4	12.29	126.05	119.90
15	AO	8	ARG	NE-CZ-NH1	12.30	126.45	120.30
26	BB	85	G	N9-C4-C5	12.29	110.32	105.40
1	AA	373	A	C8-N9-C4	12.29	110.72	105.80
13	AM	48	ARG	NE-CZ-NH1	12.29	126.44	120.30
1	AA	1187	G	C8-N9-C4	-12.29	101.48	106.40
26	BB	2076	U	O4'-C1'-N1	12.29	118.03	108.20
26	BB	1753	G	C5-C6-O6	12.28	135.97	128.60
1	AA	159	G	C4-C5-N7	-12.28	105.89	110.80
26	BB	1087	G	C4-C5-N7	-12.28	105.89	110.80
1	AA	614	C	C4-C5-C6	-12.28	111.26	117.40
24	AX	17	ARG	NE-CZ-NH2	-12.28	114.16	120.30
25	BA	1	U	O4'-C1'-N1	12.28	118.02	108.20
26	BB	327	G	C4-C5-C6	12.28	126.17	118.80
26	BB	1182	G	C5-C6-N1	12.28	117.64	111.50
1	AA	560	A	C4-C5-C6	-12.27	110.86	117.00
26	BB	1918	A	C5-C6-N1	12.27	123.84	117.70
26	BB	787	C	C6-N1-C2	-12.27	115.39	120.30
1	AA	1087	G	N7-C8-N9	12.26	119.23	113.10
26	BB	1631	G	C8-N9-C4	-12.26	101.50	106.40
50	BZ	73	ARG	NE-CZ-NH2	12.26	126.43	120.30
1	AA	159	G	N9-C4-C5	12.26	110.30	105.40
26	BB	2275	C	O4'-C1'-N1	12.26	118.01	108.20
26	BB	1333	G	C8-N9-C4	-12.25	101.50	106.40
26	BB	1756	G	C5-C6-N1	12.25	117.63	111.50
4	AD	30	G	N3-C4-C5	-12.25	122.47	128.60
26	BB	757	G	C8-N9-C4	-12.25	101.50	106.40
1	AA	1181	G	N3-C4-C5	-12.25	122.48	128.60
26	BB	2000	C	C6-N1-C2	-12.25	115.40	120.30
1	AA	59	A	O4'-C1'-N9	12.24	117.99	108.20
26	BB	2101	A	N9-C4-C5	12.24	110.69	105.80
1	AA	796	C	C5-C6-N1	12.23	127.12	121.00
26	BB	185	G	C4-C5-N7	-12.23	105.91	110.80
1	AA	10	A	N9-C4-C5	12.23	110.69	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	203	G	C8-N9-C4	-12.23	101.51	106.40
1	AA	1026	G	C2-N3-C4	12.23	118.02	111.90
26	BB	1344	U	O4'-C1'-N1	12.23	117.98	108.20
1	AA	782	A	C8-N9-C4	-12.22	100.91	105.80
25	BA	54	G	C2-N3-C4	12.22	118.01	111.90
26	BB	593	U	C6-N1-C2	-12.22	113.67	121.00
26	BB	370	G	C5-C6-O6	-12.22	121.27	128.60
26	BB	1131	G	N3-C4-C5	-12.22	122.49	128.60
1	AA	758	C	O4'-C1'-N1	12.21	117.97	108.20
25	BA	25	U	C4-C5-C6	12.21	127.03	119.70
26	BB	140	C	C6-N1-C2	-12.21	115.42	120.30
26	BB	2232	C	N1-C2-O2	12.21	126.22	118.90
26	BB	1433	A	C4-C5-N7	12.21	116.80	110.70
1	AA	642	A	N9-C4-C5	12.20	110.68	105.80
26	BB	276	U	O4'-C1'-N1	12.20	117.96	108.20
26	BB	2771	C	N3-C4-C5	12.20	126.78	121.90
1	AA	57	G	C8-N9-C4	-12.19	101.52	106.40
3	AC	46	C	N3-C4-C5	-12.19	117.02	121.90
1	AA	951	G	N1-C6-O6	-12.19	112.59	119.90
1	AA	1336	C	C6-N1-C2	-12.19	115.42	120.30
16	AP	78	ARG	NE-CZ-NH1	12.18	126.39	120.30
26	BB	2674	G	C2-N3-C4	12.18	117.99	111.90
26	BB	2544	G	C8-N9-C4	-12.18	101.53	106.40
1	AA	849	G	N3-C4-C5	-12.18	122.51	128.60
26	BB	1079	C	N1-C2-O2	12.18	126.21	118.90
26	BB	1505	A	O4'-C1'-N9	12.18	117.94	108.20
26	BB	632	A	O4'-C1'-N9	12.18	117.94	108.20
6	AF	87	ARG	NE-CZ-NH2	-12.18	114.21	120.30
26	BB	1601	G	N1-C6-O6	-12.18	112.59	119.90
26	BB	1047	G	N7-C8-N9	12.17	119.19	113.10
1	AA	658	C	N3-C4-C5	-12.17	117.03	121.90
26	BB	1964	G	C8-N9-C4	-12.17	101.53	106.40
26	BB	2510	C	N3-C2-O2	-12.17	113.38	121.90
26	BB	961	C	N1-C2-O2	12.17	126.20	118.90
26	BB	614	A	C5-C6-N6	-12.16	113.97	123.70
26	BB	1317	G	C4-C5-N7	12.16	115.66	110.80
1	AA	1147	C	C6-N1-C2	-12.15	115.44	120.30
1	AA	1347	G	N7-C8-N9	12.15	119.18	113.10
1	AA	661	G	O4'-C1'-N9	12.15	117.92	108.20
1	AA	606	G	O4'-C1'-N9	12.14	117.92	108.20
26	BB	776	G	N1-C6-O6	-12.14	112.61	119.90
1	AA	91	U	N3-C2-O2	-12.14	113.70	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	686	U	N1-C2-N3	12.14	122.18	114.90
26	BB	295	G	N3-C2-N2	-12.14	111.40	119.90
26	BB	325	G	C8-N9-C4	-12.14	101.55	106.40
1	AA	219	U	O4'-C1'-N1	12.13	117.91	108.20
26	BB	2202	U	O4'-C1'-N1	12.13	117.91	108.20
26	BB	1125	G	N9-C4-C5	12.13	110.25	105.40
4	AD	19	G	N9-C4-C5	-12.12	100.55	105.40
4	AD	44	A	C2-N3-C4	12.12	116.66	110.60
26	BB	2042	A	N9-C4-C5	12.13	110.65	105.80
1	AA	748	G	N3-C4-C5	-12.12	122.54	128.60
1	AA	1510	C	N3-C4-C5	-12.12	117.05	121.90
26	BB	190	A	N9-C4-C5	12.12	110.65	105.80
4	AD	17	C	C3'-C2'-C1'	12.12	111.20	101.50
26	BB	1261	C	C1'-O4'-C4'	-12.12	100.20	109.90
26	BB	159	G	C8-N9-C4	-12.12	101.55	106.40
26	BB	2549	G	C8-N9-C4	-12.12	101.55	106.40
26	BB	2662	A	N1-C6-N6	-12.11	111.33	118.60
1	AA	466	A	C5-C6-N1	12.11	123.76	117.70
25	BA	63	C	N3-C4-C5	-12.11	117.06	121.90
26	BB	2430	A	C5-N7-C8	12.11	109.96	103.90
26	BB	409	G	O4'-C1'-N9	12.11	117.89	108.20
26	BB	1193	G	C2-N3-C4	12.11	117.95	111.90
26	BB	76	C	C4-C5-C6	12.10	123.45	117.40
26	BB	361	G	C6-C5-N7	-12.10	123.14	130.40
26	BB	1230	A	C5-N7-C8	-12.10	97.85	103.90
26	BB	726	G	N9-C4-C5	12.10	110.24	105.40
26	BB	1906	G	N3-C4-N9	12.10	133.26	126.00
26	BB	2734	A	O4'-C1'-N9	12.10	117.88	108.20
1	AA	760	G	C5'-C4'-O4'	12.09	123.61	109.10
10	AJ	43	TYR	CB-CG-CD1	12.09	128.26	121.00
25	BA	113	C	N3-C4-C5	-12.09	117.06	121.90
26	BB	621	A	N7-C8-N9	12.09	119.84	113.80
26	BB	1959	G	O4'-C1'-N9	12.09	117.87	108.20
26	BB	2760	C	C2-N3-C4	12.09	125.94	119.90
1	AA	771	G	C5-C6-N1	12.09	117.54	111.50
26	BB	469	G	C5-C6-N1	12.09	117.54	111.50
26	BB	591	U	C5-C4-O4	-12.09	118.65	125.90
26	BB	1807	G	C8-N9-C4	-12.08	101.57	106.40
1	AA	697	U	O4'-C1'-N1	12.08	117.86	108.20
1	AA	700	G	C2-N3-C4	12.08	117.94	111.90
26	BB	1320	C	O4'-C1'-N1	12.08	117.86	108.20
26	BB	250	G	N3-C4-C5	-12.08	122.56	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	857	G	N3-C4-C5	-12.08	122.56	128.60
26	BB	112	U	O4'-C1'-N1	12.07	117.86	108.20
26	BB	1361	G	N9-C4-C5	12.07	110.23	105.40
26	BB	2510	C	N3-C4-C5	12.07	126.73	121.90
26	BB	2617	U	C4-C5-C6	12.07	126.94	119.70
26	BB	2859	G	N3-C4-C5	-12.07	122.56	128.60
1	AA	1257	A	C5-C6-N6	-12.06	114.05	123.70
26	BB	2682	A	C8-N9-C4	-12.06	100.97	105.80
26	BB	1522	A	C8-N9-C4	-12.06	100.97	105.80
26	BB	751	A	O4'-C1'-N9	12.06	117.85	108.20
26	BB	1535	A	N1-C2-N3	-12.06	123.27	129.30
39	BO	117	PHE	CB-CG-CD2	-12.06	112.36	120.80
26	BB	1489	C	C4-C5-C6	-12.06	111.37	117.40
26	BB	2712	C	N1-C2-O2	12.05	126.13	118.90
1	AA	1104	G	N3-C4-C5	-12.05	122.58	128.60
26	BB	510	C	O4'-C1'-N1	12.05	117.84	108.20
26	BB	816	C	N3-C4-C5	-12.05	117.08	121.90
1	AA	1182	G	N7-C8-N9	12.05	119.12	113.10
1	AA	1241	G	N9-C4-C5	12.05	110.22	105.40
26	BB	438	G	C4-C5-N7	-12.05	105.98	110.80
26	BB	238	C	C6-N1-C2	-12.04	115.48	120.30
26	BB	612	G	C2-N3-C4	12.04	117.92	111.90
26	BB	1250	G	O4'-C1'-N9	12.04	117.83	108.20
1	AA	1201	A	P-O3'-C3'	12.04	134.14	119.70
26	BB	1054	A	N9-C4-C5	12.04	110.61	105.80
1	AA	752	G	N9-C4-C5	12.03	110.21	105.40
26	BB	464	U	C4-C5-C6	12.03	126.92	119.70
1	AA	405	U	C5-C4-O4	12.03	133.12	125.90
1	AA	1316	G	C2-N3-C4	12.02	117.91	111.90
26	BB	357	C	N1-C2-O2	12.02	126.11	118.90
26	BB	2117	A	C4-C5-N7	12.02	116.71	110.70
1	AA	715	A	N9-C4-C5	12.02	110.61	105.80
26	BB	171	U	C4-C5-C6	12.02	126.91	119.70
26	BB	493	G	C5-C6-N1	12.02	117.51	111.50
26	BB	945	A	N1-C2-N3	-12.02	123.29	129.30
26	BB	2574	G	C6-N1-C2	-12.02	117.89	125.10
26	BB	644	A	O4'-C1'-N9	12.01	117.81	108.20
26	BB	1974	C	C2-N3-C4	12.01	125.91	119.90
1	AA	858	G	C4-C5-N7	-12.01	106.00	110.80
1	AA	1476	A	O4'-C1'-N9	12.01	117.81	108.20
26	BB	1157	G	N3-C4-C5	-12.01	122.59	128.60
1	AA	1066	C	O4'-C1'-N1	12.01	117.81	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1356	G	C5-C6-N1	12.01	117.50	111.50
25	BA	69	G	C2-N3-C4	12.01	117.90	111.90
26	BB	2241	A	N9-C4-C5	12.00	110.60	105.80
26	BB	2851	A	C4-C5-N7	12.00	116.70	110.70
26	BB	218	A	C5-C6-N1	12.00	123.70	117.70
26	BB	748	G	O4'-C1'-N9	12.00	117.80	108.20
26	BB	2729	G	N3-C4-C5	-12.00	122.60	128.60
1	AA	1440	U	C5-C4-O4	-11.99	118.70	125.90
1	AA	1153	G	O4'-C1'-N9	11.99	117.79	108.20
1	AA	1204	A	C8-N9-C4	-11.99	101.00	105.80
26	BB	1488	C	C6-N1-C2	-11.99	115.50	120.30
26	BB	1285	A	N1-C2-N3	-11.99	123.31	129.30
26	BB	2733	A	N7-C8-N9	-11.99	107.80	113.80
25	BA	30	C	N3-C4-N4	11.99	126.39	118.00
26	BB	803	U	N3-C2-O2	-11.99	113.81	122.20
26	BB	1817	G	N9-C4-C5	-11.99	100.60	105.40
26	BB	2065	C	N3-C2-O2	-11.99	113.51	121.90
1	AA	188	C	O4'-C1'-N1	11.99	117.79	108.20
28	BD	216	ARG	NE-CZ-NH1	11.99	126.29	120.30
26	BB	2456	C	N3-C4-C5	-11.98	117.11	121.90
1	AA	785	G	C8-N9-C4	-11.98	101.61	106.40
26	BB	1763	G	C8-N9-C4	-11.98	101.61	106.40
26	BB	1408	G	C8-N9-C4	-11.98	101.61	106.40
26	BB	1557	C	O4'-C1'-N1	11.98	117.78	108.20
1	AA	1124	G	C8-N9-C4	-11.98	101.61	106.40
26	BB	2530	A	C5-C6-N1	11.98	123.69	117.70
1	AA	1440	U	N1-C2-N3	11.97	122.08	114.90
26	BB	2639	A	C5-C6-N1	11.97	123.69	117.70
25	BA	6	G	N7-C8-N9	11.97	119.08	113.10
1	AA	963	G	N3-C4-C5	-11.96	122.62	128.60
26	BB	1476	U	C5-C6-N1	-11.96	116.72	122.70
1	AA	429	U	O4'-C1'-N1	11.96	117.77	108.20
26	BB	348	A	N7-C8-N9	11.96	119.78	113.80
26	BB	2588	G	N7-C8-N9	11.96	119.08	113.10
26	BB	2120	G	C2-N3-C4	11.94	117.87	111.90
26	BB	425	G	N7-C8-N9	11.94	119.07	113.10
26	BB	1626	A	C5-N7-C8	-11.94	97.93	103.90
1	AA	1416	G	C8-N9-C4	-11.93	101.63	106.40
1	AA	465	A	N1-C2-N3	-11.93	123.33	129.30
1	AA	909	A	C8-N9-C4	-11.93	101.03	105.80
26	BB	1507	C	O4'-C1'-N1	11.93	117.75	108.20
26	BB	438	G	O4'-C1'-N9	11.93	117.74	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2683	C	C6-N1-C2	-11.93	115.53	120.30
1	AA	1375	A	C8-N9-C4	-11.93	101.03	105.80
1	AA	814	A	N1-C2-N3	11.92	135.26	129.30
1	AA	284	C	O4'-C1'-N1	11.92	117.74	108.20
26	BB	185	G	C5-N7-C8	11.92	110.26	104.30
26	BB	1743	G	N1-C2-N3	11.92	131.05	123.90
1	AA	573	A	N1-C6-N6	11.92	125.75	118.60
2	AB	67	G	C2-N3-C4	11.92	117.86	111.90
26	BB	1095	A	N1-C2-N3	-11.92	123.34	129.30
26	BB	351	C	N3-C4-C5	-11.92	117.13	121.90
26	BB	1824	G	N3-C4-C5	-11.92	122.64	128.60
26	BB	2444	G	O4'-C1'-N9	11.92	117.73	108.20
26	BB	1481	U	N3-C2-O2	-11.91	113.86	122.20
26	BB	2276	G	O4'-C1'-N9	11.91	117.73	108.20
20	AT	76	ARG	NE-CZ-NH2	-11.91	114.35	120.30
26	BB	1426	G	C8-N9-C4	-11.91	101.64	106.40
1	AA	153	C	C5-C4-N4	-11.91	111.86	120.20
26	BB	1216	G	N1-C2-N3	11.90	131.04	123.90
26	BB	1572	A	N1-C6-N6	-11.90	111.46	118.60
1	AA	318	G	C8-N9-C4	-11.89	101.64	106.40
26	BB	1468	U	O4'-C1'-N1	11.89	117.72	108.20
26	BB	624	C	N3-C4-C5	-11.89	117.14	121.90
26	BB	1670	C	N3-C4-C5	-11.89	117.14	121.90
26	BB	667	U	C2-N3-C4	-11.89	119.87	127.00
26	BB	430	A	C5-C6-N1	11.88	123.64	117.70
26	BB	370	G	N1-C6-O6	11.88	127.03	119.90
1	AA	203	G	N7-C8-N9	11.88	119.04	113.10
1	AA	204	G	C5-N7-C8	-11.88	98.36	104.30
1	AA	1472	U	O4'-C1'-N1	11.88	117.70	108.20
26	BB	2625	G	C8-N9-C4	-11.88	101.65	106.40
26	BB	2692	G	N7-C8-N9	11.88	119.04	113.10
1	AA	1453	G	O4'-C1'-N9	11.88	117.70	108.20
26	BB	547	A	N7-C8-N9	-11.88	107.86	113.80
26	BB	1907	G	C8-N9-C4	-11.88	101.65	106.40
26	BB	116	C	O4'-C1'-N1	11.87	117.70	108.20
1	AA	333	U	N3-C2-O2	-11.87	113.89	122.20
26	BB	764	A	C8-N9-C4	-11.87	101.05	105.80
1	AA	1029	U	C6-N1-C2	-11.87	113.88	121.00
1	AA	1224	U	N3-C2-O2	-11.87	113.89	122.20
1	AA	1249	C	C6-N1-C2	-11.87	115.55	120.30
25	BA	70	C	O4'-C1'-N1	11.87	117.69	108.20
26	BB	2255	G	N9-C4-C5	11.87	110.15	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	586	A	C5-N7-C8	-11.87	97.97	103.90
26	BB	2349	G	O4'-C1'-N9	11.86	117.69	108.20
27	BC	164	ARG	NE-CZ-NH2	-11.86	114.37	120.30
1	AA	15	G	N1-C2-N3	-11.85	116.79	123.90
1	AA	1370	G	N3-C2-N2	11.85	128.20	119.90
26	BB	55	G	N1-C6-O6	11.85	127.01	119.90
36	BL	44	TYR	CB-CG-CD1	-11.85	113.89	121.00
1	AA	810	C	C2-N3-C4	11.84	125.82	119.90
3	AC	56	G	O4'-C1'-N9	11.84	117.67	108.20
10	AJ	94	ARG	NE-CZ-NH1	11.84	126.22	120.30
25	BA	75	G	N3-C4-C5	-11.84	122.68	128.60
26	BB	288	U	O4'-C1'-N1	11.84	117.67	108.20
26	BB	1088	A	C8-N9-C4	-11.84	101.06	105.80
24	AX	44	ARG	NE-CZ-NH1	11.83	126.22	120.30
26	BB	924	G	C8-N9-C4	-11.83	101.67	106.40
26	BB	1881	C	N1-C2-O2	11.83	126.00	118.90
26	BB	2793	C	O4'-C1'-N1	11.83	117.66	108.20
26	BB	1318	U	O4'-C1'-N1	11.83	117.66	108.20
26	BB	2063	C	C4-C5-C6	11.83	123.31	117.40
26	BB	1337	G	N9-C4-C5	11.83	110.13	105.40
26	BB	1084	A	N9-C4-C5	11.82	110.53	105.80
1	AA	82	G	C2-N3-C4	11.82	117.81	111.90
1	AA	1154	G	N3-C4-C5	-11.82	122.69	128.60
26	BB	1738	G	N1-C2-N3	-11.82	116.81	123.90
26	BB	2369	A	N9-C4-C5	11.82	110.53	105.80
1	AA	231	U	O4'-C1'-N1	11.82	117.65	108.20
12	AL	37	TYR	CB-CG-CD2	-11.82	113.91	121.00
26	BB	1171	G	N9-C4-C5	11.82	110.13	105.40
26	BB	387	U	N3-C2-O2	-11.82	113.93	122.20
54	B3	16	ARG	NE-CZ-NH1	11.82	126.21	120.30
26	BB	1217	U	O4'-C1'-N1	11.81	117.65	108.20
26	BB	2336	A	C3'-C2'-C1'	-11.81	92.05	101.50
26	BB	2774	C	O4'-C1'-N1	11.81	117.64	108.20
25	BA	89	U	N3-C2-O2	-11.80	113.94	122.20
1	AA	327	A	N1-C6-N6	11.79	125.68	118.60
1	AA	185	U	O4'-C1'-N1	11.79	117.63	108.20
26	BB	1150	C	O4'-C1'-N1	11.79	117.63	108.20
1	AA	1539	C	N3-C4-N4	11.79	126.25	118.00
26	BB	2106	U	C4-C5-C6	11.79	126.77	119.70
1	AA	1360	A	C5'-C4'-O4'	11.79	123.24	109.10
1	AA	328	C	C6-N1-C2	-11.78	115.59	120.30
1	AA	382	A	C8-N9-C4	-11.78	101.09	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	440	C	O4'-C1'-N1	11.78	117.63	108.20
26	BB	2660	A	C2-N3-C4	11.78	116.49	110.60
1	AA	801	U	C5-C6-N1	-11.78	116.81	122.70
1	AA	340	U	N3-C4-O4	11.78	127.64	119.40
1	AA	397	A	N1-C2-N3	-11.78	123.41	129.30
1	AA	699	C	N3-C4-C5	-11.78	117.19	121.90
26	BB	860	U	C5-C6-N1	11.78	128.59	122.70
1	AA	684	U	C5-C4-O4	-11.78	118.83	125.90
26	BB	2131	U	O4'-C1'-N1	11.78	117.62	108.20
26	BB	2646	C	N3-C4-C5	-11.78	117.19	121.90
26	BB	561	G	P-O3'-C3'	11.77	133.83	119.70
1	AA	406	G	N7-C8-N9	11.77	118.98	113.10
1	AA	484	G	C5-C6-O6	-11.77	121.54	128.60
26	BB	1924	C	O4'-C1'-N1	11.77	117.62	108.20
26	BB	1928	A	N9-C4-C5	11.77	110.51	105.80
26	BB	1416	G	C8-N9-C4	-11.77	101.69	106.40
26	BB	952	G	C4-C5-N7	-11.76	106.09	110.80
26	BB	86	G	C8-N9-C4	-11.76	101.70	106.40
26	BB	1603	A	N1-C6-N6	-11.76	111.55	118.60
26	BB	2567	G	C8-N9-C4	-11.76	101.70	106.40
1	AA	144	G	C8-N9-C4	-11.76	101.70	106.40
1	AA	57	G	N9-C4-C5	11.75	110.10	105.40
26	BB	1416	G	N9-C4-C5	11.75	110.10	105.40
1	AA	164	G	C4-C5-N7	-11.75	106.10	110.80
26	BB	2031	A	N9-C4-C5	11.75	110.50	105.80
1	AA	757	U	O4'-C1'-N1	11.75	117.60	108.20
26	BB	1099	G	C8-N9-C4	-11.75	101.70	106.40
26	BB	134	G	C5-C6-O6	-11.75	121.55	128.60
26	BB	2175	C	C5-C4-N4	-11.75	111.98	120.20
26	BB	2299	U	C2-N3-C4	-11.74	119.95	127.00
1	AA	1136	C	C6-N1-C2	-11.74	115.60	120.30
26	BB	86	G	N9-C4-C5	11.74	110.10	105.40
1	AA	187	G	C4'-C3'-C2'	-11.74	90.86	102.60
26	BB	1169	A	C5-N7-C8	11.73	109.77	103.90
26	BB	1333	G	N3-C4-C5	-11.73	122.73	128.60
26	BB	2266	A	O4'-C1'-N9	11.73	117.59	108.20
1	AA	1270	G	C8-N9-C4	-11.73	101.71	106.40
4	AD	41	C	N3-C4-C5	-11.73	117.21	121.90
26	BB	409	G	C4-C5-N7	-11.73	106.11	110.80
26	BB	1129	A	C8-N9-C4	-11.73	101.11	105.80
26	BB	2855	C	N3-C4-C5	-11.73	117.21	121.90
1	AA	410	G	N3-C2-N2	11.72	128.11	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1306	A	C8-N9-C4	-11.72	101.11	105.80
26	BB	1952	A	O4'-C1'-N9	11.72	117.58	108.20
26	BB	92	U	O4'-C1'-N1	11.72	117.57	108.20
1	AA	794	A	N1-C6-N6	-11.71	111.57	118.60
1	AA	1120	C	O4'-C1'-N1	11.71	117.57	108.20
26	BB	12	U	O4'-C1'-N1	11.71	117.57	108.20
26	BB	350	G	C6-C5-N7	11.71	137.43	130.40
26	BB	1299	G	C4-C5-N7	-11.71	106.11	110.80
15	AO	11	ARG	NE-CZ-NH1	11.71	126.16	120.30
26	BB	289	G	C8-N9-C4	-11.71	101.72	106.40
26	BB	1252	G	C2-N3-C4	11.71	117.75	111.90
26	BB	1310	G	N9-C4-C5	11.71	110.08	105.40
26	BB	1475	G	O4'-C1'-N9	11.71	117.57	108.20
26	BB	1810	A	N1-C2-N3	-11.71	123.45	129.30
26	BB	2165	C	O4'-C1'-N1	11.71	117.57	108.20
26	BB	2402	U	O4'-C1'-N1	11.71	117.56	108.20
26	BB	1000	A	N1-C2-N3	-11.71	123.45	129.30
1	AA	46	G	C5-N7-C8	-11.70	98.45	104.30
1	AA	1452	C	O4'-C1'-N1	11.70	117.56	108.20
2	AB	66	C	N1-C2-O2	11.70	125.92	118.90
26	BB	2241	A	C5-C6-N1	11.70	123.55	117.70
1	AA	222	C	C6-N1-C2	-11.70	115.62	120.30
26	BB	348	A	O4'-C1'-N9	11.70	117.56	108.20
26	BB	1048	A	C2-N3-C4	11.70	116.45	110.60
26	BB	1180	U	O4'-C1'-N1	11.70	117.56	108.20
26	BB	1461	C	C5-C4-N4	-11.69	112.02	120.20
26	BB	2738	A	N1-C6-N6	-11.69	111.58	118.60
26	BB	2777	G	N3-C4-C5	-11.69	122.76	128.60
1	AA	134	G	C2-N3-C4	11.69	117.74	111.90
1	AA	433	G	O4'-C1'-N9	11.68	117.55	108.20
26	BB	2486	C	O4'-C1'-N1	11.68	117.55	108.20
1	AA	406	G	C5-N7-C8	-11.68	98.46	104.30
26	BB	1847	A	O4'-C1'-N9	11.68	117.54	108.20
26	BB	853	C	N3-C4-C5	-11.67	117.23	121.90
1	AA	721	G	N9-C4-C5	11.67	110.07	105.40
1	AA	1510	C	C6-N1-C2	-11.67	115.63	120.30
26	BB	931	U	O4'-C1'-N1	11.67	117.54	108.20
26	BB	2657	A	C4-C5-C6	-11.67	111.17	117.00
1	AA	246	A	O4'-C1'-N9	11.67	117.53	108.20
1	AA	384	G	C6-N1-C2	-11.67	118.10	125.10
1	AA	777	A	O4'-C1'-N9	11.67	117.53	108.20
26	BB	819	A	N1-C6-N6	11.67	125.60	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1018	G	C8-N9-C4	-11.66	101.73	106.40
26	BB	218	A	C5-C6-N6	-11.66	114.37	123.70
26	BB	260	G	C5-C6-N1	11.66	117.33	111.50
3	AC	56	G	C8-N9-C4	-11.66	101.74	106.40
26	BB	2035	G	C5-N7-C8	11.66	110.13	104.30
38	BN	2	ARG	NE-CZ-NH2	11.66	126.13	120.30
26	BB	1974	C	N3-C4-C5	-11.65	117.24	121.90
26	BB	150	U	O4'-C1'-N1	11.65	117.52	108.20
26	BB	2469	A	O4'-C1'-N9	11.65	117.52	108.20
3	AC	25	U	O4'-C1'-N1	11.65	117.52	108.20
25	BA	75	G	C6-C5-N7	-11.65	123.41	130.40
26	BB	2410	G	N9-C4-C5	11.65	110.06	105.40
1	AA	381	C	O4'-C1'-N1	11.65	117.52	108.20
26	BB	1157	G	C2-N3-C4	11.65	117.72	111.90
1	AA	776	G	N9-C4-C5	11.64	110.06	105.40
41	BQ	81	ARG	NE-CZ-NH2	-11.64	114.48	120.30
1	AA	1467	C	N1-C2-O2	11.64	125.88	118.90
26	BB	1819	A	N7-C8-N9	11.64	119.62	113.80
26	BB	2351	G	N9-C4-C5	11.63	110.05	105.40
26	BB	2618	G	N3-C4-C5	-11.63	122.78	128.60
26	BB	146	A	N9-C4-C5	11.63	110.45	105.80
1	AA	270	A	C8-N9-C4	-11.63	101.15	105.80
1	AA	1084	G	N1-C6-O6	-11.63	112.92	119.90
26	BB	490	C	N3-C4-C5	-11.62	117.25	121.90
1	AA	347	G	C8-N9-C4	-11.62	101.75	106.40
26	BB	736	C	N3-C4-C5	-11.62	117.25	121.90
26	BB	2747	G	N7-C8-N9	11.62	118.91	113.10
26	BB	1567	G	N7-C8-N9	11.62	118.91	113.10
26	BB	2463	C	C6-N1-C2	11.62	124.95	120.30
1	AA	917	G	C8-N9-C4	-11.62	101.75	106.40
26	BB	931	U	N3-C2-O2	-11.62	114.07	122.20
1	AA	26	A	N7-C8-N9	-11.61	107.99	113.80
1	AA	723	U	O4'-C1'-N1	11.62	117.49	108.20
1	AA	1050	G	C5-C6-O6	11.61	135.57	128.60
26	BB	510	C	N1-C2-O2	11.62	125.87	118.90
26	BB	1366	A	C8-N9-C4	-11.61	101.16	105.80
26	BB	518	G	C5-N7-C8	-11.61	98.50	104.30
26	BB	1681	G	N9-C4-C5	11.61	110.04	105.40
1	AA	3	A	C2-N3-C4	11.61	116.40	110.60
26	BB	1187	G	C3'-C2'-C1'	11.61	110.78	101.50
26	BB	1028	A	C5-C6-N1	-11.60	111.90	117.70
1	AA	462	G	C1'-O4'-C4'	-11.60	100.62	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	774	G	C4-C5-N7	11.60	115.44	110.80
1	AA	1231	G	N7-C8-N9	11.60	118.90	113.10
26	BB	287	G	O4'-C1'-N9	11.60	117.48	108.20
26	BB	683	U	C2-N3-C4	-11.60	120.04	127.00
26	BB	2842	G	N3-C4-N9	11.60	132.96	126.00
1	AA	786	G	O4'-C1'-N9	11.59	117.47	108.20
1	AA	750	C	O4'-C1'-N1	11.59	117.47	108.20
25	BA	88	C	O4'-C1'-N1	11.59	117.47	108.20
26	BB	2351	G	N3-C4-C5	-11.59	122.80	128.60
1	AA	420	U	C5-C6-N1	-11.59	116.91	122.70
26	BB	380	G	N7-C8-N9	11.59	118.89	113.10
26	BB	578	G	N3-C4-C5	-11.59	122.81	128.60
26	BB	2636	C	N3-C4-C5	11.59	126.53	121.90
26	BB	1477	A	N7-C8-N9	11.58	119.59	113.80
1	AA	589	U	C5-C4-O4	-11.58	118.95	125.90
26	BB	1498	C	N3-C2-O2	-11.58	113.79	121.90
26	BB	788	A	C5-C6-N1	-11.58	111.91	117.70
26	BB	969	G	C8-N9-C4	-11.58	101.77	106.40
26	BB	1570	A	O4'-C1'-N9	11.57	117.46	108.20
26	BB	1404	C	C6-N1-C2	-11.57	115.67	120.30
26	BB	2801	G	C8-N9-C4	-11.57	101.77	106.40
26	BB	258	G	N3-C4-C5	-11.57	122.82	128.60
26	BB	668	A	C4-C5-N7	-11.56	104.92	110.70
26	BB	2674	G	N1-C2-N3	-11.56	116.96	123.90
26	BB	2410	G	C8-N9-C4	-11.56	101.78	106.40
26	BB	2842	G	N3-C4-C5	-11.56	122.82	128.60
1	AA	1167	A	C8-N9-C4	-11.55	101.18	105.80
26	BB	65	U	N1-C2-N3	11.55	121.83	114.90
26	BB	615	U	O4'-C1'-N1	11.55	117.44	108.20
1	AA	1329	A	C8-N9-C4	-11.55	101.18	105.80
26	BB	2810	A	C8-N9-C4	-11.55	101.18	105.80
26	BB	327	G	C4-C5-N7	-11.55	106.18	110.80
26	BB	549	G	O4'-C1'-N9	11.55	117.44	108.20
1	AA	1050	G	N1-C6-O6	-11.54	112.97	119.90
1	AA	1448	C	N3-C4-C5	-11.54	117.28	121.90
1	AA	1279	G	N7-C8-N9	11.54	118.87	113.10
1	AA	1087	G	C8-N9-C4	-11.54	101.79	106.40
4	AD	37	U	C5-C4-O4	-11.54	118.98	125.90
26	BB	1088	A	N9-C4-C5	11.54	110.42	105.80
1	AA	838	G	C4-C5-C6	11.53	125.72	118.80
26	BB	2095	A	C8-N9-C4	-11.53	101.19	105.80
26	BB	2325	G	N1-C6-O6	-11.53	112.98	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	655	A	C8-N9-C4	-11.53	101.19	105.80
26	BB	556	A	C8-N9-C4	-11.53	101.19	105.80
1	AA	262	A	C8-N9-C4	-11.52	101.19	105.80
26	BB	7	G	C8-N9-C4	-11.52	101.79	106.40
26	BB	1129	A	N9-C4-C5	11.52	110.41	105.80
26	BB	2884	U	N1-C2-O2	11.52	130.87	122.80
26	BB	1091	G	N3-C4-N9	11.52	132.91	126.00
26	BB	506	G	N3-C4-C5	-11.52	122.84	128.60
26	BB	569	U	C5-C6-N1	-11.52	116.94	122.70
25	BA	13	G	O4'-C1'-N9	11.52	117.41	108.20
1	AA	674	G	C8-N9-C4	-11.51	101.80	106.40
1	AA	1109	C	C6-N1-C2	11.51	124.91	120.30
26	BB	2869	G	N7-C8-N9	11.51	118.86	113.10
39	BO	81	ARG	NE-CZ-NH1	11.51	126.05	120.30
26	BB	619	G	C2-N3-C4	11.51	117.65	111.90
26	BB	2784	U	O4'-C1'-N1	11.51	117.40	108.20
1	AA	873	A	N9-C4-C5	11.50	110.40	105.80
26	BB	2314	A	C4-C5-C6	-11.50	111.25	117.00
3	AC	25	U	C5-C4-O4	-11.50	119.00	125.90
38	BN	126	ARG	NE-CZ-NH1	-11.50	114.55	120.30
1	AA	1108	G	N1-C6-O6	11.50	126.80	119.90
26	BB	271	G	O4'-C1'-N9	11.50	117.40	108.20
26	BB	1430	G	C5-N7-C8	-11.50	98.55	104.30
26	BB	2058	A	C6-N1-C2	11.50	125.50	118.60
1	AA	1109	C	C2-N3-C4	11.49	125.65	119.90
1	AA	641	U	O4'-C1'-N1	11.49	117.39	108.20
26	BB	2399	G	C4-C5-N7	-11.49	106.20	110.80
26	BB	2694	G	N7-C8-N9	11.49	118.85	113.10
17	AQ	64	ARG	NE-CZ-NH2	-11.49	114.56	120.30
26	BB	899	A	C4-C5-C6	11.49	122.74	117.00
1	AA	1260	G	C5-C6-O6	-11.48	121.71	128.60
31	BG	94	ARG	NE-CZ-NH2	-11.48	114.56	120.30
1	AA	683	G	O4'-C1'-N9	11.48	117.38	108.20
1	AA	1435	G	C5-N7-C8	-11.47	98.56	104.30
26	BB	1024	G	C8-N9-C4	-11.47	101.81	106.40
26	BB	2018	G	N3-C4-C5	-11.47	122.86	128.60
26	BB	981	A	C2-N3-C4	11.47	116.33	110.60
1	AA	938	A	N9-C4-C5	11.46	110.39	105.80
26	BB	316	C	O4'-C1'-N1	11.47	117.37	108.20
26	BB	1056	G	N3-C4-C5	-11.47	122.87	128.60
26	BB	1661	G	C5-C6-O6	-11.46	121.72	128.60
1	AA	82	G	C4-C5-N7	-11.46	106.22	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	614	C	C5-C6-N1	11.46	126.73	121.00
1	AA	1417	G	C6-C5-N7	-11.46	123.52	130.40
26	BB	166	U	N3-C2-O2	-11.46	114.18	122.20
26	BB	564	C	N3-C4-C5	11.46	126.48	121.90
26	BB	1548	A	N9-C1'-C2'	-11.46	99.10	114.00
26	BB	2492	U	C5-C4-O4	-11.46	119.02	125.90
26	BB	2759	G	O4'-C1'-N9	11.46	117.37	108.20
26	BB	1617	C	C6-N1-C2	11.46	124.88	120.30
1	AA	1041	G	N3-C4-C5	-11.46	122.87	128.60
1	AA	1431	A	N1-C6-N6	11.46	125.47	118.60
26	BB	946	C	N3-C4-N4	11.46	126.02	118.00
1	AA	590	U	C2-N3-C4	-11.45	120.13	127.00
26	BB	769	U	N3-C2-O2	-11.45	114.18	122.20
1	AA	1440	U	C2-N3-C4	-11.45	120.13	127.00
26	BB	1973	G	C5-N7-C8	-11.45	98.57	104.30
1	AA	434	U	C6-N1-C2	-11.45	114.13	121.00
1	AA	1032	G	C4-C5-C6	11.45	125.67	118.80
26	BB	2266	A	N1-C2-N3	-11.45	123.58	129.30
26	BB	723	C	N1-C2-O2	11.45	125.77	118.90
26	BB	1448	G	C2-N3-C4	11.45	117.62	111.90
1	AA	526	C	N3-C4-C5	-11.44	117.32	121.90
4	AD	4	G	C4-C5-N7	-11.44	106.22	110.80
26	BB	733	G	O4'-C1'-N9	11.44	117.36	108.20
26	BB	764	A	C4-C5-N7	-11.44	104.98	110.70
26	BB	1078	U	O4'-C1'-N1	11.44	117.35	108.20
3	AC	35	G	C8-N9-C4	-11.44	101.82	106.40
26	BB	2325	G	C4-C5-N7	-11.44	106.22	110.80
26	BB	1062	G	N7-C8-N9	11.44	118.82	113.10
26	BB	1123	C	N1-C2-O2	11.44	125.76	118.90
26	BB	1398	C	N3-C4-C5	-11.44	117.33	121.90
1	AA	1245	C	N3-C4-C5	-11.43	117.33	121.90
26	BB	275	C	N3-C4-C5	-11.43	117.33	121.90
26	BB	583	G	C8-N9-C4	-11.43	101.83	106.40
26	BB	530	G	C2-N3-C4	11.43	117.61	111.90
26	BB	1507	C	N3-C4-C5	11.43	126.47	121.90
26	BB	2176	A	C2-N3-C4	11.43	116.31	110.60
26	BB	2588	G	C8-N9-C4	-11.42	101.83	106.40
1	AA	505	G	O4'-C1'-N9	11.42	117.34	108.20
25	BA	43	C	N1-C2-O2	11.42	125.75	118.90
26	BB	52	A	C8-N9-C4	-11.42	101.23	105.80
26	BB	60	G	O4'-C4'-C3'	11.42	115.42	104.00
26	BB	977	G	C5-N7-C8	-11.42	98.59	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1568	G	N3-C4-C5	-11.42	122.89	128.60
26	BB	2319	G	O4'-C1'-N9	11.42	117.33	108.20
1	AA	898	G	C6-C5-N7	-11.41	123.55	130.40
1	AA	1450	U	O4'-C1'-N1	11.41	117.33	108.20
26	BB	358	U	C6-N1-C2	-11.41	114.15	121.00
1	AA	907	A	C8-N9-C4	-11.41	101.24	105.80
1	AA	565	U	C4-C5-C6	11.41	126.55	119.70
26	BB	1635	A	O4'-C1'-N9	11.41	117.33	108.20
26	BB	707	G	N9-C4-C5	11.41	109.96	105.40
26	BB	1921	G	C2-N3-C4	11.41	117.60	111.90
26	BB	2253	G	N3-C4-C5	-11.40	122.90	128.60
25	BA	66	A	N1-C2-N3	-11.40	123.60	129.30
26	BB	2198	A	C6-N1-C2	-11.40	111.76	118.60
26	BB	1857	G	O4'-C1'-N9	11.40	117.32	108.20
1	AA	568	G	N9-C4-C5	11.40	109.96	105.40
28	BD	211	ARG	NE-CZ-NH1	11.40	126.00	120.30
1	AA	719	C	N3-C4-C5	-11.39	117.34	121.90
26	BB	1901	A	C2-N3-C4	11.39	116.30	110.60
1	AA	50	A	O4'-C1'-N9	11.39	117.31	108.20
26	BB	2782	G	C2-N3-C4	11.39	117.60	111.90
26	BB	2016	U	C3'-C2'-C1'	-11.39	92.39	101.50
1	AA	361	G	C2-N3-C4	11.39	117.59	111.90
28	BD	68	ARG	NE-CZ-NH1	11.39	125.99	120.30
1	AA	1539	C	C5-C4-N4	-11.39	112.23	120.20
1	AA	1426	G	O4'-C1'-N9	11.38	117.31	108.20
26	BB	1380	G	C8-N9-C4	-11.38	101.85	106.40
26	BB	2832	U	O4'-C1'-N1	11.38	117.31	108.20
26	BB	1549	A	O4'-C1'-N9	11.38	117.30	108.20
1	AA	220	G	O4'-C1'-N9	11.37	117.30	108.20
1	AA	1525	G	C4-C5-N7	11.37	115.35	110.80
26	BB	1074	G	C8-N9-C4	-11.37	101.85	106.40
26	BB	1733	G	O4'-C1'-N9	11.37	117.30	108.20
26	BB	1831	G	N3-C4-C5	-11.37	122.92	128.60
1	AA	1502	A	O4'-C1'-N9	11.37	117.30	108.20
1	AA	1319	A	C5-N7-C8	-11.37	98.22	103.90
26	BB	232	G	N9-C4-C5	11.37	109.95	105.40
26	BB	1169	A	C4-C5-N7	-11.37	105.02	110.70
26	BB	1407	G	O4'-C1'-N9	11.37	117.30	108.20
26	BB	1989	G	N3-C4-C5	-11.37	122.92	128.60
1	AA	401	C	O4'-C1'-N1	11.36	117.29	108.20
1	AA	1233	G	C2-N3-C4	11.36	117.58	111.90
1	AA	1373	G	C8-N9-C4	-11.36	101.86	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	98	G	C4-C5-N7	-11.36	106.26	110.80
26	BB	2413	G	N3-C2-N2	-11.36	111.95	119.90
14	AN	68	ARG	NE-CZ-NH1	11.36	125.98	120.30
26	BB	1423	G	N9-C4-C5	11.36	109.94	105.40
26	BB	1606	C	N1-C2-O2	11.36	125.71	118.90
1	AA	419	C	N3-C4-C5	-11.36	117.36	121.90
26	BB	234	U	O4'-C1'-N1	11.35	117.28	108.20
26	BB	77	G	C8-N9-C4	-11.35	101.86	106.40
26	BB	312	G	C8-N9-C4	-11.35	101.86	106.40
26	BB	1998	A	C5-N7-C8	11.35	109.58	103.90
26	BB	2057	G	C5-C6-O6	11.35	135.41	128.60
1	AA	1057	G	C8-N9-C4	-11.35	101.86	106.40
26	BB	1813	G	C4-C5-N7	-11.35	106.26	110.80
1	AA	1189	U	C2-N3-C4	-11.34	120.19	127.00
26	BB	2555	U	O4'-C1'-N1	11.34	117.28	108.20
1	AA	231	U	N3-C2-O2	-11.34	114.26	122.20
1	AA	413	G	N7-C8-N9	11.34	118.77	113.10
1	AA	1084	G	C4-C5-N7	-11.34	106.26	110.80
26	BB	22	C	N3-C4-C5	-11.34	117.36	121.90
1	AA	1241	G	C4-C5-N7	-11.34	106.27	110.80
1	AA	1437	A	N1-C6-N6	11.34	125.40	118.60
26	BB	1144	A	N9-C4-C5	11.34	110.33	105.80
1	AA	424	G	C5-C6-N1	11.33	117.17	111.50
1	AA	17	U	O4'-C1'-N1	11.33	117.26	108.20
26	BB	2037	A	N1-C2-N3	-11.33	123.64	129.30
1	AA	1130	A	C5-N7-C8	11.33	109.56	103.90
26	BB	1802	A	C5'-C4'-C3'	-11.33	97.88	116.00
26	BB	2520	C	O4'-C1'-N1	11.33	117.26	108.20
26	BB	2618	G	C8-N9-C4	-11.33	101.87	106.40
26	BB	640	C	C5-C4-N4	-11.32	112.27	120.20
26	BB	1588	G	N3-C4-C5	-11.32	122.94	128.60
26	BB	2231	U	C5-C6-N1	-11.32	117.04	122.70
26	BB	1988	G	C5-N7-C8	11.32	109.96	104.30
26	BB	965	C	O4'-C1'-N1	11.32	117.25	108.20
26	BB	533	G	C5-N7-C8	11.32	109.96	104.30
26	BB	1082	U	O4'-C1'-N1	11.32	117.25	108.20
26	BB	2200	C	O4'-C1'-N1	11.32	117.25	108.20
26	BB	2374	C	N3-C4-C5	11.32	126.43	121.90
1	AA	421	U	C3'-C2'-C1'	11.31	110.55	101.50
1	AA	486	U	N1-C2-O2	-11.31	114.88	122.80
1	AA	945	G	C8-N9-C4	-11.31	101.87	106.40
2	AB	50	G	N7-C8-N9	11.31	118.76	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	548	G	N1-C6-O6	-11.31	113.11	119.90
26	BB	1827	U	O4'-C1'-N1	11.31	117.25	108.20
26	BB	2408	U	O4'-C1'-N1	11.31	117.25	108.20
1	AA	1169	A	C5-C6-N1	11.30	123.35	117.70
26	BB	1646	C	N1-C2-O2	11.30	125.68	118.90
1	AA	147	G	N9-C4-C5	11.30	109.92	105.40
26	BB	254	G	C8-N9-C4	-11.30	101.88	106.40
1	AA	838	G	N1-C6-O6	11.30	126.68	119.90
26	BB	1126	A	C5-C6-N1	11.30	123.35	117.70
26	BB	1807	G	N7-C8-N9	11.30	118.75	113.10
26	BB	1804	C	C6-N1-C2	-11.30	115.78	120.30
1	AA	434	U	N1-C2-N3	11.29	121.68	114.90
26	BB	1055	G	C5-C6-N1	11.30	117.15	111.50
1	AA	1485	U	C5-C4-O4	-11.29	119.12	125.90
9	AI	109	ARG	NE-CZ-NH2	-11.29	114.65	120.30
26	BB	395	U	O4'-C1'-N1	11.29	117.23	108.20
1	AA	172	A	C4-C5-C6	-11.29	111.35	117.00
26	BB	1461	C	C6-N1-C2	-11.29	115.78	120.30
26	BB	1673	G	N1-C6-O6	11.29	126.67	119.90
6	AF	171	ARG	NE-CZ-NH1	11.29	125.94	120.30
26	BB	1026	G	N3-C4-C5	-11.29	122.95	128.60
26	BB	600	G	N1-C6-O6	11.29	126.67	119.90
26	BB	1645	G	N1-C6-O6	-11.29	113.13	119.90
1	AA	547	A	C8-N9-C4	-11.29	101.29	105.80
26	BB	336	C	O4'-C1'-N1	11.29	117.23	108.20
26	BB	1299	G	N3-C4-C5	-11.29	122.96	128.60
4	AD	68	C	N1-C2-O2	11.28	125.67	118.90
1	AA	1360	A	C5-C6-N1	11.28	123.34	117.70
25	BA	68	C	O4'-C1'-N1	11.28	117.22	108.20
26	BB	102	U	N3-C2-O2	-11.28	114.31	122.20
26	BB	2845	U	C2-N3-C4	-11.28	120.23	127.00
26	BB	1552	A	C8-N9-C4	-11.28	101.29	105.80
26	BB	2473	U	O4'-C1'-N1	11.28	117.22	108.20
26	BB	243	U	O4'-C1'-N1	11.27	117.22	108.20
26	BB	707	G	N3-C4-C5	-11.27	122.97	128.60
26	BB	2844	G	N9-C4-C5	11.27	109.91	105.40
26	BB	2464	G	N3-C4-C5	-11.27	122.97	128.60
26	BB	2398	U	C5-C4-O4	-11.27	119.14	125.90
3	AC	22	G	C5-N7-C8	-11.27	98.67	104.30
26	BB	1142	A	N1-C2-N3	-11.27	123.67	129.30
26	BB	1943	U	N3-C2-O2	-11.27	114.31	122.20
26	BB	2751	G	N7-C8-N9	11.27	118.73	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1906	G	C5-N7-C8	-11.26	98.67	104.30
1	AA	264	C	C2-N3-C4	11.26	125.53	119.90
26	BB	2525	G	C5-N7-C8	-11.26	98.67	104.30
26	BB	1880	U	C5-C4-O4	-11.26	119.14	125.90
1	AA	1362	A	C8-N9-C4	-11.26	101.30	105.80
26	BB	781	A	C5-C6-N1	11.26	123.33	117.70
25	BA	69	G	C5-N7-C8	-11.25	98.67	104.30
26	BB	163	C	C5-C4-N4	-11.25	112.32	120.20
26	BB	949	G	N3-C4-C5	-11.25	122.97	128.60
35	BK	133	ARG	NE-CZ-NH2	-11.25	114.67	120.30
1	AA	65	A	C2-N3-C4	11.25	116.22	110.60
1	AA	76	G	C5-C6-O6	-11.25	121.85	128.60
1	AA	475	C	N1-C2-O2	11.25	125.65	118.90
1	AA	907	A	O4'-C1'-N9	11.25	117.20	108.20
26	BB	883	G	C2-N3-C4	11.25	117.53	111.90
26	BB	1724	G	C1'-O4'-C4'	11.25	118.90	109.90
26	BB	2557	G	C4-C5-N7	-11.25	106.30	110.80
26	BB	2730	C	N3-C2-O2	-11.25	114.03	121.90
38	BN	60	ARG	NE-CZ-NH2	-11.25	114.67	120.30
1	AA	509	A	C6-N1-C2	-11.25	111.85	118.60
26	BB	875	G	C6-N1-C2	-11.25	118.35	125.10
26	BB	2089	C	C6-N1-C2	11.25	124.80	120.30
30	BF	21	ARG	NE-CZ-NH2	11.25	125.92	120.30
42	BR	87	ARG	NE-CZ-NH1	11.25	125.92	120.30
26	BB	1600	C	N1-C2-O2	11.24	125.65	118.90
25	BA	75	G	N7-C8-N9	11.24	118.72	113.10
1	AA	728	A	C5-C6-N6	-11.24	114.71	123.70
26	BB	431	U	O4'-C1'-N1	11.24	117.19	108.20
26	BB	2107	G	N1-C6-O6	-11.24	113.16	119.90
1	AA	1504	G	N9-C4-C5	11.23	109.89	105.40
26	BB	319	G	N9-C4-C5	11.23	109.89	105.40
26	BB	908	C	C1'-O4'-C4'	-11.23	100.91	109.90
26	BB	932	U	N1-C2-O2	11.23	130.66	122.80
26	BB	781	A	C8-N9-C4	-11.23	101.31	105.80
26	BB	1155	A	N1-C6-N6	-11.23	111.86	118.60
26	BB	1581	G	C5-N7-C8	-11.23	98.69	104.30
26	BB	423	A	C5-N7-C8	11.23	109.51	103.90
26	BB	1609	A	C3'-C2'-C1'	11.23	110.48	101.50
26	BB	1815	A	C8-N9-C4	-11.23	101.31	105.80
26	BB	2023	C	N3-C2-O2	-11.23	114.04	121.90
1	AA	116	A	N9-C4-C5	11.22	110.29	105.80
1	AA	1181	G	N9-C4-C5	11.22	109.89	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1276	A	N1-C2-N3	-11.22	123.69	129.30
26	BB	1340	U	O4'-C1'-N1	11.22	117.18	108.20
26	BB	167	A	C2-N3-C4	11.22	116.21	110.60
1	AA	212	G	O4'-C1'-N9	11.22	117.18	108.20
1	AA	377	G	C8-N9-C4	-11.22	101.91	106.40
1	AA	721	G	O4'-C1'-C2'	-11.22	94.58	105.80
26	BB	921	C	O4'-C1'-N1	11.22	117.17	108.20
1	AA	848	C	O4'-C1'-N1	11.22	117.17	108.20
1	AA	352	C	O4'-C1'-N1	11.22	117.17	108.20
1	AA	152	A	C5-C6-N1	-11.21	112.09	117.70
1	AA	866	C	C4'-C3'-C2'	-11.21	91.39	102.60
2	AB	36	A	O4'-C4'-C3'	11.21	115.21	104.00
26	BB	1744	A	C3'-C2'-C1'	11.21	110.47	101.50
1	AA	68	G	C2-N3-C4	11.21	117.50	111.90
26	BB	629	G	C5-C6-N1	11.21	117.11	111.50
26	BB	2310	C	N3-C4-C5	-11.21	117.42	121.90
26	BB	1062	G	C5-N7-C8	-11.21	98.70	104.30
26	BB	2654	A	C5-C6-N1	11.21	123.30	117.70
1	AA	1334	G	C2-N3-C4	11.21	117.50	111.90
26	BB	350	G	C4-C5-N7	-11.21	106.32	110.80
1	AA	1462	C	N3-C2-O2	-11.20	114.06	121.90
26	BB	50	U	C5-C6-N1	-11.20	117.10	122.70
26	BB	993	G	C4-C5-N7	-11.20	106.32	110.80
26	BB	1289	C	C6-N1-C2	-11.20	115.82	120.30
26	BB	2790	U	N3-C2-O2	-11.20	114.36	122.20
26	BB	921	C	C5-C6-N1	11.19	126.60	121.00
26	BB	118	A	C8-N9-C4	-11.19	101.32	105.80
1	AA	48	C	N3-C2-O2	-11.19	114.07	121.90
26	BB	1662	U	O4'-C1'-N1	11.19	117.15	108.20
38	BN	78	ARG	NE-CZ-NH2	-11.19	114.71	120.30
26	BB	2778	A	C2-N3-C4	11.18	116.19	110.60
1	AA	69	G	N3-C4-C5	-11.18	123.01	128.60
1	AA	1033	G	N3-C4-C5	-11.18	123.01	128.60
26	BB	1025	G	C8-N9-C4	-11.18	101.93	106.40
26	BB	2209	G	C5-C6-N1	11.18	117.09	111.50
26	BB	1184	U	C3'-C2'-C1'	-11.18	92.56	101.50
1	AA	654	G	O4'-C1'-N9	11.17	117.14	108.20
26	BB	2301	C	C4-C5-C6	11.17	122.99	117.40
1	AA	124	C	N1-C2-O2	11.17	125.60	118.90
26	BB	834	G	N9-C4-C5	11.17	109.87	105.40
1	AA	1538	C	N1-C2-O2	11.16	125.60	118.90
26	BB	1861	G	C2-N3-C4	11.16	117.48	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1092	C	N3-C2-O2	-11.16	114.09	121.90
1	AA	953	G	N1-C2-N3	-11.16	117.21	123.90
1	AA	980	C	C2-N3-C4	11.16	125.48	119.90
26	BB	107	G	C8-N9-C4	11.16	110.86	106.40
26	BB	2035	G	C2-N3-C4	11.16	117.48	111.90
26	BB	2624	G	N7-C8-N9	11.15	118.68	113.10
1	AA	211	G	N3-C4-C5	-11.15	123.02	128.60
1	AA	1185	G	C8-N9-C4	-11.15	101.94	106.40
1	AA	1476	A	C6-N1-C2	-11.15	111.91	118.60
2	AB	74	C	N1-C2-O2	11.15	125.59	118.90
26	BB	1006	C	C4-C5-C6	-11.15	111.82	117.40
26	BB	1207	C	C5-C6-N1	11.15	126.58	121.00
26	BB	973	A	N9-C4-C5	11.15	110.26	105.80
1	AA	77	A	C8-N9-C4	-11.15	101.34	105.80
1	AA	785	G	C4-C5-N7	-11.15	106.34	110.80
26	BB	1323	C	C6-N1-C2	11.15	124.76	120.30
26	BB	1340	U	C4-C5-C6	11.15	126.39	119.70
26	BB	1944	U	O4'-C1'-N1	11.15	117.12	108.20
1	AA	720	C	C2-N3-C4	11.14	125.47	119.90
1	AA	841	C	O4'-C1'-N1	11.14	117.11	108.20
2	AB	61	C	C4'-C3'-C2'	-11.14	91.45	102.60
26	BB	645	C	N3-C2-O2	-11.14	114.10	121.90
26	BB	2256	G	O4'-C1'-N9	11.14	117.11	108.20
1	AA	1433	A	N7-C8-N9	11.14	119.37	113.80
26	BB	2372	U	N3-C4-O4	11.14	127.20	119.40
1	AA	199	A	C5-C6-N1	11.14	123.27	117.70
1	AA	1016	A	O4'-C1'-N9	11.14	117.11	108.20
26	BB	1456	G	C5-N7-C8	-11.14	98.73	104.30
1	AA	1303	C	N3-C4-C5	-11.13	117.45	121.90
25	BA	47	C	O4'-C1'-N1	11.13	117.11	108.20
45	BU	92	ARG	NE-CZ-NH1	11.13	125.87	120.30
1	AA	319	G	C4-C5-N7	-11.13	106.35	110.80
1	AA	564	C	C2-N3-C4	11.13	125.47	119.90
16	AP	91	ARG	NE-CZ-NH1	11.13	125.86	120.30
1	AA	586	C	N1-C2-O2	11.13	125.58	118.90
1	AA	741	G	N3-C4-C5	-11.12	123.04	128.60
26	BB	470	A	C8-N9-C4	-11.12	101.35	105.80
26	BB	1423	G	C2-N3-C4	11.12	117.46	111.90
1	AA	15	G	C2-N3-C4	11.12	117.46	111.90
1	AA	459	A	N1-C2-N3	-11.12	123.74	129.30
26	BB	1546	G	C6-C5-N7	11.12	137.07	130.40
26	BB	2053	G	N7-C8-N9	11.12	118.66	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	358	U	O4'-C1'-N1	11.12	117.09	108.20
26	BB	481	G	O4'-C1'-C2'	-11.11	94.69	105.80
1	AA	1241	G	N1-C6-O6	11.11	126.57	119.90
50	BZ	17	ARG	NE-CZ-NH1	-11.11	114.74	120.30
26	BB	2821	A	O4'-C1'-N9	11.11	117.09	108.20
1	AA	68	G	N3-C4-C5	-11.11	123.05	128.60
1	AA	250	A	C8-N9-C4	-11.11	101.36	105.80
1	AA	695	A	N9-C4-C5	11.11	110.24	105.80
26	BB	2405	G	N7-C8-N9	11.11	118.65	113.10
26	BB	2470	G	C5-C6-N1	11.11	117.05	111.50
1	AA	794	A	N9-C4-C5	11.10	110.24	105.80
1	AA	1181	G	O4'-C1'-N9	11.10	117.08	108.20
26	BB	270	A	N1-C2-N3	-11.10	123.75	129.30
1	AA	545	C	C4-C5-C6	11.10	122.95	117.40
26	BB	2107	G	N1-C2-N3	-11.10	117.24	123.90
1	AA	1400	C	N3-C2-O2	-11.10	114.13	121.90
26	BB	799	G	C2-N3-C4	11.10	117.45	111.90
26	BB	770	G	N1-C6-O6	-11.09	113.24	119.90
26	BB	1896	G	O4'-C1'-N9	-11.09	99.33	108.20
26	BB	1164	C	C5-C4-N4	11.09	127.96	120.20
26	BB	2685	G	C5-N7-C8	-11.09	98.75	104.30
1	AA	998	C	C2-N3-C4	11.09	125.44	119.90
1	AA	1421	G	N3-C4-C5	-11.09	123.06	128.60
1	AA	1479	C	N3-C4-C5	-11.09	117.47	121.90
16	AP	22	TYR	CB-CG-CD1	-11.09	114.35	121.00
26	BB	1567	G	C8-N9-C4	-11.09	101.97	106.40
1	AA	1049	U	O4'-C1'-N1	11.08	117.07	108.20
26	BB	110	G	C6-C5-N7	-11.08	123.75	130.40
26	BB	2332	C	O4'-C1'-N1	11.08	117.07	108.20
26	BB	93	G	O4'-C1'-N9	11.08	117.06	108.20
1	AA	329	A	O4'-C1'-N9	11.08	117.06	108.20
26	BB	2351	G	C5-C6-N1	11.08	117.04	111.50
1	AA	1243	C	N3-C4-C5	-11.08	117.47	121.90
21	AU	12	PHE	CB-CG-CD1	-11.08	113.05	120.80
26	BB	2041	U	O4'-C1'-N1	11.08	117.06	108.20
26	BB	2697	G	C4-C5-N7	-11.08	106.37	110.80
1	AA	1409	C	N3-C2-O2	-11.07	114.15	121.90
1	AA	1071	C	N1-C2-O2	-11.07	112.26	118.90
26	BB	2470	G	N9-C4-C5	-11.07	100.97	105.40
26	BB	2671	G	N9-C4-C5	11.07	109.83	105.40
26	BB	2730	C	N1-C2-O2	11.07	125.54	118.90
27	BC	74	ARG	NE-CZ-NH1	11.07	125.83	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	163	C	N3-C4-N4	11.07	125.75	118.00
26	BB	1124	G	O4'-C1'-N9	11.07	117.05	108.20
26	BB	1138	G	N9-C4-C5	-11.07	100.97	105.40
26	BB	2535	G	C8-N9-C4	-11.07	101.97	106.40
1	AA	674	G	N9-C4-C5	11.06	109.83	105.40
1	AA	1421	G	N3-C4-N9	11.06	132.64	126.00
26	BB	26	G	C4-C5-N7	-11.06	106.37	110.80
12	AL	118	ARG	NE-CZ-NH1	11.06	125.83	120.30
26	BB	1947	C	C5-C6-N1	-11.06	115.47	121.00
1	AA	172	A	C6-C5-N7	11.06	140.04	132.30
1	AA	1067	A	O4'-C1'-N9	11.06	117.05	108.20
26	BB	1829	A	C8-N9-C4	-11.06	101.38	105.80
1	AA	1097	C	C5-C6-N1	-11.05	115.47	121.00
1	AA	1169	A	C2-N3-C4	11.05	116.13	110.60
26	BB	922	C	N3-C4-C5	-11.05	117.48	121.90
26	BB	1108	U	C5-C6-N1	-11.05	117.17	122.70
26	BB	924	G	N9-C4-C5	11.05	109.82	105.40
4	AD	39	A	N1-C2-N3	-11.05	123.77	129.30
1	AA	1304	G	C5-N7-C8	-11.05	98.78	104.30
26	BB	787	C	N3-C2-O2	-11.05	114.17	121.90
1	AA	651	C	N3-C4-C5	-11.04	117.48	121.90
1	AA	869	G	C4-C5-N7	-11.04	106.38	110.80
1	AA	1029	U	O4'-C1'-N1	11.04	117.04	108.20
26	BB	1749	A	N9-C4-C5	11.04	110.22	105.80
1	AA	369	G	O4'-C1'-N9	11.04	117.03	108.20
1	AA	918	A	C8-N9-C4	-11.04	101.39	105.80
2	AB	59	G	C8-N9-C4	-11.04	101.98	106.40
26	BB	21	A	C5-C6-N1	11.04	123.22	117.70
58	B7	36	ARG	NE-CZ-NH1	11.04	125.82	120.30
2	AB	61	C	O4'-C1'-N1	11.04	117.03	108.20
1	AA	1046	A	C2-N3-C4	11.03	116.11	110.60
1	AA	1483	A	O4'-C1'-N9	11.03	117.02	108.20
26	BB	344	A	O4'-C1'-N9	11.03	117.02	108.20
26	BB	1089	A	C8-N9-C4	-11.03	101.39	105.80
26	BB	650	C	N1-C2-O2	11.03	125.52	118.90
26	BB	1954	G	C1'-O4'-C4'	-11.03	101.08	109.90
26	BB	478	A	C5-N7-C8	11.03	109.41	103.90
1	AA	1019	A	C5-N7-C8	-11.02	98.39	103.90
2	AB	73	G	C3'-C2'-C1'	11.02	110.31	101.50
26	BB	322	A	N9-C4-C5	11.01	110.20	105.80
54	B3	39	ARG	NE-CZ-NH1	11.01	125.81	120.30
26	BB	1109	C	C6-N1-C2	-11.01	115.89	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	754	C	N3-C2-O2	-11.01	114.19	121.90
26	BB	925	A	N1-C6-N6	11.01	125.21	118.60
26	BB	1283	G	N1-C6-O6	11.01	126.51	119.90
26	BB	2481	G	O4'-C4'-C3'	11.01	115.01	104.00
26	BB	2002	G	C6-N1-C2	-11.01	118.50	125.10
26	BB	2702	G	N7-C8-N9	11.01	118.60	113.10
25	BA	112	G	C4-C5-N7	-11.01	106.40	110.80
26	BB	2194	U	C2-N3-C4	-11.01	120.40	127.00
1	AA	70	U	C5-C6-N1	-11.00	117.20	122.70
26	BB	882	G	N3-C2-N2	11.00	127.60	119.90
1	AA	539	A	C2-N3-C4	11.00	116.10	110.60
26	BB	1841	U	O4'-C1'-N1	11.00	117.00	108.20
26	BB	1895	C	N3-C4-N4	11.00	125.70	118.00
1	AA	658	C	C4-C5-C6	11.00	122.90	117.40
1	AA	902	G	O4'-C1'-N9	11.00	117.00	108.20
26	BB	215	G	C1'-O4'-C4'	11.00	118.70	109.90
26	BB	669	G	C8-N9-C4	-11.00	102.00	106.40
26	BB	1536	C	P-O3'-C3'	11.00	132.90	119.70
26	BB	1540	G	C5-C6-N1	11.00	117.00	111.50
26	BB	1555	G	C8-N9-C4	-11.00	102.00	106.40
26	BB	2606	C	O4'-C1'-N1	11.00	117.00	108.20
1	AA	1017	U	O4'-C1'-N1	10.99	116.99	108.20
2	AB	67	G	C5-N7-C8	10.99	109.80	104.30
3	AC	29	G	C2-N3-C4	10.99	117.40	111.90
1	AA	241	G	C4-C5-C6	10.99	125.39	118.80
1	AA	1026	G	N3-C4-C5	-10.99	123.11	128.60
1	AA	11	G	N3-C4-N9	10.98	132.59	126.00
26	BB	1197	G	C6-C5-N7	-10.98	123.81	130.40
26	BB	2347	C	O4'-C1'-N1	10.98	116.99	108.20
6	AF	87	ARG	NE-CZ-NH1	10.98	125.79	120.30
26	BB	1002	G	C2-N3-C4	10.98	117.39	111.90
26	BB	949	G	C8-N9-C4	-10.98	102.01	106.40
1	AA	1235	U	O4'-C1'-N1	10.98	116.98	108.20
1	AA	1108	G	N9-C4-C5	10.98	109.79	105.40
26	BB	2576	G	C8-N9-C4	-10.98	102.01	106.40
27	BC	122	ARG	NE-CZ-NH1	10.98	125.79	120.30
1	AA	650	G	N3-C4-C5	-10.97	123.11	128.60
26	BB	1490	A	C5-C6-N1	10.97	123.19	117.70
1	AA	154	U	C2-N3-C4	-10.97	120.42	127.00
26	BB	883	G	N7-C8-N9	10.97	118.58	113.10
26	BB	1879	C	C2-N3-C4	-10.97	114.42	119.90
26	BB	677	A	N1-C6-N6	10.97	125.18	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2820	A	O4'-C1'-N9	10.97	116.97	108.20
1	AA	3	A	N1-C2-N3	-10.96	123.82	129.30
1	AA	320	A	N1-C2-N3	-10.96	123.82	129.30
26	BB	54	G	N7-C8-N9	10.96	118.58	113.10
26	BB	693	A	O4'-C1'-N9	10.96	116.97	108.20
1	AA	233	C	N1-C2-O2	10.96	125.48	118.90
1	AA	654	G	N3-C2-N2	-10.96	112.23	119.90
26	BB	153	U	C4-C5-C6	10.96	126.28	119.70
26	BB	605	G	N3-C4-C5	-10.96	123.12	128.60
1	AA	928	G	C5-C6-O6	10.96	135.17	128.60
26	BB	2376	A	C8-N9-C4	-10.96	101.42	105.80
26	BB	2281	A	N1-C6-N6	-10.95	112.03	118.60
26	BB	2865	U	O4'-C1'-N1	10.95	116.96	108.20
4	AD	7	G	C5-C6-O6	-10.95	122.03	128.60
26	BB	2633	G	O4'-C1'-N9	10.95	116.96	108.20
26	BB	2719	G	C8-N9-C4	-10.95	102.02	106.40
26	BB	2	G	C2-N3-C4	10.95	117.37	111.90
26	BB	1111	A	O4'-C1'-N9	10.95	116.96	108.20
26	BB	1283	G	N9-C4-C5	10.94	109.78	105.40
1	AA	54	C	C5-C6-N1	10.94	126.47	121.00
26	BB	447	A	N9-C4-C5	-10.94	101.42	105.80
26	BB	160	A	C5'-C4'-O4'	10.94	122.23	109.10
1	AA	575	G	C4-C5-N7	-10.94	106.42	110.80
1	AA	1014	A	C4-C5-N7	-10.94	105.23	110.70
26	BB	2290	G	C5-C6-N1	10.94	116.97	111.50
1	AA	159	G	C2-N3-C4	10.93	117.37	111.90
26	BB	264	C	C1'-O4'-C4'	-10.93	101.15	109.90
26	BB	2529	G	N9-C4-C5	10.93	109.77	105.40
26	BB	530	G	C5-C6-N1	10.93	116.97	111.50
26	BB	1418	G	N3-C4-C5	-10.93	123.13	128.60
1	AA	381	C	N3-C2-O2	-10.93	114.25	121.90
26	BB	1531	C	C5-C4-N4	10.93	127.85	120.20
1	AA	703	G	N9-C4-C5	10.93	109.77	105.40
26	BB	2309	A	C8-N9-C4	10.93	110.17	105.80
26	BB	2777	G	C8-N9-C4	-10.93	102.03	106.40
1	AA	384	G	C5-C6-O6	-10.92	122.05	128.60
1	AA	839	C	N1-C2-O2	10.92	125.45	118.90
1	AA	1044	A	C5'-C4'-O4'	10.92	122.21	109.10
9	AI	109	ARG	NE-CZ-NH1	10.92	125.76	120.30
1	AA	396	C	N1-C2-O2	10.92	125.45	118.90
26	BB	1394	U	O4'-C1'-N1	10.92	116.94	108.20
1	AA	760	G	O4'-C1'-N9	10.92	116.93	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1113	C	O4'-C1'-N1	10.92	116.93	108.20
25	BA	66	A	C8-N9-C4	-10.92	101.43	105.80
26	BB	2717	C	C4-C5-C6	-10.92	111.94	117.40
5	AE	221	ARG	NE-CZ-NH2	-10.91	114.84	120.30
1	AA	176	C	C6-N1-C2	-10.91	115.94	120.30
1	AA	443	C	N3-C4-C5	10.91	126.27	121.90
42	BR	52	ARG	NE-CZ-NH1	10.91	125.76	120.30
26	BB	623	C	N1-C2-O2	10.91	125.44	118.90
1	AA	326	G	O4'-C1'-N9	10.91	116.93	108.20
26	BB	1135	C	C4-C5-C6	-10.91	111.95	117.40
26	BB	1172	C	C2-N3-C4	10.91	125.35	119.90
26	BB	2804	U	C2-N3-C4	-10.91	120.46	127.00
25	BA	46	A	O4'-C1'-N9	10.90	116.92	108.20
1	AA	764	C	P-O3'-C3'	10.90	132.78	119.70
1	AA	1057	G	N9-C4-C5	10.90	109.76	105.40
26	BB	725	G	C2-N3-C4	10.90	117.35	111.90
26	BB	232	G	N3-C4-C5	-10.90	123.15	128.60
1	AA	719	C	C5-C4-N4	10.90	127.83	120.20
26	BB	784	G	O4'-C1'-N9	10.90	116.92	108.20
26	BB	2569	G	O4'-C1'-N9	10.90	116.92	108.20
26	BB	7	G	N3-C4-C5	-10.90	123.15	128.60
1	AA	1113	C	C5-C6-N1	10.90	126.45	121.00
1	AA	1473	G	C8-N9-C4	-10.90	102.04	106.40
26	BB	143	C	C6-N1-C2	-10.90	115.94	120.30
1	AA	44	A	C6-C5-N7	-10.89	124.67	132.30
3	AC	17	U	O4'-C1'-N1	10.89	116.91	108.20
26	BB	1235	G	C2-N3-C4	10.89	117.35	111.90
26	BB	2058	A	N1-C6-N6	10.89	125.14	118.60
1	AA	772	U	O4'-C1'-N1	10.89	116.91	108.20
26	BB	1541	C	N1-C2-O2	10.89	125.43	118.90
1	AA	758	C	C5-C6-N1	10.89	126.44	121.00
26	BB	364	C	N3-C4-C5	10.89	126.25	121.90
26	BB	1062	G	C5-C6-O6	-10.89	122.07	128.60
26	BB	2832	U	C4-C5-C6	10.89	126.23	119.70
1	AA	1243	C	C4-C5-C6	10.89	122.84	117.40
1	AA	122	G	O4'-C1'-N9	10.88	116.91	108.20
1	AA	987	G	N9-C4-C5	10.88	109.75	105.40
26	BB	931	U	N1-C2-O2	10.88	130.41	122.80
26	BB	1195	G	N3-C4-C5	-10.88	123.16	128.60
26	BB	1720	U	N3-C2-O2	10.88	129.81	122.20
26	BB	1975	G	C2-N3-C4	10.88	117.34	111.90
1	AA	522	C	N3-C4-C5	-10.88	117.55	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	903	C	N3-C4-N4	10.88	125.61	118.00
2	AB	19	G	N3-C4-C5	-10.87	123.16	128.60
26	BB	1494	A	N1-C2-N3	-10.87	123.86	129.30
26	BB	2759	G	N9-C4-C5	10.87	109.75	105.40
1	AA	1053	G	N3-C4-C5	-10.87	123.16	128.60
26	BB	586	A	N7-C8-N9	10.87	119.24	113.80
26	BB	1161	C	C6-N1-C2	-10.87	115.95	120.30
26	BB	1683	U	O4'-C1'-N1	10.87	116.90	108.20
1	AA	663	A	N7-C8-N9	-10.87	108.37	113.80
1	AA	487	A	C2-N3-C4	10.87	116.03	110.60
26	BB	604	G	C8-N9-C4	-10.86	102.05	106.40
1	AA	567	G	N7-C8-N9	10.86	118.53	113.10
26	BB	1665	A	C5-N7-C8	-10.86	98.47	103.90
26	BB	1361	G	C8-N9-C4	-10.86	102.06	106.40
45	BU	99	ARG	NE-CZ-NH1	10.86	125.73	120.30
26	BB	102	U	N1-C2-N3	10.86	121.42	114.90
1	AA	856	C	C5-C6-N1	-10.86	115.57	121.00
26	BB	305	C	C6-N1-C2	-10.86	115.96	120.30
26	BB	1643	G	N3-C4-C5	-10.86	123.17	128.60
26	BB	748	G	N3-C4-C5	-10.85	123.17	128.60
1	AA	423	G	C6-N1-C2	-10.85	118.59	125.10
1	AA	765	G	C8-N9-C4	-10.85	102.06	106.40
1	AA	1368	A	C8-N9-C4	-10.85	101.46	105.80
26	BB	313	G	C6-C5-N7	-10.85	123.89	130.40
26	BB	1568	G	C2-N3-C4	10.84	117.32	111.90
26	BB	2250	G	C4-C5-N7	-10.84	106.47	110.80
1	AA	748	G	C6-C5-N7	-10.84	123.90	130.40
26	BB	73	A	C5-C6-N1	-10.84	112.28	117.70
26	BB	357	C	C5-C6-N1	-10.84	115.58	121.00
26	BB	704	G	C8-N9-C4	-10.84	102.07	106.40
1	AA	260	G	C5-C6-N1	10.83	116.92	111.50
26	BB	890	C	C2-N3-C4	10.83	125.31	119.90
26	BB	1197	G	C4-C5-N7	10.83	115.13	110.80
26	BB	496	G	C2-N3-C4	10.83	117.31	111.90
26	BB	2095	A	N9-C4-C5	10.83	110.13	105.80
26	BB	939	G	C5-C6-O6	-10.83	122.10	128.60
1	AA	73	C	O4'-C1'-N1	10.82	116.86	108.20
1	AA	281	G	C8-N9-C4	-10.82	102.07	106.40
26	BB	2437	G	N3-C4-C5	-10.82	123.19	128.60
1	AA	74	A	O4'-C1'-N9	10.82	116.86	108.20
1	AA	671	G	C4-C5-N7	-10.82	106.47	110.80
15	AO	55	ARG	NE-CZ-NH1	10.82	125.71	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	507	A	N1-C2-N3	-10.82	123.89	129.30
26	BB	1045	C	N1-C2-O2	10.82	125.39	118.90
26	BB	1652	A	C2-N3-C4	10.82	116.01	110.60
26	BB	810	U	C5-C6-N1	-10.82	117.29	122.70
26	BB	2546	U	C5-C6-N1	-10.82	117.29	122.70
26	BB	1323	C	O4'-C1'-N1	10.81	116.85	108.20
26	BB	1436	G	N9-C4-C5	10.81	109.72	105.40
1	AA	393	A	C8-N9-C4	-10.81	101.47	105.80
26	BB	2106	U	N3-C4-O4	10.81	126.97	119.40
26	BB	836	G	C2-N3-C4	10.81	117.31	111.90
26	BB	1065	U	N3-C2-O2	-10.81	114.63	122.20
26	BB	1631	G	C4-C5-N7	-10.81	106.48	110.80
26	BB	187	G	N9-C4-C5	10.81	109.72	105.40
26	BB	1183	U	O4'-C1'-N1	10.81	116.85	108.20
26	BB	1655	A	N9-C4-C5	-10.81	101.48	105.80
26	BB	2277	G	C5-C6-O6	-10.80	122.12	128.60
26	BB	91	A	O4'-C1'-N9	10.80	116.84	108.20
26	BB	827	U	C6-N1-C2	-10.80	114.52	121.00
26	BB	1013	C	O4'-C1'-N1	10.80	116.84	108.20
1	AA	1432	G	N3-C4-C5	-10.80	123.20	128.60
26	BB	146	A	C4-C5-N7	-10.80	105.30	110.70
26	BB	696	G	C5-C6-N1	10.80	116.90	111.50
26	BB	2376	A	N7-C8-N9	10.80	119.20	113.80
49	BY	38	ARG	NE-CZ-NH2	-10.80	114.90	120.30
1	AA	1530	G	C2-N3-C4	10.79	117.30	111.90
26	BB	640	C	N3-C4-N4	10.79	125.56	118.00
1	AA	217	C	O4'-C1'-N1	10.79	116.83	108.20
1	AA	317	U	N3-C2-O2	-10.79	114.64	122.20
26	BB	1636	U	O4'-C1'-N1	10.79	116.83	108.20
1	AA	241	G	C5-N7-C8	10.79	109.69	104.30
26	BB	1912	A	O4'-C1'-N9	10.79	116.83	108.20
26	BB	2584	U	O4'-C1'-N1	10.79	116.83	108.20
3	AC	39	U	N3-C2-O2	-10.79	114.65	122.20
1	AA	1483	A	N1-C6-N6	-10.78	112.13	118.60
26	BB	1343	G	C5-C6-O6	-10.79	122.13	128.60
1	AA	171	A	N1-C2-N3	-10.78	123.91	129.30
1	AA	212	G	N3-C4-C5	-10.78	123.21	128.60
1	AA	467	U	O4'-C1'-N1	10.78	116.83	108.20
1	AA	686	U	C3'-C2'-C1'	-10.78	92.87	101.50
26	BB	976	G	N7-C8-N9	10.78	118.49	113.10
26	BB	1576	U	O4'-C1'-N1	10.78	116.83	108.20
26	BB	2250	G	N9-C4-C5	10.78	109.71	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	575	G	C8-N9-C4	-10.78	102.09	106.40
26	BB	685	A	C2-N3-C4	10.78	115.99	110.60
26	BB	1519	G	O4'-C1'-N9	10.78	116.82	108.20
26	BB	1868	C	N1-C2-O2	10.78	125.36	118.90
1	AA	297	G	C8-N9-C4	-10.77	102.09	106.40
26	BB	828	U	C2-N3-C4	-10.77	120.54	127.00
26	BB	838	C	O4'-C1'-N1	10.77	116.82	108.20
26	BB	977	G	N1-C6-O6	10.77	126.36	119.90
26	BB	1542	U	C5-C6-N1	-10.77	117.31	122.70
26	BB	1276	A	N3-C4-N9	-10.77	118.78	127.40
26	BB	2624	G	C5-N7-C8	-10.77	98.91	104.30
44	BT	68	ARG	NE-CZ-NH2	10.77	125.69	120.30
1	AA	887	G	N1-C6-O6	-10.77	113.44	119.90
15	AO	98	ARG	NE-CZ-NH1	10.77	125.68	120.30
26	BB	2782	G	N3-C4-N9	-10.77	119.54	126.00
1	AA	227	G	C6-C5-N7	10.77	136.86	130.40
26	BB	751	A	C3'-C2'-C1'	10.77	110.11	101.50
1	AA	615	G	C5-C6-O6	-10.76	122.14	128.60
26	BB	334	C	N3-C4-C5	-10.76	117.59	121.90
26	BB	943	A	N1-C6-N6	-10.76	112.14	118.60
26	BB	2266	A	N1-C6-N6	-10.76	112.14	118.60
3	AC	24	A	N7-C8-N9	-10.76	108.42	113.80
26	BB	2196	C	N3-C4-C5	-10.76	117.60	121.90
1	AA	788	U	C5'-C4'-O4'	10.76	122.01	109.10
1	AA	1485	U	O4'-C1'-N1	10.76	116.81	108.20
1	AA	1183	U	C5-C4-O4	10.76	132.35	125.90
26	BB	1706	C	N1-C2-O2	10.76	125.35	118.90
48	BX	93	ARG	NE-CZ-NH1	10.76	125.68	120.30
25	BA	90	C	N3-C4-C5	-10.75	117.60	121.90
26	BB	1468	U	C5-C6-N1	-10.75	117.32	122.70
26	BB	1837	C	O4'-C1'-N1	10.75	116.80	108.20
26	BB	2244	U	N1-C2-O2	10.75	130.33	122.80
26	BB	1930	G	C8-N9-C4	-10.75	102.10	106.40
1	AA	1227	A	O4'-C1'-N9	10.75	116.80	108.20
26	BB	784	G	C2-N3-C4	10.75	117.27	111.90
1	AA	241	G	C2-N3-C4	10.75	117.27	111.90
13	AM	45	ARG	NE-CZ-NH2	-10.75	114.93	120.30
26	BB	248	G	C5-N7-C8	-10.75	98.93	104.30
26	BB	515	A	C5-C6-N1	-10.75	112.33	117.70
26	BB	567	U	N3-C4-O4	10.75	126.92	119.40
26	BB	960	A	N1-C6-N6	10.75	125.05	118.60
26	BB	1186	G	C8-N9-C4	-10.75	102.10	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1317	G	C8-N9-C4	-10.75	102.10	106.40
1	AA	1241	G	C5-C6-O6	-10.74	122.15	128.60
1	AA	1280	A	C8-N9-C4	-10.74	101.50	105.80
26	BB	134	G	N1-C6-O6	10.74	126.35	119.90
26	BB	1950	G	O4'-C1'-N9	10.74	116.80	108.20
1	AA	881	G	C6-N1-C2	-10.74	118.65	125.10
26	BB	373	U	O4'-C1'-N1	10.74	116.79	108.20
26	BB	803	U	N1-C2-O2	10.74	130.32	122.80
26	BB	1131	G	N3-C4-N9	10.74	132.45	126.00
26	BB	1386	C	N1-C2-O2	10.74	125.35	118.90
26	BB	2229	U	C5-C6-N1	-10.74	117.33	122.70
1	AA	762	U	N3-C2-O2	10.74	129.72	122.20
26	BB	1906	G	N9-C4-C5	-10.74	101.10	105.40
1	AA	1204	A	N1-C2-N3	-10.74	123.93	129.30
1	AA	570	G	N7-C8-N9	10.74	118.47	113.10
26	BB	2360	G	N7-C8-N9	10.74	118.47	113.10
26	BB	2704	C	O4'-C1'-N1	10.73	116.79	108.20
26	BB	2634	A	O4'-C1'-N9	10.73	116.79	108.20
28	BD	176	ARG	NE-CZ-NH2	-10.73	114.93	120.30
26	BB	795	C	N3-C2-O2	-10.73	114.39	121.90
1	AA	89	U	C6-N1-C2	-10.73	114.56	121.00
25	BA	10	G	N9-C4-C5	10.73	109.69	105.40
26	BB	496	G	N1-C2-N3	-10.72	117.47	123.90
26	BB	547	A	C5-N7-C8	10.72	109.26	103.90
1	AA	1231	G	N3-C4-C5	-10.72	123.24	128.60
25	BA	43	C	O4'-C1'-N1	10.72	116.77	108.20
26	BB	315	G	C2-N3-C4	10.72	117.26	111.90
26	BB	1017	G	C6-C5-N7	-10.72	123.97	130.40
26	BB	1290	C	N3-C4-C5	-10.72	117.61	121.90
26	BB	2782	G	C4-C5-N7	-10.72	106.51	110.80
26	BB	2133	G	N1-C6-O6	-10.72	113.47	119.90
26	BB	2243	U	C2-N3-C4	-10.72	120.57	127.00
26	BB	2795	C	N3-C4-C5	-10.72	117.61	121.90
1	AA	9	G	N7-C8-N9	10.71	118.46	113.10
1	AA	35	G	C4-C5-N7	-10.71	106.51	110.80
1	AA	240	G	C5-N7-C8	10.71	109.66	104.30
26	BB	1035	U	N3-C4-O4	10.71	126.90	119.40
26	BB	1687	G	N1-C2-N3	-10.71	117.47	123.90
26	BB	2253	G	N9-C4-C5	10.71	109.68	105.40
1	AA	741	G	C8-N9-C4	-10.70	102.12	106.40
2	AB	25	C	C2-N3-C4	10.71	125.25	119.90
4	AD	67	C	C6-N1-C2	10.71	124.58	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	29	G	N3-C2-N2	10.70	127.39	119.90
26	BB	823	C	C4-C5-C6	-10.71	112.05	117.40
26	BB	1769	U	O4'-C1'-N1	10.70	116.76	108.20
26	BB	55	G	N9-C4-C5	10.70	109.68	105.40
26	BB	250	G	C4-C5-N7	-10.70	106.52	110.80
26	BB	1052	C	C6-N1-C2	-10.70	116.02	120.30
26	BB	2632	A	C6-N1-C2	10.70	125.02	118.60
1	AA	931	C	C2-N3-C4	10.70	125.25	119.90
1	AA	1096	C	C6-N1-C2	-10.70	116.02	120.30
4	AD	37	U	C2-N3-C4	-10.70	120.58	127.00
26	BB	353	C	N3-C4-C5	10.69	126.18	121.90
26	BB	1535	A	C2-N3-C4	10.69	115.95	110.60
26	BB	2862	G	C8-N9-C4	-10.69	102.12	106.40
1	AA	945	G	N7-C8-N9	10.69	118.45	113.10
1	AA	1445	U	N1-C2-O2	10.69	130.28	122.80
26	BB	1395	A	N9-C4-C5	10.69	110.08	105.80
26	BB	663	G	C8-N9-C4	10.69	110.68	106.40
26	BB	1921	G	C5-C6-N1	10.69	116.84	111.50
26	BB	2549	G	N9-C4-C5	10.69	109.67	105.40
26	BB	1777	U	O4'-C1'-N1	10.69	116.75	108.20
26	BB	1927	A	N7-C8-N9	10.69	119.14	113.80
1	AA	635	A	O4'-C1'-N9	10.69	116.75	108.20
1	AA	1229	A	C4-C5-N7	-10.69	105.36	110.70
1	AA	1374	A	N1-C6-N6	-10.68	112.19	118.60
26	BB	101	A	C5-C6-N1	10.68	123.04	117.70
25	BA	97	C	N1-C2-O2	10.68	125.31	118.90
41	BQ	10	ARG	NE-CZ-NH2	10.68	125.64	120.30
26	BB	247	G	N7-C8-N9	10.68	118.44	113.10
26	BB	1946	U	C5-C6-N1	10.68	128.04	122.70
26	BB	2000	C	N3-C4-C5	-10.68	117.63	121.90
26	BB	1495	A	C4-C5-N7	10.68	116.04	110.70
26	BB	1776	G	C4-C5-N7	-10.68	106.53	110.80
26	BB	2096	C	O4'-C1'-N1	10.68	116.74	108.20
26	BB	539	G	C6-N1-C2	-10.67	118.69	125.10
1	AA	1180	A	N7-C8-N9	10.67	119.14	113.80
26	BB	1942	C	N1-C2-O2	10.67	125.30	118.90
26	BB	2719	G	N9-C4-C5	10.67	109.67	105.40
1	AA	486	U	N3-C2-O2	10.67	129.67	122.20
26	BB	27	G	O4'-C1'-N9	10.67	116.74	108.20
26	BB	625	G	C8-N9-C4	-10.67	102.13	106.40
25	BA	6	G	C2-N3-C4	10.67	117.23	111.90
1	AA	1427	C	N1-C2-O2	10.66	125.30	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	216	A	N1-C2-N3	-10.66	123.97	129.30
26	BB	904	G	N3-C4-C5	-10.66	123.27	128.60
26	BB	1750	G	O4'-C1'-N9	10.66	116.73	108.20
26	BB	2888	C	C3'-C2'-C1'	10.66	110.03	101.50
26	BB	24	G	C5-N7-C8	-10.66	98.97	104.30
26	BB	393	C	N3-C4-C5	10.66	126.16	121.90
26	BB	1478	G	N9-C4-C5	10.66	109.67	105.40
1	AA	644	U	C2-N3-C4	-10.66	120.61	127.00
1	AA	1522	U	O4'-C1'-N1	10.66	116.73	108.20
25	BA	102	G	C8-N9-C4	-10.66	102.14	106.40
26	BB	1579	A	C4-C5-N7	-10.66	105.37	110.70
26	BB	2100	G	C6-C5-N7	-10.66	124.00	130.40
1	AA	838	G	N9-C4-C5	10.65	109.66	105.40
26	BB	961	C	C6-N1-C2	10.65	124.56	120.30
1	AA	51	A	P-O3'-C3'	10.65	132.48	119.70
1	AA	853	C	N1-C2-O2	10.65	125.29	118.90
1	AA	1294	G	N1-C2-N3	10.65	130.29	123.90
25	BA	12	C	N3-C4-C5	-10.65	117.64	121.90
26	BB	247	G	C8-N9-C4	-10.65	102.14	106.40
26	BB	1171	G	C5-C6-N1	10.65	116.83	111.50
26	BB	1570	A	N1-C6-N6	10.65	124.99	118.60
1	AA	1470	U	N1-C2-N3	10.65	121.29	114.90
26	BB	982	C	N3-C4-C5	-10.65	117.64	121.90
26	BB	2571	U	P-O3'-C3'	10.65	132.48	119.70
26	BB	2675	A	N9-C4-C5	-10.65	101.54	105.80
1	AA	131	A	C8-N9-C4	-10.65	101.54	105.80
1	AA	225	C	C5-C4-N4	-10.65	112.75	120.20
2	AB	12	U	C2-N3-C4	-10.65	120.61	127.00
4	AD	31	G	O4'-C1'-N9	10.65	116.72	108.20
26	BB	221	A	N9-C4-C5	10.65	110.06	105.80
26	BB	1615	C	O4'-C1'-N1	10.65	116.72	108.20
1	AA	1478	U	C5-C4-O4	10.65	132.29	125.90
26	BB	883	G	C5-N7-C8	-10.65	98.98	104.30
26	BB	464	U	N3-C4-O4	10.64	126.85	119.40
26	BB	755	U	N3-C4-C5	-10.64	108.21	114.60
26	BB	1722	A	C2-N3-C4	10.64	115.92	110.60
26	BB	2264	C	O4'-C1'-N1	10.64	116.72	108.20
1	AA	774	G	N9-C4-C5	-10.64	101.14	105.40
26	BB	2347	C	N3-C4-C5	-10.64	117.64	121.90
26	BB	2091	C	O4'-C1'-N1	10.64	116.71	108.20
26	BB	1832	C	C6-N1-C2	-10.64	116.05	120.30
26	BB	122	G	N3-C4-N9	10.64	132.38	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1875	G	C4'-C3'-C2'	-10.64	91.96	102.60
1	AA	397	A	N9-C4-C5	-10.63	101.55	105.80
1	AA	785	G	N3-C2-N2	-10.63	112.46	119.90
26	BB	1899	A	N9-C4-C5	10.64	110.05	105.80
1	AA	734	G	C8-N9-C4	-10.63	102.15	106.40
26	BB	837	C	N1-C2-O2	10.63	125.28	118.90
30	BF	117	ARG	NE-CZ-NH2	-10.63	114.98	120.30
1	AA	148	G	C2-N3-C4	10.63	117.22	111.90
26	BB	1602	U	C5-C6-N1	-10.63	117.39	122.70
26	BB	2326	C	N3-C4-C5	-10.63	117.65	121.90
1	AA	862	C	N3-C4-C5	-10.62	117.65	121.90
26	BB	1020	A	C2-N3-C4	10.62	115.91	110.60
26	BB	1252	G	N3-C4-N9	10.62	132.38	126.00
26	BB	2048	G	C6-C5-N7	10.62	136.77	130.40
26	BB	2268	A	C5'-C4'-O4'	10.62	121.85	109.10
26	BB	2531	A	O4'-C1'-N9	10.62	116.70	108.20
1	AA	195	A	C4-C5-C6	10.62	122.31	117.00
1	AA	1074	G	C8-N9-C4	-10.62	102.15	106.40
26	BB	518	G	N7-C8-N9	10.62	118.41	113.10
26	BB	1490	A	C4-C5-C6	-10.62	111.69	117.00
26	BB	2223	G	O4'-C4'-C3'	10.62	114.62	104.00
26	BB	2368	C	O4'-C1'-N1	10.62	116.69	108.20
1	AA	1448	C	N3-C4-N4	10.62	125.43	118.00
1	AA	135	C	N3-C4-C5	-10.62	117.65	121.90
26	BB	3	U	N3-C2-O2	-10.62	114.77	122.20
26	BB	2810	A	N9-C4-C5	10.62	110.05	105.80
26	BB	2115	G	N9-C1'-C2'	-10.61	100.20	114.00
1	AA	744	C	N3-C4-C5	-10.61	117.66	121.90
26	BB	282	A	C8-N9-C4	-10.61	101.56	105.80
1	AA	1320	C	O4'-C1'-N1	10.61	116.69	108.20
26	BB	407	G	C8-N9-C4	-10.61	102.16	106.40
54	B3	39	ARG	NE-CZ-NH2	-10.61	115.00	120.30
1	AA	155	A	C4-C5-C6	-10.60	111.70	117.00
1	AA	610	U	C2-N3-C4	-10.60	120.64	127.00
1	AA	981	U	C5-C6-N1	-10.60	117.40	122.70
26	BB	295	G	C8-N9-C4	-10.60	102.16	106.40
26	BB	2729	G	C2-N3-C4	10.60	117.20	111.90
1	AA	381	C	N1-C2-O2	10.60	125.26	118.90
1	AA	1285	A	C8-N9-C4	10.60	110.04	105.80
26	BB	2448	A	N7-C8-N9	10.60	119.10	113.80
1	AA	293	G	N7-C8-N9	10.60	118.40	113.10
26	BB	1186	G	N9-C4-C5	10.60	109.64	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1818	U	C5-C4-O4	-10.60	119.54	125.90
1	AA	1217	C	C3'-C2'-C1'	10.60	109.98	101.50
26	BB	1650	A	C4-C5-N7	-10.60	105.40	110.70
26	BB	2363	G	C6-N1-C2	-10.60	118.74	125.10
26	BB	990	A	N1-C6-N6	10.59	124.96	118.60
3	AC	38	G	C2-N3-C4	-10.59	106.60	111.90
26	BB	2027	G	N9-C4-C5	10.59	109.64	105.40
26	BB	1628	G	C5-N7-C8	10.59	109.59	104.30
1	AA	678	U	C5'-C4'-O4'	10.59	121.81	109.10
1	AA	682	G	C5-N7-C8	-10.59	99.01	104.30
26	BB	495	G	C8-N9-C4	-10.58	102.17	106.40
26	BB	1006	C	N3-C2-O2	-10.58	114.49	121.90
26	BB	1777	U	N1-C2-O2	10.58	130.21	122.80
26	BB	1812	U	C5-C4-O4	10.58	132.25	125.90
26	BB	1849	G	O4'-C1'-N9	10.58	116.67	108.20
4	AD	3	C	O4'-C1'-N1	10.58	116.67	108.20
26	BB	2243	U	N3-C2-O2	-10.58	114.79	122.20
1	AA	1204	A	N7-C8-N9	10.58	119.09	113.80
1	AA	1379	G	N3-C2-N2	-10.58	112.50	119.90
26	BB	21	A	C4-C5-C6	-10.58	111.71	117.00
26	BB	1854	A	N1-C2-N3	-10.58	124.01	129.30
26	BB	2339	C	N3-C4-C5	-10.58	117.67	121.90
26	BB	1091	G	N1-C2-N3	-10.57	117.56	123.90
26	BB	1345	C	N1-C2-O2	10.57	125.24	118.90
1	AA	42	G	C2-N3-C4	10.57	117.19	111.90
4	AD	66	C	N3-C4-N4	10.57	125.40	118.00
26	BB	848	C	C6-N1-C2	-10.57	116.07	120.30
26	BB	1476	U	C4-C5-C6	10.57	126.04	119.70
26	BB	115	C	O4'-C1'-N1	10.57	116.66	108.20
26	BB	1834	U	N1-C2-O2	10.57	130.20	122.80
26	BB	2112	G	C8-N9-C4	-10.57	102.17	106.40
26	BB	843	G	N3-C2-N2	-10.57	112.50	119.90
26	BB	529	A	N1-C6-N6	-10.56	112.26	118.60
26	BB	1868	C	N3-C2-O2	-10.56	114.50	121.90
25	BA	48	U	N3-C4-O4	10.56	126.79	119.40
26	BB	782	A	O4'-C1'-N9	10.56	116.65	108.20
26	BB	2501	C	N3-C4-C5	-10.56	117.67	121.90
1	AA	128	G	C5-C6-O6	-10.56	122.26	128.60
26	BB	1461	C	N3-C2-O2	-10.56	114.51	121.90
26	BB	1940	U	N3-C4-O4	10.56	126.79	119.40
26	BB	2518	A	C1'-O4'-C4'	-10.56	101.45	109.90
1	AA	560	A	C5-C6-N1	10.56	122.98	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	574	A	C2-N3-C4	10.56	115.88	110.60
26	BB	1031	G	C4-C5-N7	-10.56	106.58	110.80
26	BB	1743	G	C4-C5-C6	10.56	125.14	118.80
26	BB	1947	C	C2-N3-C4	-10.56	114.62	119.90
26	BB	2207	C	O4'-C1'-N1	10.56	116.65	108.20
26	BB	2490	G	N3-C2-N2	-10.56	112.51	119.90
1	AA	934	C	O4'-C1'-N1	10.55	116.64	108.20
25	BA	79	G	C4-C5-C6	10.55	125.13	118.80
26	BB	2756	U	C2-N3-C4	-10.55	120.67	127.00
1	AA	189	A	C6-C5-N7	-10.55	124.92	132.30
1	AA	347	G	N9-C4-C5	10.55	109.62	105.40
1	AA	1430	A	O4'-C1'-N9	10.55	116.64	108.20
25	BA	84	G	N3-C4-C5	-10.55	123.33	128.60
26	BB	1451	C	N1-C2-O2	10.55	125.23	118.90
26	BB	731	C	C2-N3-C4	-10.54	114.63	119.90
1	AA	1225	A	C8-N9-C4	-10.54	101.58	105.80
1	AA	1403	C	N1-C2-O2	10.54	125.22	118.90
26	BB	407	G	N9-C4-C5	10.54	109.62	105.40
26	BB	757	G	N7-C8-N9	10.54	118.37	113.10
26	BB	1234	U	O4'-C1'-N1	10.54	116.63	108.20
1	AA	107	G	C8-N9-C4	-10.54	102.19	106.40
1	AA	50	A	C5-N7-C8	-10.54	98.63	103.90
26	BB	712	G	C8-N9-C4	-10.53	102.19	106.40
26	BB	2228	G	C8-N9-C4	-10.54	102.19	106.40
26	BB	1620	G	C5-C6-O6	-10.53	122.28	128.60
26	BB	2723	C	O4'-C1'-N1	10.53	116.62	108.20
21	AU	5	ARG	NE-CZ-NH2	-10.53	115.03	120.30
26	BB	2319	G	C2-N3-C4	10.53	117.17	111.90
1	AA	912	C	C2-N3-C4	-10.53	114.64	119.90
25	BA	36	C	N1-C2-O2	10.53	125.22	118.90
26	BB	954	G	C8-N9-C4	-10.53	102.19	106.40
26	BB	2677	G	O4'-C1'-N9	10.53	116.62	108.20
1	AA	32	A	O4'-C1'-N9	10.52	116.62	108.20
1	AA	1101	A	O4'-C1'-N9	10.52	116.62	108.20
26	BB	1293	C	C4-C5-C6	10.52	122.66	117.40
26	BB	2652	C	O4'-C1'-N1	10.52	116.62	108.20
1	AA	145	G	O4'-C1'-N9	10.52	116.62	108.20
26	BB	2489	U	C3'-C2'-C1'	10.52	109.91	101.50
1	AA	913	A	O4'-C1'-N9	10.52	116.61	108.20
15	AO	53	ARG	NE-CZ-NH2	-10.52	115.04	120.30
26	BB	773	U	C5-C4-O4	-10.52	119.59	125.90
26	BB	2846	G	C6-C5-N7	-10.52	124.09	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	408	A	C8-N9-C4	-10.51	101.59	105.80
1	AA	1169	A	C4-C5-N7	-10.51	105.44	110.70
26	BB	108	G	O4'-C1'-N9	10.51	116.61	108.20
1	AA	861	G	N9-C4-C5	10.51	109.61	105.40
26	BB	2841	C	C6-N1-C2	10.51	124.50	120.30
26	BB	1400	U	O4'-C1'-N1	10.51	116.61	108.20
1	AA	430	A	N1-C2-N3	10.51	134.55	129.30
1	AA	1083	U	C3'-C2'-C1'	10.51	109.90	101.50
26	BB	286	U	O4'-C1'-N1	10.51	116.61	108.20
26	BB	1168	G	O4'-C1'-N9	10.51	116.61	108.20
26	BB	1309	G	C5-C6-O6	-10.51	122.30	128.60
26	BB	1581	G	C8-N9-C4	-10.51	102.20	106.40
26	BB	2553	G	C2-N3-C4	10.51	117.15	111.90
3	AC	29	G	C5-C6-N1	10.50	116.75	111.50
26	BB	2359	C	C5-C6-N1	10.50	126.25	121.00
1	AA	628	G	C8-N9-C4	-10.50	102.20	106.40
26	BB	140	C	C5-C6-N1	10.50	126.25	121.00
26	BB	2646	C	C2-N3-C4	10.50	125.15	119.90
1	AA	129	A	C6-N1-C2	-10.50	112.30	118.60
1	AA	553	A	N1-C6-N6	-10.50	112.30	118.60
1	AA	1089	G	C2-N3-C4	-10.50	106.65	111.90
26	BB	1262	A	C8-N9-C4	-10.50	101.60	105.80
26	BB	1366	A	N9-C4-C5	10.50	110.00	105.80
26	BB	1643	G	O4'-C1'-N9	10.50	116.60	108.20
1	AA	1509	C	O4'-C1'-N1	10.50	116.60	108.20
26	BB	922	C	O4'-C1'-N1	10.50	116.60	108.20
26	BB	1118	C	O4'-C1'-N1	10.50	116.60	108.20
26	BB	1144	A	C8-N9-C4	-10.50	101.60	105.80
26	BB	1223	G	N1-C2-N3	-10.50	117.60	123.90
26	BB	2130	U	N3-C2-O2	-10.50	114.85	122.20
50	BZ	27	ARG	NE-CZ-NH2	-10.50	115.05	120.30
1	AA	721	G	C5-N7-C8	10.49	109.55	104.30
1	AA	1375	A	N7-C8-N9	10.49	119.05	113.80
26	BB	1057	A	N9-C4-C5	-10.49	101.60	105.80
26	BB	1751	U	O4'-C1'-N1	10.49	116.59	108.20
1	AA	558	G	N9-C4-C5	10.49	109.60	105.40
1	AA	1347	G	P-O3'-C3'	10.49	132.29	119.70
26	BB	2607	G	C2-N3-C4	10.49	117.15	111.90
1	AA	1361	G	C8-N9-C4	-10.49	102.20	106.40
26	BB	561	G	O4'-C1'-N9	10.49	116.59	108.20
26	BB	2428	G	N3-C4-C5	-10.49	123.36	128.60
26	BB	2682	A	C2-N3-C4	10.49	115.84	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	865	A	N9-C4-C5	10.48	109.99	105.80
1	AA	1350	A	N9-C4-C5	10.48	109.99	105.80
25	BA	12	C	N3-C4-N4	10.48	125.34	118.00
26	BB	1663	G	C4-C5-N7	-10.48	106.61	110.80
26	BB	1940	U	N3-C4-C5	-10.48	108.31	114.60
26	BB	2053	G	C8-N9-C4	-10.48	102.21	106.40
26	BB	2224	G	C8-N9-C4	-10.48	102.21	106.40
26	BB	1714	U	C4-C5-C6	10.48	125.99	119.70
1	AA	1216	A	N1-C2-N3	10.48	134.54	129.30
26	BB	1475	G	N7-C8-N9	10.48	118.34	113.10
26	BB	1813	G	C3'-C2'-C1'	10.48	109.88	101.50
26	BB	2536	G	C8-N9-C4	-10.48	102.21	106.40
26	BB	755	U	C4-C5-C6	10.47	125.98	119.70
1	AA	396	C	N3-C4-N4	10.47	125.33	118.00
26	BB	2705	A	O4'-C1'-N9	10.47	116.58	108.20
1	AA	9	G	C8-N9-C4	-10.47	102.21	106.40
1	AA	47	C	O4'-C1'-N1	10.47	116.58	108.20
1	AA	384	G	C5-C6-N1	10.47	116.73	111.50
26	BB	836	G	C4-C5-N7	-10.47	106.61	110.80
33	BI	116	ARG	NE-CZ-NH2	-10.47	115.06	120.30
2	AB	38	A	O4'-C1'-N9	10.47	116.58	108.20
1	AA	350	G	O4'-C4'-C3'	10.46	114.47	106.10
26	BB	1532	A	C4-C5-C6	-10.46	111.77	117.00
26	BB	1688	U	N3-C4-O4	10.46	126.73	119.40
26	BB	2685	G	C5-C6-N1	10.47	116.73	111.50
26	BB	2798	U	N1-C2-N3	10.47	121.18	114.90
1	AA	515	G	N1-C6-O6	-10.46	113.62	119.90
3	AC	50	U	N3-C2-O2	-10.46	114.88	122.20
1	AA	1144	G	C3'-C2'-C1'	10.46	109.87	101.50
26	BB	331	C	N3-C2-O2	-10.46	114.58	121.90
1	AA	319	G	N7-C8-N9	10.46	118.33	113.10
26	BB	2450	A	N1-C6-N6	10.46	124.87	118.60
28	BD	247	TRP	CD1-CG-CD2	-10.46	97.93	106.30
1	AA	1266	G	N3-C4-C5	-10.46	123.37	128.60
1	AA	1365	G	N3-C4-C5	-10.46	123.37	128.60
26	BB	2561	U	N3-C2-O2	-10.45	114.89	122.20
2	AB	52	A	C1'-O4'-C4'	10.45	118.26	109.90
4	AD	12	G	N7-C8-N9	10.45	118.33	113.10
26	BB	836	G	C8-N9-C4	-10.45	102.22	106.40
26	BB	1091	G	N9-C4-C5	-10.45	101.22	105.40
26	BB	1239	G	C5'-C4'-O4'	10.45	121.64	109.10
26	BB	1080	A	O4'-C1'-N9	10.45	116.56	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2346	A	N7-C8-N9	10.45	119.02	113.80
4	AD	44	A	O4'-C1'-N9	10.45	116.56	108.20
26	BB	1461	C	C5-C6-N1	10.45	126.22	121.00
25	BA	112	G	N3-C4-C5	-10.44	123.38	128.60
26	BB	82	U	C5-C6-N1	-10.44	117.48	122.70
26	BB	312	G	C6-C5-N7	-10.44	124.14	130.40
26	BB	713	G	C5'-C4'-O4'	10.44	121.63	109.10
26	BB	1127	A	C2-N3-C4	10.44	115.82	110.60
4	AD	70	C	N3-C4-N4	10.44	125.31	118.00
26	BB	273	G	O4'-C1'-N9	10.44	116.55	108.20
26	BB	1456	G	C5-C6-O6	-10.44	122.34	128.60
1	AA	1181	G	C4-C5-C6	10.44	125.06	118.80
26	BB	1596	A	C2-N3-C4	10.44	115.82	110.60
1	AA	1365	G	N9-C4-C5	10.44	109.58	105.40
1	AA	1014	A	N9-C4-C5	10.44	109.97	105.80
1	AA	1422	G	C8-N9-C4	-10.44	102.23	106.40
26	BB	2214	C	O4'-C1'-N1	10.44	116.55	108.20
1	AA	67	C	C3'-C2'-C1'	10.43	109.85	101.50
1	AA	116	A	C8-N9-C4	-10.43	101.63	105.80
1	AA	829	G	C2-N3-C4	10.43	117.12	111.90
26	BB	355	U	N3-C4-O4	10.43	126.70	119.40
26	BB	2374	C	C4-C5-C6	-10.43	112.18	117.40
1	AA	326	G	N1-C2-N3	-10.43	117.64	123.90
1	AA	533	A	C5-C6-N6	-10.43	115.36	123.70
26	BB	1406	U	N3-C2-O2	-10.43	114.90	122.20
1	AA	875	U	O4'-C1'-N1	10.42	116.54	108.20
26	BB	1861	G	C8-N9-C4	-10.42	102.23	106.40
1	AA	410	G	C4'-C3'-C2'	-10.42	92.18	102.60
26	BB	1781	U	O4'-C1'-N1	10.42	116.54	108.20
26	BB	1808	A	N9-C4-C5	-10.42	101.63	105.80
43	BS	57	ARG	NE-CZ-NH2	-10.42	115.09	120.30
1	AA	1504	G	C8-N9-C4	-10.42	102.23	106.40
26	BB	1968	G	C5-C6-N1	10.42	116.71	111.50
26	BB	2023	C	C5-C6-N1	-10.42	115.79	121.00
26	BB	2275	C	C5-C6-N1	10.42	126.21	121.00
26	BB	2616	C	C2-N3-C4	10.42	125.11	119.90
1	AA	107	G	N1-C6-O6	-10.41	113.65	119.90
1	AA	119	A	N1-C2-N3	-10.41	124.09	129.30
26	BB	577	G	C6-N1-C2	-10.41	118.85	125.10
1	AA	404	G	C5-N7-C8	10.41	109.51	104.30
1	AA	502	A	C8-N9-C4	-10.41	101.64	105.80
1	AA	1468	A	N9-C4-C5	10.41	109.97	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1149	G	C2-N3-C4	10.41	117.11	111.90
26	BB	2150	C	N3-C4-C5	-10.41	117.73	121.90
1	AA	506	G	O4'-C1'-N9	10.41	116.53	108.20
12	AL	123	ARG	NE-CZ-NH1	10.41	125.51	120.30
26	BB	1248	G	C6-N1-C2	-10.41	118.85	125.10
26	BB	1850	G	C2-N3-C4	10.41	117.11	111.90
26	BB	1307	A	N9-C4-C5	-10.41	101.64	105.80
26	BB	1579	A	C5-N7-C8	10.41	109.10	103.90
1	AA	683	G	C8-N9-C4	-10.40	102.24	106.40
1	AA	1035	A	C8-N9-C4	-10.40	101.64	105.80
10	AJ	91	ARG	NE-CZ-NH1	-10.40	115.10	120.30
26	BB	642	U	C5-C4-O4	10.40	132.14	125.90
26	BB	1250	G	C8-N9-C4	-10.40	102.24	106.40
26	BB	2084	C	N3-C4-C5	10.40	126.06	121.90
26	BB	2337	G	C6-N1-C2	-10.40	118.86	125.10
26	BB	2604	U	C5-C4-O4	10.40	132.14	125.90
1	AA	4	U	N3-C4-C5	-10.40	108.36	114.60
1	AA	44	A	C4-C5-C6	10.40	122.20	117.00
1	AA	575	G	N3-C4-N9	-10.40	119.76	126.00
1	AA	442	G	N9-C4-C5	10.40	109.56	105.40
1	AA	763	G	N9-C4-C5	10.40	109.56	105.40
1	AA	1138	G	O4'-C1'-N9	10.40	116.52	108.20
26	BB	1906	G	C4-C5-N7	10.40	114.96	110.80
26	BB	2219	U	C2-N3-C4	-10.40	120.76	127.00
1	AA	423	G	C5-C6-N1	10.40	116.70	111.50
26	BB	141	G	N9-C4-C5	10.40	109.56	105.40
26	BB	1844	C	C5-C6-N1	10.40	126.20	121.00
34	BJ	137	ARG	NE-CZ-NH1	10.40	125.50	120.30
1	AA	909	A	N9-C4-C5	10.39	109.96	105.80
1	AA	1316	G	N3-C4-C5	-10.39	123.40	128.60
26	BB	1924	C	C6-N1-C2	-10.39	116.14	120.30
1	AA	402	G	N1-C2-N2	-10.39	106.85	116.20
1	AA	1427	C	N3-C2-O2	-10.39	114.62	121.90
26	BB	2447	G	C8-N9-C4	-10.39	102.24	106.40
1	AA	354	G	N1-C2-N3	10.39	130.13	123.90
26	BB	2643	G	N3-C4-C5	-10.39	123.41	128.60
41	BQ	9	ARG	NE-CZ-NH2	-10.39	115.10	120.30
1	AA	1143	G	C2-N3-C4	10.39	117.09	111.90
1	AA	1051	C	C5-C6-N1	10.39	126.19	121.00
26	BB	1853	A	N9-C4-C5	-10.39	101.64	105.80
26	BB	2290	G	C8-N9-C4	-10.39	102.25	106.40
1	AA	1496	C	N3-C4-C5	10.38	126.05	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	27	C	C1'-O4'-C4'	-10.38	101.59	109.90
26	BB	308	G	C8-N9-C4	-10.38	102.25	106.40
26	BB	1594	U	O4'-C1'-N1	10.38	116.51	108.20
1	AA	1458	G	N7-C8-N9	10.38	118.29	113.10
26	BB	1521	G	C2-N3-C4	10.38	117.09	111.90
26	BB	2351	G	C2-N3-C4	10.38	117.09	111.90
26	BB	1675	C	O4'-C1'-N1	10.38	116.50	108.20
26	BB	2530	A	O4'-C4'-C3'	-10.38	93.62	104.00
26	BB	26	G	N3-C4-C5	-10.37	123.41	128.60
26	BB	185	G	N7-C8-N9	-10.38	107.91	113.10
26	BB	774	G	O4'-C1'-N9	10.38	116.50	108.20
26	BB	1739	A	N7-C8-N9	10.38	118.99	113.80
1	AA	26	A	O4'-C4'-C3'	10.37	114.40	106.10
1	AA	1415	G	C6-N1-C2	-10.37	118.88	125.10
26	BB	496	G	C4-C5-N7	-10.37	106.65	110.80
26	BB	2026	U	O4'-C1'-N1	10.37	116.50	108.20
26	BB	2053	G	C5'-C4'-O4'	10.37	121.54	109.10
26	BB	2690	U	O4'-C1'-N1	10.37	116.50	108.20
2	AB	49	G	C2-N3-C4	10.37	117.08	111.90
26	BB	128	C	C2-N3-C4	-10.37	114.72	119.90
26	BB	2475	C	N3-C2-O2	-10.37	114.64	121.90
26	BB	1675	C	C2-N3-C4	10.36	125.08	119.90
1	AA	558	G	C8-N9-C4	-10.36	102.25	106.40
26	BB	711	G	O4'-C1'-N9	10.36	116.49	108.20
3	AC	57	C	N3-C4-C5	-10.36	117.75	121.90
26	BB	814	C	N3-C4-C5	-10.36	117.75	121.90
26	BB	1721	G	O4'-C1'-N9	10.36	116.49	108.20
1	AA	51	A	N9-C4-C5	10.36	109.94	105.80
26	BB	1853	A	C8-N9-C4	10.36	109.94	105.80
4	AD	71	G	C5-N7-C8	-10.36	99.12	104.30
26	BB	2454	G	N7-C8-N9	10.36	118.28	113.10
1	AA	462	G	O4'-C4'-C3'	10.36	114.38	106.10
1	AA	976	G	C8-N9-C4	-10.36	102.26	106.40
1	AA	1496	C	C4-C5-C6	-10.36	112.22	117.40
26	BB	341	C	N3-C4-C5	-10.36	117.76	121.90
26	BB	731	C	C6-N1-C2	-10.36	116.16	120.30
26	BB	2708	G	N9-C4-C5	10.36	109.54	105.40
26	BB	2715	C	C2-N3-C4	10.36	125.08	119.90
26	BB	2777	G	C2-N3-C4	10.36	117.08	111.90
25	BA	82	U	C5-C6-N1	-10.35	117.52	122.70
26	BB	787	C	C5-C4-N4	-10.35	112.95	120.20
1	AA	800	G	O4'-C1'-N9	-10.35	99.92	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2175	C	O4'-C1'-N1	10.35	116.48	108.20
1	AA	108	G	N7-C8-N9	10.35	118.28	113.10
1	AA	172	A	N1-C2-N3	-10.35	124.13	129.30
26	BB	717	C	N3-C2-O2	-10.35	114.66	121.90
26	BB	2465	C	C5-C6-N1	10.35	126.17	121.00
26	BB	2902	C	O4'-C1'-N1	10.35	116.48	108.20
42	BR	38	ARG	NE-CZ-NH2	10.35	125.47	120.30
1	AA	852	G	N9-C1'-C2'	-10.35	100.55	114.00
26	BB	1091	G	N3-C2-N2	10.35	127.14	119.90
26	BB	2035	G	N3-C4-C5	-10.35	123.43	128.60
1	AA	1433	A	C8-N9-C4	-10.35	101.66	105.80
26	BB	65	U	C6-N1-C2	-10.35	114.79	121.00
26	BB	1195	G	N3-C4-N9	10.35	132.21	126.00
26	BB	1416	G	N3-C4-C5	-10.35	123.43	128.60
26	BB	1371	G	C4-C5-N7	-10.34	106.66	110.80
1	AA	193	C	C2-N3-C4	10.34	125.07	119.90
1	AA	440	C	C4-C5-C6	-10.34	112.23	117.40
25	BA	115	A	C8-N9-C4	-10.34	101.66	105.80
26	BB	905	A	C5-C6-N1	-10.34	112.53	117.70
26	BB	1829	A	O4'-C1'-N9	10.34	116.47	108.20
1	AA	1258	G	C8-N9-C4	-10.34	102.26	106.40
7	AG	183	ARG	NE-CZ-NH2	-10.34	115.13	120.30
26	BB	152	A	O4'-C1'-N9	10.34	116.47	108.20
25	BA	88	C	C5-C4-N4	-10.34	112.96	120.20
1	AA	550	G	O4'-C1'-N9	10.34	116.47	108.20
1	AA	728	A	C4-C5-C6	-10.34	111.83	117.00
25	BA	37	C	C2-N3-C4	10.34	125.07	119.90
1	AA	62	U	O4'-C1'-N1	10.33	116.47	108.20
1	AA	617	G	C5-N7-C8	-10.33	99.13	104.30
26	BB	478	A	N7-C8-N9	-10.33	108.63	113.80
26	BB	582	A	N9-C4-C5	10.33	109.93	105.80
26	BB	2325	G	N3-C4-C5	-10.33	123.43	128.60
26	BB	266	G	C5-C6-O6	-10.33	122.40	128.60
26	BB	412	A	C1'-O4'-C4'	10.33	118.17	109.90
1	AA	1514	G	C5-C6-N1	10.33	116.66	111.50
4	AD	1	C	C5-C6-N1	10.33	126.16	121.00
25	BA	96	G	C8-N9-C4	-10.33	102.27	106.40
26	BB	1117	C	N3-C2-O2	-10.33	114.67	121.90
26	BB	1593	A	O4'-C1'-N9	10.33	116.46	108.20
34	BJ	52	ARG	NE-CZ-NH2	-10.33	115.13	120.30
26	BB	80	G	O4'-C1'-N9	10.33	116.46	108.20
26	BB	1583	A	N1-C6-N6	10.33	124.80	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	630	A	N1-C6-N6	-10.33	112.40	118.60
1	AA	1020	G	O4'-C1'-N9	10.33	116.46	108.20
1	AA	1094	G	N7-C8-N9	10.33	118.26	113.10
26	BB	2702	G	C4'-C3'-C2'	-10.33	92.27	102.60
1	AA	1360	A	C6-C5-N7	10.32	139.53	132.30
3	AC	22	G	C2-N3-C4	10.32	117.06	111.90
26	BB	1424	G	O4'-C1'-N9	10.32	116.46	108.20
26	BB	1572	A	C8-N9-C4	-10.32	101.67	105.80
26	BB	2748	A	C4-C5-N7	-10.32	105.54	110.70
31	BG	124	ARG	NE-CZ-NH2	-10.32	115.14	120.30
26	BB	1673	G	C5-C6-O6	-10.32	122.41	128.60
26	BB	1815	A	N1-C2-N3	-10.32	124.14	129.30
26	BB	1972	G	N3-C4-N9	10.32	132.19	126.00
26	BB	2594	C	O4'-C1'-N1	10.32	116.45	108.20
1	AA	1118	U	N1-C2-O2	-10.32	115.58	122.80
26	BB	606	U	O4'-C1'-N1	10.32	116.45	108.20
26	BB	1328	A	C3'-C2'-C1'	10.32	109.75	101.50
26	BB	2804	U	C4-C5-C6	10.32	125.89	119.70
26	BB	894	U	O4'-C1'-N1	10.31	116.45	108.20
26	BB	1928	A	C4-C5-N7	-10.31	105.54	110.70
26	BB	134	G	N9-C4-C5	10.31	109.53	105.40
26	BB	346	A	N9-C1'-C2'	-10.31	100.59	114.00
1	AA	1517	G	C8-N9-C4	-10.31	102.28	106.40
26	BB	260	G	C2-N3-C4	10.31	117.06	111.90
26	BB	336	C	N1-C2-O2	10.31	125.09	118.90
26	BB	1090	A	C5-C6-N1	10.31	122.86	117.70
26	BB	1646	C	C2-N3-C4	10.31	125.06	119.90
26	BB	1743	G	C6-N1-C2	-10.31	118.91	125.10
26	BB	1767	G	C8-N9-C4	-10.31	102.28	106.40
26	BB	2298	A	C2-N3-C4	10.31	115.75	110.60
1	AA	1122	U	N3-C2-O2	-10.31	114.98	122.20
1	AA	319	G	C2-N3-C4	10.31	117.05	111.90
26	BB	2349	G	N3-C4-N9	10.31	132.18	126.00
1	AA	391	G	C8-N9-C4	-10.30	102.28	106.40
26	BB	1288	G	N1-C2-N2	-10.30	106.93	116.20
26	BB	1299	G	C4-C5-C6	10.30	124.98	118.80
26	BB	2327	A	C8-N9-C4	-10.30	101.68	105.80
26	BB	1882	U	O4'-C1'-N1	10.30	116.44	108.20
26	BB	2326	C	N3-C4-N4	10.30	125.21	118.00
35	BK	66	PHE	CB-CG-CD2	-10.30	113.59	120.80
1	AA	450	G	C8-N9-C4	-10.30	102.28	106.40
26	BB	2840	C	O4'-C1'-N1	10.30	116.44	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	717	U	N3-C2-O2	-10.30	114.99	122.20
26	BB	2308	G	N3-C4-C5	-10.30	123.45	128.60
26	BB	2571	U	O4'-C1'-N1	10.30	116.44	108.20
26	BB	2654	A	C4-C5-C6	-10.30	111.85	117.00
26	BB	2393	U	C1'-O4'-C4'	-10.30	101.66	109.90
1	AA	335	C	O4'-C1'-N1	10.30	116.44	108.20
26	BB	1846	G	N3-C4-C5	-10.30	123.45	128.60
1	AA	560	A	C6-C5-N7	10.29	139.51	132.30
1	AA	1111	A	N1-C2-N3	10.29	134.45	129.30
26	BB	1753	G	C6-N1-C2	-10.29	118.92	125.10
1	AA	903	G	C8-N9-C4	-10.29	102.28	106.40
1	AA	1076	U	N1-C2-O2	10.29	130.00	122.80
26	BB	1973	G	N1-C6-O6	-10.29	113.72	119.90
1	AA	549	C	C5'-C4'-O4'	10.29	121.45	109.10
1	AA	778	G	C4-C5-N7	-10.29	106.68	110.80
1	AA	1452	C	C5'-C4'-O4'	10.29	121.45	109.10
2	AB	70	C	N3-C4-N4	10.29	125.20	118.00
26	BB	91	A	C4-C5-C6	-10.29	111.86	117.00
26	BB	357	C	N3-C2-O2	-10.29	114.70	121.90
26	BB	1215	G	C4-C5-N7	10.29	114.92	110.80
26	BB	1216	G	C6-N1-C2	-10.29	118.93	125.10
26	BB	1824	G	N9-C4-C5	10.29	109.52	105.40
26	BB	2721	A	C8-N9-C4	10.29	109.92	105.80
26	BB	636	G	N9-C4-C5	-10.29	101.28	105.40
26	BB	818	G	N7-C8-N9	10.29	118.24	113.10
26	BB	1729	U	O4'-C1'-N1	10.29	116.43	108.20
26	BB	2438	U	C4-C5-C6	10.29	125.87	119.70
1	AA	871	U	C3'-C2'-C1'	-10.29	93.27	101.50
1	AA	1218	C	C6-N1-C2	-10.29	116.19	120.30
26	BB	1250	G	C5-N7-C8	-10.29	99.16	104.30
26	BB	1314	C	O4'-C1'-N1	10.29	116.43	108.20
26	BB	2510	C	N1-C2-O2	10.29	125.07	118.90
1	AA	1455	G	C2-N3-C4	10.28	117.04	111.90
1	AA	1018	G	N9-C4-C5	10.28	109.51	105.40
4	AD	1	C	N3-C2-O2	-10.28	114.70	121.90
1	AA	11	G	N3-C4-C5	-10.28	123.46	128.60
1	AA	413	G	C6-C5-N7	-10.28	124.23	130.40
46	BV	6	ARG	NE-CZ-NH1	10.28	125.44	120.30
1	AA	810	C	C4-C5-C6	-10.28	112.26	117.40
26	BB	192	C	N1-C2-O2	10.28	125.07	118.90
26	BB	213	A	C8-N9-C4	-10.28	101.69	105.80
1	AA	299	G	C2-N3-C4	10.28	117.04	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1886	U	C5-C6-N1	-10.28	117.56	122.70
25	BA	22	U	C1'-O4'-C4'	-10.27	101.68	109.90
26	BB	871	U	C5-C6-N1	-10.27	117.56	122.70
26	BB	1169	A	N9-C4-C5	10.27	109.91	105.80
26	BB	1711	A	C4-C5-C6	-10.27	111.86	117.00
26	BB	1907	G	C4-C5-N7	-10.27	106.69	110.80
26	BB	123	G	C4-C5-N7	10.27	114.91	110.80
26	BB	367	G	O4'-C1'-N9	10.27	116.42	108.20
26	BB	2654	A	N9-C4-C5	-10.27	101.69	105.80
5	AE	6	ARG	NE-CZ-NH1	-10.27	115.17	120.30
26	BB	1474	U	O4'-C1'-N1	10.27	116.42	108.20
26	BB	1816	C	C5'-C4'-O4'	10.27	121.42	109.10
26	BB	2749	A	C5'-C4'-O4'	10.27	121.42	109.10
26	BB	1997	C	O4'-C1'-N1	10.27	116.41	108.20
26	BB	2835	A	N9-C1'-C2'	10.27	127.34	114.00
1	AA	1243	C	C6-N1-C2	-10.26	116.19	120.30
26	BB	1193	G	N1-C2-N3	-10.26	117.74	123.90
26	BB	2481	G	O4'-C1'-N9	10.26	116.41	108.20
1	AA	839	C	N3-C2-O2	-10.26	114.72	121.90
26	BB	1014	A	N9-C4-C5	10.26	109.90	105.80
26	BB	1390	U	O4'-C1'-N1	10.26	116.41	108.20
26	BB	1668	A	O4'-C1'-N9	10.26	116.41	108.20
26	BB	2259	U	C6-N1-C2	-10.26	114.84	121.00
1	AA	555	U	C2-N3-C4	-10.26	120.85	127.00
26	BB	274	C	C4'-C3'-C2'	-10.26	92.34	102.60
26	BB	1354	A	O4'-C1'-N9	10.26	116.41	108.20
26	BB	1696	G	O4'-C1'-N9	10.26	116.41	108.20
26	BB	2837	A	N7-C8-N9	10.26	118.93	113.80
1	AA	642	A	C8-N9-C4	-10.25	101.70	105.80
1	AA	918	A	N9-C4-C5	10.25	109.90	105.80
3	AC	42	U	O4'-C1'-N1	10.25	116.40	108.20
26	BB	2838	G	C5-C6-O6	10.25	134.75	128.60
39	BO	18	ARG	NE-CZ-NH1	-10.25	115.17	120.30
26	BB	2269	G	N3-C4-N9	10.25	132.15	126.00
26	BB	2402	U	N3-C4-O4	10.25	126.58	119.40
1	AA	79	G	N7-C8-N9	10.25	118.22	113.10
1	AA	1156	G	N1-C6-O6	-10.25	113.75	119.90
1	AA	1445	U	N3-C2-O2	-10.25	115.03	122.20
1	AA	255	G	N3-C2-N2	-10.24	112.73	119.90
1	AA	647	C	C5-C6-N1	10.24	126.12	121.00
1	AA	985	C	N1-C2-O2	10.24	125.05	118.90
2	AB	73	G	C8-N9-C4	-10.24	102.30	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2411	A	C5'-C4'-O4'	10.24	121.39	109.10
25	BA	76	G	C8-N9-C4	-10.24	102.30	106.40
26	BB	544	C	O4'-C1'-N1	10.24	116.39	108.20
26	BB	608	A	O4'-C1'-N9	10.24	116.39	108.20
26	BB	2419	U	N3-C2-O2	-10.24	115.03	122.20
1	AA	79	G	C8-N9-C1'	10.24	140.31	127.00
4	AD	54	G	C2-N3-C4	10.24	117.02	111.90
26	BB	2009	A	N7-C8-N9	10.24	118.92	113.80
26	BB	2657	A	N3-C4-C5	10.24	133.97	126.80
1	AA	91	U	N1-C2-O2	10.23	129.96	122.80
26	BB	757	G	C5-N7-C8	-10.23	99.18	104.30
26	BB	1292	G	C2-N3-C4	10.23	117.02	111.90
26	BB	1344	U	C6-N1-C2	-10.23	114.86	121.00
26	BB	1820	U	C2-N3-C4	-10.23	120.86	127.00
26	BB	2702	G	C8-N9-C4	-10.23	102.31	106.40
1	AA	1257	A	N1-C6-N6	10.23	124.74	118.60
4	AD	6	G	C4-C5-N7	-10.23	106.71	110.80
26	BB	1175	A	C4-C5-C6	10.23	122.12	117.00
26	BB	2363	G	C8-N9-C4	-10.23	102.31	106.40
1	AA	541	G	O4'-C1'-N9	10.23	116.38	108.20
4	AD	22	A	C5'-C4'-O4'	10.23	121.38	109.10
26	BB	2616	C	N3-C4-C5	-10.23	117.81	121.90
26	BB	2771	C	N3-C2-O2	-10.23	114.74	121.90
4	AD	9	G	C5'-C4'-O4'	-10.23	96.83	109.10
26	BB	510	C	N3-C4-C5	-10.23	117.81	121.90
1	AA	705	G	C5-C6-N1	10.22	116.61	111.50
26	BB	507	A	C2-N3-C4	10.22	115.71	110.60
26	BB	814	C	O4'-C1'-N1	10.22	116.38	108.20
26	BB	2553	G	C8-N9-C4	-10.22	102.31	106.40
1	AA	1106	G	O4'-C1'-N9	10.22	116.38	108.20
26	BB	1250	G	C5-C6-N1	10.22	116.61	111.50
26	BB	2014	A	O4'-C1'-N9	10.22	116.38	108.20
1	AA	634	C	O4'-C1'-N1	10.22	116.37	108.20
1	AA	1204	A	C6-N1-C2	10.22	124.73	118.60
4	AD	48	U	C3'-C2'-C1'	-10.22	93.33	101.50
26	BB	625	G	N7-C8-N9	10.22	118.21	113.10
1	AA	117	G	C2-N3-C4	10.22	117.01	111.90
1	AA	1229	A	C5-N7-C8	10.21	109.01	103.90
26	BB	1026	G	N3-C4-N9	10.21	132.13	126.00
1	AA	692	U	C4-C5-C6	10.21	125.83	119.70
1	AA	782	A	C2-N3-C4	10.21	115.70	110.60
2	AB	45	U	C4-C5-C6	10.21	125.83	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	430	A	C5-N7-C8	-10.21	98.79	103.90
26	BB	2365	G	N7-C8-N9	10.21	118.20	113.10
26	BB	1927	A	C5-N7-C8	-10.21	98.80	103.90
26	BB	2578	G	O4'-C1'-N9	10.21	116.37	108.20
1	AA	278	G	N9-C1'-C2'	-10.21	100.73	114.00
1	AA	1001	C	N3-C2-O2	-10.21	114.75	121.90
26	BB	2110	G	C4-C5-C6	-10.21	112.67	118.80
26	BB	2572	A	C8-N9-C4	-10.21	101.72	105.80
26	BB	1699	G	O4'-C1'-N9	10.20	116.36	108.20
1	AA	340	U	C5-C4-O4	-10.20	119.78	125.90
1	AA	1068	G	C5-C6-O6	-10.20	122.48	128.60
26	BB	1051	G	O4'-C1'-N9	10.20	116.36	108.20
26	BB	1276	A	C6-C5-N7	10.20	139.44	132.30
26	BB	1998	A	C5-C6-N6	-10.20	115.54	123.70
37	BM	98	ARG	NE-CZ-NH2	-10.20	115.20	120.30
50	BZ	64	ASP	CB-CG-OD1	-10.20	109.12	118.30
26	BB	1433	A	C5-N7-C8	-10.20	98.80	103.90
12	AL	108	ARG	NE-CZ-NH1	10.20	125.40	120.30
26	BB	731	C	N3-C4-C5	10.20	125.98	121.90
26	BB	1855	U	O4'-C1'-N1	10.20	116.36	108.20
1	AA	1113	C	C6-N1-C2	-10.20	116.22	120.30
26	BB	1935	G	N9-C4-C5	10.20	109.48	105.40
1	AA	738	C	C2-N3-C4	10.19	125.00	119.90
1	AA	818	G	C3'-C2'-C1'	-10.19	93.35	101.50
4	AD	30	G	C2-N3-C4	10.19	117.00	111.90
26	BB	761	A	C2-N3-C4	10.19	115.69	110.60
1	AA	1441	A	C5-N7-C8	10.19	108.99	103.90
1	AA	768	A	N9-C4-C5	10.18	109.87	105.80
26	BB	356	G	C2-N3-C4	10.18	116.99	111.90
26	BB	1817	G	C8-N9-C4	10.18	110.47	106.40
25	BA	75	G	C5-N7-C8	-10.18	99.21	104.30
26	BB	2771	C	N1-C2-O2	10.18	125.01	118.90
1	AA	370	C	C2-N3-C4	-10.18	114.81	119.90
4	AD	22	A	N1-C6-N6	-10.18	112.49	118.60
25	BA	112	G	N9-C4-C5	10.18	109.47	105.40
26	BB	966	G	C8-N9-C4	-10.18	102.33	106.40
1	AA	1212	U	O4'-C1'-N1	10.17	116.34	108.20
4	AD	36	A	N9-C4-C5	10.17	109.87	105.80
26	BB	614	A	N7-C8-N9	-10.17	108.71	113.80
1	AA	1169	A	N1-C6-N6	-10.17	112.50	118.60
26	BB	637	A	C5-N7-C8	-10.17	98.81	103.90
45	BU	99	ARG	NE-CZ-NH2	-10.17	115.22	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	117	G	N1-C6-O6	-10.17	113.80	119.90
1	AA	748	G	C2-N3-C4	10.17	116.98	111.90
1	AA	1249	C	C2-N3-C4	-10.17	114.82	119.90
1	AA	1440	U	N3-C2-O2	-10.17	115.08	122.20
26	BB	1211	C	N1-C2-O2	10.17	125.00	118.90
26	BB	2895	G	N3-C2-N2	-10.17	112.78	119.90
26	BB	2183	A	C8-N9-C4	-10.16	101.73	105.80
26	BB	2657	A	N1-C2-N3	-10.16	124.22	129.30
1	AA	1234	C	N3-C4-N4	10.16	125.11	118.00
18	AR	71	ARG	NE-CZ-NH2	10.16	125.38	120.30
26	BB	511	U	O4'-C1'-N1	10.16	116.33	108.20
26	BB	2228	G	C6-N1-C2	-10.16	119.00	125.10
3	AC	36	U	O4'-C1'-N1	10.16	116.33	108.20
26	BB	249	C	C5-C4-N4	-10.16	113.09	120.20
26	BB	1171	G	C6-N1-C2	-10.16	119.00	125.10
26	BB	2360	G	O4'-C1'-N9	10.16	116.33	108.20
3	AC	47	C	C3'-C2'-C1'	-10.16	93.37	101.50
26	BB	2315	G	C5-C6-O6	-10.16	122.50	128.60
26	BB	2677	G	N1-C6-O6	-10.16	113.81	119.90
26	BB	1620	G	C6-N1-C2	-10.15	119.01	125.10
3	AC	33	A	C2-N3-C4	10.15	115.67	110.60
26	BB	2035	G	N9-C4-C5	10.15	109.46	105.40
7	AG	71	PHE	CB-CG-CD1	-10.15	113.69	120.80
26	BB	1704	C	C1'-O4'-C4'	-10.15	101.78	109.90
26	BB	1845	G	O4'-C1'-N9	10.15	116.32	108.20
26	BB	2136	G	C2-N3-C4	10.15	116.97	111.90
1	AA	374	A	C8-N9-C4	-10.15	101.74	105.80
1	AA	1046	A	C4-C5-N7	-10.15	105.63	110.70
26	BB	1382	G	N3-C4-C5	-10.15	123.53	128.60
1	AA	860	A	N1-C6-N6	-10.14	112.51	118.60
26	BB	1099	G	N7-C8-N9	10.14	118.17	113.10
26	BB	2314	A	C5-C6-N1	10.14	122.77	117.70
1	AA	1463	U	N1-C2-O2	-10.14	115.70	122.80
26	BB	2221	G	C6-C5-N7	-10.14	124.31	130.40
26	BB	2432	A	C4-C5-C6	-10.14	111.93	117.00
26	BB	201	C	C6-N1-C2	-10.14	116.24	120.30
26	BB	659	G	C2-N3-C4	10.14	116.97	111.90
1	AA	103	U	C3'-C2'-C1'	10.14	109.61	101.50
1	AA	503	C	N3-C4-C5	-10.14	117.84	121.90
1	AA	520	A	N9-C4-C5	10.14	109.86	105.80
1	AA	665	A	O4'-C1'-N9	10.14	116.31	108.20
1	AA	899	C	O4'-C1'-N1	10.14	116.31	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	102	G	C4-C5-N7	-10.14	106.75	110.80
26	BB	1950	G	O4'-C4'-C3'	10.14	114.21	106.10
26	BB	2554	U	C5-C6-N1	-10.14	117.63	122.70
1	AA	1381	U	N3-C2-O2	-10.14	115.11	122.20
26	BB	1142	A	C8-N9-C4	-10.14	101.75	105.80
26	BB	603	A	N7-C8-N9	10.13	118.87	113.80
26	BB	1655	A	C5-C6-N1	10.13	122.77	117.70
26	BB	1710	G	C1'-O4'-C4'	-10.14	101.79	109.90
26	BB	2310	C	N3-C4-N4	10.13	125.09	118.00
26	BB	2424	C	C4-C5-C6	-10.13	112.33	117.40
26	BB	889	C	N1-C2-O2	10.13	124.98	118.90
26	BB	1147	A	N7-C8-N9	10.13	118.87	113.80
26	BB	1929	G	C2-N3-C4	10.13	116.97	111.90
26	BB	2014	A	C8-N9-C4	-10.13	101.75	105.80
1	AA	1334	G	C5-C6-O6	-10.13	122.52	128.60
6	AF	126	ARG	NE-CZ-NH1	-10.13	115.24	120.30
26	BB	186	G	N3-C4-C5	-10.13	123.54	128.60
2	AB	67	G	N3-C4-C5	-10.13	123.54	128.60
1	AA	897	C	N1-C2-O2	10.12	124.97	118.90
1	AA	506	G	C8-N9-C4	-10.12	102.35	106.40
26	BB	493	G	C6-N1-C2	-10.12	119.03	125.10
1	AA	507	C	N3-C4-C5	-10.12	117.85	121.90
1	AA	703	G	C8-N9-C4	-10.12	102.35	106.40
1	AA	1176	A	N9-C4-C5	-10.12	101.75	105.80
24	AX	68	ARG	NE-CZ-NH2	-10.12	115.24	120.30
26	BB	153	U	N1-C2-N3	10.12	120.97	114.90
26	BB	1133	A	C4-C5-N7	-10.12	105.64	110.70
26	BB	986	C	C6-N1-C2	-10.12	116.25	120.30
26	BB	1339	G	N9-C4-C5	10.12	109.45	105.40
26	BB	2816	G	N3-C2-N2	-10.12	112.82	119.90
26	BB	2141	G	O4'-C1'-N9	10.12	116.29	108.20
3	AC	23	C	N3-C4-N4	10.11	125.08	118.00
26	BB	1382	G	C2-N3-C4	10.12	116.96	111.90
26	BB	2824	C	C2-N3-C4	10.11	124.96	119.90
1	AA	1044	A	C2-N3-C4	10.11	115.66	110.60
2	AB	5	G	C8-N9-C4	-10.11	102.36	106.40
5	AE	212	TYR	CB-CG-CD1	-10.11	114.93	121.00
26	BB	759	G	N9-C4-C5	10.11	109.44	105.40
26	BB	1011	G	O4'-C1'-N9	10.11	116.29	108.20
26	BB	1172	C	N1-C2-N3	-10.11	112.12	119.20
1	AA	325	A	O4'-C4'-C3'	10.11	114.18	106.10
1	AA	768	A	O4'-C1'-N9	10.11	116.28	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2198	A	P-O3'-C3'	10.11	131.83	119.70
26	BB	2337	G	C6-C5-N7	-10.11	124.34	130.40
26	BB	2510	C	C2-N3-C4	-10.11	114.85	119.90
1	AA	515	G	C2-N3-C4	10.10	116.95	111.90
26	BB	1553	A	O4'-C1'-N9	10.10	116.28	108.20
26	BB	2597	G	N9-C4-C5	10.10	109.44	105.40
1	AA	377	G	C2-N3-C4	10.10	116.95	111.90
26	BB	1988	G	N7-C8-N9	-10.10	108.05	113.10
36	BL	74	TYR	CB-CG-CD1	-10.10	114.94	121.00
1	AA	670	G	N7-C8-N9	-10.10	108.05	113.10
26	BB	1467	U	O4'-C1'-N1	10.10	116.28	108.20
26	BB	2477	U	C3'-C2'-C1'	10.10	109.58	101.50
9	AI	59	TYR	CB-CG-CD2	-10.09	114.94	121.00
26	BB	380	G	C8-N9-C4	-10.09	102.36	106.40
26	BB	1964	G	N7-C8-N9	10.09	118.15	113.10
1	AA	47	C	C4-C5-C6	10.09	122.45	117.40
26	BB	186	G	O4'-C1'-N9	10.09	116.27	108.20
1	AA	310	G	C8-N9-C4	-10.09	102.36	106.40
41	BQ	111	ARG	NE-CZ-NH1	10.09	125.34	120.30
1	AA	221	C	O4'-C1'-N1	10.09	116.27	108.20
1	AA	329	A	C8-N9-C4	-10.09	101.77	105.80
1	AA	930	C	N3-C4-C5	-10.09	117.86	121.90
1	AA	934	C	C2-N3-C4	10.09	124.94	119.90
1	AA	1464	U	C2-N3-C4	-10.09	120.95	127.00
26	BB	2013	A	N9-C4-C5	-10.09	101.77	105.80
26	BB	2162	G	C4-C5-N7	-10.09	106.77	110.80
26	BB	2588	G	N9-C4-C5	10.09	109.44	105.40
1	AA	1537	U	O4'-C1'-C2'	-10.09	95.72	105.80
26	BB	467	G	C8-N9-C4	-10.08	102.37	106.40
1	AA	567	G	C2-N3-C4	10.08	116.94	111.90
26	BB	2295	C	C4'-C3'-C2'	-10.08	92.52	102.60
31	BG	132	ARG	NE-CZ-NH1	-10.08	115.26	120.30
26	BB	489	G	N7-C8-N9	10.08	118.14	113.10
1	AA	1453	G	C1'-O4'-C4'	-10.07	101.84	109.90
25	BA	116	G	O4'-C1'-N9	10.07	116.26	108.20
26	BB	619	G	C5-C6-N1	10.07	116.54	111.50
26	BB	1988	G	C6-C5-N7	10.07	136.44	130.40
26	BB	2534	A	C5-C6-N1	10.07	122.73	117.70
1	AA	1108	G	C2-N3-C4	10.07	116.93	111.90
25	BA	75	G	C4-C5-C6	10.07	124.84	118.80
1	AA	620	C	C5-C6-N1	10.07	126.03	121.00
1	AA	739	C	C5-C6-N1	10.07	126.03	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1063	C	N3-C4-N4	10.07	125.05	118.00
1	AA	724	G	C4-C5-N7	10.07	114.83	110.80
26	BB	1849	G	N9-C4-C5	10.07	109.43	105.40
26	BB	2438	U	O4'-C1'-N1	10.06	116.25	108.20
26	BB	2298	A	N7-C8-N9	10.06	118.83	113.80
1	AA	816	A	C8-N9-C4	-10.06	101.78	105.80
26	BB	1947	C	O4'-C1'-N1	10.06	116.25	108.20
1	AA	6	G	O4'-C1'-N9	10.06	116.25	108.20
1	AA	1306	A	N1-C6-N6	10.06	124.64	118.60
26	BB	1619	G	C4-C5-N7	-10.06	106.78	110.80
26	BB	2561	U	O4'-C1'-N1	10.06	116.25	108.20
26	BB	2770	G	C4-C5-N7	10.06	114.82	110.80
1	AA	191	G	O4'-C1'-N9	10.05	116.24	108.20
19	AS	14	ARG	NE-CZ-NH1	10.06	125.33	120.30
26	BB	2397	G	C2-N3-C4	10.06	116.93	111.90
1	AA	957	U	C1'-O4'-C4'	10.05	117.94	109.90
26	BB	2130	U	C1'-O4'-C4'	-10.05	101.86	109.90
26	BB	2355	G	N3-C4-C5	-10.05	123.57	128.60
1	AA	451	A	N1-C6-N6	10.05	124.63	118.60
1	AA	500	G	C4-C5-C6	10.05	124.83	118.80
26	BB	1927	A	C8-N9-C4	-10.05	101.78	105.80
26	BB	2322	A	N7-C8-N9	10.05	118.83	113.80
26	BB	647	G	N9-C4-C5	10.05	109.42	105.40
1	AA	1542	A	C4-C5-C6	-10.05	111.98	117.00
26	BB	1095	A	C3'-C2'-C1'	10.05	109.54	101.50
26	BB	1903	G	C2-N3-C4	10.05	116.92	111.90
26	BB	541	A	O4'-C1'-N9	-10.05	100.16	108.20
26	BB	1117	C	C2-N3-C4	-10.05	114.88	119.90
26	BB	2023	C	N1-C2-O2	10.05	124.93	118.90
26	BB	2496	C	O4'-C1'-N1	10.05	116.24	108.20
26	BB	2599	G	C6-N1-C2	-10.05	119.07	125.10
1	AA	391	G	N3-C4-C5	-10.04	123.58	128.60
1	AA	714	G	C4-C5-N7	10.04	114.82	110.80
2	AB	35	C	C3'-C2'-C1'	10.04	109.54	101.50
26	BB	2888	C	O4'-C1'-N1	10.04	116.23	108.20
26	BB	30	G	C3'-C2'-C1'	-10.04	93.47	101.50
26	BB	1041	G	O4'-C1'-N9	10.04	116.23	108.20
26	BB	2892	G	C5-C6-O6	-10.04	122.58	128.60
26	BB	267	C	C6-N1-C2	-10.04	116.28	120.30
26	BB	2088	A	N1-C6-N6	-10.04	112.58	118.60
1	AA	513	C	C5-C6-N1	10.04	126.02	121.00
1	AA	124	C	C5'-C4'-O4'	10.03	121.14	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	528	C	N3-C4-C5	-10.03	117.89	121.90
1	AA	1208	C	N3-C4-C5	10.04	125.91	121.90
26	BB	544	C	N1-C2-O2	10.03	124.92	118.90
26	BB	1836	C	N1-C2-O2	10.03	124.92	118.90
26	BB	2569	G	C5-C6-O6	-10.03	122.58	128.60
26	BB	2691	C	O4'-C1'-N1	10.03	116.22	108.20
55	B4	5	ARG	NE-CZ-NH1	10.03	125.32	120.30
1	AA	294	U	C2-N3-C4	-10.03	120.98	127.00
1	AA	1303	C	N3-C4-N4	10.03	125.02	118.00
26	BB	2181	U	O4'-C1'-N1	10.03	116.22	108.20
1	AA	1357	A	O4'-C1'-N9	10.03	116.22	108.20
1	AA	1413	A	N1-C2-N3	-10.03	124.29	129.30
4	AD	30	G	C4-C5-N7	-10.03	106.79	110.80
26	BB	364	C	C4-C5-C6	-10.03	112.39	117.40
26	BB	994	C	O4'-C1'-N1	10.03	116.22	108.20
26	BB	2440	C	O4'-C1'-N1	10.03	116.22	108.20
26	BB	2442	C	N1-C2-O2	10.03	124.92	118.90
26	BB	2890	G	N3-C4-N9	10.03	132.02	126.00
26	BB	372	G	C6-N1-C2	-10.02	119.08	125.10
26	BB	403	U	C6-N1-C2	-10.02	114.99	121.00
26	BB	1477	A	C8-N9-C4	-10.02	101.79	105.80
26	BB	1584	U	C5-C4-O4	-10.02	119.89	125.90
25	BA	81	G	C5-C6-O6	-10.02	122.59	128.60
26	BB	720	U	C5-C6-N1	-10.02	117.69	122.70
26	BB	1573	G	N3-C4-C5	-10.02	123.59	128.60
26	BB	1928	A	C4-C5-C6	10.02	122.01	117.00
1	AA	371	A	O4'-C1'-N9	-10.02	100.19	108.20
26	BB	683	U	N1-C2-N3	10.02	120.91	114.90
26	BB	1846	G	N9-C4-C5	10.02	109.41	105.40
26	BB	2021	C	N1-C2-O2	10.02	124.91	118.90
1	AA	209	U	C5-C6-N1	-10.01	117.69	122.70
26	BB	171	U	N3-C2-O2	-10.01	115.19	122.20
26	BB	1947	C	N3-C2-O2	-10.01	114.89	121.90
26	BB	2108	A	N9-C4-C5	10.01	109.81	105.80
1	AA	147	G	O4'-C1'-N9	10.01	116.21	108.20
1	AA	1016	A	C8-N9-C4	-10.01	101.80	105.80
26	BB	1555	G	O4'-C1'-N9	10.01	116.21	108.20
1	AA	651	C	C2-N3-C4	10.01	124.90	119.90
1	AA	745	G	C8-N9-C4	-10.01	102.40	106.40
26	BB	275	C	C6-N1-C2	-10.01	116.30	120.30
26	BB	1814	G	C6-N1-C2	-10.01	119.09	125.10
26	BB	2052	A	O4'-C1'-N9	10.01	116.21	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	238	A	C5-C6-N1	10.01	122.70	117.70
25	BA	10	G	N3-C4-N9	-10.01	120.00	126.00
26	BB	775	G	C6-N1-C2	-10.01	119.10	125.10
26	BB	988	A	C1'-O4'-C4'	10.01	117.91	109.90
26	BB	1436	G	C4-C5-N7	-10.01	106.80	110.80
26	BB	1891	G	N3-C4-C5	-10.01	123.60	128.60
26	BB	2610	C	N3-C2-O2	-10.01	114.90	121.90
55	B4	27	ARG	NE-CZ-NH2	-10.01	115.30	120.30
1	AA	208	U	O4'-C1'-N1	10.00	116.20	108.20
1	AA	774	G	N3-C2-N2	-10.00	112.90	119.90
1	AA	1300	G	N9-C4-C5	10.00	109.40	105.40
26	BB	1337	G	N7-C8-N9	10.00	118.10	113.10
26	BB	1896	G	C6-C5-N7	-10.00	124.40	130.40
50	BZ	56	ARG	NE-CZ-NH2	10.00	125.30	120.30
26	BB	2792	A	N9-C1'-C2'	-10.00	101.00	112.00
1	AA	235	C	C5-C4-N4	-10.00	113.20	120.20
26	BB	1595	C	C4-C5-C6	10.00	122.40	117.40
26	BB	2205	A	C8-N9-C4	-10.00	101.80	105.80
26	BB	2220	U	N1-C1'-C2'	-10.00	101.00	112.00
26	BB	1380	G	O4'-C1'-N9	10.00	116.20	108.20
26	BB	2618	G	N7-C8-N9	10.00	118.10	113.10
1	AA	350	G	C1'-O4'-C4'	-9.99	101.90	109.90
26	BB	855	G	N3-C2-N2	9.99	126.90	119.90
26	BB	1197	G	O4'-C1'-N9	9.99	116.20	108.20
26	BB	1527	G	C5-C6-O6	9.99	134.60	128.60
26	BB	2253	G	C8-N9-C4	-9.99	102.40	106.40
26	BB	2442	C	O4'-C1'-N1	9.99	116.20	108.20
1	AA	830	G	C5-C6-N1	9.99	116.50	111.50
1	AA	1108	G	N1-C2-N3	-9.99	117.91	123.90
26	BB	1746	A	C8-N9-C4	-9.99	101.80	105.80
26	BB	1970	A	N1-C6-N6	-9.99	112.60	118.60
26	BB	2484	G	N3-C4-C5	-9.99	123.60	128.60
1	AA	352	C	N3-C2-O2	-9.99	114.91	121.90
26	BB	1770	G	C4-C5-C6	9.99	124.80	118.80
1	AA	191	G	C6-C5-N7	-9.99	124.41	130.40
1	AA	984	C	C6-N1-C2	-9.99	116.30	120.30
25	BA	94	A	C4'-C3'-C2'	-9.99	92.61	102.60
1	AA	123	U	C5-C6-N1	-9.99	117.71	122.70
1	AA	655	A	N7-C8-N9	9.99	118.79	113.80
26	BB	674	G	C8-N9-C4	-9.99	102.41	106.40
26	BB	2133	G	C3'-C2'-C1'	9.99	109.49	101.50
1	AA	558	G	C4-C5-N7	-9.98	106.81	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	573	A	C4-C5-N7	9.98	115.69	110.70
26	BB	2190	G	C4-C5-N7	-9.98	106.81	110.80
26	BB	1139	G	C6-N1-C2	-9.98	119.11	125.10
1	AA	527	7MG	P-O3'-C3'	9.98	131.67	119.70
26	BB	1477	A	C3'-C2'-C1'	-9.98	93.52	101.50
26	BB	1616	A	O4'-C1'-N9	9.98	116.18	108.20
26	BB	2597	G	N1-C6-O6	-9.98	113.91	119.90
1	AA	63	C	N3-C4-N4	9.97	124.98	118.00
26	BB	218	A	C4-C5-C6	-9.97	112.01	117.00
26	BB	899	A	N9-C4-C5	9.97	109.79	105.80
26	BB	1896	G	N7-C8-N9	9.97	118.09	113.10
3	AC	46	C	O4'-C1'-N1	9.97	116.18	108.20
26	BB	537	G	C2-N3-C4	9.97	116.89	111.90
26	BB	1099	G	N9-C4-C5	9.97	109.39	105.40
26	BB	2337	G	N1-C2-N3	9.97	129.88	123.90
1	AA	129	A	C5-C6-N1	9.97	122.68	117.70
26	BB	409	G	N9-C4-C5	9.97	109.39	105.40
26	BB	1433	A	N9-C4-C5	-9.97	101.81	105.80
26	BB	1654	A	C5'-C4'-O4'	9.97	121.06	109.10
26	BB	2203	U	O4'-C1'-N1	9.97	116.17	108.20
26	BB	2287	A	P-O3'-C3'	9.97	131.66	119.70
1	AA	185	U	C5-C4-O4	-9.96	119.92	125.90
26	BB	877	A	C8-N9-C4	-9.97	101.81	105.80
1	AA	361	G	C5-C6-N1	9.96	116.48	111.50
26	BB	467	G	C4-C5-C6	9.96	124.78	118.80
26	BB	2439	A	N1-C2-N3	-9.96	124.32	129.30
1	AA	100	G	C5-C6-O6	9.96	134.58	128.60
26	BB	359	G	C5-N7-C8	-9.96	99.32	104.30
26	BB	496	G	N3-C4-C5	-9.96	123.62	128.60
26	BB	560	C	C6-N1-C2	-9.96	116.32	120.30
26	BB	2099	U	N1-C2-O2	-9.96	115.83	122.80
26	BB	2721	A	N7-C8-N9	-9.96	108.82	113.80
1	AA	799	G	C5-C6-O6	-9.95	122.63	128.60
2	AB	33	U	N3-C2-O2	-9.95	115.23	122.20
26	BB	1297	C	C6-N1-C2	9.96	124.28	120.30
26	BB	1323	C	O4'-C4'-C3'	9.95	114.06	106.10
26	BB	1648	U	N3-C4-O4	9.95	126.37	119.40
26	BB	2117	A	C4-C5-C6	-9.96	112.02	117.00
26	BB	2308	G	C4-C5-N7	-9.95	106.82	110.80
1	AA	525	C	N3-C4-C5	-9.95	117.92	121.90
1	AA	339	C	N3-C4-C5	-9.95	117.92	121.90
1	AA	780	A	N9-C4-C5	9.95	109.78	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	69	G	N1-C2-N3	-9.95	117.93	123.90
26	BB	416	U	O4'-C1'-N1	9.95	116.16	108.20
26	BB	1082	U	C5'-C4'-O4'	9.95	121.04	109.10
26	BB	2018	G	C2-N3-C4	9.95	116.88	111.90
1	AA	357	G	N3-C4-C5	-9.95	123.62	128.60
26	BB	1439	A	C5-C6-N6	9.95	131.66	123.70
26	BB	2585	U	N1-C2-O2	9.95	129.76	122.80
1	AA	362	G	C6-N1-C2	-9.95	119.13	125.10
26	BB	539	G	N1-C2-N3	9.95	129.87	123.90
26	BB	731	C	C4-C5-C6	-9.95	112.43	117.40
26	BB	2085	U	O4'-C1'-N1	9.95	116.16	108.20
1	AA	127	G	O4'-C1'-N9	9.95	116.16	108.20
1	AA	570	G	C8-N9-C4	-9.95	102.42	106.40
1	AA	581	G	N7-C8-N9	9.95	118.07	113.10
26	BB	973	A	C4-C5-N7	-9.95	105.73	110.70
26	BB	1025	G	O4'-C1'-N9	9.95	116.16	108.20
26	BB	2349	G	N3-C4-C5	-9.95	123.63	128.60
26	BB	1890	A	C8-N9-C4	-9.94	101.82	105.80
26	BB	2360	G	C2-N3-C4	9.94	116.87	111.90
26	BB	668	A	C6-N1-C2	-9.94	112.63	118.60
26	BB	674	G	N1-C2-N3	-9.94	117.94	123.90
26	BB	1429	G	N3-C4-C5	-9.94	123.63	128.60
26	BB	2243	U	C5-C6-N1	-9.94	117.73	122.70
25	BA	16	G	C8-N9-C4	-9.94	102.42	106.40
26	BB	2627	G	N9-C1'-C2'	-9.94	101.07	112.00
1	AA	641	U	N3-C2-O2	-9.94	115.25	122.20
1	AA	838	G	C8-N9-C4	-9.94	102.43	106.40
1	AA	1021	A	C8-N9-C4	-9.94	101.83	105.80
1	AA	1041	G	C5-C6-O6	-9.94	122.64	128.60
1	AA	1390	U	N1-C2-N3	9.94	120.86	114.90
26	BB	515	A	C4-C5-C6	9.94	121.97	117.00
26	BB	798	G	C8-N9-C4	-9.94	102.43	106.40
26	BB	973	A	O4'-C1'-N9	9.94	116.15	108.20
1	AA	1099	G	N1-C2-N3	-9.93	117.94	123.90
26	BB	325	G	N7-C8-N9	9.93	118.07	113.10
26	BB	1055	G	C6-C5-N7	9.93	136.36	130.40
26	BB	1279	G	O4'-C1'-N9	9.93	116.14	108.20
1	AA	15	G	C5-C6-O6	-9.93	122.64	128.60
1	AA	1537	U	C3'-C2'-C1'	9.93	109.44	101.50
4	AD	68	C	C6-N1-C2	9.93	124.27	120.30
26	BB	2152	G	C5-C6-O6	-9.93	122.64	128.60
26	BB	2751	G	N3-C4-C5	-9.93	123.63	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2806	C	O4'-C1'-N1	9.93	116.14	108.20
1	AA	1167	A	N7-C8-N9	9.93	118.76	113.80
1	AA	1278	G	O4'-C1'-N9	9.93	116.14	108.20
1	AA	1487	G	C8-N9-C4	-9.93	102.43	106.40
26	BB	54	G	C8-N9-C4	-9.93	102.43	106.40
26	BB	1568	G	C5-N7-C8	-9.93	99.33	104.30
26	BB	1973	G	C6-C5-N7	-9.93	124.44	130.40
1	AA	654	G	C6-C5-N7	9.93	136.36	130.40
24	AX	68	ARG	NE-CZ-NH1	9.93	125.26	120.30
26	BB	2277	G	N3-C4-C5	-9.93	123.64	128.60
1	AA	1272	G	C5-C6-O6	-9.92	122.64	128.60
26	BB	22	C	O4'-C1'-N1	9.92	116.14	108.20
1	AA	100	G	C8-N9-C4	-9.92	102.43	106.40
1	AA	128	G	O4'-C1'-N9	9.92	116.14	108.20
26	BB	7	G	N1-C2-N3	-9.92	117.95	123.90
26	BB	948	C	N3-C4-N4	9.92	124.95	118.00
26	BB	1249	U	O4'-C1'-N1	9.92	116.14	108.20
26	BB	1489	C	C5-C6-N1	9.92	125.96	121.00
26	BB	1511	G	C6-N1-C2	-9.92	119.15	125.10
26	BB	1645	G	C6-N1-C2	-9.92	119.15	125.10
26	BB	1701	A	C5-C6-N1	9.92	122.66	117.70
1	AA	836	G	C8-N9-C4	-9.92	102.43	106.40
26	BB	103	A	N7-C8-N9	9.92	118.76	113.80
1	AA	1135	U	C5-C6-N1	-9.92	117.74	122.70
1	AA	421	U	O4'-C1'-N1	9.91	116.13	108.20
1	AA	1361	G	N7-C8-N9	9.91	118.06	113.10
1	AA	1504	G	C6-N1-C2	-9.91	119.15	125.10
1	AA	521	G	N3-C2-N2	-9.91	112.96	119.90
26	BB	271	G	C4-C5-C6	9.91	124.75	118.80
26	BB	548	G	N7-C8-N9	9.91	118.06	113.10
53	B2	49	ARG	NE-CZ-NH2	-9.91	115.34	120.30
1	AA	293	G	C6-N1-C2	9.91	131.05	125.10
1	AA	676	A	C6-N1-C2	-9.91	112.65	118.60
26	BB	1446	C	N1-C2-O2	9.91	124.85	118.90
26	BB	2831	G	C8-N9-C4	-9.91	102.44	106.40
1	AA	374	A	N7-C8-N9	9.91	118.75	113.80
15	AO	60	PHE	CB-CG-CD1	-9.91	113.87	120.80
1	AA	1482	G	N3-C4-N9	9.90	131.94	126.00
26	BB	458	G	N9-C4-C5	9.90	109.36	105.40
26	BB	617	G	C8-N9-C4	-9.90	102.44	106.40
25	BA	71	C	N3-C4-C5	9.90	125.86	121.90
26	BB	19	A	C4'-C3'-C2'	-9.90	92.70	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1332	G	O4'-C1'-N9	9.90	116.12	108.20
26	BB	1696	G	O4'-C4'-C3'	9.90	114.02	106.10
26	BB	1186	G	C4-C5-N7	-9.90	106.84	110.80
26	BB	1201	U	O4'-C1'-N1	9.90	116.12	108.20
26	BB	2006	C	N3-C4-N4	9.90	124.93	118.00
26	BB	1824	G	C4-C5-N7	-9.90	106.84	110.80
1	AA	69	G	C6-C5-N7	9.90	136.34	130.40
1	AA	615	G	C5-C6-N1	9.90	116.45	111.50
1	AA	860	A	N9-C4-C5	9.90	109.76	105.80
26	BB	863	A	C8-N9-C4	-9.90	101.84	105.80
26	BB	222	A	O4'-C1'-N9	9.89	116.12	108.20
26	BB	2136	G	N3-C4-C5	-9.89	123.65	128.60
26	BB	564	C	N3-C2-O2	-9.89	114.97	121.90
26	BB	840	C	N3-C4-C5	-9.89	117.94	121.90
26	BB	1250	G	C6-N1-C2	-9.89	119.17	125.10
26	BB	2726	A	O4'-C1'-N9	9.89	116.11	108.20
1	AA	771	G	C2-N3-C4	9.89	116.84	111.90
1	AA	1300	G	N3-C4-C5	-9.89	123.66	128.60
26	BB	1700	A	N1-C6-N6	9.89	124.53	118.60
50	BZ	56	ARG	NE-CZ-NH1	-9.89	115.36	120.30
26	BB	1834	U	N3-C2-O2	-9.88	115.28	122.20
26	BB	432	A	C2-N3-C4	9.88	115.54	110.60
26	BB	498	G	O4'-C1'-N9	9.88	116.11	108.20
26	BB	693	A	C2-N3-C4	9.88	115.54	110.60
26	BB	1227	G	C5-C6-N1	9.88	116.44	111.50
26	BB	1255	U	N3-C2-O2	-9.88	115.28	122.20
1	AA	102	G	C4-C5-N7	-9.88	106.85	110.80
1	AA	238	A	N1-C6-N6	-9.88	112.67	118.60
1	AA	714	G	N9-C4-C5	-9.88	101.45	105.40
26	BB	1613	G	C4-C5-C6	9.88	124.73	118.80
1	AA	132	C	N1-C1'-C2'	-9.88	101.14	112.00
26	BB	2264	C	N1-C2-O2	9.87	124.83	118.90
26	BB	2494	G	C8-N9-C4	-9.87	102.45	106.40
1	AA	193	C	N1-C1'-C2'	-9.87	101.14	112.00
1	AA	646	G	C5'-C4'-O4'	9.87	120.95	109.10
26	BB	221	A	C8-N9-C4	-9.87	101.85	105.80
26	BB	1576	U	C2-N3-C4	-9.87	121.08	127.00
26	BB	1844	C	C4-C5-C6	-9.87	112.47	117.40
26	BB	2051	A	O4'-C1'-N9	9.87	116.10	108.20
1	AA	1130	A	N1-C6-N6	-9.87	112.68	118.60
26	BB	702	U	C5-C6-N1	-9.87	117.77	122.70
1	AA	262	A	N9-C4-C5	9.87	109.75	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	582	C	O4'-C1'-N1	9.87	116.09	108.20
26	BB	387	U	C5-C4-O4	-9.87	119.98	125.90
26	BB	1948	G	N3-C4-C5	-9.87	123.67	128.60
26	BB	576	U	O4'-C1'-N1	9.87	116.09	108.20
26	BB	683	U	C6-N1-C2	-9.87	115.08	121.00
26	BB	791	C	O4'-C1'-N1	9.86	116.09	108.20
26	BB	827	U	N1-C2-N3	9.86	120.82	114.90
26	BB	1173	U	C6-N1-C2	-9.86	115.08	121.00
1	AA	848	C	C6-N1-C2	-9.86	116.36	120.30
1	AA	848	C	N3-C4-C5	-9.86	117.95	121.90
26	BB	1186	G	O4'-C4'-C3'	9.86	113.99	106.10
26	BB	1228	G	C8-N9-C4	9.86	110.34	106.40
26	BB	2474	U	O4'-C1'-N1	9.86	116.09	108.20
1	AA	26	A	N3-C4-C5	-9.86	119.90	126.80
1	AA	124	C	N3-C4-N4	9.86	124.90	118.00
1	AA	142	G	C5-C6-O6	-9.86	122.68	128.60
25	BA	69	G	C4-C5-N7	9.86	114.74	110.80
1	AA	1476	A	C4-C5-C6	9.86	121.93	117.00
26	BB	257	C	O4'-C1'-N1	9.86	116.09	108.20
26	BB	1200	C	O4'-C1'-N1	9.86	116.09	108.20
26	BB	2040	G	N9-C1'-C2'	-9.86	101.16	112.00
26	BB	2574	G	C5-C6-O6	-9.86	122.68	128.60
1	AA	474	G	C2-N3-C4	9.86	116.83	111.90
26	BB	319	G	N7-C8-N9	9.86	118.03	113.10
1	AA	413	G	C5-N7-C8	-9.86	99.37	104.30
1	AA	980	C	C4-C5-C6	-9.86	112.47	117.40
26	BB	383	C	N1-C2-O2	9.86	124.81	118.90
26	BB	409	G	N3-C4-C5	-9.86	123.67	128.60
26	BB	2285	C	N3-C4-C5	-9.86	117.96	121.90
26	BB	2337	G	N9-C4-C5	-9.86	101.46	105.40
26	BB	1272	A	N1-C2-N3	-9.85	124.37	129.30
26	BB	361	G	N3-C4-C5	-9.85	123.67	128.60
26	BB	1463	C	O4'-C1'-N1	9.85	116.08	108.20
26	BB	1658	C	C6-N1-C2	9.85	124.24	120.30
26	BB	1897	G	N3-C2-N2	-9.85	113.00	119.90
1	AA	979	C	N3-C4-C5	-9.85	117.96	121.90
26	BB	1052	C	C5-C4-N4	-9.85	113.31	120.20
26	BB	2225	A	C5-C6-N1	9.85	122.62	117.70
26	BB	1180	U	C5-C4-O4	-9.85	119.99	125.90
26	BB	2729	G	C4-C5-N7	-9.85	106.86	110.80
26	BB	2015	A	C5-N7-C8	-9.85	98.98	103.90
26	BB	2266	A	C2-N3-C4	9.85	115.52	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2362	C	C5-C6-N1	9.85	125.92	121.00
26	BB	2391	G	O4'-C1'-N9	9.85	116.08	108.20
39	BO	6	ARG	NE-CZ-NH2	-9.85	115.38	120.30
41	BQ	102	ARG	NE-CZ-NH2	-9.85	115.38	120.30
1	AA	121	U	O4'-C1'-N1	9.84	116.07	108.20
1	AA	142	G	C4'-C3'-C2'	-9.84	92.76	102.60
26	BB	76	C	N3-C4-C5	-9.84	117.96	121.90
30	BF	114	ARG	NE-CZ-NH1	9.84	125.22	120.30
1	AA	1093	A	C2-N3-C4	9.84	115.52	110.60
1	AA	1250	A	O4'-C1'-N9	9.84	116.07	108.20
2	AB	73	G	C4'-C3'-C2'	-9.84	92.76	102.60
26	BB	1525	A	O4'-C1'-N9	9.84	116.07	108.20
26	BB	1697	G	N3-C4-C5	-9.84	123.68	128.60
26	BB	1907	G	N3-C4-C5	-9.84	123.68	128.60
26	BB	2631	G	C2-N3-C4	9.84	116.82	111.90
1	AA	82	G	N3-C4-C5	-9.83	123.68	128.60
1	AA	997	U	O4'-C1'-N1	9.83	116.07	108.20
1	AA	1334	G	N3-C4-C5	-9.83	123.68	128.60
1	AA	1338	G	C2-N3-C4	9.83	116.82	111.90
26	BB	456	C	O4'-C1'-N1	9.83	116.07	108.20
26	BB	1265	A	C2-N3-C4	9.83	115.52	110.60
26	BB	2748	A	C2-N3-C4	9.83	115.52	110.60
26	BB	2781	A	N1-C6-N6	-9.83	112.70	118.60
56	B5	12	ARG	NE-CZ-NH2	9.83	125.22	120.30
1	AA	1423	G	C2-N3-C4	9.83	116.81	111.90
26	BB	207	A	N3-C4-C5	-9.83	119.92	126.80
26	BB	1740	G	N3-C4-C5	-9.83	123.69	128.60
26	BB	2632	A	N1-C2-N3	-9.83	124.39	129.30
1	AA	431	A	C8-N9-C4	-9.82	101.87	105.80
26	BB	1477	A	N1-C2-N3	-9.82	124.39	129.30
26	BB	2382	G	N7-C8-N9	9.82	118.01	113.10
26	BB	126	A	C1'-O4'-C4'	-9.82	102.04	109.90
26	BB	1744	A	O4'-C1'-N9	9.82	116.06	108.20
26	BB	2830	C	C5-C6-N1	9.82	125.91	121.00
26	BB	573	U	C4'-C3'-C2'	-9.82	92.78	102.60
26	BB	2362	C	C2-N3-C4	9.82	124.81	119.90
17	AQ	60	ARG	NE-CZ-NH1	9.81	125.21	120.30
26	BB	213	A	N7-C8-N9	9.81	118.71	113.80
26	BB	485	C	C2-N3-C4	9.81	124.81	119.90
1	AA	484	G	N1-C6-O6	9.81	125.79	119.90
26	BB	333	G	C4-C5-N7	-9.81	106.88	110.80
26	BB	361	G	C5-C6-N1	-9.81	106.59	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1552	A	P-O3'-C3'	9.81	131.47	119.70
26	BB	1567	G	O4'-C1'-N9	9.81	116.05	108.20
26	BB	2610	C	N3-C4-C5	-9.81	117.97	121.90
36	BL	35	ARG	NE-CZ-NH2	-9.81	115.39	120.30
1	AA	153	C	C4-C5-C6	-9.81	112.50	117.40
1	AA	547	A	C4-C5-N7	-9.81	105.80	110.70
26	BB	620	G	N1-C6-O6	-9.81	114.02	119.90
1	AA	926	G	C4-C5-N7	-9.81	106.88	110.80
1	AA	1214	C	C6-N1-C2	-9.81	116.38	120.30
26	BB	1719	G	O4'-C1'-N9	9.81	116.05	108.20
26	BB	1816	C	C3'-C2'-C1'	9.81	109.34	101.50
1	AA	703	G	C4-C5-N7	-9.80	106.88	110.80
1	AA	973	G	C5-N7-C8	9.80	109.20	104.30
26	BB	270	A	N7-C8-N9	9.80	118.70	113.80
26	BB	979	A	C8-N9-C4	9.80	109.72	105.80
26	BB	1941	C	O4'-C1'-N1	9.80	116.04	108.20
26	BB	579	G	C5-N7-C8	-9.80	99.40	104.30
26	BB	1123	C	N3-C2-O2	-9.80	115.04	121.90
26	BB	1014	A	C8-N9-C4	-9.80	101.88	105.80
26	BB	2714	G	N7-C8-N9	9.80	118.00	113.10
1	AA	654	G	N3-C4-N9	-9.80	120.12	126.00
26	BB	2625	G	N7-C8-N9	9.80	118.00	113.10
1	AA	653	U	N3-C4-O4	9.80	126.26	119.40
1	AA	1392	G	C1'-O4'-C4'	-9.79	102.06	109.90
26	BB	1031	G	N3-C4-C5	-9.80	123.70	128.60
26	BB	985	C	O4'-C1'-N1	9.79	116.03	108.20
1	AA	773	G	N3-C2-N2	-9.79	113.05	119.90
26	BB	1826	G	C5-C6-N1	9.79	116.40	111.50
26	BB	2225	A	C4-C5-C6	-9.79	112.10	117.00
26	BB	2626	C	N1-C2-O2	9.79	124.78	118.90
26	BB	2865	U	C2-N3-C4	-9.79	121.13	127.00
1	AA	539	A	N7-C8-N9	9.79	118.69	113.80
1	AA	1285	A	N7-C8-N9	-9.79	108.91	113.80
1	AA	1319	A	C4-C5-N7	9.79	115.59	110.70
1	AA	1412	C	C2-N3-C4	-9.79	115.01	119.90
26	BB	90	U	N1-C2-N3	9.79	120.77	114.90
26	BB	1791	A	C5-N7-C8	9.79	108.80	103.90
26	BB	1887	C	C5'-C4'-O4'	9.79	120.85	109.10
26	BB	1357	C	N3-C2-O2	-9.79	115.05	121.90
26	BB	1927	A	O4'-C1'-N9	9.79	116.03	108.20
53	B2	63	ARG	NE-CZ-NH2	-9.79	115.41	120.30
1	AA	343	U	O4'-C1'-N1	9.78	116.03	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	744	C	O4'-C1'-N1	9.79	116.03	108.20
1	AA	1282	C	O4'-C1'-N1	9.78	116.03	108.20
2	AB	63	C	O4'-C1'-N1	9.79	116.03	108.20
26	BB	1171	G	C4-C5-N7	-9.79	106.89	110.80
26	BB	2688	G	C6-N1-C2	-9.78	119.23	125.10
1	AA	292	G	C5-C6-N1	9.78	116.39	111.50
26	BB	254	G	C4-C5-C6	9.78	124.67	118.80
4	AD	19	G	C2-N3-C4	-9.78	107.01	111.90
1	AA	708	C	C2-N3-C4	-9.78	115.01	119.90
26	BB	1083	U	C2-N3-C4	-9.78	121.13	127.00
26	BB	1385	A	C8-N9-C4	-9.78	101.89	105.80
41	BQ	16	ARG	NE-CZ-NH1	-9.78	115.41	120.30
1	AA	88	U	O4'-C1'-N1	9.78	116.02	108.20
1	AA	725	G	C8-N9-C4	-9.78	102.49	106.40
26	BB	1619	G	C6-N1-C2	-9.78	119.23	125.10
1	AA	1080	A	C8-N9-C4	-9.77	101.89	105.80
1	AA	1523	G	C5'-C4'-O4'	9.77	120.83	109.10
25	BA	107	G	C8-N9-C4	-9.77	102.49	106.40
3	AC	50	U	N1-C2-O2	9.77	129.64	122.80
26	BB	283	G	N9-C4-C5	9.77	109.31	105.40
26	BB	1157	G	N3-C4-N9	9.77	131.86	126.00
26	BB	1349	C	O4'-C1'-N1	9.77	116.02	108.20
26	BB	1441	G	O4'-C1'-N9	9.77	116.02	108.20
26	BB	1813	G	N3-C2-N2	9.77	126.74	119.90
26	BB	1861	G	N3-C4-C5	-9.77	123.72	128.60
26	BB	2814	A	O4'-C1'-N9	9.77	116.02	108.20
1	AA	1048	G	N3-C2-N2	-9.77	113.06	119.90
26	BB	770	G	C4-C5-N7	-9.77	106.89	110.80
26	BB	1459	G	C4-C5-C6	-9.77	112.94	118.80
26	BB	2383	G	C8-N9-C4	-9.77	102.49	106.40
26	BB	1539	U	C5-C6-N1	-9.77	117.82	122.70
26	BB	2455	G	N7-C8-N9	9.77	117.98	113.10
28	BD	247	TRP	CE2-CD2-CG	9.77	115.11	107.30
26	BB	2510	C	O4'-C1'-N1	9.77	116.01	108.20
1	AA	200	G	C5-N7-C8	-9.76	99.42	104.30
26	BB	981	A	O4'-C1'-N9	9.76	116.01	108.20
26	BB	1580	A	C5-C6-N1	9.76	122.58	117.70
26	BB	1732	C	N1-C2-O2	9.76	124.76	118.90
26	BB	2376	A	C5-N7-C8	-9.76	99.02	103.90
1	AA	670	G	C8-N9-C4	9.76	110.31	106.40
1	AA	778	G	C2-N3-C4	9.76	116.78	111.90
1	AA	981	U	C4-C5-C6	9.76	125.56	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	454	G	N3-C2-N2	-9.76	113.07	119.90
1	AA	209	U	O4'-C1'-N1	9.76	116.01	108.20
26	BB	8	C	N1-C2-O2	9.76	124.75	118.90
1	AA	739	C	N3-C4-C5	9.76	125.80	121.90
1	AA	1244	G	C5-C6-N1	9.76	116.38	111.50
1	AA	1315	U	O4'-C1'-N1	9.76	116.01	108.20
26	BB	440	C	N1-C2-O2	9.76	124.75	118.90
26	BB	650	C	O4'-C1'-N1	9.76	116.00	108.20
26	BB	1005	C	N3-C4-C5	-9.76	118.00	121.90
26	BB	2218	G	N1-C6-O6	9.76	125.75	119.90
26	BB	2781	A	N7-C8-N9	9.76	118.68	113.80
26	BB	668	A	C5-N7-C8	9.75	108.78	103.90
26	BB	2308	G	N1-C6-O6	-9.75	114.05	119.90
26	BB	2362	C	O4'-C1'-N1	9.75	116.00	108.20
26	BB	2762	C	N1-C2-O2	9.75	124.75	118.90
25	BA	2	G	N3-C4-N9	9.75	131.85	126.00
26	BB	644	A	N7-C8-N9	9.75	118.67	113.80
1	AA	6	G	N3-C2-N2	-9.75	113.08	119.90
1	AA	1316	G	N3-C4-N9	9.75	131.85	126.00
26	BB	271	G	N3-C4-C5	-9.75	123.73	128.60
26	BB	1088	A	C4-C5-N7	-9.75	105.83	110.70
26	BB	1421	G	N3-C4-C5	-9.75	123.73	128.60
26	BB	775	G	N9-C4-C5	9.75	109.30	105.40
26	BB	1617	C	C2-N3-C4	9.75	124.77	119.90
26	BB	647	G	N3-C4-C5	-9.74	123.73	128.60
26	BB	1879	C	C4'-C3'-C2'	-9.74	92.86	102.60
26	BB	1881	C	N3-C2-O2	-9.74	115.08	121.90
1	AA	135	C	N3-C4-N4	9.74	124.82	118.00
26	BB	2290	G	O4'-C1'-N9	9.74	116.00	108.20
26	BB	2396	G	O4'-C1'-N9	9.74	115.99	108.20
26	BB	2662	A	O4'-C1'-N9	9.74	116.00	108.20
4	AD	63	C	N3-C4-C5	-9.74	118.00	121.90
26	BB	321	U	O4'-C1'-N1	9.74	115.99	108.20
26	BB	1942	C	C6-N1-C2	9.74	124.20	120.30
26	BB	2387	U	C5-C4-O4	-9.74	120.06	125.90
26	BB	2456	C	C6-N1-C2	-9.74	116.40	120.30
1	AA	311	C	N3-C2-O2	-9.74	115.08	121.90
1	AA	917	G	N7-C8-N9	9.74	117.97	113.10
1	AA	1483	A	C5-C6-N1	9.74	122.57	117.70
26	BB	2430	A	C5'-C4'-O4'	9.74	120.78	109.10
1	AA	1374	A	O4'-C1'-N9	9.73	115.99	108.20
2	AB	61	C	N1-C2-O2	9.73	124.74	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	19	A	C8-N9-C4	-9.73	101.91	105.80
26	BB	310	A	N1-C6-N6	-9.73	112.76	118.60
26	BB	628	G	N3-C4-C5	9.73	133.47	128.60
26	BB	2487	G	N3-C4-C5	-9.73	123.73	128.60
26	BB	2434	A	C1'-O4'-C4'	-9.73	102.11	109.90
1	AA	861	G	C8-N9-C4	-9.73	102.51	106.40
1	AA	1391	U	N3-C4-C5	-9.73	108.76	114.60
26	BB	220	G	N9-C4-C5	9.73	109.29	105.40
26	BB	2688	G	N3-C4-C5	-9.73	123.73	128.60
1	AA	381	C	N3-C4-C5	-9.73	118.01	121.90
1	AA	575	G	N9-C4-C5	9.73	109.29	105.40
1	AA	1153	G	N3-C4-N9	9.73	131.84	126.00
26	BB	1494	A	N9-C4-C5	9.73	109.69	105.80
1	AA	1432	G	C2-N3-C4	9.72	116.76	111.90
26	BB	490	C	N1-C2-O2	9.72	124.73	118.90
26	BB	1350	C	N3-C4-C5	-9.72	118.01	121.90
26	BB	2532	G	C4-C5-N7	-9.72	106.91	110.80
26	BB	1043	C	O4'-C1'-N1	9.72	115.98	108.20
26	BB	2033	A	N7-C8-N9	9.72	118.66	113.80
1	AA	88	U	C5-C4-O4	-9.72	120.07	125.90
26	BB	1819	A	C5-C6-N6	-9.72	115.92	123.70
26	BB	2211	A	C8-N9-C4	-9.72	101.91	105.80
1	AA	194	C	N1-C2-O2	9.72	124.73	118.90
1	AA	823	C	O4'-C1'-N1	9.72	115.97	108.20
26	BB	620	G	N9-C4-C5	9.72	109.29	105.40
26	BB	974	G	N3-C4-C5	-9.72	123.74	128.60
26	BB	1141	U	N1-C2-N3	9.72	120.73	114.90
1	AA	1208	C	C6-N1-C2	9.71	124.19	120.30
2	AB	4	G	O4'-C4'-C3'	9.72	113.87	106.10
26	BB	291	G	N3-C4-C5	-9.72	123.74	128.60
19	AS	70	ARG	NE-CZ-NH1	9.71	125.16	120.30
26	BB	1362	C	C2-N3-C4	9.71	124.76	119.90
1	AA	285	C	C2-N3-C4	9.71	124.76	119.90
1	AA	816	A	C5-N7-C8	-9.71	99.04	103.90
26	BB	98	G	C8-N9-C4	-9.71	102.52	106.40
1	AA	827	U	C4-C5-C6	9.71	125.53	119.70
8	AH	68	ARG	NE-CZ-NH1	9.71	125.16	120.30
25	BA	78	A	O4'-C1'-N9	9.71	115.97	108.20
26	BB	369	U	C1'-O4'-C4'	-9.71	102.13	109.90
26	BB	1426	G	O4'-C1'-N9	9.71	115.97	108.20
42	BR	98	TYR	CB-CG-CD1	9.71	126.83	121.00
26	BB	752	A	O4'-C1'-N9	9.71	115.97	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2768	U	O4'-C1'-N1	9.71	115.97	108.20
1	AA	479	U	N3-C2-O2	-9.71	115.41	122.20
26	BB	1916	A	C8-N9-C4	-9.71	101.92	105.80
1	AA	1222	G	O4'-C1'-N9	9.70	115.96	108.20
26	BB	258	G	C2-N3-C4	9.70	116.75	111.90
26	BB	1845	G	C8-N9-C4	-9.71	102.52	106.40
2	AB	19	G	O4'-C1'-N9	9.70	115.96	108.20
1	AA	122	G	C8-N9-C4	-9.70	102.52	106.40
1	AA	669	G	N1-C6-O6	9.70	125.72	119.90
1	AA	1222	G	C4-C5-N7	-9.70	106.92	110.80
1	AA	1386	G	N3-C2-N2	-9.70	113.11	119.90
1	AA	1482	G	C2-N3-C4	9.70	116.75	111.90
4	AD	35	C	N3-C4-C5	-9.70	118.02	121.90
1	AA	124	C	N3-C2-O2	-9.70	115.11	121.90
1	AA	190	A	N7-C8-N9	9.70	118.65	113.80
26	BB	857	G	C2-N3-C4	9.70	116.75	111.90
26	BB	1375	U	C5-C4-O4	-9.70	120.08	125.90
26	BB	1565	C	C3'-C2'-C1'	-9.70	93.74	101.50
26	BB	2243	U	C5-C4-O4	-9.70	120.08	125.90
1	AA	540	G	N3-C4-N9	9.70	131.82	126.00
1	AA	883	C	O4'-C1'-N1	9.70	115.96	108.20
1	AA	1179	A	C4-C5-N7	-9.70	105.85	110.70
26	BB	1820	U	N1-C2-N3	9.70	120.72	114.90
26	BB	2482	A	N1-C6-N6	-9.70	112.78	118.60
1	AA	945	G	O4'-C1'-N9	9.69	115.95	108.20
1	AA	1019	A	N9-C4-C5	9.69	109.68	105.80
1	AA	1392	G	C8-N9-C4	-9.69	102.52	106.40
26	BB	2002	G	C5-C6-N1	9.69	116.35	111.50
26	BB	10	A	C6-C5-N7	9.69	139.08	132.30
26	BB	2817	U	O4'-C1'-N1	9.69	115.95	108.20
1	AA	147	G	C6-C5-N7	9.69	136.21	130.40
1	AA	810	C	C5-C6-N1	9.69	125.84	121.00
1	AA	878	A	O4'-C4'-C3'	9.69	113.85	106.10
1	AA	1151	A	N1-C2-N3	9.69	134.15	129.30
26	BB	22	C	C2-N3-C4	9.69	124.75	119.90
26	BB	359	G	C8-N9-C4	-9.69	102.52	106.40
26	BB	1981	A	N1-C6-N6	-9.69	112.79	118.60
26	BB	4	U	C5-C4-O4	-9.69	120.09	125.90
1	AA	1024	G	O4'-C1'-N9	9.69	115.95	108.20
1	AA	1369	C	O4'-C1'-N1	9.69	115.95	108.20
17	AQ	8	ARG	NE-CZ-NH2	-9.69	115.46	120.30
3	AC	16	A	C4-C5-N7	-9.68	105.86	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	36	A	C3'-C2'-C1'	-9.68	93.75	101.50
26	BB	486	C	C5'-C4'-O4'	9.68	120.72	109.10
26	BB	829	A	C8-N9-C4	9.68	109.67	105.80
26	BB	1893	C	O4'-C1'-N1	9.68	115.94	108.20
1	AA	50	A	C4-C5-C6	-9.68	112.16	117.00
1	AA	599	C	C4'-C3'-C2'	-9.68	92.92	102.60
1	AA	1003	G	C2-N3-C4	9.68	116.74	111.90
26	BB	549	G	C2-N3-C4	9.68	116.74	111.90
26	BB	712	G	C2-N3-C4	9.68	116.74	111.90
26	BB	1388	G	O4'-C1'-N9	9.68	115.94	108.20
1	AA	869	G	N3-C4-C5	-9.68	123.76	128.60
1	AA	1044	A	N1-C2-N3	-9.68	124.46	129.30
1	AA	326	G	C8-N9-C4	-9.68	102.53	106.40
25	BA	82	U	C4-C5-C6	9.68	125.50	119.70
26	BB	2719	G	C4-C5-C6	9.68	124.61	118.80
1	AA	292	G	C4-C5-N7	9.67	114.67	110.80
1	AA	881	G	C5-C6-O6	-9.67	122.80	128.60
9	AI	72	ASP	CB-CG-OD1	-9.67	109.60	118.30
25	BA	100	G	C4-C5-N7	-9.67	106.93	110.80
26	BB	573	U	C3'-C2'-C1'	9.67	109.24	101.50
26	BB	1250	G	C5-C6-O6	-9.67	122.80	128.60
26	BB	1465	G	N3-C4-N9	9.67	131.80	126.00
26	BB	2375	G	C4-C5-N7	9.67	114.67	110.80
26	BB	2416	C	N3-C2-O2	-9.67	115.13	121.90
26	BB	2496	C	C5-C6-N1	9.67	125.83	121.00
26	BB	2866	U	O4'-C4'-C3'	9.67	113.83	106.10
26	BB	2879	A	C5-N7-C8	-9.67	99.07	103.90
1	AA	1038	C	C2-N3-C4	9.67	124.73	119.90
26	BB	2010	G	N3-C4-C5	-9.67	123.77	128.60
1	AA	1121	U	N1-C1'-C2'	-9.67	101.37	112.00
1	AA	1355	G	C8-N9-C4	-9.66	102.53	106.40
26	BB	969	G	C3'-C2'-C1'	9.66	109.23	101.50
26	BB	1837	C	N3-C2-O2	-9.66	115.14	121.90
26	BB	1151	A	N7-C8-N9	9.66	118.63	113.80
26	BB	17	G	C8-N9-C4	-9.66	102.54	106.40
26	BB	834	G	N7-C8-N9	9.66	117.93	113.10
26	BB	2046	G	C8-N9-C4	9.66	110.26	106.40
1	AA	1505	G	C6-C5-N7	9.66	136.19	130.40
1	AA	1506	U	C4-C5-C6	9.66	125.50	119.70
26	BB	654	A	N7-C8-N9	9.66	118.63	113.80
1	AA	1525	G	C5-N7-C8	-9.66	99.47	104.30
4	AD	32	G	N3-C2-N2	9.66	126.66	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BJ	60	ARG	NE-CZ-NH2	9.66	125.13	120.30
26	BB	260	G	N1-C6-O6	-9.65	114.11	119.90
26	BB	1141	U	C6-N1-C2	-9.65	115.21	121.00
26	BB	1727	C	O4'-C1'-N1	9.65	115.92	108.20
26	BB	2266	A	O4'-C1'-C2'	-9.65	96.15	105.80
26	BB	2496	C	N1-C2-O2	9.65	124.69	118.90
3	AC	28	U	C3'-C2'-C1'	9.65	109.22	101.50
25	BA	81	G	C4'-C3'-C2'	-9.65	92.95	102.60
26	BB	1740	G	N3-C4-N9	9.65	131.79	126.00
26	BB	2339	C	O4'-C1'-N1	9.65	115.92	108.20
26	BB	1344	U	N1-C2-N3	9.65	120.69	114.90
26	BB	2370	G	N3-C4-C5	-9.65	123.78	128.60
26	BB	2515	C	N3-C2-O2	-9.65	115.15	121.90
1	AA	1240	U	C5-C6-N1	9.65	127.52	122.70
26	BB	481	G	C5-N7-C8	-9.65	99.48	104.30
26	BB	1854	A	C4-C5-C6	-9.65	112.18	117.00
26	BB	2443	C	C6-N1-C2	-9.65	116.44	120.30
26	BB	2862	G	N7-C8-N9	9.65	117.92	113.10
1	AA	483	C	C5'-C4'-O4'	9.64	120.67	109.10
1	AA	557	G	C8-N9-C4	-9.64	102.54	106.40
1	AA	705	G	N1-C6-O6	-9.64	114.11	119.90
21	AU	71	ASP	CB-CG-OD2	-9.64	109.62	118.30
25	BA	110	C	N1-C2-O2	9.64	124.69	118.90
26	BB	2269	G	C4-C5-C6	9.64	124.59	118.80
1	AA	187	G	O4'-C1'-N9	9.64	115.91	108.20
1	AA	1217	C	O4'-C1'-N1	9.64	115.91	108.20
1	AA	1484	C	N3-C2-O2	-9.64	115.15	121.90
26	BB	778	G	C6-N1-C2	-9.64	119.32	125.10
26	BB	1235	G	C4-C5-N7	-9.64	106.94	110.80
1	AA	427	U	C5-C6-N1	-9.64	117.88	122.70
4	AD	9	G	C2-N3-C4	9.64	116.72	111.90
4	AD	69	C	N1-C2-O2	9.64	124.68	118.90
17	AQ	52	ARG	NE-CZ-NH2	-9.64	115.48	120.30
26	BB	1022	G	C3'-C2'-C1'	-9.64	93.79	101.50
26	BB	1295	C	C2-N3-C4	9.64	124.72	119.90
26	BB	2235	G	C4-C5-N7	-9.64	106.94	110.80
26	BB	1469	A	C4-C5-N7	9.64	115.52	110.70
26	BB	1732	C	C4-C5-C6	9.64	122.22	117.40
29	BE	46	ARG	NE-CZ-NH1	9.64	125.12	120.30
1	AA	1260	G	C5-C6-N1	9.63	116.32	111.50
26	BB	817	C	N3-C2-O2	-9.63	115.16	121.90
26	BB	1920	C	O4'-C4'-C3'	9.64	113.81	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1117	A	C5-C6-N1	9.63	122.52	117.70
14	AN	17	ASP	CB-CG-OD2	-9.63	109.63	118.30
26	BB	2884	U	C5'-C4'-O4'	9.63	120.66	109.10
1	AA	448	A	C3'-C2'-C1'	9.63	109.20	101.50
1	AA	711	G	N3-C4-C5	-9.63	123.78	128.60
26	BB	327	G	C8-N9-C4	-9.63	102.55	106.40
26	BB	1125	G	N7-C8-N9	9.63	117.92	113.10
26	BB	2101	A	N7-C8-N9	9.63	118.61	113.80
26	BB	2772	C	C5-C6-N1	9.63	125.81	121.00
1	AA	987	G	C8-N9-C4	-9.63	102.55	106.40
1	AA	1331	G	C2-N3-C4	9.63	116.71	111.90
26	BB	136	G	N3-C4-C5	-9.63	123.79	128.60
26	BB	254	G	N3-C4-N9	9.63	131.78	126.00
26	BB	934	U	N1-C1'-C2'	-9.63	101.41	112.00
1	AA	592	G	C4-C5-N7	-9.62	106.95	110.80
1	AA	1385	G	C8-N9-C4	-9.63	102.55	106.40
26	BB	1168	G	C5-C6-O6	9.62	134.37	128.60
26	BB	2048	G	C6-N1-C2	-9.62	119.33	125.10
26	BB	216	A	C1'-O4'-C4'	-9.62	102.20	109.90
26	BB	857	G	C4-C5-N7	-9.62	106.95	110.80
26	BB	2644	G	C6-C5-N7	-9.62	124.63	130.40
34	BJ	30	ARG	NE-CZ-NH1	9.62	125.11	120.30
26	BB	2464	G	C2-N3-C4	9.62	116.71	111.90
26	BB	188	G	C5-C6-N1	9.62	116.31	111.50
26	BB	797	G	C6-C5-N7	-9.62	124.63	130.40
26	BB	1358	G	N3-C4-C5	-9.62	123.79	128.60
1	AA	1064	G	N3-C4-C5	-9.62	123.79	128.60
26	BB	1095	A	O4'-C1'-N9	9.62	115.89	108.20
26	BB	1510	G	C4-C5-N7	-9.62	106.95	110.80
26	BB	2442	C	N3-C2-O2	-9.62	115.17	121.90
1	AA	1319	A	N7-C8-N9	9.61	118.61	113.80
26	BB	1753	G	N7-C8-N9	9.61	117.91	113.10
26	BB	2102	G	N1-C2-N3	-9.61	118.13	123.90
1	AA	4	U	O4'-C1'-N1	9.61	115.89	108.20
1	AA	220	G	C4-C5-N7	-9.61	106.96	110.80
26	BB	811	U	C1'-O4'-C4'	-9.61	102.21	109.90
26	BB	1731	G	C8-N9-C4	-9.61	102.56	106.40
26	BB	585	G	O4'-C1'-N9	9.61	115.89	108.20
26	BB	1381	G	C5-C6-O6	-9.61	122.84	128.60
26	BB	2193	G	N3-C4-C5	-9.61	123.80	128.60
26	BB	2484	G	C5-N7-C8	-9.61	99.50	104.30
6	AF	202	PHE	CB-CG-CD2	-9.60	114.08	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	307	C	O4'-C1'-N1	9.60	115.88	108.20
1	AA	765	G	C5-C6-N1	9.60	116.30	111.50
26	BB	695	G	N7-C8-N9	-9.60	108.30	113.10
1	AA	644	U	O4'-C1'-N1	9.60	115.88	108.20
26	BB	1067	A	C5-N7-C8	-9.60	99.10	103.90
58	B7	24	ARG	NE-CZ-NH1	-9.60	115.50	120.30
1	AA	598	U	C5-C4-O4	-9.60	120.14	125.90
26	BB	1619	G	N7-C8-N9	9.60	117.90	113.10
26	BB	323	C	N3-C2-O2	-9.60	115.18	121.90
26	BB	1010	A	N9-C4-C5	9.60	109.64	105.80
26	BB	2527	C	N3-C4-C5	9.60	125.74	121.90
1	AA	307	C	C5-C6-N1	-9.59	116.20	121.00
1	AA	449	G	O4'-C1'-N9	9.59	115.87	108.20
1	AA	1245	C	C4-C5-C6	9.59	122.20	117.40
26	BB	62	U	C5-C4-O4	-9.59	120.15	125.90
26	BB	377	G	N1-C2-N3	-9.59	118.15	123.90
26	BB	990	A	C4'-C3'-C2'	9.59	112.19	102.60
26	BB	1209	U	C1'-O4'-C4'	9.59	117.57	109.90
1	AA	306	A	N1-C6-N6	-9.59	112.85	118.60
1	AA	173	U	C2-N3-C4	-9.59	121.25	127.00
1	AA	1500	A	C8-N9-C4	9.59	109.64	105.80
26	BB	1455	G	C6-C5-N7	-9.59	124.65	130.40
26	BB	1489	C	N3-C4-C5	9.59	125.73	121.90
26	BB	2413	G	C2-N3-C4	-9.59	107.11	111.90
1	AA	1489	G	C5-N7-C8	9.59	109.09	104.30
2	AB	33	U	O4'-C1'-N1	9.59	115.87	108.20
26	BB	179	C	O4'-C1'-N1	9.59	115.87	108.20
26	BB	458	G	C8-N9-C4	-9.59	102.56	106.40
26	BB	615	U	N3-C2-O2	-9.59	115.49	122.20
26	BB	764	A	C3'-C2'-C1'	-9.59	93.83	101.50
26	BB	2120	G	C4-C5-N7	-9.59	106.97	110.80
18	AR	62	ARG	NE-CZ-NH2	-9.58	115.51	120.30
26	BB	409	G	C2-N3-C4	9.58	116.69	111.90
26	BB	1270	C	N1-C2-O2	9.58	124.65	118.90
26	BB	2740	A	C3'-C2'-C1'	-9.58	93.83	101.50
1	AA	718	A	O4'-C1'-N9	9.58	115.86	108.20
3	AC	19	A	C5-C6-N1	-9.58	112.91	117.70
26	BB	145	C	O4'-C1'-N1	9.58	115.86	108.20
26	BB	248	G	N3-C4-N9	9.58	131.75	126.00
26	BB	1321	A	C2-N3-C4	9.58	115.39	110.60
26	BB	2222	C	C5-C4-N4	-9.58	113.49	120.20
1	AA	865	A	C8-N9-C4	-9.58	101.97	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	998	C	N1-C2-O2	9.58	124.65	118.90
1	AA	1306	A	N7-C8-N9	9.58	118.59	113.80
4	AD	1	C	C4-C5-C6	-9.58	112.61	117.40
26	BB	610	C	C6-N1-C2	9.58	124.13	120.30
26	BB	781	A	N7-C8-N9	9.58	118.59	113.80
1	AA	163	C	C6-N1-C2	-9.57	116.47	120.30
1	AA	998	C	N1-C2-N3	-9.57	112.50	119.20
1	AA	1051	C	O4'-C4'-C3'	9.57	113.76	106.10
26	BB	122	G	C5-C6-O6	-9.57	122.86	128.60
26	BB	1215	G	O4'-C1'-N9	9.57	115.86	108.20
26	BB	2359	C	C6-N1-C2	-9.57	116.47	120.30
26	BB	1613	G	C4-C5-N7	-9.57	106.97	110.80
1	AA	728	A	C8-N9-C4	-9.57	101.97	105.80
1	AA	745	G	N9-C4-C5	9.57	109.23	105.40
3	AC	28	U	N3-C4-O4	9.57	126.10	119.40
26	BB	321	U	O4'-C1'-C2'	-9.57	96.23	105.80
1	AA	1091	U	N3-C2-O2	-9.57	115.50	122.20
26	BB	1185	G	N9-C4-C5	9.57	109.23	105.40
26	BB	1207	C	C6-N1-C2	-9.57	116.47	120.30
26	BB	2015	A	C4-C5-N7	9.57	115.48	110.70
26	BB	2138	G	O4'-C1'-N9	9.57	115.86	108.20
26	BB	2486	C	C6-N1-C2	-9.57	116.47	120.30
1	AA	733	G	N9-C4-C5	9.57	109.23	105.40
26	BB	1	G	C8-N9-C4	-9.57	102.57	106.40
1	AA	1154	G	N3-C4-N9	9.57	131.74	126.00
18	AR	14	PHE	CB-CG-CD2	-9.57	114.10	120.80
26	BB	1293	C	O4'-C1'-N1	9.57	115.85	108.20
26	BB	1649	G	N9-C4-C5	9.57	109.23	105.40
26	BB	2758	A	C2-N3-C4	-9.57	105.82	110.60
1	AA	283	U	C5-C6-N1	-9.56	117.92	122.70
1	AA	289	G	C6-N1-C2	-9.56	119.36	125.10
26	BB	1258	U	C5-C6-N1	-9.56	117.92	122.70
26	BB	2043	C	C2-N3-C4	9.56	124.68	119.90
1	AA	362	G	C5-C6-N1	9.56	116.28	111.50
26	BB	1261	C	O4'-C4'-C3'	9.56	113.75	106.10
1	AA	323	U	C4-C5-C6	9.56	125.44	119.70
1	AA	506	G	N7-C8-N9	9.56	117.88	113.10
1	AA	551	U	C5-C6-N1	-9.56	117.92	122.70
26	BB	649	G	N3-C4-C5	-9.56	123.82	128.60
26	BB	2670	A	C4'-C3'-C2'	-9.56	93.04	102.60
1	AA	590	U	O4'-C1'-N1	9.56	115.85	108.20
26	BB	2559	C	O4'-C1'-N1	9.56	115.85	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1055	A	O4'-C1'-N9	9.56	115.85	108.20
26	BB	1517	G	N1-C2-N2	9.56	124.80	116.20
26	BB	1540	G	C5-C6-O6	-9.56	122.86	128.60
26	BB	682	G	O4'-C1'-N9	9.56	115.84	108.20
26	BB	751	A	C5-N7-C8	-9.56	99.12	103.90
1	AA	774	G	N1-C2-N2	9.56	124.80	116.20
2	AB	40	C	C2-N3-C4	-9.56	115.12	119.90
26	BB	2738	A	N9-C4-C5	9.56	109.62	105.80
1	AA	936	C	C5-C4-N4	-9.55	113.51	120.20
1	AA	1470	U	C4-C5-C6	9.55	125.43	119.70
25	BA	49	C	C6-N1-C2	-9.55	116.48	120.30
1	AA	885	G	N3-C4-C5	-9.55	123.83	128.60
26	BB	836	G	N3-C4-C5	-9.55	123.82	128.60
26	BB	1786	A	C5-N7-C8	-9.55	99.12	103.90
26	BB	1896	G	C5-N7-C8	-9.55	99.52	104.30
26	BB	1992	G	N7-C8-N9	9.55	117.88	113.10
1	AA	1257	A	N9-C4-C5	-9.55	101.98	105.80
3	AC	48	C	N1-C2-O2	9.55	124.63	118.90
26	BB	1556	C	N3-C4-N4	9.55	124.68	118.00
3	AC	29	G	O4'-C1'-N9	9.55	115.84	108.20
26	BB	788	A	C6-N1-C2	9.55	124.33	118.60
26	BB	1971	U	C5-C6-N1	-9.55	117.93	122.70
1	AA	597	G	N3-C4-C5	-9.55	123.83	128.60
1	AA	754	C	C6-N1-C2	-9.54	116.48	120.30
2	AB	27	C	N3-C4-C5	-9.54	118.08	121.90
26	BB	205	G	N7-C8-N9	9.54	117.87	113.10
26	BB	238	C	N3-C4-C5	-9.54	118.08	121.90
2	AB	47	U	C4-C5-C6	9.54	125.43	119.70
26	BB	291	G	C2-N3-C4	9.54	116.67	111.90
26	BB	334	C	C2-N3-C4	9.54	124.67	119.90
26	BB	623	C	O4'-C1'-N1	9.54	115.83	108.20
26	BB	2608	G	C1'-O4'-C4'	-9.54	102.27	109.90
1	AA	189	A	N9-C4-C5	-9.54	101.98	105.80
26	BB	1288	G	O4'-C1'-N9	9.54	115.83	108.20
26	BB	2044	C	O4'-C1'-N1	9.54	115.83	108.20
26	BB	2269	G	C2-N3-C4	9.54	116.67	111.90
1	AA	1378	C	N3-C4-C5	-9.54	118.08	121.90
2	AB	3	G	N9-C4-C5	9.54	109.22	105.40
5	AE	136	ARG	NE-CZ-NH2	-9.54	115.53	120.30
1	AA	1133	G	C5-C6-N1	9.54	116.27	111.50
26	BB	985	C	C5-C6-N1	9.54	125.77	121.00
26	BB	1463	C	N1-C2-O2	9.54	124.62	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1656	C	N3-C2-O2	-9.54	115.22	121.90
26	BB	221	A	C2-N3-C4	9.54	115.37	110.60
1	AA	88	U	N1-C1'-C2'	9.53	126.39	114.00
1	AA	901	A	C2-N3-C4	9.54	115.37	110.60
26	BB	110	G	N9-C1'-C2'	-9.54	101.51	112.00
6	AF	142	ARG	NE-CZ-NH2	9.53	125.07	120.30
26	BB	1120	G	C4-C5-N7	9.53	114.61	110.80
26	BB	1726	C	N3-C4-C5	-9.53	118.09	121.90
4	AD	66	C	O4'-C1'-N1	9.53	115.82	108.20
26	BB	1445	G	O4'-C1'-N9	9.53	115.82	108.20
26	BB	2325	G	N9-C4-C5	9.53	109.21	105.40
26	BB	1277	G	C8-N9-C4	-9.53	102.59	106.40
26	BB	1687	G	C8-N9-C4	-9.53	102.59	106.40
25	BA	5	U	O4'-C1'-N1	9.53	115.82	108.20
1	AA	954	G	O4'-C1'-N9	9.53	115.82	108.20
26	BB	838	C	C2-N3-C4	9.53	124.66	119.90
26	BB	1147	A	C8-N9-C4	-9.53	101.99	105.80
26	BB	2120	G	O4'-C1'-N9	9.53	115.82	108.20
26	BB	1475	G	N9-C4-C5	9.52	109.21	105.40
26	BB	2437	G	O4'-C1'-N9	9.52	115.82	108.20
26	BB	2545	G	N9-C4-C5	9.52	109.21	105.40
1	AA	722	G	C1'-O4'-C4'	-9.52	102.28	109.90
26	BB	241	A	C5-N7-C8	-9.52	99.14	103.90
26	BB	1214	A	C8-N9-C4	-9.52	101.99	105.80
1	AA	896	C	O4'-C1'-N1	9.52	115.81	108.20
26	BB	2154	A	N1-C2-N3	9.52	134.06	129.30
1	AA	1439	G	N3-C4-C5	-9.52	123.84	128.60
3	AC	24	A	C4-C5-N7	-9.52	105.94	110.70
26	BB	298	G	C5-N7-C8	-9.52	99.54	104.30
1	AA	941	G	N1-C6-O6	9.51	125.61	119.90
26	BB	1045	C	N3-C4-C5	-9.51	118.09	121.90
1	AA	36	C	C6-N1-C2	9.51	124.10	120.30
1	AA	686	U	N3-C2-O2	-9.51	115.54	122.20
3	AC	28	U	C5-C4-O4	-9.51	120.19	125.90
26	BB	2791	G	C1'-O4'-C4'	-9.51	102.29	109.90
1	AA	1290	G	C5-C6-N1	9.51	116.25	111.50
1	AA	1491	G	C6-N1-C2	-9.51	119.40	125.10
26	BB	1790	C	N3-C4-C5	-9.51	118.10	121.90
1	AA	227	G	N9-C4-C5	9.50	109.20	105.40
1	AA	459	A	N3-C4-C5	9.50	133.45	126.80
26	BB	2086	U	C5-C6-N1	-9.50	117.95	122.70
1	AA	205	A	O4'-C1'-N9	9.50	115.80	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1408	A	C6-C5-N7	9.50	138.95	132.30
1	AA	803	G	C4-C5-N7	9.50	114.60	110.80
26	BB	65	U	C4-C5-C6	9.50	125.40	119.70
26	BB	351	C	C4-C5-C6	9.50	122.15	117.40
26	BB	450	G	N3-C2-N2	9.50	126.55	119.90
26	BB	984	A	N9-C4-C5	9.50	109.60	105.80
26	BB	1658	C	N1-C2-O2	9.50	124.60	118.90
1	AA	264	C	O4'-C1'-N1	9.50	115.80	108.20
2	AB	24	G	C5'-C4'-O4'	9.50	120.50	109.10
26	BB	207	A	N1-C6-N6	-9.50	112.90	118.60
26	BB	548	G	C5-N7-C8	-9.50	99.55	104.30
26	BB	818	G	C5-C6-N1	9.50	116.25	111.50
26	BB	1140	C	C5-C6-N1	9.50	125.75	121.00
1	AA	310	G	N7-C8-N9	9.49	117.85	113.10
1	AA	364	A	N3-C4-C5	9.49	133.45	126.80
1	AA	731	G	N1-C6-O6	9.49	125.60	119.90
1	AA	932	C	O4'-C4'-C3'	9.49	113.70	106.10
18	AR	16	ARG	NE-CZ-NH2	-9.49	115.55	120.30
1	AA	877	G	O4'-C1'-N9	9.49	115.80	108.20
26	BB	474	G	C4-C5-N7	9.49	114.60	110.80
26	BB	1978	A	C8-N9-C4	-9.49	102.00	105.80
26	BB	2477	U	N1-C2-N3	9.49	120.60	114.90
1	AA	1147	C	C5-C6-N1	9.49	125.75	121.00
26	BB	26	G	C4-C5-C6	9.49	124.50	118.80
1	AA	163	C	C5-C6-N1	9.49	125.75	121.00
26	BB	1333	G	N3-C2-N2	-9.49	113.26	119.90
26	BB	2003	A	C4-C5-C6	-9.49	112.25	117.00
26	BB	2353	G	N7-C8-N9	9.49	117.84	113.10
1	AA	557	G	N3-C4-C5	-9.49	123.86	128.60
26	BB	1338	G	N3-C4-C5	-9.49	123.86	128.60
1	AA	902	G	C5-N7-C8	-9.49	99.56	104.30
1	AA	1122	U	O4'-C1'-N1	9.49	115.79	108.20
1	AA	1493	A	C5-N7-C8	-9.49	99.16	103.90
15	AO	109	ARG	NE-CZ-NH2	-9.49	115.56	120.30
26	BB	1736	U	O4'-C1'-N1	9.49	115.79	108.20
26	BB	2025	C	N1-C2-O2	9.49	124.59	118.90
1	AA	65	A	N1-C2-N3	-9.48	124.56	129.30
1	AA	1097	C	C1'-O4'-C4'	9.48	117.49	109.90
1	AA	1134	G	C4-C5-N7	9.48	114.59	110.80
3	AC	19	A	N1-C6-N6	9.48	124.29	118.60
26	BB	2591	C	O4'-C1'-N1	9.48	115.79	108.20
26	BB	4	U	N3-C4-O4	9.48	126.04	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	128	C	C3'-C2'-C1'	9.48	109.09	101.50
26	BB	1638	C	N3-C2-O2	-9.48	115.26	121.90
26	BB	1752	C	O4'-C1'-N1	9.48	115.79	108.20
26	BB	1984	G	C4-C5-N7	-9.48	107.01	110.80
26	BB	814	C	C2-N3-C4	9.48	124.64	119.90
26	BB	1062	G	N3-C4-C5	-9.48	123.86	128.60
26	BB	338	G	N3-C4-C5	-9.48	123.86	128.60
26	BB	529	A	C1'-O4'-C4'	-9.48	102.32	109.90
26	BB	2351	G	C6-N1-C2	-9.48	119.41	125.10
26	BB	2577	A	O4'-C1'-N9	9.48	115.78	108.20
1	AA	672	U	C4-C5-C6	9.47	125.38	119.70
1	AA	894	G	C5-N7-C8	-9.47	99.56	104.30
1	AA	1145	A	N7-C8-N9	9.47	118.54	113.80
25	BA	3	C	N3-C2-O2	-9.47	115.27	121.90
26	BB	1657	U	C4-C5-C6	9.47	125.38	119.70
26	BB	2221	G	C4-C5-N7	9.47	114.59	110.80
26	BB	2283	C	O4'-C1'-N1	9.47	115.78	108.20
26	BB	2649	C	O4'-C1'-N1	9.47	115.78	108.20
26	BB	122	G	C5-N7-C8	9.47	109.04	104.30
26	BB	1370	C	N3-C4-C5	-9.47	118.11	121.90
26	BB	1622	G	N7-C8-N9	9.47	117.84	113.10
26	BB	1448	G	C3'-C2'-C1'	-9.47	93.92	101.50
26	BB	2444	G	C5-C6-N1	9.47	116.23	111.50
26	BB	2491	U	O4'-C1'-N1	9.47	115.78	108.20
26	BB	2364	C	N3-C4-N4	9.47	124.63	118.00
1	AA	754	C	C5-C4-N4	-9.47	113.57	120.20
26	BB	790	U	C5-C6-N1	-9.46	117.97	122.70
26	BB	948	C	O4'-C1'-N1	9.46	115.77	108.20
26	BB	1006	C	N3-C4-C5	9.46	125.69	121.90
26	BB	1084	A	N1-C6-N6	9.46	124.28	118.60
26	BB	2692	G	C8-N9-C4	-9.46	102.61	106.40
1	AA	19	A	C5-N7-C8	9.46	108.63	103.90
1	AA	465	A	C6-N1-C2	9.46	124.28	118.60
1	AA	951	G	C5-C6-N1	9.46	116.23	111.50
26	BB	109	C	N1-C2-O2	9.46	124.58	118.90
26	BB	187	G	C2-N3-C4	9.46	116.63	111.90
26	BB	1346	G	C2-N3-C4	-9.46	107.17	111.90
26	BB	1734	G	C5-C6-O6	-9.46	122.92	128.60
26	BB	132	G	N1-C2-N3	-9.46	118.23	123.90
26	BB	2727	A	C5-N7-C8	-9.46	99.17	103.90
26	BB	171	U	N1-C2-N3	9.45	120.57	114.90
26	BB	619	G	N7-C8-N9	9.45	117.83	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	882	G	N1-C2-N3	-9.45	118.23	123.90
26	BB	2022	U	N3-C2-O2	-9.45	115.58	122.20
26	BB	2049	G	C6-C5-N7	-9.45	124.73	130.40
4	AD	77	A	O4'-C1'-N9	9.45	115.76	108.20
26	BB	518	G	C8-N9-C4	-9.45	102.62	106.40
26	BB	1456	G	N7-C8-N9	9.45	117.83	113.10
26	BB	1540	G	N3-C4-C5	-9.45	123.87	128.60
26	BB	1862	G	C2-N3-C4	9.45	116.63	111.90
26	BB	2780	G	N9-C4-C5	9.45	109.18	105.40
1	AA	1503	A	C1'-O4'-C4'	-9.45	102.34	109.90
1	AA	894	G	C5'-C4'-O4'	9.45	120.44	109.10
1	AA	911	U	P-O3'-C3'	9.45	131.04	119.70
26	BB	2324	U	O4'-C4'-C3'	9.45	113.66	106.10
1	AA	173	U	C4-C5-C6	9.45	125.37	119.70
1	AA	570	G	C4-C5-N7	9.45	114.58	110.80
26	BB	780	G	C4'-C3'-C2'	-9.45	93.15	102.60
26	BB	1311	G	N3-C2-N2	-9.45	113.29	119.90
1	AA	1169	A	N3-C4-C5	-9.44	120.19	126.80
26	BB	298	G	N1-C6-O6	-9.45	114.23	119.90
26	BB	784	G	N3-C4-C5	-9.45	123.88	128.60
1	AA	778	G	N1-C2-N3	-9.44	118.23	123.90
26	BB	1447	C	N3-C4-C5	-9.44	118.12	121.90
25	BA	86	G	C6-N1-C2	-9.44	119.44	125.10
26	BB	2361	G	C5-C6-N1	9.44	116.22	111.50
2	AB	52	A	O4'-C1'-N9	9.44	115.75	108.20
26	BB	291	G	C4-C5-N7	-9.44	107.03	110.80
26	BB	1179	G	C8-N9-C4	-9.44	102.62	106.40
1	AA	771	G	N1-C6-O6	-9.44	114.24	119.90
3	AC	26	U	C6-N1-C2	9.44	126.66	121.00
25	BA	105	G	O4'-C1'-N9	9.44	115.75	108.20
26	BB	1045	C	C5-C6-N1	9.44	125.72	121.00
26	BB	2072	C	N3-C2-O2	-9.44	115.29	121.90
26	BB	25	U	N3-C2-O2	-9.44	115.60	122.20
26	BB	2528	U	N3-C4-O4	9.44	126.00	119.40
1	AA	94	G	P-O3'-C3'	9.43	131.02	119.70
1	AA	733	G	C8-N9-C4	-9.43	102.63	106.40
1	AA	1071	C	C5-C6-N1	9.43	125.72	121.00
26	BB	196	A	C8-N9-C4	-9.43	102.03	105.80
26	BB	421	C	C4-C5-C6	-9.43	112.68	117.40
26	BB	1219	U	C4-C5-C6	9.43	125.36	119.70
26	BB	1587	G	N3-C4-C5	-9.43	123.88	128.60
26	BB	2353	G	N9-C4-C5	9.43	109.17	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2741	A	N9-C4-C5	9.43	109.57	105.80
26	BB	2867	G	N7-C8-N9	-9.43	108.38	113.10
1	AA	604	G	C4'-C3'-C2'	-9.43	93.17	102.60
26	BB	437	U	C2-N3-C4	-9.43	121.34	127.00
26	BB	2463	C	N3-C4-N4	9.43	124.60	118.00
1	AA	801	U	O4'-C1'-N1	9.43	115.74	108.20
2	AB	36	A	C4'-C3'-C2'	-9.43	93.17	102.60
1	AA	1288	A	C2-N3-C4	-9.43	105.89	110.60
25	BA	10	G	C5-C6-O6	9.43	134.26	128.60
30	BF	88	ARG	NE-CZ-NH2	9.43	125.01	120.30
1	AA	111	G	N1-C6-O6	-9.43	114.24	119.90
1	AA	293	G	N1-C2-N3	-9.43	118.24	123.90
1	AA	1392	G	C4'-C3'-C2'	-9.43	93.17	102.60
26	BB	1813	G	N3-C4-C5	-9.43	123.89	128.60
26	BB	2860	A	C8-N9-C4	-9.43	102.03	105.80
26	BB	1152	C	C2-N3-C4	-9.43	115.19	119.90
26	BB	1189	A	N9-C4-C5	-9.43	102.03	105.80
26	BB	1666	G	C6-N1-C2	-9.43	119.44	125.10
26	BB	2518	A	P-O3'-C3'	9.43	131.01	119.70
26	BB	2835	A	N1-C2-N3	-9.43	124.59	129.30
49	BY	40	ARG	NE-CZ-NH2	-9.43	115.59	120.30
1	AA	68	G	N3-C4-N9	9.42	131.65	126.00
2	AB	66	C	O4'-C1'-N1	9.42	115.74	108.20
26	BB	677	A	N9-C4-C5	9.42	109.57	105.80
26	BB	1776	G	C2-N3-C4	9.42	116.61	111.90
26	BB	2263	C	C2-N3-C4	9.42	124.61	119.90
26	BB	271	G	N9-C4-C5	9.42	109.17	105.40
26	BB	704	G	N7-C8-N9	9.42	117.81	113.10
26	BB	1815	A	C2-N3-C4	9.42	115.31	110.60
26	BB	2891	U	N3-C4-C5	-9.42	108.95	114.60
1	AA	87	C	C4-C5-C6	9.42	122.11	117.40
1	AA	838	G	O4'-C1'-N9	9.42	115.74	108.20
1	AA	1366	C	N1-C2-O2	9.42	124.55	118.90
26	BB	510	C	N1-C2-N3	-9.42	112.61	119.20
26	BB	2230	G	C4-C5-N7	-9.42	107.03	110.80
26	BB	2578	G	N3-C4-N9	9.42	131.65	126.00
28	BD	170	TYR	CB-CG-CD1	-9.42	115.35	121.00
1	AA	82	G	C8-N9-C4	-9.41	102.63	106.40
1	AA	604	G	C4-C5-N7	-9.41	107.03	110.80
26	BB	811	U	C5-C6-N1	-9.41	117.99	122.70
26	BB	1507	C	C5-C6-N1	9.41	125.71	121.00
26	BB	2271	G	C4-C5-N7	-9.41	107.03	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2387	U	N3-C4-O4	9.41	125.99	119.40
26	BB	2511	U	N3-C4-O4	9.41	125.99	119.40
26	BB	2811	G	N1-C2-N3	-9.41	118.25	123.90
26	BB	2309	A	N7-C8-N9	-9.41	109.09	113.80
26	BB	2106	U	N1-C2-N3	9.41	120.55	114.90
1	AA	758	C	C6-N1-C2	-9.41	116.54	120.30
7	AG	43	ARG	NE-CZ-NH2	-9.41	115.59	120.30
7	AG	134	TYR	CG-CD2-CE2	-9.41	113.77	121.30
26	BB	762	U	P-O3'-C3'	9.41	130.99	119.70
26	BB	81	G	C8-N9-C4	-9.41	102.64	106.40
26	BB	1516	G	O4'-C1'-N9	9.41	115.73	108.20
1	AA	1112	C	C2-N3-C4	-9.41	115.20	119.90
1	AA	1393	U	C5-C4-O4	-9.41	120.26	125.90
26	BB	671	C	C2-N3-C4	-9.41	115.20	119.90
26	BB	1061	U	O4'-C1'-N1	9.41	115.73	108.20
1	AA	276	G	C2-N3-C4	-9.40	107.20	111.90
4	AD	4	G	C8-N9-C4	-9.40	102.64	106.40
26	BB	1161	C	C5-C6-N1	9.40	125.70	121.00
26	BB	2592	G	N3-C4-C5	-9.40	123.90	128.60
1	AA	572	A	N1-C2-N3	-9.40	124.60	129.30
1	AA	1029	U	N3-C2-O2	-9.40	115.62	122.20
26	BB	989	G	O4'-C1'-N9	9.40	115.72	108.20
26	BB	1513	U	C5-C6-N1	9.40	127.40	122.70
26	BB	2820	A	C2-N3-C4	9.40	115.30	110.60
1	AA	339	C	C6-N1-C2	9.40	124.06	120.30
1	AA	932	C	C1'-O4'-C4'	-9.40	102.38	109.90
1	AA	1133	G	N1-C2-N3	-9.40	118.26	123.90
1	AA	1301	U	C5-C4-O4	-9.40	120.26	125.90
26	BB	1177	G	C5-C6-O6	-9.40	122.96	128.60
25	BA	35	C	N3-C2-O2	-9.40	115.32	121.90
26	BB	787	C	C5-C6-N1	9.40	125.70	121.00
26	BB	1595	C	C6-N1-C2	-9.40	116.54	120.30
26	BB	1997	C	N1-C1'-C2'	-9.40	101.66	112.00
26	BB	2581	G	N9-C4-C5	9.40	109.16	105.40
26	BB	2801	G	N3-C4-C5	-9.40	123.90	128.60
25	BA	75	G	N9-C4-C5	9.40	109.16	105.40
26	BB	1495	A	N9-C4-C5	-9.40	102.04	105.80
26	BB	1588	G	C6-N1-C2	-9.40	119.46	125.10
1	AA	581	G	N9-C4-C5	9.39	109.16	105.40
1	AA	765	G	N7-C8-N9	9.39	117.80	113.10
26	BB	685	A	C8-N9-C4	-9.39	102.04	105.80
26	BB	2568	U	O4'-C1'-N1	9.39	115.72	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2609	U	N3-C4-O4	9.39	125.98	119.40
26	BB	738	G	N3-C2-N2	-9.39	113.33	119.90
1	AA	563	A	C5-C6-N1	9.39	122.39	117.70
1	AA	840	C	C5'-C4'-O4'	9.39	120.37	109.10
26	BB	178	G	O4'-C1'-N9	9.39	115.71	108.20
26	BB	250	G	C8-N9-C4	-9.39	102.64	106.40
26	BB	659	G	C8-N9-C4	9.39	110.16	106.40
26	BB	1209	U	O4'-C4'-C3'	-9.39	94.61	104.00
1	AA	545	C	N3-C4-C5	-9.39	118.14	121.90
1	AA	1441	A	C4-C5-N7	-9.39	106.01	110.70
26	BB	730	A	N9-C4-C5	9.39	109.56	105.80
26	BB	1421	G	C2-N3-C4	9.39	116.59	111.90
26	BB	1983	G	O4'-C1'-N9	9.39	115.71	108.20
26	BB	2617	U	N3-C2-O2	-9.39	115.63	122.20
1	AA	987	G	C4-C5-N7	-9.38	107.05	110.80
2	AB	73	G	N3-C4-C5	-9.38	123.91	128.60
26	BB	564	C	O4'-C1'-N1	9.38	115.71	108.20
26	BB	1280	G	C2-N3-C4	9.39	116.59	111.90
26	BB	1337	G	C4-C5-N7	-9.38	107.05	110.80
26	BB	1696	G	C6-C5-N7	-9.39	124.77	130.40
1	AA	547	A	C5-C6-N1	9.38	122.39	117.70
1	AA	785	G	C6-N1-C2	-9.38	119.47	125.10
1	AA	1322	C	C6-N1-C2	-9.38	116.55	120.30
26	BB	2537	U	N3-C2-O2	-9.38	115.63	122.20
25	BA	114	C	C5-C4-N4	9.38	126.77	120.20
26	BB	2700	A	C2-N3-C4	9.38	115.29	110.60
26	BB	2891	U	N3-C4-O4	9.38	125.97	119.40
1	AA	64	G	O4'-C1'-N9	9.38	115.70	108.20
1	AA	109	A	O4'-C4'-C3'	9.38	113.60	106.10
26	BB	60	G	C8-N9-C4	-9.38	102.65	106.40
26	BB	808	G	N7-C8-N9	9.38	117.79	113.10
26	BB	1539	U	C5'-C4'-O4'	9.38	120.36	109.10
26	BB	2266	A	C3'-C2'-C1'	9.38	109.00	101.50
26	BB	2835	A	C4'-C3'-C2'	-9.38	93.22	102.60
1	AA	1529	G	N3-C4-C5	-9.38	123.91	128.60
25	BA	59	A	C8-N9-C4	-9.38	102.05	105.80
34	BJ	124	ARG	NE-CZ-NH2	-9.38	115.61	120.30
1	AA	289	G	O4'-C1'-N9	9.38	115.70	108.20
1	AA	613	C	O4'-C1'-N1	9.38	115.70	108.20
26	BB	733	G	C3'-C2'-C1'	-9.37	94.00	101.50
26	BB	2156	G	O4'-C1'-N9	9.38	115.70	108.20
26	BB	1850	G	N1-C2-N3	-9.37	118.28	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1688	U	O4'-C1'-N1	9.37	115.70	108.20
26	BB	2298	A	C5-C6-N1	9.37	122.39	117.70
26	BB	2150	C	O4'-C1'-N1	9.37	115.69	108.20
26	BB	2234	G	C5-N7-C8	-9.37	99.61	104.30
26	BB	2573	C	N3-C2-O2	-9.37	115.34	121.90
1	AA	1130	A	N1-C2-N3	-9.37	124.62	129.30
26	BB	207	A	C5'-C4'-O4'	9.37	120.34	109.10
26	BB	949	G	N9-C4-C5	9.37	109.15	105.40
17	AQ	74	ARG	NE-CZ-NH2	-9.37	115.62	120.30
25	BA	89	U	C2-N3-C4	-9.37	121.38	127.00
26	BB	613	A	N7-C8-N9	9.36	118.48	113.80
26	BB	1227	G	C8-N9-C4	9.37	110.15	106.40
26	BB	1581	G	N3-C2-N2	9.37	126.46	119.90
26	BB	1943	U	C2-N3-C4	-9.37	121.38	127.00
1	AA	396	C	O4'-C1'-N1	9.36	115.69	108.20
1	AA	608	A	C4-C5-C6	-9.36	112.32	117.00
26	BB	107	G	C5-C6-O6	-9.36	122.98	128.60
26	BB	1852	U	N1-C2-N3	9.36	120.52	114.90
26	BB	1653	G	C8-N9-C4	-9.36	102.66	106.40
26	BB	1824	G	C8-N9-C4	-9.36	102.66	106.40
1	AA	1325	C	C5-C4-N4	-9.36	113.65	120.20
1	AA	130	A	C8-N9-C4	-9.36	102.06	105.80
1	AA	753	A	O4'-C1'-N9	9.36	115.69	108.20
26	BB	240	C	C6-N1-C2	-9.36	116.56	120.30
26	BB	1378	A	O4'-C1'-N9	9.36	115.69	108.20
26	BB	2590	A	O4'-C1'-N9	9.36	115.69	108.20
26	BB	1646	C	C5-C6-N1	9.36	125.68	121.00
1	AA	285	C	N3-C4-C5	-9.36	118.16	121.90
1	AA	505	G	N3-C2-N2	9.36	126.45	119.90
4	AD	71	G	O4'-C1'-N9	9.36	115.69	108.20
26	BB	499	U	N3-C4-C5	9.36	120.21	114.60
26	BB	1493	C	C5-C6-N1	9.36	125.68	121.00
1	AA	177	G	C6-N1-C2	-9.35	119.49	125.10
1	AA	251	G	O4'-C1'-N9	9.35	115.68	108.20
1	AA	479	U	C2-N3-C4	-9.35	121.39	127.00
26	BB	253	C	N1-C2-O2	9.35	124.51	118.90
26	BB	1830	C	N3-C4-C5	-9.35	118.16	121.90
1	AA	477	C	C5-C4-N4	-9.35	113.65	120.20
1	AA	1001	C	N3-C4-N4	9.35	124.55	118.00
26	BB	114	U	N3-C4-C5	-9.35	108.99	114.60
26	BB	659	G	N3-C4-C5	-9.35	123.92	128.60
26	BB	1439	A	N1-C6-N6	-9.35	112.99	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1664	A	C8-N9-C4	-9.35	102.06	105.80
26	BB	1689	A	N1-C6-N6	-9.35	112.99	118.60
26	BB	2428	G	N9-C4-C5	9.35	109.14	105.40
1	AA	90	C	C6-N1-C2	-9.35	116.56	120.30
1	AA	112	G	N3-C4-C5	-9.35	123.92	128.60
1	AA	765	G	C5-N7-C8	-9.35	99.62	104.30
26	BB	1052	C	N3-C4-C5	9.35	125.64	121.90
1	AA	1416	G	C2-N3-C4	9.35	116.57	111.90
26	BB	1420	A	N1-C2-N3	-9.35	124.63	129.30
26	BB	1846	G	C4-C5-N7	-9.35	107.06	110.80
1	AA	87	C	C5-C6-N1	-9.35	116.33	121.00
1	AA	1352	C	C4-C5-C6	9.35	122.07	117.40
25	BA	67	G	C5-C6-N1	9.35	116.17	111.50
26	BB	484	C	N1-C2-O2	9.35	124.51	118.90
26	BB	731	C	C5-C6-N1	9.35	125.67	121.00
31	BG	91	ARG	NE-CZ-NH2	9.34	124.97	120.30
26	BB	70	G	N7-C8-N9	9.34	117.77	113.10
26	BB	466	A	C8-N9-C4	-9.34	102.06	105.80
1	AA	26	A	O4'-C1'-N9	9.34	115.67	108.20
1	AA	1408	A	N1-C2-N3	-9.34	124.63	129.30
4	AD	70	C	N3-C4-C5	-9.34	118.16	121.90
1	AA	850	U	C5-C4-O4	-9.34	120.30	125.90
26	BB	261	G	N9-C4-C5	9.34	109.14	105.40
26	BB	826	U	C5-C6-N1	-9.34	118.03	122.70
26	BB	1216	G	N7-C8-N9	-9.34	108.43	113.10
26	BB	1788	C	N3-C4-C5	-9.34	118.16	121.90
1	AA	417	G	C5-C6-O6	-9.34	123.00	128.60
1	AA	1538	C	C4-C5-C6	9.34	122.07	117.40
25	BA	92	C	C6-N1-C2	-9.34	116.56	120.30
26	BB	1564	C	O4'-C1'-N1	9.34	115.67	108.20
1	AA	164	G	C8-N9-C4	-9.33	102.67	106.40
1	AA	475	C	C6-N1-C2	9.33	124.03	120.30
25	BA	82	U	N3-C2-O2	-9.33	115.67	122.20
26	BB	21	A	C5-C6-N6	-9.33	116.23	123.70
26	BB	186	G	N1-C2-N3	-9.33	118.30	123.90
26	BB	265	A	C4-C5-N7	9.33	115.37	110.70
26	BB	1311	G	C6-N1-C2	-9.33	119.50	125.10
26	BB	1948	G	N3-C4-N9	9.33	131.60	126.00
26	BB	2684	U	C6-N1-C2	-9.33	115.40	121.00
26	BB	1382	G	N3-C4-N9	9.33	131.60	126.00
26	BB	1664	A	O4'-C1'-C2'	9.33	116.00	107.60
1	AA	195	A	C4-C5-N7	-9.33	106.04	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1258	G	N9-C4-C5	9.33	109.13	105.40
26	BB	376	G	O4'-C1'-N9	9.33	115.66	108.20
26	BB	939	G	C4'-C3'-C2'	-9.33	93.27	102.60
26	BB	1312	U	N3-C4-O4	9.32	125.93	119.40
1	AA	717	U	N1-C2-N3	9.32	120.49	114.90
26	BB	669	G	N9-C4-C5	9.32	109.13	105.40
26	BB	1156	A	N1-C6-N6	9.32	124.19	118.60
26	BB	1534	U	C5-C4-O4	-9.32	120.31	125.90
26	BB	1779	U	N3-C2-O2	-9.32	115.67	122.20
26	BB	2128	G	N7-C8-N9	9.32	117.76	113.10
16	AP	91	ARG	NE-CZ-NH2	-9.32	115.64	120.30
1	AA	753	A	C5'-C4'-O4'	9.32	120.28	109.10
26	BB	1461	C	O4'-C1'-N1	9.32	115.66	108.20
1	AA	1032	G	O4'-C1'-N9	9.32	115.66	108.20
2	AB	61	C	O4'-C4'-C3'	9.32	113.56	106.10
26	BB	273	G	N3-C4-C5	-9.32	123.94	128.60
26	BB	1310	G	N3-C2-N2	-9.32	113.38	119.90
34	BJ	124	ARG	NE-CZ-NH1	9.32	124.96	120.30
26	BB	1854	A	C3'-C2'-C1'	9.32	108.95	101.50
26	BB	2708	G	C8-N9-C4	-9.32	102.67	106.40
1	AA	31	G	C6-C5-N7	-9.32	124.81	130.40
1	AA	505	G	C5'-C4'-C3'	-9.32	101.09	116.00
1	AA	612	C	N3-C4-C5	-9.32	118.17	121.90
26	BB	679	C	C6-N1-C2	9.32	124.03	120.30
26	BB	2144	G	C8-N9-C4	-9.32	102.67	106.40
1	AA	376	G	C5'-C4'-O4'	9.31	120.28	109.10
1	AA	1426	G	C5-C6-O6	9.31	134.19	128.60
26	BB	1486	U	N1-C2-N3	9.31	120.49	114.90
26	BB	1920	C	N1-C2-O2	9.31	124.49	118.90
26	BB	1951	U	C5-C4-O4	-9.31	120.31	125.90
26	BB	1576	U	N1-C1'-C2'	-9.31	101.76	112.00
1	AA	58	C	C5-C6-N1	9.31	125.66	121.00
1	AA	137	U	N3-C4-O4	9.31	125.92	119.40
1	AA	1526	G	C6-N1-C2	-9.31	119.51	125.10
26	BB	671	C	C1'-O4'-C4'	-9.31	102.45	109.90
26	BB	988	A	C2-N3-C4	9.31	115.25	110.60
26	BB	2208	C	C6-N1-C2	-9.31	116.58	120.30
1	AA	786	G	C4-C5-N7	-9.31	107.08	110.80
1	AA	134	G	N1-C2-N3	-9.31	118.32	123.90
1	AA	860	A	C8-N9-C4	-9.31	102.08	105.80
1	AA	923	A	N3-C4-N9	9.31	134.85	127.40
1	AA	1153	G	C8-N9-C4	-9.31	102.68	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	250	G	N9-C4-C5	9.31	109.12	105.40
26	BB	315	G	N3-C4-C5	-9.31	123.95	128.60
26	BB	2215	C	C2-N3-C4	9.31	124.55	119.90
26	BB	2383	G	N9-C4-C5	9.31	109.12	105.40
26	BB	2811	G	C2-N3-C4	9.31	116.55	111.90
1	AA	1135	U	O4'-C1'-N1	9.31	115.64	108.20
1	AA	1250	A	N1-C2-N3	-9.31	124.65	129.30
26	BB	1179	G	N9-C4-C5	9.31	109.12	105.40
25	BA	82	U	C4'-C3'-C2'	-9.30	93.30	102.60
26	BB	1454	C	C4-C5-C6	-9.30	112.75	117.40
26	BB	486	C	O4'-C1'-N1	9.30	115.64	108.20
26	BB	1741	C	C5-C4-N4	-9.30	113.69	120.20
26	BB	2495	G	C8-N9-C4	-9.30	102.68	106.40
1	AA	529	G	C8-N9-C4	9.30	110.12	106.40
26	BB	532	A	O4'-C1'-N9	9.30	115.64	108.20
26	BB	543	G	N3-C2-N2	-9.30	113.39	119.90
1	AA	990	C	N3-C4-N4	9.30	124.51	118.00
26	BB	184	C	O4'-C1'-N1	9.30	115.64	108.20
26	BB	873	C	C5-C6-N1	9.30	125.65	121.00
26	BB	1978	A	N9-C4-C5	9.30	109.52	105.80
26	BB	2013	A	O4'-C1'-N9	9.30	115.64	108.20
26	BB	2758	A	N9-C4-C5	-9.30	102.08	105.80
39	BO	16	ARG	NE-CZ-NH2	-9.30	115.65	120.30
1	AA	170	U	O4'-C1'-N1	9.30	115.64	108.20
26	BB	710	U	N1-C2-N3	9.30	120.48	114.90
26	BB	1793	C	C5-C4-N4	-9.30	113.69	120.20
1	AA	148	G	C4-C5-C6	9.30	124.38	118.80
1	AA	176	C	N3-C4-C5	-9.30	118.18	121.90
1	AA	260	G	C6-N1-C2	-9.29	119.52	125.10
1	AA	1208	C	N1-C2-O2	9.30	124.48	118.90
1	AA	1426	G	N1-C6-O6	-9.29	114.32	119.90
4	AD	71	G	C6-C5-N7	-9.29	124.82	130.40
26	BB	2265	U	C5'-C4'-O4'	9.29	120.25	109.10
26	BB	2648	G	N9-C4-C5	9.29	109.12	105.40
1	AA	128	G	C6-N1-C2	-9.29	119.53	125.10
1	AA	132	C	C2-N3-C4	9.29	124.55	119.90
1	AA	173	U	C6-N1-C2	-9.29	115.42	121.00
26	BB	55	G	C5-C6-O6	-9.29	123.03	128.60
26	BB	885	C	C3'-C2'-C1'	9.29	108.93	101.50
26	BB	1010	A	C5-N7-C8	-9.29	99.25	103.90
26	BB	2126	A	O4'-C1'-N9	9.29	115.63	108.20
26	BB	2492	U	C2-N3-C4	-9.29	121.43	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	495	A	O4'-C1'-N9	9.29	115.63	108.20
1	AA	907	A	N7-C8-N9	9.29	118.44	113.80
26	BB	851	C	O4'-C1'-N1	9.29	115.63	108.20
26	BB	2346	A	C5-N7-C8	-9.29	99.25	103.90
1	AA	998	C	C6-N1-C2	9.29	124.02	120.30
26	BB	1258	U	C4-C5-C6	9.29	125.27	119.70
1	AA	923	A	C2-N3-C4	9.29	115.24	110.60
1	AA	983	A	C8-N9-C4	-9.29	102.09	105.80
1	AA	1134	G	C5-N7-C8	-9.29	99.66	104.30
1	AA	1369	C	P-O3'-C3'	9.29	130.84	119.70
26	BB	2797	U	O4'-C1'-N1	9.29	115.63	108.20
1	AA	92	U	O4'-C1'-N1	9.28	115.63	108.20
1	AA	763	G	C8-N9-C4	-9.28	102.69	106.40
26	BB	948	C	C5-C4-N4	-9.28	113.70	120.20
26	BB	1850	G	C5'-C4'-O4'	9.28	120.24	109.10
26	BB	1983	G	C4-C5-N7	-9.28	107.09	110.80
26	BB	489	G	C4-C5-C6	-9.28	113.23	118.80
26	BB	27	G	C8-N9-C4	-9.28	102.69	106.40
26	BB	1427	A	C6-C5-N7	9.28	138.79	132.30
26	BB	2025	C	N3-C4-C5	9.28	125.61	121.90
26	BB	2284	A	N1-C6-N6	9.28	124.17	118.60
1	AA	55	A	O4'-C1'-N9	9.28	115.62	108.20
26	BB	1056	G	C2-N3-C4	9.28	116.54	111.90
26	BB	95	A	O4'-C1'-N9	-9.28	100.78	108.20
26	BB	906	U	C5-C4-O4	-9.27	120.34	125.90
26	BB	1886	U	C4-C5-C6	9.27	125.26	119.70
1	AA	243	A	C2-N3-C4	9.27	115.23	110.60
2	AB	56	C	N1-C2-O2	9.27	124.46	118.90
26	BB	478	A	N9-C4-C5	9.27	109.51	105.80
26	BB	613	A	C4-C5-C6	-9.27	112.36	117.00
26	BB	811	U	O4'-C1'-N1	9.27	115.61	108.20
30	BF	188	MET	CG-SD-CE	9.27	115.03	100.20
1	AA	65	A	C5-N7-C8	-9.27	99.27	103.90
26	BB	1857	G	C2-N3-C4	9.27	116.53	111.90
28	BD	86	ARG	NE-CZ-NH1	9.27	124.93	120.30
1	AA	782	A	P-O3'-C3'	9.27	130.82	119.70
1	AA	1371	G	C6-C5-N7	-9.27	124.84	130.40
10	AJ	118	ARG	NE-CZ-NH2	9.27	124.93	120.30
26	BB	445	C	C5'-C4'-O4'	9.27	120.22	109.10
26	BB	743	A	C5-C6-N1	9.27	122.33	117.70
26	BB	1920	C	C4'-C3'-C2'	-9.27	93.33	102.60
30	BF	85	PHE	CB-CG-CD1	9.27	127.29	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6	G	C8-N9-C4	-9.26	102.69	106.40
1	AA	481	G	C2-N3-C4	9.26	116.53	111.90
1	AA	435	A	N1-C2-N3	-9.26	124.67	129.30
1	AA	480	U	C5'-C4'-O4'	9.26	120.21	109.10
1	AA	1124	G	N7-C8-N9	9.26	117.73	113.10
1	AA	1150	A	N7-C8-N9	9.26	118.43	113.80
1	AA	1392	G	N3-C4-C5	-9.26	123.97	128.60
26	BB	1943	U	N1-C2-N3	9.26	120.46	114.90
1	AA	104	G	C6-C5-N7	9.26	135.95	130.40
1	AA	740	U	C4'-C3'-C2'	-9.26	93.34	102.60
25	BA	40	U	O4'-C1'-N1	9.26	115.61	108.20
26	BB	902	C	N3-C4-C5	-9.26	118.20	121.90
26	BB	748	G	N9-C4-C5	9.26	109.10	105.40
26	BB	925	A	C5-C6-N6	-9.26	116.30	123.70
26	BB	2787	C	O4'-C1'-N1	9.26	115.60	108.20
26	BB	60	G	C1'-O4'-C4'	-9.25	102.50	109.90
26	BB	1134	A	O4'-C1'-N9	9.25	115.60	108.20
28	BD	270	ARG	NE-CZ-NH1	-9.25	115.67	120.30
26	BB	1423	G	C4-C5-N7	-9.25	107.10	110.80
26	BB	1471	G	C4-C5-N7	-9.25	107.10	110.80
1	AA	1327	C	N3-C4-C5	-9.25	118.20	121.90
26	BB	863	A	O4'-C1'-N9	9.25	115.60	108.20
26	BB	1391	U	O4'-C1'-N1	9.25	115.60	108.20
26	BB	1396	U	C6-N1-C2	9.25	126.55	121.00
26	BB	2093	G	N3-C4-C5	-9.25	123.97	128.60
26	BB	2331	G	N3-C4-C5	-9.25	123.97	128.60
25	BA	54	G	C5'-C4'-O4'	9.25	120.19	109.10
26	BB	565	C	C6-N1-C2	-9.25	116.60	120.30
26	BB	956	G	N7-C8-N9	9.25	117.72	113.10
26	BB	1021	A	O4'-C1'-N9	9.25	115.60	108.20
26	BB	2821	A	N7-C8-N9	-9.25	109.18	113.80
1	AA	722	G	C4-C5-N7	9.24	114.50	110.80
1	AA	1511	G	N7-C8-N9	9.24	117.72	113.10
26	BB	103	A	C8-N9-C4	-9.24	102.10	105.80
1	AA	1458	G	C8-N9-C4	-9.24	102.70	106.40
26	BB	781	A	C5'-C4'-O4'	9.24	120.19	109.10
26	BB	2722	G	N1-C6-O6	-9.24	114.35	119.90
26	BB	2759	G	C8-N9-C4	-9.24	102.70	106.40
1	AA	895	G	O4'-C1'-N9	9.24	115.59	108.20
25	BA	86	G	C5-C6-N1	9.24	116.12	111.50
26	BB	313	G	N3-C4-C5	-9.24	123.98	128.60
26	BB	560	C	O4'-C1'-N1	9.24	115.59	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1476	U	C1'-O4'-C4'	-9.24	102.51	109.90
26	BB	697	G	C5-C6-O6	9.24	134.14	128.60
1	AA	1158	C	C5-C6-N1	9.24	125.62	121.00
26	BB	26	G	N9-C4-C5	9.24	109.09	105.40
26	BB	2160	C	C6-N1-C2	-9.24	116.61	120.30
25	BA	27	C	O4'-C4'-C3'	9.23	113.49	106.10
26	BB	1813	G	C2-N3-C4	9.23	116.52	111.90
1	AA	1299	A	C4-C5-C6	-9.23	112.38	117.00
26	BB	51	G	N7-C8-N9	9.23	117.72	113.10
26	BB	876	C	C4'-C3'-C2'	-9.23	93.37	102.60
26	BB	1610	A	N1-C6-N6	-9.23	113.06	118.60
26	BB	2021	C	O4'-C1'-N1	9.23	115.59	108.20
26	BB	2338	C	O4'-C1'-N1	9.23	115.59	108.20
1	AA	379	C	O4'-C1'-N1	9.23	115.58	108.20
1	AA	897	C	C6-N1-C2	9.23	123.99	120.30
26	BB	2198	A	C5-N7-C8	9.23	108.52	103.90
1	AA	1388	C	C4-C5-C6	-9.23	112.79	117.40
1	AA	1464	U	N3-C2-O2	-9.23	115.74	122.20
26	BB	972	A	N7-C8-N9	9.23	118.42	113.80
1	AA	528	C	O4'-C1'-N1	9.23	115.58	108.20
1	AA	529	G	N9-C4-C5	-9.23	101.71	105.40
1	AA	669	G	C5-C6-O6	-9.23	123.06	128.60
1	AA	973	G	N7-C8-N9	-9.23	108.49	113.10
1	AA	1134	G	C5-C6-N1	9.23	116.11	111.50
26	BB	520	G	N7-C8-N9	9.23	117.71	113.10
26	BB	1288	G	C6-N1-C2	-9.23	119.56	125.10
1	AA	579	A	C4-C5-C6	9.22	121.61	117.00
1	AA	933	G	O4'-C1'-N9	9.22	115.58	108.20
1	AA	452	A	O4'-C1'-N9	9.22	115.58	108.20
1	AA	830	G	C6-N1-C2	-9.22	119.57	125.10
1	AA	1150	A	C8-N9-C4	-9.22	102.11	105.80
25	BA	41	G	N3-C4-C5	-9.22	123.99	128.60
26	BB	101	A	N1-C2-N3	9.22	133.91	129.30
26	BB	600	G	C4'-C3'-C2'	-9.22	93.38	102.60
26	BB	1054	A	N1-C6-N6	9.22	124.13	118.60
26	BB	2023	C	O4'-C1'-N1	9.22	115.58	108.20
2	AB	4	G	C4'-C3'-C2'	-9.22	93.38	102.60
26	BB	1452	G	C8-N9-C4	-9.22	102.71	106.40
26	BB	1556	C	C5-C4-N4	-9.22	113.75	120.20
26	BB	2548	U	C5-C4-O4	-9.22	120.37	125.90
26	BB	2798	U	C2-N3-C4	-9.22	121.47	127.00
1	AA	1336	C	N3-C2-O2	-9.22	115.45	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1383	C	C4-C5-C6	-9.22	112.79	117.40
26	BB	2832	U	C5-C4-O4	9.22	131.43	125.90
1	AA	721	G	N3-C4-C5	-9.22	123.99	128.60
26	BB	418	C	C4-C5-C6	-9.22	112.79	117.40
26	BB	1028	A	C5-C6-N6	9.22	131.07	123.70
26	BB	1543	G	C8-N9-C4	-9.22	102.71	106.40
26	BB	2022	U	O4'-C1'-N1	9.22	115.57	108.20
1	AA	87	C	N1-C2-O2	9.22	124.43	118.90
2	AB	28	C	N1-C2-O2	9.21	124.43	118.90
26	BB	1474	U	C2-N3-C4	-9.21	121.47	127.00
26	BB	2830	C	C6-N1-C2	-9.21	116.61	120.30
31	BG	124	ARG	NE-CZ-NH1	9.21	124.91	120.30
1	AA	1035	A	N1-C2-N3	-9.21	124.69	129.30
26	BB	227	A	C4-C5-N7	9.21	115.31	110.70
26	BB	824	U	O4'-C1'-N1	9.21	115.57	108.20
26	BB	1277	G	C6-N1-C2	-9.21	119.57	125.10
25	BA	106	G	N9-C4-C5	-9.21	101.72	105.40
26	BB	645	C	C5-C6-N1	9.21	125.61	121.00
26	BB	2006	C	N3-C4-C5	-9.21	118.22	121.90
26	BB	2137	U	C5-C4-O4	-9.21	120.37	125.90
26	BB	2821	A	C8-N9-C4	9.21	109.48	105.80
1	AA	375	U	O4'-C1'-N1	9.21	115.56	108.20
1	AA	906	A	N1-C2-N3	9.21	133.90	129.30
1	AA	1280	A	N9-C4-C5	9.21	109.48	105.80
21	AU	47	ARG	NE-CZ-NH1	9.21	124.90	120.30
25	BA	82	U	N1-C2-O2	9.21	129.25	122.80
26	BB	1101	U	N3-C4-O4	-9.21	112.96	119.40
1	AA	726	C	N3-C4-C5	-9.20	118.22	121.90
26	BB	1188	U	N1-C2-O2	9.20	129.24	122.80
26	BB	1995	U	O4'-C1'-N1	9.20	115.56	108.20
26	BB	1884	G	C8-N9-C4	-9.20	102.72	106.40
1	AA	1	A	C2-N3-C4	9.20	115.20	110.60
1	AA	818	G	C4-C5-C6	9.20	124.32	118.80
1	AA	1051	C	C3'-C2'-C1'	9.20	108.86	101.50
26	BB	337	C	C1'-O4'-C4'	9.20	117.26	109.90
26	BB	1107	G	C5-C6-O6	-9.20	123.08	128.60
26	BB	2337	G	C8-N9-C4	9.20	110.08	106.40
26	BB	699	A	C6-N1-C2	-9.20	113.08	118.60
26	BB	877	A	N7-C8-N9	9.20	118.40	113.80
26	BB	2824	C	N1-C2-O2	9.20	124.42	118.90
1	AA	358	U	O4'-C1'-N1	9.19	115.56	108.20
1	AA	691	G	O4'-C1'-N9	9.19	115.56	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	703	G	C2-N3-C4	9.19	116.50	111.90
1	AA	294	U	C4'-C3'-C2'	-9.19	93.41	102.60
1	AA	1110	A	N7-C8-N9	9.19	118.40	113.80
26	BB	577	G	N9-C4-C5	9.19	109.08	105.40
26	BB	2582	G	C4-C5-C6	9.19	124.32	118.80
1	AA	1331	G	N1-C6-O6	-9.19	114.39	119.90
26	BB	1093	G	C4-C5-N7	-9.19	107.12	110.80
26	BB	1811	G	C6-N1-C2	-9.19	119.58	125.10
26	BB	1999	C	N3-C4-C5	-9.19	118.22	121.90
1	AA	753	A	C5-C6-N1	-9.19	113.11	117.70
3	AC	42	U	N3-C4-C5	-9.19	109.09	114.60
26	BB	831	G	O4'-C1'-N9	9.19	115.55	108.20
26	BB	890	C	N3-C4-C5	-9.19	118.22	121.90
26	BB	1710	G	C4-C5-N7	-9.19	107.12	110.80
26	BB	1721	G	N1-C2-N3	-9.19	118.39	123.90
26	BB	2124	G	N3-C2-N2	-9.19	113.47	119.90
26	BB	2345	G	C6-N1-C2	-9.19	119.59	125.10
26	BB	2870	C	C5-C6-N1	9.19	125.59	121.00
1	AA	69	G	C8-N9-C4	-9.19	102.72	106.40
1	AA	457	G	C6-N1-C2	-9.19	119.59	125.10
1	AA	1385	G	C2-N3-C4	9.19	116.49	111.90
4	AD	47	A	O4'-C1'-N9	9.19	115.55	108.20
26	BB	613	A	O4'-C1'-N9	9.19	115.55	108.20
26	BB	1499	C	C5'-C4'-O4'	9.19	120.12	109.10
26	BB	1679	A	C8-N9-C4	-9.19	102.13	105.80
26	BB	2530	A	C6-N1-C2	-9.19	113.09	118.60
26	BB	726	G	N3-C4-C5	-9.18	124.01	128.60
26	BB	1411	U	C5-C6-N1	-9.18	118.11	122.70
26	BB	1615	C	N3-C2-O2	-9.18	115.47	121.90
26	BB	2079	U	O4'-C1'-N1	9.18	115.55	108.20
1	AA	1234	C	C5-C4-N4	-9.18	113.78	120.20
26	BB	551	G	N3-C2-N2	9.18	126.33	119.90
26	BB	1918	A	O4'-C1'-N9	9.18	115.54	108.20
1	AA	72	A	C5'-C4'-O4'	9.18	120.11	109.10
26	BB	359	G	N7-C8-N9	9.18	117.69	113.10
26	BB	1090	A	C4-C5-N7	9.18	115.29	110.70
2	AB	53	G	C8-N9-C4	-9.17	102.73	106.40
26	BB	568	U	C1'-O4'-C4'	-9.17	102.56	109.90
26	BB	1459	G	C8-N9-C4	-9.17	102.73	106.40
26	BB	1684	G	C5-C6-O6	-9.17	123.09	128.60
26	BB	1686	C	C5-C4-N4	-9.17	113.78	120.20
26	BB	2389	G	N3-C2-N2	-9.17	113.48	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2742	G	C8-N9-C4	-9.17	102.73	106.40
1	AA	531	U	C5-C6-N1	9.17	127.28	122.70
4	AD	40	C	C6-N1-C2	9.17	123.97	120.30
26	BB	29	U	C5-C4-O4	-9.17	120.40	125.90
26	BB	382	A	C5-N7-C8	9.17	108.48	103.90
26	BB	2421	G	N7-C8-N9	9.17	117.68	113.10
1	AA	827	U	N1-C2-N3	9.17	120.40	114.90
26	BB	328	U	C2-N3-C4	-9.17	121.50	127.00
26	BB	695	G	C4'-C3'-C2'	-9.17	93.43	102.60
26	BB	1560	G	O4'-C1'-N9	9.17	115.53	108.20
26	BB	1600	C	O4'-C1'-N1	9.17	115.53	108.20
26	BB	1714	U	C1'-O4'-C4'	-9.17	102.57	109.90
1	AA	29	U	C2-N3-C4	-9.16	121.50	127.00
1	AA	906	A	C5-N7-C8	-9.16	99.32	103.90
1	AA	1380	U	C5-C6-N1	-9.16	118.12	122.70
26	BB	2894	G	C8-N9-C4	-9.16	102.73	106.40
1	AA	282	A	C4'-C3'-C2'	-9.16	93.44	102.60
1	AA	358	U	C2-N3-C4	-9.16	121.50	127.00
1	AA	1304	G	C4-C5-N7	9.16	114.47	110.80
2	AB	50	G	N3-C4-C5	-9.16	124.02	128.60
26	BB	236	C	O4'-C1'-N1	9.16	115.53	108.20
26	BB	427	U	O4'-C1'-N1	9.16	115.53	108.20
26	BB	585	G	C6-N1-C2	-9.16	119.60	125.10
26	BB	2460	U	N3-C4-O4	9.16	125.81	119.40
1	AA	127	G	C5-C6-N1	9.16	116.08	111.50
1	AA	213	G	N3-C4-C5	-9.16	124.02	128.60
1	AA	1418	A	C8-N9-C4	-9.16	102.14	105.80
1	AA	405	U	C4-C5-C6	9.16	125.20	119.70
25	BA	112	G	C6-N1-C2	-9.16	119.60	125.10
26	BB	475	C	C2-N3-C4	9.16	124.48	119.90
26	BB	1276	A	C5-C6-N1	9.16	122.28	117.70
26	BB	1904	G	C6-N1-C2	-9.16	119.60	125.10
26	BB	2397	G	N7-C8-N9	9.16	117.68	113.10
26	BB	2480	C	O4'-C1'-N1	9.16	115.53	108.20
26	BB	2698	U	C4-C5-C6	9.16	125.20	119.70
1	AA	773	G	N9-C1'-C2'	-9.16	101.93	112.00
1	AA	686	U	C2-N3-C4	-9.15	121.51	127.00
1	AA	938	A	C8-N9-C4	-9.15	102.14	105.80
26	BB	503	A	N1-C2-N3	-9.15	124.72	129.30
26	BB	790	U	C4-C5-C6	9.15	125.19	119.70
26	BB	1484	U	C5'-C4'-O4'	9.15	120.08	109.10
1	AA	709	U	C2-N3-C4	-9.15	121.51	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	502	A	C6-C5-N7	9.15	138.71	132.30
26	BB	575	A	N1-C2-N3	-9.15	124.72	129.30
26	BB	1230	A	C1'-O4'-C4'	9.15	117.22	109.90
26	BB	1461	C	N1-C2-O2	9.15	124.39	118.90
26	BB	1478	G	C4-C5-N7	-9.15	107.14	110.80
31	BG	177	ARG	NE-CZ-NH1	9.15	124.88	120.30
1	AA	1255	G	C5-N7-C8	-9.15	99.73	104.30
25	BA	59	A	N7-C8-N9	9.15	118.37	113.80
20	AT	47	ASP	CB-CG-OD1	-9.15	110.07	118.30
26	BB	506	G	C4-C5-N7	-9.15	107.14	110.80
26	BB	1154	G	N3-C4-C5	-9.15	124.03	128.60
3	AC	17	U	C3'-C2'-C1'	9.14	108.82	101.50
26	BB	1168	G	N1-C2-N3	-9.14	118.41	123.90
26	BB	2093	G	C2-N3-C4	9.14	116.47	111.90
26	BB	2379	G	N3-C4-C5	-9.14	124.03	128.60
26	BB	2527	C	C5-C4-N4	-9.14	113.80	120.20
1	AA	293	G	C5-C6-N1	-9.14	106.93	111.50
1	AA	723	U	N3-C4-O4	9.14	125.80	119.40
26	BB	2345	G	N7-C8-N9	9.14	117.67	113.10
26	BB	2531	A	C2-N3-C4	9.14	115.17	110.60
1	AA	380	G	N9-C4-C5	9.14	109.06	105.40
1	AA	873	A	C8-N9-C4	-9.14	102.14	105.80
1	AA	925	G	N1-C6-O6	-9.14	114.42	119.90
1	AA	1383	C	N1-C2-O2	9.14	124.39	118.90
1	AA	1486	G	N7-C8-N9	-9.14	108.53	113.10
7	AG	69	ARG	NE-CZ-NH2	-9.14	115.73	120.30
26	BB	1142	A	P-O3'-C3'	9.14	130.67	119.70
26	BB	1514	G	C6-C5-N7	-9.14	124.92	130.40
26	BB	42	A	P-O3'-C3'	9.14	130.67	119.70
26	BB	2521	C	O4'-C1'-N1	9.14	115.51	108.20
26	BB	2609	U	O4'-C1'-N1	9.14	115.51	108.20
26	BB	2318	G	N3-C2-N2	-9.14	113.50	119.90
4	AD	49	C	N1-C2-O2	9.14	124.38	118.90
26	BB	2198	A	N1-C6-N6	-9.14	113.12	118.60
1	AA	328	C	C5-C6-N1	9.14	125.57	121.00
26	BB	676	A	C5-C6-N1	9.13	122.27	117.70
26	BB	1514	G	C4-C5-C6	9.13	124.28	118.80
19	AS	70	ARG	NE-CZ-NH2	-9.13	115.73	120.30
25	BA	2	G	C4'-C3'-C2'	-9.13	93.47	102.60
26	BB	1931	U	C4'-C3'-C2'	-9.13	93.47	102.60
26	BB	2376	A	N1-C6-N6	-9.13	113.12	118.60
1	AA	156	C	O4'-C1'-N1	9.13	115.50	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1397	C	N1-C2-O2	9.13	124.38	118.90
26	BB	2058	A	N1-C2-N3	-9.13	124.73	129.30
26	BB	2288	A	C6-C5-N7	9.13	138.69	132.30
1	AA	1268	G	C8-N9-C4	-9.13	102.75	106.40
26	BB	258	G	C4-C5-C6	9.13	124.28	118.80
1	AA	302	G	C5-C6-N1	9.13	116.06	111.50
2	AB	30	G	C5-C6-N1	-9.13	106.94	111.50
3	AC	24	A	C5-N7-C8	9.13	108.46	103.90
26	BB	31	C	C5'-C4'-O4'	9.13	120.05	109.10
26	BB	62	U	C5-C6-N1	-9.13	118.14	122.70
26	BB	339	U	C6-N1-C2	-9.13	115.52	121.00
26	BB	618	G	N7-C8-N9	9.13	117.66	113.10
31	BG	173	ASP	CB-CG-OD1	-9.13	110.08	118.30
1	AA	726	C	N3-C4-N4	9.13	124.39	118.00
1	AA	1196	A	C8-N9-C4	9.12	109.45	105.80
4	AD	65	G	N1-C6-O6	-9.12	114.42	119.90
26	BB	110	G	C4-C5-N7	9.13	114.45	110.80
26	BB	1057	A	C6-N1-C2	-9.12	113.13	118.60
26	BB	1520	U	C4-C5-C6	9.12	125.17	119.70
26	BB	1852	U	N3-C2-O2	-9.12	115.81	122.20
1	AA	1239	A	N1-C6-N6	9.12	124.07	118.60
26	BB	132	G	O4'-C1'-N9	9.12	115.50	108.20
26	BB	1102	C	O4'-C1'-N1	9.12	115.50	108.20
26	BB	1350	C	C5-C6-N1	-9.12	116.44	121.00
26	BB	1081	U	N3-C4-C5	-9.12	109.13	114.60
26	BB	1262	A	N9-C4-C5	9.12	109.45	105.80
26	BB	2444	G	C6-N1-C2	-9.12	119.63	125.10
26	BB	2791	G	C6-N1-C2	-9.12	119.63	125.10
26	BB	462	C	N1-C2-O2	9.12	124.37	118.90
1	AA	451	A	C5-C6-N6	-9.12	116.41	123.70
1	AA	904	U	N1-C2-N3	9.12	120.37	114.90
1	AA	1393	U	N3-C4-C5	9.12	120.07	114.60
4	AD	20	G	C3'-C2'-C1'	-9.12	94.20	101.50
1	AA	1079	G	O4'-C1'-N9	9.12	115.49	108.20
26	BB	483	A	C2-N3-C4	9.12	115.16	110.60
26	BB	1451	C	C6-N1-C2	-9.12	116.65	120.30
1	AA	533	A	C4-C5-C6	-9.12	112.44	117.00
1	AA	1165	U	O4'-C1'-N1	9.11	115.49	108.20
2	AB	1	A	N1-C6-N6	-9.12	113.13	118.60
26	BB	1921	G	N1-C6-O6	-9.11	114.43	119.90
26	BB	2012	G	C8-N9-C4	-9.12	102.75	106.40
26	BB	2427	C	C2-N3-C4	-9.12	115.34	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2743	U	C4-C5-C6	9.12	125.17	119.70
1	AA	128	G	C3'-C2'-C1'	-9.11	94.21	101.50
1	AA	366	A	N9-C4-C5	9.11	109.44	105.80
1	AA	568	G	C5-C6-O6	-9.11	123.13	128.60
1	AA	581	G	N3-C4-C5	-9.11	124.04	128.60
26	BB	1972	G	C8-N9-C4	9.11	110.05	106.40
26	BB	1998	A	N3-C4-C5	-9.11	120.42	126.80
26	BB	2427	C	N3-C2-O2	-9.11	115.52	121.90
26	BB	2599	G	O4'-C1'-N9	9.11	115.49	108.20
26	BB	798	G	C5-C6-N1	9.11	116.06	111.50
1	AA	1015	G	C4-C5-N7	9.11	114.44	110.80
1	AA	1068	G	N1-C2-N3	-9.11	118.44	123.90
26	BB	558	U	N1-C1'-C2'	-9.11	101.98	112.00
26	BB	2304	G	C5-C6-N1	9.11	116.06	111.50
26	BB	2804	U	N1-C2-N3	9.11	120.37	114.90
2	AB	45	U	N3-C2-O2	-9.11	115.83	122.20
26	BB	548	G	C5-C6-N1	9.11	116.05	111.50
26	BB	606	U	O4'-C4'-C3'	9.11	113.39	106.10
26	BB	1450	G	C5-C6-N1	9.11	116.05	111.50
26	BB	2104	C	O4'-C1'-N1	9.11	115.48	108.20
1	AA	122	G	N7-C8-N9	9.10	117.65	113.10
1	AA	545	C	C1'-O4'-C4'	9.10	117.18	109.90
1	AA	1254	A	O4'-C1'-N9	9.10	115.48	108.20
25	BA	46	A	C4-C5-C6	-9.10	112.45	117.00
26	BB	1433	A	N1-C2-N3	-9.10	124.75	129.30
26	BB	2586	U	N1-C2-N3	9.10	120.36	114.90
26	BB	2841	C	C3'-C2'-C1'	9.10	108.78	101.50
26	BB	260	G	C8-N9-C4	-9.10	102.76	106.40
26	BB	533	G	N3-C4-C5	-9.10	124.05	128.60
26	BB	2184	A	C4-C5-C6	-9.10	112.45	117.00
26	BB	1109	C	C5-C6-N1	9.10	125.55	121.00
26	BB	1792	G	C5-N7-C8	9.10	108.85	104.30
26	BB	2536	G	C6-C5-N7	-9.10	124.94	130.40
1	AA	740	U	N3-C2-O2	-9.10	115.83	122.20
25	BA	30	C	N3-C4-C5	-9.10	118.26	121.90
26	BB	352	A	N9-C4-C5	9.10	109.44	105.80
26	BB	368	A	N1-C6-N6	9.10	124.06	118.60
26	BB	396	G	N1-C6-O6	9.10	125.36	119.90
26	BB	451	U	N3-C4-O4	-9.10	113.03	119.40
26	BB	1002	G	C6-N1-C2	-9.10	119.64	125.10
1	AA	345	C	C2-N3-C4	9.09	124.45	119.90
1	AA	1067	A	C8-N9-C4	9.09	109.44	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	903	C	C5-C4-N4	-9.09	113.83	120.20
1	AA	350	G	N9-C4-C5	9.09	109.04	105.40
26	BB	924	G	N3-C2-N2	-9.09	113.53	119.90
26	BB	1816	C	O4'-C1'-N1	9.09	115.47	108.20
26	BB	2700	A	N3-C4-C5	-9.09	120.44	126.80
1	AA	447	G	C6-C5-N7	-9.09	124.94	130.40
26	BB	522	A	C2-N3-C4	9.09	115.15	110.60
1	AA	1434	A	N1-C6-N6	9.09	124.05	118.60
3	AC	25	U	N3-C4-O4	9.09	125.76	119.40
14	AN	126	ARG	NE-CZ-NH2	9.09	124.84	120.30
26	BB	969	G	N3-C4-C5	-9.09	124.06	128.60
26	BB	101	A	C6-N1-C2	-9.09	113.15	118.60
26	BB	376	G	C1'-O4'-C4'	9.09	117.17	109.90
26	BB	708	G	O4'-C1'-N9	9.09	115.47	108.20
26	BB	1152	C	O4'-C1'-N1	9.09	115.47	108.20
26	BB	1475	G	C5-N7-C8	-9.09	99.75	104.30
26	BB	2413	G	N1-C2-N3	9.09	129.35	123.90
26	BB	2578	G	C5-C6-N1	9.09	116.05	111.50
26	BB	2732	G	N9-C4-C5	-9.09	101.76	105.40
1	AA	311	C	O4'-C1'-N1	9.09	115.47	108.20
26	BB	249	C	P-O3'-C3'	9.09	130.60	119.70
1	AA	614	C	C5-C4-N4	-9.09	113.84	120.20
26	BB	428	A	C3'-C2'-C1'	9.09	108.77	101.50
26	BB	2107	G	C5-C6-O6	9.09	134.05	128.60
1	AA	205	A	C5-N7-C8	-9.08	99.36	103.90
1	AA	1095	U	C5'-C4'-O4'	9.08	120.00	109.10
26	BB	210	C	O4'-C4'-C3'	9.08	113.37	106.10
26	BB	537	G	N1-C2-N3	-9.08	118.45	123.90
26	BB	2117	A	C5-N7-C8	-9.08	99.36	103.90
26	BB	407	G	N3-C4-C5	-9.08	124.06	128.60
26	BB	835	C	C5-C4-N4	9.08	126.56	120.20
26	BB	1307	A	O4'-C1'-N9	9.08	115.47	108.20
26	BB	1582	C	C1'-O4'-C4'	-9.08	102.63	109.90
26	BB	2409	G	N1-C2-N3	-9.08	118.45	123.90
43	BS	2	ARG	NE-CZ-NH1	-9.08	115.76	120.30
1	AA	89	U	N3-C2-O2	-9.08	115.84	122.20
26	BB	2647	U	O4'-C4'-C3'	9.08	113.36	106.10
26	BB	18	U	O4'-C1'-N1	9.08	115.46	108.20
26	BB	2547	A	C5'-C4'-O4'	9.08	120.00	109.10
1	AA	831	A	C4-C5-C6	-9.08	112.46	117.00
1	AA	1493	A	N9-C4-C5	-9.08	102.17	105.80
7	AG	55	ARG	NE-CZ-NH1	9.08	124.84	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	249	C	N1-C2-O2	9.08	124.35	118.90
1	AA	126	G	C1'-O4'-C4'	-9.08	102.64	109.90
1	AA	853	C	C5-C6-N1	9.08	125.54	121.00
26	BB	1137	G	O4'-C1'-N9	9.08	115.46	108.20
26	BB	1419	A	C1'-O4'-C4'	-9.08	102.64	109.90
26	BB	2470	G	C8-N9-C4	9.08	110.03	106.40
1	AA	138	G	C8-N9-C4	-9.07	102.77	106.40
1	AA	311	C	N1-C2-O2	9.07	124.34	118.90
1	AA	663	A	C2-N3-C4	9.07	115.14	110.60
1	AA	1241	G	C8-N9-C4	-9.07	102.77	106.40
1	AA	1249	C	N3-C2-O2	-9.07	115.55	121.90
26	BB	216	A	O4'-C1'-N9	9.07	115.46	108.20
45	BU	84	ARG	NE-CZ-NH1	-9.07	115.76	120.30
26	BB	541	A	C1'-O4'-C4'	-9.07	102.64	109.90
26	BB	2198	A	N1-C2-N3	9.07	133.84	129.30
26	BB	255	A	N1-C2-N3	9.07	133.84	129.30
26	BB	849	A	C2-N3-C4	9.07	115.14	110.60
26	BB	1189	A	C5'-C4'-O4'	9.07	119.98	109.10
26	BB	2626	C	N3-C2-O2	-9.07	115.55	121.90
26	BB	2653	U	O4'-C1'-N1	9.07	115.45	108.20
26	BB	2708	G	N7-C8-N9	9.07	117.64	113.10
1	AA	204	G	C8-N9-C4	-9.07	102.77	106.40
1	AA	638	U	O4'-C1'-N1	9.07	115.45	108.20
26	BB	233	A	N1-C2-N3	-9.07	124.77	129.30
26	BB	1042	G	C5-N7-C8	9.07	108.83	104.30
26	BB	1283	G	C8-N9-C4	-9.07	102.77	106.40
26	BB	1848	A	C8-N9-C4	-9.07	102.17	105.80
26	BB	2871	U	C6-N1-C2	-9.07	115.56	121.00
1	AA	579	A	C8-N9-C4	-9.06	102.17	105.80
1	AA	1263	C	C4'-C3'-C2'	-9.06	93.53	102.60
2	AB	52	A	N9-C4-C5	-9.06	102.17	105.80
12	AL	129	ARG	NE-CZ-NH1	9.06	124.83	120.30
26	BB	1075	C	C6-N1-C2	-9.06	116.67	120.30
26	BB	1522	A	C5-C6-N6	-9.06	116.45	123.70
26	BB	2530	A	O4'-C1'-N9	9.06	115.45	108.20
26	BB	2685	G	C4-C5-N7	9.06	114.43	110.80
1	AA	536	C	C3'-C2'-C1'	9.06	108.75	101.50
1	AA	816	A	N7-C8-N9	9.06	118.33	113.80
1	AA	964	A	N7-C8-N9	9.06	118.33	113.80
26	BB	111	A	C8-N9-C4	-9.06	102.17	105.80
26	BB	2322	A	N1-C2-N3	-9.06	124.77	129.30
26	BB	2514	U	O4'-C1'-N1	9.06	115.45	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2874	C	O4'-C1'-N1	9.06	115.45	108.20
1	AA	529	G	C6-C5-N7	-9.06	124.97	130.40
1	AA	1355	G	C4-C5-N7	-9.06	107.18	110.80
1	AA	1370	G	C2-N3-C4	9.06	116.43	111.90
3	AC	33	A	O4'-C4'-C3'	9.06	113.35	106.10
26	BB	1654	A	N1-C6-N6	-9.06	113.16	118.60
26	BB	1660	G	C5-N7-C8	-9.06	99.77	104.30
26	BB	1806	C	O4'-C1'-N1	9.06	115.45	108.20
1	AA	930	C	C4-C5-C6	9.06	121.93	117.40
1	AA	1153	G	C6-C5-N7	-9.05	124.97	130.40
26	BB	442	G	C8-N9-C4	-9.06	102.78	106.40
1	AA	796	C	C3'-C2'-C1'	-9.05	94.26	101.50
26	BB	808	G	N3-C4-C5	-9.05	124.07	128.60
26	BB	958	U	N3-C4-O4	9.05	125.74	119.40
26	BB	1483	G	C6-N1-C2	-9.05	119.67	125.10
1	AA	1230	C	O4'-C1'-N1	9.05	115.44	108.20
25	BA	41	G	C6-N1-C2	-9.05	119.67	125.10
26	BB	1066	U	C4-C5-C6	9.05	125.13	119.70
26	BB	1588	G	C2-N3-C4	9.05	116.43	111.90
26	BB	2738	A	N1-C2-N3	-9.05	124.78	129.30
1	AA	253	A	C4'-C3'-C2'	-9.05	93.55	102.60
1	AA	858	G	N9-C4-C5	9.05	109.02	105.40
26	BB	761	A	O4'-C1'-N9	9.05	115.44	108.20
26	BB	1963	U	O4'-C1'-N1	9.05	115.44	108.20
1	AA	184	G	N9-C1'-C2'	-9.04	102.05	112.00
25	BA	83	G	N1-C2-N2	9.05	124.34	116.20
26	BB	2505	G	O4'-C4'-C3'	9.05	113.34	106.10
26	BB	2843	G	N1-C2-N2	9.04	124.34	116.20
1	AA	171	A	C4-C5-C6	-9.04	112.48	117.00
1	AA	652	U	C5-C4-O4	9.04	131.33	125.90
26	BB	1053	C	N1-C2-O2	9.04	124.33	118.90
26	BB	1681	G	C8-N9-C4	-9.04	102.78	106.40
1	AA	1338	G	O4'-C1'-N9	9.04	115.43	108.20
25	BA	73	A	N1-C6-N6	-9.04	113.17	118.60
26	BB	985	C	C6-N1-C2	-9.04	116.68	120.30
26	BB	2040	G	N1-C6-O6	-9.04	114.47	119.90
1	AA	563	A	C1'-O4'-C4'	-9.04	102.67	109.90
1	AA	1292	G	C8-N9-C4	-9.04	102.78	106.40
1	AA	1511	G	C5-C6-O6	-9.04	123.18	128.60
25	BA	114	C	O4'-C1'-N1	9.04	115.43	108.20
26	BB	361	G	C2-N3-C4	9.04	116.42	111.90
26	BB	883	G	C8-N9-C4	-9.04	102.78	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1285	A	C2-N3-C4	9.04	115.12	110.60
26	BB	1454	C	O4'-C1'-N1	9.04	115.43	108.20
26	BB	2091	C	C4'-C3'-C2'	-9.04	93.56	102.60
1	AA	163	C	C5-C4-N4	-9.04	113.87	120.20
1	AA	458	U	C5'-C4'-O4'	9.04	119.94	109.10
1	AA	592	G	N9-C4-C5	9.04	109.02	105.40
1	AA	1245	C	C5-C6-N1	-9.04	116.48	121.00
26	BB	762	U	N3-C2-O2	-9.03	115.88	122.20
26	BB	1416	G	C2-N3-C4	9.03	116.42	111.90
26	BB	2556	C	O4'-C1'-N1	9.03	115.43	108.20
26	BB	2676	C	C5-C6-N1	9.04	125.52	121.00
26	BB	1605	C	O4'-C1'-N1	9.03	115.43	108.20
1	AA	736	C	C3'-C2'-C1'	-9.03	94.28	101.50
26	BB	174	U	C3'-C2'-C1'	-9.03	94.28	101.50
26	BB	179	C	C2-N3-C4	9.03	124.42	119.90
26	BB	612	G	N3-C4-C5	-9.03	124.08	128.60
26	BB	1980	G	C5-C6-O6	-9.03	123.18	128.60
1	AA	56	U	N3-C4-C5	-9.03	109.18	114.60
1	AA	595	A	C5-N7-C8	-9.03	99.39	103.90
1	AA	746	A	O4'-C1'-N9	9.03	115.42	108.20
26	BB	464	U	N3-C4-C5	-9.03	109.18	114.60
26	BB	672	C	N1-C2-O2	9.03	124.32	118.90
26	BB	1056	G	N1-C2-N3	-9.03	118.48	123.90
26	BB	2859	G	C8-N9-C4	-9.03	102.79	106.40
26	BB	716	A	C2-N3-C4	9.03	115.11	110.60
26	BB	926	G	C6-N1-C2	-9.03	119.68	125.10
2	AB	27	C	C6-N1-C2	-9.02	116.69	120.30
26	BB	166	U	O4'-C1'-N1	9.02	115.42	108.20
26	BB	849	A	N7-C8-N9	-9.02	109.29	113.80
26	BB	920	A	C5-N7-C8	-9.02	99.39	103.90
26	BB	943	A	O4'-C1'-N9	9.02	115.42	108.20
26	BB	1057	A	N1-C2-N3	9.02	133.81	129.30
26	BB	1677	A	C5'-C4'-O4'	9.02	119.93	109.10
26	BB	2184	A	C5-C6-N1	9.02	122.21	117.70
1	AA	749	A	O4'-C1'-N9	9.02	115.42	108.20
1	AA	1381	U	N1-C2-N3	9.02	120.31	114.90
26	BB	424	G	C5-C6-N1	9.02	116.01	111.50
26	BB	705	A	C1'-O4'-C4'	-9.02	102.68	109.90
26	BB	902	C	O4'-C4'-C3'	9.02	113.31	106.10
26	BB	1382	G	N1-C2-N3	-9.02	118.49	123.90
1	AA	148	G	N3-C4-N9	9.02	131.41	126.00
1	AA	281	G	C6-C5-N7	9.02	135.81	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	AJ	110	ARG	NE-CZ-NH2	-9.02	115.79	120.30
25	BA	11	C	C6-N1-C2	-9.02	116.69	120.30
26	BB	87	U	N1-C2-N3	9.02	120.31	114.90
26	BB	1286	A	N1-C6-N6	9.02	124.01	118.60
26	BB	2581	G	C4-C5-N7	-9.02	107.19	110.80
26	BB	339	U	N1-C2-N3	9.01	120.31	114.90
26	BB	834	G	N3-C4-C5	-9.01	124.09	128.60
26	BB	1375	U	C4-C5-C6	-9.01	114.29	119.70
26	BB	10	A	N1-C2-N3	-9.01	124.79	129.30
26	BB	770	G	C5-C6-O6	9.01	134.01	128.60
26	BB	2009	A	C6-N1-C2	-9.01	113.19	118.60
1	AA	361	G	N9-C4-C5	9.01	109.00	105.40
1	AA	758	C	N3-C4-C5	-9.01	118.30	121.90
26	BB	1847	A	C2-N3-C4	9.01	115.11	110.60
26	BB	868	U	C5-C4-O4	-9.01	120.49	125.90
26	BB	905	A	C4-C5-C6	9.01	121.50	117.00
26	BB	1810	A	N1-C6-N6	9.01	124.01	118.60
1	AA	601	G	C8-N9-C4	-9.01	102.80	106.40
1	AA	1339	A	C4-C5-N7	-9.01	106.20	110.70
26	BB	1511	G	C5-C6-O6	-9.01	123.19	128.60
1	AA	669	G	O4'-C1'-N9	9.01	115.41	108.20
1	AA	1186	G	O4'-C1'-N9	9.01	115.41	108.20
26	BB	494	G	N3-C4-C5	-9.01	124.10	128.60
26	BB	2438	U	C5-C6-N1	-9.01	118.20	122.70
58	B7	20	ASP	CB-CG-OD1	-9.01	110.19	118.30
26	BB	693	A	N7-C8-N9	9.01	118.30	113.80
56	B5	28	ARG	NE-CZ-NH1	9.01	124.80	120.30
1	AA	50	A	N9-C4-C5	-9.00	102.20	105.80
1	AA	597	G	C8-N9-C4	-9.00	102.80	106.40
1	AA	1124	G	N3-C4-C5	-9.00	124.10	128.60
1	AA	1194	U	N3-C2-O2	-9.00	115.90	122.20
4	AD	32	G	C2-N3-C4	9.00	116.40	111.90
26	BB	2303	G	C5-C6-N1	9.00	116.00	111.50
1	AA	65	A	C5-C6-N1	9.00	122.20	117.70
26	BB	2398	U	N1-C1'-C2'	-9.00	102.10	112.00
1	AA	372	C	N3-C4-C5	-9.00	118.30	121.90
1	AA	1377	A	C8-N9-C4	-9.00	102.20	105.80
26	BB	513	A	O4'-C1'-N9	9.00	115.40	108.20
26	BB	992	C	O4'-C1'-N1	9.00	115.40	108.20
26	BB	1698	A	C3'-C2'-C1'	9.00	108.70	101.50
26	BB	2859	G	C2-N3-C4	9.00	116.40	111.90
26	BB	612	G	N7-C8-N9	9.00	117.60	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	771	G	N3-C4-N9	9.00	131.40	126.00
26	BB	2877	G	O4'-C1'-N9	9.00	115.40	108.20
1	AA	616	G	N3-C4-C5	-8.99	124.10	128.60
26	BB	2453	A	C2-N3-C4	8.99	115.10	110.60
26	BB	47	C	C5'-C4'-O4'	8.99	119.89	109.10
26	BB	328	U	C3'-C2'-C1'	8.99	108.69	101.50
1	AA	210	C	C5-C6-N1	8.99	125.50	121.00
26	BB	1461	C	C4-C5-C6	-8.99	112.91	117.40
26	BB	2126	A	C4-C5-C6	-8.99	112.50	117.00
1	AA	508	U	C5-C6-N1	-8.99	118.21	122.70
26	BB	8	C	O4'-C1'-N1	8.99	115.39	108.20
26	BB	592	A	O4'-C1'-N9	8.99	115.39	108.20
1	AA	100	G	N3-C2-N2	-8.99	113.61	119.90
5	AE	224	ARG	NE-CZ-NH1	8.99	124.79	120.30
26	BB	1711	A	C5-C6-N1	8.99	122.19	117.70
1	AA	598	U	C3'-C2'-C1'	8.99	108.69	101.50
1	AA	1503	A	C4-C5-N7	-8.99	106.21	110.70
26	BB	529	A	O4'-C4'-C3'	8.99	113.29	106.10
26	BB	1822	C	C5-C4-N4	-8.99	113.91	120.20
26	BB	681	G	N1-C6-O6	8.99	125.29	119.90
26	BB	278	A	C5'-C4'-O4'	8.98	119.88	109.10
26	BB	2529	G	N3-C4-C5	-8.98	124.11	128.60
1	AA	1184	G	N9-C4-C5	8.98	108.99	105.40
26	BB	1500	G	N7-C8-N9	8.98	117.59	113.10
1	AA	935	A	C1'-O4'-C4'	8.98	117.09	109.90
26	BB	128	C	N3-C4-N4	-8.98	111.71	118.00
26	BB	1220	G	O4'-C1'-N9	8.98	115.38	108.20
26	BB	1497	U	N3-C4-C5	-8.98	109.21	114.60
26	BB	1999	C	N3-C2-O2	-8.98	115.61	121.90
26	BB	2681	C	N3-C2-O2	-8.98	115.61	121.90
1	AA	48	C	C2-N3-C4	8.98	124.39	119.90
1	AA	328	C	N3-C2-O2	-8.98	115.61	121.90
26	BB	1242	U	N1-C2-N3	8.98	120.29	114.90
26	BB	1362	C	C5-C6-N1	8.98	125.49	121.00
1	AA	715	A	C5-C6-N1	8.98	122.19	117.70
26	BB	2676	C	N3-C4-C5	-8.98	118.31	121.90
26	BB	2308	G	C5-C6-O6	8.97	133.99	128.60
1	AA	716	A	N1-C2-N3	-8.97	124.81	129.30
1	AA	883	C	N1-C2-O2	8.97	124.28	118.90
26	BB	672	C	N3-C4-N4	8.97	124.28	118.00
26	BB	1017	G	N9-C4-C5	-8.97	101.81	105.40
26	BB	1347	A	C8-N9-C4	-8.97	102.21	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1810	A	C5-C6-N6	-8.97	116.52	123.70
1	AA	38	G	O4'-C1'-N9	8.97	115.38	108.20
1	AA	234	C	C5-C4-N4	8.97	126.48	120.20
1	AA	396	C	N3-C2-O2	-8.97	115.62	121.90
1	AA	906	A	N7-C8-N9	8.97	118.28	113.80
2	AB	58	A	C8-N9-C4	-8.97	102.21	105.80
26	BB	1942	C	C3'-C2'-C1'	8.97	108.68	101.50
26	BB	1981	A	C5-C6-N6	8.97	130.88	123.70
26	BB	2072	C	C5-C4-N4	-8.97	113.92	120.20
1	AA	172	A	C6-N1-C2	8.97	123.98	118.60
1	AA	713	G	O4'-C1'-N9	8.97	115.38	108.20
32	BH	31	GLU	OE1-CD-OE2	8.97	134.06	123.30
1	AA	1304	G	N9-C1'-C2'	-8.97	102.14	112.00
1	AA	1489	G	N7-C8-N9	-8.97	108.62	113.10
25	BA	114	C	N3-C4-C5	-8.97	118.31	121.90
26	BB	70	G	C4-C5-C6	8.97	124.18	118.80
26	BB	613	A	C5-C6-N1	8.97	122.19	117.70
26	BB	1497	U	O4'-C1'-N1	8.97	115.37	108.20
26	BB	1770	G	C8-N9-C4	-8.97	102.81	106.40
26	BB	2198	A	C8-N9-C4	-8.97	102.21	105.80
1	AA	318	G	C5-C6-N1	-8.97	107.02	111.50
12	AL	112	ARG	NE-CZ-NH2	8.96	124.78	120.30
26	BB	468	G	C4-C5-N7	-8.96	107.21	110.80
26	BB	2340	A	O4'-C1'-N9	8.97	115.37	108.20
26	BB	2741	A	N1-C6-N6	-8.97	113.22	118.60
26	BB	1054	A	C8-N9-C4	-8.96	102.21	105.80
26	BB	1965	C	C4-C5-C6	-8.96	112.92	117.40
1	AA	419	C	C6-N1-C2	-8.96	116.72	120.30
1	AA	551	U	N1-C2-O2	8.96	129.07	122.80
26	BB	424	G	C8-N9-C4	-8.96	102.81	106.40
26	BB	473	G	C2-N3-C4	8.96	116.38	111.90
26	BB	662	G	O4'-C1'-N9	8.96	115.37	108.20
26	BB	1037	G	C4-C5-N7	8.96	114.39	110.80
26	BB	2056	G	O4'-C1'-N9	8.96	115.37	108.20
26	BB	2363	G	C5-C6-N1	8.96	115.98	111.50
39	BO	10	ARG	NE-CZ-NH2	-8.96	115.82	120.30
26	BB	2270	A	O4'-C1'-N9	8.96	115.37	108.20
1	AA	1507	A	C5-C6-N6	-8.96	116.53	123.70
26	BB	148	U	C5-C6-N1	-8.96	118.22	122.70
26	BB	339	U	C4-C5-C6	8.96	125.08	119.70
26	BB	2448	A	N9-C4-C5	8.96	109.38	105.80
26	BB	928	A	O4'-C1'-N9	8.96	115.37	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1603	A	C5-N7-C8	-8.96	99.42	103.90
26	BB	2008	C	N1-C2-O2	8.96	124.28	118.90
26	BB	2656	U	C5-C6-N1	-8.96	118.22	122.70
26	BB	2775	G	C8-N9-C4	-8.96	102.82	106.40
1	AA	33	A	C8-N9-C4	-8.95	102.22	105.80
1	AA	446	G	C4-C5-N7	-8.96	107.22	110.80
1	AA	1116	U	C4'-C3'-C2'	-8.95	93.65	102.60
26	BB	62	U	N3-C4-O4	8.96	125.67	119.40
26	BB	758	C	C5'-C4'-O4'	8.96	119.85	109.10
26	BB	932	U	N3-C2-O2	-8.96	115.93	122.20
26	BB	1010	A	N7-C8-N9	8.95	118.28	113.80
26	BB	1746	A	N1-C2-N3	-8.96	124.82	129.30
26	BB	2748	A	C6-C5-N7	8.95	138.57	132.30
26	BB	2897	U	C5-C4-O4	-8.96	120.53	125.90
1	AA	54	C	O4'-C1'-N1	8.95	115.36	108.20
1	AA	695	A	C8-N9-C4	-8.95	102.22	105.80
1	AA	810	C	C6-N1-C2	-8.95	116.72	120.30
26	BB	1521	G	N3-C4-N9	8.95	131.37	126.00
1	AA	989	U	C1'-O4'-C4'	-8.95	102.74	109.90
2	AB	52	A	C4-C5-C6	-8.95	112.52	117.00
26	BB	910	A	C8-N9-C4	-8.95	102.22	105.80
26	BB	1763	G	N3-C4-C5	-8.95	124.12	128.60
26	BB	1836	C	N1-C2-N3	-8.95	112.93	119.20
26	BB	1264	A	C6-N1-C2	-8.95	113.23	118.60
26	BB	2472	G	N3-C4-C5	-8.95	124.13	128.60
1	AA	117	G	C8-N9-C4	-8.95	102.82	106.40
1	AA	1371	G	C5-N7-C8	-8.95	99.83	104.30
26	BB	775	G	C4-C5-N7	-8.95	107.22	110.80
26	BB	2042	A	O4'-C1'-N9	8.95	115.36	108.20
1	AA	691	G	C8-N9-C4	-8.95	102.82	106.40
1	AA	1014	A	C5-N7-C8	8.95	108.37	103.90
26	BB	1470	A	C5-N7-C8	8.95	108.37	103.90
1	AA	1347	G	C8-N9-C4	-8.94	102.82	106.40
1	AA	1352	C	N1-C1'-C2'	-8.94	102.16	112.00
1	AA	1386	G	N9-C1'-C2'	-8.95	102.16	112.00
26	BB	346	A	C1'-O4'-C4'	8.95	117.06	109.90
26	BB	688	U	C5-C4-O4	-8.94	120.53	125.90
26	BB	816	C	C2-N3-C4	8.95	124.37	119.90
26	BB	918	A	C1'-O4'-C4'	-8.95	102.74	109.90
26	BB	2081	U	C3'-C2'-C1'	8.95	108.66	101.50
26	BB	2250	G	C6-C5-N7	8.95	135.77	130.40
1	AA	1077	G	C6-C5-N7	-8.94	125.03	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1218	C	O4'-C1'-N1	8.94	115.35	108.20
6	AF	178	ARG	NE-CZ-NH1	-8.94	115.83	120.30
26	BB	32	C	C4'-C3'-C2'	-8.94	93.66	102.60
26	BB	214	G	C1'-O4'-C4'	8.94	117.05	109.90
26	BB	1109	C	C4-C5-C6	-8.94	112.93	117.40
26	BB	1343	G	C6-N1-C2	-8.94	119.73	125.10
26	BB	2712	C	C1'-O4'-C4'	8.94	117.06	109.90
26	BB	1376	C	C4-C5-C6	-8.94	112.93	117.40
1	AA	204	G	N3-C4-C5	-8.94	124.13	128.60
1	AA	710	G	C4'-C3'-C2'	-8.94	93.66	102.60
1	AA	853	C	N3-C2-O2	-8.94	115.64	121.90
26	BB	882	G	C2-N3-C4	8.94	116.37	111.90
26	BB	1715	G	C8-N9-C4	-8.94	102.83	106.40
26	BB	2168	G	N3-C4-C5	-8.94	124.13	128.60
26	BB	417	C	O4'-C1'-N1	8.94	115.35	108.20
26	BB	1453	A	N9-C1'-C2'	-8.94	102.17	112.00
26	BB	1734	G	C6-C5-N7	8.94	135.76	130.40
1	AA	706	A	C8-N9-C4	-8.94	102.23	105.80
26	BB	332	A	O4'-C1'-C2'	-8.94	96.86	105.80
26	BB	1773	A	O4'-C1'-N9	8.94	115.35	108.20
26	BB	2405	G	C8-N9-C4	-8.94	102.83	106.40
26	BB	2811	G	P-O3'-C3'	8.93	130.42	119.70
1	AA	337	G	C5-C6-N1	-8.93	107.03	111.50
3	AC	37	G	N1-C2-N2	8.93	124.24	116.20
26	BB	29	U	N3-C4-O4	8.93	125.65	119.40
26	BB	1313	U	N3-C2-O2	-8.93	115.95	122.20
4	AD	7	G	N1-C6-O6	8.93	125.26	119.90
26	BB	668	A	N9-C4-C5	8.93	109.37	105.80
26	BB	1017	G	C5-N7-C8	-8.93	99.83	104.30
26	BB	1237	A	N9-C4-C5	-8.93	102.23	105.80
26	BB	1421	G	O4'-C1'-N9	8.93	115.34	108.20
26	BB	1940	U	C1'-O4'-C4'	-8.93	102.75	109.90
26	BB	1967	C	P-O3'-C3'	8.93	130.42	119.70
26	BB	1710	G	N9-C4-C5	8.93	108.97	105.40
26	BB	2048	G	N3-C4-N9	-8.93	120.64	126.00
1	AA	417	G	C5-C6-N1	8.93	115.96	111.50
1	AA	951	G	C6-N1-C2	-8.93	119.74	125.10
1	AA	768	A	N7-C8-N9	8.93	118.26	113.80
26	BB	51	G	N1-C6-O6	-8.93	114.54	119.90
26	BB	440	C	N3-C2-O2	-8.93	115.65	121.90
26	BB	522	A	N1-C2-N3	-8.93	124.84	129.30
26	BB	1311	G	N1-C2-N3	8.93	129.26	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1555	G	C5-C6-O6	-8.93	123.24	128.60
26	BB	2100	G	C4-C5-C6	8.93	124.16	118.80
26	BB	2515	C	C2-N3-C4	-8.93	115.44	119.90
1	AA	724	G	N9-C4-C5	-8.92	101.83	105.40
1	AA	1130	A	C2-N3-C4	8.92	115.06	110.60
1	AA	157	U	N1-C2-N3	8.92	120.25	114.90
1	AA	990	C	C5-C4-N4	-8.92	113.95	120.20
1	AA	1413	A	C1'-O4'-C4'	-8.92	102.76	109.90
26	BB	472	A	C5'-C4'-O4'	8.92	119.81	109.10
26	BB	651	G	N3-C4-C5	-8.92	124.14	128.60
26	BB	1005	C	C2-N3-C4	8.92	124.36	119.90
36	BL	96	ARG	NE-CZ-NH1	-8.92	115.84	120.30
26	BB	99	U	C5-C6-N1	-8.92	118.24	122.70
26	BB	272	A	N1-C2-N3	-8.92	124.84	129.30
26	BB	2367	G	N3-C4-C5	-8.92	124.14	128.60
26	BB	882	G	C5-C6-N1	-8.92	107.04	111.50
1	AA	1172	C	N1-C2-O2	8.92	124.25	118.90
1	AA	1260	G	N7-C8-N9	8.92	117.56	113.10
26	BB	167	A	C6-N1-C2	8.92	123.95	118.60
26	BB	726	G	C2-N3-C4	8.92	116.36	111.90
26	BB	2633	G	C4-C5-N7	-8.92	107.23	110.80
39	BO	66	ARG	NE-CZ-NH1	8.92	124.76	120.30
1	AA	88	U	C4'-C3'-C2'	-8.91	93.69	102.60
1	AA	19	A	N7-C8-N9	-8.91	109.34	113.80
1	AA	292	G	N1-C6-O6	-8.91	114.55	119.90
1	AA	1149	C	C3'-C2'-C1'	8.91	108.63	101.50
25	BA	13	G	N1-C6-O6	-8.91	114.55	119.90
26	BB	87	U	O4'-C1'-N1	8.91	115.33	108.20
26	BB	502	A	C4-C5-C6	-8.91	112.54	117.00
1	AA	337	G	C4-C5-N7	-8.91	107.23	110.80
1	AA	1410	A	N1-C6-N6	-8.91	113.25	118.60
26	BB	103	A	O4'-C1'-N9	8.91	115.33	108.20
26	BB	2029	G	C4'-C3'-C2'	-8.91	93.69	102.60
26	BB	1603	A	C4-C5-N7	8.91	115.16	110.70
1	AA	692	U	N3-C4-O4	8.91	125.64	119.40
1	AA	1300	G	C8-N9-C4	-8.91	102.84	106.40
1	AA	301	G	C5-C6-O6	-8.91	123.26	128.60
1	AA	547	A	N1-C6-N6	-8.91	113.25	118.60
26	BB	100	U	C5-C6-N1	-8.91	118.25	122.70
26	BB	670	A	C2-N3-C4	8.91	115.05	110.60
26	BB	1665	A	C8-N9-C4	-8.91	102.24	105.80
26	BB	1767	G	N9-C4-C5	8.91	108.96	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2328	A	N1-C6-N6	-8.91	113.26	118.60
26	BB	2553	G	N3-C4-C5	-8.91	124.15	128.60
1	AA	1312	G	C3'-C2'-C1'	8.90	108.62	101.50
2	AB	26	A	C5-C6-N1	8.90	122.15	117.70
21	AU	62	ARG	NE-CZ-NH2	-8.90	115.85	120.30
26	BB	61	C	O4'-C1'-N1	8.90	115.32	108.20
26	BB	144	A	C6-N1-C2	8.90	123.94	118.60
26	BB	1024	G	N7-C8-N9	8.90	117.55	113.10
26	BB	1187	G	C4-C5-N7	-8.90	107.24	110.80
1	AA	302	G	C5-C6-O6	-8.90	123.26	128.60
26	BB	518	G	C5-C6-O6	-8.90	123.26	128.60
1	AA	1153	G	C5-C6-O6	8.90	133.94	128.60
26	BB	350	G	N1-C6-O6	-8.90	114.56	119.90
26	BB	1270	C	O4'-C4'-C3'	8.90	113.22	106.10
26	BB	1536	C	O4'-C1'-N1	8.90	115.32	108.20
26	BB	2871	U	C2-N3-C4	-8.90	121.66	127.00
2	AB	39	A	O4'-C1'-N9	8.90	115.32	108.20
2	AB	74	C	N3-C2-O2	-8.90	115.67	121.90
26	BB	128	C	C4-C5-C6	-8.90	112.95	117.40
26	BB	2117	A	C3'-C2'-C1'	-8.90	94.38	101.50
1	AA	756	C	N3-C4-C5	-8.90	118.34	121.90
1	AA	1376	U	O4'-C1'-C2'	8.89	115.61	107.60
1	AA	443	C	C5-C4-N4	-8.89	113.97	120.20
1	AA	1430	A	C5-C6-N6	-8.89	116.58	123.70
26	BB	643	A	C4-C5-N7	-8.89	106.25	110.70
26	BB	681	G	C5-C6-O6	-8.89	123.26	128.60
26	BB	1023	U	C5-C6-N1	-8.89	118.25	122.70
26	BB	1577	C	O4'-C1'-N1	8.89	115.31	108.20
26	BB	1964	G	O4'-C1'-C2'	-8.89	96.91	105.80
1	AA	250	A	N9-C4-C5	8.89	109.36	105.80
1	AA	356	A	N1-C6-N6	-8.89	113.27	118.60
26	BB	1703	G	O4'-C1'-N9	8.89	115.31	108.20
1	AA	739	C	N3-C4-N4	-8.89	111.78	118.00
26	BB	1884	G	O4'-C1'-N9	-8.89	101.09	108.20
26	BB	2407	A	C5-C6-N6	-8.89	116.59	123.70
26	BB	2621	G	O4'-C1'-N9	8.89	115.31	108.20
1	AA	725	G	N7-C8-N9	8.88	117.54	113.10
1	AA	814	A	C2-N3-C4	-8.89	106.16	110.60
26	BB	186	G	C8-N9-C4	-8.89	102.85	106.40
1	AA	1471	U	C5-C4-O4	8.88	131.23	125.90
26	BB	589	U	C5'-C4'-O4'	8.88	119.76	109.10
26	BB	1453	A	C1'-O4'-C4'	-8.88	102.79	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2351	G	C8-N9-C4	-8.88	102.85	106.40
28	BD	202	ARG	NE-CZ-NH1	8.88	124.74	120.30
1	AA	14	U	C4-C5-C6	8.88	125.03	119.70
1	AA	515	G	C5-C6-O6	8.88	133.93	128.60
2	AB	18	G	C3'-C2'-C1'	8.88	108.61	101.50
26	BB	483	A	C6-N1-C2	8.88	123.93	118.60
26	BB	886	A	C3'-C2'-C1'	8.88	108.61	101.50
26	BB	1204	A	N1-C2-N3	-8.88	124.86	129.30
26	BB	2618	G	C6-C5-N7	-8.88	125.07	130.40
26	BB	2813	A	O4'-C1'-N9	8.88	115.31	108.20
26	BB	139	U	O4'-C1'-C2'	-8.88	96.92	105.80
26	BB	669	G	O4'-C4'-C3'	8.88	113.20	106.10
26	BB	1685	C	N3-C4-C5	-8.88	118.35	121.90
26	BB	1980	G	C2-N3-C4	8.88	116.34	111.90
26	BB	2244	U	N3-C2-O2	-8.88	115.98	122.20
1	AA	310	G	C5-N7-C8	-8.88	99.86	104.30
1	AA	1310	G	O4'-C1'-N9	8.88	115.30	108.20
1	AA	1448	C	N1-C2-O2	8.88	124.23	118.90
26	BB	90	U	C5-C6-N1	-8.88	118.26	122.70
26	BB	696	G	O4'-C1'-N9	8.88	115.30	108.20
1	AA	493	A	N9-C4-C5	8.88	109.35	105.80
1	AA	753	A	C6-N1-C2	8.88	123.93	118.60
2	AB	11	U	O4'-C1'-N1	8.88	115.30	108.20
26	BB	129	C	N1-C2-O2	8.88	124.23	118.90
26	BB	1226	A	C4-C5-C6	8.88	121.44	117.00
26	BB	2602	A	N9-C1'-C2'	8.88	125.54	114.00
26	BB	1880	U	C5-C6-N1	-8.87	118.26	122.70
1	AA	158	G	N1-C6-O6	8.87	125.22	119.90
1	AA	423	G	N1-C6-O6	-8.87	114.58	119.90
1	AA	452	A	C8-N9-C4	-8.87	102.25	105.80
26	BB	2055	C	C2-N3-C4	-8.87	115.46	119.90
1	AA	352	C	C1'-O4'-C4'	8.87	117.00	109.90
1	AA	1494	G	N3-C2-N2	8.87	126.11	119.90
26	BB	1588	G	N3-C4-N9	8.87	131.32	126.00
26	BB	2263	C	N3-C4-C5	-8.87	118.35	121.90
26	BB	2439	A	C6-N1-C2	8.87	123.92	118.60
26	BB	2455	G	N3-C2-N2	-8.87	113.69	119.90
26	BB	669	G	C4'-C3'-C2'	-8.87	93.73	102.60
1	AA	1206	G	O4'-C1'-N9	8.87	115.29	108.20
1	AA	1236	A	N1-C2-N3	8.87	133.73	129.30
26	BB	764	A	C5-N7-C8	8.87	108.33	103.90
26	BB	777	G	O4'-C1'-N9	8.87	115.30	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2439	A	C6-C5-N7	8.87	138.51	132.30
26	BB	233	A	C3'-C2'-C1'	8.87	108.59	101.50
26	BB	1259	G	N7-C8-N9	8.87	117.53	113.10
1	AA	648	A	C6-N1-C2	-8.87	113.28	118.60
26	BB	15	G	N1-C6-O6	8.87	125.22	119.90
26	BB	1813	G	C5-N7-C8	8.87	108.73	104.30
1	AA	855	U	C5-C6-N1	-8.86	118.27	122.70
1	AA	1323	G	C6-N1-C2	-8.87	119.78	125.10
26	BB	162	U	N1-C2-N3	8.87	120.22	114.90
26	BB	1861	G	O4'-C1'-N9	8.86	115.29	108.20
1	AA	1284	C	N3-C2-O2	-8.86	115.70	121.90
1	AA	1362	A	C3'-C2'-C1'	8.86	108.59	101.50
1	AA	376	G	C5-C6-O6	-8.86	123.28	128.60
1	AA	742	G	C3'-C2'-C1'	-8.86	94.41	101.50
26	BB	146	A	C1'-O4'-C4'	-8.86	102.81	109.90
26	BB	350	G	C5-C6-N1	8.86	115.93	111.50
26	BB	610	C	O4'-C1'-N1	8.86	115.29	108.20
26	BB	881	G	C4-C5-C6	8.86	124.12	118.80
26	BB	950	G	N3-C4-C5	-8.86	124.17	128.60
26	BB	1197	G	N9-C4-C5	-8.86	101.86	105.40
1	AA	107	G	N9-C4-C5	8.86	108.94	105.40
1	AA	1031	C	C4-C5-C6	8.86	121.83	117.40
1	AA	1455	G	N1-C2-N3	-8.86	118.58	123.90
26	BB	400	G	N3-C2-N2	8.86	126.10	119.90
26	BB	563	A	N1-C6-N6	-8.86	113.28	118.60
26	BB	809	G	C5-C6-N1	8.86	115.93	111.50
26	BB	1928	A	C5-N7-C8	8.86	108.33	103.90
26	BB	1299	G	C5-C6-N1	-8.86	107.07	111.50
26	BB	2292	U	C5-C6-N1	-8.86	118.27	122.70
26	BB	2350	C	N1-C2-O2	8.86	124.22	118.90
1	AA	65	A	C4-C5-C6	-8.86	112.57	117.00
1	AA	212	G	N7-C8-N9	8.86	117.53	113.10
26	BB	186	G	N9-C4-C5	8.86	108.94	105.40
26	BB	545	U	C3'-C2'-C1'	8.86	108.58	101.50
26	BB	766	U	C5-C4-O4	-8.86	120.59	125.90
26	BB	1197	G	N3-C4-N9	8.86	131.31	126.00
26	BB	2032	G	C6-N1-C2	-8.86	119.79	125.10
26	BB	2117	A	C6-N1-C2	-8.86	113.29	118.60
26	BB	2501	C	N1-C2-O2	8.86	124.21	118.90
25	BA	10	G	N1-C6-O6	-8.85	114.59	119.90
26	BB	238	C	C4-C5-C6	8.85	121.83	117.40
26	BB	340	A	N9-C4-C5	-8.85	102.26	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2055	C	C5-C4-N4	-8.85	114.00	120.20
1	AA	204	G	N1-C6-O6	-8.85	114.59	119.90
26	BB	2238	G	C6-C5-N7	-8.85	125.09	130.40
1	AA	1403	C	C2-N3-C4	8.85	124.32	119.90
1	AA	1403	C	C6-N1-C2	8.85	123.84	120.30
26	BB	226	A	C5-C6-N6	-8.85	116.62	123.70
26	BB	649	G	N9-C1'-C2'	-8.85	102.27	112.00
26	BB	1722	A	N3-C4-C5	-8.85	120.61	126.80
26	BB	2092	U	C4-C5-C6	8.85	125.01	119.70
26	BB	2337	G	N3-C4-N9	8.85	131.31	126.00
26	BB	2656	U	O4'-C1'-N1	8.85	115.28	108.20
26	BB	2836	U	O4'-C1'-N1	8.85	115.28	108.20
26	BB	1055	G	C4-C5-N7	-8.85	107.26	110.80
1	AA	648	A	O4'-C1'-N9	8.85	115.28	108.20
1	AA	949	A	N7-C8-N9	-8.85	109.38	113.80
26	BB	1250	G	N3-C2-N2	8.85	126.09	119.90
26	BB	1995	U	N3-C4-O4	8.85	125.59	119.40
1	AA	477	C	N3-C4-N4	8.84	124.19	118.00
1	AA	628	G	O4'-C1'-N9	8.84	115.28	108.20
1	AA	740	U	C5'-C4'-O4'	8.84	119.71	109.10
26	BB	2472	G	C5-C6-N1	8.84	115.92	111.50
4	AD	66	C	C5-C4-N4	-8.84	114.01	120.20
26	BB	1170	C	C2-N3-C4	8.84	124.32	119.90
26	BB	1494	A	C6-N1-C2	8.84	123.91	118.60
1	AA	905	U	O4'-C1'-N1	8.84	115.27	108.20
1	AA	907	A	C5'-C4'-O4'	8.84	119.71	109.10
1	AA	1229	A	N9-C4-C5	8.84	109.34	105.80
2	AB	5	G	N9-C4-C5	8.84	108.94	105.40
3	AC	56	G	C5-C6-O6	-8.84	123.30	128.60
26	BB	1510	G	C5-C6-N1	8.84	115.92	111.50
26	BB	2059	A	N1-C6-N6	-8.84	113.30	118.60
26	BB	2574	G	N1-C2-N3	8.84	129.20	123.90
26	BB	2657	A	C6-C5-N7	8.84	138.49	132.30
1	AA	117	G	O4'-C1'-N9	8.84	115.27	108.20
26	BB	94	A	C5-N7-C8	8.84	108.32	103.90
26	BB	882	G	C6-N1-C2	8.84	130.40	125.10
26	BB	1066	U	N1-C2-N3	8.84	120.20	114.90
26	BB	2456	C	C2-N3-C4	8.84	124.32	119.90
26	BB	1701	A	C4-C5-C6	-8.84	112.58	117.00
1	AA	55	A	N9-C4-C5	8.83	109.33	105.80
25	BA	99	A	N1-C6-N6	-8.83	113.30	118.60
26	BB	1665	A	N7-C8-N9	8.83	118.22	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BK	7	TYR	CB-CG-CD1	8.83	126.30	121.00
1	AA	510	A	C6-C5-N7	8.83	138.48	132.30
1	AA	578	C	C5'-C4'-O4'	8.83	119.70	109.10
1	AA	627	G	N1-C2-N3	-8.83	118.60	123.90
4	AD	27	G	N9-C4-C5	8.83	108.93	105.40
26	BB	1157	G	N7-C8-N9	8.83	117.52	113.10
26	BB	1903	G	N3-C4-C5	-8.83	124.18	128.60
1	AA	364	A	C4-C5-N7	8.83	115.11	110.70
1	AA	1001	C	C5-C4-N4	-8.83	114.02	120.20
26	BB	553	G	O4'-C1'-N9	8.83	115.27	108.20
26	BB	743	A	C5-C6-N6	-8.83	116.64	123.70
1	AA	1293	C	N3-C4-N4	-8.83	111.82	118.00
1	AA	1360	A	N1-C2-N3	-8.83	124.89	129.30
25	BA	79	G	C4-C5-N7	-8.83	107.27	110.80
26	BB	1074	G	N3-C4-C5	-8.83	124.19	128.60
26	BB	1252	G	O4'-C1'-N9	8.83	115.26	108.20
26	BB	1753	G	C8-N9-C4	-8.83	102.87	106.40
26	BB	2515	C	N3-C4-C5	8.83	125.43	121.90
26	BB	2669	G	C5-C6-N1	-8.83	107.08	111.50
1	AA	71	A	C1'-O4'-C4'	8.83	116.96	109.90
1	AA	577	G	N3-C4-C5	-8.83	124.19	128.60
26	BB	86	G	C4-C5-N7	-8.83	107.27	110.80
26	BB	750	A	O4'-C1'-N9	8.83	115.26	108.20
26	BB	875	G	C5-C6-N1	8.83	115.91	111.50
26	BB	1022	G	O4'-C4'-C3'	8.83	113.16	106.10
26	BB	1794	A	C5-C6-N1	8.83	122.11	117.70
25	BA	7	G	C8-N9-C4	-8.82	102.87	106.40
26	BB	1803	A	C8-N9-C4	-8.82	102.27	105.80
26	BB	2296	U	O4'-C1'-N1	8.82	115.26	108.20
1	AA	988	G	C2-N3-C4	-8.82	107.49	111.90
26	BB	951	C	N3-C2-O2	-8.82	115.72	121.90
26	BB	2113	U	C1'-O4'-C4'	-8.82	102.84	109.90
46	BV	77	ARG	NE-CZ-NH1	8.82	124.71	120.30
1	AA	323	U	O4'-C1'-N1	-8.82	101.14	108.20
1	AA	403	C	O4'-C1'-N1	8.82	115.25	108.20
3	AC	48	C	N3-C4-C5	-8.82	118.37	121.90
26	BB	588	U	C2-N3-C4	-8.82	121.71	127.00
39	BO	31	PHE	CB-CG-CD2	-8.82	114.62	120.80
1	AA	945	G	C5-N7-C8	-8.82	99.89	104.30
26	BB	420	C	N3-C4-C5	-8.82	118.37	121.90
26	BB	619	G	N3-C4-C5	-8.82	124.19	128.60
26	BB	1155	A	N1-C2-N3	-8.82	124.89	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	425	G	C5-N7-C8	-8.82	99.89	104.30
26	BB	1079	C	N3-C4-C5	-8.82	118.37	121.90
26	BB	2290	G	N1-C6-O6	-8.82	114.61	119.90
1	AA	718	A	C1'-O4'-C4'	-8.81	102.85	109.90
1	AA	990	C	O4'-C1'-N1	8.81	115.25	108.20
1	AA	1351	U	O4'-C1'-N1	8.81	115.25	108.20
1	AA	1515	G	C4-C5-N7	-8.81	107.28	110.80
26	BB	242	G	P-O3'-C3'	8.81	130.28	119.70
26	BB	856	G	N3-C4-C5	-8.81	124.19	128.60
26	BB	2830	C	C3'-C2'-C1'	-8.81	94.45	101.50
1	AA	818	G	C6-C5-N7	-8.81	125.11	130.40
1	AA	1058	G	C4-C5-N7	-8.81	107.28	110.80
1	AA	1383	C	C5'-C4'-C3'	-8.81	101.90	116.00
25	BA	113	C	C2-N3-C4	8.81	124.31	119.90
26	BB	1103	A	N1-C6-N6	-8.81	113.31	118.60
26	BB	2394	C	C3'-C2'-C1'	8.81	108.55	101.50
2	AB	44	G	C4'-C3'-C2'	-8.81	93.79	102.60
26	BB	665	U	N1-C2-N3	8.81	120.19	114.90
26	BB	1409	U	C4'-C3'-C2'	-8.81	93.79	102.60
26	BB	2839	G	N1-C6-O6	8.81	125.19	119.90
26	BB	2146	C	O4'-C1'-N1	8.81	115.25	108.20
26	BB	2799	A	N9-C4-C5	8.81	109.32	105.80
26	BB	716	A	O4'-C1'-N9	8.81	115.25	108.20
26	BB	1202	G	N1-C6-O6	-8.81	114.61	119.90
26	BB	1795	C	C4'-C3'-C2'	-8.81	93.79	102.60
26	BB	1859	U	C4-C5-C6	8.81	124.98	119.70
26	BB	2015	A	N7-C8-N9	8.81	118.20	113.80
1	AA	1056	U	O4'-C1'-N1	8.81	115.25	108.20
26	BB	6	A	C4-C5-C6	8.81	121.40	117.00
26	BB	392	U	C5-C6-N1	-8.81	118.30	122.70
26	BB	1164	C	N1-C2-O2	8.81	124.18	118.90
26	BB	1967	C	O4'-C1'-N1	8.81	115.25	108.20
26	BB	2707	U	N1-C1'-C2'	-8.81	102.31	112.00
1	AA	610	U	N1-C2-N3	8.80	120.18	114.90
1	AA	743	A	C4-C5-N7	-8.81	106.30	110.70
26	BB	1004	U	C5-C4-O4	-8.81	120.62	125.90
26	BB	515	A	N9-C4-C5	8.80	109.32	105.80
26	BB	2091	C	N1-C2-O2	-8.80	113.62	118.90
1	AA	344	A	C4-C5-N7	8.80	115.10	110.70
1	AA	1515	G	C5-C6-N1	8.80	115.90	111.50
26	BB	1888	G	C8-N9-C4	-8.80	102.88	106.40
4	AD	14	A	N9-C4-C5	8.80	109.32	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1521	C	C4-C5-C6	-8.80	113.00	117.40
1	AA	270	A	C3'-C2'-C1'	-8.80	94.46	101.50
1	AA	1416	G	N1-C2-N2	8.80	124.12	116.20
26	BB	508	A	N1-C2-N3	-8.80	124.90	129.30
26	BB	585	G	N7-C8-N9	-8.80	108.70	113.10
26	BB	1149	G	N3-C4-N9	8.80	131.28	126.00
26	BB	2528	U	O4'-C1'-N1	8.80	115.24	108.20
26	BB	2791	G	C5-N7-C8	-8.80	99.90	104.30
1	AA	106	C	N1-C1'-C2'	-8.80	102.32	112.00
1	AA	601	G	N7-C8-N9	8.80	117.50	113.10
1	AA	852	G	N3-C4-N9	8.79	131.28	126.00
4	AD	14	A	C4-C5-C6	8.79	121.40	117.00
26	BB	394	C	O4'-C1'-N1	8.80	115.24	108.20
26	BB	1079	C	C2-N3-C4	8.79	124.30	119.90
1	AA	344	A	O4'-C1'-N9	8.79	115.23	108.20
26	BB	222	A	C4-C5-C6	8.79	121.40	117.00
26	BB	1127	A	N1-C2-N3	-8.79	124.91	129.30
26	BB	1484	U	N3-C2-O2	-8.79	116.05	122.20
26	BB	2200	C	C5-C4-N4	-8.79	114.05	120.20
26	BB	2463	C	C5-C4-N4	-8.79	114.05	120.20
26	BB	2428	G	P-O3'-C3'	8.79	130.25	119.70
26	BB	2902	C	C3'-C2'-C1'	8.79	108.53	101.50
26	BB	1279	G	C4-C5-N7	-8.79	107.28	110.80
26	BB	1723	G	C4'-C3'-C2'	-8.79	93.81	102.60
1	AA	1327	C	N1-C2-O2	8.79	124.17	118.90
1	AA	1386	G	C5-N7-C8	8.79	108.69	104.30
1	AA	396	C	C5-C4-N4	-8.78	114.05	120.20
26	BB	1781	U	C3'-C2'-C1'	8.78	108.53	101.50
26	BB	2638	G	O4'-C1'-N9	8.79	115.23	108.20
1	AA	834	U	C2-N3-C4	-8.78	121.73	127.00
26	BB	435	C	N3-C2-O2	-8.78	115.75	121.90
26	BB	1106	G	O4'-C1'-N9	8.78	115.23	108.20
26	BB	1491	G	N3-C2-N2	-8.78	113.75	119.90
26	BB	1723	G	N3-C4-C5	-8.78	124.21	128.60
1	AA	126	G	C2-N3-C4	8.78	116.29	111.90
1	AA	306	A	O4'-C1'-N9	8.78	115.22	108.20
1	AA	354	G	O4'-C1'-N9	8.78	115.22	108.20
1	AA	485	U	N3-C2-O2	-8.78	116.06	122.20
1	AA	1476	A	C4-C5-N7	-8.78	106.31	110.70
26	BB	2207	C	C5'-C4'-O4'	8.78	119.64	109.10
1	AA	1023	U	C4-C5-C6	8.78	124.97	119.70
1	AA	1024	G	C6-N1-C2	-8.78	119.83	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	47	C	C1'-O4'-C4'	8.78	116.92	109.90
26	BB	579	G	C3'-C2'-C1'	-8.78	94.48	101.50
26	BB	1351	C	O4'-C1'-N1	8.78	115.22	108.20
26	BB	1700	A	C5-C6-N6	-8.78	116.68	123.70
26	BB	2383	G	C2-N3-C4	8.78	116.29	111.90
1	AA	1260	G	N9-C4-C5	-8.78	101.89	105.40
1	AA	1309	G	N3-C4-C5	-8.78	124.21	128.60
26	BB	1243	C	N1-C2-N3	-8.78	113.06	119.20
46	BV	76	ARG	NE-CZ-NH2	-8.78	115.91	120.30
26	BB	1300	G	C3'-C2'-C1'	8.78	108.52	101.50
26	BB	1504	A	C4-C5-C6	-8.78	112.61	117.00
26	BB	2024	G	O4'-C1'-N9	8.78	115.22	108.20
1	AA	344	A	C4-C5-C6	8.77	121.39	117.00
1	AA	533	A	C5'-C4'-O4'	8.77	119.63	109.10
1	AA	740	U	C5-C6-N1	-8.77	118.31	122.70
1	AA	1404	C	N1-C2-O2	8.77	124.16	118.90
1	AA	1506	U	C5-C6-N1	-8.77	118.31	122.70
1	AA	617	G	C4-C5-N7	8.77	114.31	110.80
1	AA	1038	C	N3-C4-C5	-8.77	118.39	121.90
26	BB	218	A	C2-N3-C4	8.77	114.99	110.60
26	BB	269	C	O4'-C1'-N1	8.77	115.22	108.20
26	BB	381	G	C8-N9-C4	-8.77	102.89	106.40
26	BB	484	C	N3-C4-C5	8.77	125.41	121.90
26	BB	485	C	N3-C4-C5	-8.77	118.39	121.90
26	BB	860	U	C6-N1-C2	-8.77	115.74	121.00
26	BB	1712	U	O4'-C1'-N1	8.77	115.22	108.20
26	BB	2276	G	C1'-O4'-C4'	8.77	116.92	109.90
4	AD	28	U	O4'-C1'-N1	8.77	115.22	108.20
26	BB	1828	G	C8-N9-C4	-8.77	102.89	106.40
26	BB	1951	U	C6-N1-C2	-8.77	115.74	121.00
1	AA	443	C	C2-N3-C4	-8.77	115.52	119.90
1	AA	1094	G	N3-C4-N9	-8.77	120.74	126.00
26	BB	1310	G	C6-N1-C2	-8.77	119.84	125.10
26	BB	22	C	N1-C2-O2	8.77	124.16	118.90
26	BB	128	C	N3-C2-O2	-8.77	115.77	121.90
26	BB	2870	C	C6-N1-C2	-8.77	116.79	120.30
1	AA	432	A	C8-N9-C4	-8.76	102.29	105.80
1	AA	577	G	C5-N7-C8	8.76	108.68	104.30
1	AA	1068	G	C8-N9-C4	-8.76	102.89	106.40
1	AA	371	A	N7-C8-N9	-8.76	109.42	113.80
1	AA	670	G	C5-C6-O6	-8.76	123.34	128.60
26	BB	714	U	N3-C2-O2	-8.76	116.07	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1366	A	O4'-C1'-N9	8.76	115.21	108.20
26	BB	2308	G	C6-N1-C2	-8.76	119.84	125.10
26	BB	2578	G	C4-C5-N7	8.76	114.31	110.80
43	BS	52	ARG	NE-CZ-NH1	8.76	124.68	120.30
1	AA	183	C	C2-N3-C4	-8.76	115.52	119.90
1	AA	238	A	C2-N3-C4	8.76	114.98	110.60
26	BB	2	G	C6-N1-C2	-8.76	119.84	125.10
26	BB	806	C	C4-C5-C6	-8.76	113.02	117.40
1	AA	728	A	O4'-C1'-N9	8.76	115.21	108.20
26	BB	134	G	C8-N9-C4	-8.76	102.90	106.40
26	BB	1168	G	C8-N9-C4	-8.76	102.90	106.40
1	AA	388	G	C4-C5-N7	-8.76	107.30	110.80
1	AA	739	C	O4'-C1'-N1	8.76	115.20	108.20
1	AA	1166	G	C4-C5-N7	-8.76	107.30	110.80
26	BB	2186	G	N7-C8-N9	8.76	117.48	113.10
26	BB	15	G	N3-C2-N2	-8.76	113.77	119.90
26	BB	2617	U	C6-N1-C2	-8.76	115.75	121.00
8	AH	19	ARG	NE-CZ-NH1	-8.75	115.92	120.30
26	BB	490	C	N3-C2-O2	-8.75	115.77	121.90
26	BB	2877	G	C3'-C2'-C1'	8.75	108.50	101.50
1	AA	484	G	P-O3'-C3'	8.75	130.20	119.70
6	AF	178	ARG	NE-CZ-NH2	-8.75	115.92	120.30
26	BB	68	G	C4-C5-C6	-8.75	113.55	118.80
26	BB	85	G	C5-N7-C8	8.75	108.68	104.30
26	BB	625	G	N9-C4-C5	8.75	108.90	105.40
24	AX	66	ARG	NE-CZ-NH2	8.75	124.68	120.30
26	BB	469	G	N7-C8-N9	8.75	117.47	113.10
26	BB	495	G	C6-C5-N7	-8.75	125.15	130.40
26	BB	568	U	O4'-C4'-C3'	8.75	113.10	106.10
26	BB	2329	U	C6-N1-C2	-8.75	115.75	121.00
1	AA	403	C	N3-C4-C5	-8.75	118.40	121.90
1	AA	564	C	N3-C4-N4	8.75	124.12	118.00
1	AA	1169	A	C5-N7-C8	8.75	108.27	103.90
26	BB	132	G	C2-N3-C4	8.75	116.27	111.90
26	BB	148	U	C1'-O4'-C4'	8.75	116.90	109.90
26	BB	813	U	C6-N1-C2	-8.75	115.75	121.00
26	BB	1603	A	O4'-C4'-C3'	8.75	113.10	106.10
26	BB	2047	C	O4'-C1'-N1	8.75	115.20	108.20
26	BB	2121	G	C6-C5-N7	-8.75	125.15	130.40
1	AA	940	C	O4'-C1'-N1	8.74	115.19	108.20
1	AA	1131	G	N1-C2-N3	-8.74	118.65	123.90
26	BB	169	G	N3-C4-C5	-8.74	124.23	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	748	G	C4-C5-N7	-8.74	107.30	110.80
26	BB	1409	U	C3'-C2'-C1'	8.74	108.50	101.50
1	AA	1001	C	N1-C2-O2	8.74	124.15	118.90
18	AR	88	ARG	NE-CZ-NH2	-8.74	115.93	120.30
25	BA	12	C	C3'-C2'-C1'	8.74	108.50	101.50
26	BB	68	G	C3'-C2'-C1'	8.74	108.50	101.50
26	BB	1688	U	C5-C4-O4	-8.74	120.65	125.90
28	BD	97	ASP	CB-CG-OD2	-8.74	110.43	118.30
1	AA	1365	G	C5-C6-O6	-8.74	123.36	128.60
1	AA	1459	G	O4'-C1'-N9	8.74	115.19	108.20
26	BB	228	C	O4'-C1'-N1	8.74	115.19	108.20
26	BB	1420	A	N9-C4-C5	-8.74	102.30	105.80
26	BB	1216	G	N3-C2-N2	-8.74	113.78	119.90
26	BB	1910	G	O4'-C1'-N9	8.74	115.19	108.20
26	BB	2444	G	C8-N9-C4	-8.74	102.90	106.40
26	BB	2717	C	C5-C4-N4	-8.74	114.08	120.20
25	BA	65	U	C5-C4-O4	8.74	131.14	125.90
26	BB	1362	C	C6-N1-C2	-8.74	116.81	120.30
26	BB	2049	G	C6-N1-C2	-8.74	119.86	125.10
26	BB	2593	U	C2-N3-C4	-8.74	121.76	127.00
26	BB	2627	G	N3-C4-N9	8.74	131.24	126.00
26	BB	2808	G	C4-C5-N7	8.74	114.29	110.80
1	AA	741	G	C5-N7-C8	-8.73	99.93	104.30
1	AA	568	G	N3-C4-C5	-8.73	124.23	128.60
1	AA	1168	U	N1-C2-N3	8.73	120.14	114.90
26	BB	495	G	N3-C2-N2	-8.73	113.79	119.90
26	BB	1889	A	C2-N3-C4	8.73	114.97	110.60
26	BB	2294	G	N3-C4-C5	-8.73	124.23	128.60
1	AA	81	A	C3'-C2'-C1'	-8.73	94.51	101.50
1	AA	269	C	N3-C4-N4	-8.73	111.89	118.00
1	AA	2	A	C3'-C2'-C1'	-8.73	94.52	101.50
1	AA	141	G	O4'-C1'-N9	8.73	115.19	108.20
1	AA	466	A	O4'-C1'-N9	8.73	115.19	108.20
1	AA	635	A	N9-C1'-C2'	-8.73	102.39	112.00
12	AL	122	ARG	NE-CZ-NH2	-8.73	115.93	120.30
26	BB	2157	G	O4'-C1'-N9	8.73	115.19	108.20
25	BA	30	C	O4'-C1'-N1	8.73	115.18	108.20
25	BA	44	G	C2-N3-C4	8.73	116.27	111.90
26	BB	1664	A	N9-C4-C5	8.73	109.29	105.80
26	BB	2744	G	C4-C5-N7	-8.73	107.31	110.80
26	BB	2366	A	O4'-C1'-N9	8.73	115.18	108.20
26	BB	171	U	C2-N3-C4	-8.73	121.76	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2891	U	C5-C6-N1	-8.73	118.34	122.70
2	AB	50	G	N9-C4-C5	8.73	108.89	105.40
26	BB	452	G	N3-C4-N9	8.73	131.24	126.00
26	BB	1099	G	N3-C4-C5	-8.73	124.24	128.60
26	BB	1512	C	O4'-C1'-N1	8.73	115.18	108.20
26	BB	1828	G	C6-N1-C2	-8.73	119.86	125.10
1	AA	332	G	N3-C4-N9	-8.72	120.77	126.00
1	AA	398	U	O4'-C1'-N1	8.72	115.18	108.20
1	AA	413	G	C4-C5-N7	8.72	114.29	110.80
1	AA	1160	G	C5-C6-O6	-8.72	123.36	128.60
1	AA	1514	G	C2-N3-C4	8.72	116.26	111.90
26	BB	830	G	C6-C5-N7	-8.72	125.17	130.40
26	BB	1848	A	N9-C4-C5	8.72	109.29	105.80
26	BB	1987	A	C8-N9-C4	-8.72	102.31	105.80
26	BB	2049	G	C8-N9-C4	8.72	109.89	106.40
26	BB	2614	A	N1-C2-N3	-8.72	124.94	129.30
1	AA	450	G	N9-C4-C5	8.72	108.89	105.40
18	AR	63	ARG	NE-CZ-NH1	8.72	124.66	120.30
26	BB	478	A	C4-C5-N7	-8.72	106.34	110.70
26	BB	708	G	C5-C6-O6	8.72	133.83	128.60
26	BB	1139	G	C3'-C2'-C1'	-8.72	94.52	101.50
26	BB	2276	G	C4-C5-N7	-8.72	107.31	110.80
26	BB	2464	G	C5-C6-O6	-8.72	123.37	128.60
26	BB	2586	U	C5'-C4'-O4'	8.72	119.57	109.10
26	BB	2697	G	N9-C4-C5	8.72	108.89	105.40
1	AA	9	G	N9-C4-C5	8.72	108.89	105.40
1	AA	125	U	N3-C2-O2	-8.72	116.10	122.20
1	AA	1228	C	C2-N3-C4	8.72	124.26	119.90
1	AA	1346	A	N1-C6-N6	-8.72	113.37	118.60
2	AB	26	A	C5-C6-N6	-8.72	116.73	123.70
3	AC	48	C	C2-N3-C4	8.72	124.26	119.90
6	AF	17	TRP	CE2-CD2-CG	8.72	114.27	107.30
26	BB	599	A	N9-C1'-C2'	-8.72	102.41	112.00
26	BB	1533	C	C2-N3-C4	-8.72	115.54	119.90
26	BB	1721	G	N3-C4-C5	-8.72	124.24	128.60
26	BB	2033	A	C8-N9-C4	-8.72	102.31	105.80
53	B2	4	ASP	CB-CG-OD2	-8.72	110.45	118.30
1	AA	1178	G	N1-C6-O6	-8.72	114.67	119.90
1	AA	1451	U	O4'-C1'-N1	8.72	115.17	108.20
26	BB	429	A	C8-N9-C4	-8.72	102.31	105.80
1	AA	14	U	C5-C4-O4	8.71	131.13	125.90
26	BB	2014	A	C4-C5-N7	-8.71	106.34	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2352	A	C5-C6-N1	8.71	122.06	117.70
26	BB	2424	C	C5-C6-N1	8.71	125.36	121.00
26	BB	2584	U	N1-C2-O2	-8.71	116.70	122.80
1	AA	475	C	C4'-C3'-C2'	-8.71	93.89	102.60
1	AA	740	U	N1-C2-O2	8.71	128.90	122.80
26	BB	1296	G	N9-C4-C5	8.71	108.89	105.40
1	AA	1006	G	O4'-C1'-N9	8.71	115.17	108.20
1	AA	1257	A	N3-C4-N9	8.71	134.37	127.40
26	BB	1664	A	N1-C2-N3	-8.71	124.94	129.30
26	BB	2685	G	O4'-C4'-C3'	8.71	113.07	106.10
1	AA	187	G	C5-C6-N1	8.71	115.85	111.50
1	AA	1237	C	C5-C6-N1	8.71	125.35	121.00
26	BB	604	G	C4-C5-N7	-8.71	107.32	110.80
26	BB	818	G	C2-N3-C4	8.71	116.25	111.90
26	BB	2168	G	C4-C5-C6	8.71	124.02	118.80
26	BB	2223	G	C4'-C3'-C2'	-8.71	93.89	102.60
26	BB	2801	G	N7-C8-N9	8.71	117.45	113.10
26	BB	2867	G	C5-N7-C8	8.71	108.65	104.30
1	AA	87	C	O4'-C1'-N1	8.71	115.16	108.20
1	AA	412	A	C5'-C4'-O4'	8.71	119.55	109.10
1	AA	820	U	C2-N3-C4	-8.70	121.78	127.00
26	BB	382	A	C4-C5-N7	-8.71	106.35	110.70
1	AA	663	A	N1-C2-N3	-8.70	124.95	129.30
26	BB	248	G	O4'-C1'-N9	8.70	115.16	108.20
26	BB	278	A	C5-C6-N1	8.70	122.05	117.70
1	AA	81	A	C8-N9-C4	-8.70	102.32	105.80
1	AA	457	G	N1-C2-N2	-8.70	108.37	116.20
2	AB	61	C	C3'-C2'-C1'	8.70	108.46	101.50
26	BB	340	A	N1-C2-N3	-8.70	124.95	129.30
26	BB	766	U	C6-N1-C2	-8.70	115.78	121.00
26	BB	2803	G	C6-C5-N7	8.70	135.62	130.40
29	BE	83	ARG	NE-CZ-NH2	8.70	124.65	120.30
1	AA	328	C	N1-C2-O2	8.70	124.12	118.90
1	AA	564	C	N1-C2-O2	8.70	124.12	118.90
26	BB	2380	C	C2-N3-C4	8.70	124.25	119.90
26	BB	1614	A	N7-C8-N9	8.70	118.15	113.80
1	AA	506	G	N9-C4-C5	8.70	108.88	105.40
1	AA	732	C	C2-N3-C4	8.70	124.25	119.90
1	AA	755	G	N3-C4-C5	-8.70	124.25	128.60
1	AA	1015	G	C5-N7-C8	-8.70	99.95	104.30
26	BB	1070	A	N1-C6-N6	-8.70	113.38	118.60
26	BB	2107	G	N3-C4-N9	8.70	131.22	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	320	A	O4'-C1'-N9	8.69	115.16	108.20
5	AE	29	PHE	CB-CG-CD1	-8.70	114.71	120.80
26	BB	2600	A	C8-N9-C4	-8.70	102.32	105.80
25	BA	68	C	N3-C4-N4	8.69	124.09	118.00
1	AA	1169	A	O4'-C1'-N9	8.69	115.16	108.20
26	BB	218	A	P-O3'-C3'	8.69	130.13	119.70
26	BB	1008	A	C4-C5-N7	-8.69	106.35	110.70
26	BB	2424	C	O4'-C1'-N1	8.69	115.15	108.20
1	AA	618	C	C4'-C3'-C2'	-8.69	93.91	102.60
26	BB	1916	A	N7-C8-N9	8.69	118.14	113.80
26	BB	2331	G	N9-C4-C5	8.69	108.88	105.40
1	AA	48	C	N3-C4-C5	-8.69	118.42	121.90
3	AC	45	G	N3-C4-C5	-8.69	124.25	128.60
1	AA	500	G	C5-C6-N1	-8.69	107.16	111.50
26	BB	911	A	C8-N9-C4	-8.69	102.32	105.80
26	BB	1808	A	C4-C5-C6	-8.69	112.66	117.00
26	BB	2322	A	C8-N9-C4	-8.69	102.33	105.80
1	AA	1015	G	N1-C6-O6	-8.69	114.69	119.90
26	BB	1482	G	C1'-O4'-C4'	-8.69	102.95	109.90
25	BA	96	G	C5-N7-C8	-8.69	99.96	104.30
26	BB	331	C	C6-N1-C2	-8.69	116.83	120.30
26	BB	977	G	N9-C4-C5	8.69	108.87	105.40
26	BB	1065	U	N1-C2-N3	8.69	120.11	114.90
26	BB	2000	C	C5-C6-N1	8.69	125.34	121.00
26	BB	2652	C	C3'-C2'-C1'	8.69	108.45	101.50
1	AA	262	A	C2-N3-C4	8.68	114.94	110.60
1	AA	1131	G	C6-C5-N7	8.68	135.61	130.40
26	BB	2762	C	O4'-C1'-N1	8.68	115.15	108.20
1	AA	345	C	N3-C4-N4	8.68	124.08	118.00
1	AA	938	A	O4'-C1'-N9	8.68	115.14	108.20
26	BB	809	G	C5-C6-O6	-8.68	123.39	128.60
1	AA	904	U	O4'-C1'-N1	8.68	115.14	108.20
4	AD	13	C	N3-C4-N4	8.68	124.08	118.00
26	BB	347	A	C5-C6-N6	-8.68	116.76	123.70
26	BB	720	U	C4-C5-C6	8.68	124.91	119.70
26	BB	855	G	N1-C2-N3	-8.68	118.69	123.90
26	BB	847	U	N3-C2-O2	-8.68	116.13	122.20
26	BB	1082	U	C1'-O4'-C4'	8.68	116.84	109.90
26	BB	1571	A	C8-N9-C4	-8.68	102.33	105.80
26	BB	1766	G	C8-N9-C4	-8.68	102.93	106.40
26	BB	2102	G	C5-C6-O6	-8.68	123.39	128.60
26	BB	2604	U	N3-C4-O4	-8.68	113.32	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	AU	24	ASP	CB-CG-OD2	-8.68	110.49	118.30
1	AA	505	G	C2-N3-C4	8.68	116.24	111.90
1	AA	1063	C	C2-N3-C4	8.68	124.24	119.90
1	AA	1079	G	C1'-O4'-C4'	8.68	116.84	109.90
26	BB	1414	C	C5-C6-N1	8.68	125.34	121.00
26	BB	1970	A	N7-C8-N9	-8.68	109.46	113.80
1	AA	1299	A	C5-C6-N1	8.68	122.04	117.70
1	AA	1319	A	O4'-C1'-N9	-8.68	101.26	108.20
26	BB	1398	C	C3'-C2'-C1'	8.68	108.44	101.50
26	BB	1438	U	N3-C4-O4	8.68	125.47	119.40
26	BB	1742	U	C3'-C2'-C1'	8.68	108.44	101.50
26	BB	2315	G	O4'-C1'-N9	8.68	115.14	108.20
26	BB	349	U	C5-C6-N1	-8.67	118.36	122.70
26	BB	975	A	C5-C6-N6	-8.67	116.76	123.70
26	BB	2772	C	C4-C5-C6	-8.67	113.06	117.40
1	AA	281	G	N7-C8-N9	8.67	117.44	113.10
1	AA	135	C	C2-N3-C4	8.67	124.23	119.90
26	BB	579	G	C2-N3-C4	-8.67	107.56	111.90
26	BB	775	G	N3-C4-C5	-8.67	124.26	128.60
26	BB	597	G	C6-C5-N7	8.67	135.60	130.40
26	BB	877	A	C5-N7-C8	-8.67	99.56	103.90
26	BB	1490	A	C5-C6-N6	-8.67	116.77	123.70
1	AA	713	G	N9-C4-C5	8.67	108.87	105.40
1	AA	770	C	N1-C2-O2	8.67	124.10	118.90
1	AA	1192	C	C5-C6-N1	8.67	125.33	121.00
2	AB	13	C	C6-N1-C2	8.67	123.77	120.30
2	AB	50	G	C8-N9-C4	-8.67	102.93	106.40
25	BA	4	C	C5-C6-N1	-8.67	116.67	121.00
26	BB	1333	G	N7-C8-N9	8.67	117.43	113.10
26	BB	1828	G	N7-C8-N9	8.67	117.43	113.10
26	BB	2192	U	C5-C4-O4	-8.67	120.70	125.90
30	BF	114	ARG	NE-CZ-NH2	-8.67	115.97	120.30
1	AA	582	C	C5-C6-N1	8.66	125.33	121.00
4	AD	59	A	N1-C6-N6	8.66	123.80	118.60
25	BA	90	C	N1-C2-O2	8.66	124.10	118.90
1	AA	1070	U	C5'-C4'-C3'	-8.66	102.14	116.00
26	BB	253	C	O4'-C1'-N1	8.66	115.13	108.20
26	BB	1385	A	N7-C8-N9	8.66	118.13	113.80
26	BB	1743	G	N3-C4-C5	-8.66	124.27	128.60
1	AA	1032	G	N9-C4-C5	8.66	108.86	105.40
1	AA	1093	A	N7-C8-N9	8.66	118.13	113.80
1	AA	21	G	N7-C8-N9	-8.66	108.77	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	72	A	C4-C5-C6	-8.66	112.67	117.00
26	BB	93	G	N3-C4-C5	-8.66	124.27	128.60
26	BB	650	C	N3-C2-O2	-8.66	115.84	121.90
26	BB	1762	A	N1-C6-N6	-8.66	113.40	118.60
26	BB	2074	U	C5'-C4'-O4'	8.66	119.49	109.10
26	BB	2345	G	N9-C4-C5	8.66	108.86	105.40
26	BB	2822	G	C6-N1-C2	-8.66	119.91	125.10
1	AA	388	G	C2-N3-C4	8.66	116.23	111.90
1	AA	1030	U	N3-C2-O2	-8.66	116.14	122.20
1	AA	1063	C	C5-C4-N4	-8.66	114.14	120.20
16	AP	2	ARG	NE-CZ-NH1	-8.66	115.97	120.30
31	BG	94	ARG	NE-CZ-NH1	8.66	124.63	120.30
26	BB	868	U	O4'-C1'-N1	8.66	115.12	108.20
26	BB	1377	G	C5-C6-N1	8.66	115.83	111.50
26	BB	2010	G	C5-C6-O6	-8.66	123.41	128.60
26	BB	2865	U	C5-C6-N1	-8.66	118.37	122.70
1	AA	247	G	C5'-C4'-O4'	8.65	119.48	109.10
1	AA	525	C	N1-C2-O2	8.65	124.09	118.90
26	BB	744	U	O4'-C1'-N1	8.65	115.12	108.20
26	BB	1429	G	C2-N3-C4	8.65	116.23	111.90
26	BB	1178	C	O4'-C1'-N1	8.65	115.12	108.20
26	BB	2601	C	N3-C4-C5	-8.65	118.44	121.90
1	AA	704	A	C4-C5-C6	-8.65	112.67	117.00
1	AA	1022	A	C3'-C2'-C1'	8.65	108.42	101.50
26	BB	858	G	C8-N9-C4	-8.65	102.94	106.40
26	BB	1282	U	N3-C2-O2	-8.65	116.14	122.20
26	BB	2248	C	C3'-C2'-C1'	8.65	108.42	101.50
1	AA	102	G	C6-N1-C2	-8.65	119.91	125.10
1	AA	422	C	N1-C2-O2	8.65	124.09	118.90
2	AB	38	A	N7-C8-N9	8.65	118.12	113.80
3	AC	28	U	C5'-C4'-O4'	8.65	119.48	109.10
26	BB	1235	G	C3'-C2'-C1'	8.65	108.42	101.50
26	BB	1242	U	O4'-C1'-N1	8.65	115.12	108.20
1	AA	1321	U	P-O3'-C3'	8.65	130.08	119.70
1	AA	1463	U	O4'-C1'-N1	8.65	115.12	108.20
26	BB	676	A	N1-C6-N6	-8.65	113.41	118.60
26	BB	2258	C	N3-C4-N4	8.65	124.05	118.00
25	BA	64	G	O4'-C1'-N9	8.64	115.12	108.20
26	BB	1815	A	O4'-C1'-N9	8.64	115.12	108.20
1	AA	1245	C	O4'-C1'-N1	8.64	115.11	108.20
26	BB	766	U	N3-C4-C5	8.64	119.79	114.60
26	BB	2074	U	C1'-O4'-C4'	-8.64	102.98	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	589	U	C1'-O4'-C4'	8.64	116.81	109.90
26	BB	1645	G	N3-C4-N9	8.64	131.19	126.00
26	BB	1898	U	C5-C4-O4	8.64	131.09	125.90
26	BB	1823	G	C8-N9-C4	-8.64	102.94	106.40
26	BB	2077	A	N3-C4-C5	-8.64	120.75	126.80
30	BF	158	PHE	CB-CG-CD1	-8.64	114.75	120.80
1	AA	318	G	C6-C5-N7	-8.64	125.22	130.40
1	AA	372	C	C4-C5-C6	8.64	121.72	117.40
1	AA	1258	G	N3-C4-C5	-8.64	124.28	128.60
26	BB	1186	G	N3-C4-C5	-8.64	124.28	128.60
26	BB	1227	G	N7-C8-N9	-8.64	108.78	113.10
26	BB	2017	U	C1'-O4'-C4'	-8.64	102.99	109.90
26	BB	2117	A	O4'-C1'-N9	8.64	115.11	108.20
26	BB	2750	A	N7-C8-N9	8.64	118.12	113.80
26	BB	2171	A	O4'-C1'-N9	8.64	115.11	108.20
26	BB	2643	G	N3-C4-N9	8.64	131.18	126.00
1	AA	1289	A	C5-C6-N1	8.63	122.02	117.70
6	AF	22	PHE	CB-CG-CD1	-8.63	114.76	120.80
19	AS	31	ARG	NE-CZ-NH2	-8.63	115.98	120.30
26	BB	630	G	C5-C6-O6	-8.63	123.42	128.60
26	BB	1278	C	O4'-C1'-N1	8.63	115.11	108.20
26	BB	1353	A	C2-N3-C4	8.63	114.92	110.60
26	BB	1942	C	C2-N3-C4	8.63	124.22	119.90
1	AA	770	C	C6-N1-C2	-8.63	116.85	120.30
1	AA	1011	C	O4'-C1'-N1	8.63	115.11	108.20
1	AA	1266	G	N9-C4-C5	-8.63	101.95	105.40
1	AA	608	A	C5-C6-N1	8.63	122.02	117.70
25	BA	81	G	C5-C6-N1	8.63	115.82	111.50
26	BB	403	U	C5-C6-N1	8.63	127.02	122.70
26	BB	625	G	N3-C2-N2	8.63	125.94	119.90
26	BB	1531	C	N3-C4-C5	-8.63	118.45	121.90
28	BD	62	ARG	NE-CZ-NH1	8.63	124.62	120.30
26	BB	2579	C	O4'-C1'-N1	8.63	115.10	108.20
26	BB	2727	A	C6-C5-N7	-8.63	126.26	132.30
1	AA	849	G	C4-C5-N7	-8.63	107.35	110.80
1	AA	1109	C	N1-C2-N3	-8.63	113.16	119.20
43	BS	54	ARG	NE-CZ-NH2	-8.63	115.98	120.30
26	BB	629	G	N1-C6-O6	-8.63	114.72	119.90
26	BB	1897	G	C6-N1-C2	-8.63	119.92	125.10
1	AA	479	U	N1-C2-N3	8.63	120.08	114.90
1	AA	555	U	N3-C2-O2	-8.63	116.16	122.20
1	AA	924	C	C2-N3-C4	8.62	124.21	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	748	G	C4-C5-C6	8.62	123.97	118.80
1	AA	254	G	C5-C6-O6	-8.62	123.43	128.60
4	AD	58	A	C8-N9-C4	-8.62	102.35	105.80
26	BB	543	G	C8-N9-C4	-8.62	102.95	106.40
26	BB	1812	U	N3-C4-C5	-8.62	109.43	114.60
26	BB	2024	G	C2-N3-C4	8.62	116.21	111.90
26	BB	2878	U	C2-N3-C4	-8.62	121.83	127.00
1	AA	324	G	N3-C4-C5	-8.62	124.29	128.60
1	AA	531	U	C6-N1-C2	-8.62	115.83	121.00
1	AA	1158	C	N1-C2-O2	8.62	124.07	118.90
26	BB	543	G	N1-C2-N2	8.62	123.96	116.20
26	BB	1469	A	N1-C6-N6	-8.62	113.43	118.60
26	BB	1602	U	C5-C4-O4	-8.62	120.73	125.90
30	BF	200	LEU	CB-CG-CD1	8.62	125.65	111.00
26	BB	110	G	O4'-C1'-N9	8.62	115.09	108.20
26	BB	341	C	C3'-C2'-C1'	8.62	108.39	101.50
26	BB	749	A	N7-C8-N9	8.62	118.11	113.80
26	BB	2735	G	C5-C6-N1	8.62	115.81	111.50
26	BB	853	C	C5-C4-N4	8.61	126.23	120.20
26	BB	2752	C	O4'-C1'-N1	8.61	115.09	108.20
26	BB	920	A	N9-C1'-C2'	-8.61	102.53	112.00
26	BB	2066	C	N3-C2-O2	-8.61	115.87	121.90
1	AA	776	G	C8-N9-C4	-8.61	102.96	106.40
6	AF	168	ARG	NE-CZ-NH1	8.61	124.61	120.30
26	BB	70	G	N3-C4-C5	-8.61	124.29	128.60
26	BB	953	G	C6-C5-N7	-8.61	125.23	130.40
26	BB	989	G	C4-C5-C6	8.61	123.97	118.80
26	BB	1473	G	C4-C5-C6	8.61	123.97	118.80
26	BB	2873	A	O5'-P-OP2	-8.61	97.95	105.70
26	BB	2892	G	C5-C6-N1	8.61	115.81	111.50
1	AA	608	A	C6-C5-N7	8.61	138.33	132.30
26	BB	986	C	C4-C5-C6	-8.61	113.09	117.40
26	BB	1935	G	N7-C8-N9	8.61	117.41	113.10
1	AA	758	C	P-O3'-C3'	8.61	130.03	119.70
26	BB	470	A	N9-C4-C5	8.61	109.24	105.80
26	BB	997	G	N1-C2-N3	-8.61	118.73	123.90
26	BB	1434	A	C8-N9-C4	-8.61	102.36	105.80
26	BB	2551	C	C4'-C3'-C2'	-8.61	93.99	102.60
26	BB	2889	C	O4'-C1'-N1	8.61	115.09	108.20
1	AA	359	G	C3'-C2'-C1'	8.61	108.39	101.50
25	BA	89	U	N1-C2-O2	8.61	128.82	122.80
26	BB	1211	C	O4'-C1'-N1	8.61	115.09	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1060	U	N3-C2-O2	-8.61	116.18	122.20
1	AA	1319	A	N9-C4-C5	-8.61	102.36	105.80
26	BB	1606	C	C1'-O4'-C4'	-8.61	103.02	109.90
26	BB	1759	A	C6-C5-N7	8.61	138.32	132.30
26	BB	2709	G	O4'-C1'-N9	8.61	115.08	108.20
26	BB	2756	U	C2'-C3'-O3'	8.61	128.43	109.50
26	BB	632	A	C5-N7-C8	-8.60	99.60	103.90
26	BB	1016	G	O4'-C1'-N9	8.60	115.08	108.20
26	BB	1219	U	C5'-C4'-O4'	8.60	119.42	109.10
26	BB	2781	A	C5-N7-C8	-8.60	99.60	103.90
1	AA	292	G	C6-N1-C2	-8.60	119.94	125.10
26	BB	596	U	O4'-C1'-N1	8.60	115.08	108.20
26	BB	1181	U	C5-C6-N1	-8.60	118.40	122.70
26	BB	1327	A	N1-C6-N6	-8.60	113.44	118.60
26	BB	1951	U	N1-C2-N3	8.60	120.06	114.90
26	BB	2532	G	C5'-C4'-O4'	8.60	119.42	109.10
56	B5	19	ARG	NE-CZ-NH2	8.60	124.60	120.30
1	AA	255	G	N1-C2-N2	8.60	123.94	116.20
1	AA	1012	A	C6-C5-N7	8.60	138.32	132.30
4	AD	46	G	O4'-C1'-N9	8.60	115.08	108.20
26	BB	1887	C	O4'-C1'-N1	8.60	115.08	108.20
26	BB	1890	A	O4'-C1'-N9	8.60	115.08	108.20
26	BB	2708	G	C4-C5-N7	-8.60	107.36	110.80
1	AA	526	C	C4-C5-C6	8.60	121.70	117.40
1	AA	701	U	N3-C2-O2	-8.60	116.18	122.20
2	AB	38	A	C5'-C4'-O4'	8.60	119.42	109.10
26	BB	806	C	C5-C6-N1	8.60	125.30	121.00
26	BB	987	C	N3-C2-O2	-8.60	115.88	121.90
26	BB	1507	C	N1-C2-O2	8.60	124.06	118.90
26	BB	1670	C	C6-N1-C2	-8.60	116.86	120.30
26	BB	2549	G	C5-C6-N1	8.60	115.80	111.50
26	BB	2839	G	C5'-C4'-O4'	8.60	119.41	109.10
50	BZ	27	ARG	NE-CZ-NH1	8.60	124.60	120.30
1	AA	1359	C	O4'-C1'-N1	8.59	115.07	108.20
3	AC	57	C	N3-C4-N4	8.59	124.02	118.00
26	BB	436	C	O4'-C1'-N1	8.59	115.07	108.20
26	BB	649	G	N1-C2-N2	8.59	123.93	116.20
26	BB	2485	G	C8-N9-C4	-8.59	102.96	106.40
1	AA	507	C	C2-N3-C4	8.59	124.19	119.90
26	BB	2117	A	C5-C6-N6	-8.59	116.83	123.70
1	AA	963	G	C4-C5-N7	-8.59	107.36	110.80
26	BB	1673	G	N9-C4-C5	8.59	108.83	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2043	C	C4'-C3'-C2'	-8.59	94.01	102.60
26	BB	1343	G	C5-C6-N1	8.59	115.79	111.50
26	BB	1409	U	N1-C1'-C2'	-8.59	102.55	112.00
1	AA	578	C	O4'-C1'-N1	8.59	115.07	108.20
1	AA	1029	U	C2-N3-C4	-8.59	121.85	127.00
1	AA	1105	A	C4'-C3'-C2'	-8.59	94.01	102.60
26	BB	583	G	N3-C4-C5	-8.59	124.31	128.60
3	AC	26	U	C5-C4-O4	8.59	131.05	125.90
1	AA	189	A	C5-N7-C8	-8.58	99.61	103.90
1	AA	455	G	C6-N1-C2	-8.58	119.95	125.10
26	BB	265	A	C5'-C4'-O4'	8.58	119.40	109.10
1	AA	508	U	C4-C5-C6	8.58	124.85	119.70
1	AA	686	U	O4'-C1'-N1	8.58	115.07	108.20
1	AA	734	G	N9-C4-C5	8.58	108.83	105.40
1	AA	1459	G	N9-C4-C5	8.58	108.83	105.40
26	BB	231	A	N1-C6-N6	-8.58	113.45	118.60
26	BB	1151	A	C4'-C3'-C2'	-8.58	94.02	102.60
26	BB	1588	G	C4'-C3'-C2'	-8.58	94.02	102.60
1	AA	238	A	N3-C4-C5	-8.58	120.79	126.80
1	AA	1021	A	N1-C2-N3	8.58	133.59	129.30
1	AA	1138	G	N3-C2-N2	8.58	125.91	119.90
3	AC	39	U	N1-C2-O2	8.58	128.81	122.80
26	BB	2262	U	O4'-C1'-N1	8.58	115.06	108.20
26	BB	332	A	O4'-C1'-N9	8.58	115.06	108.20
26	BB	1021	A	C8-N9-C4	-8.58	102.37	105.80
26	BB	2415	G	N1-C2-N3	-8.58	118.75	123.90
43	BS	91	ARG	NH1-CZ-NH2	8.58	128.84	119.40
1	AA	145	G	N3-C4-C5	-8.58	124.31	128.60
1	AA	273	U	O4'-C1'-N1	8.58	115.06	108.20
26	BB	1242	U	C5-C4-O4	8.58	131.05	125.90
26	BB	2379	G	C6-N1-C2	-8.58	119.95	125.10
26	BB	1704	C	N1-C2-O2	8.58	124.05	118.90
1	AA	1267	C	C4-C5-C6	-8.57	113.11	117.40
1	AA	645	G	N9-C4-C5	-8.57	101.97	105.40
1	AA	1068	G	C2-N3-C4	8.57	116.19	111.90
1	AA	1153	G	C2-N3-C4	8.57	116.19	111.90
4	AD	42	C	C2-N3-C4	8.57	124.19	119.90
26	BB	413	C	N3-C2-O2	-8.57	115.90	121.90
26	BB	728	G	O4'-C1'-N9	8.57	115.06	108.20
26	BB	1013	C	P-O3'-C3'	8.57	129.99	119.70
26	BB	2742	G	N7-C8-N9	8.57	117.39	113.10
26	BB	1092	C	O4'-C1'-N1	8.57	115.06	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1866	A	N1-C2-N3	-8.57	125.01	129.30
26	BB	2029	G	N1-C6-O6	8.57	125.04	119.90
26	BB	2317	A	C6-N1-C2	8.57	123.75	118.60
1	AA	810	C	N1-C2-O2	8.57	124.04	118.90
1	AA	1524	C	O4'-C4'-C3'	8.57	112.96	106.10
4	AD	29	C	C5-C6-N1	8.57	125.29	121.00
26	BB	1410	G	O4'-C1'-N9	8.57	115.06	108.20
26	BB	2344	U	N3-C2-O2	-8.57	116.20	122.20
26	BB	2379	G	C8-N9-C4	-8.57	102.97	106.40
26	BB	2891	U	O4'-C1'-N1	8.57	115.06	108.20
1	AA	182	A	C3'-C2'-C1'	-8.57	94.64	101.50
1	AA	886	G	C2-N3-C4	8.57	116.19	111.90
1	AA	1200	C	O4'-C1'-N1	8.57	115.06	108.20
1	AA	1514	G	N3-C4-N9	8.57	131.14	126.00
26	BB	130	C	N3-C4-C5	-8.57	118.47	121.90
26	BB	2781	A	P-O3'-C3'	8.57	129.99	119.70
56	B5	35	ARG	NE-CZ-NH2	8.57	124.59	120.30
1	AA	512	U	C1'-O4'-C4'	8.57	116.75	109.90
6	AF	183	TYR	CB-CG-CD1	-8.57	115.86	121.00
25	BA	26	C	O4'-C1'-N1	8.57	115.05	108.20
26	BB	940	G	N7-C8-N9	8.57	117.38	113.10
26	BB	1702	G	C8-N9-C4	-8.57	102.97	106.40
26	BB	2477	U	N3-C2-O2	-8.57	116.20	122.20
26	BB	2284	A	C5-C6-N1	-8.57	113.42	117.70
26	BB	1062	G	C6-N1-C2	-8.56	119.96	125.10
26	BB	1951	U	C2-N3-C4	-8.56	121.86	127.00
26	BB	2248	C	O4'-C1'-N1	8.56	115.05	108.20
26	BB	2384	U	N1-C2-N3	8.56	120.04	114.90
25	BA	108	A	C8-N9-C4	-8.56	102.38	105.80
26	BB	826	U	C5-C4-O4	-8.56	120.76	125.90
36	BL	99	ARG	NE-CZ-NH1	-8.56	116.02	120.30
1	AA	556	C	P-O3'-C3'	8.56	129.97	119.70
1	AA	581	G	C5-C6-O6	8.56	133.74	128.60
1	AA	846	G	N7-C8-N9	8.56	117.38	113.10
26	BB	59	U	C5-C6-N1	-8.56	118.42	122.70
26	BB	2487	G	C2-N3-C4	8.56	116.18	111.90
26	BB	1811	G	N3-C4-N9	8.56	131.14	126.00
26	BB	2535	G	N7-C8-N9	8.56	117.38	113.10
48	BX	82	TYR	CB-CG-CD2	-8.56	115.86	121.00
1	AA	1441	A	C4'-C3'-C2'	-8.56	94.04	102.60
26	BB	668	A	C6-C5-N7	8.56	138.29	132.30
26	BB	2375	G	O4'-C1'-N9	8.56	115.05	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1178	G	N3-C4-N9	-8.56	120.87	126.00
1	AA	1267	C	N1-C2-O2	8.56	124.03	118.90
2	AB	1	A	C4'-C3'-C2'	-8.56	94.04	102.60
4	AD	74	A	C3'-C2'-C1'	8.56	108.35	101.50
26	BB	792	A	N1-C6-N6	-8.56	113.47	118.60
26	BB	865	C	C4-C5-C6	8.56	121.68	117.40
26	BB	1218	G	C8-N9-C4	-8.56	102.98	106.40
26	BB	1658	C	O4'-C1'-N1	8.56	115.05	108.20
26	BB	2223	G	C1'-O4'-C4'	-8.56	103.05	109.90
26	BB	2341	G	C8-N9-C4	8.56	109.82	106.40
25	BA	35	C	N1-C2-O2	8.55	124.03	118.90
26	BB	2182	U	N3-C2-O2	-8.56	116.21	122.20
26	BB	2852	G	C2-N3-C4	8.55	116.18	111.90
1	AA	292	G	C5-N7-C8	-8.55	100.02	104.30
1	AA	699	C	C2-N3-C4	8.55	124.18	119.90
26	BB	708	G	C5-C6-N1	-8.55	107.22	111.50
26	BB	1094	U	P-O3'-C3'	8.55	129.97	119.70
26	BB	1136	G	N3-C4-C5	-8.55	124.32	128.60
26	BB	2801	G	C4-C5-N7	-8.55	107.38	110.80
27	BC	71	ARG	NE-CZ-NH2	-8.55	116.02	120.30
34	BJ	152	ARG	NE-CZ-NH2	-8.55	116.02	120.30
1	AA	1041	G	C2-N3-C4	8.55	116.17	111.90
26	BB	325	G	O4'-C1'-N9	8.55	115.04	108.20
26	BB	770	G	N9-C4-C5	8.55	108.82	105.40
1	AA	1486	G	N3-C4-N9	8.55	131.13	126.00
3	AC	29	G	N1-C6-O6	-8.55	114.77	119.90
26	BB	868	U	C6-N1-C2	-8.55	115.87	121.00
26	BB	361	G	O4'-C1'-N9	8.55	115.04	108.20
26	BB	412	A	C4-C5-C6	-8.55	112.72	117.00
26	BB	847	U	C5-C4-O4	-8.55	120.77	125.90
26	BB	922	C	C2-N3-C4	8.55	124.17	119.90
1	AA	1026	G	N1-C2-N3	-8.55	118.77	123.90
1	AA	1388	C	C5-C6-N1	8.55	125.27	121.00
26	BB	637	A	C2-N3-C4	8.55	114.87	110.60
1	AA	1435	G	C6-C5-N7	-8.55	125.27	130.40
3	AC	41	A	N9-C4-C5	8.55	109.22	105.80
26	BB	266	G	C4'-C3'-C2'	-8.55	94.05	102.60
26	BB	666	A	N1-C2-N3	-8.55	125.03	129.30
26	BB	799	G	C8-N9-C4	-8.55	102.98	106.40
26	BB	1212	G	C3'-C2'-C1'	-8.55	94.66	101.50
26	BB	1613	G	N9-C4-C5	8.55	108.82	105.40
26	BB	2082	A	C5-C6-N1	8.55	121.97	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2586	U	O4'-C1'-N1	8.55	115.04	108.20
33	BI	29	PHE	CB-CG-CD2	-8.55	114.82	120.80
26	BB	1126	A	C3'-C2'-C1'	8.54	108.34	101.50
26	BB	1223	G	C8-N9-C4	-8.54	102.98	106.40
26	BB	2225	A	O4'-C1'-N9	8.54	115.04	108.20
1	AA	1003	G	C6-N1-C2	-8.54	119.97	125.10
1	AA	1206	G	N3-C2-N2	8.54	125.88	119.90
1	AA	1517	G	C4-C5-N7	-8.54	107.38	110.80
26	BB	1655	A	C8-N9-C4	8.54	109.22	105.80
26	BB	1990	C	C3'-C2'-C1'	8.54	108.33	101.50
26	BB	2872	A	N9-C4-C5	8.54	109.22	105.80
1	AA	139	A	N1-C2-N3	8.54	133.57	129.30
1	AA	791	G	C6-C5-N7	8.54	135.52	130.40
1	AA	1286	U	C6-N1-C2	-8.54	115.88	121.00
26	BB	2439	A	O4'-C1'-N9	8.54	115.03	108.20
1	AA	835	U	C2-N3-C4	8.54	132.12	127.00
1	AA	1369	C	C4-C5-C6	-8.54	113.13	117.40
3	AC	47	C	N1-C2-O2	8.54	124.02	118.90
26	BB	576	U	P-O3'-C3'	8.54	129.95	119.70
26	BB	594	U	O4'-C1'-N1	8.54	115.03	108.20
26	BB	1429	G	C5-C6-O6	-8.54	123.48	128.60
26	BB	1813	G	N9-C4-C5	8.54	108.81	105.40
26	BB	2252	G	C3'-C2'-C1'	8.54	108.33	101.50
26	BB	2369	A	C4-C5-N7	-8.54	106.43	110.70
1	AA	1396	A	N1-C6-N6	-8.54	113.48	118.60
26	BB	229	C	N3-C4-N4	8.53	123.97	118.00
26	BB	990	A	C5-C6-N6	-8.53	116.87	123.70
26	BB	1167	C	C2-N3-C4	8.54	124.17	119.90
26	BB	2381	A	N1-C2-N3	-8.54	125.03	129.30
26	BB	1947	C	C4'-C3'-C2'	-8.53	94.07	102.60
1	AA	130	A	N7-C8-N9	8.53	118.07	113.80
1	AA	177	G	O4'-C1'-N9	8.53	115.03	108.20
1	AA	649	A	C3'-C2'-C1'	-8.53	94.67	101.50
1	AA	1455	G	O4'-C1'-N9	8.53	115.03	108.20
2	AB	52	A	C5-N7-C8	-8.53	99.63	103.90
2	AB	65	C	C1'-O4'-C4'	-8.53	103.07	109.90
26	BB	1398	C	C4'-C3'-C2'	-8.53	94.07	102.60
26	BB	2603	G	O4'-C1'-N9	8.53	115.03	108.20
26	BB	582	A	O4'-C1'-N9	8.53	115.02	108.20
1	AA	545	C	C3'-C2'-C1'	8.53	108.32	101.50
1	AA	993	G	N3-C4-C5	-8.53	124.34	128.60
26	BB	68	G	C4-C5-N7	8.53	114.21	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	163	C	N3-C4-N4	8.53	123.97	118.00
26	BB	696	G	N1-C6-O6	-8.53	114.78	119.90
26	BB	2240	U	O4'-C1'-N1	8.53	115.02	108.20
26	BB	2255	G	C5-C6-O6	-8.53	123.48	128.60
26	BB	2792	A	C8-N9-C4	8.53	109.21	105.80
1	AA	610	U	C5-C4-O4	-8.53	120.78	125.90
1	AA	1249	C	N3-C4-C5	8.53	125.31	121.90
1	AA	684	U	N3-C4-O4	8.52	125.37	119.40
2	AB	24	G	C2-N3-C4	8.52	116.16	111.90
26	BB	1255	U	C1'-O4'-C4'	-8.52	103.08	109.90
1	AA	1304	G	N1-C6-O6	-8.52	114.79	119.90
26	BB	2219	U	N1-C2-N3	8.52	120.01	114.90
26	BB	2369	A	C8-N9-C4	-8.52	102.39	105.80
26	BB	2434	A	C8-N9-C4	-8.52	102.39	105.80
52	B1	15	ARG	NE-CZ-NH1	-8.52	116.04	120.30
1	AA	1391	U	O4'-C1'-N1	8.52	115.02	108.20
1	AA	239	U	O4'-C1'-N1	8.52	115.02	108.20
1	AA	713	G	C4-C5-N7	-8.52	107.39	110.80
1	AA	1271	A	C5-N7-C8	8.52	108.16	103.90
1	AA	1433	A	C5-N7-C8	-8.52	99.64	103.90
1	AA	1513	A	O4'-C1'-N9	8.52	115.02	108.20
26	BB	672	C	N3-C2-O2	-8.52	115.94	121.90
26	BB	1029	A	O4'-C4'-C3'	8.52	112.92	106.10
26	BB	1812	U	C4-C5-C6	8.52	124.81	119.70
26	BB	2269	G	C8-N9-C4	-8.52	102.99	106.40
26	BB	230	G	C5'-C4'-O4'	8.52	119.32	109.10
26	BB	314	C	N3-C4-N4	8.52	123.96	118.00
26	BB	520	G	C5-N7-C8	-8.52	100.04	104.30
26	BB	937	C	C6-N1-C2	-8.52	116.89	120.30
26	BB	1024	G	O4'-C1'-N9	8.52	115.01	108.20
26	BB	1296	G	C8-N9-C4	-8.52	102.99	106.40
26	BB	2184	A	C6-N1-C2	-8.52	113.49	118.60
26	BB	2631	G	N3-C4-C5	-8.52	124.34	128.60
26	BB	2684	U	O4'-C1'-N1	8.52	115.01	108.20
26	BB	320	A	C3'-C2'-C1'	8.51	108.31	101.50
26	BB	1844	C	C6-N1-C2	-8.51	116.89	120.30
1	AA	1078	U	N3-C2-O2	-8.51	116.24	122.20
26	BB	523	C	O4'-C1'-N1	8.51	115.01	108.20
26	BB	1828	G	N3-C4-C5	-8.51	124.34	128.60
26	BB	2455	G	C8-N9-C4	-8.51	103.00	106.40
26	BB	2320	U	N3-C2-O2	-8.51	116.24	122.20
26	BB	2536	G	N7-C8-N9	8.51	117.36	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2729	G	N3-C2-N2	8.51	125.86	119.90
31	BG	166	ARG	NE-CZ-NH1	8.51	124.56	120.30
1	AA	301	G	O4'-C1'-N9	8.51	115.01	108.20
1	AA	776	G	N3-C2-N2	8.51	125.86	119.90
1	AA	925	G	C5-N7-C8	8.51	108.56	104.30
26	BB	2409	G	N7-C8-N9	8.51	117.36	113.10
1	AA	1246	A	C4-C5-N7	-8.51	106.45	110.70
26	BB	67	U	C5-C6-N1	8.51	126.95	122.70
26	BB	296	U	N3-C2-O2	-8.51	116.24	122.20
1	AA	574	A	N1-C6-N6	8.51	123.70	118.60
1	AA	690	G	C1'-O4'-C4'	8.51	116.71	109.90
4	AD	67	C	N3-C4-C5	-8.51	118.50	121.90
26	BB	1818	U	C5'-C4'-O4'	8.51	119.31	109.10
1	AA	1530	G	N3-C4-C5	-8.51	124.35	128.60
26	BB	205	G	N9-C4-C5	8.51	108.80	105.40
26	BB	254	G	C6-C5-N7	-8.51	125.30	130.40
26	BB	630	G	N9-C4-C5	8.51	108.80	105.40
26	BB	727	A	C6-N1-C2	8.51	123.70	118.60
26	BB	856	G	C5-C6-O6	-8.51	123.50	128.60
26	BB	1132	U	N3-C4-C5	-8.51	109.50	114.60
26	BB	1671	U	N3-C4-C5	-8.51	109.50	114.60
26	BB	858	G	C6-C5-N7	-8.51	125.30	130.40
26	BB	1258	U	N3-C2-O2	-8.51	116.25	122.20
26	BB	1721	G	N3-C4-N9	8.51	131.10	126.00
26	BB	1843	C	O4'-C1'-N1	8.51	115.00	108.20
26	BB	2109	U	N3-C4-C5	-8.51	109.50	114.60
26	BB	2816	G	N3-C4-C5	-8.51	124.35	128.60
26	BB	604	G	C4-C5-C6	8.50	123.90	118.80
26	BB	731	C	N3-C2-O2	-8.50	115.95	121.90
26	BB	758	C	N1-C2-O2	8.50	124.00	118.90
1	AA	1003	G	C5-C6-N1	8.50	115.75	111.50
1	AA	1404	C	C6-N1-C2	8.50	123.70	120.30
26	BB	107	G	N9-C4-C5	-8.50	102.00	105.40
26	BB	188	G	C5-C6-O6	-8.50	123.50	128.60
26	BB	313	G	N3-C4-N9	8.50	131.10	126.00
26	BB	673	C	O4'-C1'-N1	8.50	115.00	108.20
26	BB	861	A	N1-C6-N6	-8.50	113.50	118.60
26	BB	1404	C	C3'-C2'-C1'	8.50	108.30	101.50
1	AA	322	C	C2-N3-C4	8.50	124.15	119.90
1	AA	838	G	C4-C5-N7	-8.50	107.40	110.80
1	AA	859	G	C5'-C4'-O4'	8.50	119.30	109.10
2	AB	74	C	O4'-C1'-N1	8.50	115.00	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	57	A	P-O3'-C3'	8.50	129.90	119.70
26	BB	290	U	N1-C2-O2	-8.50	116.85	122.80
26	BB	551	G	N9-C4-C5	8.50	108.80	105.40
26	BB	869	G	N3-C2-N2	-8.50	113.95	119.90
26	BB	1529	G	N9-C4-C5	8.50	108.80	105.40
26	BB	2698	U	C5-C6-N1	-8.50	118.45	122.70
26	BB	2812	G	N9-C4-C5	8.50	108.80	105.40
1	AA	1539	C	O4'-C4'-C3'	8.50	112.90	106.10
26	BB	960	A	C5'-C4'-O4'	8.50	119.30	109.10
26	BB	2025	C	C4-C5-C6	-8.50	113.15	117.40
1	AA	1376	U	C1'-O4'-C4'	-8.50	103.10	109.90
2	AB	47	U	P-O3'-C3'	8.50	129.90	119.70
26	BB	2063	C	N3-C2-O2	-8.50	115.95	121.90
26	BB	2573	C	O4'-C1'-N1	8.50	115.00	108.20
1	AA	1213	A	C6-N1-C2	8.49	123.70	118.60
26	BB	86	G	N3-C4-C5	-8.49	124.35	128.60
26	BB	844	A	N3-C4-N9	8.49	134.19	127.40
26	BB	1479	G	C4-C5-N7	8.49	114.20	110.80
4	AD	50	G	C4-C5-N7	8.49	114.20	110.80
26	BB	1041	G	C6-N1-C2	-8.49	120.00	125.10
26	BB	2270	A	O4'-C4'-C3'	8.49	112.89	106.10
26	BB	2379	G	C2-N3-C4	8.49	116.15	111.90
26	BB	2751	G	O4'-C1'-N9	8.49	115.00	108.20
1	AA	330	C	C3'-C2'-C1'	8.49	108.29	101.50
26	BB	1310	G	N3-C4-C5	-8.49	124.35	128.60
26	BB	2794	C	O4'-C1'-N1	8.49	114.99	108.20
12	AL	118	ARG	NE-CZ-NH2	-8.49	116.06	120.30
26	BB	986	C	C5-C4-N4	-8.49	114.26	120.20
26	BB	2115	G	N7-C8-N9	8.49	117.34	113.10
3	AC	52	U	C1'-O4'-C4'	-8.49	103.11	109.90
26	BB	111	A	N7-C8-N9	8.49	118.04	113.80
26	BB	838	C	C5-C6-N1	8.49	125.24	121.00
1	AA	1278	G	C6-C5-N7	-8.49	125.31	130.40
26	BB	1135	C	N3-C4-C5	8.49	125.30	121.90
26	BB	1196	C	N3-C4-C5	-8.49	118.50	121.90
26	BB	2322	A	C5-N7-C8	-8.49	99.66	103.90
26	BB	2570	G	P-O3'-C3'	8.49	129.88	119.70
1	AA	570	G	N3-C4-N9	8.48	131.09	126.00
1	AA	214	C	C5'-C4'-O4'	8.48	119.28	109.10
1	AA	695	A	C5-N7-C8	8.48	108.14	103.90
26	BB	1413	A	C5-N7-C8	-8.48	99.66	103.90
26	BB	2473	U	P-O3'-C3'	8.48	129.88	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1316	G	P-O3'-C3'	8.48	129.88	119.70
26	BB	248	G	C4-C5-N7	8.48	114.19	110.80
26	BB	400	G	P-O3'-C3'	8.48	129.88	119.70
26	BB	425	G	C8-N9-C4	-8.48	103.01	106.40
26	BB	1655	A	O4'-C1'-N9	8.48	114.99	108.20
26	BB	1989	G	C5-C6-O6	8.48	133.69	128.60
26	BB	2582	G	N3-C4-C5	-8.48	124.36	128.60
42	BR	79	VAL	CA-CB-CG2	8.48	123.62	110.90
1	AA	1250	A	C2-N3-C4	8.48	114.84	110.60
26	BB	2324	U	O4'-C1'-N1	8.48	114.99	108.20
1	AA	333	U	C6-N1-C2	-8.48	115.91	121.00
1	AA	421	U	N1-C2-N3	8.48	119.99	114.90
1	AA	636	U	O4'-C1'-N1	8.48	114.98	108.20
26	BB	163	C	O4'-C1'-N1	8.48	114.98	108.20
26	BB	430	A	N1-C2-N3	-8.48	125.06	129.30
26	BB	1810	A	C2-N3-C4	8.48	114.84	110.60
1	AA	374	A	C5-N7-C8	-8.48	99.66	103.90
3	AC	23	C	C5-C4-N4	-8.48	114.26	120.20
26	BB	132	G	N7-C8-N9	8.48	117.34	113.10
26	BB	769	U	N3-C4-O4	-8.48	113.47	119.40
26	BB	2232	C	N3-C4-C5	-8.48	118.51	121.90
26	BB	2307	G	N3-C4-C5	-8.48	124.36	128.60
1	AA	65	A	C4-C5-N7	8.48	114.94	110.70
26	BB	2203	U	C5-C6-N1	-8.48	118.46	122.70
26	BB	2775	G	N7-C8-N9	8.48	117.34	113.10
1	AA	246	A	N9-C4-C5	8.47	109.19	105.80
1	AA	353	A	C5'-C4'-O4'	8.47	119.27	109.10
1	AA	887	G	C5-C6-O6	8.47	133.69	128.60
26	BB	2138	G	N1-C2-N2	8.47	123.83	116.20
1	AA	642	A	C2-N3-C4	8.47	114.84	110.60
26	BB	27	G	N9-C4-C5	8.47	108.79	105.40
26	BB	1851	U	C4-C5-C6	8.47	124.78	119.70
26	BB	1972	G	N9-C4-C5	-8.47	102.01	105.40
26	BB	2066	C	C3'-C2'-C1'	-8.47	94.72	101.50
1	AA	557	G	C6-N1-C2	-8.47	120.02	125.10
4	AD	52	C	C6-N1-C2	-8.47	116.91	120.30
26	BB	345	A	N9-C1'-C2'	-8.47	102.68	112.00
4	AD	54	G	N1-C2-N3	-8.47	118.82	123.90
26	BB	474	G	C5-C6-O6	-8.47	123.52	128.60
26	BB	994	C	N1-C2-O2	8.47	123.98	118.90
1	AA	98	A	C5-C6-N1	8.47	121.93	117.70
1	AA	128	G	P-O3'-C3'	8.47	129.86	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	819	A	O4'-C1'-N9	8.47	114.97	108.20
26	BB	1007	C	N3-C4-N4	8.47	123.93	118.00
26	BB	1659	G	C5-N7-C8	-8.47	100.06	104.30
26	BB	1220	G	N3-C4-C5	-8.47	124.37	128.60
26	BB	1808	A	C2-N3-C4	-8.47	106.37	110.60
26	BB	2254	C	C6-N1-C2	8.47	123.69	120.30
26	BB	120	U	C6-N1-C2	-8.47	115.92	121.00
26	BB	230	G	C2-N3-C4	8.47	116.13	111.90
26	BB	2613	U	C2-N3-C4	-8.47	121.92	127.00
26	BB	1091	G	C5-C6-O6	-8.46	123.52	128.60
26	BB	1313	U	C2-N3-C4	-8.46	121.92	127.00
1	AA	1340	A	C6-N1-C2	8.46	123.68	118.60
1	AA	171	A	C4-C5-N7	8.46	114.93	110.70
5	AE	90	PHE	CB-CG-CD1	-8.46	114.88	120.80
26	BB	77	G	N7-C8-N9	8.46	117.33	113.10
26	BB	495	G	C4-C5-C6	8.46	123.88	118.80
26	BB	859	G	C4-C5-C6	8.46	123.88	118.80
1	AA	1279	G	O4'-C4'-C3'	8.46	112.87	106.10
1	AA	1294	G	C6-N1-C2	-8.46	120.02	125.10
26	BB	163	C	C1'-O4'-C4'	8.46	116.67	109.90
26	BB	2087	G	C5-C6-N1	8.46	115.73	111.50
26	BB	2146	C	C2-N3-C4	8.46	124.13	119.90
1	AA	700	G	C5-C6-N1	8.46	115.73	111.50
1	AA	741	G	C6-C5-N7	-8.46	125.33	130.40
26	BB	217	A	P-O3'-C3'	8.46	129.85	119.70
26	BB	354	A	N1-C6-N6	-8.46	113.53	118.60
26	BB	1564	C	C5-C6-N1	8.46	125.23	121.00
26	BB	2574	G	C4-C5-N7	-8.46	107.42	110.80
29	BE	128	ARG	NH1-CZ-NH2	-8.46	110.10	119.40
1	AA	100	G	N3-C4-C5	-8.46	124.37	128.60
1	AA	259	G	O4'-C1'-N9	8.46	114.96	108.20
1	AA	1008	U	C5-C4-O4	-8.46	120.83	125.90
26	BB	2701	U	N3-C4-O4	8.46	125.32	119.40
1	AA	466	A	C6-N1-C2	-8.45	113.53	118.60
26	BB	909	A	C2-N3-C4	8.45	114.83	110.60
1	AA	310	G	C5-C6-O6	-8.45	123.53	128.60
26	BB	2032	G	C5-C6-O6	-8.45	123.53	128.60
26	BB	553	G	N3-C4-C5	-8.45	124.37	128.60
26	BB	2317	A	C5-C6-N1	-8.45	113.47	117.70
1	AA	596	A	N1-C6-N6	8.45	123.67	118.60
1	AA	1462	C	N1-C2-O2	8.45	123.97	118.90
1	AA	1163	A	N1-C6-N6	8.45	123.67	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1305	G	C4-C5-N7	-8.45	107.42	110.80
26	BB	2183	A	N7-C8-N9	8.45	118.03	113.80
26	BB	678	C	C5-C6-N1	8.45	125.22	121.00
26	BB	902	C	C1'-O4'-C4'	-8.45	103.14	109.90
26	BB	1076	C	C6-N1-C2	8.45	123.68	120.30
26	BB	2043	C	O4'-C1'-C2'	-8.45	97.35	105.80
26	BB	2703	C	C5-C6-N1	-8.45	116.78	121.00
1	AA	35	G	C6-C5-N7	8.45	135.47	130.40
1	AA	146	G	O4'-C1'-N9	8.45	114.96	108.20
1	AA	448	A	C8-N9-C4	-8.45	102.42	105.80
1	AA	702	A	N1-C6-N6	8.45	123.67	118.60
4	AD	19	G	O4'-C4'-C3'	8.45	112.86	106.10
25	BA	104	A	C8-N9-C4	-8.45	102.42	105.80
26	BB	2068	U	C5'-C4'-O4'	8.45	119.24	109.10
1	AA	366	A	N1-C2-N3	-8.44	125.08	129.30
1	AA	555	U	N3-C4-C5	8.44	119.67	114.60
26	BB	302	C	O4'-C1'-N1	8.44	114.95	108.20
26	BB	377	G	C8-N9-C4	-8.45	103.02	106.40
26	BB	858	G	C5-C6-N1	-8.45	107.28	111.50
26	BB	1714	U	C5-C6-N1	-8.44	118.48	122.70
26	BB	2615	U	O4'-C1'-N1	8.45	114.96	108.20
1	AA	403	C	N3-C4-N4	8.44	123.91	118.00
26	BB	940	G	N3-C2-N2	-8.44	113.99	119.90
26	BB	962	G	C5-N7-C8	-8.44	100.08	104.30
1	AA	741	G	N9-C4-C5	8.44	108.78	105.40
1	AA	1034	G	N1-C6-O6	-8.44	114.83	119.90
26	BB	488	G	O4'-C1'-N9	8.44	114.95	108.20
26	BB	976	G	N3-C4-C5	-8.44	124.38	128.60
1	AA	1240	U	N1-C2-O2	8.44	128.71	122.80
26	BB	876	C	C1'-O4'-C4'	-8.44	103.15	109.90
1	AA	941	G	N7-C8-N9	8.44	117.32	113.10
2	AB	14	A	C8-N9-C4	-8.44	102.42	105.80
1	AA	1339	A	C5-N7-C8	8.44	108.12	103.90
2	AB	65	C	O4'-C1'-N1	8.44	114.95	108.20
26	BB	900	A	P-O3'-C3'	8.44	129.83	119.70
26	BB	1573	G	C5-N7-C8	8.44	108.52	104.30
26	BB	2537	U	C1'-O4'-C4'	8.44	116.65	109.90
26	BB	1614	A	C1'-O4'-C4'	-8.44	103.15	109.90
26	BB	2412	A	C2-N3-C4	8.44	114.82	110.60
1	AA	1151	A	C5-C6-N1	-8.44	113.48	117.70
26	BB	1630	A	O4'-C1'-N9	8.44	114.95	108.20
26	BB	2148	G	N7-C8-N9	8.44	117.32	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2697	G	N3-C4-C5	-8.44	124.38	128.60
1	AA	14	U	N3-C4-C5	-8.43	109.54	114.60
1	AA	241	G	N3-C4-N9	8.43	131.06	126.00
1	AA	597	G	N9-C4-C5	8.43	108.77	105.40
26	BB	63	A	C5-N7-C8	-8.43	99.68	103.90
1	AA	164	G	N9-C4-C5	8.43	108.77	105.40
1	AA	482	A	O4'-C1'-N9	8.43	114.94	108.20
24	AX	70	TYR	CB-CG-CD2	-8.43	115.94	121.00
26	BB	968	C	O4'-C1'-N1	8.43	114.94	108.20
25	BA	53	A	O4'-C1'-N9	8.43	114.94	108.20
26	BB	1662	U	C4-C5-C6	8.43	124.76	119.70
26	BB	2472	G	C8-N9-C4	-8.43	103.03	106.40
38	BN	78	ARG	NE-CZ-NH1	8.43	124.52	120.30
26	BB	1022	G	C1'-O4'-C4'	-8.43	103.16	109.90
26	BB	2672	U	O4'-C1'-N1	8.43	114.94	108.20
1	AA	137	U	N1-C2-O2	-8.43	116.90	122.80
1	AA	309	A	C5-N7-C8	-8.43	99.69	103.90
4	AD	15	G	N7-C8-N9	-8.43	108.89	113.10
26	BB	909	A	N9-C1'-C2'	-8.43	102.73	112.00
1	AA	606	G	C6-N1-C2	-8.43	120.05	125.10
1	AA	814	A	N1-C6-N6	-8.43	113.54	118.60
26	BB	220	G	C8-N9-C4	-8.43	103.03	106.40
26	BB	382	A	N7-C8-N9	-8.43	109.59	113.80
26	BB	1232	G	N9-C4-C5	8.43	108.77	105.40
26	BB	1293	C	N1-C2-O2	8.43	123.96	118.90
26	BB	1350	C	O4'-C1'-N1	8.43	114.94	108.20
26	BB	2056	G	N1-C2-N3	8.43	128.96	123.90
26	BB	2582	G	C4-C5-N7	-8.43	107.43	110.80
26	BB	2309	A	N1-C6-N6	-8.43	113.55	118.60
1	AA	732	C	C6-N1-C2	8.42	123.67	120.30
1	AA	891	U	C5-C6-N1	-8.42	118.49	122.70
1	AA	980	C	O4'-C4'-C3'	8.42	112.84	106.10
26	BB	1	G	N9-C4-C5	8.42	108.77	105.40
26	BB	1578	U	N1-C2-O2	8.42	128.70	122.80
26	BB	195	A	N9-C4-C5	-8.42	102.43	105.80
26	BB	705	A	N1-C6-N6	-8.42	113.55	118.60
26	BB	2410	G	C5-C6-O6	-8.42	123.55	128.60
26	BB	2572	A	C4-C5-N7	-8.42	106.49	110.70
26	BB	2881	U	C5-C4-O4	-8.42	120.85	125.90
1	AA	231	U	C3'-C2'-C1'	8.42	108.24	101.50
1	AA	509	A	N9-C4-C5	8.42	109.17	105.80
1	AA	982	U	C5'-C4'-O4'	8.42	119.20	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1350	C	N3-C4-N4	8.42	123.89	118.00
1	AA	1187	G	O4'-C1'-N9	8.42	114.94	108.20
25	BA	21	G	C5-C6-N1	8.42	115.71	111.50
26	BB	2269	G	C6-C5-N7	-8.42	125.35	130.40
26	BB	2370	G	C6-N1-C2	-8.42	120.05	125.10
26	BB	305	C	C5-C4-N4	-8.42	114.31	120.20
26	BB	319	G	O4'-C1'-N9	8.42	114.94	108.20
1	AA	276	G	C4-C5-N7	8.42	114.17	110.80
26	BB	430	A	C2-N3-C4	8.42	114.81	110.60
26	BB	1998	A	C4-C5-C6	8.42	121.21	117.00
1	AA	595	A	N7-C8-N9	8.42	118.01	113.80
1	AA	1046	A	N1-C6-N6	8.42	123.65	118.60
26	BB	1170	C	C5-C4-N4	8.41	126.09	120.20
26	BB	1288	G	N1-C2-N3	8.41	128.95	123.90
26	BB	1453	A	C2-N3-C4	8.41	114.81	110.60
26	BB	1632	A	C6-N1-C2	-8.41	113.55	118.60
1	AA	258	G	N7-C8-N9	8.41	117.31	113.10
26	BB	1048	A	N1-C2-N3	-8.41	125.09	129.30
26	BB	2206	C	N1-C2-O2	8.41	123.95	118.90
26	BB	2776	A	C2-N3-C4	8.41	114.81	110.60
1	AA	495	A	N1-C6-N6	-8.41	113.56	118.60
1	AA	622	A	N9-C1'-C2'	-8.41	102.75	112.00
1	AA	1244	G	C2-N3-C4	8.41	116.11	111.90
26	BB	2490	G	N9-C1'-C2'	8.41	124.93	114.00
26	BB	138	U	N1-C1'-C2'	-8.41	102.75	112.00
26	BB	265	A	N9-C4-C5	-8.41	102.44	105.80
26	BB	392	U	N1-C2-N3	8.41	119.95	114.90
1	AA	1040	U	N1-C2-N3	8.41	119.94	114.90
1	AA	1117	A	O4'-C1'-N9	8.41	114.93	108.20
6	AF	28	PHE	CB-CG-CD2	-8.41	114.92	120.80
26	BB	2314	A	C5-C6-N6	-8.41	116.97	123.70
1	AA	754	C	N1-C2-O2	8.41	123.94	118.90
26	BB	65	U	O4'-C1'-N1	8.41	114.92	108.20
26	BB	238	C	O4'-C1'-N1	8.41	114.92	108.20
26	BB	1504	A	C5-C6-N1	8.41	121.90	117.70
26	BB	1536	C	C6-N1-C2	-8.41	116.94	120.30
1	AA	1026	G	C6-N1-C2	8.40	130.14	125.10
1	AA	1459	G	C4-C5-N7	-8.40	107.44	110.80
26	BB	1087	G	C4-C5-C6	8.40	123.84	118.80
26	BB	2252	G	C4-C5-N7	-8.40	107.44	110.80
1	AA	62	U	C5-C6-N1	-8.40	118.50	122.70
1	AA	836	G	N9-C4-C5	8.40	108.76	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	846	G	N3-C4-N9	-8.40	120.96	126.00
4	AD	23	G	N7-C8-N9	8.40	117.30	113.10
36	BL	74	TYR	CB-CG-CD2	8.40	126.04	121.00
4	AD	27	G	C4-C5-N7	-8.40	107.44	110.80
26	BB	862	G	C5-C6-N1	8.40	115.70	111.50
26	BB	2128	G	C8-N9-C4	-8.40	103.04	106.40
26	BB	2655	G	O4'-C1'-C2'	-8.40	97.40	105.80
1	AA	36	C	N1-C2-O2	8.40	123.94	118.90
1	AA	356	A	C4-C5-C6	8.40	121.20	117.00
1	AA	519	C	C5'-C4'-O4'	8.40	119.18	109.10
26	BB	275	C	C4-C5-C6	8.40	121.60	117.40
26	BB	533	G	C4-C5-C6	8.40	123.84	118.80
26	BB	1632	A	C2-N3-C4	-8.40	106.40	110.60
26	BB	1987	A	C2-N3-C4	8.40	114.80	110.60
6	AF	200	TRP	CD1-NE1-CE2	8.40	116.56	109.00
26	BB	81	G	N3-C4-C5	-8.40	124.40	128.60
26	BB	318	C	C5-C4-N4	-8.40	114.32	120.20
26	BB	946	C	C5-C4-N4	-8.40	114.32	120.20
26	BB	974	G	N1-C2-N3	-8.40	118.86	123.90
26	BB	1445	G	N3-C4-N9	8.40	131.04	126.00
26	BB	1717	A	N1-C6-N6	8.40	123.64	118.60
1	AA	240	G	C4-C5-N7	-8.39	107.44	110.80
1	AA	1231	G	N3-C4-N9	8.39	131.04	126.00
1	AA	1349	A	C4-C5-C6	-8.39	112.80	117.00
1	AA	213	G	N1-C6-O6	-8.39	114.86	119.90
1	AA	278	G	N3-C2-N2	-8.39	114.02	119.90
4	AD	31	G	C5-C6-N1	8.39	115.70	111.50
26	BB	489	G	N1-C2-N2	-8.39	108.65	116.20
26	BB	510	C	C4-C5-C6	8.39	121.60	117.40
26	BB	876	C	N3-C4-N4	8.39	123.88	118.00
26	BB	1089	A	N9-C4-C5	8.39	109.16	105.80
26	BB	1194	A	C6-C5-N7	8.39	138.18	132.30
26	BB	1702	G	N9-C4-C5	8.39	108.76	105.40
26	BB	1848	A	C2-N3-C4	8.39	114.80	110.60
26	BB	2180	U	O4'-C1'-N1	8.39	114.92	108.20
26	BB	1455	G	C5-N7-C8	-8.39	100.10	104.30
1	AA	604	G	N1-C6-O6	8.39	124.93	119.90
26	BB	879	G	C4-C5-N7	8.39	114.16	110.80
26	BB	1296	G	N3-C4-C5	-8.39	124.41	128.60
26	BB	2770	G	C5-N7-C8	-8.39	100.10	104.30
26	BB	848	C	O4'-C1'-N1	8.39	114.91	108.20
26	BB	2370	G	C5-C6-N1	8.39	115.69	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2544	G	C6-C5-N7	-8.39	125.37	130.40
1	AA	382	A	N1-C2-N3	-8.39	125.11	129.30
1	AA	588	G	N7-C8-N9	8.39	117.29	113.10
26	BB	2723	C	C2-N3-C4	-8.39	115.71	119.90
1	AA	1485	U	C6-N1-C2	-8.39	115.97	121.00
26	BB	2118	U	N3-C2-O2	-8.39	116.33	122.20
45	BU	25	ARG	NE-CZ-NH1	8.39	124.49	120.30
26	BB	731	C	C3'-C2'-C1'	8.39	108.21	101.50
26	BB	1350	C	C1'-O4'-C4'	8.39	116.61	109.90
26	BB	1547	C	C4-C5-C6	-8.39	113.21	117.40
26	BB	1703	G	C6-N1-C2	-8.39	120.07	125.10
26	BB	2057	G	N1-C6-O6	-8.38	114.87	119.90
26	BB	2665	A	O4'-C1'-N9	8.38	114.91	108.20
1	AA	310	G	N3-C4-C5	-8.38	124.41	128.60
2	AB	29	G	C5-N7-C8	-8.38	100.11	104.30
13	AM	7	ARG	NE-CZ-NH2	-8.38	116.11	120.30
26	BB	270	A	C5-N7-C8	-8.38	99.71	103.90
26	BB	271	G	C8-N9-C1'	8.38	137.90	127.00
26	BB	918	A	C2-N3-C4	8.38	114.79	110.60
26	BB	2023	C	C4-C5-C6	8.38	121.59	117.40
1	AA	458	U	C4-C5-C6	8.38	124.73	119.70
1	AA	1069	C	N3-C2-O2	-8.38	116.03	121.90
5	AE	90	PHE	CB-CG-CD2	8.38	126.67	120.80
26	BB	60	G	N9-C4-C5	8.38	108.75	105.40
26	BB	83	A	C8-N9-C4	-8.38	102.45	105.80
26	BB	578	G	N3-C4-N9	8.38	131.03	126.00
26	BB	1977	A	N1-C2-N3	-8.38	125.11	129.30
26	BB	2649	C	C5-C4-N4	8.38	126.07	120.20
26	BB	1928	A	C1'-O4'-C4'	-8.38	103.20	109.90
26	BB	1985	C	C5-C4-N4	-8.38	114.33	120.20
26	BB	2211	A	N1-C2-N3	-8.38	125.11	129.30
26	BB	2265	U	C5-C4-O4	8.38	130.93	125.90
1	AA	715	A	C5-C6-N6	-8.38	117.00	123.70
1	AA	1107	C	N3-C4-N4	8.38	123.86	118.00
1	AA	1113	C	C4-C5-C6	-8.38	113.21	117.40
26	BB	864	G	N7-C8-N9	8.38	117.29	113.10
26	BB	960	A	C5-C6-N6	-8.38	117.00	123.70
26	BB	1035	U	C5-C4-O4	-8.38	120.87	125.90
1	AA	779	C	C6-N1-C2	-8.38	116.95	120.30
1	AA	894	G	N7-C8-N9	8.38	117.29	113.10
8	AH	137	ARG	NE-CZ-NH2	-8.38	116.11	120.30
26	BB	1246	A	N9-C4-C5	8.38	109.15	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1493	C	N3-C4-C5	-8.38	118.55	121.90
1	AA	631	C	C5-C6-N1	-8.38	116.81	121.00
1	AA	636	U	N3-C2-O2	-8.38	116.34	122.20
1	AA	855	U	C4'-C3'-C2'	-8.37	94.23	102.60
1	AA	1246	A	O4'-C1'-N9	8.38	114.90	108.20
26	BB	1952	A	N9-C1'-C2'	-8.38	102.79	112.00
26	BB	1990	C	O4'-C1'-N1	8.38	114.90	108.20
26	BB	2045	C	N1-C1'-C2'	-8.37	102.79	112.00
26	BB	1956	U	C5-C6-N1	-8.37	118.51	122.70
1	AA	79	G	C5-C6-O6	-8.37	123.58	128.60
1	AA	1139	G	C4-C5-N7	-8.37	107.45	110.80
26	BB	2032	G	N3-C4-C5	-8.37	124.41	128.60
26	BB	2687	U	O4'-C1'-N1	8.37	114.90	108.20
1	AA	1356	G	C5-C6-O6	-8.37	123.58	128.60
26	BB	153	U	N3-C4-C5	-8.37	109.58	114.60
26	BB	915	C	C4'-C3'-C2'	-8.37	94.23	102.60
26	BB	964	C	P-O3'-C3'	8.37	129.75	119.70
26	BB	2259	U	O4'-C1'-N1	8.37	114.90	108.20
1	AA	564	C	O4'-C1'-N1	8.37	114.90	108.20
26	BB	2398	U	N3-C4-O4	8.37	125.26	119.40
26	BB	348	A	C5-C6-N1	8.37	121.88	117.70
26	BB	976	G	C2-N3-C4	8.37	116.08	111.90
26	BB	2695	U	O4'-C1'-N1	8.37	114.89	108.20
26	BB	2794	C	C5-C4-N4	-8.37	114.34	120.20
1	AA	1316	G	N1-C6-O6	-8.37	114.88	119.90
26	BB	2218	G	C5-C6-O6	-8.37	123.58	128.60
1	AA	267	C	N1-C1'-C2'	-8.36	102.80	112.00
1	AA	518	C	C5-C6-N1	-8.36	116.82	121.00
1	AA	1444	U	C5-C4-O4	8.36	130.92	125.90
26	BB	82	U	C6-N1-C2	8.37	126.02	121.00
26	BB	647	G	C2-N3-C4	8.36	116.08	111.90
26	BB	811	U	N1-C1'-C2'	-8.36	102.80	112.00
26	BB	1652	A	N1-C2-N3	-8.36	125.12	129.30
26	BB	1706	C	O4'-C1'-N1	8.36	114.89	108.20
26	BB	2216	G	C8-N9-C4	-8.36	103.06	106.40
26	BB	2710	C	O4'-C4'-C3'	8.36	112.79	106.10
26	BB	1020	A	O4'-C1'-N9	8.36	114.89	108.20
26	BB	1167	C	N3-C4-C5	-8.36	118.56	121.90
26	BB	2747	G	C5-N7-C8	-8.36	100.12	104.30
1	AA	273	U	P-O3'-C3'	8.36	129.73	119.70
1	AA	470	C	N3-C4-C5	-8.36	118.56	121.90
1	AA	692	U	C5-C6-N1	-8.36	118.52	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	AU	47	ARG	NE-CZ-NH2	-8.36	116.12	120.30
26	BB	628	G	C8-N9-C4	-8.36	103.06	106.40
26	BB	904	G	C2-N3-C4	8.36	116.08	111.90
26	BB	1277	G	N7-C8-N9	8.36	117.28	113.10
26	BB	1412	U	O4'-C1'-N1	8.36	114.89	108.20
26	BB	2468	A	C4-C5-C6	-8.36	112.82	117.00
26	BB	1820	U	C5-C4-O4	-8.36	120.89	125.90
1	AA	53	A	C5'-C4'-O4'	8.35	119.12	109.10
2	AB	42	G	C2-N3-C4	8.35	116.08	111.90
26	BB	254	G	N9-C4-C5	8.35	108.74	105.40
26	BB	1291	C	C5-C6-N1	8.35	125.18	121.00
1	AA	80	A	C8-N9-C4	-8.35	102.46	105.80
1	AA	525	C	C2-N3-C4	8.35	124.08	119.90
2	AB	75	C	C4-C5-C6	8.35	121.58	117.40
26	BB	691	C	O4'-C1'-N1	8.35	114.88	108.20
26	BB	853	C	C2-N3-C4	8.35	124.08	119.90
26	BB	1856	U	C5'-C4'-O4'	8.35	119.12	109.10
26	BB	1970	A	C5-N7-C8	8.35	108.08	103.90
25	BA	82	U	C3'-C2'-C1'	8.35	108.18	101.50
26	BB	391	A	C8-N9-C4	-8.35	102.46	105.80
26	BB	536	G	C8-N9-C4	-8.35	103.06	106.40
26	BB	1292	G	C1'-O4'-C4'	-8.35	103.22	109.90
26	BB	1585	C	C5'-C4'-O4'	8.35	119.12	109.10
26	BB	1601	G	C5-C6-O6	8.35	133.61	128.60
26	BB	1604	C	C6-N1-C2	-8.35	116.96	120.30
26	BB	1682	G	C5-C6-O6	-8.35	123.59	128.60
46	BV	6	ARG	NE-CZ-NH2	-8.35	116.12	120.30
1	AA	1173	U	N3-C2-O2	-8.35	116.36	122.20
26	BB	1088	A	N7-C8-N9	8.35	117.97	113.80
1	AA	106	C	O4'-C1'-N1	8.35	114.88	108.20
1	AA	839	C	O4'-C1'-N1	8.35	114.88	108.20
26	BB	428	A	C5-N7-C8	-8.35	99.72	103.90
1	AA	885	G	C4-C5-C6	8.35	123.81	118.80
26	BB	275	C	C5-C4-N4	8.35	126.04	120.20
26	BB	2261	C	N3-C4-C5	8.35	125.24	121.90
26	BB	2886	A	O4'-C1'-N9	8.35	114.88	108.20
1	AA	107	G	C5-C6-N1	8.35	115.67	111.50
1	AA	245	U	C6-N1-C2	-8.35	115.99	121.00
1	AA	377	G	N9-C4-C5	8.35	108.74	105.40
2	AB	42	G	N3-C2-N2	8.35	125.74	119.90
26	BB	2904	U	O4'-C1'-N1	8.35	114.88	108.20
1	AA	1243	C	N3-C4-N4	8.35	123.84	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1438	G	C2-N3-C4	8.35	116.07	111.90
26	BB	34	U	N3-C4-C5	-8.35	109.59	114.60
26	BB	371	A	C8-N9-C4	8.35	109.14	105.80
26	BB	1182	G	N1-C2-N3	-8.35	118.89	123.90
26	BB	2285	C	C5-C6-N1	8.35	125.17	121.00
26	BB	135	U	N3-C4-C5	8.35	119.61	114.60
26	BB	251	A	N9-C4-C5	-8.35	102.46	105.80
26	BB	333	G	C8-N9-C4	-8.35	103.06	106.40
26	BB	412	A	N1-C6-N6	-8.35	113.59	118.60
26	BB	2348	U	N3-C2-O2	-8.35	116.36	122.20
1	AA	11	G	C6-N1-C2	-8.34	120.09	125.10
26	BB	1296	G	C5'-C4'-O4'	8.34	119.11	109.10
1	AA	282	A	C3'-C2'-C1'	8.34	108.17	101.50
1	AA	381	C	C5-C4-N4	-8.34	114.36	120.20
1	AA	918	A	N7-C8-N9	8.34	117.97	113.80
26	BB	258	G	C6-C5-N7	-8.34	125.39	130.40
1	AA	616	G	N3-C4-N9	8.34	131.00	126.00
1	AA	654	G	N3-C4-C5	8.34	132.77	128.60
1	AA	1379	G	C2-N3-C4	-8.34	107.73	111.90
1	AA	1480	A	C6-N1-C2	8.34	123.61	118.60
26	BB	2516	A	C5-C6-N6	-8.34	117.03	123.70
26	BB	2838	G	C5-C6-N1	-8.34	107.33	111.50
1	AA	637	C	C5-C4-N4	-8.34	114.36	120.20
1	AA	1175	G	C6-C5-N7	-8.34	125.40	130.40
26	BB	433	C	C5'-C4'-O4'	8.34	119.11	109.10
26	BB	469	G	C4-C5-N7	-8.34	107.46	110.80
26	BB	953	G	C4-C5-N7	8.34	114.14	110.80
26	BB	1723	G	O4'-C4'-C3'	8.34	112.77	106.10
26	BB	1479	G	C5-C6-N1	8.34	115.67	111.50
26	BB	927	A	C4-C5-N7	-8.34	106.53	110.70
26	BB	1792	G	C2-N3-C4	8.34	116.07	111.90
1	AA	352	C	O4'-C1'-C2'	-8.34	97.46	105.80
26	BB	1300	G	C4-C5-N7	8.34	114.14	110.80
26	BB	2772	C	O4'-C1'-N1	8.34	114.87	108.20
26	BB	1396	U	N1-C2-O2	8.34	128.63	122.80
26	BB	1531	C	O4'-C1'-N1	8.34	114.87	108.20
26	BB	1905	C	O4'-C1'-N1	8.34	114.87	108.20
1	AA	439	U	N3-C2-O2	-8.33	116.37	122.20
26	BB	252	G	C5-C6-N1	8.33	115.67	111.50
26	BB	1018	U	O4'-C1'-N1	8.33	114.87	108.20
26	BB	1169	A	C4-C5-C6	8.33	121.17	117.00
26	BB	1184	U	C2-N3-C4	-8.33	122.00	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1631	G	N7-C8-N9	8.33	117.27	113.10
26	BB	2702	G	N1-C6-O6	-8.33	114.90	119.90
1	AA	1377	A	C4'-C3'-C2'	-8.33	94.27	102.60
26	BB	1085	A	N7-C8-N9	-8.33	109.64	113.80
26	BB	2140	G	O4'-C4'-C3'	8.33	112.77	106.10
1	AA	320	A	N9-C1'-C2'	-8.33	102.84	112.00
1	AA	494	G	C8-N9-C4	-8.33	103.07	106.40
1	AA	1114	C	N1-C2-O2	8.33	123.90	118.90
26	BB	123	G	N9-C1'-C2'	-8.33	102.84	112.00
1	AA	1033	G	C5-C6-O6	-8.33	123.60	128.60
1	AA	1318	A	O4'-C1'-N9	8.33	114.86	108.20
26	BB	77	G	C2-N3-C4	8.33	116.06	111.90
26	BB	828	U	C5-C4-O4	-8.33	120.90	125.90
26	BB	1636	U	C2-N3-C4	-8.33	122.00	127.00
26	BB	2022	U	C2-N3-C4	-8.33	122.00	127.00
26	BB	2623	G	N7-C8-N9	-8.33	108.94	113.10
1	AA	517	G	C5-N7-C8	8.33	108.46	104.30
26	BB	840	C	N3-C4-N4	8.33	123.83	118.00
26	BB	194	G	C6-N1-C2	-8.33	120.10	125.10
26	BB	436	C	N3-C4-N4	8.33	123.83	118.00
26	BB	1779	U	C1'-O4'-C4'	-8.33	103.24	109.90
26	BB	2032	G	C4'-C3'-C2'	-8.33	94.27	102.60
26	BB	2578	G	C2-N3-C4	8.33	116.06	111.90
1	AA	636	U	C5-C6-N1	-8.32	118.54	122.70
1	AA	1077	G	C1'-O4'-C4'	-8.32	103.24	109.90
1	AA	1459	G	C5-C6-O6	-8.32	123.61	128.60
26	BB	342	A	C6-N1-C2	8.32	123.59	118.60
26	BB	2781	A	C5-C6-N1	8.32	121.86	117.70
1	AA	859	G	C5-C6-O6	8.32	133.59	128.60
26	BB	75	G	C4'-C3'-C2'	-8.32	94.28	102.60
26	BB	1822	C	O4'-C1'-N1	8.32	114.86	108.20
26	BB	2137	U	C2-N3-C4	-8.32	122.01	127.00
26	BB	2356	U	O4'-C1'-N1	8.32	114.86	108.20
26	BB	2545	G	C8-N9-C4	-8.32	103.07	106.40
26	BB	2835	A	N7-C8-N9	8.32	117.96	113.80
1	AA	106	C	C2-N3-C4	8.32	124.06	119.90
1	AA	723	U	C5-C4-O4	-8.32	120.91	125.90
26	BB	584	C	C5-C4-N4	-8.32	114.38	120.20
26	BB	2046	G	C2-N3-C4	8.32	116.06	111.90
26	BB	2361	G	O4'-C1'-N9	8.32	114.86	108.20
26	BB	620	G	C5-N7-C8	8.32	108.46	104.30
26	BB	1661	G	O4'-C1'-N9	8.32	114.86	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1688	U	P-O3'-C3'	8.32	129.68	119.70
1	AA	157	U	N3-C2-O2	-8.32	116.38	122.20
1	AA	280	C	N3-C2-O2	-8.32	116.08	121.90
1	AA	658	C	O4'-C1'-N1	8.32	114.86	108.20
1	AA	881	G	N3-C4-C5	-8.32	124.44	128.60
1	AA	1023	U	N3-C2-O2	-8.32	116.38	122.20
1	AA	1246	A	C5-N7-C8	8.32	108.06	103.90
1	AA	91	U	C5'-C4'-O4'	8.31	119.08	109.10
1	AA	1104	G	C4-C5-C6	8.31	123.79	118.80
26	BB	313	G	C3'-C2'-C1'	8.31	108.15	101.50
26	BB	373	U	C5-C4-O4	-8.31	120.91	125.90
26	BB	883	G	C4-C5-N7	8.31	114.12	110.80
26	BB	1759	A	N1-C6-N6	-8.31	113.61	118.60
26	BB	2749	A	O4'-C1'-C2'	-8.31	97.48	105.80
32	BH	54	ARG	NE-CZ-NH1	8.31	124.46	120.30
26	BB	2100	G	N3-C4-C5	-8.31	124.44	128.60
26	BB	2775	G	N3-C4-C5	-8.31	124.44	128.60
26	BB	2857	G	C2-N3-C4	8.31	116.06	111.90
1	AA	1470	U	N3-C2-O2	-8.31	116.38	122.20
26	BB	1309	G	N1-C6-O6	8.31	124.89	119.90
1	AA	1483	A	C4-C5-C6	-8.31	112.84	117.00
2	AB	27	C	C5'-C4'-O4'	8.31	119.07	109.10
12	AL	63	TYR	CB-CG-CD1	-8.31	116.01	121.00
26	BB	962	G	C4-C5-N7	8.31	114.12	110.80
26	BB	1147	A	O4'-C1'-N9	8.31	114.85	108.20
26	BB	1148	U	N1-C2-N3	8.31	119.89	114.90
26	BB	1165	A	O4'-C1'-N9	8.31	114.85	108.20
26	BB	1235	G	C8-N9-C1'	8.31	137.80	127.00
26	BB	1992	G	N9-C4-C5	8.31	108.72	105.40
1	AA	173	U	P-O3'-C3'	8.31	129.67	119.70
1	AA	413	G	N9-C4-C5	-8.31	102.08	105.40
1	AA	849	G	C8-N9-C4	-8.31	103.08	106.40
26	BB	1103	A	N1-C2-N3	-8.31	125.15	129.30
26	BB	1801	A	N1-C6-N6	-8.31	113.61	118.60
1	AA	468	A	C5'-C4'-O4'	8.30	119.07	109.10
1	AA	803	G	N9-C4-C5	-8.30	102.08	105.40
1	AA	881	G	C5-C6-N1	8.30	115.65	111.50
1	AA	930	C	O4'-C1'-N1	8.30	114.84	108.20
4	AD	7	G	N1-C2-N3	-8.31	118.92	123.90
26	BB	2204	G	C4-C5-N7	-8.31	107.48	110.80
26	BB	2636	C	O4'-C1'-N1	8.31	114.84	108.20
1	AA	469	C	C2-N3-C4	8.30	124.05	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	9	G	O4'-C1'-N9	8.30	114.84	108.20
26	BB	370	G	C3'-C2'-C1'	8.30	108.14	101.50
26	BB	1221	C	O4'-C1'-N1	8.30	114.84	108.20
26	BB	1514	G	N7-C8-N9	8.30	117.25	113.10
26	BB	1886	U	N3-C4-C5	-8.30	109.62	114.60
26	BB	2247	A	O4'-C1'-N9	8.30	114.84	108.20
1	AA	142	G	C3'-C2'-C1'	8.30	108.14	101.50
1	AA	682	G	N3-C4-C5	-8.30	124.45	128.60
4	AD	60	A	N7-C8-N9	-8.30	109.65	113.80
25	BA	71	C	O4'-C1'-N1	8.30	114.84	108.20
26	BB	2603	G	N9-C4-C5	8.30	108.72	105.40
26	BB	1243	C	O4'-C1'-N1	8.30	114.84	108.20
26	BB	2042	A	C2-N3-C4	8.30	114.75	110.60
26	BB	2639	A	C6-N1-C2	-8.30	113.62	118.60
1	AA	548	G	O4'-C1'-N9	8.30	114.84	108.20
1	AA	1025	U	O4'-C4'-C3'	8.30	112.74	106.10
1	AA	1408	A	C5'-C4'-O4'	8.30	119.06	109.10
26	BB	804	A	P-O3'-C3'	8.30	129.66	119.70
1	AA	131	A	C4'-C3'-C2'	-8.30	94.30	102.60
1	AA	191	G	C8-N9-C4	-8.30	103.08	106.40
1	AA	680	C	O4'-C1'-N1	8.29	114.84	108.20
1	AA	838	G	N3-C2-N2	-8.29	114.09	119.90
1	AA	1426	G	P-O3'-C3'	8.29	129.65	119.70
26	BB	2277	G	C2-N3-C4	8.29	116.05	111.90
26	BB	2277	G	N1-C6-O6	8.30	124.88	119.90
1	AA	776	G	C2-N3-C4	8.29	116.05	111.90
4	AD	41	C	C4-C5-C6	8.29	121.55	117.40
26	BB	1434	A	N7-C8-N9	8.29	117.95	113.80
26	BB	2558	C	N3-C2-O2	-8.29	116.09	121.90
1	AA	1075	U	O4'-C1'-N1	8.29	114.83	108.20
1	AA	1214	C	C1'-O4'-C4'	-8.29	103.27	109.90
25	BA	14	U	C5-C6-N1	-8.29	118.56	122.70
26	BB	595	C	C5-C6-N1	8.29	125.15	121.00
26	BB	1615	C	N1-C2-O2	8.29	123.88	118.90
26	BB	2087	G	C3'-C2'-C1'	8.29	108.13	101.50
26	BB	2729	G	C8-N9-C4	-8.29	103.08	106.40
26	BB	2365	G	C5-N7-C8	-8.29	100.15	104.30
1	AA	133	U	O4'-C1'-N1	8.29	114.83	108.20
4	AD	35	C	C2-N3-C4	8.29	124.04	119.90
26	BB	823	C	O4'-C1'-N1	8.29	114.83	108.20
26	BB	1815	A	C5-N7-C8	-8.29	99.75	103.90
26	BB	1891	G	C2-N3-C4	8.29	116.05	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2143	C	O4'-C1'-N1	8.29	114.83	108.20
26	BB	2253	G	C4-C5-N7	-8.29	107.48	110.80
1	AA	882	C	N3-C4-C5	-8.29	118.58	121.90
26	BB	378	C	C4-C5-C6	-8.29	113.26	117.40
26	BB	557	C	O4'-C1'-N1	8.29	114.83	108.20
26	BB	615	U	N1-C2-N3	8.29	119.87	114.90
26	BB	1018	U	N3-C2-O2	-8.29	116.40	122.20
26	BB	1973	G	C6-N1-C2	-8.29	120.13	125.10
41	BQ	97	PHE	CB-CG-CD1	-8.29	115.00	120.80
7	AG	28	ASP	CB-CG-OD1	-8.29	110.84	118.30
1	AA	965	U	C5-C4-O4	-8.28	120.93	125.90
2	AB	73	G	O4'-C1'-N9	8.29	114.83	108.20
10	AJ	3	ARG	NE-CZ-NH2	8.29	124.44	120.30
26	BB	940	G	C6-N1-C2	-8.28	120.13	125.10
26	BB	2325	G	C5-C6-O6	8.29	133.57	128.60
1	AA	1074	G	C2-N3-C4	8.28	116.04	111.90
26	BB	146	A	C6-C5-N7	8.28	138.10	132.30
26	BB	1831	G	C4-C5-C6	8.28	123.77	118.80
26	BB	2327	A	N7-C8-N9	8.28	117.94	113.80
26	BB	2873	A	P-O3'-C3'	8.28	129.64	119.70
29	BE	89	GLU	OE1-CD-OE2	8.28	133.24	123.30
26	BB	2794	C	N3-C4-C5	8.28	125.21	121.90
1	AA	1195	C	C5'-C4'-O4'	8.28	119.03	109.10
1	AA	1220	G	C8-N9-C4	-8.28	103.09	106.40
1	AA	1389	C	N3-C4-C5	-8.28	118.59	121.90
4	AD	19	G	N1-C2-N3	8.28	128.87	123.90
26	BB	68	G	C5-N7-C8	-8.28	100.16	104.30
26	BB	156	A	C5'-C4'-C3'	-8.28	102.75	116.00
26	BB	1162	G	N3-C2-N2	-8.28	114.10	119.90
26	BB	2529	G	N1-C6-O6	-8.28	114.93	119.90
26	BB	2808	G	C5-N7-C8	-8.28	100.16	104.30
26	BB	2809	A	P-O3'-C3'	8.28	129.63	119.70
26	BB	1139	G	C2-N3-C4	8.28	116.04	111.90
26	BB	2016	U	C1'-O4'-C4'	-8.28	103.28	109.90
1	AA	122	G	C5-N7-C8	-8.28	100.16	104.30
1	AA	979	C	N3-C4-N4	8.28	123.79	118.00
1	AA	1390	U	C5-C4-O4	8.28	130.87	125.90
2	AB	18	G	N3-C4-N9	8.28	130.97	126.00
26	BB	307	G	N1-C6-O6	-8.28	114.93	119.90
3	AC	52	U	O4'-C1'-N1	8.28	114.82	108.20
25	BA	3	C	C5-C6-N1	8.28	125.14	121.00
26	BB	564	C	C2-N3-C4	-8.28	115.76	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1206	G	O4'-C4'-C3'	8.28	112.72	106.10
26	BB	1456	G	C8-N9-C4	-8.28	103.09	106.40
26	BB	1774	C	C6-N1-C2	8.28	123.61	120.30
26	BB	1898	U	N1-C2-N3	8.28	119.87	114.90
26	BB	2541	A	C5-C6-N6	-8.28	117.08	123.70
26	BB	2617	U	C1'-O4'-C4'	-8.28	103.28	109.90
26	BB	2617	U	N3-C4-C5	-8.28	109.63	114.60
1	AA	91	U	C1'-O4'-C4'	8.27	116.52	109.90
1	AA	265	G	N1-C6-O6	-8.27	114.94	119.90
1	AA	541	G	N3-C2-N2	8.27	125.69	119.90
1	AA	728	A	C2-N3-C4	8.27	114.74	110.60
1	AA	983	A	N1-C2-N3	-8.27	125.16	129.30
1	AA	1013	G	N9-C4-C5	8.27	108.71	105.40
1	AA	1191	A	C4-C5-C6	-8.27	112.86	117.00
26	BB	490	C	O4'-C1'-N1	8.27	114.82	108.20
26	BB	539	G	C5-C6-N1	8.27	115.64	111.50
26	BB	658	U	C6-N1-C2	-8.27	116.04	121.00
26	BB	1250	G	N1-C2-N2	-8.27	108.75	116.20
26	BB	1417	C	O4'-C1'-N1	8.27	114.82	108.20
26	BB	1436	G	C4-C5-C6	8.27	123.76	118.80
26	BB	1650	A	C8-N9-C4	-8.27	102.49	105.80
26	BB	2388	A	C2-N3-C4	8.27	114.74	110.60
26	BB	2567	G	C2-N3-C4	8.27	116.04	111.90
26	BB	1591	A	N7-C8-N9	8.27	117.94	113.80
26	BB	2820	A	C3'-C2'-C1'	8.27	108.12	101.50
38	BN	123	ARG	NE-CZ-NH1	8.27	124.44	120.30
1	AA	402	G	C6-N1-C2	-8.27	120.14	125.10
1	AA	1321	U	C5-C4-O4	8.27	130.86	125.90
1	AA	1397	C	C4'-C3'-C2'	-8.27	94.33	102.60
26	BB	2399	G	C2-N3-C4	8.27	116.03	111.90
26	BB	2732	G	C1'-O4'-C4'	-8.27	103.28	109.90
1	AA	1419	G	C4-C5-N7	-8.27	107.49	110.80
3	AC	41	A	C4-C5-C6	8.27	121.13	117.00
1	AA	932	C	N3-C4-C5	8.27	125.21	121.90
1	AA	444	G	N9-C4-C5	-8.27	102.09	105.40
1	AA	893	C	N1-C2-O2	8.27	123.86	118.90
1	AA	1343	G	O4'-C1'-N9	8.27	114.81	108.20
5	AE	20	ARG	NE-CZ-NH1	8.27	124.43	120.30
26	BB	496	G	N9-C4-C5	8.27	108.71	105.40
26	BB	1386	C	C5-C4-N4	-8.27	114.41	120.20
26	BB	1898	U	N3-C4-O4	-8.27	113.61	119.40
26	BB	2376	A	C4-C5-N7	8.27	114.83	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2719	G	C4-C5-N7	-8.27	107.49	110.80
26	BB	2667	C	C5-C4-N4	8.27	125.99	120.20
1	AA	552	U	N1-C2-N3	8.26	119.86	114.90
1	AA	1336	C	N3-C4-N4	8.26	123.78	118.00
3	AC	20	G	C5'-C4'-O4'	8.26	119.02	109.10
26	BB	455	C	C4-C5-C6	-8.26	113.27	117.40
26	BB	749	A	C5-N7-C8	-8.26	99.77	103.90
26	BB	1929	G	N3-C4-C5	-8.26	124.47	128.60
26	BB	2096	C	N1-C2-O2	8.26	123.86	118.90
26	BB	2867	G	C2-N3-C4	8.26	116.03	111.90
1	AA	770	C	N3-C2-O2	-8.26	116.12	121.90
1	AA	1057	G	N3-C2-N2	-8.26	114.12	119.90
1	AA	1057	G	O4'-C1'-N9	8.26	114.81	108.20
25	BA	21	G	N3-C4-C5	-8.26	124.47	128.60
26	BB	1259	G	C8-N9-C4	-8.26	103.10	106.40
26	BB	2800	A	O4'-C1'-N9	8.26	114.81	108.20
26	BB	2822	G	C4'-C3'-C2'	-8.26	94.34	102.60
26	BB	1041	G	C6-C5-N7	-8.26	125.44	130.40
26	BB	1270	C	C4-C5-C6	-8.26	113.27	117.40
26	BB	1317	G	N3-C2-N2	-8.26	114.12	119.90
26	BB	1585	C	C6-N1-C2	-8.26	117.00	120.30
26	BB	1765	U	C4-C5-C6	8.26	124.66	119.70
26	BB	2016	U	O4'-C1'-N1	8.26	114.81	108.20
26	BB	2242	G	O4'-C1'-N9	-8.26	101.59	108.20
1	AA	653	U	C4-C5-C6	8.26	124.65	119.70
1	AA	1084	G	N9-C4-C5	8.26	108.70	105.40
26	BB	1109	C	N3-C2-O2	-8.26	116.12	121.90
26	BB	1722	A	N3-C4-N9	8.26	134.00	127.40
26	BB	2869	G	C4-C5-N7	8.26	114.10	110.80
1	AA	391	G	C6-C5-N7	-8.26	125.45	130.40
1	AA	790	A	P-O3'-C3'	8.26	129.61	119.70
1	AA	1331	G	N3-C4-C5	-8.26	124.47	128.60
26	BB	847	U	C6-N1-C2	8.26	125.95	121.00
26	BB	936	A	C2-N3-C4	8.26	114.73	110.60
26	BB	1507	C	N3-C2-O2	-8.26	116.12	121.90
26	BB	1878	G	N1-C2-N3	-8.26	118.95	123.90
26	BB	2216	G	N3-C4-C5	-8.26	124.47	128.60
26	BB	2471	A	C8-N9-C4	-8.25	102.50	105.80
1	AA	58	C	C4-C5-C6	-8.25	113.27	117.40
1	AA	100	G	C6-N1-C2	-8.25	120.15	125.10
1	AA	451	A	C2-N3-C4	-8.25	106.47	110.60
1	AA	557	G	N3-C2-N2	-8.25	114.12	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	128	C	C4'-C3'-C2'	-8.25	94.35	102.60
26	BB	2270	A	C4'-C3'-C2'	-8.25	94.35	102.60
37	BM	31	ARG	NE-CZ-NH1	8.25	124.43	120.30
1	AA	743	A	O4'-C1'-N9	8.25	114.80	108.20
26	BB	582	A	C6-N1-C2	-8.25	113.65	118.60
26	BB	2164	C	C6-N1-C2	-8.25	117.00	120.30
26	BB	2558	C	C5-C4-N4	-8.25	114.42	120.20
26	BB	1651	G	N3-C4-N9	8.25	130.95	126.00
1	AA	243	A	P-O3'-C3'	8.25	129.60	119.70
1	AA	41	G	N9-C4-C5	8.25	108.70	105.40
1	AA	774	G	N3-C4-N9	8.25	130.95	126.00
1	AA	1399	C	O4'-C1'-N1	8.25	114.80	108.20
11	AK	113	ARG	NE-CZ-NH1	8.25	124.42	120.30
26	BB	256	A	C5-C6-N1	8.25	121.82	117.70
26	BB	526	A	N1-C2-N3	8.25	133.42	129.30
26	BB	1184	U	N3-C2-O2	-8.25	116.43	122.20
26	BB	2312	U	C2'-C3'-O3'	8.25	127.64	109.50
26	BB	2851	A	N7-C8-N9	8.25	117.92	113.80
26	BB	856	G	C8-N9-C4	-8.24	103.10	106.40
26	BB	2331	G	C2-N3-C4	8.24	116.02	111.90
26	BB	2630	G	C4-C5-N7	8.24	114.10	110.80
1	AA	162	A	N9-C4-C5	8.24	109.10	105.80
1	AA	770	C	C1'-O4'-C4'	-8.24	103.31	109.90
1	AA	1368	A	C4-C5-N7	-8.24	106.58	110.70
3	AC	37	G	N3-C2-N2	-8.24	114.13	119.90
26	BB	915	C	O4'-C1'-N1	8.24	114.80	108.20
26	BB	908	C	N3-C4-C5	-8.24	118.60	121.90
26	BB	2748	A	C5'-C4'-O4'	8.24	118.99	109.10
1	AA	51	A	C3'-C2'-C1'	8.24	108.09	101.50
1	AA	827	U	C5-C6-N1	-8.24	118.58	122.70
26	BB	313	G	N3-C2-N2	-8.24	114.13	119.90
1	AA	1497	G	N3-C4-C5	-8.24	124.48	128.60
3	AC	51	C	C6-N1-C2	-8.24	117.00	120.30
26	BB	437	U	N1-C2-N3	8.24	119.84	114.90
26	BB	1024	G	C6-N1-C2	-8.24	120.16	125.10
26	BB	1292	G	C5-C6-O6	-8.24	123.66	128.60
26	BB	493	G	O4'-C1'-N9	8.24	114.79	108.20
26	BB	2469	A	N9-C1'-C2'	-8.24	102.94	112.00
1	AA	1181	G	N3-C2-N2	-8.24	114.14	119.90
1	AA	1480	A	O4'-C1'-N9	8.24	114.79	108.20
26	BB	438	G	C5-C6-O6	8.24	133.54	128.60
26	BB	1820	U	N3-C2-O2	-8.24	116.43	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1860	G	N9-C4-C5	-8.24	102.11	105.40
26	BB	2544	G	C5-N7-C8	-8.24	100.18	104.30
1	AA	1104	G	C2-N3-C4	8.23	116.02	111.90
1	AA	338	A	O4'-C1'-N9	8.23	114.79	108.20
1	AA	1257	A	C2-N3-C4	8.23	114.72	110.60
26	BB	507	A	O4'-C4'-C3'	8.23	112.69	106.10
26	BB	404	A	N1-C2-N3	8.23	133.42	129.30
26	BB	797	G	N3-C4-C5	-8.23	124.48	128.60
26	BB	2617	U	C4'-C3'-C2'	-8.23	94.37	102.60
1	AA	502	A	O4'-C1'-N9	8.23	114.78	108.20
26	BB	467	G	N3-C4-C5	-8.23	124.48	128.60
26	BB	2184	A	N1-C6-N6	-8.23	113.66	118.60
37	BM	100	PHE	CB-CG-CD1	-8.23	115.04	120.80
1	AA	1109	C	C5-C6-N1	-8.23	116.89	121.00
1	AA	347	G	C4'-C3'-C2'	-8.23	94.37	102.60
1	AA	653	U	C5-C6-N1	-8.23	118.59	122.70
1	AA	1266	G	N1-C6-O6	-8.23	114.96	119.90
1	AA	1299	A	N9-C4-C5	-8.23	102.51	105.80
26	BB	1846	G	C4'-C3'-C2'	-8.23	94.37	102.60
1	AA	406	G	C4-C5-N7	8.23	114.09	110.80
1	AA	513	C	O4'-C1'-N1	8.23	114.78	108.20
1	AA	1272	G	N3-C4-C5	-8.23	124.49	128.60
2	AB	41	C	C5-C6-N1	-8.23	116.89	121.00
26	BB	668	A	N1-C2-N3	8.23	133.41	129.30
26	BB	671	C	N3-C2-O2	-8.23	116.14	121.90
26	BB	2245	U	O4'-C1'-N1	8.23	114.78	108.20
26	BB	2395	C	C6-N1-C2	-8.23	117.01	120.30
26	BB	2846	G	C4-C5-C6	8.23	123.74	118.80
26	BB	2890	G	C2-N3-C4	8.23	116.01	111.90
1	AA	386	C	N3-C4-N4	8.22	123.76	118.00
1	AA	1165	U	C5-C6-N1	-8.22	118.59	122.70
1	AA	1231	G	N3-C2-N2	8.22	125.66	119.90
26	BB	2429	G	N3-C2-N2	-8.22	114.14	119.90
1	AA	417	G	N3-C4-C5	-8.22	124.49	128.60
1	AA	1207	2MG	P-O3'-C3'	8.22	129.57	119.70
26	BB	33	C	N3-C4-C5	-8.22	118.61	121.90
26	BB	685	A	C5-C6-N1	8.22	121.81	117.70
26	BB	638	G	C5-N7-C8	-8.22	100.19	104.30
26	BB	670	A	N9-C4-C5	8.22	109.09	105.80
26	BB	1318	U	N3-C2-O2	8.22	127.96	122.20
26	BB	1491	G	C6-C5-N7	-8.22	125.47	130.40
26	BB	1866	A	C2-N3-C4	8.22	114.71	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	63	C	N3-C4-C5	-8.22	118.61	121.90
1	AA	645	G	C4-C5-N7	8.22	114.09	110.80
26	BB	2317	A	C6-C5-N7	-8.22	126.54	132.30
1	AA	557	G	N9-C4-C5	8.22	108.69	105.40
1	AA	712	A	O4'-C1'-N9	8.22	114.78	108.20
1	AA	1055	A	C4'-C3'-C2'	-8.22	94.38	102.60
14	AN	85	VAL	CG1-CB-CG2	-8.22	97.75	110.90
26	BB	617	G	C5-C6-O6	-8.22	123.67	128.60
26	BB	2232	C	C2-N3-C4	8.22	124.01	119.90
26	BB	2657	A	N3-C4-N9	-8.22	120.82	127.40
1	AA	23	C	C2-N3-C4	-8.22	115.79	119.90
1	AA	81	A	C5-C6-N1	8.22	121.81	117.70
1	AA	171	A	C2-N3-C4	8.22	114.71	110.60
1	AA	1080	A	C5-C6-N1	-8.22	113.59	117.70
1	AA	1124	G	N9-C4-C5	8.22	108.69	105.40
1	AA	1253	G	C5-C6-N1	8.22	115.61	111.50
1	AA	1432	G	C8-N9-C4	-8.22	103.11	106.40
26	BB	1090	A	C4-C5-C6	-8.22	112.89	117.00
26	BB	1543	G	N7-C8-N9	8.22	117.21	113.10
26	BB	2382	G	N3-C4-C5	-8.22	124.49	128.60
26	BB	911	A	C3'-C2'-C1'	-8.22	94.93	101.50
26	BB	997	G	N9-C1'-C2'	-8.22	102.96	112.00
26	BB	1408	G	C4-C5-N7	-8.22	107.51	110.80
34	BJ	45	ARG	NE-CZ-NH1	8.22	124.41	120.30
1	AA	643	C	N1-C2-O2	8.21	123.83	118.90
1	AA	808	C	O4'-C4'-C3'	8.22	112.67	106.10
26	BB	613	A	C5-N7-C8	-8.22	99.79	103.90
1	AA	717	U	C5-C6-N1	-8.21	118.59	122.70
26	BB	403	U	C2-N1-C1'	8.21	127.56	117.70
26	BB	2161	C	N3-C2-O2	-8.22	116.15	121.90
26	BB	633	A	C4-C5-N7	8.21	114.81	110.70
26	BB	2673	G	C5-C6-N1	8.21	115.61	111.50
26	BB	2792	A	P-O3'-C3'	8.21	129.56	119.70
1	AA	39	G	O4'-C4'-C3'	-8.21	95.79	104.00
26	BB	924	G	C5'-C4'-O4'	8.21	118.96	109.10
4	AD	12	G	C5-N7-C8	-8.21	100.19	104.30
25	BA	10	G	O4'-C1'-N9	8.21	114.77	108.20
26	BB	1	G	N7-C8-N9	8.21	117.21	113.10
26	BB	240	C	N3-C4-C5	-8.21	118.61	121.90
26	BB	992	C	N3-C4-C5	-8.21	118.61	121.90
26	BB	1276	A	C8-N9-C4	-8.21	102.52	105.80
26	BB	1527	G	N1-C2-N2	8.21	123.59	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2365	G	N3-C4-C5	-8.21	124.49	128.60
26	BB	713	G	C5-C6-O6	-8.21	123.67	128.60
26	BB	2573	C	N1-C2-O2	8.21	123.83	118.90
35	BK	7	TYR	CB-CG-CD2	-8.21	116.07	121.00
1	AA	354	G	C3'-C2'-C1'	-8.21	94.93	101.50
1	AA	1416	G	N7-C8-N9	8.21	117.20	113.10
26	BB	1298	C	N3-C4-C5	-8.21	118.62	121.90
1	AA	279	A	P-O3'-C3'	8.21	129.55	119.70
1	AA	1022	A	C4'-C3'-C2'	-8.21	94.39	102.60
1	AA	1435	G	N7-C8-N9	8.21	117.20	113.10
4	AD	32	G	C5-C6-N1	8.21	115.60	111.50
26	BB	1478	G	N9-C1'-C2'	-8.21	102.97	112.00
26	BB	1666	G	N7-C8-N9	8.21	117.20	113.10
26	BB	2694	G	C5-C6-O6	-8.21	123.67	128.60
26	BB	1858	A	N1-C6-N6	8.21	123.52	118.60
1	AA	320	A	N1-C6-N6	-8.21	113.68	118.60
1	AA	467	U	N3-C2-O2	-8.21	116.46	122.20
25	BA	88	C	C6-N1-C2	8.21	123.58	120.30
26	BB	1226	A	C6-C5-N7	-8.21	126.56	132.30
1	AA	1529	G	O4'-C1'-N9	8.20	114.76	108.20
26	BB	1051	G	C5-C6-N1	-8.21	107.40	111.50
26	BB	1449	G	C4-C5-N7	-8.20	107.52	110.80
26	BB	1478	G	C4-C5-C6	8.21	123.72	118.80
26	BB	1517	G	N3-C2-N2	-8.21	114.16	119.90
26	BB	1622	G	O4'-C1'-N9	8.21	114.77	108.20
26	BB	2453	A	C4-C5-C6	-8.21	112.90	117.00
26	BB	2770	G	O4'-C1'-N9	-8.20	101.64	108.20
28	BD	170	TYR	CB-CG-CD2	8.20	125.92	121.00
1	AA	509	A	N1-C2-N3	8.20	133.40	129.30
1	AA	987	G	O4'-C1'-N9	8.20	114.76	108.20
1	AA	1500	A	N9-C4-C5	-8.20	102.52	105.80
4	AD	36	A	C6-N1-C2	-8.20	113.68	118.60
26	BB	473	G	C5-N7-C8	-8.20	100.20	104.30
26	BB	2141	G	C5-C6-N1	-8.20	107.40	111.50
1	AA	310	G	C2-N3-C4	8.20	116.00	111.90
26	BB	780	G	N1-C6-O6	-8.20	114.98	119.90
1	AA	474	G	N1-C6-O6	-8.20	114.98	119.90
1	AA	529	G	N7-C8-N9	-8.20	109.00	113.10
2	AB	44	G	N1-C2-N3	-8.20	118.98	123.90
26	BB	806	C	N3-C4-C5	8.20	125.18	121.90
26	BB	2429	G	N1-C2-N3	8.20	128.82	123.90
26	BB	2798	U	C4-C5-C6	8.20	124.62	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	177	G	C3'-C2'-C1'	8.20	108.06	101.50
1	AA	593	U	O4'-C1'-N1	8.20	114.76	108.20
4	AD	49	C	C3'-C2'-C1'	8.20	108.06	101.50
1	AA	509	A	C5-C6-N1	8.20	121.80	117.70
26	BB	1306	C	O4'-C1'-N1	8.20	114.76	108.20
3	AC	22	G	N1-C2-N3	-8.19	118.98	123.90
25	BA	20	G	C2-N3-C4	8.19	116.00	111.90
25	BA	32	U	C6-N1-C2	-8.20	116.08	121.00
26	BB	625	G	N3-C4-C5	-8.19	124.50	128.60
26	BB	2086	U	C4-C5-C6	8.20	124.62	119.70
26	BB	2542	A	N7-C8-N9	-8.19	109.70	113.80
26	BB	2666	C	O4'-C1'-N1	8.20	114.76	108.20
26	BB	2787	C	N3-C4-N4	8.19	123.74	118.00
1	AA	9	G	C4-C5-N7	-8.19	107.52	110.80
26	BB	471	A	C4'-C3'-C2'	-8.19	94.41	102.60
26	BB	808	G	N3-C4-N9	8.19	130.91	126.00
26	BB	2536	G	C5-N7-C8	-8.19	100.20	104.30
26	BB	2373	G	N3-C4-C5	-8.19	124.50	128.60
42	BR	102	ARG	NE-CZ-NH1	8.19	124.39	120.30
1	AA	288	A	N3-C4-C5	-8.19	121.07	126.80
1	AA	218	U	O4'-C1'-N1	8.19	114.75	108.20
1	AA	633	G	C5-N7-C8	-8.19	100.21	104.30
1	AA	657	U	C4-C5-C6	8.19	124.61	119.70
1	AA	799	G	N7-C8-N9	8.19	117.19	113.10
1	AA	1020	G	C2-N3-C4	8.19	116.00	111.90
26	BB	128	C	N1-C2-O2	8.19	123.81	118.90
26	BB	998	C	C4-C5-C6	-8.19	113.31	117.40
26	BB	1358	G	N3-C4-N9	8.19	130.91	126.00
26	BB	1391	U	C5'-C4'-O4'	8.19	118.93	109.10
26	BB	1504	A	C4-C5-N7	8.19	114.79	110.70
26	BB	2293	G	C8-N9-C4	-8.19	103.12	106.40
29	BE	103	ASP	CB-CG-OD2	8.19	125.67	118.30
1	AA	226	G	O4'-C1'-N9	8.19	114.75	108.20
4	AD	62	C	N3-C4-N4	8.19	123.73	118.00
25	BA	110	C	N3-C4-C5	-8.19	118.63	121.90
26	BB	875	G	N7-C8-N9	8.19	117.19	113.10
26	BB	1525	A	C6-N1-C2	-8.19	113.69	118.60
26	BB	1620	G	N9-C4-C5	-8.19	102.13	105.40
26	BB	1671	U	N3-C2-O2	-8.19	116.47	122.20
26	BB	1980	G	C5'-C4'-O4'	8.19	118.92	109.10
26	BB	1606	C	N3-C2-O2	-8.18	116.17	121.90
1	AA	193	C	N3-C4-N4	8.18	123.73	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	AM	9	ARG	NE-CZ-NH2	-8.18	116.21	120.30
26	BB	169	G	C8-N9-C4	-8.18	103.13	106.40
26	BB	182	A	N9-C1'-C2'	-8.18	103.00	112.00
26	BB	435	C	N1-C1'-C2'	-8.18	103.00	112.00
26	BB	2011	U	O4'-C1'-N1	8.18	114.75	108.20
26	BB	2264	C	N1-C1'-C2'	-8.18	103.00	112.00
1	AA	247	G	C6-N1-C2	-8.18	120.19	125.10
1	AA	1538	C	C2-N3-C4	8.18	123.99	119.90
4	AD	12	G	C8-N9-C4	-8.18	103.13	106.40
26	BB	318	C	N3-C4-N4	8.18	123.73	118.00
26	BB	2218	G	C2-N3-C4	8.18	115.99	111.90
26	BB	2570	G	C5'-C4'-O4'	8.18	118.92	109.10
26	BB	2704	C	C6-N1-C2	-8.18	117.03	120.30
1	AA	746	A	C2-N3-C4	8.18	114.69	110.60
1	AA	1419	G	N3-C2-N2	-8.18	114.18	119.90
1	AA	1504	G	C2-N3-C4	8.18	115.99	111.90
26	BB	371	A	N1-C2-N3	8.18	133.39	129.30
26	BB	409	G	C8-N9-C4	-8.18	103.13	106.40
26	BB	2360	G	C4-C5-N7	-8.18	107.53	110.80
26	BB	648	G	C5-C6-O6	-8.18	123.69	128.60
26	BB	912	C	O4'-C1'-N1	8.18	114.74	108.20
26	BB	1370	C	O5'-P-OP1	-8.18	98.34	105.70
26	BB	1991	U	C1'-O4'-C4'	8.18	116.44	109.90
26	BB	2208	C	C5-C6-N1	8.18	125.09	121.00
1	AA	1334	G	N1-C6-O6	8.18	124.81	119.90
26	BB	1751	U	C5-C6-N1	-8.18	118.61	122.70
26	BB	2848	G	C8-N9-C4	-8.18	103.13	106.40
1	AA	665	A	C5-N7-C8	-8.18	99.81	103.90
1	AA	1279	G	N9-C4-C5	8.18	108.67	105.40
26	BB	241	A	N1-C2-N3	-8.18	125.21	129.30
26	BB	1178	C	N1-C1'-C2'	-8.18	103.00	112.00
26	BB	1450	G	C8-N9-C4	-8.18	103.13	106.40
1	AA	481	G	N3-C2-N2	8.17	125.62	119.90
1	AA	539	A	C5-C6-N1	8.17	121.79	117.70
26	BB	325	G	N9-C1'-C2'	-8.17	103.01	112.00
26	BB	1517	G	N1-C6-O6	-8.17	115.00	119.90
26	BB	2175	C	N3-C4-N4	8.17	123.72	118.00
26	BB	141	G	C8-N9-C4	-8.17	103.13	106.40
26	BB	142	A	C6-N1-C2	8.17	123.50	118.60
26	BB	223	A	C4-C5-C6	8.17	121.09	117.00
26	BB	369	U	C2-N3-C4	-8.17	122.10	127.00
26	BB	519	U	O4'-C1'-N1	8.17	114.74	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	635	C	N3-C4-C5	-8.17	118.63	121.90
26	BB	1087	G	C8-N9-C4	-8.17	103.13	106.40
26	BB	2583	G	O4'-C1'-N9	8.17	114.74	108.20
26	BB	2134	A	C5-N7-C8	8.17	107.99	103.90
26	BB	2788	C	C6-N1-C2	8.17	123.57	120.30
1	AA	143	A	N1-C2-N3	-8.17	125.22	129.30
1	AA	633	G	N7-C8-N9	8.17	117.19	113.10
1	AA	1496	C	O4'-C1'-N1	8.17	114.74	108.20
26	BB	420	C	N1-C2-O2	8.17	123.80	118.90
26	BB	2543	G	N7-C8-N9	8.17	117.19	113.10
1	AA	1504	G	C4-C5-C6	8.17	123.70	118.80
26	BB	1219	U	N3-C2-O2	-8.17	116.48	122.20
26	BB	1317	G	O4'-C1'-N9	8.17	114.73	108.20
26	BB	2206	C	O4'-C1'-N1	8.17	114.73	108.20
1	AA	385	C	C1'-O4'-C4'	8.17	116.43	109.90
1	AA	1520	C	C5-C6-N1	-8.17	116.92	121.00
26	BB	975	A	C2-N3-C4	-8.17	106.52	110.60
26	BB	2374	C	N3-C4-N4	-8.17	112.28	118.00
2	AB	36	A	N1-C2-N3	8.17	133.38	129.30
26	BB	231	A	P-O3'-C3'	8.17	129.50	119.70
26	BB	458	G	N3-C4-C5	-8.17	124.52	128.60
26	BB	1456	G	C5'-C4'-C3'	-8.17	102.93	116.00
1	AA	77	A	N7-C8-N9	8.16	117.88	113.80
1	AA	204	G	C1'-O4'-C4'	-8.16	103.37	109.90
1	AA	644	U	N3-C2-O2	-8.16	116.48	122.20
26	BB	104	A	C5-C6-N1	8.16	121.78	117.70
26	BB	953	G	C6-N1-C2	-8.16	120.20	125.10
6	AF	125	ARG	NE-CZ-NH1	8.16	124.38	120.30
25	BA	13	G	C5-C6-N1	8.16	115.58	111.50
26	BB	438	G	C5-C6-N1	-8.16	107.42	111.50
26	BB	1446	C	C4'-C3'-C2'	-8.16	94.44	102.60
26	BB	1461	C	N3-C4-N4	8.16	123.71	118.00
26	BB	1801	A	O4'-C1'-C2'	-8.16	97.64	105.80
26	BB	1846	G	N3-C2-N2	8.16	125.61	119.90
26	BB	1948	G	C2-N3-C4	8.16	115.98	111.90
26	BB	2403	C	N3-C2-O2	-8.16	116.19	121.90
1	AA	649	A	C5-C6-N1	8.16	121.78	117.70
1	AA	755	G	C2-N3-C4	8.16	115.98	111.90
26	BB	1368	G	C2-N3-C4	8.16	115.98	111.90
1	AA	869	G	N1-C6-O6	-8.16	115.00	119.90
1	AA	1160	G	C5-C6-N1	8.16	115.58	111.50
26	BB	409	G	C5-C6-O6	-8.16	123.70	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	619	G	N1-C2-N3	-8.16	119.00	123.90
26	BB	1591	A	C8-N9-C4	-8.16	102.54	105.80
26	BB	1854	A	C2-N3-C4	8.16	114.68	110.60
26	BB	1950	G	C1'-O4'-C4'	-8.16	103.37	109.90
26	BB	1881	C	N3-C4-C5	-8.16	118.64	121.90
1	AA	131	A	C1'-O4'-C4'	-8.16	103.38	109.90
1	AA	869	G	C5'-C4'-C3'	-8.16	102.95	116.00
1	AA	1333	A	C2-N3-C4	8.16	114.68	110.60
26	BB	337	C	C3'-C2'-C1'	-8.16	94.97	101.50
26	BB	537	G	C8-N9-C4	-8.16	103.14	106.40
26	BB	1418	G	N9-C4-C5	-8.16	102.14	105.40
26	BB	2015	A	C6-N1-C2	8.16	123.50	118.60
26	BB	2727	A	N7-C8-N9	8.16	117.88	113.80
26	BB	844	A	C8-N9-C4	8.16	109.06	105.80
26	BB	886	A	O4'-C4'-C3'	8.16	112.62	106.10
26	BB	1420	A	P-O3'-C3'	8.16	129.49	119.70
26	BB	1714	U	N1-C1'-C2'	-8.16	103.03	112.00
1	AA	1482	G	N1-C6-O6	-8.15	115.01	119.90
26	BB	481	G	N1-C2-N2	8.15	123.54	116.20
26	BB	1659	G	C4-C5-N7	8.15	114.06	110.80
26	BB	1848	A	N1-C2-N3	-8.15	125.22	129.30
26	BB	2237	G	C2-N3-C4	-8.15	107.82	111.90
26	BB	2236	U	N3-C4-O4	8.15	125.11	119.40
26	BB	2795	C	C2-N3-C4	8.15	123.98	119.90
37	BM	120	PRO	N-CA-CB	8.15	113.09	103.30
1	AA	25	C	N3-C4-N4	8.15	123.70	118.00
1	AA	277	C	N3-C2-O2	-8.15	116.19	121.90
1	AA	580	C	C6-N1-C2	8.15	123.56	120.30
26	BB	106	C	O4'-C1'-N1	8.15	114.72	108.20
26	BB	583	G	N9-C4-C5	8.15	108.66	105.40
26	BB	1122	G	C2-N3-C4	8.15	115.98	111.90
26	BB	2011	U	N1-C2-N3	8.15	119.79	114.90
26	BB	2810	A	N9-C1'-C2'	-8.15	103.03	112.00
26	BB	2488	G	N3-C4-N9	8.15	130.89	126.00
26	BB	2719	G	N3-C4-C5	-8.15	124.53	128.60
1	AA	353	A	C1'-O4'-C4'	8.15	116.42	109.90
1	AA	531	U	P-O3'-C3'	8.15	129.48	119.70
1	AA	1109	C	C4'-C3'-C2'	-8.15	94.45	102.60
1	AA	1133	G	C6-C5-N7	8.15	135.29	130.40
3	AC	32	U	N3-C2-O2	-8.15	116.50	122.20
26	BB	65	U	C2-N3-C4	-8.15	122.11	127.00
26	BB	921	C	C6-N1-C2	-8.15	117.04	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2565	A	C3'-C2'-C1'	8.15	108.02	101.50
3	AC	45	G	C5-N7-C8	8.15	108.37	104.30
26	BB	726	G	C8-N9-C4	-8.15	103.14	106.40
26	BB	829	A	C5-C6-N1	8.15	121.77	117.70
26	BB	1235	G	N3-C2-N2	8.15	125.60	119.90
26	BB	1269	A	C4-C5-N7	8.15	114.77	110.70
26	BB	1627	G	C8-N9-C4	-8.15	103.14	106.40
26	BB	1643	G	N3-C4-N9	8.15	130.89	126.00
26	BB	1867	G	N1-C6-O6	-8.15	115.01	119.90
26	BB	2536	G	C1'-O4'-C4'	-8.15	103.38	109.90
1	AA	773	G	C8-N9-C4	-8.14	103.14	106.40
1	AA	149	A	N9-C1'-C2'	-8.14	103.04	112.00
1	AA	895	G	C3'-C2'-C1'	-8.14	94.98	101.50
1	AA	1371	G	O4'-C1'-N9	8.14	114.72	108.20
1	AA	1485	U	N1-C2-N3	8.14	119.79	114.90
26	BB	543	G	C2-N3-C4	8.14	115.97	111.90
26	BB	2126	A	N7-C8-N9	8.14	117.87	113.80
4	AD	61	U	C2-N3-C4	-8.14	122.11	127.00
26	BB	2546	U	C4-C5-C6	8.14	124.59	119.70
26	BB	2887	A	C8-N9-C4	-8.14	102.54	105.80
26	BB	2897	U	C3'-C2'-C1'	8.14	108.02	101.50
1	AA	229	U	N3-C4-O4	8.14	125.10	119.40
1	AA	1501	C	C2-N3-C4	-8.14	115.83	119.90
26	BB	465	G	C1'-O4'-C4'	8.14	116.41	109.90
26	BB	1210	G	C8-N9-C4	-8.14	103.14	106.40
3	AC	31	U	N1-C1'-C2'	-8.14	103.05	112.00
26	BB	221	A	C4-C5-N7	-8.14	106.63	110.70
26	BB	1649	G	C4-C5-N7	-8.14	107.54	110.80
26	BB	1698	A	C4-C5-C6	-8.14	112.93	117.00
26	BB	2244	U	O4'-C1'-N1	8.14	114.71	108.20
26	BB	2523	G	N3-C4-N9	8.14	130.88	126.00
26	BB	936	A	C4-C5-N7	-8.14	106.63	110.70
26	BB	2317	A	C1'-O4'-C4'	-8.14	103.39	109.90
26	BB	821	A	C4'-C3'-C2'	-8.14	94.46	102.60
26	BB	1371	G	C4-C5-C6	8.14	123.68	118.80
1	AA	1357	A	C6-N1-C2	8.14	123.48	118.60
4	AD	31	G	C8-N9-C4	-8.14	103.14	106.40
8	AH	137	ARG	NE-CZ-NH1	8.14	124.37	120.30
26	BB	421	C	C5-C6-N1	8.14	125.07	121.00
26	BB	637	A	C4-C5-N7	8.14	114.77	110.70
1	AA	424	G	C2-N3-C4	8.13	115.97	111.90
1	AA	1023	U	N3-C4-O4	8.13	125.09	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1254	A	N9-C4-C5	8.13	109.05	105.80
26	BB	1243	C	C2-N3-C4	8.13	123.97	119.90
26	BB	1719	G	C5'-C4'-O4'	8.14	118.86	109.10
1	AA	729	A	O4'-C1'-N9	8.13	114.71	108.20
1	AA	1185	G	N1-C6-O6	-8.13	115.02	119.90
26	BB	879	G	C6-C5-N7	-8.13	125.52	130.40
1	AA	604	G	N1-C2-N3	8.13	128.78	123.90
25	BA	54	G	N3-C4-C5	-8.13	124.53	128.60
26	BB	803	U	C5-C4-O4	-8.13	121.02	125.90
26	BB	1131	G	O4'-C1'-N9	8.13	114.70	108.20
26	BB	1365	A	C5-C6-N1	8.13	121.77	117.70
26	BB	2029	G	C3'-C2'-C1'	8.13	108.00	101.50
26	BB	2231	U	C4-C5-C6	8.13	124.58	119.70
26	BB	2276	G	C2-N3-C4	8.13	115.97	111.90
26	BB	2812	G	C2-N3-C4	8.13	115.97	111.90
1	AA	834	U	N1-C2-O2	-8.13	117.11	122.80
1	AA	1404	C	C2-N3-C4	8.13	123.96	119.90
26	BB	769	U	N1-C2-O2	8.13	128.49	122.80
26	BB	1172	C	C3'-C2'-C1'	-8.13	95.00	101.50
26	BB	1412	U	C5-C4-O4	8.13	130.78	125.90
31	BG	79	ARG	NE-CZ-NH2	8.13	124.36	120.30
26	BB	1666	G	C5-C6-O6	-8.13	123.72	128.60
1	AA	187	G	C2-N3-C4	8.13	115.96	111.90
1	AA	573	A	O4'-C1'-N9	-8.13	101.70	108.20
1	AA	1040	U	C5-C4-O4	-8.13	121.02	125.90
1	AA	1067	A	N7-C8-N9	-8.13	109.74	113.80
2	AB	66	C	C2-N3-C4	8.13	123.96	119.90
1	AA	1421	G	C6-C5-N7	-8.12	125.53	130.40
26	BB	404	A	N9-C4-C5	-8.12	102.55	105.80
26	BB	1216	G	C5-N7-C8	8.13	108.36	104.30
26	BB	797	G	C1'-O4'-C4'	8.12	116.40	109.90
26	BB	2238	G	C2-N3-C4	8.12	115.96	111.90
26	BB	2333	A	C8-N9-C4	-8.12	102.55	105.80
1	AA	786	G	N3-C4-C5	-8.12	124.54	128.60
26	BB	651	G	N3-C4-N9	8.12	130.87	126.00
1	AA	885	G	C3'-C2'-C1'	-8.12	95.00	101.50
1	AA	1226	C	O4'-C1'-N1	8.12	114.70	108.20
26	BB	1437	C	C5-C6-N1	8.12	125.06	121.00
26	BB	1901	A	N1-C2-N3	-8.12	125.24	129.30
1	AA	1461	G	C5-C6-N1	8.12	115.56	111.50
4	AD	60	A	C5'-C4'-O4'	8.12	118.84	109.10
26	BB	932	U	C3'-C2'-C1'	8.12	108.00	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2063	C	C5'-C4'-O4'	8.12	118.85	109.10
26	BB	2336	A	C5-C6-N1	8.12	121.76	117.70
26	BB	2879	A	N9-C4-C5	-8.12	102.55	105.80
1	AA	222	C	N3-C4-N4	8.12	123.68	118.00
26	BB	1324	G	O4'-C1'-N9	8.12	114.70	108.20
1	AA	700	G	C5-C6-O6	-8.12	123.73	128.60
1	AA	984	C	O4'-C1'-N1	8.12	114.69	108.20
1	AA	1082	A	N1-C6-N6	8.12	123.47	118.60
26	BB	649	G	C5-C6-N1	8.12	115.56	111.50
1	AA	1415	G	C8-N9-C4	-8.12	103.15	106.40
26	BB	702	U	C2-N3-C4	-8.12	122.13	127.00
26	BB	2186	G	C2-N3-C4	8.12	115.96	111.90
47	BW	93	ARG	NE-CZ-NH2	8.12	124.36	120.30
1	AA	289	G	O4'-C4'-C3'	8.12	112.59	106.10
1	AA	547	A	C6-C5-N7	8.12	137.98	132.30
1	AA	1125	U	O4'-C1'-N1	8.11	114.69	108.20
1	AA	1231	G	C6-C5-N7	-8.11	125.53	130.40
5	AE	15	PHE	CB-CG-CD2	-8.11	115.12	120.80
26	BB	555	G	C5-C6-O6	8.12	133.47	128.60
26	BB	1819	A	O4'-C1'-N9	8.12	114.69	108.20
26	BB	2166	U	C1'-O4'-C4'	-8.11	103.41	109.90
26	BB	2236	U	C5-C4-O4	-8.12	121.03	125.90
26	BB	2846	G	N3-C4-N9	8.11	130.87	126.00
26	BB	2888	C	C5-C4-N4	8.12	125.88	120.20
1	AA	1321	U	C2-N3-C4	-8.11	122.13	127.00
1	AA	774	G	C6-C5-N7	-8.11	125.53	130.40
1	AA	807	A	N3-C4-C5	8.11	132.48	126.80
1	AA	1461	G	C6-N1-C2	-8.11	120.23	125.10
26	BB	1817	G	C4-N9-C1'	-8.11	115.95	126.50
26	BB	2426	A	O4'-C1'-N9	8.11	114.69	108.20
26	BB	2678	C	C1'-O4'-C4'	8.11	116.39	109.90
26	BB	1246	A	C3'-C2'-C1'	8.11	107.99	101.50
26	BB	2111	U	C5-C6-N1	-8.11	118.64	122.70
26	BB	2797	U	C5'-C4'-O4'	8.11	118.83	109.10
26	BB	2848	G	P-O3'-C3'	8.11	129.43	119.70
1	AA	276	G	N3-C2-N2	-8.11	114.22	119.90
1	AA	554	A	O4'-C1'-N9	8.11	114.69	108.20
26	BB	815	C	N3-C2-O2	-8.11	116.22	121.90
26	BB	1380	G	N9-C4-C5	8.11	108.64	105.40
1	AA	1193	G	N9-C4-C5	8.11	108.64	105.40
1	AA	1361	G	C5-N7-C8	-8.11	100.25	104.30
26	BB	2128	G	C5-C6-O6	-8.11	123.73	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	363	A	C2-N3-C4	8.11	114.65	110.60
4	AD	7	G	C2-N3-C4	8.11	115.95	111.90
26	BB	73	A	N1-C6-N6	8.11	123.46	118.60
1	AA	1121	U	O4'-C1'-N1	8.11	114.68	108.20
26	BB	291	G	C3'-C2'-C1'	-8.11	95.02	101.50
26	BB	922	C	N3-C4-N4	8.11	123.67	118.00
26	BB	1383	A	C1'-O4'-C4'	-8.11	103.42	109.90
1	AA	517	G	C4-C5-N7	-8.10	107.56	110.80
1	AA	1453	G	C5-C6-N1	-8.10	107.45	111.50
26	BB	1647	U	C5-C6-N1	-8.10	118.65	122.70
1	AA	300	A	C4-C5-N7	-8.10	106.65	110.70
1	AA	600	A	C4'-C3'-C2'	-8.10	94.50	102.60
26	BB	167	A	N7-C8-N9	8.10	117.85	113.80
26	BB	810	U	C4'-C3'-C2'	-8.10	94.50	102.60
26	BB	1216	G	N1-C6-O6	-8.10	115.04	119.90
26	BB	1759	A	C4-C5-N7	-8.10	106.65	110.70
26	BB	2863	C	O4'-C1'-N1	8.10	114.68	108.20
1	AA	12	U	O4'-C1'-N1	8.10	114.68	108.20
1	AA	210	C	C4-C5-C6	-8.10	113.35	117.40
1	AA	670	G	N1-C6-O6	8.10	124.76	119.90
26	BB	2614	A	O4'-C1'-N9	8.10	114.68	108.20
1	AA	1004	A	C5'-C4'-O4'	8.10	118.82	109.10
1	AA	1515	G	C6-N1-C2	-8.10	120.24	125.10
26	BB	308	G	N7-C8-N9	8.10	117.15	113.10
26	BB	1986	C	N1-C2-O2	8.10	123.76	118.90
26	BB	2570	G	C5-N7-C8	-8.10	100.25	104.30
26	BB	2663	G	P-O3'-C3'	8.10	129.42	119.70
1	AA	388	G	N3-C4-N9	8.10	130.86	126.00
1	AA	540	G	N1-C2-N3	-8.10	119.04	123.90
1	AA	746	A	N1-C6-N6	-8.10	113.74	118.60
14	AN	10	ARG	NE-CZ-NH2	8.10	124.35	120.30
26	BB	1740	G	C4-C5-N7	8.10	114.04	110.80
26	BB	2347	C	C1'-O4'-C4'	8.10	116.38	109.90
1	AA	1048	G	N1-C2-N2	8.09	123.48	116.20
1	AA	1399	C	N3-C4-C5	-8.09	118.66	121.90
2	AB	58	A	P-O3'-C3'	8.09	129.41	119.70
3	AC	47	C	C4'-C3'-C2'	8.09	110.69	102.60
25	BA	10	G	C4-C5-N7	-8.09	107.56	110.80
25	BA	35	C	O4'-C1'-N1	8.09	114.67	108.20
26	BB	1555	G	N7-C8-N9	8.09	117.15	113.10
26	BB	2221	G	O4'-C1'-N9	8.09	114.67	108.20
26	BB	2189	U	O4'-C1'-N1	8.09	114.67	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	277	C	N1-C2-O2	8.09	123.75	118.90
1	AA	1195	C	O4'-C1'-N1	8.09	114.67	108.20
26	BB	139	U	O4'-C1'-N1	8.09	114.67	108.20
26	BB	267	C	C5-C6-N1	8.09	125.05	121.00
26	BB	1017	G	C2-N3-C4	-8.09	107.86	111.90
26	BB	1651	G	C1'-O4'-C4'	-8.09	103.43	109.90
26	BB	1623	G	C4-C5-N7	-8.09	107.56	110.80
26	BB	2171	A	N1-C6-N6	8.09	123.45	118.60
26	BB	2549	G	C4-C5-N7	-8.09	107.56	110.80
1	AA	703	G	C4-C5-C6	8.09	123.65	118.80
1	AA	944	G	O4'-C1'-N9	8.09	114.67	108.20
26	BB	1497	U	C2-N1-C1'	8.09	127.41	117.70
26	BB	2324	U	C5'-C4'-O4'	-8.09	99.39	109.10
2	AB	21	A	O4'-C1'-N9	8.09	114.67	108.20
3	AC	16	A	C6-C5-N7	8.09	137.96	132.30
26	BB	107	G	N3-C4-N9	8.09	130.85	126.00
26	BB	887	U	N3-C4-O4	8.09	125.06	119.40
26	BB	1796	U	N1-C2-N3	8.09	119.75	114.90
26	BB	155	A	C5-C6-N1	8.09	121.74	117.70
26	BB	768	G	C8-N9-C4	-8.09	103.17	106.40
26	BB	1374	G	C6-N1-C2	-8.09	120.25	125.10
26	BB	1384	A	C8-N9-C4	-8.09	102.57	105.80
26	BB	2579	C	C5-C6-N1	-8.09	116.96	121.00
1	AA	134	G	N7-C8-N9	8.08	117.14	113.10
1	AA	1244	G	N1-C6-O6	-8.08	115.05	119.90
2	AB	10	G	O4'-C1'-C2'	8.08	114.88	107.60
26	BB	399	U	C1'-O4'-C4'	-8.08	103.43	109.90
26	BB	2453	A	N1-C2-N3	-8.08	125.26	129.30
1	AA	1171	A	C5-N7-C8	8.08	107.94	103.90
1	AA	1293	C	C4-C5-C6	-8.08	113.36	117.40
2	AB	43	G	N3-C4-N9	8.08	130.85	126.00
26	BB	1106	G	C5-C6-O6	-8.08	123.75	128.60
26	BB	2843	G	N3-C2-N2	-8.08	114.24	119.90
1	AA	1412	C	C4'-C3'-C2'	-8.08	94.52	102.60
26	BB	1813	G	O4'-C4'-C3'	8.08	112.56	106.10
26	BB	2407	A	C6-N1-C2	8.08	123.45	118.60
26	BB	2744	G	C2-N3-C4	-8.08	107.86	111.90
26	BB	62	U	O4'-C1'-N1	8.08	114.66	108.20
26	BB	1370	C	C2-N3-C4	8.08	123.94	119.90
1	AA	1014	A	N7-C8-N9	-8.08	109.76	113.80
1	AA	1321	U	C1'-O4'-C4'	8.08	116.36	109.90
26	BB	783	A	O4'-C1'-N9	-8.08	101.74	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	41	C	N1-C1'-C2'	-8.08	103.12	112.00
26	BB	100	U	N3-C2-O2	-8.08	116.55	122.20
26	BB	413	C	N1-C2-O2	8.08	123.75	118.90
26	BB	1591	A	C5'-C4'-O4'	8.08	118.79	109.10
26	BB	2744	G	N1-C2-N3	8.08	128.75	123.90
1	AA	404	G	C4'-C3'-C2'	-8.07	94.53	102.60
1	AA	515	G	N1-C2-N3	-8.07	119.06	123.90
1	AA	1103	C	O4'-C1'-N1	8.07	114.66	108.20
1	AA	1158	C	N3-C2-O2	-8.07	116.25	121.90
26	BB	155	A	C8-N9-C4	8.07	109.03	105.80
26	BB	2359	C	C4-C5-C6	-8.07	113.36	117.40
26	BB	2871	U	C5-C4-O4	-8.07	121.06	125.90
1	AA	1166	G	C4-C5-C6	8.07	123.64	118.80
1	AA	1302	C	N3-C4-C5	-8.07	118.67	121.90
1	AA	1492	A	C6-C5-N7	8.07	137.95	132.30
2	AB	19	G	C5-N7-C8	8.07	108.34	104.30
26	BB	279	A	N9-C4-C5	-8.07	102.57	105.80
26	BB	417	C	C3'-C2'-C1'	8.07	107.96	101.50
26	BB	646	U	O4'-C1'-N1	8.07	114.66	108.20
26	BB	872	U	C2-N3-C4	-8.07	122.16	127.00
1	AA	1161	C	C5'-C4'-O4'	8.07	118.78	109.10
2	AB	43	G	C6-N1-C2	-8.07	120.26	125.10
26	BB	907	G	N9-C4-C5	-8.07	102.17	105.40
26	BB	2349	G	C8-N9-C4	8.07	109.63	106.40
1	AA	714	G	N3-C4-N9	8.07	130.84	126.00
1	AA	1131	G	N1-C2-N2	8.07	123.46	116.20
1	AA	1171	A	N7-C8-N9	-8.07	109.77	113.80
1	AA	1358	U	N1-C2-N3	8.07	119.74	114.90
26	BB	68	G	N9-C4-C5	-8.07	102.17	105.40
26	BB	358	U	N3-C2-O2	-8.07	116.55	122.20
26	BB	502	A	C5-C6-N1	8.07	121.73	117.70
26	BB	1578	U	N3-C2-O2	-8.07	116.55	122.20
26	BB	859	G	N3-C4-C5	-8.07	124.56	128.60
26	BB	1049	C	C2-N3-C4	8.07	123.94	119.90
26	BB	1358	G	C4'-C3'-C2'	-8.07	94.53	102.60
26	BB	1598	A	C5'-C4'-O4'	8.07	118.78	109.10
26	BB	1920	C	O4'-C1'-N1	8.07	114.66	108.20
1	AA	248	C	P-O3'-C3'	8.07	129.38	119.70
1	AA	637	C	C3'-C2'-C1'	-8.07	95.05	101.50
1	AA	1274	A	N1-C6-N6	8.07	123.44	118.60
26	BB	2346	A	O4'-C1'-N9	8.07	114.66	108.20
25	BA	27	C	N3-C4-C5	-8.07	118.67	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	248	G	N7-C8-N9	8.07	117.13	113.10
26	BB	580	U	C5'-C4'-O4'	8.07	118.78	109.10
26	BB	1785	A	C8-N9-C4	-8.07	102.57	105.80
26	BB	2551	C	O4'-C1'-N1	8.07	114.65	108.20
26	BB	2561	U	N3-C4-O4	8.07	125.05	119.40
26	BB	2850	A	N1-C6-N6	8.07	123.44	118.60
26	BB	2878	U	N1-C2-N3	8.07	119.74	114.90
31	BG	9	ASP	CB-CG-OD2	8.07	125.56	118.30
1	AA	300	A	C5-N7-C8	8.06	107.93	103.90
26	BB	1152	C	C6-N1-C2	-8.06	117.07	120.30
26	BB	2035	G	N7-C8-N9	-8.06	109.07	113.10
1	AA	765	G	C6-N1-C2	-8.06	120.26	125.10
26	BB	355	U	C2-N3-C4	8.06	131.84	127.00
26	BB	367	G	N3-C2-N2	-8.06	114.26	119.90
26	BB	981	A	P-O3'-C3'	8.06	129.38	119.70
26	BB	2047	C	C3'-C2'-C1'	8.06	107.95	101.50
26	BB	2534	A	C4-C5-C6	-8.06	112.97	117.00
26	BB	2868	A	C4'-C3'-C2'	-8.06	94.54	102.60
1	AA	28	A	O4'-C1'-N9	8.06	114.65	108.20
1	AA	372	C	C5-C6-N1	-8.06	116.97	121.00
1	AA	882	C	O4'-C1'-N1	8.06	114.65	108.20
1	AA	1181	G	C8-N9-C4	-8.06	103.17	106.40
26	BB	1340	U	P-O3'-C3'	8.06	129.38	119.70
26	BB	1774	C	N3-C4-C5	-8.06	118.68	121.90
39	BO	38	ARG	NE-CZ-NH1	8.06	124.33	120.30
1	AA	821	G	N3-C4-N9	8.06	130.84	126.00
25	BA	94	A	C6-N1-C2	8.06	123.44	118.60
26	BB	60	G	O5'-P-OP2	-8.06	98.45	105.70
26	BB	687	C	N3-C4-C5	8.06	125.12	121.90
26	BB	1952	A	C2-N3-C4	-8.06	106.57	110.60
26	BB	2437	G	N3-C4-N9	8.06	130.84	126.00
26	BB	575	A	C2-N3-C4	8.06	114.63	110.60
26	BB	1054	A	C4-C5-N7	-8.06	106.67	110.70
26	BB	1397	U	N3-C2-O2	-8.06	116.56	122.20
26	BB	1574	C	N3-C2-O2	-8.06	116.26	121.90
26	BB	2682	A	C5'-C4'-C3'	-8.06	103.11	116.00
42	BR	112	ARG	NE-CZ-NH2	-8.06	116.27	120.30
1	AA	26	A	C6-C5-N7	8.06	137.94	132.30
1	AA	194	C	N3-C2-O2	-8.05	116.26	121.90
1	AA	388	G	C5-N7-C8	8.05	108.33	104.30
26	BB	2250	G	C5-C6-N1	8.06	115.53	111.50
26	BB	2471	A	N1-C6-N6	-8.06	113.77	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	520	A	C5-N7-C8	8.05	107.93	103.90
1	AA	727	G	O4'-C1'-N9	8.05	114.64	108.20
1	AA	978	A	C5'-C4'-O4'	8.05	118.77	109.10
1	AA	1369	C	N1-C1'-C2'	-8.05	103.14	112.00
4	AD	45	A	C2-N3-C4	8.05	114.63	110.60
26	BB	1219	U	C5-C6-N1	-8.05	118.67	122.70
26	BB	2410	G	C5'-C4'-O4'	8.05	118.77	109.10
1	AA	937	A	P-O3'-C3'	8.05	129.36	119.70
1	AA	1179	A	O4'-C1'-N9	8.05	114.64	108.20
26	BB	86	G	C2-N3-C4	8.05	115.93	111.90
26	BB	223	A	C1'-O4'-C4'	-8.05	103.46	109.90
43	BS	31	TYR	CB-CG-CD2	-8.05	116.17	121.00
2	AB	3	G	C8-N9-C4	-8.05	103.18	106.40
26	BB	1745	A	N7-C8-N9	-8.05	109.78	113.80
26	BB	2125	G	O4'-C1'-C2'	-8.05	97.75	105.80
26	BB	2189	U	C5-C6-N1	-8.05	118.67	122.70
26	BB	2474	U	C5-C4-O4	-8.05	121.07	125.90
1	AA	493	A	C3'-C2'-C1'	8.05	107.94	101.50
2	AB	68	C	C6-N1-C2	-8.05	117.08	120.30
4	AD	7	G	O4'-C1'-N9	8.05	114.64	108.20
26	BB	516	C	C6-N1-C2	-8.05	117.08	120.30
26	BB	529	A	C5-C6-N6	8.05	130.14	123.70
26	BB	1041	G	C5-C6-O6	-8.05	123.77	128.60
26	BB	1171	G	O4'-C1'-N9	8.05	114.64	108.20
26	BB	2430	A	N1-C6-N6	-8.05	113.77	118.60
26	BB	2540	C	C5-C6-N1	8.05	125.03	121.00
1	AA	228	A	C4-C5-C6	-8.04	112.98	117.00
1	AA	410	G	C5-C6-O6	-8.04	123.77	128.60
1	AA	945	G	C6-C5-N7	-8.04	125.57	130.40
26	BB	355	U	O4'-C1'-N1	8.04	114.64	108.20
26	BB	672	C	O4'-C1'-N1	8.04	114.64	108.20
26	BB	1156	A	C5-C6-N6	-8.04	117.27	123.70
26	BB	1321	A	O5'-P-OP2	-8.04	98.46	105.70
26	BB	2177	C	O4'-C1'-N1	8.04	114.64	108.20
26	BB	2693	G	C4'-C3'-C2'	-8.04	94.56	102.60
1	AA	888	G	N1-C2-N2	-8.04	108.96	116.20
1	AA	1044	A	C1'-O4'-C4'	8.04	116.33	109.90
26	BB	1900	A	O4'-C1'-N9	8.04	114.63	108.20
26	BB	2459	A	O4'-C4'-C3'	8.04	112.53	106.10
1	AA	138	G	C5-C6-O6	-8.04	123.78	128.60
1	AA	933	G	C8-N9-C4	-8.04	103.18	106.40
26	BB	1855	U	N3-C2-O2	-8.04	116.57	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2009	A	N1-C2-N3	8.04	133.32	129.30
26	BB	2692	G	C6-N1-C2	-8.04	120.28	125.10
1	AA	532	A	C6-C5-N7	8.04	137.93	132.30
1	AA	724	G	C6-C5-N7	-8.04	125.58	130.40
26	BB	733	G	C5-C6-O6	-8.04	123.78	128.60
26	BB	1056	G	N3-C2-N2	8.04	125.53	119.90
1	AA	491	G	C8-N9-C4	-8.04	103.19	106.40
1	AA	639	G	N1-C6-O6	8.04	124.72	119.90
1	AA	1532	U	C5-C4-O4	-8.04	121.08	125.90
26	BB	301	G	C8-N9-C4	-8.04	103.19	106.40
26	BB	718	A	O4'-C1'-N9	8.04	114.63	108.20
26	BB	1888	G	N3-C4-C5	-8.04	124.58	128.60
26	BB	2357	G	O4'-C1'-N9	8.04	114.63	108.20
1	AA	407	U	O4'-C1'-N1	8.04	114.63	108.20
1	AA	502	A	C5-C6-N1	8.04	121.72	117.70
1	AA	616	G	C6-N1-C2	-8.04	120.28	125.10
1	AA	891	U	O4'-C1'-N1	8.04	114.63	108.20
1	AA	1367	C	N3-C2-O2	-8.04	116.28	121.90
17	AQ	58	ARG	NE-CZ-NH2	-8.04	116.28	120.30
26	BB	1088	A	C3'-C2'-C1'	8.04	107.93	101.50
26	BB	283	G	C4-C5-N7	-8.03	107.59	110.80
26	BB	755	U	O4'-C1'-N1	8.03	114.63	108.20
26	BB	1512	C	O4'-C4'-C3'	-8.04	95.97	104.00
26	BB	1846	G	C5-N7-C8	8.03	108.32	104.30
26	BB	1849	G	C4-C5-N7	-8.03	107.59	110.80
1	AA	936	C	C4-C5-C6	-8.03	113.38	117.40
1	AA	1109	C	N1-C2-O2	8.03	123.72	118.90
7	AG	52	VAL	CA-CB-CG2	8.03	122.95	110.90
26	BB	658	U	N3-C2-O2	-8.03	116.58	122.20
26	BB	737	C	C5-C4-N4	-8.03	114.58	120.20
26	BB	737	C	O4'-C1'-N1	8.03	114.62	108.20
26	BB	1765	U	C2-N3-C4	8.03	131.82	127.00
26	BB	2115	G	N3-C4-C5	-8.03	124.58	128.60
26	BB	2636	C	C6-N1-C2	8.03	123.51	120.30
1	AA	1156	G	C3'-C2'-C1'	-8.03	95.08	101.50
1	AA	1505	G	N1-C2-N3	-8.03	119.08	123.90
26	BB	151	C	C2-N3-C4	-8.03	115.89	119.90
1	AA	725	G	O4'-C1'-N9	8.03	114.62	108.20
25	BA	44	G	C1'-O4'-C4'	-8.03	103.48	109.90
26	BB	913	U	O4'-C1'-N1	8.03	114.62	108.20
1	AA	195	A	C5'-C4'-O4'	8.03	118.73	109.10
1	AA	299	G	C4-C5-N7	-8.03	107.59	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	856	G	C6-C5-N7	-8.03	125.58	130.40
1	AA	842	U	N3-C4-O4	8.03	125.02	119.40
26	BB	1382	G	O4'-C1'-N9	8.03	114.62	108.20
26	BB	1977	A	C4-C5-C6	-8.03	112.99	117.00
26	BB	2306	C	N3-C2-O2	-8.03	116.28	121.90
26	BB	2526	G	O4'-C1'-N9	-8.03	101.78	108.20
26	BB	2718	G	C8-N9-C4	-8.03	103.19	106.40
1	AA	475	C	O4'-C4'-C3'	8.02	112.52	106.10
1	AA	1120	C	N1-C2-O2	8.02	123.71	118.90
1	AA	1187	G	C5-C6-N1	8.02	115.51	111.50
1	AA	1253	G	N1-C6-O6	-8.02	115.09	119.90
2	AB	35	C	C6-N1-C2	-8.02	117.09	120.30
26	BB	733	G	C6-C5-N7	8.02	135.21	130.40
26	BB	947	A	O4'-C1'-N9	8.02	114.62	108.20
26	BB	1737	G	N3-C4-N9	-8.02	121.19	126.00
1	AA	452	A	N7-C8-N9	8.02	117.81	113.80
1	AA	959	A	O4'-C1'-N9	8.02	114.62	108.20
1	AA	1235	U	N1-C2-O2	-8.02	117.19	122.80
1	AA	1438	G	N1-C2-N3	-8.02	119.09	123.90
57	B6	44	ARG	NE-CZ-NH2	8.02	124.31	120.30
25	BA	77	U	O4'-C1'-N1	8.02	114.62	108.20
26	BB	322	A	C8-N9-C4	-8.02	102.59	105.80
26	BB	1126	A	C4-C5-C6	-8.02	112.99	117.00
26	BB	2064	C	O4'-C1'-N1	8.02	114.62	108.20
1	AA	191	G	C4'-C3'-C2'	-8.02	94.58	102.60
1	AA	552	U	N3-C2-O2	-8.02	116.59	122.20
1	AA	829	G	C4'-C3'-C2'	-8.02	94.58	102.60
1	AA	960	U	N1-C2-N3	8.02	119.71	114.90
2	AB	23	A	N1-C6-N6	8.02	123.41	118.60
26	BB	1950	G	C3'-C2'-C1'	8.02	107.92	101.50
1	AA	1327	C	N3-C4-N4	8.02	123.61	118.00
25	BA	23	G	C8-N9-C4	-8.02	103.19	106.40
25	BA	79	G	N9-C4-C5	8.02	108.61	105.40
26	BB	184	C	C4'-C3'-C2'	-8.02	94.58	102.60
26	BB	376	G	N9-C1'-C2'	-8.02	103.18	112.00
26	BB	849	A	N1-C6-N6	-8.02	113.79	118.60
26	BB	942	G	C5-C6-N1	8.02	115.51	111.50
26	BB	1081	U	C4-C5-C6	8.02	124.51	119.70
26	BB	1341	G	C5-C6-N1	8.02	115.51	111.50
26	BB	1677	A	C6-N1-C2	8.02	123.41	118.60
26	BB	2473	U	C3'-C2'-C1'	8.02	107.92	101.50
26	BB	2731	G	C4-C5-N7	-8.02	107.59	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BO	91	TYR	CG-CD2-CE2	8.02	127.72	121.30
1	AA	142	G	C1'-O4'-C4'	-8.02	103.49	109.90
25	BA	63	C	N1-C2-O2	-8.02	114.09	118.90
26	BB	71	A	N1-C2-N3	-8.02	125.29	129.30
26	BB	151	C	N3-C4-C5	8.02	125.11	121.90
26	BB	706	A	C2-N3-C4	8.02	114.61	110.60
26	BB	881	G	C2-N3-C4	8.02	115.91	111.90
26	BB	1311	G	C6-C5-N7	-8.02	125.59	130.40
26	BB	1807	G	O4'-C1'-N9	8.02	114.61	108.20
26	BB	2482	A	O4'-C1'-N9	-8.02	101.79	108.20
26	BB	2611	C	N3-C4-C5	-8.02	118.69	121.90
26	BB	2751	G	C2-N3-C4	8.02	115.91	111.90
26	BB	1073	A	C6-C5-N7	8.01	137.91	132.30
26	BB	2198	A	O4'-C1'-N9	8.01	114.61	108.20
1	AA	940	C	N3-C2-O2	-8.01	116.29	121.90
6	AF	178	ARG	NH1-CZ-NH2	8.01	128.22	119.40
26	BB	1202	G	O4'-C1'-N9	8.01	114.61	108.20
26	BB	1930	G	N9-C4-C5	8.01	108.61	105.40
26	BB	2619	C	C6-N1-C2	-8.01	117.09	120.30
1	AA	979	C	C3'-C2'-C1'	8.01	107.91	101.50
26	BB	2757	A	O4'-C1'-N9	8.01	114.61	108.20
26	BB	2790	U	C2-N3-C4	-8.01	122.19	127.00
1	AA	1202	U	C5'-C4'-O4'	8.01	118.71	109.10
2	AB	62	U	N3-C4-O4	8.01	125.01	119.40
1	AA	305	G	C6-N1-C2	-8.01	120.30	125.10
1	AA	445	G	O4'-C1'-N9	8.01	114.61	108.20
4	AD	20	G	C8-N9-C4	-8.01	103.20	106.40
26	BB	527	C	C5-C4-N4	-8.01	114.59	120.20
4	AD	23	G	N3-C4-C5	-8.01	124.60	128.60
26	BB	1755	A	N1-C2-N3	-8.01	125.30	129.30
26	BB	1985	C	C2-N3-C4	8.01	123.90	119.90
26	BB	2300	C	N3-C4-N4	8.01	123.61	118.00
26	BB	2834	G	C5-C6-O6	8.01	133.41	128.60
1	AA	260	G	C5-C6-O6	-8.00	123.80	128.60
1	AA	299	G	C1'-O4'-C4'	-8.00	103.50	109.90
26	BB	698	C	N1-C2-O2	8.00	123.70	118.90
26	BB	2837	A	C4'-C3'-C2'	-8.00	94.60	102.60
1	AA	1330	U	C5-C6-N1	-8.00	118.70	122.70
1	AA	1530	G	C3'-C2'-C1'	8.00	107.90	101.50
26	BB	1136	G	C8-N9-C4	-8.00	103.20	106.40
26	BB	1799	G	C5'-C4'-O4'	-8.00	99.50	109.10
26	BB	2549	G	C5-C6-O6	-8.00	123.80	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	57	G	N1-C2-N3	-8.00	119.10	123.90
1	AA	704	A	C6-C5-N7	8.00	137.90	132.30
1	AA	1480	A	C8-N9-C4	-8.00	102.60	105.80
2	AB	29	G	O4'-C1'-N9	8.00	114.60	108.20
26	BB	615	U	C1'-O4'-C4'	8.00	116.30	109.90
26	BB	2526	G	N1-C2-N3	-8.00	119.10	123.90
54	B3	30	ASP	CB-CG-OD1	-8.00	111.10	118.30
1	AA	939	G	C5'-C4'-O4'	8.00	118.70	109.10
1	AA	1336	C	C5-C4-N4	-8.00	114.60	120.20
1	AA	1461	G	C8-N9-C4	-8.00	103.20	106.40
1	AA	1464	U	N1-C2-N3	8.00	119.70	114.90
4	AD	30	G	C5-C6-N1	8.00	115.50	111.50
25	BA	85	G	C2-N3-C4	8.00	115.90	111.90
26	BB	397	U	N1-C2-N3	8.00	119.70	114.90
26	BB	2293	G	C6-N1-C2	-8.00	120.30	125.10
26	BB	2628	C	C5-C6-N1	8.00	125.00	121.00
2	AB	28	C	C2-N3-C4	8.00	123.90	119.90
26	BB	19	A	C3'-C2'-C1'	8.00	107.90	101.50
26	BB	1560	G	C5'-C4'-O4'	8.00	118.69	109.10
10	AJ	134	VAL	CA-CB-CG1	8.00	122.89	110.90
26	BB	2048	G	C5-C6-O6	-8.00	123.80	128.60
1	AA	26	A	C8-N9-C4	7.99	109.00	105.80
1	AA	40	C	O4'-C1'-N1	7.99	114.59	108.20
1	AA	303	A	C5-C6-N1	7.99	121.70	117.70
1	AA	636	U	C5-C4-O4	-7.99	121.10	125.90
1	AA	683	G	C5-C6-N1	7.99	115.50	111.50
4	AD	15	G	C5-N7-C8	7.99	108.30	104.30
9	AI	113	ARG	NE-CZ-NH2	-7.99	116.30	120.30
26	BB	104	A	N1-C6-N6	-7.99	113.80	118.60
26	BB	654	A	C4-C5-C6	-7.99	113.00	117.00
26	BB	1283	G	O4'-C1'-N9	7.99	114.59	108.20
26	BB	1396	U	C5-C6-N1	-7.99	118.70	122.70
26	BB	158	U	C5-C6-N1	7.99	126.70	122.70
1	AA	98	A	C4-C5-C6	-7.99	113.00	117.00
1	AA	338	A	N7-C8-N9	7.99	117.80	113.80
1	AA	930	C	N3-C4-N4	-7.99	112.41	118.00
1	AA	1463	U	N3-C4-O4	7.99	124.99	119.40
26	BB	1439	A	N7-C8-N9	7.99	117.80	113.80
26	BB	1453	A	O4'-C1'-C2'	7.99	114.79	107.60
26	BB	1700	A	C4-C5-N7	-7.99	106.70	110.70
1	AA	350	G	N1-C6-O6	7.99	124.69	119.90
1	AA	553	A	N3-C4-C5	-7.99	121.21	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	806	C	N3-C4-C5	-7.99	118.70	121.90
25	BA	13	G	C2-N3-C4	7.99	115.89	111.90
26	BB	190	A	C8-N9-C4	-7.99	102.60	105.80
26	BB	931	U	C5-C4-O4	-7.99	121.11	125.90
26	BB	1197	G	N3-C2-N2	-7.99	114.31	119.90
26	BB	1446	C	C6-N1-C2	7.99	123.50	120.30
26	BB	1159	U	C2-N3-C4	-7.99	122.21	127.00
1	AA	1486	G	N3-C4-C5	-7.99	124.61	128.60
1	AA	1536	C	N3-C4-N4	-7.99	112.41	118.00
26	BB	469	G	C6-C5-N7	7.99	135.19	130.40
26	BB	493	G	N3-C4-C5	-7.99	124.61	128.60
26	BB	647	G	C8-N9-C4	-7.99	103.21	106.40
26	BB	1451	C	C4'-C3'-C2'	7.99	110.59	102.60
26	BB	1931	U	O4'-C1'-N1	7.99	114.59	108.20
26	BB	2388	A	C5'-C4'-O4'	7.99	118.68	109.10
26	BB	2452	C	N1-C2-O2	7.99	123.69	118.90
1	AA	233	C	C4-C5-C6	7.98	121.39	117.40
1	AA	317	U	C2-N3-C4	-7.98	122.21	127.00
1	AA	968	A	C8-N9-C4	-7.98	102.61	105.80
26	BB	170	U	N1-C2-O2	7.98	128.39	122.80
1	AA	805	C	P-O3'-C3'	7.98	129.28	119.70
26	BB	430	A	C4-C5-C6	-7.98	113.01	117.00
26	BB	998	C	C5-C4-N4	-7.98	114.61	120.20
26	BB	1564	C	C6-N1-C2	-7.98	117.11	120.30
26	BB	2391	G	N9-C4-C5	7.98	108.59	105.40
1	AA	281	G	C3'-C2'-C1'	7.98	107.89	101.50
1	AA	452	A	C6-C5-N7	7.98	137.89	132.30
3	AC	43	U	C5-C4-O4	-7.98	121.11	125.90
26	BB	1659	G	O4'-C1'-N9	7.98	114.58	108.20
26	BB	1807	G	C5-N7-C8	-7.98	100.31	104.30
26	BB	2592	G	C4'-C3'-C2'	-7.98	94.62	102.60
1	AA	99	C	N3-C4-N4	7.98	123.58	118.00
1	AA	196	A	C5-C6-N1	7.98	121.69	117.70
4	AD	74	A	O4'-C1'-N9	7.98	114.58	108.20
8	AH	127	TYR	CB-CG-CD1	-7.98	116.21	121.00
26	BB	874	G	N7-C8-N9	-7.98	109.11	113.10
26	BB	1365	A	N1-C2-N3	-7.98	125.31	129.30
26	BB	2116	G	N9-C4-C5	7.98	108.59	105.40
26	BB	707	G	C4-C5-C6	7.98	123.59	118.80
26	BB	1209	U	C3'-C2'-C1'	-7.98	95.12	101.50
26	BB	1300	G	N9-C4-C5	-7.98	102.21	105.40
26	BB	2751	G	C5-C6-N1	7.98	115.49	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	380	G	C8-N9-C4	-7.97	103.21	106.40
26	BB	156	A	N9-C4-C5	7.97	108.99	105.80
26	BB	255	A	C6-N1-C2	-7.97	113.81	118.60
26	BB	637	A	O4'-C1'-N9	7.97	114.58	108.20
26	BB	913	U	C5-C4-O4	-7.97	121.12	125.90
26	BB	2394	C	O4'-C1'-N1	7.97	114.58	108.20
26	BB	2418	A	C4-C5-N7	-7.97	106.71	110.70
1	AA	901	A	N3-C4-C5	-7.97	121.22	126.80
26	BB	15	G	C4-C5-N7	-7.97	107.61	110.80
26	BB	1071	G	C2-N3-C4	7.97	115.89	111.90
26	BB	1500	G	N3-C2-N2	-7.97	114.32	119.90
26	BB	1746	A	C6-N1-C2	7.97	123.38	118.60
26	BB	2383	G	C4-C5-N7	-7.97	107.61	110.80
1	AA	145	G	N1-C6-O6	-7.97	115.12	119.90
1	AA	587	G	C8-N9-C4	-7.97	103.21	106.40
1	AA	1392	G	O4'-C4'-C3'	7.97	112.48	106.10
26	BB	1743	G	N9-C4-C5	7.97	108.59	105.40
1	AA	204	G	C5-C6-N1	7.97	115.48	111.50
1	AA	469	C	O4'-C1'-N1	7.97	114.58	108.20
1	AA	1103	C	N1-C2-O2	7.97	123.68	118.90
1	AA	1401	G	C5-C6-N1	7.97	115.48	111.50
1	AA	1453	G	N9-C1'-C2'	-7.97	103.23	112.00
3	AC	42	U	O4'-C1'-C2'	-7.97	97.83	105.80
25	BA	36	C	O4'-C4'-C3'	-7.97	96.03	104.00
25	BA	116	G	N3-C2-N2	-7.97	114.32	119.90
26	BB	10	A	O4'-C1'-N9	7.97	114.58	108.20
26	BB	339	U	N3-C2-O2	-7.97	116.62	122.20
26	BB	412	A	C5-C6-N1	7.97	121.69	117.70
26	BB	891	G	N9-C1'-C2'	-7.97	103.23	112.00
26	BB	1322	A	C5'-C4'-O4'	7.97	118.66	109.10
26	BB	1449	G	O4'-C1'-N9	7.97	114.58	108.20
26	BB	2087	G	C8-N9-C4	-7.97	103.21	106.40
26	BB	2340	A	N9-C1'-C2'	-7.97	103.23	112.00
1	AA	6	G	N1-C2-N2	7.97	123.37	116.20
26	BB	263	G	C8-N9-C4	-7.97	103.21	106.40
26	BB	591	U	O4'-C1'-N1	7.97	114.57	108.20
26	BB	1952	A	N3-C4-C5	7.97	132.38	126.80
1	AA	291	U	O4'-C1'-N1	7.97	114.57	108.20
1	AA	901	A	N1-C2-N3	-7.97	125.32	129.30
1	AA	1026	G	N7-C8-N9	7.97	117.08	113.10
1	AA	1198	G	O4'-C1'-N9	7.97	114.57	108.20
26	BB	487	C	C2-N3-C4	7.97	123.88	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	605	G	C2-N3-C4	7.97	115.88	111.90
26	BB	713	G	C4-C5-N7	-7.97	107.61	110.80
26	BB	1348	C	N1-C2-N3	-7.97	113.62	119.20
26	BB	1774	C	N1-C2-N3	-7.97	113.62	119.20
26	BB	1897	G	N3-C4-C5	-7.97	124.62	128.60
26	BB	2455	G	C5-C6-N1	7.97	115.48	111.50
4	AD	49	C	O4'-C1'-N1	7.96	114.57	108.20
25	BA	101	A	C5-C6-N1	7.96	121.68	117.70
26	BB	670	A	C3'-C2'-C1'	-7.96	95.13	101.50
26	BB	1707	G	N3-C4-C5	-7.96	124.62	128.60
26	BB	2106	U	C2-N3-C4	-7.96	122.22	127.00
26	BB	2385	C	N1-C2-O2	7.96	123.68	118.90
26	BB	434	U	N3-C2-O2	-7.96	116.63	122.20
26	BB	875	G	C3'-C2'-C1'	-7.96	95.13	101.50
26	BB	915	C	N1-C2-O2	7.96	123.68	118.90
1	AA	76	G	C5-N7-C8	-7.96	100.32	104.30
1	AA	1254	A	N1-C2-N3	-7.96	125.32	129.30
1	AA	1260	G	O4'-C1'-N9	7.96	114.57	108.20
2	AB	43	G	N1-C2-N3	7.96	128.68	123.90
7	AG	134	TYR	CB-CG-CD2	-7.96	116.22	121.00
25	BA	26	C	N3-C4-C5	-7.96	118.72	121.90
25	BA	75	G	C5'-C4'-C3'	7.96	128.74	116.00
25	BA	120	U	O4'-C1'-N1	7.96	114.57	108.20
26	BB	787	C	C4'-C3'-C2'	-7.96	94.64	102.60
26	BB	1231	U	O4'-C1'-N1	7.96	114.57	108.20
26	BB	1301	A	C5-N7-C8	7.96	107.88	103.90
26	BB	1473	G	C6-C5-N7	-7.96	125.62	130.40
26	BB	2886	A	C5-C6-N1	-7.96	113.72	117.70
1	AA	575	G	C6-C5-N7	7.96	135.18	130.40
26	BB	378	C	C5-C6-N1	7.96	124.98	121.00
1	AA	1246	A	N1-C6-N6	-7.96	113.83	118.60
4	AD	10	G	N9-C4-C5	7.96	108.58	105.40
26	BB	119	A	O4'-C1'-N9	7.96	114.57	108.20
26	BB	481	G	N7-C8-N9	7.96	117.08	113.10
26	BB	514	A	C8-N9-C4	7.96	108.98	105.80
1	AA	23	C	N3-C4-C5	7.96	125.08	121.90
1	AA	1080	A	C2-N3-C4	7.96	114.58	110.60
26	BB	1291	C	C6-N1-C2	-7.96	117.12	120.30
26	BB	1522	A	N9-C4-C5	7.96	108.98	105.80
26	BB	2475	C	C6-N1-C2	-7.96	117.12	120.30
26	BB	973	A	N3-C4-C5	-7.96	121.23	126.80
26	BB	1929	G	N3-C4-N9	7.96	130.77	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2054	A	C5-C6-N1	7.96	121.68	117.70
1	AA	42	G	N1-C2-N3	-7.95	119.13	123.90
1	AA	517	G	C6-C5-N7	7.95	135.17	130.40
1	AA	1051	C	N3-C2-O2	-7.95	116.33	121.90
26	BB	1541	C	C5'-C4'-C3'	-7.95	103.27	116.00
26	BB	2603	G	C8-N9-C4	-7.95	103.22	106.40
26	BB	372	G	O4'-C1'-N9	7.95	114.56	108.20
26	BB	2750	A	C5-N7-C8	-7.95	99.92	103.90
1	AA	395	C	N3-C2-O2	-7.95	116.33	121.90
26	BB	469	G	N3-C4-C5	-7.95	124.62	128.60
26	BB	708	G	C8-N9-C4	-7.95	103.22	106.40
26	BB	781	A	C6-N1-C2	-7.95	113.83	118.60
26	BB	1459	G	C4-C5-N7	7.95	113.98	110.80
26	BB	1711	A	C5'-C4'-C3'	-7.95	103.28	116.00
40	BP	67	PHE	CB-CG-CD2	-7.95	115.23	120.80
26	BB	933	A	C4-C5-N7	7.95	114.67	110.70
26	BB	1164	C	N3-C4-N4	-7.95	112.44	118.00
26	BB	2001	C	O4'-C1'-N1	7.95	114.56	108.20
26	BB	2100	G	C8-N9-C4	-7.95	103.22	106.40
26	BB	2311	A	N1-C6-N6	-7.95	113.83	118.60
26	BB	2325	G	C5-N7-C8	7.95	108.27	104.30
26	BB	2708	G	C4-C5-C6	7.95	123.57	118.80
26	BB	217	A	N9-C4-C5	7.95	108.98	105.80
26	BB	1133	A	C2-N3-C4	-7.95	106.63	110.60
26	BB	1387	A	N9-C4-C5	7.95	108.98	105.80
26	BB	2262	U	N3-C2-O2	-7.95	116.64	122.20
26	BB	2410	G	N3-C4-N9	-7.95	121.23	126.00
1	AA	7	A	C4-C5-C6	-7.95	113.03	117.00
1	AA	1012	A	N9-C1'-C2'	-7.95	103.26	112.00
26	BB	329	G	N3-C2-N2	-7.95	114.34	119.90
26	BB	382	A	N1-C6-N6	-7.95	113.83	118.60
26	BB	918	A	N9-C1'-C2'	-7.95	103.26	112.00
26	BB	1494	A	C2-N3-C4	7.95	114.57	110.60
1	AA	992	U	C5-C6-N1	-7.94	118.73	122.70
26	BB	1260	A	N9-C1'-C2'	-7.94	103.26	112.00
26	BB	1350	C	C4-C5-C6	7.94	121.37	117.40
26	BB	1569	A	O4'-C1'-N9	7.94	114.56	108.20
26	BB	2275	C	N1-C2-N3	7.94	124.76	119.20
26	BB	1277	G	C5-C6-N1	7.94	115.47	111.50
26	BB	1489	C	C3'-C2'-C1'	-7.94	95.15	101.50
26	BB	2764	A	C4-C5-C6	7.94	120.97	117.00
26	BB	2844	G	N7-C8-N9	7.94	117.07	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	30	G	N3-C2-N2	-7.94	114.34	119.90
26	BB	260	G	C1'-O4'-C4'	-7.94	103.55	109.90
26	BB	320	A	N7-C8-N9	7.94	117.77	113.80
26	BB	2144	G	C5-C6-O6	-7.94	123.83	128.60
26	BB	2648	G	C8-N9-C4	-7.94	103.22	106.40
49	BY	13	ARG	NE-CZ-NH1	7.94	124.27	120.30
26	BB	535	G	C5-C6-O6	-7.94	123.84	128.60
26	BB	559	G	N7-C8-N9	7.94	117.07	113.10
26	BB	826	U	C4-C5-C6	7.94	124.46	119.70
26	BB	991	C	O4'-C1'-N1	7.94	114.55	108.20
26	BB	1404	C	N3-C2-O2	-7.94	116.34	121.90
26	BB	1867	G	C5-C6-O6	7.94	133.36	128.60
32	BH	45	ALA	CB-CA-C	7.94	122.01	110.10
1	AA	1395	C	N3-C4-N4	7.94	123.56	118.00
26	BB	412	A	O4'-C1'-N9	7.94	114.55	108.20
26	BB	603	A	N9-C4-C5	7.94	108.97	105.80
26	BB	913	U	N3-C4-O4	7.94	124.96	119.40
26	BB	1242	U	N3-C2-O2	-7.94	116.64	122.20
26	BB	1820	U	O4'-C1'-N1	7.94	114.55	108.20
26	BB	1996	C	N1-C2-O2	7.94	123.66	118.90
26	BB	2117	A	C2-N3-C4	7.94	114.57	110.60
26	BB	2118	U	C1'-O4'-C4'	-7.94	103.55	109.90
26	BB	2576	G	C6-N1-C2	-7.94	120.34	125.10
26	BB	2625	G	N3-C4-C5	-7.94	124.63	128.60
1	AA	1108	G	N3-C4-N9	-7.94	121.24	126.00
26	BB	997	G	C2-N3-C4	7.94	115.87	111.90
26	BB	2218	G	N3-C4-C5	-7.94	124.63	128.60
1	AA	269	C	N3-C2-O2	-7.93	116.35	121.90
1	AA	737	C	O4'-C1'-N1	7.93	114.55	108.20
4	AD	7	G	O4'-C4'-C3'	7.93	112.45	106.10
26	BB	750	A	C3'-C2'-C1'	7.93	107.85	101.50
26	BB	974	G	N3-C4-N9	7.93	130.76	126.00
26	BB	1314	C	C5-C4-N4	-7.93	114.65	120.20
26	BB	1625	C	C5-C4-N4	-7.93	114.64	120.20
1	AA	815	A	C5-C6-N1	7.93	121.67	117.70
26	BB	504	A	C8-N9-C4	-7.93	102.63	105.80
26	BB	1174	U	N3-C4-C5	-7.93	109.84	114.60
45	BU	88	ARG	NE-CZ-NH2	7.93	124.27	120.30
1	AA	1081	A	C3'-C2'-C1'	-7.93	95.16	101.50
26	BB	1163	G	O4'-C1'-N9	7.93	114.55	108.20
26	BB	2138	G	N3-C2-N2	-7.93	114.35	119.90
26	BB	2361	G	C2-N3-C4	7.93	115.87	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2442	C	C3'-C2'-C1'	7.93	107.84	101.50
26	BB	2544	G	N3-C4-C5	-7.93	124.64	128.60
1	AA	408	A	N9-C4-C5	7.93	108.97	105.80
1	AA	709	U	N3-C2-O2	-7.93	116.65	122.20
1	AA	873	A	C2-N3-C4	7.93	114.56	110.60
1	AA	1003	G	N3-C2-N2	-7.93	114.35	119.90
1	AA	1278	G	C3'-C2'-C1'	7.93	107.84	101.50
25	BA	34	A	N1-C2-N3	7.93	133.26	129.30
26	BB	717	C	N3-C4-C5	-7.93	118.73	121.90
26	BB	1694	C	C6-N1-C2	7.93	123.47	120.30
26	BB	1961	C	C5'-C4'-O4'	7.93	118.62	109.10
26	BB	2736	A	C4-C5-C6	-7.93	113.03	117.00
2	AB	40	C	N1-C2-N3	7.93	124.75	119.20
26	BB	2264	C	N3-C2-O2	-7.93	116.35	121.90
26	BB	2642	G	C6-N1-C2	-7.93	120.34	125.10
1	AA	119	A	C8-N9-C4	-7.93	102.63	105.80
1	AA	1486	G	C5-N7-C8	7.93	108.26	104.30
25	BA	19	C	C6-N1-C2	-7.93	117.13	120.30
26	BB	334	C	C5-C4-N4	7.93	125.75	120.20
26	BB	813	U	N3-C4-C5	-7.93	109.84	114.60
26	BB	1222	U	O4'-C1'-N1	7.93	114.54	108.20
26	BB	1532	A	C5-N7-C8	-7.93	99.94	103.90
26	BB	1584	U	O4'-C1'-N1	7.93	114.54	108.20
26	BB	1793	C	C4'-C3'-C2'	-7.93	94.67	102.60
1	AA	586	C	N3-C2-O2	-7.92	116.35	121.90
4	AD	46	G	N9-C1'-C2'	-7.92	103.28	112.00
26	BB	241	A	P-O3'-C3'	7.92	129.21	119.70
26	BB	370	G	C2-N3-C4	7.92	115.86	111.90
26	BB	1693	U	N3-C4-O4	7.92	124.95	119.40
26	BB	2226	C	O4'-C1'-N1	7.92	114.54	108.20
1	AA	1390	U	N3-C4-O4	-7.92	113.85	119.40
26	BB	804	A	C2-N3-C4	7.92	114.56	110.60
1	AA	1236	A	N9-C1'-C2'	-7.92	103.29	112.00
4	AD	74	A	N9-C4-C5	-7.92	102.63	105.80
21	AU	7	ARG	NE-CZ-NH2	7.92	124.26	120.30
25	BA	106	G	N3-C4-N9	7.92	130.75	126.00
26	BB	1444	G	C5-C6-O6	7.92	133.35	128.60
26	BB	2744	G	C8-N9-C4	-7.92	103.23	106.40
1	AA	616	G	C1'-O4'-C4'	-7.92	103.56	109.90
1	AA	796	C	N3-C4-C5	-7.92	118.73	121.90
26	BB	787	C	C3'-C2'-C1'	7.92	107.84	101.50
26	BB	1142	A	C6-N1-C2	7.92	123.35	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1186	G	N3-C2-N2	7.92	125.44	119.90
26	BB	2641	G	O4'-C1'-N9	7.92	114.54	108.20
1	AA	1032	G	C4-C5-N7	-7.92	107.63	110.80
1	AA	1065	U	N1-C1'-C2'	7.92	124.29	114.00
1	AA	1093	A	N3-C4-C5	-7.92	121.26	126.80
26	BB	295	G	C6-N1-C2	-7.92	120.35	125.10
26	BB	1210	G	N3-C2-N2	7.92	125.44	119.90
26	BB	2019	A	C2'-C3'-O3'	7.92	126.92	109.50
26	BB	2446	G	C8-N9-C4	-7.92	103.23	106.40
26	BB	2861	U	C2-N3-C4	-7.92	122.25	127.00
1	AA	697	U	C5'-C4'-O4'	7.92	118.60	109.10
1	AA	1144	G	C4'-C3'-C2'	-7.92	94.68	102.60
26	BB	227	A	N9-C4-C5	-7.92	102.63	105.80
26	BB	1131	G	N7-C8-N9	7.92	117.06	113.10
1	AA	900	A	N7-C8-N9	7.92	117.76	113.80
3	AC	46	C	C2-N3-C4	7.92	123.86	119.90
1	AA	566	G	N3-C4-C5	-7.91	124.64	128.60
1	AA	1375	A	N1-C6-N6	-7.91	113.85	118.60
25	BA	117	G	N3-C2-N2	-7.91	114.36	119.90
26	BB	595	C	C6-N1-C2	-7.91	117.13	120.30
26	BB	1486	U	C4-C5-C6	7.91	124.45	119.70
26	BB	2372	U	O4'-C1'-N1	7.91	114.53	108.20
26	BB	2477	U	C6-N1-C2	-7.91	116.25	121.00
33	BI	91	PHE	CB-CG-CD1	-7.91	115.26	120.80
26	BB	2067	G	O4'-C4'-C3'	7.91	112.43	106.10
26	BB	2873	A	O4'-C1'-N9	7.91	114.53	108.20
1	AA	154	U	C5-C6-N1	-7.91	118.74	122.70
1	AA	688	G	C5-C6-O6	-7.91	123.85	128.60
1	AA	934	C	N3-C2-O2	7.91	127.44	121.90
26	BB	695	G	C2-N3-C4	7.91	115.86	111.90
26	BB	1254	A	N9-C4-C5	-7.91	102.64	105.80
26	BB	2410	G	N3-C2-N2	7.91	125.44	119.90
26	BB	2534	A	N9-C4-C5	-7.91	102.64	105.80
26	BB	2602	A	N7-C8-N9	7.91	117.75	113.80
1	AA	649	A	N1-C6-N6	-7.91	113.86	118.60
26	BB	1284	A	C6-C5-N7	-7.91	126.77	132.30
26	BB	1387	A	C8-N9-C4	-7.91	102.64	105.80
26	BB	1923	U	O4'-C1'-N1	7.91	114.53	108.20
26	BB	2799	A	C4-C5-C6	7.91	120.95	117.00
26	BB	2814	A	C6-C5-N7	7.91	137.84	132.30
1	AA	1534	A	C4-C5-C6	7.91	120.95	117.00
26	BB	235	U	O4'-C1'-N1	7.91	114.53	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	BD	68	ARG	NH1-CZ-NH2	-7.91	110.70	119.40
1	AA	199	A	C6-N1-C2	-7.91	113.86	118.60
1	AA	581	G	O4'-C1'-N9	-7.91	101.88	108.20
1	AA	1198	G	N9-C4-C5	7.91	108.56	105.40
1	AA	1266	G	C5-C6-N1	7.91	115.45	111.50
1	AA	1410	A	O4'-C1'-N9	7.91	114.52	108.20
25	BA	56	G	N3-C4-C5	-7.91	124.65	128.60
25	BA	116	G	C8-N9-C4	-7.91	103.24	106.40
26	BB	47	C	N3-C4-N4	7.91	123.53	118.00
26	BB	998	C	N3-C4-N4	7.91	123.53	118.00
26	BB	2133	G	C5-C6-N1	7.91	115.45	111.50
26	BB	2415	G	C2-N3-C4	7.91	115.85	111.90
26	BB	2660	A	C8-N9-C4	-7.91	102.64	105.80
26	BB	2778	A	O4'-C1'-N9	7.91	114.53	108.20
47	BW	6	ARG	NE-CZ-NH1	7.91	124.25	120.30
26	BB	628	G	N3-C4-N9	-7.90	121.26	126.00
26	BB	971	G	C4-C5-C6	7.90	123.54	118.80
26	BB	1606	C	C4'-C3'-C2'	-7.90	94.70	102.60
26	BB	2831	G	O4'-C1'-N9	7.90	114.52	108.20
1	AA	504	C	C2-N3-C4	-7.90	115.95	119.90
1	AA	626	G	C3'-C2'-C1'	7.90	107.82	101.50
1	AA	743	A	C5'-C4'-O4'	7.90	118.58	109.10
1	AA	1444	U	O4'-C1'-N1	7.90	114.52	108.20
25	BA	84	G	C8-N9-C4	-7.90	103.24	106.40
26	BB	1436	G	O4'-C1'-N9	7.90	114.52	108.20
1	AA	329	A	N9-C4-C5	7.90	108.96	105.80
1	AA	585	G	N3-C4-C5	-7.90	124.65	128.60
26	BB	472	A	N1-C2-N3	-7.90	125.35	129.30
26	BB	593	U	C5-C6-N1	7.90	126.65	122.70
26	BB	740	C	N3-C4-C5	7.90	125.06	121.90
26	BB	2500	U	C5-C6-N1	-7.90	118.75	122.70
26	BB	2760	C	N1-C2-N3	-7.90	113.67	119.20
2	AB	45	U	O4'-C1'-N1	7.90	114.52	108.20
26	BB	1042	G	C4'-C3'-C2'	-7.90	94.70	102.60
26	BB	1382	G	C8-N9-C4	-7.90	103.24	106.40
1	AA	449	G	N3-C2-N2	7.90	125.43	119.90
4	AD	67	C	C2-N3-C4	7.90	123.85	119.90
25	BA	71	C	N1-C2-O2	7.90	123.64	118.90
26	BB	116	C	C3'-C2'-C1'	7.90	107.82	101.50
26	BB	465	G	C5'-C4'-O4'	7.90	118.58	109.10
26	BB	1253	A	C8-N9-C4	-7.90	102.64	105.80
26	BB	2321	U	N1-C2-N3	7.90	119.64	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2839	G	N3-C2-N2	7.90	125.43	119.90
34	BJ	75	PHE	CB-CG-CD2	-7.90	115.27	120.80
1	AA	1020	G	C5-N7-C8	-7.90	100.35	104.30
1	AA	1508	A	C1'-O4'-C4'	-7.90	103.58	109.90
26	BB	142	A	C3'-C2'-C1'	7.90	107.82	101.50
26	BB	972	A	C8-N9-C4	-7.90	102.64	105.80
26	BB	1341	G	C3'-C2'-C1'	-7.90	95.18	101.50
26	BB	2296	U	C6-N1-C2	-7.90	116.26	121.00
1	AA	228	A	C2-N3-C4	7.89	114.55	110.60
1	AA	569	C	C5-C6-N1	-7.89	117.05	121.00
1	AA	792	A	N1-C2-N3	-7.89	125.35	129.30
26	BB	2426	A	C3'-C2'-C1'	-7.89	95.18	101.50
26	BB	2601	C	N3-C4-N4	7.89	123.53	118.00
26	BB	2644	G	C1'-O4'-C4'	-7.89	103.58	109.90
1	AA	203	G	C5-N7-C8	-7.89	100.35	104.30
1	AA	1072	G	N3-C4-C5	-7.89	124.65	128.60
1	AA	1106	G	C6-C5-N7	7.89	135.13	130.40
26	BB	117	G	C4-C5-N7	7.89	113.96	110.80
26	BB	2017	U	O4'-C1'-N1	7.89	114.51	108.20
26	BB	2098	U	O4'-C1'-N1	7.89	114.51	108.20
26	BB	2635	A	N1-C6-N6	-7.89	113.86	118.60
36	BL	95	ARG	NE-CZ-NH2	-7.89	116.35	120.30
49	BY	68	PHE	CB-CG-CD2	-7.89	115.28	120.80
26	BB	30	G	C5'-C4'-O4'	7.89	118.57	109.10
26	BB	1447	C	N3-C2-O2	-7.89	116.38	121.90
28	BD	203	VAL	CA-CB-CG1	7.89	122.74	110.90
1	AA	611	C	N3-C4-C5	7.89	125.06	121.90
26	BB	363	G	C8-N9-C4	-7.89	103.24	106.40
26	BB	555	G	C3'-C2'-C1'	7.89	107.81	101.50
26	BB	949	G	C4-C5-C6	7.89	123.53	118.80
26	BB	1033	U	O4'-C1'-C2'	-7.89	97.91	105.80
26	BB	1155	A	O4'-C1'-N9	-7.89	101.89	108.20
26	BB	1634	A	O4'-C1'-N9	-7.89	101.89	108.20
26	BB	1747	U	O4'-C1'-N1	7.89	114.51	108.20
26	BB	2278	A	C2-N3-C4	7.89	114.54	110.60
26	BB	2359	C	N3-C4-C5	7.89	125.06	121.90
1	AA	1198	G	C8-N9-C4	-7.89	103.25	106.40
25	BA	105	G	N1-C2-N3	-7.89	119.17	123.90
26	BB	1128	G	C3'-C2'-C1'	-7.89	95.19	101.50
26	BB	2216	G	C6-N1-C2	-7.89	120.37	125.10
26	BB	2724	U	N1-C2-N3	7.89	119.63	114.90
1	AA	412	A	O4'-C1'-N9	7.89	114.51	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1047	G	C5-N7-C8	-7.89	100.36	104.30
1	AA	1187	G	C6-N1-C2	-7.89	120.37	125.10
26	BB	662	G	C2-N3-C4	7.89	115.84	111.90
26	BB	761	A	N3-C4-C5	-7.89	121.28	126.80
26	BB	912	C	C2-N3-C4	7.89	123.84	119.90
26	BB	964	C	C1'-O4'-C4'	-7.89	103.59	109.90
26	BB	2054	A	N3-C4-C5	7.89	132.32	126.80
26	BB	2081	U	C4'-C3'-C2'	-7.89	94.71	102.60
1	AA	75	G	C5-C6-N1	-7.88	107.56	111.50
26	BB	1285	A	C5-C6-N1	7.88	121.64	117.70
26	BB	1410	G	O4'-C4'-C3'	7.88	112.41	106.10
26	BB	1473	G	C8-N9-C4	-7.88	103.25	106.40
26	BB	2288	A	C8-N9-C4	-7.88	102.65	105.80
26	BB	2596	U	N1-C2-N3	7.88	119.63	114.90
26	BB	538	A	N1-C6-N6	-7.88	113.87	118.60
26	BB	560	C	C4'-C3'-C2'	-7.88	94.72	102.60
26	BB	878	A	C4'-C3'-C2'	-7.88	94.72	102.60
26	BB	980	A	N1-C2-N3	7.88	133.24	129.30
1	AA	172	A	N7-C8-N9	-7.88	109.86	113.80
1	AA	476	U	N3-C4-C5	-7.88	109.87	114.60
1	AA	681	A	C4-C5-N7	7.88	114.64	110.70
1	AA	865	A	C1'-O4'-C4'	-7.88	103.59	109.90
1	AA	547	A	C3'-C2'-C1'	7.88	107.80	101.50
1	AA	589	U	C4'-C3'-C2'	-7.88	94.72	102.60
1	AA	151	A	O4'-C1'-N9	7.88	114.50	108.20
1	AA	464	U	C5'-C4'-O4'	7.88	118.56	109.10
1	AA	539	A	N1-C6-N6	-7.88	113.87	118.60
1	AA	906	A	C4-C5-N7	7.88	114.64	110.70
1	AA	1012	A	C5-C6-N1	7.88	121.64	117.70
22	AV	40	PHE	CB-CG-CD1	7.88	126.31	120.80
26	BB	1436	G	C2-N3-C4	7.88	115.84	111.90
26	BB	1493	C	C2-N3-C4	7.88	123.84	119.90
26	BB	2403	C	N1-C2-O2	7.88	123.63	118.90
1	AA	317	U	P-O3'-C3'	7.88	129.15	119.70
26	BB	1428	C	O3'-P-O5'	-7.88	89.03	104.00
1	AA	1281	C	N1-C2-O2	7.87	123.62	118.90
1	AA	1283	U	C3'-C2'-C1'	7.87	107.80	101.50
1	AA	1357	A	C8-N9-C4	-7.87	102.65	105.80
25	BA	9	G	N7-C8-N9	7.87	117.04	113.10
25	BA	91	C	O4'-C1'-N1	7.87	114.50	108.20
26	BB	1416	G	P-O3'-C3'	7.87	129.15	119.70
26	BB	1843	C	C4-C5-C6	7.87	121.34	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2708	G	O4'-C1'-N9	7.87	114.50	108.20
1	AA	536	C	C4-C5-C6	-7.87	113.46	117.40
16	AP	69	ARG	NE-CZ-NH1	7.87	124.23	120.30
26	BB	2158	A	N3-C4-C5	7.87	132.31	126.80
26	BB	2869	G	C5-C6-O6	-7.87	123.88	128.60
1	AA	475	C	C3'-C2'-C1'	7.87	107.80	101.50
25	BA	71	C	C1'-O4'-C4'	7.87	116.20	109.90
26	BB	520	G	N1-C2-N3	7.87	128.62	123.90
26	BB	743	A	C6-N1-C2	-7.87	113.88	118.60
1	AA	987	G	N3-C4-N9	-7.87	121.28	126.00
1	AA	1026	G	C5-C6-N1	-7.87	107.57	111.50
1	AA	1375	A	N1-C2-N3	7.87	133.24	129.30
26	BB	122	G	N1-C6-O6	7.87	124.62	119.90
26	BB	781	A	N1-C6-N6	-7.87	113.88	118.60
26	BB	1666	G	C4-C5-C6	-7.87	114.08	118.80
26	BB	1905	C	C2-N3-C4	-7.87	115.97	119.90
26	BB	2877	G	C4'-C3'-C2'	-7.87	94.73	102.60
1	AA	1111	A	N1-C6-N6	-7.87	113.88	118.60
4	AD	11	A	N1-C2-N3	-7.87	125.37	129.30
26	BB	781	A	O4'-C1'-N9	7.87	114.49	108.20
26	BB	2584	U	N1-C1'-C2'	-7.87	103.35	112.00
1	AA	227	G	C5-C6-O6	-7.87	123.88	128.60
1	AA	382	A	C2-N3-C4	7.87	114.53	110.60
1	AA	622	A	N7-C8-N9	7.87	117.73	113.80
26	BB	971	G	N3-C4-C5	-7.87	124.67	128.60
1	AA	480	U	N1-C2-N3	7.86	119.62	114.90
26	BB	736	C	C6-N1-C2	-7.86	117.16	120.30
26	BB	1028	A	C5-N7-C8	-7.86	99.97	103.90
26	BB	1838	C	C6-N1-C2	-7.86	117.15	120.30
26	BB	1987	A	C4-C5-C6	7.86	120.93	117.00
26	BB	2705	A	C8-N9-C4	-7.86	102.66	105.80
1	AA	1346	A	O4'-C1'-N9	7.86	114.49	108.20
26	BB	1245	G	C8-N9-C4	7.86	109.55	106.40
26	BB	2502	G	C6-N1-C2	-7.86	120.38	125.10
26	BB	698	C	N3-C2-O2	-7.86	116.40	121.90
26	BB	1644	C	O4'-C1'-N1	7.86	114.49	108.20
26	BB	2770	G	N1-C6-O6	-7.86	115.18	119.90
1	AA	695	A	C4-C5-N7	-7.86	106.77	110.70
26	BB	1154	G	C2-N3-C4	7.86	115.83	111.90
26	BB	2287	A	C4-C5-N7	-7.86	106.77	110.70
26	BB	2305	U	O4'-C1'-N1	7.86	114.49	108.20
1	AA	4	U	C5-C6-N1	-7.86	118.77	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	158	G	C8-N9-C4	-7.86	103.26	106.40
1	AA	229	U	C5-C4-O4	-7.86	121.19	125.90
1	AA	876	C	N3-C2-O2	-7.86	116.40	121.90
1	AA	1390	U	C2-N3-C4	-7.86	122.29	127.00
1	AA	1506	U	N3-C4-O4	7.86	124.90	119.40
25	BA	3	C	C5-C4-N4	-7.86	114.70	120.20
26	BB	212	G	O4'-C1'-N9	7.86	114.49	108.20
26	BB	915	C	C3'-C2'-C1'	7.86	107.79	101.50
26	BB	1171	G	N3-C4-N9	-7.86	121.28	126.00
26	BB	2325	G	C8-N9-C4	-7.86	103.26	106.40
1	AA	140	U	O4'-C1'-N1	7.86	114.48	108.20
1	AA	1015	G	C5-C6-N1	7.86	115.43	111.50
1	AA	1357	A	N9-C4-C5	7.86	108.94	105.80
26	BB	93	G	C6-C5-N7	-7.86	125.69	130.40
26	BB	429	A	N7-C8-N9	7.86	117.73	113.80
26	BB	2395	C	N3-C4-N4	7.86	123.50	118.00
1	AA	104	G	C4-C5-C6	-7.85	114.09	118.80
1	AA	573	A	N9-C4-C5	-7.85	102.66	105.80
1	AA	637	C	N1-C2-O2	7.85	123.61	118.90
1	AA	1161	C	C3'-C2'-C1'	7.85	107.78	101.50
26	BB	470	A	O4'-C1'-N9	7.85	114.48	108.20
26	BB	2232	C	N3-C4-N4	7.85	123.50	118.00
26	BB	2894	G	N3-C2-N2	-7.85	114.40	119.90
45	BU	95	ARG	NE-CZ-NH2	-7.85	116.37	120.30
1	AA	791	G	C5-N7-C8	7.85	108.23	104.30
1	AA	1352	C	C5-C6-N1	-7.85	117.07	121.00
26	BB	2048	G	C5-C6-N1	7.85	115.43	111.50
26	BB	2860	A	C6-N1-C2	-7.85	113.89	118.60
1	AA	863	U	N1-C2-N3	7.85	119.61	114.90
1	AA	1057	G	N3-C4-C5	-7.85	124.67	128.60
25	BA	14	U	C4-C5-C6	7.85	124.41	119.70
26	BB	1739	A	C2-N3-C4	7.85	114.53	110.60
26	BB	1833	C	C3'-C2'-C1'	-7.85	95.22	101.50
26	BB	1901	A	C8-N9-C4	-7.85	102.66	105.80
26	BB	2901	C	C4'-C3'-C2'	-7.85	94.75	102.60
1	AA	1221	G	C5-C6-N1	7.85	115.42	111.50
26	BB	858	G	C4-C5-C6	7.85	123.51	118.80
1	AA	254	G	N1-C2-N2	-7.85	109.14	116.20
1	AA	650	G	N3-C4-N9	7.85	130.71	126.00
1	AA	662	U	N1-C1'-C2'	-7.85	103.37	112.00
1	AA	1313	U	C5'-C4'-O4'	7.85	118.52	109.10
2	AB	41	C	N1-C2-N3	-7.85	113.71	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	846	U	O4'-C1'-N1	7.85	114.48	108.20
26	BB	2190	G	O4'-C1'-N9	7.85	114.48	108.20
26	BB	2240	U	N1-C2-N3	7.85	119.61	114.90
1	AA	808	C	N3-C4-C5	-7.85	118.76	121.90
1	AA	1464	U	C5-C4-O4	-7.84	121.19	125.90
25	BA	24	G	N3-C2-N2	7.84	125.39	119.90
26	BB	750	A	N1-C6-N6	7.84	123.31	118.60
1	AA	108	G	C5-N7-C8	-7.84	100.38	104.30
1	AA	827	U	C2-N3-C4	-7.84	122.30	127.00
26	BB	85	G	C2-N3-C4	7.84	115.82	111.90
26	BB	919	U	O4'-C1'-N1	7.84	114.47	108.20
26	BB	1758	U	N3-C4-C5	-7.84	109.90	114.60
26	BB	2062	A	O4'-C1'-N9	7.84	114.47	108.20
26	BB	2316	G	N1-C2-N2	-7.84	109.14	116.20
26	BB	2718	G	O4'-C1'-N9	7.84	114.47	108.20
26	BB	2786	U	C4'-C3'-C2'	-7.84	94.76	102.60
1	AA	297	G	N7-C8-N9	7.84	117.02	113.10
1	AA	735	C	N1-C1'-C2'	-7.84	103.38	112.00
4	AD	75	C	O4'-C1'-N1	-7.84	101.93	108.20
26	BB	1041	G	C5-N7-C8	-7.84	100.38	104.30
26	BB	1338	G	C5'-C4'-O4'	7.84	118.51	109.10
26	BB	2112	G	C5-N7-C8	-7.84	100.38	104.30
27	BC	122	ARG	NE-CZ-NH2	-7.84	116.38	120.30
1	AA	584	G	N3-C2-N2	-7.84	114.41	119.90
4	AD	57	C	O4'-C1'-N1	7.84	114.47	108.20
26	BB	1075	C	N3-C4-C5	-7.84	118.77	121.90
1	AA	154	U	N3-C4-C5	7.83	119.30	114.60
1	AA	603	U	N3-C4-C5	-7.83	109.90	114.60
26	BB	414	C	N1-C2-O2	7.83	123.60	118.90
26	BB	530	G	N3-C4-C5	-7.83	124.68	128.60
1	AA	41	G	O4'-C1'-N9	7.83	114.47	108.20
1	AA	819	A	C5-N7-C8	-7.83	99.98	103.90
1	AA	1159	U	C3'-C2'-C1'	7.83	107.77	101.50
1	AA	1259	C	O4'-C1'-N1	7.83	114.47	108.20
14	AN	90	PRO	N-CA-CB	7.83	112.70	103.30
26	BB	705	A	O4'-C1'-N9	7.83	114.47	108.20
26	BB	1227	G	C5'-C4'-O4'	7.83	118.50	109.10
26	BB	1230	A	C4-C5-N7	7.83	114.62	110.70
26	BB	2024	G	C4-C5-N7	-7.83	107.67	110.80
39	BO	81	ARG	NE-CZ-NH2	-7.83	116.38	120.30
1	AA	298	A	N1-C6-N6	-7.83	113.90	118.60
1	AA	1193	G	C6-N1-C2	-7.83	120.40	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1459	G	C8-N9-C4	-7.83	103.27	106.40
4	AD	12	G	N9-C1'-C2'	-7.83	103.39	112.00
25	BA	39	A	O4'-C4'-C3'	7.83	112.36	106.10
25	BA	60	C	N3-C4-N4	-7.83	112.52	118.00
26	BB	167	A	C8-N9-C4	-7.83	102.67	105.80
26	BB	2261	C	C5-C4-N4	-7.83	114.72	120.20
35	BK	133	ARG	CD-NE-CZ	7.83	134.56	123.60
1	AA	553	A	C4-C5-N7	-7.83	106.78	110.70
1	AA	839	C	C3'-C2'-C1'	-7.83	95.24	101.50
5	AE	207	ARG	NE-CZ-NH1	-7.83	116.39	120.30
1	AA	101	A	C5-C6-N6	7.83	129.96	123.70
25	BA	36	C	N3-C2-O2	-7.83	116.42	121.90
25	BA	50	A	C8-N9-C4	7.83	108.93	105.80
26	BB	7	G	N9-C4-C5	7.83	108.53	105.40
26	BB	711	G	N1-C6-O6	-7.83	115.20	119.90
26	BB	1684	G	C6-N1-C2	-7.83	120.40	125.10
26	BB	1775	U	C1'-O4'-C4'	-7.83	103.64	109.90
26	BB	1995	U	C5-C4-O4	-7.83	121.20	125.90
1	AA	88	U	C3'-C2'-C1'	7.83	107.76	101.50
26	BB	66	C	N3-C4-C5	-7.83	118.77	121.90
26	BB	332	A	C5'-C4'-O4'	7.83	118.49	109.10
26	BB	1428	C	C6-N1-C2	7.83	123.43	120.30
26	BB	1793	C	O4'-C1'-N1	7.83	114.46	108.20
1	AA	802	A	C2-N3-C4	7.83	114.51	110.60
1	AA	1146	A	C3'-C2'-C1'	-7.83	95.24	101.50
1	AA	1237	C	C4-C5-C6	-7.83	113.49	117.40
26	BB	50	U	O4'-C1'-N1	7.83	114.46	108.20
26	BB	82	U	O4'-C1'-N1	7.83	114.46	108.20
26	BB	1934	C	C2-N3-C4	7.83	123.81	119.90
1	AA	733	G	C4-C5-N7	-7.82	107.67	110.80
1	AA	1121	U	C2-N3-C4	-7.82	122.31	127.00
26	BB	273	G	C5-C6-O6	-7.82	123.91	128.60
26	BB	428	A	O4'-C4'-C3'	7.82	112.36	106.10
26	BB	1641	A	N9-C4-C5	7.82	108.93	105.80
1	AA	685	G	C4'-C3'-C2'	-7.82	94.78	102.60
1	AA	1260	G	C5-N7-C8	-7.82	100.39	104.30
1	AA	1461	G	C4-C5-N7	-7.82	107.67	110.80
26	BB	1014	A	C4-C5-N7	-7.82	106.79	110.70
26	BB	1435	G	N3-C4-N9	7.82	130.69	126.00
26	BB	1645	G	C3'-C2'-C1'	7.82	107.76	101.50
26	BB	1898	U	N3-C2-O2	-7.82	116.72	122.20
26	BB	2538	C	C6-N1-C2	7.82	123.43	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	148	G	O4'-C1'-N9	7.82	114.46	108.20
1	AA	308	C	O4'-C1'-N1	7.82	114.46	108.20
1	AA	492	C	N3-C2-O2	-7.82	116.42	121.90
4	AD	22	A	C3'-C2'-C1'	7.82	107.76	101.50
26	BB	242	G	C5-C6-N1	7.82	115.41	111.50
26	BB	840	C	N1-C2-O2	7.82	123.59	118.90
26	BB	923	G	C4-C5-N7	-7.82	107.67	110.80
26	BB	1249	U	C1'-O4'-C4'	-7.82	103.64	109.90
26	BB	1567	G	O4'-C4'-C3'	7.82	112.36	106.10
26	BB	1928	A	C8-N9-C4	-7.82	102.67	105.80
26	BB	2169	A	O4'-C1'-N9	7.82	114.46	108.20
26	BB	2265	U	N3-C4-C5	-7.82	109.91	114.60
26	BB	2803	G	C4-C5-N7	-7.82	107.67	110.80
26	BB	2896	C	C5'-C4'-O4'	7.82	118.48	109.10
26	BB	262	A	C6-N1-C2	-7.82	113.91	118.60
26	BB	883	G	C6-N1-C2	-7.82	120.41	125.10
26	BB	2049	G	N9-C4-C5	-7.82	102.27	105.40
26	BB	1451	C	C5-C6-N1	7.82	124.91	121.00
26	BB	1642	G	N7-C8-N9	-7.82	109.19	113.10
26	BB	2113	U	O4'-C1'-N1	7.82	114.45	108.20
26	BB	2892	G	O4'-C1'-N9	7.82	114.45	108.20
1	AA	167	A	N1-C6-N6	7.82	123.29	118.60
1	AA	180	U	O4'-C4'-C3'	7.82	112.35	106.10
1	AA	416	G	C6-C5-N7	-7.82	125.71	130.40
1	AA	578	C	P-O3'-C3'	7.82	129.08	119.70
26	BB	176	A	C5-C6-N6	-7.82	117.45	123.70
26	BB	306	U	N3-C2-O2	-7.82	116.73	122.20
26	BB	469	G	C5'-C4'-O4'	7.82	118.48	109.10
26	BB	851	C	C6-N1-C2	-7.82	117.17	120.30
26	BB	2293	G	N3-C4-C5	-7.82	124.69	128.60
26	BB	2867	G	O4'-C1'-N9	7.82	114.45	108.20
1	AA	242	G	C5-C6-N1	7.81	115.41	111.50
1	AA	506	G	C5-N7-C8	-7.81	100.39	104.30
4	AD	54	G	N1-C2-N2	7.81	123.23	116.20
26	BB	803	U	O4'-C1'-N1	7.81	114.45	108.20
26	BB	1080	A	C3'-C2'-C1'	7.81	107.75	101.50
26	BB	2259	U	C5-C6-N1	7.81	126.61	122.70
26	BB	2421	G	C5-C6-O6	-7.81	123.91	128.60
26	BB	2727	A	C4-C5-N7	7.81	114.61	110.70
1	AA	351	G	N7-C8-N9	7.81	117.01	113.10
26	BB	494	G	C5-N7-C8	7.81	108.20	104.30
1	AA	1	A	N1-C6-N6	-7.81	113.91	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	243	A	C6-N1-C2	7.81	123.29	118.60
1	AA	359	G	C5-N7-C8	-7.81	100.40	104.30
1	AA	430	A	N9-C4-C5	-7.81	102.68	105.80
1	AA	1185	G	C5-C6-O6	7.81	133.29	128.60
3	AC	46	C	C5-C4-N4	7.81	125.67	120.20
25	BA	95	U	N3-C4-C5	-7.81	109.91	114.60
26	BB	420	C	O4'-C1'-N1	7.81	114.45	108.20
26	BB	856	G	N1-C6-O6	7.81	124.59	119.90
26	BB	2663	G	N1-C6-O6	-7.81	115.21	119.90
26	BB	2666	C	N3-C4-C5	-7.81	118.78	121.90
26	BB	2667	C	O4'-C1'-N1	7.81	114.45	108.20
42	BR	97	TYR	CB-CG-CD2	-7.81	116.31	121.00
1	AA	366	A	C2-N3-C4	7.81	114.50	110.60
1	AA	776	G	N1-C6-O6	7.81	124.58	119.90
1	AA	778	G	N9-C4-C5	7.81	108.52	105.40
1	AA	868	C	O4'-C1'-N1	7.81	114.45	108.20
1	AA	1263	C	C6-N1-C2	-7.81	117.18	120.30
1	AA	1492	A	C5-C6-N6	-7.81	117.45	123.70
2	AB	2	G	N9-C4-C5	-7.81	102.28	105.40
4	AD	65	G	C4-C5-N7	-7.81	107.68	110.80
26	BB	379	G	N1-C2-N3	-7.81	119.22	123.90
26	BB	1552	A	C4-C5-C6	7.81	120.90	117.00
26	BB	1619	G	N3-C2-N2	-7.81	114.43	119.90
26	BB	2153	C	N3-C4-N4	7.81	123.47	118.00
26	BB	2581	G	N3-C4-C5	-7.81	124.70	128.60
1	AA	656	G	C4'-C3'-C2'	-7.81	94.79	102.60
1	AA	748	G	N9-C4-C5	-7.81	102.28	105.40
1	AA	1534	A	N3-C4-N9	7.81	133.65	127.40
2	AB	61	C	C5-C4-N4	-7.81	114.74	120.20
25	BA	61	G	O4'-C1'-N9	7.81	114.44	108.20
26	BB	309	A	O4'-C4'-C3'	7.81	112.34	106.10
26	BB	323	C	N1-C2-O2	7.81	123.58	118.90
26	BB	584	C	N1-C2-O2	7.81	123.58	118.90
26	BB	1790	C	O4'-C1'-N1	7.81	114.44	108.20
1	AA	87	C	N3-C2-O2	-7.80	116.44	121.90
1	AA	161	A	O4'-C1'-N9	7.80	114.44	108.20
1	AA	342	C	C6-N1-C2	-7.80	117.18	120.30
1	AA	505	G	N1-C2-N3	-7.80	119.22	123.90
26	BB	2674	G	N1-C2-N2	7.80	123.22	116.20
26	BB	1062	G	C5-C6-N1	7.80	115.40	111.50
26	BB	1276	A	N9-C4-C5	7.80	108.92	105.80
1	AA	435	A	N1-C6-N6	7.80	123.28	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	505	G	C8-N9-C4	-7.80	103.28	106.40
1	AA	1071	C	N1-C2-N3	7.80	124.66	119.20
2	AB	66	C	C5-C4-N4	-7.80	114.74	120.20
17	AQ	58	ARG	NE-CZ-NH1	7.80	124.20	120.30
26	BB	1858	A	C5-C6-N6	-7.80	117.46	123.70
26	BB	1933	G	C5-C6-N1	7.80	115.40	111.50
26	BB	2648	G	O4'-C1'-N9	7.80	114.44	108.20
1	AA	21	G	N3-C4-C5	-7.80	124.70	128.60
15	AO	55	ARG	NH1-CZ-NH2	7.80	127.98	119.40
26	BB	307	G	C6-N1-C2	-7.80	120.42	125.10
26	BB	340	A	C2-N3-C4	7.80	114.50	110.60
26	BB	898	C	O4'-C1'-N1	7.80	114.44	108.20
26	BB	1934	C	N1-C2-O2	7.80	123.58	118.90
4	AD	61	U	N1-C2-N3	7.80	119.58	114.90
26	BB	221	A	C5-C6-N1	7.80	121.60	117.70
26	BB	1223	G	N9-C4-C5	7.80	108.52	105.40
1	AA	1367	C	N3-C4-C5	-7.80	118.78	121.90
1	AA	1373	G	N9-C4-C5	7.80	108.52	105.40
25	BA	76	G	N3-C2-N2	7.80	125.36	119.90
26	BB	1016	G	C5-N7-C8	-7.80	100.40	104.30
26	BB	1049	C	N3-C4-C5	-7.80	118.78	121.90
26	BB	2345	G	C5-C6-N1	7.80	115.40	111.50
26	BB	2660	A	N1-C2-N3	-7.80	125.40	129.30
1	AA	748	G	C6-N1-C2	-7.79	120.42	125.10
1	AA	1272	G	N3-C2-N2	-7.79	114.44	119.90
26	BB	69	C	C6-N1-C2	-7.79	117.18	120.30
4	AD	23	G	C1'-O4'-C4'	-7.79	103.67	109.90
23	AW	59	ARG	NE-CZ-NH1	7.79	124.20	120.30
26	BB	759	G	C8-N9-C4	-7.79	103.28	106.40
26	BB	1678	A	N1-C6-N6	-7.79	113.92	118.60
26	BB	2424	C	C6-N1-C2	-7.79	117.18	120.30
32	BH	49	LEU	CB-CG-CD1	7.79	124.25	111.00
1	AA	178	C	C3'-C2'-C1'	7.79	107.73	101.50
1	AA	230	G	C5-N7-C8	-7.79	100.41	104.30
1	AA	927	G	N1-C6-O6	-7.79	115.22	119.90
1	AA	1012	A	C5-C6-N6	-7.79	117.47	123.70
1	AA	1023	U	O4'-C1'-N1	7.79	114.43	108.20
1	AA	1460	C	O4'-C1'-N1	7.79	114.43	108.20
26	BB	951	C	C6-N1-C2	-7.79	117.18	120.30
26	BB	1826	G	N9-C4-C5	-7.79	102.28	105.40
26	BB	2243	U	N3-C4-O4	7.79	124.85	119.40
26	BB	2348	U	O4'-C1'-N1	7.79	114.43	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2688	G	C8-N9-C4	-7.79	103.28	106.40
1	AA	766	A	C4'-C3'-C2'	-7.79	94.81	102.60
1	AA	960	U	N3-C2-O2	-7.79	116.75	122.20
4	AD	36	A	O4'-C1'-N9	7.79	114.43	108.20
26	BB	458	G	C2-N3-C4	7.79	115.80	111.90
26	BB	1308	A	N9-C4-C5	7.79	108.92	105.80
1	AA	931	C	C4-C5-C6	7.79	121.29	117.40
26	BB	534	U	O4'-C1'-N1	7.79	114.43	108.20
26	BB	677	A	C5-C6-N6	-7.79	117.47	123.70
26	BB	902	C	O4'-C1'-N1	7.79	114.43	108.20
26	BB	1291	C	C2-N3-C4	7.79	123.79	119.90
26	BB	1736	U	C5-C6-N1	-7.79	118.81	122.70
26	BB	1933	G	C6-N1-C2	-7.79	120.43	125.10
26	BB	2120	G	N3-C4-N9	7.79	130.67	126.00
26	BB	2495	G	N7-C8-N9	7.79	116.99	113.10
1	AA	799	G	C8-N9-C4	-7.79	103.28	106.40
1	AA	1255	G	C6-C5-N7	-7.79	125.73	130.40
1	AA	1517	G	N1-C2-N2	7.79	123.21	116.20
2	AB	73	G	N9-C4-C5	7.79	108.52	105.40
26	BB	781	A	N9-C4-C5	7.79	108.92	105.80
26	BB	2362	C	N1-C2-O2	7.79	123.57	118.90
1	AA	183	C	C6-N1-C2	-7.79	117.19	120.30
1	AA	245	U	C5-C6-N1	7.79	126.59	122.70
1	AA	1132	C	O4'-C1'-N1	7.79	114.43	108.20
25	BA	105	G	C2-N3-C4	7.79	115.79	111.90
1	AA	221	C	N3-C4-C5	-7.78	118.79	121.90
26	BB	495	G	N9-C4-C5	7.78	108.51	105.40
26	BB	496	G	N3-C2-N2	7.78	125.35	119.90
26	BB	520	G	C5'-C4'-O4'	7.78	118.44	109.10
4	AD	11	A	C8-N9-C4	-7.78	102.69	105.80
13	AM	89	ARG	NE-CZ-NH1	7.78	124.19	120.30
26	BB	688	U	C2-N3-C4	-7.78	122.33	127.00
26	BB	2407	A	N1-C2-N3	-7.78	125.41	129.30
26	BB	2900	A	C1'-O4'-C4'	-7.78	103.67	109.90
1	AA	619	U	C3'-C2'-C1'	-7.78	95.28	101.50
1	AA	1235	U	N1-C2-N3	7.78	119.57	114.90
1	AA	1263	C	C3'-C2'-C1'	7.78	107.72	101.50
14	AN	34	THR	CA-CB-CG2	7.78	123.29	112.40
26	BB	80	G	C5-C6-O6	-7.78	123.93	128.60
26	BB	998	C	C5-C6-N1	7.78	124.89	121.00
26	BB	1728	C	C6-N1-C1'	-7.78	111.46	120.80
26	BB	2349	G	N1-C2-N2	-7.78	109.20	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	134	G	N3-C4-C5	-7.78	124.71	128.60
26	BB	751	A	C8-N9-C4	-7.78	102.69	105.80
26	BB	1579	A	N9-C4-C5	7.78	108.91	105.80
26	BB	1952	A	N9-C4-C5	-7.78	102.69	105.80
26	BB	767	U	O4'-C1'-N1	7.78	114.42	108.20
26	BB	924	G	C4-C5-N7	-7.78	107.69	110.80
26	BB	1516	G	C2-N3-C4	7.78	115.79	111.90
26	BB	1844	C	C1'-O4'-C4'	7.78	116.12	109.90
26	BB	2130	U	C4-C5-C6	7.78	124.37	119.70
26	BB	2450	A	N9-C4-C5	-7.78	102.69	105.80
26	BB	2558	C	N3-C4-C5	7.78	125.01	121.90
45	BU	18	ARG	NE-CZ-NH1	7.78	124.19	120.30
1	AA	1020	G	N1-C2-N3	-7.78	119.23	123.90
1	AA	1046	A	C8-N9-C4	-7.78	102.69	105.80
1	AA	1322	C	C5-C6-N1	7.78	124.89	121.00
25	BA	106	G	C5'-C4'-O4'	7.78	118.43	109.10
26	BB	1993	U	N3-C2-O2	-7.78	116.76	122.20
18	AR	73	ASP	CB-CG-OD1	-7.77	111.30	118.30
25	BA	16	G	N3-C4-C5	-7.77	124.71	128.60
26	BB	167	A	C5-N7-C8	-7.77	100.01	103.90
26	BB	428	A	O4'-C1'-N9	7.77	114.42	108.20
1	AA	47	C	C3'-C2'-C1'	7.77	107.72	101.50
1	AA	407	U	N1-C2-N3	7.77	119.56	114.90
1	AA	468	A	C4-C5-N7	-7.77	106.81	110.70
1	AA	771	G	O4'-C1'-N9	7.77	114.42	108.20
26	BB	2353	G	N3-C4-N9	-7.77	121.34	126.00
26	BB	2411	A	C8-N9-C4	7.77	108.91	105.80
26	BB	2499	C	N1-C2-O2	7.77	123.56	118.90
1	AA	1417	G	C4-C5-C6	7.77	123.46	118.80
26	BB	183	C	C3'-C2'-C1'	-7.77	95.28	101.50
26	BB	443	A	C6-N1-C2	7.77	123.26	118.60
26	BB	843	G	N1-C2-N2	7.77	123.19	116.20
26	BB	2756	U	N3-C2-O2	-7.77	116.76	122.20
1	AA	606	G	C8-N9-C4	-7.77	103.29	106.40
26	BB	85	G	N9-C1'-C2'	-7.77	103.45	112.00
26	BB	1187	G	C4'-C3'-C2'	-7.77	94.83	102.60
26	BB	1547	C	C5-C6-N1	7.77	124.89	121.00
26	BB	1602	U	O4'-C4'-C3'	7.77	112.31	106.10
26	BB	1685	C	C2-N3-C4	7.77	123.78	119.90
26	BB	1770	G	C5-N7-C8	-7.77	100.42	104.30
26	BB	2070	A	N7-C8-N9	7.77	117.69	113.80
1	AA	80	A	C3'-C2'-C1'	7.77	107.71	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	623	C	N1-C2-O2	7.77	123.56	118.90
1	AA	1302	C	N3-C2-O2	-7.77	116.46	121.90
9	AI	92	THR	CA-CB-CG2	7.77	123.28	112.40
26	BB	240	C	C1'-O4'-C4'	7.77	116.11	109.90
26	BB	324	A	C3'-C2'-C1'	-7.77	95.29	101.50
26	BB	699	A	C4-C5-N7	7.77	114.58	110.70
26	BB	856	G	N9-C4-C5	7.77	108.51	105.40
1	AA	702	A	C5-C6-N6	-7.77	117.49	123.70
26	BB	91	A	C3'-C2'-C1'	7.77	107.71	101.50
26	BB	866	A	C5-N7-C8	-7.77	100.02	103.90
26	BB	2126	A	C2'-C3'-O3'	7.77	126.59	109.50
12	AL	11	ARG	NE-CZ-NH2	-7.76	116.42	120.30
26	BB	751	A	N9-C4-C5	-7.76	102.69	105.80
26	BB	1675	C	N1-C2-N3	-7.76	113.77	119.20
26	BB	2091	C	C6-N1-C2	7.76	123.41	120.30
26	BB	2250	G	C8-N9-C4	-7.76	103.29	106.40
26	BB	2341	G	C5-C6-N1	7.76	115.38	111.50
26	BB	2682	A	N9-C4-C5	7.76	108.91	105.80
18	AR	79	ARG	NE-CZ-NH2	7.76	124.18	120.30
26	BB	1355	G	C5-C6-O6	-7.76	123.94	128.60
26	BB	1710	G	O4'-C1'-C2'	7.76	114.59	107.60
1	AA	279	A	C5-N7-C8	7.76	107.78	103.90
1	AA	1229	A	O4'-C1'-N9	7.76	114.41	108.20
26	BB	199	A	N9-C4-C5	-7.76	102.69	105.80
26	BB	666	A	N9-C4-C5	-7.76	102.70	105.80
26	BB	1059	G	C4-C5-N7	-7.76	107.69	110.80
26	BB	1560	G	N7-C8-N9	7.76	116.98	113.10
26	BB	2490	G	C4-C5-C6	7.76	123.46	118.80
26	BB	2771	C	C2-N3-C4	-7.76	116.02	119.90
1	AA	545	C	O4'-C1'-C2'	-7.76	98.04	105.80
1	AA	935	A	C3'-C2'-C1'	7.76	107.71	101.50
1	AA	1437	A	C6-N1-C2	7.76	123.25	118.60
1	AA	1450	U	N3-C4-C5	-7.76	109.94	114.60
1	AA	1480	A	N7-C8-N9	7.76	117.68	113.80
26	BB	712	G	N3-C4-C5	-7.76	124.72	128.60
26	BB	1360	G	N1-C2-N3	7.76	128.56	123.90
26	BB	1725	U	N3-C4-O4	7.76	124.83	119.40
1	AA	1458	G	N9-C4-C5	7.76	108.50	105.40
26	BB	1243	C	N1-C2-O2	7.76	123.56	118.90
1	AA	1223	C	O4'-C1'-N1	-7.76	102.00	108.20
26	BB	1138	G	N3-C2-N2	-7.76	114.47	119.90
26	BB	1770	G	N7-C8-N9	7.76	116.98	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2798	U	O4'-C1'-N1	7.76	114.41	108.20
1	AA	111	G	C4'-C3'-C2'	-7.75	94.84	102.60
26	BB	713	G	C5-C6-N1	7.75	115.38	111.50
1	AA	876	C	C2-N1-C1'	-7.75	110.27	118.80
1	AA	1029	U	N1-C2-N3	7.75	119.55	114.90
1	AA	1392	G	N9-C4-C5	7.75	108.50	105.40
1	AA	1507	A	P-O3'-C3'	7.75	129.00	119.70
25	BA	31	C	N3-C4-C5	-7.75	118.80	121.90
26	BB	1353	A	C5'-C4'-O4'	7.75	118.40	109.10
26	BB	1456	G	O4'-C1'-N9	7.75	114.40	108.20
26	BB	1632	A	C8-N9-C4	-7.75	102.70	105.80
4	AD	12	G	O4'-C1'-N9	7.75	114.40	108.20
26	BB	363	G	C4-C5-C6	7.75	123.45	118.80
26	BB	1556	C	C2-N3-C4	7.75	123.78	119.90
26	BB	1778	U	C5-C6-N1	-7.75	118.82	122.70
26	BB	2141	G	N1-C6-O6	7.75	124.55	119.90
26	BB	2186	G	C8-N9-C4	-7.75	103.30	106.40
26	BB	2628	C	C5'-C4'-O4'	7.75	118.40	109.10
1	AA	176	C	P-O5'-C5'	7.75	133.30	120.90
26	BB	1990	C	C2-N3-C4	-7.75	116.03	119.90
26	BB	2867	G	C5-C6-N1	7.75	115.38	111.50
26	BB	1122	G	N9-C4-C5	7.75	108.50	105.40
26	BB	1316	U	O4'-C1'-N1	7.75	114.40	108.20
26	BB	1536	C	N3-C4-N4	7.75	123.42	118.00
26	BB	1680	U	C6-N1-C2	-7.75	116.35	121.00
26	BB	2698	U	P-O3'-C3'	7.75	129.00	119.70
26	BB	224	U	O4'-C1'-N1	7.75	114.40	108.20
1	AA	855	U	C3'-C2'-C1'	7.75	107.70	101.50
1	AA	870	U	N3-C2-O2	-7.75	116.78	122.20
1	AA	902	G	N3-C2-N2	7.74	125.32	119.90
26	BB	80	G	N1-C2-N3	-7.74	119.25	123.90
26	BB	104	A	O4'-C1'-N9	7.74	114.39	108.20
26	BB	2423	U	N1-C2-O2	-7.74	117.38	122.80
26	BB	2635	A	C8-N9-C4	-7.74	102.70	105.80
1	AA	1046	A	N1-C2-N3	-7.74	125.43	129.30
3	AC	16	A	C5-C6-N1	7.74	121.57	117.70
26	BB	1961	C	C2-N3-C4	7.74	123.77	119.90
26	BB	2547	A	C5-C6-N1	7.74	121.57	117.70
1	AA	95	C	C5'-C4'-O4'	7.74	118.39	109.10
4	AD	60	A	O4'-C1'-N9	7.74	114.39	108.20
25	BA	105	G	C1'-O4'-C4'	-7.74	103.71	109.90
26	BB	389	G	C5-C6-O6	-7.74	123.95	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	518	G	C2-N3-C4	7.74	115.77	111.90
26	BB	785	G	N7-C8-N9	7.74	116.97	113.10
26	BB	1379	U	C2-N3-C4	-7.74	122.36	127.00
26	BB	2119	A	N9-C4-C5	7.74	108.90	105.80
1	AA	525	C	C5'-C4'-O4'	7.74	118.39	109.10
1	AA	535	A	C5-C6-N6	-7.74	117.51	123.70
26	BB	626	A	C5-C6-N6	-7.74	117.51	123.70
26	BB	1289	C	N1-C2-O2	7.74	123.54	118.90
26	BB	1648	U	C2-N3-C4	7.74	131.64	127.00
26	BB	2075	U	C5-C4-O4	-7.74	121.26	125.90
26	BB	2373	G	N9-C4-C5	7.74	108.50	105.40
26	BB	2562	U	N3-C4-O4	7.74	124.82	119.40
1	AA	748	G	C4-C5-N7	7.74	113.89	110.80
1	AA	940	C	N1-C2-O2	7.74	123.54	118.90
26	BB	916	G	N1-C6-O6	-7.74	115.26	119.90
26	BB	1852	U	C2-N3-C4	-7.74	122.36	127.00
26	BB	1718	G	C8-N9-C4	-7.74	103.31	106.40
26	BB	2758	A	C4'-C3'-C2'	-7.74	94.86	102.60
26	BB	2803	G	C5-C6-N1	7.74	115.37	111.50
1	AA	849	G	C4-C5-C6	7.73	123.44	118.80
1	AA	1524	C	O4'-C1'-N1	7.73	114.39	108.20
26	BB	2	G	C3'-C2'-C1'	7.73	107.69	101.50
26	BB	939	G	N1-C6-O6	7.73	124.54	119.90
26	BB	1130	U	C5-C6-N1	-7.73	118.83	122.70
26	BB	1753	G	N3-C4-C5	-7.73	124.73	128.60
26	BB	2015	A	C6-C5-N7	-7.73	126.89	132.30
26	BB	2308	G	C4-C5-C6	7.73	123.44	118.80
1	AA	1282	C	C3'-C2'-C1'	-7.73	95.31	101.50
26	BB	424	G	C6-N1-C2	-7.73	120.46	125.10
26	BB	1661	G	N3-C4-C5	-7.73	124.73	128.60
26	BB	2682	A	N1-C6-N6	7.73	123.24	118.60
26	BB	2823	A	C2-N3-C4	7.73	114.47	110.60
1	AA	506	G	C2-N3-C4	7.73	115.77	111.90
1	AA	914	A	C2-N3-C4	7.73	114.47	110.60
1	AA	1491	G	C5-C6-O6	-7.73	123.96	128.60
2	AB	14	A	N7-C8-N9	7.73	117.67	113.80
26	BB	919	U	N3-C4-O4	7.73	124.81	119.40
26	BB	1538	G	N3-C4-N9	7.73	130.64	126.00
26	BB	2718	G	C5'-C4'-O4'	7.73	118.38	109.10
1	AA	44	A	N3-C4-N9	7.73	133.58	127.40
26	BB	526	A	C6-N1-C2	-7.73	113.96	118.60
26	BB	2439	A	C4-C5-C6	-7.73	113.14	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	14	U	O4'-C1'-N1	7.73	114.38	108.20
25	BA	71	C	C2-N3-C4	-7.73	116.04	119.90
26	BB	1662	U	C5-C6-N1	-7.73	118.84	122.70
26	BB	2633	G	C8-N9-C4	-7.73	103.31	106.40
26	BB	2655	G	N3-C4-N9	7.73	130.64	126.00
50	BZ	71	ARG	NE-CZ-NH1	7.73	124.16	120.30
1	AA	27	G	N7-C8-N9	-7.73	109.24	113.10
1	AA	164	G	C5-N7-C8	7.73	108.16	104.30
1	AA	449	G	C5-N7-C8	-7.73	100.44	104.30
1	AA	1077	G	C4-C5-C6	7.73	123.44	118.80
26	BB	572	A	O4'-C1'-N9	7.73	114.38	108.20
26	BB	1289	C	N3-C2-O2	-7.73	116.49	121.90
26	BB	2362	C	N3-C4-N4	7.73	123.41	118.00
1	AA	210	C	C6-N1-C2	-7.72	117.21	120.30
1	AA	963	G	O4'-C1'-N9	7.72	114.38	108.20
1	AA	1052	U	C2-N3-C4	-7.72	122.36	127.00
1	AA	1441	A	C3'-C2'-C1'	7.72	107.68	101.50
25	BA	58	A	N7-C8-N9	7.72	117.66	113.80
26	BB	278	A	C4-C5-C6	-7.72	113.14	117.00
26	BB	1818	U	C2-N3-C4	-7.72	122.36	127.00
26	BB	1831	G	C5-C6-O6	-7.72	123.97	128.60
26	BB	1984	G	C3'-C2'-C1'	-7.72	95.32	101.50
1	AA	298	A	N1-C2-N3	-7.72	125.44	129.30
1	AA	790	A	N1-C2-N3	-7.72	125.44	129.30
1	AA	1158	C	C6-N1-C2	-7.72	117.21	120.30
1	AA	1524	C	C4-C5-C6	-7.72	113.54	117.40
2	AB	47	U	O4'-C1'-N1	7.72	114.38	108.20
26	BB	130	C	N1-C2-O2	7.72	123.53	118.90
26	BB	846	U	N3-C2-O2	-7.72	116.80	122.20
26	BB	2211	A	C6-N1-C2	7.72	123.23	118.60
26	BB	2512	C	C6-N1-C2	-7.72	117.21	120.30
26	BB	2547	A	C4-C5-C6	-7.72	113.14	117.00
26	BB	63	A	N7-C8-N9	7.72	117.66	113.80
26	BB	514	A	N9-C4-C5	-7.72	102.71	105.80
26	BB	2289	G	N7-C8-N9	7.72	116.96	113.10
1	AA	293	G	N3-C4-N9	-7.72	121.37	126.00
1	AA	332	G	N9-C4-C5	7.72	108.49	105.40
25	BA	12	C	C2-N3-C4	7.72	123.76	119.90
25	BA	41	G	C5-C6-O6	-7.72	123.97	128.60
26	BB	818	G	C5-N7-C8	-7.72	100.44	104.30
26	BB	1365	A	N1-C6-N6	-7.72	113.97	118.60
26	BB	2357	G	C5-C6-N1	7.72	115.36	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	829	G	N9-C4-C5	7.72	108.49	105.40
26	BB	808	G	C2-N3-C4	7.72	115.76	111.90
26	BB	1614	A	C8-N9-C4	-7.72	102.71	105.80
26	BB	245	G	N7-C8-N9	7.72	116.96	113.10
26	BB	1661	G	N1-C6-O6	7.72	124.53	119.90
1	AA	1300	G	C4-C5-C6	7.71	123.43	118.80
1	AA	1505	G	C2-N3-C4	7.71	115.76	111.90
26	BB	1421	G	N3-C4-N9	7.71	130.63	126.00
26	BB	2045	C	C5-C6-N1	7.71	124.86	121.00
26	BB	2300	C	C6-N1-C2	7.71	123.39	120.30
1	AA	407	U	C5-C4-O4	-7.71	121.27	125.90
1	AA	440	C	C5-C4-N4	-7.71	114.80	120.20
1	AA	613	C	N3-C4-C5	-7.71	118.81	121.90
1	AA	623	C	C1'-O4'-C4'	7.71	116.07	109.90
26	BB	381	G	N9-C4-C5	7.71	108.48	105.40
26	BB	461	C	N3-C4-C5	7.71	124.98	121.90
26	BB	597	G	C5-C6-O6	-7.71	123.97	128.60
26	BB	917	A	C6-C5-N7	7.71	137.70	132.30
26	BB	1107	G	O4'-C1'-C2'	-7.71	98.09	105.80
26	BB	1627	G	C6-N1-C2	-7.71	120.47	125.10
26	BB	1901	A	N1-C6-N6	-7.71	113.97	118.60
47	BW	12	VAL	CG1-CB-CG2	-7.71	98.56	110.90
1	AA	339	C	N1-C1'-C2'	-7.71	103.52	112.00
25	BA	100	G	C5-N7-C8	7.71	108.16	104.30
26	BB	277	G	C8-N9-C4	-7.71	103.31	106.40
26	BB	935	C	C6-N1-C2	-7.71	117.22	120.30
26	BB	1895	C	N3-C4-C5	-7.71	118.82	121.90
1	AA	459	A	N9-C1'-C2'	-7.71	103.52	112.00
1	AA	1540	U	C2-N3-C4	-7.71	122.37	127.00
26	BB	354	A	C5-C6-N1	7.71	121.55	117.70
26	BB	445	C	N1-C2-O2	-7.71	114.28	118.90
26	BB	651	G	N1-C2-N2	7.71	123.14	116.20
26	BB	1067	A	N7-C8-N9	7.71	117.65	113.80
26	BB	1510	G	N3-C4-N9	7.71	130.62	126.00
26	BB	1826	G	C4-C5-N7	7.71	113.88	110.80
26	BB	2105	U	C5-C4-O4	-7.71	121.28	125.90
26	BB	2624	G	C8-N9-C4	-7.71	103.32	106.40
1	AA	1500	A	C5-C6-N1	7.71	121.55	117.70
25	BA	46	A	N1-C6-N6	-7.71	113.98	118.60
26	BB	436	C	C4'-C3'-C2'	-7.71	94.89	102.60
26	BB	2142	A	N7-C8-N9	-7.71	109.95	113.80
26	BB	2425	A	C4-C5-N7	7.71	114.55	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	542	C	C2-N3-C4	7.70	123.75	119.90
26	BB	934	U	C2-N3-C4	-7.70	122.38	127.00
26	BB	1409	U	N3-C4-O4	7.70	124.79	119.40
26	BB	2471	A	O4'-C1'-N9	7.70	114.36	108.20
26	BB	2782	G	N1-C2-N2	7.70	123.13	116.20
26	BB	1893	C	N3-C4-N4	7.70	123.39	118.00
26	BB	2329	U	C5-C6-N1	7.70	126.55	122.70
1	AA	1144	G	C5-N7-C8	7.70	108.15	104.30
1	AA	1220	G	C5'-C4'-O4'	-7.70	99.86	109.10
25	BA	31	C	O4'-C1'-N1	7.70	114.36	108.20
26	BB	1878	G	N7-C8-N9	7.70	116.95	113.10
26	BB	2519	U	C2-N3-C4	-7.70	122.38	127.00
26	BB	2620	C	O4'-C1'-N1	7.70	114.36	108.20
1	AA	265	G	C5-C6-O6	7.70	133.22	128.60
1	AA	1145	A	C5-C6-N1	7.70	121.55	117.70
1	AA	1217	C	N1-C2-O2	7.70	123.52	118.90
1	AA	1260	G	C4-C5-C6	-7.70	114.18	118.80
1	AA	1362	A	N9-C4-C5	7.70	108.88	105.80
26	BB	60	G	C4-C5-N7	-7.70	107.72	110.80
26	BB	494	G	C2-N3-C4	7.70	115.75	111.90
26	BB	610	C	N1-C2-O2	7.70	123.52	118.90
26	BB	1563	U	O4'-C1'-N1	7.70	114.36	108.20
26	BB	1766	G	N7-C8-N9	7.70	116.95	113.10
26	BB	2146	C	N1-C2-O2	7.70	123.52	118.90
26	BB	2618	G	C4-C5-C6	7.70	123.42	118.80
26	BB	217	A	C4'-C3'-C2'	-7.70	94.90	102.60
26	BB	386	G	C1'-O4'-C4'	7.70	116.06	109.90
26	BB	675	A	C4-C5-C6	7.70	120.85	117.00
1	AA	26	A	N9-C4-C5	7.70	108.88	105.80
1	AA	324	G	O4'-C1'-N9	7.70	114.36	108.20
1	AA	573	A	C5-C6-N6	-7.70	117.54	123.70
1	AA	1539	C	N1-C2-O2	7.70	123.52	118.90
26	BB	55	G	O4'-C4'-C3'	7.70	112.26	106.10
26	BB	475	C	C5-C6-N1	7.70	124.85	121.00
26	BB	537	G	N9-C4-C5	7.70	108.48	105.40
26	BB	590	A	C5'-C4'-O4'	7.70	118.33	109.10
26	BB	1119	U	O4'-C1'-N1	7.70	114.36	108.20
26	BB	1379	U	O4'-C1'-N1	7.70	114.36	108.20
26	BB	1628	G	N3-C4-C5	-7.70	124.75	128.60
25	BA	112	G	C5-C6-N1	7.69	115.35	111.50
1	AA	760	G	C1'-O4'-C4'	7.69	116.05	109.90
26	BB	586	A	C4-C5-N7	7.69	114.55	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	648	G	N7-C8-N9	7.69	116.95	113.10
26	BB	818	G	P-O3'-C3'	7.69	128.93	119.70
26	BB	1043	C	N1-C1'-C2'	-7.69	103.54	112.00
26	BB	1280	G	N9-C1'-C2'	-7.69	103.54	112.00
26	BB	1341	G	C4'-C3'-C2'	7.69	110.29	102.60
26	BB	1414	C	C6-N1-C2	-7.69	117.22	120.30
26	BB	1959	G	C5-C6-O6	-7.69	123.98	128.60
26	BB	1963	U	N3-C4-C5	-7.69	109.98	114.60
26	BB	2516	A	C4-C5-C6	-7.69	113.15	117.00
1	AA	694	A	C5-C6-N6	-7.69	117.55	123.70
1	AA	1224	U	N1-C2-N3	7.69	119.52	114.90
12	AL	102	PHE	CB-CG-CD2	-7.69	115.42	120.80
25	BA	108	A	C5-N7-C8	7.69	107.75	103.90
26	BB	1836	C	O4'-C1'-N1	7.69	114.35	108.20
1	AA	1258	G	C4-C5-N7	-7.69	107.72	110.80
26	BB	691	C	C5-C4-N4	-7.69	114.82	120.20
26	BB	864	G	N3-C4-C5	-7.69	124.76	128.60
26	BB	1509	A	C1'-O4'-C4'	-7.69	103.75	109.90
26	BB	2536	G	O4'-C4'-C3'	7.69	112.25	106.10
1	AA	1	A	C3'-C2'-C1'	7.69	107.65	101.50
26	BB	1132	U	N3-C4-O4	7.69	124.78	119.40
26	BB	2212	A	C6-N1-C2	-7.69	113.99	118.60
26	BB	2458	G	N7-C8-N9	7.69	116.94	113.10
26	BB	2786	U	C4-C5-C6	7.69	124.31	119.70
1	AA	661	G	C5-C6-O6	7.68	133.21	128.60
1	AA	687	A	N1-C6-N6	-7.68	113.99	118.60
1	AA	778	G	P-O3'-C3'	7.68	128.92	119.70
1	AA	1507	A	C8-N9-C4	-7.68	102.73	105.80
5	AE	207	ARG	NE-CZ-NH2	7.68	124.14	120.30
26	BB	2044	C	N1-C2-N3	-7.68	113.82	119.20
1	AA	361	G	C8-N9-C4	-7.68	103.33	106.40
1	AA	685	G	C5-C6-O6	-7.68	123.99	128.60
1	AA	906	A	C2-N3-C4	-7.68	106.76	110.60
26	BB	117	G	C6-C5-N7	-7.68	125.79	130.40
26	BB	553	G	O4'-C4'-C3'	7.68	112.25	106.10
26	BB	1726	C	C5'-C4'-O4'	7.68	118.32	109.10
26	BB	1743	G	C6-C5-N7	-7.68	125.79	130.40
26	BB	2290	G	C6-N1-C2	-7.68	120.49	125.10
26	BB	2628	C	O4'-C1'-N1	7.68	114.35	108.20
26	BB	2685	G	C2-N3-C4	7.68	115.74	111.90
26	BB	2869	G	C5-N7-C8	-7.68	100.46	104.30
44	BT	47	VAL	CA-CB-CG2	7.68	122.42	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	431	A	C6-C5-N7	7.68	137.68	132.30
1	AA	566	G	C2-N3-C4	7.68	115.74	111.90
1	AA	919	A	O4'-C1'-N9	7.68	114.34	108.20
1	AA	1040	U	N3-C4-O4	7.68	124.78	119.40
1	AA	1066	C	N3-C4-C5	-7.68	118.83	121.90
1	AA	1111	A	C6-N1-C2	-7.68	113.99	118.60
1	AA	1194	U	C5'-C4'-O4'	7.68	118.32	109.10
26	BB	208	C	C1'-O4'-C4'	7.68	116.04	109.90
26	BB	1979	U	N3-C2-O2	-7.68	116.83	122.20
26	BB	2383	G	N1-C6-O6	-7.68	115.29	119.90
1	AA	295	C	N3-C4-C5	7.68	124.97	121.90
1	AA	306	A	C4-C5-N7	-7.68	106.86	110.70
26	BB	1595	C	O4'-C1'-N1	7.68	114.34	108.20
52	B1	30	ARG	NE-CZ-NH2	-7.68	116.46	120.30
1	AA	83	C	C5'-C4'-O4'	7.68	118.31	109.10
1	AA	590	U	N1-C2-N3	7.68	119.51	114.90
26	BB	606	U	N3-C2-O2	-7.68	116.83	122.20
26	BB	719	C	C5-C6-N1	7.68	124.84	121.00
26	BB	1392	A	C2-N3-C4	7.68	114.44	110.60
26	BB	2323	G	C8-N9-C4	-7.68	103.33	106.40
1	AA	192	A	O4'-C1'-N9	7.67	114.34	108.20
1	AA	292	G	P-O3'-C3'	7.67	128.91	119.70
1	AA	344	A	N7-C8-N9	-7.67	109.96	113.80
1	AA	513	C	C4-C5-C6	-7.67	113.56	117.40
1	AA	728	A	N7-C8-N9	7.67	117.64	113.80
1	AA	782	A	N9-C1'-C2'	-7.67	103.56	112.00
1	AA	875	U	C5'-C4'-C3'	-7.67	103.72	116.00
6	AF	167	TYR	CB-CG-CD2	7.67	125.61	121.00
26	BB	822	G	N1-C6-O6	-7.67	115.30	119.90
26	BB	1622	G	C2-N3-C4	7.67	115.74	111.90
26	BB	2217	G	C6-C5-N7	-7.67	125.80	130.40
26	BB	2258	C	N3-C4-C5	-7.67	118.83	121.90
26	BB	2741	A	C6-C5-N7	7.67	137.67	132.30
28	BD	79	ARG	NE-CZ-NH1	7.67	124.14	120.30
26	BB	882	G	N3-C4-C5	-7.67	124.76	128.60
26	BB	2243	U	N1-C2-N3	7.67	119.50	114.90
1	AA	57	G	C4-C5-C6	7.67	123.40	118.80
1	AA	699	C	C6-N1-C2	-7.67	117.23	120.30
1	AA	797	C	O4'-C1'-N1	7.67	114.34	108.20
26	BB	64	A	N7-C8-N9	7.67	117.64	113.80
26	BB	268	C	O4'-C1'-N1	7.67	114.34	108.20
26	BB	568	U	N1-C2-N3	7.67	119.50	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2261	C	N1-C2-O2	7.67	123.50	118.90
26	BB	2488	G	N3-C4-C5	-7.67	124.76	128.60
26	BB	2500	U	O4'-C1'-N1	7.67	114.34	108.20
26	BB	2733	A	C4'-C3'-C2'	-7.67	94.93	102.60
26	BB	123	G	C5-N7-C8	-7.67	100.47	104.30
26	BB	253	C	C5'-C4'-O4'	7.67	118.30	109.10
26	BB	2490	G	N9-C4-C5	7.67	108.47	105.40
1	AA	74	A	C6-N1-C2	-7.67	114.00	118.60
1	AA	699	C	C5-C6-N1	7.67	124.83	121.00
1	AA	1476	A	C5-C6-N6	-7.67	117.56	123.70
26	BB	956	G	C5-N7-C8	-7.67	100.47	104.30
26	BB	2001	C	C4-C5-C6	7.67	121.23	117.40
26	BB	2017	U	N3-C4-O4	7.67	124.77	119.40
1	AA	1106	G	O4'-C4'-C3'	7.67	112.23	106.10
1	AA	1337	G	C6-C5-N7	7.67	135.00	130.40
1	AA	1383	C	N3-C2-O2	-7.67	116.53	121.90
26	BB	841	G	C5'-C4'-C3'	-7.67	103.73	116.00
26	BB	1266	G	P-O3'-C3'	7.67	128.90	119.70
26	BB	1595	C	N1-C2-N3	7.67	124.57	119.20
26	BB	1648	U	C5-C4-O4	-7.67	121.30	125.90
26	BB	1731	G	N9-C4-C5	7.67	108.47	105.40
26	BB	1845	G	N9-C4-C5	7.67	108.47	105.40
26	BB	2547	A	C5-C6-N6	-7.67	117.57	123.70
26	BB	2843	G	N1-C2-N3	-7.67	119.30	123.90
1	AA	595	A	N1-C6-N6	-7.67	114.00	118.60
26	BB	518	G	O4'-C1'-N9	7.67	114.33	108.20
26	BB	2177	C	N3-C2-O2	-7.67	116.53	121.90
26	BB	2801	G	C4-C5-C6	7.67	123.40	118.80
1	AA	258	G	O4'-C1'-N9	7.66	114.33	108.20
1	AA	478	A	C8-N9-C4	-7.66	102.73	105.80
1	AA	511	C	O4'-C1'-N1	7.66	114.33	108.20
26	BB	1093	G	P-O3'-C3'	7.66	128.90	119.70
26	BB	2102	G	N1-C6-O6	7.66	124.50	119.90
1	AA	462	G	C5-C6-O6	-7.66	124.00	128.60
17	AQ	64	ARG	NH1-CZ-NH2	7.66	127.83	119.40
1	AA	24	U	C5-C4-O4	-7.66	121.30	125.90
1	AA	572	A	N7-C8-N9	-7.66	109.97	113.80
10	AJ	4	ARG	NE-CZ-NH1	7.66	124.13	120.30
26	BB	1873	G	C5-N7-C8	7.66	108.13	104.30
26	BB	1984	G	C5-N7-C8	7.66	108.13	104.30
26	BB	2716	C	C3'-C2'-C1'	7.66	107.63	101.50
1	AA	159	G	C4-C5-C6	7.66	123.40	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	442	G	C2-N3-C4	7.66	115.73	111.90
1	AA	1026	G	N3-C4-N9	7.66	130.59	126.00
4	AD	32	G	N7-C8-N9	7.66	116.93	113.10
25	BA	44	G	N1-C6-O6	-7.66	115.31	119.90
26	BB	698	C	C6-N1-C2	7.66	123.36	120.30
26	BB	2179	C	O4'-C1'-N1	7.66	114.33	108.20
26	BB	2204	G	N1-C2-N3	-7.66	119.31	123.90
26	BB	2328	A	C5-C6-N1	7.66	121.53	117.70
26	BB	2371	G	N1-C2-N3	-7.66	119.30	123.90
26	BB	2641	G	C2-N3-C4	7.66	115.73	111.90
1	AA	9	G	N9-C1'-C2'	-7.66	103.58	112.00
10	AJ	17	PHE	CB-CG-CD2	-7.66	115.44	120.80
25	BA	102	G	C3'-C2'-C1'	7.66	107.62	101.50
26	BB	1035	U	C4'-C3'-C2'	-7.66	94.94	102.60
26	BB	1400	U	N3-C4-C5	-7.66	110.01	114.60
26	BB	1555	G	C5-N7-C8	-7.66	100.47	104.30
26	BB	2816	G	N1-C6-O6	-7.66	115.31	119.90
1	AA	354	G	C8-N9-C4	-7.66	103.34	106.40
1	AA	487	A	O4'-C1'-N9	7.66	114.32	108.20
25	BA	35	C	C2-N3-C4	-7.66	116.07	119.90
26	BB	537	G	C4-C5-N7	-7.66	107.74	110.80
26	BB	1831	G	N3-C4-N9	7.66	130.59	126.00
26	BB	2056	G	N3-C4-C5	-7.66	124.77	128.60
26	BB	2665	A	C8-N9-C4	-7.66	102.74	105.80
1	AA	168	G	O4'-C1'-N9	7.65	114.32	108.20
1	AA	1322	C	C5'-C4'-O4'	-7.65	99.92	109.10
26	BB	141	G	C2-N3-C4	7.65	115.73	111.90
26	BB	297	G	N3-C4-C5	-7.65	124.77	128.60
1	AA	211	G	C2-N3-C4	7.65	115.73	111.90
1	AA	740	U	O4'-C1'-N1	7.65	114.32	108.20
20	AT	76	ARG	NE-CZ-NH1	7.65	124.13	120.30
26	BB	41	C	N1-C2-O2	7.65	123.49	118.90
26	BB	66	C	N3-C4-N4	7.65	123.36	118.00
26	BB	1405	U	O4'-C1'-N1	7.65	114.32	108.20
1	AA	1517	G	C1'-O4'-C4'	-7.65	103.78	109.90
26	BB	192	C	C2-N3-C4	7.65	123.73	119.90
26	BB	221	A	O4'-C1'-N9	7.65	114.32	108.20
26	BB	407	G	C5'-C4'-C3'	7.65	128.24	116.00
26	BB	864	G	C6-C5-N7	-7.65	125.81	130.40
26	BB	1366	A	C2-N3-C4	7.65	114.42	110.60
26	BB	1434	A	C5-N7-C8	-7.65	100.08	103.90
28	BD	181	ARG	NE-CZ-NH1	7.65	124.12	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BP	29	VAL	CA-CB-CG1	7.65	122.38	110.90
26	BB	319	G	N3-C4-N9	-7.65	121.41	126.00
26	BB	2209	G	N7-C8-N9	7.65	116.92	113.10
26	BB	2279	G	N1-C6-O6	-7.65	115.31	119.90
1	AA	305	G	C5-C6-O6	-7.65	124.01	128.60
1	AA	771	G	C5-N7-C8	7.65	108.12	104.30
12	AL	79	ARG	NE-CZ-NH1	7.65	124.12	120.30
26	BB	46	G	C5-C6-O6	-7.65	124.01	128.60
26	BB	1986	C	C6-N1-C2	7.65	123.36	120.30
26	BB	2413	G	N1-C6-O6	7.65	124.49	119.90
26	BB	99	U	O4'-C1'-N1	7.65	114.32	108.20
26	BB	418	C	O4'-C1'-N1	7.65	114.32	108.20
26	BB	638	G	N7-C8-N9	7.65	116.92	113.10
26	BB	2622	U	C5-C4-O4	-7.65	121.31	125.90
1	AA	207	C	C5-C4-N4	-7.64	114.85	120.20
1	AA	510	A	C5-C6-N6	-7.64	117.58	123.70
1	AA	1018	G	N1-C6-O6	-7.64	115.31	119.90
26	BB	832	U	C5'-C4'-O4'	7.64	118.27	109.10
26	BB	2227	A	C4-C5-N7	7.64	114.52	110.70
1	AA	340	U	C1'-O4'-C4'	-7.64	103.79	109.90
1	AA	949	A	N1-C6-N6	-7.64	114.02	118.60
2	AB	75	C	O4'-C1'-N1	7.64	114.31	108.20
8	AH	44	ARG	NE-CZ-NH1	7.64	124.12	120.30
26	BB	1080	A	C4-C5-C6	-7.64	113.18	117.00
26	BB	2099	U	O4'-C1'-N1	7.64	114.31	108.20
1	AA	528	C	N3-C4-N4	7.64	123.35	118.00
1	AA	1276	G	N3-C4-C5	-7.64	124.78	128.60
1	AA	1451	U	C1'-O4'-C4'	-7.64	103.79	109.90
2	AB	75	C	C3'-C2'-C1'	7.64	107.61	101.50
26	BB	1122	G	C4-C5-N7	-7.64	107.74	110.80
26	BB	2255	G	N1-C6-O6	7.64	124.48	119.90
38	BN	47	ARG	NE-CZ-NH2	7.64	124.12	120.30
54	B3	51	ARG	NE-CZ-NH2	7.64	124.12	120.30
1	AA	158	G	C4-C5-N7	-7.64	107.74	110.80
1	AA	160	A	O4'-C4'-C3'	7.64	112.21	106.10
26	BB	196	A	C3'-C2'-C1'	-7.64	95.39	101.50
26	BB	821	A	C2-N3-C4	7.64	114.42	110.60
26	BB	1490	A	N1-C2-N3	-7.64	125.48	129.30
26	BB	1677	A	N3-C4-C5	-7.64	121.45	126.80
26	BB	2165	C	O4'-C1'-C2'	-7.64	98.16	105.80
26	BB	677	A	C5'-C4'-C3'	-7.64	103.78	116.00
1	AA	733	G	P-O3'-C3'	7.64	128.86	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1410	A	C8-N9-C4	7.64	108.85	105.80
26	BB	272	A	C5-N7-C8	7.64	107.72	103.90
26	BB	909	A	C4-C5-C6	-7.64	113.18	117.00
26	BB	1059	G	C5-N7-C8	7.64	108.12	104.30
26	BB	1427	A	C4-C5-C6	-7.64	113.18	117.00
26	BB	1998	A	O4'-C1'-N9	7.64	114.31	108.20
26	BB	2037	A	N1-C6-N6	7.64	123.18	118.60
1	AA	360	G	C1'-O4'-C4'	-7.63	103.79	109.90
1	AA	576	C	N1-C2-O2	7.63	123.48	118.90
1	AA	591	U	N1-C2-N3	7.63	119.48	114.90
1	AA	1321	U	O4'-C1'-N1	7.63	114.31	108.20
26	BB	47	C	O4'-C4'-C3'	-7.63	96.37	104.00
26	BB	1583	A	C5-C6-N1	-7.63	113.88	117.70
26	BB	1958	C	N3-C4-C5	-7.63	118.85	121.90
26	BB	2455	G	N1-C6-O6	-7.63	115.32	119.90
26	BB	2557	G	C5-N7-C8	7.63	108.12	104.30
36	BL	16	TYR	CB-CG-CD1	7.63	125.58	121.00
48	BX	65	VAL	CA-CB-CG1	7.63	122.35	110.90
1	AA	138	G	N1-C6-O6	7.63	124.48	119.90
1	AA	963	G	N1-C6-O6	7.63	124.48	119.90
3	AC	42	U	N3-C4-O4	7.63	124.74	119.40
26	BB	248	G	C6-C5-N7	-7.63	125.82	130.40
26	BB	1094	U	C6-N1-C1'	-7.63	110.52	121.20
26	BB	2525	G	N7-C8-N9	7.63	116.92	113.10
1	AA	1041	G	C5'-C4'-C3'	7.63	128.21	116.00
26	BB	1875	G	N9-C4-C5	7.63	108.45	105.40
1	AA	335	C	C6-N1-C2	-7.63	117.25	120.30
1	AA	596	A	C5-C6-N6	-7.63	117.60	123.70
1	AA	774	G	O4'-C1'-N9	7.63	114.30	108.20
1	AA	1046	A	C4'-C3'-C2'	-7.63	94.97	102.60
1	AA	1085	U	C1'-O4'-C4'	-7.63	103.80	109.90
1	AA	1360	A	C4-C5-C6	-7.63	113.19	117.00
1	AA	1534	A	C6-C5-N7	-7.63	126.96	132.30
26	BB	16	C	C3'-C2'-C1'	7.63	107.60	101.50
26	BB	379	G	N3-C4-C5	7.63	132.41	128.60
26	BB	388	G	O4'-C1'-N9	7.63	114.30	108.20
26	BB	2365	G	C8-N9-C4	-7.63	103.35	106.40
26	BB	2637	U	O4'-C1'-N1	7.63	114.30	108.20
26	BB	2846	G	N3-C4-C5	-7.63	124.78	128.60
1	AA	41	G	C8-N9-C4	-7.63	103.35	106.40
1	AA	191	G	C5-N7-C8	-7.63	100.49	104.30
1	AA	533	A	N1-C6-N6	7.63	123.18	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	816	A	N1-C6-N6	7.63	123.17	118.60
1	AA	1299	A	C4-C5-N7	7.63	114.51	110.70
25	BA	3	C	C4-C5-C6	-7.63	113.59	117.40
26	BB	66	C	C2-N3-C4	7.63	123.71	119.90
26	BB	1338	G	C4-C5-C6	7.63	123.38	118.80
26	BB	1564	C	N3-C4-N4	7.63	123.34	118.00
1	AA	882	C	C5-C6-N1	-7.62	117.19	121.00
3	AC	30	U	C5-C4-O4	-7.62	121.33	125.90
26	BB	100	U	O4'-C1'-N1	7.62	114.30	108.20
1	AA	849	G	N9-C4-C5	7.62	108.45	105.40
8	AH	47	PHE	CB-CG-CD2	-7.62	115.46	120.80
26	BB	1534	U	N3-C2-O2	-7.62	116.86	122.20
26	BB	2321	U	N3-C4-O4	-7.62	114.06	119.40
1	AA	755	G	C4-C5-C6	7.62	123.37	118.80
1	AA	845	A	C8-N9-C4	-7.62	102.75	105.80
4	AD	29	C	C4-C5-C6	-7.62	113.59	117.40
20	AT	6	THR	CA-CB-CG2	7.62	123.07	112.40
26	BB	547	A	N3-C4-C5	-7.62	121.47	126.80
26	BB	957	C	N3-C4-C5	-7.62	118.85	121.90
26	BB	1901	A	O4'-C1'-N9	7.62	114.30	108.20
26	BB	1996	C	C5-C6-N1	7.62	124.81	121.00
26	BB	2463	C	N1-C2-N3	-7.62	113.86	119.20
1	AA	334	C	N1-C2-N3	-7.62	113.87	119.20
26	BB	855	G	C4'-C3'-C2'	-7.62	94.98	102.60
26	BB	1583	A	O4'-C4'-C3'	7.62	112.20	106.10
26	BB	1695	G	N3-C2-N2	-7.62	114.57	119.90
26	BB	2515	C	N3-C4-N4	-7.62	112.67	118.00
1	AA	262	A	C4-C5-N7	-7.62	106.89	110.70
26	BB	420	C	C5-C4-N4	7.62	125.53	120.20
26	BB	524	G	N9-C4-C5	-7.62	102.35	105.40
26	BB	1070	A	P-O3'-C3'	7.62	128.84	119.70
26	BB	1540	G	C2-N3-C4	7.62	115.71	111.90
1	AA	1228	C	C5-C4-N4	7.62	125.53	120.20
10	AJ	2	ARG	NE-CZ-NH1	7.62	124.11	120.30
26	BB	1127	A	O4'-C4'-C3'	7.62	112.19	106.10
26	BB	1705	A	C5-C6-N1	7.62	121.51	117.70
26	BB	1780	A	C3'-C2'-C1'	7.62	107.59	101.50
26	BB	2407	A	C2-N3-C4	7.62	114.41	110.60
1	AA	692	U	N3-C4-C5	-7.62	110.03	114.60
26	BB	322	A	N3-C4-N9	-7.62	121.31	127.40
26	BB	474	G	N3-C2-N2	-7.62	114.57	119.90
26	BB	1459	G	C6-N1-C2	-7.62	120.53	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2211	A	C1'-O4'-C4'	7.62	115.99	109.90
26	BB	2541	A	C5-C6-N1	7.62	121.51	117.70
47	BW	21	ARG	NE-CZ-NH1	7.62	124.11	120.30
1	AA	631	C	P-O3'-C3'	7.61	128.84	119.70
1	AA	982	U	N3-C2-O2	-7.61	116.87	122.20
1	AA	1254	A	C4-C5-N7	-7.61	106.89	110.70
1	AA	1266	G	C2-N3-C4	7.61	115.71	111.90
26	BB	19	A	C5-C6-N1	7.61	121.51	117.70
26	BB	90	U	O4'-C1'-N1	7.61	114.29	108.20
26	BB	1004	U	N1-C2-N3	7.61	119.47	114.90
26	BB	1098	A	N3-C4-N9	7.61	133.49	127.40
26	BB	1622	G	C8-N9-C4	-7.61	103.36	106.40
26	BB	1834	U	C5-C6-N1	-7.61	118.89	122.70
26	BB	2032	G	C4-C5-N7	-7.61	107.75	110.80
1	AA	80	A	N1-C6-N6	7.61	123.17	118.60
1	AA	110	C	N1-C2-O2	7.61	123.47	118.90
1	AA	1156	G	C5-C6-O6	7.61	133.17	128.60
1	AA	1238	A	C3'-C2'-C1'	7.61	107.59	101.50
22	AV	40	PHE	CB-CG-CD2	-7.61	115.47	120.80
26	BB	26	G	C5-N7-C8	7.61	108.11	104.30
26	BB	648	G	N1-C6-O6	7.61	124.47	119.90
1	AA	21	G	C5'-C4'-O4'	7.61	118.23	109.10
1	AA	409	U	O4'-C1'-N1	7.61	114.29	108.20
1	AA	1097	C	C5'-C4'-O4'	7.61	118.23	109.10
1	AA	1244	G	N3-C4-C5	-7.61	124.79	128.60
26	BB	2505	G	C4'-C3'-C2'	-7.61	94.99	102.60
1	AA	371	A	C4-C5-C6	-7.61	113.19	117.00
4	AD	40	C	N1-C2-O2	7.61	123.47	118.90
26	BB	2458	G	C5-N7-C8	-7.61	100.50	104.30
1	AA	1349	A	C1'-O4'-C4'	-7.61	103.81	109.90
26	BB	466	A	N7-C8-N9	7.61	117.60	113.80
26	BB	574	A	O4'-C1'-N9	7.61	114.29	108.20
26	BB	2067	G	C5-C6-N1	7.61	115.30	111.50
26	BB	2408	U	C5-C6-N1	-7.61	118.90	122.70
26	BB	2698	U	C2-N3-C4	-7.61	122.44	127.00
1	AA	773	G	C6-C5-N7	-7.61	125.84	130.40
3	AC	57	C	C5-C6-N1	-7.61	117.20	121.00
26	BB	626	A	C6-N1-C2	-7.61	114.04	118.60
1	AA	731	G	C4-C5-C6	7.60	123.36	118.80
1	AA	978	A	O4'-C1'-N9	7.60	114.28	108.20
4	AD	11	A	N9-C4-C5	7.60	108.84	105.80
25	BA	28	C	C1'-O4'-C4'	-7.60	103.82	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2161	C	O4'-C1'-N1	7.60	114.28	108.20
1	AA	293	G	C4-C5-C6	7.60	123.36	118.80
1	AA	495	A	C5-C6-N6	7.60	129.78	123.70
1	AA	567	G	N3-C4-C5	-7.60	124.80	128.60
1	AA	716	A	C6-N1-C2	7.60	123.16	118.60
1	AA	1214	C	P-O3'-C3'	7.60	128.82	119.70
25	BA	49	C	C5-C4-N4	7.60	125.52	120.20
26	BB	356	G	C6-C5-N7	7.60	134.96	130.40
26	BB	612	G	N1-C6-O6	7.60	124.46	119.90
26	BB	1058	U	C5'-C4'-O4'	7.60	118.22	109.10
26	BB	1425	G	C8-N9-C4	-7.60	103.36	106.40
26	BB	1696	G	N3-C2-N2	-7.60	114.58	119.90
26	BB	1772	A	O4'-C1'-N9	7.60	114.28	108.20
26	BB	2561	U	C4'-C3'-C2'	-7.60	95.00	102.60
4	AD	17	C	N1-C2-O2	7.60	123.46	118.90
26	BB	659	G	N9-C4-C5	-7.60	102.36	105.40
26	BB	1151	A	C8-N9-C4	-7.60	102.76	105.80
1	AA	365	U	O3'-P-O5'	-7.60	89.56	104.00
26	BB	35	G	C3'-C2'-C1'	7.60	107.58	101.50
26	BB	180	G	C1'-O4'-C4'	-7.60	103.82	109.90
26	BB	508	A	C6-N1-C2	7.60	123.16	118.60
26	BB	850	U	C3'-C2'-C1'	7.60	107.58	101.50
26	BB	2361	G	N3-C4-C5	-7.60	124.80	128.60
1	AA	906	A	O4'-C1'-N9	7.60	114.28	108.20
12	AL	129	ARG	NE-CZ-NH2	-7.60	116.50	120.30
26	BB	359	G	N3-C4-C5	-7.60	124.80	128.60
26	BB	741	U	C4-C5-C6	7.60	124.26	119.70
26	BB	1430	G	C6-C5-N7	-7.60	125.84	130.40
26	BB	1906	G	C2-N3-C4	7.60	115.70	111.90
26	BB	2529	G	C5-C6-N1	7.60	115.30	111.50
26	BB	408	G	N3-C2-N2	7.60	125.22	119.90
1	AA	103	U	C4'-C3'-C2'	-7.59	95.00	102.60
1	AA	500	G	C4-C5-N7	7.59	113.84	110.80
1	AA	683	G	N9-C4-C5	7.59	108.44	105.40
2	AB	38	A	C5-N7-C8	-7.59	100.10	103.90
25	BA	35	C	C1'-O4'-C4'	-7.59	103.82	109.90
26	BB	162	U	C6-N1-C2	-7.59	116.44	121.00
26	BB	707	G	C8-N9-C4	-7.59	103.36	106.40
26	BB	864	G	C5-N7-C8	-7.59	100.50	104.30
26	BB	882	G	C5-C6-O6	7.59	133.16	128.60
26	BB	889	C	N3-C4-C5	-7.59	118.86	121.90
26	BB	977	G	N1-C2-N2	7.59	123.03	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1494	A	N3-C4-C5	-7.59	121.48	126.80
26	BB	1806	C	C2-N3-C4	7.59	123.70	119.90
26	BB	1983	G	C5-N7-C8	7.59	108.10	104.30
26	BB	2290	G	C5-N7-C8	-7.59	100.50	104.30
1	AA	162	A	O4'-C1'-N9	7.59	114.28	108.20
26	BB	593	U	N1-C2-N3	7.59	119.46	114.90
26	BB	2385	C	C5-C4-N4	-7.59	114.89	120.20
1	AA	989	U	C4-C5-C6	7.59	124.25	119.70
1	AA	1439	G	N3-C4-N9	7.59	130.56	126.00
1	AA	1523	G	C8-N9-C4	-7.59	103.36	106.40
2	AB	26	A	C5-N7-C8	-7.59	100.10	103.90
22	AV	2	ARG	NE-CZ-NH2	7.59	124.10	120.30
26	BB	129	C	C2-N3-C4	7.59	123.70	119.90
26	BB	1568	G	C5'-C4'-O4'	7.59	118.21	109.10
26	BB	2606	C	N3-C4-N4	7.59	123.31	118.00
1	AA	173	U	C5'-C4'-C3'	-7.59	103.86	116.00
1	AA	305	G	C6-C5-N7	7.59	134.95	130.40
1	AA	926	G	C2-N3-C4	7.59	115.69	111.90
1	AA	1163	A	C6-C5-N7	-7.59	126.99	132.30
1	AA	1360	A	C3'-C2'-C1'	-7.59	95.43	101.50
26	BB	583	G	N3-C2-N2	-7.59	114.59	119.90
26	BB	1689	A	P-O3'-C3'	7.59	128.81	119.70
26	BB	1742	U	C4'-C3'-C2'	-7.59	95.01	102.60
26	BB	2196	C	C2-N3-C4	7.59	123.69	119.90
26	BB	2359	C	C2-N3-C4	-7.59	116.11	119.90
26	BB	2409	G	N3-C2-N2	7.59	125.21	119.90
26	BB	2428	G	O4'-C1'-N9	7.59	114.27	108.20
28	BD	202	ARG	NE-CZ-NH2	-7.59	116.50	120.30
2	AB	24	G	N3-C4-C5	-7.59	124.81	128.60
26	BB	290	U	N3-C2-O2	7.59	127.51	122.20
26	BB	457	A	N9-C4-C5	7.59	108.83	105.80
26	BB	865	C	N3-C4-C5	-7.59	118.86	121.90
53	B2	4	ASP	CB-CG-OD1	7.59	125.13	118.30
1	AA	36	C	C3'-C2'-C1'	7.59	107.57	101.50
1	AA	211	G	N3-C4-N9	7.59	130.55	126.00
2	AB	70	C	O4'-C1'-N1	7.59	114.27	108.20
26	BB	1029	A	C4'-C3'-C2'	-7.59	95.01	102.60
26	BB	1413	A	C4-C5-N7	7.59	114.49	110.70
26	BB	1923	U	C5-C4-O4	-7.59	121.35	125.90
1	AA	954	G	N1-C6-O6	7.58	124.45	119.90
1	AA	1363	A	C1'-O4'-C4'	-7.58	103.83	109.90
1	AA	1385	G	C1'-O4'-C4'	-7.58	103.83	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	8	C	C2-N3-C4	7.58	123.69	119.90
26	BB	864	G	P-O3'-C3'	7.58	128.80	119.70
26	BB	2262	U	C2-N3-C4	-7.58	122.45	127.00
26	BB	2355	G	C3'-C2'-C1'	-7.58	95.43	101.50
26	BB	2814	A	C8-N9-C4	-7.58	102.77	105.80
1	AA	342	C	O4'-C1'-N1	7.58	114.27	108.20
1	AA	936	C	C5-C6-N1	7.58	124.79	121.00
25	BA	73	A	C5'-C4'-O4'	7.58	118.20	109.10
26	BB	181	A	N9-C4-C5	-7.58	102.77	105.80
26	BB	473	G	N3-C4-C5	-7.58	124.81	128.60
26	BB	1490	A	C4-C5-N7	7.58	114.49	110.70
26	BB	2273	A	N1-C2-N3	-7.58	125.51	129.30
26	BB	2281	A	C5-C6-N6	7.58	129.77	123.70
2	AB	26	A	N7-C8-N9	7.58	117.59	113.80
26	BB	479	A	C8-N9-C4	-7.58	102.77	105.80
26	BB	1110	G	C5-N7-C8	-7.58	100.51	104.30
26	BB	1387	A	C4-C5-N7	-7.58	106.91	110.70
26	BB	2647	U	C4'-C3'-C2'	-7.58	95.02	102.60
1	AA	1337	G	C5-C6-N1	7.58	115.29	111.50
25	BA	98	G	C5-N7-C8	7.58	108.09	104.30
26	BB	932	U	C5-C6-N1	7.58	126.49	122.70
26	BB	2274	A	N1-C2-N3	-7.58	125.51	129.30
1	AA	280	C	N3-C4-C5	7.58	124.93	121.90
1	AA	543	U	C2-N3-C4	-7.58	122.45	127.00
26	BB	71	A	C3'-C2'-C1'	7.58	107.56	101.50
26	BB	574	A	N1-C2-N3	-7.58	125.51	129.30
26	BB	2110	G	C5-C6-N1	7.58	115.29	111.50
26	BB	2384	U	N3-C2-O2	-7.58	116.90	122.20
26	BB	2478	A	C5-C6-N1	7.58	121.49	117.70
1	AA	1064	G	N3-C4-N9	7.58	130.55	126.00
26	BB	837	C	C6-N1-C2	-7.58	117.27	120.30
26	BB	1087	G	C5-C6-N1	-7.58	107.71	111.50
1	AA	94	G	C5-C6-N1	7.58	115.29	111.50
1	AA	900	A	N9-C4-C5	-7.58	102.77	105.80
1	AA	1131	G	C4-C5-C6	-7.58	114.25	118.80
1	AA	1341	U	C4'-C3'-C2'	-7.58	95.02	102.60
26	BB	68	G	N9-C1'-C2'	-7.58	103.67	112.00
26	BB	512	G	N7-C8-N9	7.58	116.89	113.10
26	BB	877	A	N9-C4-C5	7.58	108.83	105.80
26	BB	1704	C	N3-C2-O2	-7.58	116.60	121.90
26	BB	1934	C	O4'-C1'-N1	7.58	114.26	108.20
26	BB	2544	G	N7-C8-N9	7.58	116.89	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	117	G	C5-C6-O6	7.57	133.14	128.60
1	AA	397	A	C4-C5-N7	7.57	114.49	110.70
1	AA	558	G	N7-C8-N9	7.57	116.89	113.10
1	AA	774	G	C8-N9-C4	7.57	109.43	106.40
1	AA	928	G	N1-C6-O6	-7.57	115.36	119.90
1	AA	1515	G	C5'-C4'-O4'	7.57	118.19	109.10
26	BB	480	A	C3'-C2'-C1'	7.57	107.56	101.50
26	BB	497	A	N7-C8-N9	7.57	117.59	113.80
26	BB	787	C	C2-N3-C4	-7.57	116.11	119.90
26	BB	875	G	C5-C6-O6	-7.57	124.06	128.60
26	BB	1408	G	N3-C4-N9	-7.57	121.46	126.00
26	BB	2834	G	P-O3'-C3'	7.57	128.79	119.70
26	BB	1168	G	N9-C1'-C2'	-7.57	103.67	112.00
26	BB	2288	A	C4-C5-N7	-7.57	106.91	110.70
26	BB	2635	A	C5-C6-N1	7.57	121.49	117.70
1	AA	548	G	O4'-C4'-C3'	-7.57	96.43	104.00
1	AA	593	U	C4'-C3'-C2'	-7.57	95.03	102.60
25	BA	61	G	C3'-C2'-C1'	-7.57	95.44	101.50
26	BB	99	U	C5-C4-O4	7.57	130.44	125.90
26	BB	735	A	N7-C8-N9	7.57	117.58	113.80
26	BB	1148	U	C4-C5-C6	7.57	124.24	119.70
26	BB	2237	G	N1-C2-N3	7.57	128.44	123.90
26	BB	2308	G	C8-N9-C4	-7.57	103.37	106.40
26	BB	2758	A	C1'-O4'-C4'	-7.57	103.84	109.90
1	AA	231	U	C2-N3-C4	-7.57	122.46	127.00
1	AA	603	U	N3-C4-O4	7.57	124.70	119.40
1	AA	805	C	C4'-C3'-C2'	-7.57	95.03	102.60
26	BB	95	A	N3-C4-C5	-7.57	121.50	126.80
26	BB	1261	C	C4'-C3'-C2'	-7.57	95.03	102.60
26	BB	2224	G	C6-N1-C2	-7.57	120.56	125.10
26	BB	2426	A	C2-N3-C4	-7.57	106.81	110.60
26	BB	2432	A	C4'-C3'-C2'	-7.57	95.03	102.60
26	BB	2770	G	P-O3'-C3'	7.57	128.78	119.70
1	AA	680	C	N3-C4-N4	7.57	123.30	118.00
26	BB	85	G	C4-C5-N7	-7.57	107.77	110.80
26	BB	146	A	C6-N1-C2	-7.57	114.06	118.60
26	BB	449	A	O4'-C1'-N9	7.57	114.25	108.20
26	BB	779	U	O4'-C1'-N1	7.57	114.25	108.20
26	BB	1199	U	N3-C2-O2	-7.57	116.90	122.20
26	BB	1480	C	C5-C4-N4	-7.57	114.90	120.20
26	BB	1486	U	N3-C2-O2	-7.57	116.90	122.20
26	BB	2304	G	C4-C5-N7	7.57	113.83	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1075	U	C3'-C2'-C1'	7.57	107.55	101.50
26	BB	330	A	O4'-C1'-N9	7.57	114.25	108.20
26	BB	583	G	C2-N3-C4	7.57	115.68	111.90
26	BB	588	U	N1-C2-N3	7.57	119.44	114.90
26	BB	783	A	N9-C4-C5	-7.57	102.77	105.80
26	BB	784	G	O3'-P-O5'	-7.57	89.62	104.00
26	BB	1756	G	P-O3'-C3'	7.57	128.78	119.70
26	BB	2511	U	C2-N3-C4	-7.57	122.46	127.00
26	BB	2803	G	O4'-C1'-N9	7.57	114.25	108.20
1	AA	752	G	C4-C5-N7	-7.56	107.77	110.80
26	BB	1186	G	C1'-O4'-C4'	-7.56	103.85	109.90
26	BB	1503	A	O4'-C1'-N9	7.56	114.25	108.20
26	BB	1808	A	C5-C6-N6	-7.56	117.65	123.70
26	BB	2250	G	C1'-O4'-C4'	-7.56	103.85	109.90
26	BB	2532	G	N3-C4-C5	-7.56	124.82	128.60
1	AA	442	G	N1-C2-N3	-7.56	119.36	123.90
1	AA	572	A	C6-C5-N7	7.56	137.59	132.30
1	AA	740	U	C3'-C2'-C1'	7.56	107.55	101.50
2	AB	26	A	C6-N1-C2	-7.56	114.06	118.60
26	BB	246	C	C6-N1-C2	7.56	123.33	120.30
26	BB	924	G	N1-C2-N2	7.56	123.01	116.20
26	BB	1275	A	O4'-C1'-N9	7.56	114.25	108.20
26	BB	1359	A	O4'-C1'-N9	7.56	114.25	108.20
26	BB	2771	C	C5'-C4'-O4'	7.56	118.18	109.10
54	B3	47	TYR	CB-CG-CD1	7.56	125.54	121.00
1	AA	12	U	P-O3'-C3'	7.56	128.77	119.70
1	AA	1190	G	C8-N9-C4	-7.56	103.38	106.40
26	BB	2632	A	N1-C6-N6	7.56	123.14	118.60
26	BB	2693	G	N3-C4-C5	7.56	132.38	128.60
1	AA	238	A	C4'-C3'-C2'	-7.56	95.04	102.60
1	AA	1460	C	C5-C4-N4	7.56	125.49	120.20
2	AB	9	A	C3'-C2'-C1'	7.56	107.55	101.50
3	AC	41	A	C6-C5-N7	-7.56	127.01	132.30
7	AG	49	ASP	CB-CG-OD1	-7.56	111.50	118.30
12	AL	94	ARG	NE-CZ-NH2	-7.56	116.52	120.30
26	BB	58	G	C5-C6-O6	-7.56	124.06	128.60
26	BB	174	U	O4'-C1'-C2'	7.56	114.40	107.60
26	BB	788	A	O4'-C1'-N9	7.56	114.25	108.20
26	BB	2439	A	C3'-C2'-C1'	7.56	107.55	101.50
1	AA	311	C	C5-C6-N1	7.56	124.78	121.00
1	AA	681	A	C5-N7-C8	-7.56	100.12	103.90
4	AD	71	G	N9-C4-C5	-7.56	102.38	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1046	A	C4-C5-N7	7.56	114.48	110.70
26	BB	1348	C	C2-N3-C4	7.56	123.68	119.90
26	BB	1534	U	C2-N3-C4	-7.56	122.47	127.00
26	BB	1680	U	C4-C5-C6	7.56	124.23	119.70
26	BB	2223	G	C4-C5-N7	-7.56	107.78	110.80
1	AA	1368	A	N9-C4-C5	7.56	108.82	105.80
1	AA	1163	A	C4-C5-C6	7.55	120.78	117.00
26	BB	1901	A	N3-C4-C5	-7.55	121.51	126.80
1	AA	1106	G	C1'-O4'-C4'	-7.55	103.86	109.90
1	AA	1330	U	C4'-C3'-C2'	-7.55	95.05	102.60
26	BB	549	G	C5-C6-O6	-7.55	124.07	128.60
26	BB	1310	G	N7-C8-N9	7.55	116.88	113.10
26	BB	2652	C	C4'-C3'-C2'	-7.55	95.05	102.60
1	AA	67	C	N3-C4-C5	7.55	124.92	121.90
1	AA	742	G	N9-C4-C5	7.55	108.42	105.40
18	AR	14	PHE	CB-CG-CD1	7.55	126.09	120.80
26	BB	422	A	C5-N7-C8	7.55	107.68	103.90
26	BB	967	U	C2-N3-C4	-7.55	122.47	127.00
26	BB	1702	G	C4'-C3'-C2'	-7.55	95.05	102.60
26	BB	1715	G	N9-C4-C5	7.55	108.42	105.40
1	AA	316	C	N1-C1'-C2'	-7.55	103.70	112.00
1	AA	1413	A	C5-C6-N6	-7.55	117.66	123.70
42	BR	19	PHE	CB-CG-CD2	-7.55	115.52	120.80
1	AA	615	G	N3-C4-C5	-7.55	124.83	128.60
1	AA	1524	C	N3-C4-N4	7.55	123.28	118.00
26	BB	1802	A	C4'-C3'-C2'	-7.55	95.05	102.60
1	AA	217	C	N1-C2-O2	7.55	123.43	118.90
1	AA	1041	G	N3-C4-N9	7.55	130.53	126.00
25	BA	21	G	C6-N1-C2	-7.55	120.57	125.10
26	BB	184	C	O4'-C4'-C3'	7.55	112.14	106.10
26	BB	1943	U	O4'-C1'-N1	7.55	114.24	108.20
26	BB	2397	G	C5-C6-O6	-7.55	124.07	128.60
26	BB	2690	U	C3'-C2'-C1'	-7.55	95.46	101.50
1	AA	149	A	C6-N1-C2	7.54	123.13	118.60
1	AA	266	G	N3-C4-N9	7.54	130.53	126.00
1	AA	1321	U	N3-C4-O4	-7.54	114.12	119.40
4	AD	36	A	C8-N9-C4	-7.54	102.78	105.80
26	BB	1398	C	O4'-C4'-C3'	7.54	112.14	106.10
26	BB	2058	A	N9-C4-C5	7.54	108.82	105.80
26	BB	2469	A	C2-N3-C4	-7.54	106.83	110.60
1	AA	1036	A	C5-N7-C8	-7.54	100.13	103.90
26	BB	157	C	N3-C2-O2	-7.54	116.62	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	348	A	C4-C5-C6	-7.54	113.23	117.00
26	BB	361	G	N1-C2-N3	-7.54	119.37	123.90
26	BB	578	G	C2-N3-C4	7.54	115.67	111.90
26	BB	790	U	O4'-C1'-N1	7.54	114.23	108.20
26	BB	1941	C	N3-C4-C5	-7.54	118.88	121.90
26	BB	2062	A	N1-C6-N6	7.54	123.13	118.60
26	BB	2371	G	N3-C2-N2	7.54	125.18	119.90
26	BB	2712	C	C4-C5-C6	-7.54	113.63	117.40
26	BB	2721	A	C5-N7-C8	7.54	107.67	103.90
26	BB	2834	G	C1'-O4'-C4'	-7.54	103.86	109.90
1	AA	143	A	C2-N3-C4	7.54	114.37	110.60
1	AA	251	G	C6-N1-C2	-7.54	120.58	125.10
1	AA	487	A	N3-C4-C5	-7.54	121.52	126.80
1	AA	606	G	C5-C6-N1	7.54	115.27	111.50
1	AA	936	C	N3-C4-N4	7.54	123.28	118.00
1	AA	939	G	N3-C2-N2	-7.54	114.62	119.90
26	BB	160	A	C6-C5-N7	-7.54	127.02	132.30
26	BB	396	G	O4'-C4'-C3'	7.54	112.13	106.10
26	BB	687	C	O4'-C1'-N1	7.54	114.23	108.20
26	BB	993	G	C4'-C3'-C2'	-7.54	95.06	102.60
26	BB	1460	U	N1-C1'-C2'	7.54	123.80	114.00
26	BB	1645	G	N9-C1'-C2'	-7.54	103.70	112.00
26	BB	2409	G	N3-C4-C5	-7.54	124.83	128.60
1	AA	42	G	C5-C6-N1	7.54	115.27	111.50
1	AA	520	A	C4'-C3'-C2'	-7.54	95.06	102.60
2	AB	70	C	N1-C2-O2	7.54	123.42	118.90
26	BB	1746	A	N9-C4-C5	7.54	108.82	105.80
26	BB	1770	G	N9-C4-C5	7.54	108.42	105.40
26	BB	2607	G	N1-C2-N3	-7.54	119.38	123.90
26	BB	1225	G	C2'-C3'-O3'	7.54	126.08	109.50
26	BB	1406	U	N1-C2-O2	7.54	128.08	122.80
26	BB	2045	C	C2-N3-C4	7.54	123.67	119.90
26	BB	2166	U	C5-C6-N1	-7.54	118.93	122.70
26	BB	2310	C	C2-N3-C4	7.54	123.67	119.90
26	BB	2539	C	C4-C5-C6	-7.54	113.63	117.40
34	BJ	30	ARG	NE-CZ-NH2	-7.54	116.53	120.30
54	B3	16	ARG	NE-CZ-NH2	-7.54	116.53	120.30
1	AA	1386	G	O4'-C1'-N9	7.54	114.23	108.20
26	BB	1054	A	C2-N3-C4	7.54	114.37	110.60
26	BB	1824	G	C5-N7-C8	7.54	108.07	104.30
26	BB	2562	U	N3-C2-O2	-7.54	116.92	122.20
1	AA	108	G	C8-N9-C4	-7.54	103.39	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	892	A	C3'-C2'-C1'	-7.54	95.47	101.50
1	AA	974	A	N1-C6-N6	-7.54	114.08	118.60
4	AD	15	G	C4'-C3'-C2'	7.54	110.14	102.60
26	BB	853	C	N1-C2-N3	-7.54	113.92	119.20
26	BB	905	A	C6-N1-C2	7.54	123.12	118.60
26	BB	1140	C	N3-C4-N4	7.54	123.28	118.00
26	BB	2366	A	C5-N7-C8	-7.54	100.13	103.90
1	AA	318	G	N9-C4-C5	7.53	108.41	105.40
1	AA	588	G	C8-N9-C4	-7.53	103.39	106.40
26	BB	64	A	C8-N9-C4	-7.53	102.79	105.80
26	BB	303	G	N1-C2-N2	7.53	122.98	116.20
26	BB	2198	A	C4-C5-N7	-7.53	106.93	110.70
26	BB	2374	C	N3-C2-O2	-7.53	116.63	121.90
1	AA	25	C	C5-C4-N4	-7.53	114.93	120.20
1	AA	274	A	C2-N3-C4	7.53	114.37	110.60
26	BB	230	G	N3-C4-C5	-7.53	124.83	128.60
26	BB	615	U	C4-C5-C6	7.53	124.22	119.70
26	BB	1832	C	N3-C4-C5	-7.53	118.89	121.90
47	BW	8	ASP	CB-CG-OD1	-7.53	111.52	118.30
1	AA	758	C	C2-N3-C4	7.53	123.67	119.90
2	AB	2	G	N3-C4-N9	7.53	130.52	126.00
26	BB	271	G	C4-N9-C1'	-7.53	116.71	126.50
26	BB	717	C	C6-N1-C2	-7.53	117.29	120.30
1	AA	937	A	C5-N7-C8	7.53	107.66	103.90
1	AA	303	A	N9-C4-C5	7.53	108.81	105.80
1	AA	665	A	C1'-O4'-C4'	7.53	115.92	109.90
1	AA	1459	G	N3-C4-C5	-7.53	124.84	128.60
26	BB	20	C	O4'-C1'-N1	7.53	114.22	108.20
26	BB	1555	G	C4-C5-N7	7.53	113.81	110.80
26	BB	1679	A	N9-C4-C5	7.53	108.81	105.80
26	BB	1925	C	C1'-O4'-C4'	7.53	115.92	109.90
26	BB	2092	U	C2-N3-C4	-7.53	122.48	127.00
26	BB	2524	G	C5-C6-O6	-7.53	124.08	128.60
1	AA	435	A	C2-N3-C4	7.53	114.36	110.60
4	AD	36	A	C5-C6-N1	7.53	121.46	117.70
4	AD	72	C	N3-C2-O2	-7.53	116.63	121.90
13	AM	49	PHE	CB-CG-CD2	7.53	126.07	120.80
26	BB	1647	U	N1-C1'-C2'	7.53	123.78	114.00
26	BB	2668	G	N3-C4-C5	-7.53	124.84	128.60
26	BB	1685	C	C1'-O4'-C4'	-7.52	103.88	109.90
26	BB	2133	G	N3-C2-N2	7.52	125.17	119.90
26	BB	2172	U	O4'-C1'-N1	7.52	114.22	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2289	G	C5'-C4'-O4'	7.52	118.13	109.10
1	AA	101	A	N7-C8-N9	7.52	117.56	113.80
1	AA	487	A	N1-C2-N3	-7.52	125.54	129.30
1	AA	585	G	C6-N1-C2	-7.52	120.59	125.10
1	AA	950	U	C5-C4-O4	-7.52	121.39	125.90
26	BB	865	C	N3-C4-N4	7.52	123.27	118.00
26	BB	1984	G	N3-C4-C5	-7.52	124.84	128.60
26	BB	2579	C	N3-C4-N4	7.52	123.27	118.00
1	AA	342	C	C5-C6-N1	7.52	124.76	121.00
2	AB	21	A	C4'-C3'-C2'	-7.52	95.08	102.60
3	AC	40	G	N7-C8-N9	7.52	116.86	113.10
26	BB	250	G	N7-C8-N9	7.52	116.86	113.10
26	BB	2754	U	C3'-C2'-C1'	7.52	107.52	101.50
1	AA	971	G	C2-N3-C4	7.52	115.66	111.90
25	BA	73	A	C8-N9-C4	-7.52	102.79	105.80
26	BB	489	G	N3-C2-N2	7.52	125.16	119.90
26	BB	693	A	C4-C5-C6	-7.52	113.24	117.00
26	BB	1715	G	P-O3'-C3'	7.52	128.72	119.70
26	BB	2150	C	N1-C1'-C2'	-7.52	103.73	112.00
1	AA	1275	A	N1-C2-N3	-7.52	125.54	129.30
4	AD	73	A	N7-C8-N9	7.52	117.56	113.80
26	BB	663	G	N1-C2-N3	-7.52	119.39	123.90
26	BB	664	G	O4'-C1'-N9	7.52	114.22	108.20
26	BB	2323	G	C4-C5-C6	7.52	123.31	118.80
26	BB	2444	G	N1-C6-O6	-7.52	115.39	119.90
26	BB	2744	G	N3-C2-N2	-7.52	114.64	119.90
1	AA	134	G	C5'-C4'-O4'	7.52	118.12	109.10
1	AA	380	G	C4-C5-C6	7.52	123.31	118.80
1	AA	1062	U	P-O3'-C3'	7.52	128.72	119.70
1	AA	1404	C	O4'-C1'-N1	7.52	114.21	108.20
26	BB	85	G	N3-C4-C5	-7.52	124.84	128.60
1	AA	34	C	C6-N1-C2	-7.51	117.29	120.30
26	BB	159	G	N7-C8-N9	7.51	116.86	113.10
26	BB	894	U	C2-N3-C4	-7.51	122.49	127.00
26	BB	1584	U	N3-C2-O2	-7.51	116.94	122.20
26	BB	2066	C	O4'-C1'-C2'	7.51	114.36	107.60
26	BB	2077	A	C2-N3-C4	7.51	114.36	110.60
26	BB	2193	G	N3-C4-N9	7.51	130.51	126.00
54	B3	47	TYR	CB-CG-CD2	-7.51	116.49	121.00
1	AA	235	C	O4'-C1'-N1	7.51	114.21	108.20
1	AA	256	U	N1-C1'-C2'	-7.51	103.74	112.00
1	AA	368	U	N1-C2-O2	7.51	128.06	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	26	C	N1-C2-O2	7.51	123.41	118.90
26	BB	279	A	O4'-C4'-C3'	7.51	112.11	106.10
26	BB	2000	C	O4'-C1'-N1	7.51	114.21	108.20
26	BB	2669	G	N7-C8-N9	7.51	116.86	113.10
42	BR	20	ARG	NE-CZ-NH1	7.51	124.06	120.30
1	AA	101	A	N1-C6-N6	-7.51	114.09	118.60
1	AA	1322	C	N3-C4-C5	-7.51	118.89	121.90
4	AD	36	A	C4-C5-N7	-7.51	106.94	110.70
8	AH	19	ARG	NE-CZ-NH2	7.51	124.06	120.30
26	BB	98	G	N7-C8-N9	7.51	116.86	113.10
26	BB	930	G	C4-C5-N7	-7.51	107.80	110.80
26	BB	1704	C	C6-N1-C2	-7.51	117.30	120.30
26	BB	2529	G	C6-N1-C2	-7.51	120.59	125.10
26	BB	2662	A	C5-C6-N6	7.51	129.71	123.70
26	BB	2876	G	N9-C4-C5	7.51	108.41	105.40
1	AA	131	A	N1-C6-N6	7.51	123.11	118.60
1	AA	180	U	O4'-C1'-N1	7.51	114.21	108.20
1	AA	566	G	C5-C6-O6	-7.51	124.09	128.60
2	AB	40	C	O4'-C1'-N1	7.51	114.21	108.20
26	BB	226	A	C5-C6-N1	7.51	121.45	117.70
26	BB	1128	G	N3-C4-C5	-7.51	124.84	128.60
26	BB	1138	G	C5'-C4'-O4'	7.51	118.11	109.10
26	BB	2080	A	N1-C6-N6	-7.51	114.09	118.60
26	BB	2331	G	C4-C5-N7	-7.51	107.80	110.80
26	BB	2649	C	N1-C2-N3	7.51	124.46	119.20
26	BB	2726	A	C4-C5-C6	7.51	120.75	117.00
1	AA	168	G	N9-C1'-C2'	-7.51	103.74	112.00
1	AA	176	C	N3-C4-N4	7.51	123.25	118.00
1	AA	271	C	C5-C6-N1	-7.51	117.25	121.00
26	BB	1099	G	C5-N7-C8	-7.51	100.55	104.30
26	BB	1202	G	C4-C5-C6	-7.51	114.30	118.80
26	BB	1422	G	C5-N7-C8	-7.51	100.55	104.30
26	BB	1620	G	C8-N9-C4	7.51	109.40	106.40
26	BB	1778	U	N3-C4-O4	7.51	124.66	119.40
26	BB	2027	G	N7-C8-N9	7.51	116.85	113.10
5	AE	95	TRP	CB-CG-CD2	7.50	136.36	126.60
10	AJ	95	ARG	NE-CZ-NH1	7.50	124.05	120.30
26	BB	579	G	N1-C6-O6	-7.50	115.40	119.90
26	BB	1906	G	C6-N1-C2	-7.50	120.60	125.10
26	BB	2267	A	C6-C5-N7	7.50	137.55	132.30
1	AA	372	C	C1'-O4'-C4'	-7.50	103.90	109.90
1	AA	836	G	N3-C4-C5	-7.50	124.85	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	791	C	N3-C4-C5	-7.50	118.90	121.90
26	BB	1469	A	C5-N7-C8	-7.50	100.15	103.90
26	BB	2036	C	C6-N1-C2	-7.50	117.30	120.30
1	AA	758	C	C1'-O4'-C4'	7.50	115.90	109.90
1	AA	1203	C	O4'-C1'-N1	7.50	114.20	108.20
22	AV	1	PRO	CA-N-CD	-7.50	101.00	111.50
26	BB	2242	G	N9-C4-C5	-7.50	102.40	105.40
26	BB	2300	C	C5-C4-N4	-7.50	114.95	120.20
26	BB	215	G	O4'-C1'-C2'	-7.50	98.30	105.80
26	BB	386	G	N3-C4-C5	-7.50	124.85	128.60
1	AA	412	A	N9-C4-C5	7.50	108.80	105.80
1	AA	533	A	C6-C5-N7	7.50	137.55	132.30
1	AA	740	U	N3-C4-C5	-7.50	110.10	114.60
3	AC	47	C	N3-C4-C5	-7.50	118.90	121.90
26	BB	253	C	N3-C2-O2	-7.50	116.65	121.90
26	BB	701	G	O4'-C1'-N9	7.50	114.20	108.20
26	BB	784	G	N1-C6-O6	-7.50	115.40	119.90
26	BB	1763	G	C8-N9-C1'	7.50	136.75	127.00
26	BB	2423	U	C2-N3-C4	-7.50	122.50	127.00
1	AA	256	U	C2-N3-C4	-7.50	122.50	127.00
1	AA	1083	U	N1-C2-O2	7.50	128.05	122.80
26	BB	236	C	C3'-C2'-C1'	7.50	107.50	101.50
26	BB	2143	C	C4-C5-C6	-7.50	113.65	117.40
26	BB	2807	U	N3-C2-O2	-7.50	116.95	122.20
4	AD	65	G	N3-C4-C5	-7.50	124.85	128.60
26	BB	349	U	C4-C5-C6	7.50	124.20	119.70
26	BB	423	A	N7-C8-N9	-7.50	110.05	113.80
26	BB	1743	G	C1'-O4'-C4'	-7.50	103.90	109.90
26	BB	1816	C	C6-N1-C2	7.50	123.30	120.30
26	BB	1980	G	C5-C6-N1	7.50	115.25	111.50
26	BB	2070	A	C4-C5-C6	-7.50	113.25	117.00
26	BB	2731	G	C5'-C4'-O4'	7.50	118.09	109.10
26	BB	2867	G	N1-C2-N3	-7.50	119.40	123.90
1	AA	529	G	C5-C6-O6	7.49	133.10	128.60
1	AA	1047	G	C4-C5-N7	7.49	113.80	110.80
26	BB	1182	G	N3-C4-C5	-7.49	124.85	128.60
26	BB	2316	G	N3-C4-N9	7.49	130.50	126.00
1	AA	1449	C	C5-C4-N4	7.49	125.44	120.20
3	AC	28	U	C4-C5-C6	7.49	124.19	119.70
26	BB	96	C	C4'-C3'-C2'	-7.49	95.11	102.60
26	BB	2321	U	C6-N1-C2	-7.49	116.50	121.00
26	BB	2516	A	N1-C2-N3	-7.49	125.55	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	223	A	O5'-P-OP2	-7.49	98.96	105.70
1	AA	1012	A	C4-C5-C6	-7.49	113.25	117.00
1	AA	1108	G	C4-C5-N7	-7.49	107.80	110.80
26	BB	176	A	N7-C8-N9	7.49	117.55	113.80
26	BB	815	C	N1-C2-O2	7.49	123.39	118.90
26	BB	2606	C	C5-C4-N4	-7.49	114.96	120.20
1	AA	266	G	O5'-C5'-C4'	-7.49	97.47	111.70
1	AA	583	A	O4'-C4'-C3'	7.49	112.09	106.10
1	AA	717	U	C4-C5-C6	7.49	124.19	119.70
1	AA	780	A	C5-N7-C8	-7.49	100.16	103.90
1	AA	1317	C	C4'-C3'-C2'	-7.49	95.11	102.60
1	AA	1322	C	C2-N1-C1'	7.49	127.04	118.80
1	AA	1386	G	N1-C2-N2	7.49	122.94	116.20
1	AA	1476	A	N1-C6-N6	7.49	123.09	118.60
4	AD	45	A	C5-C6-N1	7.49	121.44	117.70
26	BB	530	G	C8-N9-C4	-7.49	103.41	106.40
26	BB	1363	C	N3-C4-C5	7.49	124.89	121.90
26	BB	1525	A	C5-C6-N1	7.49	121.44	117.70
26	BB	2003	A	O4'-C1'-N9	7.49	114.19	108.20
28	BD	42	ARG	NE-CZ-NH1	-7.49	116.56	120.30
1	AA	963	G	C5-C6-O6	-7.49	124.11	128.60
1	AA	1117	A	C5-N7-C8	-7.49	100.16	103.90
26	BB	87	U	N1-C1'-C2'	-7.49	103.76	112.00
26	BB	670	A	N7-C8-N9	7.49	117.54	113.80
26	BB	805	G	O4'-C1'-N9	7.49	114.19	108.20
26	BB	2237	G	N1-C2-N2	-7.49	109.46	116.20
26	BB	2421	G	N9-C4-C5	7.49	108.39	105.40
1	AA	340	U	C5-C6-N1	-7.49	118.96	122.70
1	AA	780	A	N7-C8-N9	7.49	117.54	113.80
26	BB	967	U	C5-C6-N1	-7.49	118.96	122.70
26	BB	1503	A	N9-C4-C5	7.49	108.79	105.80
26	BB	1527	G	C6-C5-N7	-7.49	125.91	130.40
26	BB	2099	U	C4-C5-C6	7.49	124.19	119.70
26	BB	2245	U	N1-C2-N3	7.49	119.39	114.90
26	BB	2866	U	C1'-O4'-C4'	-7.49	103.91	109.90
25	BA	9	G	C6-C5-N7	-7.48	125.91	130.40
26	BB	491	G	N7-C8-N9	-7.48	109.36	113.10
26	BB	624	C	C2-N3-C4	7.48	123.64	119.90
1	AA	1021	A	C4-C5-N7	-7.48	106.96	110.70
1	AA	1399	C	O4'-C1'-C2'	-7.48	98.32	105.80
2	AB	36	A	O4'-C1'-N9	7.48	114.19	108.20
25	BA	43	C	P-O3'-C3'	7.48	128.68	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	165	A	C4'-C3'-C2'	7.48	110.08	102.60
26	BB	397	U	C3'-C2'-C1'	7.48	107.48	101.50
26	BB	528	A	C1'-O4'-C4'	-7.48	103.91	109.90
26	BB	676	A	C2-N3-C4	7.48	114.34	110.60
26	BB	1487	U	C2-N3-C4	-7.48	122.51	127.00
26	BB	1842	G	C8-N9-C4	-7.48	103.41	106.40
26	BB	1985	C	N3-C4-N4	7.48	123.24	118.00
26	BB	2538	C	O4'-C1'-N1	7.48	114.19	108.20
1	AA	466	A	C4'-C3'-C2'	-7.48	95.12	102.60
1	AA	996	A	O4'-C1'-N9	7.48	114.19	108.20
26	BB	857	G	N3-C4-N9	7.48	130.49	126.00
26	BB	971	G	C5-C6-N1	-7.48	107.76	111.50
26	BB	2539	C	C2-N3-C4	7.48	123.64	119.90
26	BB	1520	U	N1-C2-N3	7.48	119.39	114.90
26	BB	1524	G	N3-C4-N9	7.48	130.49	126.00
26	BB	2471	A	C4-C5-C6	-7.48	113.26	117.00
1	AA	47	C	C5-C6-N1	-7.48	117.26	121.00
1	AA	76	G	N1-C6-O6	7.48	124.39	119.90
1	AA	573	A	C2-N3-C4	-7.48	106.86	110.60
1	AA	1033	G	N1-C6-O6	7.48	124.39	119.90
1	AA	1511	G	N9-C4-C5	7.48	108.39	105.40
1	AA	1531	A	N1-C2-N3	-7.48	125.56	129.30
6	AF	130	ARG	NE-CZ-NH2	7.48	124.04	120.30
24	AX	32	ARG	NE-CZ-NH1	7.48	124.04	120.30
26	BB	1409	U	O4'-C1'-N1	7.48	114.18	108.20
26	BB	2780	G	N1-C6-O6	-7.48	115.41	119.90
1	AA	494	G	C6-C5-N7	-7.48	125.92	130.40
1	AA	708	C	N3-C4-C5	7.48	124.89	121.90
7	AG	3	TYR	CB-CG-CD2	-7.48	116.51	121.00
25	BA	35	C	N3-C4-C5	7.48	124.89	121.90
25	BA	50	A	C4'-C3'-C2'	-7.48	95.12	102.60
26	BB	1386	C	N3-C4-N4	7.48	123.23	118.00
26	BB	2166	U	C4'-C3'-C2'	-7.48	95.12	102.60
1	AA	1006	G	C5'-C4'-O4'	7.47	118.07	109.10
1	AA	1439	G	C5-C6-O6	-7.47	124.11	128.60
2	AB	28	C	N3-C4-C5	-7.47	118.91	121.90
26	BB	350	G	N9-C4-C5	7.47	108.39	105.40
26	BB	674	G	O4'-C1'-N9	7.47	114.18	108.20
26	BB	777	G	C8-N9-C4	-7.47	103.41	106.40
26	BB	1188	U	N3-C2-O2	-7.47	116.97	122.20
26	BB	2617	U	N1-C1'-C2'	-7.47	103.78	112.00
26	BB	2816	G	C4-C5-C6	7.47	123.28	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	11	G	N9-C1'-C2'	-7.47	103.78	112.00
1	AA	80	A	N7-C8-N9	7.47	117.54	113.80
1	AA	481	G	C5-C6-O6	-7.47	124.12	128.60
1	AA	542	G	N3-C4-C5	-7.47	124.86	128.60
1	AA	548	G	C6-C5-N7	-7.47	125.92	130.40
1	AA	597	G	C4-C5-C6	7.47	123.28	118.80
1	AA	1145	A	C8-N9-C4	-7.47	102.81	105.80
1	AA	1319	A	C3'-C2'-C1'	-7.47	95.52	101.50
1	AA	1385	G	N3-C4-C5	-7.47	124.86	128.60
7	AG	43	ARG	CD-NE-CZ	7.47	134.06	123.60
26	BB	111	A	C5-N7-C8	-7.47	100.16	103.90
26	BB	1055	G	C5-C6-O6	-7.47	124.12	128.60
26	BB	1113	U	C2-N3-C4	-7.47	122.52	127.00
26	BB	1297	C	N1-C2-O2	7.47	123.38	118.90
26	BB	1634	A	N1-C2-N3	-7.47	125.56	129.30
26	BB	1786	A	N7-C8-N9	7.47	117.54	113.80
26	BB	1856	U	O4'-C1'-N1	7.47	114.18	108.20
1	AA	1418	A	N9-C4-C5	7.47	108.79	105.80
26	BB	1067	A	C4-C5-C6	-7.47	113.26	117.00
26	BB	1086	A	C6-N1-C2	7.47	123.08	118.60
26	BB	2391	G	N3-C4-C5	-7.47	124.86	128.60
1	AA	457	G	N3-C4-C5	-7.47	124.86	128.60
1	AA	1174	G	O4'-C1'-N9	7.47	114.18	108.20
26	BB	604	G	N1-C6-O6	7.47	124.38	119.90
1	AA	270	A	N9-C4-C5	7.47	108.79	105.80
1	AA	881	G	C2-N3-C4	7.47	115.63	111.90
26	BB	464	U	O4'-C1'-N1	7.47	114.17	108.20
26	BB	1415	U	C5-C4-O4	-7.47	121.42	125.90
1	AA	626	G	N7-C8-N9	7.47	116.83	113.10
1	AA	962	C	C4'-C3'-C2'	-7.47	95.13	102.60
1	AA	1053	G	C5-C6-O6	-7.47	124.12	128.60
1	AA	1514	G	N3-C4-C5	-7.47	124.87	128.60
3	AC	23	C	C2-N3-C4	7.47	123.63	119.90
26	BB	406	G	N3-C2-N2	-7.47	114.67	119.90
26	BB	892	A	C2-N3-C4	7.47	114.33	110.60
26	BB	1490	A	P-O3'-C3'	7.47	128.66	119.70
26	BB	1885	A	O4'-C1'-N9	7.47	114.17	108.20
26	BB	2341	G	C5'-C4'-O4'	7.47	118.06	109.10
1	AA	132	C	O4'-C1'-N1	7.46	114.17	108.20
1	AA	405	U	N1-C2-O2	7.46	128.03	122.80
1	AA	994	A	N7-C8-N9	-7.46	110.07	113.80
1	AA	1300	G	C5-N7-C8	-7.46	100.57	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	46	G	N9-C4-C5	7.46	108.39	105.40
26	BB	1122	G	C6-C5-N7	7.46	134.88	130.40
26	BB	1261	C	C3'-C2'-C1'	7.46	107.47	101.50
26	BB	1281	G	C3'-C2'-C1'	7.46	107.47	101.50
26	BB	1740	G	C5-C6-O6	-7.46	124.12	128.60
26	BB	1973	G	C5-C6-N1	7.46	115.23	111.50
26	BB	2136	G	N3-C4-N9	7.46	130.48	126.00
26	BB	2576	G	O4'-C1'-N9	7.46	114.17	108.20
1	AA	203	G	N9-C4-C5	7.46	108.39	105.40
26	BB	2377	A	C4-C5-C6	7.46	120.73	117.00
26	BB	2777	G	N1-C6-O6	-7.46	115.42	119.90
1	AA	117	G	C6-N1-C2	-7.46	120.62	125.10
1	AA	1068	G	N1-C6-O6	7.46	124.38	119.90
1	AA	1368	A	N7-C8-N9	7.46	117.53	113.80
25	BA	6	G	O4'-C1'-N9	7.46	114.17	108.20
26	BB	505	A	C2-N3-C4	-7.46	106.87	110.60
26	BB	2648	G	C5-N7-C8	-7.46	100.57	104.30
1	AA	57	G	C4-C5-N7	-7.46	107.82	110.80
1	AA	149	A	O4'-C1'-N9	7.46	114.17	108.20
1	AA	353	A	N1-C6-N6	-7.46	114.12	118.60
25	BA	41	G	C8-N9-C4	-7.46	103.42	106.40
26	BB	1117	C	C5-C4-N4	-7.46	114.98	120.20
27	BC	53	ARG	NE-CZ-NH2	7.46	124.03	120.30
1	AA	678	U	C1'-O4'-C4'	7.46	115.87	109.90
1	AA	1053	G	C2-N3-C4	7.46	115.63	111.90
26	BB	730	A	C4'-C3'-C2'	7.46	110.06	102.60
26	BB	911	A	N9-C4-C5	7.46	108.78	105.80
26	BB	1221	C	N3-C4-C5	-7.46	118.92	121.90
26	BB	1302	A	C8-N9-C4	-7.46	102.82	105.80
26	BB	1448	G	N1-C2-N3	-7.46	119.42	123.90
26	BB	2582	G	O4'-C4'-C3'	7.46	112.07	106.10
27	BC	111	PHE	CB-CG-CD1	-7.46	115.58	120.80
1	AA	49	U	O4'-C1'-N1	7.46	114.16	108.20
1	AA	570	G	C5-C6-O6	-7.46	124.13	128.60
1	AA	1492	A	C5-C6-N1	7.46	121.43	117.70
26	BB	21	A	C4-C5-N7	7.46	114.43	110.70
26	BB	1665	A	N1-C2-N3	-7.46	125.57	129.30
26	BB	1686	C	N1-C2-O2	-7.46	114.43	118.90
26	BB	2128	G	N1-C6-O6	7.46	124.37	119.90
1	AA	53	A	N1-C2-N3	-7.46	125.57	129.30
1	AA	288	A	C4-C5-N7	-7.46	106.97	110.70
26	BB	369	U	N3-C2-O2	-7.46	116.98	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1112	G	N9-C1'-C2'	-7.46	103.80	112.00
26	BB	1836	C	C5'-C4'-O4'	7.46	118.05	109.10
26	BB	1867	G	N9-C4-C5	7.46	108.38	105.40
26	BB	2735	G	C3'-C2'-C1'	-7.46	95.54	101.50
1	AA	606	G	N9-C4-C5	7.45	108.38	105.40
1	AA	1106	G	N1-C6-O6	-7.45	115.43	119.90
26	BB	1454	C	N1-C2-O2	7.45	123.37	118.90
26	BB	2309	A	N3-C4-C5	7.45	132.02	126.80
26	BB	2732	G	N3-C4-N9	7.45	130.47	126.00
1	AA	1486	G	C8-N9-C4	7.45	109.38	106.40
26	BB	273	G	C2-N3-C4	7.45	115.63	111.90
26	BB	548	G	C4-C5-C6	-7.45	114.33	118.80
1	AA	569	C	C4-C5-C6	7.45	121.12	117.40
1	AA	1227	A	C8-N9-C4	-7.45	102.82	105.80
26	BB	152	A	C5'-C4'-O4'	7.45	118.04	109.10
26	BB	669	G	N3-C2-N2	-7.45	114.69	119.90
26	BB	710	U	C6-N1-C2	-7.45	116.53	121.00
26	BB	900	A	C5'-C4'-C3'	-7.45	104.08	116.00
26	BB	1119	U	N1-C1'-C2'	-7.45	103.80	112.00
26	BB	1470	A	N1-C6-N6	7.45	123.07	118.60
26	BB	2134	A	O4'-C1'-N9	7.45	114.16	108.20
26	BB	2481	G	C8-N9-C4	-7.45	103.42	106.40
26	BB	2515	C	C4'-C3'-C2'	-7.45	95.15	102.60
33	BI	123	ARG	NE-CZ-NH1	7.45	124.03	120.30
1	AA	504	C	N1-C2-N3	7.45	124.41	119.20
1	AA	881	G	O4'-C1'-N9	7.45	114.16	108.20
19	AS	21	VAL	CA-CB-CG2	7.45	122.07	110.90
25	BA	15	A	O4'-C1'-N9	7.45	114.16	108.20
26	BB	82	U	C4-C5-C6	7.45	124.17	119.70
26	BB	210	C	C4'-C3'-C2'	-7.45	95.15	102.60
26	BB	2326	C	C2-N3-C4	7.45	123.62	119.90
1	AA	684	U	N1-C1'-C2'	-7.45	103.81	112.00
2	AB	45	U	N1-C2-N3	7.45	119.37	114.90
25	BA	109	A	C2-N3-C4	7.45	114.32	110.60
26	BB	38	A	O4'-C1'-N9	7.45	114.16	108.20
26	BB	467	G	C8-N9-C1'	7.45	136.68	127.00
26	BB	1215	G	C3'-C2'-C1'	-7.45	95.54	101.50
1	AA	64	G	C5-C6-N1	7.45	115.22	111.50
1	AA	947	G	N1-C2-N3	-7.45	119.43	123.90
26	BB	114	U	C2'-C3'-O3'	7.45	125.88	109.50
26	BB	894	U	C5-C6-N1	-7.45	118.98	122.70
26	BB	1846	G	C8-N9-C4	-7.45	103.42	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2458	G	N3-C4-N9	7.45	130.47	126.00
26	BB	2464	G	C5-C6-N1	7.45	115.22	111.50
26	BB	2682	A	N7-C8-N9	7.45	117.52	113.80
39	BO	55	ARG	NE-CZ-NH2	7.45	124.02	120.30
26	BB	1386	C	C6-N1-C2	7.44	123.28	120.30
26	BB	2587	A	C1'-O4'-C4'	-7.44	103.94	109.90
1	AA	174	A	C5-N7-C8	-7.44	100.18	103.90
1	AA	306	A	C5-C6-N1	7.44	121.42	117.70
1	AA	334	C	N1-C2-O2	7.44	123.37	118.90
1	AA	655	A	N9-C4-C5	7.44	108.78	105.80
1	AA	660	C	O4'-C1'-N1	7.44	114.16	108.20
26	BB	149	A	C8-N9-C4	-7.44	102.82	105.80
26	BB	869	G	C6-C5-N7	-7.44	125.93	130.40
26	BB	1021	A	C3'-C2'-C1'	7.44	107.45	101.50
26	BB	1047	G	C2-N3-C4	-7.44	108.18	111.90
26	BB	1293	C	P-O3'-C3'	7.44	128.63	119.70
26	BB	2029	G	O4'-C1'-N9	7.44	114.15	108.20
26	BB	2277	G	N3-C4-N9	7.44	130.47	126.00
26	BB	2814	A	N1-C6-N6	-7.44	114.13	118.60
26	BB	1010	A	C2-N3-C4	7.44	114.32	110.60
26	BB	1324	G	N7-C8-N9	-7.44	109.38	113.10
26	BB	1684	G	C5-C6-N1	7.44	115.22	111.50
26	BB	2628	C	C6-N1-C2	-7.44	117.32	120.30
1	AA	1242	G	N9-C4-C5	7.44	108.38	105.40
26	BB	584	C	N3-C4-N4	7.44	123.21	118.00
26	BB	990	A	P-O3'-C3'	7.44	128.63	119.70
26	BB	2662	A	C5'-C4'-O4'	7.44	118.03	109.10
1	AA	178	C	C4-C5-C6	-7.44	113.68	117.40
26	BB	361	G	C5-C6-O6	7.44	133.06	128.60
26	BB	438	G	N1-C2-N3	7.44	128.36	123.90
26	BB	2078	C	C1'-O4'-C4'	-7.44	103.95	109.90
26	BB	2178	C	N1-C2-O2	7.44	123.36	118.90
26	BB	2298	A	N1-C6-N6	-7.44	114.14	118.60
26	BB	1207	C	C2-N3-C4	7.44	123.62	119.90
26	BB	2845	U	N1-C2-N3	7.44	119.36	114.90
1	AA	68	G	N1-C2-N3	-7.43	119.44	123.90
1	AA	1075	U	C1'-O4'-C4'	7.43	115.85	109.90
26	BB	1921	G	C4-C5-N7	7.43	113.77	110.80
26	BB	2553	G	N7-C8-N9	7.43	116.82	113.10
1	AA	464	U	N1-C2-O2	7.43	128.00	122.80
2	AB	30	G	N7-C8-N9	7.43	116.82	113.10
26	BB	462	C	N3-C4-C5	7.43	124.87	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	881	G	C8-N9-C4	-7.43	103.43	106.40
26	BB	1732	C	N3-C4-N4	7.43	123.20	118.00
26	BB	2157	G	C2-N3-C4	7.43	115.62	111.90
26	BB	2412	A	N3-C4-C5	-7.43	121.60	126.80
37	BM	120	PRO	CA-N-CD	-7.43	101.09	111.50
56	B5	5	PHE	CB-CG-CD1	-7.43	115.60	120.80
26	BB	1942	C	N1-C2-N3	-7.43	114.00	119.20
1	AA	698	G	C4-C5-C6	7.43	123.26	118.80
1	AA	1333	A	C8-N9-C4	-7.43	102.83	105.80
26	BB	1605	C	C4'-C3'-C2'	-7.43	95.17	102.60
26	BB	1859	U	C5-C6-N1	-7.43	118.98	122.70
26	BB	2005	A	O4'-C1'-N9	7.43	114.14	108.20
26	BB	2522	U	C5-C4-O4	-7.43	121.44	125.90
26	BB	1004	U	C6-N1-C2	-7.43	116.54	121.00
26	BB	2546	U	N3-C2-O2	-7.43	117.00	122.20
1	AA	545	C	C5-C6-N1	-7.43	117.29	121.00
4	AD	14	A	C4-C5-N7	-7.43	106.99	110.70
6	AF	17	TRP	CD1-CG-CD2	-7.43	100.36	106.30
25	BA	113	C	C5-C4-N4	7.43	125.40	120.20
26	BB	577	G	C5-C6-N1	7.43	115.21	111.50
26	BB	765	C	O4'-C1'-N1	7.43	114.14	108.20
26	BB	1084	A	C1'-O4'-C4'	-7.43	103.96	109.90
26	BB	1804	C	C5-C6-N1	7.43	124.71	121.00
26	BB	2066	C	C5'-C4'-O4'	7.43	118.01	109.10
26	BB	2298	A	N3-C4-C5	-7.43	121.60	126.80
26	BB	2328	A	O4'-C1'-N9	7.43	114.14	108.20
1	AA	308	C	C5'-C4'-O4'	-7.42	100.19	109.10
1	AA	313	A	C5'-C4'-O4'	7.42	118.01	109.10
1	AA	1276	G	C2-N3-C4	7.42	115.61	111.90
2	AB	29	G	N7-C8-N9	7.42	116.81	113.10
26	BB	1224	U	P-O3'-C3'	7.42	128.61	119.70
26	BB	1613	G	C3'-C2'-C1'	-7.42	95.56	101.50
26	BB	1658	C	N3-C4-C5	7.42	124.87	121.90
26	BB	1944	U	C2-N3-C4	7.42	131.46	127.00
26	BB	2357	G	C1'-O4'-C4'	-7.42	103.96	109.90
26	BB	2597	G	C5-C6-O6	7.42	133.06	128.60
26	BB	2613	U	N1-C2-O2	-7.42	117.60	122.80
1	AA	1537	U	C6-N1-C2	-7.42	116.55	121.00
26	BB	379	G	C6-C5-N7	7.42	134.85	130.40
26	BB	2141	G	C5'-C4'-O4'	7.42	118.01	109.10
26	BB	2687	U	P-O3'-C3'	7.42	128.61	119.70
26	BB	2733	A	C5'-C4'-C3'	-7.42	104.12	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	42	G	O4'-C1'-N9	7.42	114.14	108.20
1	AA	1258	G	C1'-O4'-C4'	-7.42	103.96	109.90
2	AB	68	C	N3-C2-O2	-7.42	116.70	121.90
26	BB	182	A	O4'-C1'-N9	7.42	114.14	108.20
26	BB	266	G	C5-C6-N1	7.42	115.21	111.50
26	BB	1430	G	N7-C8-N9	7.42	116.81	113.10
26	BB	2401	U	P-O3'-C3'	7.42	128.61	119.70
26	BB	2412	A	N1-C2-N3	-7.42	125.59	129.30
1	AA	1070	U	C5'-C4'-O4'	7.42	118.00	109.10
26	BB	295	G	N7-C8-N9	7.42	116.81	113.10
26	BB	1017	G	O4'-C1'-N9	7.42	114.14	108.20
26	BB	1540	G	N9-C1'-C2'	-7.42	103.84	112.00
1	AA	548	G	N1-C6-O6	7.42	124.35	119.90
2	AB	43	G	N3-C4-C5	-7.42	124.89	128.60
25	BA	87	U	C4-C5-C6	7.42	124.15	119.70
25	BA	102	G	N3-C4-C5	-7.42	124.89	128.60
26	BB	1018	U	C5-C4-O4	-7.42	121.45	125.90
26	BB	1249	U	C2-N3-C4	-7.42	122.55	127.00
26	BB	1473	G	N1-C2-N2	-7.42	109.52	116.20
26	BB	1687	G	N3-C4-C5	-7.42	124.89	128.60
26	BB	2540	C	O4'-C1'-N1	7.42	114.13	108.20
26	BB	2627	G	N1-C2-N3	7.42	128.35	123.90
1	AA	190	A	N3-C4-C5	-7.42	121.61	126.80
1	AA	374	A	C5'-C4'-O4'	7.42	118.00	109.10
1	AA	418	C	O4'-C1'-N1	7.42	114.13	108.20
1	AA	571	U	C2-N3-C4	-7.42	122.55	127.00
1	AA	622	A	C6-N1-C2	7.42	123.05	118.60
1	AA	1247	U	C4'-C3'-C2'	-7.42	95.18	102.60
1	AA	1445	U	C5-C6-N1	7.42	126.41	122.70
26	BB	1488	C	N3-C2-O2	-7.42	116.71	121.90
26	BB	1612	C	C3'-C2'-C1'	-7.42	95.57	101.50
26	BB	2003	A	C4-C5-N7	7.42	114.41	110.70
26	BB	2374	C	C2-N3-C4	-7.42	116.19	119.90
26	BB	2429	G	N9-C4-C5	7.42	108.37	105.40
1	AA	767	A	N9-C4-C5	7.42	108.77	105.80
1	AA	803	G	C5'-C4'-O4'	7.42	118.00	109.10
1	AA	1078	U	C3'-C2'-C1'	7.42	107.43	101.50
4	AD	2	G	C8-N9-C4	-7.42	103.43	106.40
26	BB	536	G	C4'-C3'-C2'	-7.42	95.19	102.60
26	BB	2122	U	C3'-C2'-C1'	7.42	107.43	101.50
26	BB	144	A	N9-C4-C5	7.41	108.77	105.80
26	BB	353	C	N1-C2-O2	7.41	123.35	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	518	G	C5-C6-N1	7.41	115.21	111.50
26	BB	1190	G	C1'-O4'-C4'	-7.41	103.97	109.90
26	BB	1436	G	N1-C6-O6	7.41	124.35	119.90
26	BB	2576	G	C1'-O4'-C4'	-7.41	103.97	109.90
1	AA	542	G	N7-C8-N9	7.41	116.81	113.10
26	BB	2484	G	C6-N1-C2	7.41	129.55	125.10
1	AA	253	A	C8-N9-C4	-7.41	102.84	105.80
1	AA	589	U	C1'-O4'-C4'	-7.41	103.97	109.90
1	AA	646	G	N3-C2-N2	7.41	125.09	119.90
1	AA	1249	C	N1-C2-N3	7.41	124.39	119.20
1	AA	1497	G	C4-C5-C6	7.41	123.25	118.80
15	AO	53	ARG	NE-CZ-NH1	7.41	124.01	120.30
26	BB	502	A	C5'-C4'-C3'	-7.41	104.14	116.00
26	BB	674	G	N3-C2-N2	7.41	125.09	119.90
1	AA	70	U	C5'-C4'-C3'	-7.41	104.14	116.00
1	AA	1279	G	C5-C6-O6	7.41	133.05	128.60
1	AA	1497	G	N1-C2-N3	-7.41	119.45	123.90
24	AX	44	ARG	NH1-CZ-NH2	-7.41	111.25	119.40
26	BB	146	A	C5-C6-N1	7.41	121.40	117.70
26	BB	413	C	O4'-C1'-N1	7.41	114.13	108.20
26	BB	1403	A	N7-C8-N9	-7.41	110.10	113.80
26	BB	1465	G	N9-C4-C5	-7.41	102.44	105.40
26	BB	1211	C	N3-C2-O2	-7.41	116.72	121.90
26	BB	1892	C	O4'-C1'-N1	7.41	114.13	108.20
26	BB	1897	G	C6-C5-N7	-7.41	125.96	130.40
1	AA	382	A	C3'-C2'-C1'	-7.41	95.58	101.50
1	AA	396	C	C4-C5-C6	7.41	121.10	117.40
1	AA	412	A	C8-N9-C4	-7.41	102.84	105.80
1	AA	926	G	N3-C2-N2	7.41	125.08	119.90
1	AA	926	G	N3-C4-N9	7.41	130.44	126.00
1	AA	1105	A	C8-N9-C4	-7.41	102.84	105.80
1	AA	1108	G	C5-C6-O6	-7.41	124.16	128.60
26	BB	2126	A	N3-C4-C5	7.41	131.98	126.80
26	BB	2633	G	N3-C4-C5	-7.41	124.90	128.60
26	BB	2776	A	C6-N1-C2	-7.41	114.16	118.60
1	AA	808	C	C5-C6-N1	7.40	124.70	121.00
1	AA	1169	A	C6-C5-N7	7.40	137.48	132.30
26	BB	708	G	C6-N1-C2	7.40	129.54	125.10
26	BB	1339	G	N3-C4-C5	-7.40	124.90	128.60
26	BB	2256	G	C4-C5-C6	7.40	123.24	118.80
1	AA	63	C	C6-N1-C2	-7.40	117.34	120.30
1	AA	925	G	C2-N3-C4	7.40	115.60	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	713	G	C6-C5-N7	7.40	134.84	130.40
26	BB	766	U	N1-C2-N3	7.40	119.34	114.90
26	BB	1628	G	N7-C8-N9	-7.40	109.40	113.10
26	BB	2059	A	C3'-C2'-C1'	7.40	107.42	101.50
26	BB	2083	G	C8-N9-C4	-7.40	103.44	106.40
26	BB	2791	G	C5-C6-O6	-7.40	124.16	128.60
1	AA	1014	A	C2'-C3'-O3'	7.40	125.78	109.50
1	AA	1376	U	O4'-C1'-N1	-7.40	102.28	108.20
26	BB	346	A	O4'-C4'-C3'	-7.40	96.60	104.00
26	BB	583	G	N7-C8-N9	7.40	116.80	113.10
26	BB	1241	A	C3'-C2'-C1'	7.40	107.42	101.50
26	BB	1510	G	C5-C6-O6	-7.40	124.16	128.60
26	BB	1590	A	N1-C6-N6	7.40	123.04	118.60
26	BB	1879	C	N3-C4-C5	7.40	124.86	121.90
26	BB	2482	A	C8-N9-C4	-7.40	102.84	105.80
26	BB	2829	A	N1-C6-N6	7.40	123.04	118.60
1	AA	4	U	C5'-C4'-O4'	7.40	117.98	109.10
26	BB	1928	A	C5-C6-N1	-7.40	114.00	117.70
26	BB	2042	A	C5-N7-C8	7.40	107.60	103.90
26	BB	2090	A	C8-N9-C4	-7.40	102.84	105.80
1	AA	555	U	C5-C4-O4	-7.40	121.46	125.90
1	AA	676	A	N1-C6-N6	-7.40	114.16	118.60
1	AA	776	G	N1-C2-N3	-7.40	119.46	123.90
2	AB	14	A	C5-N7-C8	-7.40	100.20	103.90
25	BA	97	C	C2-N3-C4	7.40	123.60	119.90
26	BB	25	U	C5-C4-O4	-7.40	121.46	125.90
26	BB	220	G	C4-C5-C6	7.40	123.24	118.80
26	BB	400	G	N1-C2-N2	-7.40	109.54	116.20
26	BB	947	A	N9-C4-C5	7.40	108.76	105.80
26	BB	1976	U	N3-C2-O2	-7.40	117.02	122.20
26	BB	2645	G	C8-N9-C4	-7.40	103.44	106.40
26	BB	2790	U	N1-C2-N3	7.40	119.34	114.90
1	AA	627	G	N1-C2-N2	7.40	122.86	116.20
4	AD	62	C	N1-C2-O2	7.40	123.34	118.90
25	BA	48	U	C4'-C3'-C2'	-7.40	95.20	102.60
26	BB	2886	A	C4-C5-N7	-7.40	107.00	110.70
1	AA	515	G	C8-N9-C4	-7.39	103.44	106.40
1	AA	1237	C	N1-C2-O2	7.39	123.34	118.90
4	AD	46	G	C5'-C4'-C3'	-7.39	104.17	116.00
26	BB	333	G	C6-N1-C2	-7.39	120.66	125.10
26	BB	1812	U	C5-C6-N1	-7.39	119.00	122.70
26	BB	2525	G	C4-C5-N7	7.39	113.76	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2824	C	N3-C4-C5	-7.39	118.94	121.90
26	BB	2825	G	C4-C5-C6	7.39	123.24	118.80
26	BB	2898	U	P-O5'-C5'	7.39	132.73	120.90
1	AA	444	G	C4-C5-N7	7.39	113.76	110.80
1	AA	510	A	C6-N1-C2	-7.39	114.17	118.60
4	AD	40	C	C2-N3-C4	7.39	123.60	119.90
4	AD	43	G	C4-C5-N7	-7.39	107.84	110.80
26	BB	29	U	O4'-C1'-N1	7.39	114.11	108.20
26	BB	44	A	N3-C4-C5	-7.39	121.62	126.80
26	BB	493	G	N1-C6-O6	-7.39	115.46	119.90
26	BB	1349	C	C5-C6-N1	7.39	124.70	121.00
1	AA	18	C	C5'-C4'-O4'	7.39	117.97	109.10
26	BB	156	A	C8-N9-C4	-7.39	102.84	105.80
26	BB	1604	C	N3-C4-N4	7.39	123.17	118.00
1	AA	127	G	C2-N3-C4	7.39	115.59	111.90
1	AA	530	G	C4-C5-C6	7.39	123.23	118.80
2	AB	56	C	O4'-C1'-N1	7.39	114.11	108.20
26	BB	413	C	C5-C6-N1	-7.39	117.31	121.00
26	BB	699	A	C5-N7-C8	-7.39	100.20	103.90
26	BB	1744	A	N7-C8-N9	-7.39	110.11	113.80
26	BB	1779	U	N1-C2-O2	7.39	127.97	122.80
1	AA	207	C	N1-C2-O2	7.39	123.33	118.90
1	AA	421	U	C5-C4-O4	-7.39	121.47	125.90
1	AA	504	C	C6-N1-C2	-7.39	117.34	120.30
26	BB	2822	G	O4'-C4'-C3'	7.39	112.01	106.10
1	AA	402	G	N1-C2-N3	7.39	128.33	123.90
1	AA	631	C	N3-C4-C5	7.39	124.85	121.90
1	AA	768	A	N3-C4-N9	-7.39	121.49	127.40
1	AA	931	C	N1-C2-O2	7.39	123.33	118.90
26	BB	515	A	C4-C5-N7	-7.39	107.01	110.70
26	BB	629	G	N3-C4-C5	-7.39	124.91	128.60
26	BB	694	U	N3-C4-C5	-7.39	110.17	114.60
26	BB	839	U	P-O3'-C3'	7.39	128.56	119.70
26	BB	1239	G	N9-C4-C5	7.39	108.36	105.40
26	BB	1478	G	C1'-O4'-C4'	-7.39	103.99	109.90
26	BB	1540	G	C8-N9-C4	-7.39	103.45	106.40
26	BB	1875	G	N3-C4-C5	-7.39	124.91	128.60
1	AA	340	U	C4-C5-C6	7.38	124.13	119.70
1	AA	1034	G	C5'-C4'-O4'	7.38	117.96	109.10
26	BB	1297	C	C5'-C4'-O4'	7.38	117.96	109.10
26	BB	1452	G	N3-C4-C5	-7.38	124.91	128.60
26	BB	1542	U	C4-C5-C6	7.38	124.13	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1640	A	C4-C5-N7	-7.38	107.01	110.70
26	BB	2790	U	O4'-C1'-N1	-7.38	102.29	108.20
49	BY	68	PHE	CB-CG-CD1	7.38	125.97	120.80
1	AA	1027	C	C1'-O4'-C4'	-7.38	103.99	109.90
4	AD	35	C	C1'-O4'-C4'	-7.38	103.99	109.90
26	BB	258	G	N3-C4-N9	7.38	130.43	126.00
1	AA	1193	G	C4-C5-N7	-7.38	107.85	110.80
1	AA	1222	G	C5-C6-N1	7.38	115.19	111.50
8	AH	53	ARG	NH1-CZ-NH2	-7.38	111.28	119.40
26	BB	777	G	N7-C8-N9	7.38	116.79	113.10
26	BB	2615	U	C4'-C3'-C2'	-7.38	95.22	102.60
3	AC	16	A	N3-C4-N9	-7.38	121.50	127.40
26	BB	489	G	C2-N3-C4	7.38	115.59	111.90
26	BB	570	G	C3'-C2'-C1'	7.38	107.40	101.50
54	B3	12	ARG	NE-CZ-NH1	7.38	123.99	120.30
1	AA	1168	U	O4'-C1'-N1	7.38	114.10	108.20
1	AA	1489	G	C6-N1-C2	-7.38	120.67	125.10
25	BA	41	G	C3'-C2'-C1'	7.38	107.40	101.50
26	BB	370	G	N3-C4-C5	-7.38	124.91	128.60
26	BB	704	G	O4'-C1'-N9	-7.38	102.30	108.20
26	BB	1264	A	C2-N3-C4	7.38	114.29	110.60
26	BB	1459	G	N3-C4-C5	-7.38	124.91	128.60
26	BB	1482	G	O4'-C1'-N9	7.38	114.10	108.20
1	AA	897	C	C5'-C4'-O4'	7.38	117.95	109.10
1	AA	1228	C	C4-C5-C6	-7.38	113.71	117.40
26	BB	1089	A	C5-C6-N6	-7.38	117.80	123.70
26	BB	1648	U	C5-C6-N1	-7.38	119.01	122.70
26	BB	2256	G	N1-C6-O6	7.38	124.33	119.90
26	BB	2851	A	C6-C5-N7	-7.38	127.14	132.30
1	AA	961	U	C5'-C4'-O4'	7.38	117.95	109.10
26	BB	71	A	C2-N3-C4	7.38	114.29	110.60
26	BB	768	G	C5-C6-O6	-7.38	124.17	128.60
26	BB	1186	G	C2-N3-C4	7.38	115.59	111.90
26	BB	2336	A	C6-C5-N7	7.38	137.46	132.30
56	B5	34	ARG	NE-CZ-NH2	-7.38	116.61	120.30
1	AA	577	G	N7-C8-N9	-7.37	109.41	113.10
1	AA	874	G	C4-C5-N7	-7.37	107.85	110.80
1	AA	897	C	C2-N3-C4	7.37	123.59	119.90
1	AA	1446	A	O4'-C1'-N9	7.37	114.10	108.20
25	BA	65	U	N1-C2-N3	7.37	119.32	114.90
26	BB	10	A	C4-C5-C6	-7.37	113.31	117.00
26	BB	81	G	C5-N7-C8	7.37	107.99	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	187	G	N3-C4-C5	-7.37	124.91	128.60
26	BB	512	G	C5-N7-C8	-7.37	100.61	104.30
26	BB	2683	C	N3-C2-O2	-7.37	116.74	121.90
1	AA	31	G	O4'-C1'-N9	7.37	114.10	108.20
1	AA	220	G	C1'-O4'-C4'	7.37	115.80	109.90
1	AA	698	G	C5-N7-C8	7.37	107.98	104.30
1	AA	858	G	C1'-O4'-C4'	7.37	115.80	109.90
26	BB	1696	G	C4'-C3'-C2'	-7.37	95.23	102.60
26	BB	2815	C	O4'-C1'-N1	7.37	114.10	108.20
26	BB	2854	G	N1-C6-O6	-7.37	115.48	119.90
1	AA	449	G	N7-C8-N9	7.37	116.78	113.10
26	BB	102	U	N3-C4-O4	7.37	124.56	119.40
1	AA	224	U	C2-N3-C4	-7.37	122.58	127.00
1	AA	533	A	C5-C6-N1	7.37	121.39	117.70
1	AA	1131	G	C5-C6-N1	7.37	115.18	111.50
1	AA	1236	A	O4'-C1'-N9	7.37	114.09	108.20
1	AA	1484	C	C6-N1-C2	7.37	123.25	120.30
26	BB	620	G	C5-C6-N1	7.37	115.18	111.50
26	BB	878	A	C5-N7-C8	-7.37	100.22	103.90
26	BB	1027	A	N9-C4-C5	7.37	108.75	105.80
26	BB	1612	C	C2-N3-C4	-7.37	116.22	119.90
26	BB	1895	C	N1-C2-O2	7.37	123.32	118.90
26	BB	2086	U	N3-C4-C5	-7.37	110.18	114.60
26	BB	2182	U	C3'-C2'-C1'	-7.37	95.61	101.50
26	BB	2277	G	O4'-C1'-N9	7.37	114.09	108.20
26	BB	2688	G	C4-C5-C6	7.37	123.22	118.80
38	BN	47	ARG	NE-CZ-NH1	-7.37	116.62	120.30
3	AC	47	C	N3-C4-N4	7.37	123.16	118.00
26	BB	2194	U	C6-N1-C2	-7.37	116.58	121.00
26	BB	2383	G	C5-C6-O6	7.37	133.02	128.60
1	AA	394	G	C5-N7-C8	-7.37	100.62	104.30
1	AA	547	A	C6-N1-C2	-7.37	114.18	118.60
1	AA	986	U	C1'-O4'-C4'	7.37	115.79	109.90
26	BB	1386	C	N3-C2-O2	-7.37	116.75	121.90
26	BB	1420	A	O4'-C1'-N9	7.37	114.09	108.20
26	BB	2639	A	C8-N9-C4	-7.37	102.85	105.80
1	AA	743	A	C5-N7-C8	7.36	107.58	103.90
1	AA	856	C	N3-C4-C5	7.36	124.84	121.90
1	AA	1419	G	O4'-C1'-N9	7.36	114.09	108.20
1	AA	1525	G	O4'-C1'-N9	7.36	114.09	108.20
26	BB	1017	G	C5'-C4'-C3'	-7.36	104.22	116.00
26	BB	1354	A	C5'-C4'-O4'	7.36	117.94	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1573	G	N1-C2-N3	-7.36	119.48	123.90
26	BB	1729	U	N3-C2-O2	-7.36	117.05	122.20
26	BB	1947	C	N1-C2-N3	7.36	124.36	119.20
26	BB	58	G	C5'-C4'-O4'	7.36	117.93	109.10
26	BB	2415	G	C8-N9-C4	-7.36	103.45	106.40
4	AD	40	C	N1-C2-N3	-7.36	114.05	119.20
26	BB	870	U	N3-C2-O2	-7.36	117.05	122.20
26	BB	1031	G	N7-C8-N9	7.36	116.78	113.10
26	BB	2224	G	O4'-C1'-N9	7.36	114.09	108.20
50	BZ	49	ARG	NE-CZ-NH2	7.36	123.98	120.30
1	AA	713	G	N1-C2-N3	-7.36	119.48	123.90
26	BB	1585	C	O4'-C1'-N1	7.36	114.09	108.20
1	AA	191	G	N3-C4-C5	-7.36	124.92	128.60
1	AA	456	A	N9-C4-C5	7.36	108.74	105.80
3	AC	24	A	N9-C4-C5	7.36	108.74	105.80
26	BB	350	G	N3-C4-N9	-7.36	121.58	126.00
26	BB	452	G	N1-C6-O6	-7.36	115.49	119.90
26	BB	489	G	N9-C4-C5	-7.36	102.46	105.40
26	BB	1003	G	N3-C4-N9	-7.36	121.59	126.00
26	BB	1543	G	O4'-C1'-N9	7.36	114.09	108.20
26	BB	2416	C	C2-N3-C4	7.36	123.58	119.90
26	BB	2458	G	N3-C4-C5	-7.36	124.92	128.60
1	AA	10	A	C5-C6-N6	-7.36	117.82	123.70
1	AA	621	A	C4-C5-C6	7.36	120.68	117.00
1	AA	915	A	O4'-C1'-N9	7.36	114.08	108.20
4	AD	30	G	N9-C4-C5	7.36	108.34	105.40
26	BB	17	G	N3-C4-C5	-7.36	124.92	128.60
26	BB	291	G	N9-C4-C5	7.36	108.34	105.40
26	BB	1277	G	C5-C6-O6	-7.36	124.19	128.60
26	BB	1363	C	C2-N3-C4	-7.36	116.22	119.90
26	BB	2792	A	N7-C8-N9	-7.36	110.12	113.80
1	AA	846	G	C4'-C3'-C2'	-7.35	95.25	102.60
25	BA	42	C	N1-C2-O2	7.35	123.31	118.90
26	BB	884	U	C3'-C2'-C1'	7.35	107.38	101.50
26	BB	1085	A	O4'-C4'-C3'	7.35	111.98	106.10
26	BB	1481	U	P-O3'-C3'	7.35	128.52	119.70
26	BB	1505	A	C8-N9-C4	-7.35	102.86	105.80
26	BB	1720	U	C5-C4-O4	7.35	130.31	125.90
26	BB	2814	A	C4-C5-C6	-7.35	113.32	117.00
1	AA	361	G	N1-C6-O6	-7.35	115.49	119.90
1	AA	565	U	O4'-C1'-N1	7.35	114.08	108.20
1	AA	979	C	C2-N3-C4	7.35	123.58	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1146	A	N1-C2-N3	-7.35	125.62	129.30
1	AA	1217	C	C1'-O4'-C4'	7.35	115.78	109.90
26	BB	1297	C	N1-C2-N3	-7.35	114.05	119.20
26	BB	1500	G	C1'-O4'-C4'	7.35	115.78	109.90
26	BB	2517	C	O4'-C1'-N1	7.35	114.08	108.20
26	BB	2735	G	C8-N9-C4	-7.35	103.46	106.40
1	AA	230	G	N1-C6-O6	7.35	124.31	119.90
1	AA	358	U	N1-C2-N3	7.35	119.31	114.90
26	BB	1194	A	N3-C4-N9	-7.35	121.52	127.40
1	AA	116	A	C5-C6-N6	-7.35	117.82	123.70
1	AA	267	C	N1-C2-O2	7.35	123.31	118.90
1	AA	410	G	O4'-C1'-N9	7.35	114.08	108.20
1	AA	1193	G	C8-N9-C4	-7.35	103.46	106.40
26	BB	692	C	C4'-C3'-C2'	-7.35	95.25	102.60
26	BB	877	A	C4'-C3'-C2'	-7.35	95.25	102.60
26	BB	910	A	N9-C4-C5	7.35	108.74	105.80
26	BB	1757	A	C2-N3-C4	7.35	114.28	110.60
26	BB	2054	A	N3-C4-N9	-7.35	121.52	127.40
30	BF	23	PHE	CB-CG-CD2	-7.35	115.66	120.80
1	AA	685	G	C8-N9-C4	-7.35	103.46	106.40
1	AA	1383	C	N3-C4-N4	7.35	123.14	118.00
4	AD	57	C	N3-C4-C5	-7.35	118.96	121.90
19	AS	28	ARG	NE-CZ-NH2	7.35	123.97	120.30
26	BB	125	A	O4'-C1'-N9	7.35	114.08	108.20
26	BB	711	G	C6-C5-N7	7.35	134.81	130.40
26	BB	793	A	N7-C8-N9	7.35	117.47	113.80
26	BB	1018	U	N3-C4-C5	7.35	119.01	114.60
26	BB	1438	U	C5-C4-O4	-7.35	121.49	125.90
26	BB	1728	C	N1-C2-O2	7.35	123.31	118.90
26	BB	2123	G	N7-C8-N9	7.35	116.77	113.10
1	AA	310	G	N9-C4-C5	7.35	108.34	105.40
26	BB	849	A	C5-N7-C8	7.35	107.57	103.90
26	BB	1828	G	C1'-O4'-C4'	-7.35	104.02	109.90
26	BB	2242	G	C6-C5-N7	-7.35	125.99	130.40
1	AA	187	G	C5-N7-C8	-7.34	100.63	104.30
1	AA	558	G	C5-C6-N1	7.34	115.17	111.50
1	AA	777	A	N1-C6-N6	7.34	123.01	118.60
1	AA	890	G	N9-C4-C5	-7.34	102.46	105.40
1	AA	1272	G	P-O3'-C3'	7.34	128.51	119.70
1	AA	1417	G	C5'-C4'-O4'	7.34	117.91	109.10
1	AA	1522	U	C6-N1-C2	7.34	125.41	121.00
26	BB	3	U	C2-N3-C4	-7.34	122.59	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	997	G	C5'-C4'-O4'	7.34	117.91	109.10
26	BB	1056	G	N9-C4-C5	7.34	108.34	105.40
26	BB	1988	G	N3-C4-C5	-7.34	124.93	128.60
26	BB	2063	C	C5-C4-N4	7.34	125.34	120.20
26	BB	2310	C	N1-C2-O2	7.34	123.31	118.90
26	BB	2464	G	C4-C5-N7	-7.34	107.86	110.80
26	BB	2489	U	C5-C6-N1	7.34	126.37	122.70
26	BB	2692	G	C5-C6-O6	-7.34	124.19	128.60
26	BB	2843	G	O4'-C1'-N9	7.34	114.08	108.20
26	BB	2850	A	C6-N1-C2	-7.34	114.19	118.60
33	BI	19	VAL	CG1-CB-CG2	-7.34	99.15	110.90
1	AA	430	A	C2-N3-C4	-7.34	106.93	110.60
26	BB	674	G	C2-N3-C4	7.34	115.57	111.90
26	BB	1002	G	O4'-C1'-N9	7.34	114.08	108.20
26	BB	2792	A	C5-N7-C8	7.34	107.57	103.90
31	BG	21	TYR	CB-CG-CD1	7.34	125.41	121.00
34	BJ	137	ARG	NE-CZ-NH2	-7.34	116.63	120.30
1	AA	754	C	N3-C4-N4	7.34	123.14	118.00
25	BA	2	G	N3-C2-N2	7.34	125.04	119.90
25	BA	43	C	N1-C2-N3	-7.34	114.06	119.20
26	BB	437	U	C4-C5-C6	7.34	124.11	119.70
26	BB	582	A	C8-N9-C4	-7.34	102.86	105.80
26	BB	1697	G	N3-C4-N9	7.34	130.41	126.00
1	AA	39	G	C4-C5-N7	-7.34	107.86	110.80
1	AA	757	U	P-O3'-C3'	7.34	128.51	119.70
1	AA	1084	G	C5-C6-N1	7.34	115.17	111.50
26	BB	220	G	C4'-C3'-C2'	-7.34	95.26	102.60
26	BB	510	C	C6-N1-C2	7.34	123.24	120.30
26	BB	829	A	O4'-C1'-N9	7.34	114.07	108.20
26	BB	1830	C	C2-N3-C4	7.34	123.57	119.90
26	BB	2447	G	C2-N3-C4	7.34	115.57	111.90
2	AB	21	A	C3'-C2'-C1'	7.34	107.37	101.50
26	BB	175	G	N7-C8-N9	7.34	116.77	113.10
26	BB	252	G	C2-N3-C4	7.34	115.57	111.90
26	BB	1574	C	N1-C2-O2	7.34	123.30	118.90
26	BB	1622	G	C5'-C4'-C3'	7.34	127.74	116.00
26	BB	2623	G	C3'-C2'-C1'	-7.34	95.63	101.50
1	AA	417	G	C3'-C2'-C1'	-7.34	95.63	101.50
1	AA	572	A	C4-C5-C6	-7.34	113.33	117.00
2	AB	9	A	C6-C5-N7	7.34	137.44	132.30
2	AB	36	A	C5'-C4'-C3'	-7.34	104.26	116.00
26	BB	1101	U	C5-C6-N1	-7.34	119.03	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1372	U	C4-C5-C6	-7.34	115.30	119.70
26	BB	1635	A	C5'-C4'-O4'	7.34	117.90	109.10
26	BB	2228	G	N1-C2-N3	7.34	128.30	123.90
26	BB	2745	C	C3'-C2'-C1'	7.34	107.37	101.50
56	B5	3	ARG	NE-CZ-NH1	-7.34	116.63	120.30
1	AA	239	U	P-O3'-C3'	7.33	128.50	119.70
1	AA	314	C	C4'-C3'-C2'	-7.33	95.27	102.60
1	AA	422	C	P-O3'-C3'	7.33	128.50	119.70
1	AA	778	G	N3-C2-N2	7.33	125.03	119.90
26	BB	612	G	C5-C6-N1	7.33	115.17	111.50
26	BB	630	G	C8-N9-C4	-7.33	103.47	106.40
1	AA	213	G	O4'-C1'-N9	-7.33	102.33	108.20
26	BB	1783	A	N7-C8-N9	7.33	117.47	113.80
26	BB	2102	G	C5-N7-C8	7.33	107.97	104.30
26	BB	2123	G	C5-N7-C8	-7.33	100.63	104.30
26	BB	2637	U	P-O3'-C3'	7.33	128.50	119.70
26	BB	2735	G	O4'-C1'-N9	7.33	114.07	108.20
1	AA	124	C	C5'-C4'-C3'	-7.33	104.27	116.00
1	AA	191	G	C2-N3-C4	7.33	115.56	111.90
1	AA	252	U	C4'-C3'-C2'	-7.33	95.27	102.60
1	AA	986	U	C6-N1-C2	-7.33	116.60	121.00
1	AA	1403	C	C1'-O4'-C4'	-7.33	104.03	109.90
3	AC	33	A	O4'-C1'-N9	-7.33	102.33	108.20
26	BB	32	C	N3-C4-N4	7.33	123.13	118.00
26	BB	1609	A	O4'-C4'-C3'	7.33	111.97	106.10
26	BB	1824	G	C4-C5-C6	7.33	123.20	118.80
26	BB	2120	G	C4-C5-C6	7.33	123.20	118.80
26	BB	2673	G	N9-C4-C5	-7.33	102.47	105.40
1	AA	652	U	O4'-C1'-N1	7.33	114.06	108.20
26	BB	768	G	N1-C2-N3	-7.33	119.50	123.90
26	BB	1068	G	C2-N3-C4	7.33	115.56	111.90
26	BB	1173	U	N3-C4-C5	-7.33	110.20	114.60
26	BB	1265	A	C8-N9-C4	-7.33	102.87	105.80
1	AA	341	C	C2-N3-C4	7.33	123.56	119.90
1	AA	406	G	C5-C6-O6	-7.33	124.20	128.60
4	AD	18	U	C5'-C4'-O4'	-7.33	100.31	109.10
14	AN	126	ARG	NH1-CZ-NH2	-7.33	111.34	119.40
26	BB	313	G	C4-C5-C6	7.33	123.20	118.80
26	BB	628	G	C2-N3-C4	-7.33	108.23	111.90
26	BB	1462	C	C3'-C2'-C1'	-7.33	95.64	101.50
26	BB	2025	C	O4'-C1'-N1	7.33	114.06	108.20
26	BB	2128	G	C5-N7-C8	-7.33	100.64	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2678	C	C2-N3-C4	7.33	123.56	119.90
26	BB	2697	G	C8-N9-C4	-7.33	103.47	106.40
31	BG	6	TYR	CB-CG-CD1	-7.33	116.60	121.00
1	AA	1233	G	N3-C4-C5	-7.33	124.94	128.60
26	BB	703	U	N1-C1'-C2'	-7.33	103.94	112.00
26	BB	791	C	N1-C1'-C2'	7.33	123.53	114.00
26	BB	1414	C	C4-C5-C6	-7.33	113.74	117.40
26	BB	1803	A	N7-C8-N9	7.33	117.46	113.80
26	BB	1859	U	C2-N3-C4	-7.33	122.60	127.00
26	BB	2430	A	N7-C8-N9	-7.33	110.14	113.80
26	BB	2463	C	N1-C1'-C2'	-7.33	103.94	112.00
2	AB	9	A	C5-C6-N1	7.33	121.36	117.70
26	BB	51	G	P-O3'-C3'	7.33	128.49	119.70
26	BB	100	U	N3-C4-C5	-7.33	110.20	114.60
26	BB	285	G	C5-C6-O6	-7.33	124.20	128.60
26	BB	542	C	N3-C4-C5	-7.33	118.97	121.90
26	BB	920	A	O4'-C1'-N9	7.33	114.06	108.20
26	BB	1088	A	O4'-C1'-N9	7.33	114.06	108.20
26	BB	1177	G	N3-C2-N2	-7.33	114.77	119.90
26	BB	1519	G	C6-N1-C2	-7.33	120.70	125.10
26	BB	2364	C	O4'-C1'-N1	7.33	114.06	108.20
39	BO	125	PRO	O-C-N	7.33	134.42	122.70
1	AA	549	C	C6-N1-C2	-7.32	117.37	120.30
1	AA	827	U	N3-C2-O2	-7.32	117.07	122.20
4	AD	68	C	O4'-C1'-N1	7.32	114.06	108.20
26	BB	111	A	N1-C2-N3	-7.32	125.64	129.30
26	BB	361	G	N9-C4-C5	-7.32	102.47	105.40
26	BB	1884	G	P-O3'-C3'	7.32	128.49	119.70
26	BB	2043	C	C5'-C4'-C3'	-7.32	104.28	116.00
26	BB	1172	C	C1'-O4'-C4'	-7.32	104.04	109.90
26	BB	1647	U	C5-C4-O4	7.32	130.29	125.90
1	AA	707	U	O4'-C1'-N1	7.32	114.06	108.20
1	AA	1106	G	C5-C6-N1	7.32	115.16	111.50
26	BB	309	A	C5'-C4'-O4'	7.32	117.88	109.10
26	BB	2231	U	N1-C2-N3	7.32	119.29	114.90
26	BB	2343	U	N3-C4-O4	7.32	124.52	119.40
26	BB	2434	A	C3'-C2'-C1'	7.32	107.36	101.50
26	BB	2713	U	N3-C4-O4	7.32	124.53	119.40
1	AA	502	A	N7-C8-N9	7.32	117.46	113.80
1	AA	763	G	O4'-C1'-C2'	7.32	114.19	107.60
26	BB	91	A	O4'-C4'-C3'	7.32	111.96	106.10
26	BB	375	G	O4'-C1'-N9	7.32	114.06	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2356	U	N1-C1'-C2'	-7.32	103.95	112.00
1	AA	1005	A	C6-C5-N7	7.32	137.42	132.30
1	AA	1180	A	N9-C4-C5	7.32	108.73	105.80
1	AA	1290	G	C4-C5-C6	-7.32	114.41	118.80
25	BA	92	C	C5-C4-N4	-7.32	115.08	120.20
26	BB	189	G	N3-C2-N2	7.32	125.02	119.90
26	BB	1688	U	C5-C6-N1	-7.32	119.04	122.70
26	BB	1978	A	C6-N1-C2	-7.32	114.21	118.60
26	BB	1994	C	N3-C4-C5	7.32	124.83	121.90
26	BB	2820	A	C4'-C3'-C2'	-7.32	95.28	102.60
1	AA	686	U	C6-N1-C2	-7.32	116.61	121.00
1	AA	1031	C	C2-N3-C4	7.32	123.56	119.90
25	BA	101	A	C5'-C4'-O4'	7.32	117.88	109.10
26	BB	311	A	C4-C5-C6	-7.32	113.34	117.00
26	BB	1024	G	C5-C6-N1	7.32	115.16	111.50
1	AA	373	A	N3-C4-N9	7.31	133.25	127.40
1	AA	380	G	C6-C5-N7	-7.31	126.01	130.40
1	AA	491	G	O4'-C4'-C3'	7.31	111.95	106.10
26	BB	2332	C	C2-N3-C4	7.31	123.56	119.90
26	BB	2835	A	C5-N7-C8	-7.31	100.24	103.90
26	BB	622	G	C5'-C4'-O4'	7.31	117.88	109.10
26	BB	726	G	O4'-C1'-C2'	7.31	114.18	107.60
26	BB	846	U	C5'-C4'-O4'	7.31	117.88	109.10
26	BB	1071	G	N1-C6-O6	-7.31	115.51	119.90
26	BB	2389	G	N1-C6-O6	-7.31	115.51	119.90
1	AA	618	C	N1-C2-N3	-7.31	114.08	119.20
1	AA	1110	A	C8-N9-C4	-7.31	102.88	105.80
1	AA	1476	A	N3-C4-C5	-7.31	121.68	126.80
1	AA	1479	C	C2-N3-C4	7.31	123.56	119.90
26	BB	1526	C	C4-C5-C6	-7.31	113.75	117.40
26	BB	2758	A	N1-C2-N3	7.31	132.96	129.30
1	AA	161	A	C5-N7-C8	-7.31	100.25	103.90
1	AA	1453	G	C5'-C4'-C3'	-7.31	104.31	116.00
26	BB	222	A	N9-C4-C5	7.31	108.72	105.80
26	BB	1057	A	C5-C6-N1	7.31	121.36	117.70
26	BB	2242	G	C5'-C4'-O4'	7.31	117.87	109.10
1	AA	953	G	N9-C4-C5	-7.31	102.48	105.40
1	AA	1151	A	N1-C6-N6	7.31	122.98	118.60
1	AA	1350	A	C2'-C3'-O3'	7.31	125.58	109.50
26	BB	350	G	C8-N9-C4	-7.31	103.48	106.40
26	BB	1462	C	N3-C4-C5	7.31	124.82	121.90
26	BB	2344	U	C4'-C3'-C2'	-7.31	95.29	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	440	C	N1-C2-N3	-7.31	114.09	119.20
1	AA	963	G	C4-C5-C6	7.31	123.18	118.80
1	AA	1343	G	C6-C5-N7	-7.31	126.02	130.40
26	BB	2054	A	C5-N7-C8	-7.31	100.25	103.90
12	AL	5	TYR	CB-CG-CD1	-7.30	116.62	121.00
26	BB	122	G	N7-C8-N9	-7.30	109.45	113.10
26	BB	223	A	O4'-C1'-N9	7.30	114.04	108.20
26	BB	702	U	N1-C2-N3	7.30	119.28	114.90
26	BB	760	G	C5-C6-O6	-7.30	124.22	128.60
26	BB	840	C	C2-N3-C4	7.30	123.55	119.90
26	BB	1103	A	N9-C4-C5	-7.30	102.88	105.80
26	BB	1337	G	N3-C4-C5	-7.30	124.95	128.60
26	BB	1999	C	N1-C2-O2	7.30	123.28	118.90
26	BB	2190	G	N9-C4-C5	7.30	108.32	105.40
1	AA	336	A	C4-C5-N7	-7.30	107.05	110.70
1	AA	1278	G	N3-C4-C5	-7.30	124.95	128.60
26	BB	604	G	O4'-C1'-N9	7.30	114.04	108.20
26	BB	2298	A	C6-N1-C2	-7.30	114.22	118.60
1	AA	466	A	N1-C2-N3	7.30	132.95	129.30
26	BB	421	C	O5'-P-OP2	-7.30	99.13	105.70
26	BB	1368	G	N3-C4-C5	-7.30	124.95	128.60
26	BB	1433	A	C6-N1-C2	7.30	122.98	118.60
26	BB	1649	G	N3-C2-N2	-7.30	114.79	119.90
26	BB	2352	A	N9-C4-C5	7.30	108.72	105.80
1	AA	97	G	C4-C5-N7	-7.30	107.88	110.80
1	AA	276	G	P-O3'-C3'	7.30	128.46	119.70
1	AA	1162	C	N1-C2-O2	7.30	123.28	118.90
2	AB	56	C	C5-C6-N1	-7.30	117.35	121.00
4	AD	22	A	C5-C6-N6	7.30	129.54	123.70
26	BB	1364	G	C3'-C2'-C1'	-7.30	95.66	101.50
26	BB	1888	G	N1-C2-N3	-7.30	119.52	123.90
1	AA	4	U	O4'-C4'-C3'	-7.30	96.70	104.00
1	AA	61	G	N3-C4-N9	-7.30	121.62	126.00
26	BB	422	A	C4-C5-N7	-7.30	107.05	110.70
26	BB	436	C	C2-N3-C4	7.30	123.55	119.90
26	BB	1623	G	N9-C4-C5	7.30	108.32	105.40
26	BB	2554	U	C3'-C2'-C1'	7.30	107.34	101.50
1	AA	54	C	C4-C5-C6	-7.30	113.75	117.40
1	AA	199	A	C5-C6-N6	-7.30	117.86	123.70
1	AA	779	C	N3-C4-N4	7.30	123.11	118.00
1	AA	1149	C	O4'-C1'-N1	7.30	114.04	108.20
26	BB	838	C	N3-C4-C5	-7.30	118.98	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1092	C	N1-C2-O2	7.30	123.28	118.90
26	BB	2320	U	C5-C6-N1	-7.30	119.05	122.70
26	BB	2357	G	N7-C8-N9	7.30	116.75	113.10
1	AA	464	U	N3-C2-O2	-7.29	117.09	122.20
1	AA	618	C	C2-N3-C4	7.29	123.55	119.90
1	AA	622	A	C1'-O4'-C4'	7.29	115.73	109.90
1	AA	1041	G	C8-N9-C4	-7.29	103.48	106.40
26	BB	564	C	N1-C2-O2	7.29	123.28	118.90
26	BB	977	G	C5-C6-O6	-7.29	124.22	128.60
26	BB	1678	A	N9-C4-C5	7.29	108.72	105.80
26	BB	2257	U	O4'-C1'-N1	7.29	114.03	108.20
26	BB	2403	C	N3-C4-C5	-7.29	118.98	121.90
26	BB	2866	U	C6-N1-C2	-7.29	116.62	121.00
1	AA	43	C	N1-C2-O2	7.29	123.27	118.90
1	AA	536	C	O4'-C4'-C3'	7.29	111.93	106.10
1	AA	1098	C	C6-N1-C2	-7.29	117.38	120.30
25	BA	83	G	N1-C2-N3	-7.29	119.53	123.90
26	BB	254	G	O4'-C1'-N9	7.29	114.03	108.20
26	BB	2200	C	N3-C4-N4	7.29	123.10	118.00
1	AA	567	G	O4'-C1'-N9	7.29	114.03	108.20
1	AA	1106	G	C8-N9-C4	-7.29	103.48	106.40
26	BB	934	U	O4'-C1'-N1	7.29	114.03	108.20
1	AA	681	A	C6-C5-N7	-7.29	127.20	132.30
1	AA	861	G	N3-C4-N9	-7.29	121.63	126.00
26	BB	1025	G	N3-C4-N9	-7.29	121.63	126.00
26	BB	1534	U	N1-C2-N3	7.29	119.27	114.90
28	BD	193	GLU	OE1-CD-OE2	7.29	132.05	123.30
1	AA	1047	G	O4'-C1'-N9	7.29	114.03	108.20
1	AA	126	G	N3-C4-N9	7.29	130.37	126.00
1	AA	356	A	C6-N1-C2	-7.29	114.23	118.60
1	AA	895	G	N3-C4-C5	-7.29	124.96	128.60
1	AA	1192	C	C4-C5-C6	-7.29	113.76	117.40
1	AA	1415	G	C5-C6-N1	7.29	115.14	111.50
26	BB	716	A	O4'-C4'-C3'	7.29	111.93	106.10
26	BB	793	A	C5-N7-C8	-7.29	100.26	103.90
26	BB	1031	G	C8-N9-C4	-7.29	103.49	106.40
1	AA	99	C	P-O3'-C3'	7.28	128.44	119.70
1	AA	375	U	C6-N1-C2	-7.28	116.63	121.00
1	AA	746	A	C6-N1-C2	7.28	122.97	118.60
2	AB	15	A	O4'-C1'-N9	7.28	114.03	108.20
26	BB	444	C	C5'-C4'-O4'	7.28	117.84	109.10
26	BB	706	A	N7-C8-N9	-7.28	110.16	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	927	A	C5'-C4'-O4'	7.28	117.84	109.10
26	BB	1793	C	N3-C4-N4	7.28	123.10	118.00
26	BB	2126	A	N3-C4-N9	-7.28	121.57	127.40
26	BB	2441	U	C5'-C4'-O4'	7.28	117.84	109.10
26	BB	2823	A	C3'-C2'-C1'	7.28	107.33	101.50
1	AA	622	A	N1-C2-N3	-7.28	125.66	129.30
1	AA	710	G	N3-C2-N2	-7.28	114.80	119.90
1	AA	1500	A	C6-N1-C2	-7.28	114.23	118.60
26	BB	1177	G	N7-C8-N9	7.28	116.74	113.10
26	BB	2857	G	N1-C2-N2	7.28	122.75	116.20
26	BB	2893	A	C6-N1-C2	-7.28	114.23	118.60
1	AA	1347	G	N3-C4-C5	-7.28	124.96	128.60
1	AA	1494	G	C8-N9-C4	-7.28	103.49	106.40
25	BA	25	U	P-O3'-C3'	7.28	128.44	119.70
25	BA	34	A	C5-N7-C8	7.28	107.54	103.90
26	BB	279	A	N7-C8-N9	-7.28	110.16	113.80
26	BB	928	A	C4-C5-N7	-7.28	107.06	110.70
26	BB	1681	G	C5-N7-C8	7.28	107.94	104.30
26	BB	2468	A	C1'-O4'-C4'	-7.28	104.08	109.90
26	BB	2641	G	N1-C2-N3	-7.28	119.53	123.90
26	BB	2857	G	N1-C6-O6	-7.28	115.53	119.90
26	BB	202	U	C5'-C4'-O4'	7.28	117.83	109.10
26	BB	843	G	C3'-C2'-C1'	-7.28	95.68	101.50
26	BB	1898	U	C6-N1-C2	-7.28	116.63	121.00
1	AA	620	C	N3-C2-O2	-7.28	116.81	121.90
26	BB	321	U	N1-C1'-C2'	7.28	123.46	114.00
26	BB	355	U	C5-C4-O4	-7.28	121.53	125.90
26	BB	532	A	C3'-C2'-C1'	-7.28	95.68	101.50
26	BB	1140	C	C6-N1-C2	-7.28	117.39	120.30
26	BB	1322	A	C4-C5-N7	7.28	114.34	110.70
26	BB	1344	U	C5-C4-O4	-7.28	121.53	125.90
1	AA	1033	G	N7-C8-N9	-7.28	109.46	113.10
1	AA	1343	G	C3'-C2'-C1'	7.28	107.32	101.50
1	AA	1490	U	C4-C5-C6	7.28	124.07	119.70
26	BB	1511	G	C4-C5-C6	-7.28	114.44	118.80
26	BB	1620	G	C5-C6-N1	7.28	115.14	111.50
26	BB	2011	U	N1-C1'-C2'	-7.28	104.00	112.00
26	BB	451	U	N3-C4-C5	7.27	118.97	114.60
26	BB	1356	G	C5'-C4'-O4'	7.27	117.83	109.10
26	BB	1903	G	N9-C4-C5	7.27	108.31	105.40
26	BB	977	G	N3-C2-N2	-7.27	114.81	119.90
26	BB	1182	G	C6-C5-N7	7.27	134.76	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1756	G	C5-N7-C8	-7.27	100.66	104.30
26	BB	2838	G	C4-C5-N7	-7.27	107.89	110.80
1	AA	51	A	N7-C8-N9	7.27	117.44	113.80
1	AA	58	C	C3'-C2'-C1'	-7.27	95.68	101.50
1	AA	385	C	C3'-C2'-C1'	7.27	107.32	101.50
3	AC	26	U	C3'-C2'-C1'	7.27	107.32	101.50
26	BB	331	C	N1-C2-O2	7.27	123.26	118.90
26	BB	453	A	C4-C5-N7	-7.27	107.06	110.70
26	BB	1273	U	C5'-C4'-O4'	7.27	117.83	109.10
30	BF	183	PHE	CB-CG-CD1	-7.27	115.71	120.80
1	AA	450	G	C5'-C4'-O4'	7.27	117.82	109.10
18	AR	76	ARG	NE-CZ-NH2	-7.27	116.67	120.30
26	BB	273	G	N3-C4-N9	7.27	130.36	126.00
26	BB	428	A	N7-C8-N9	7.27	117.44	113.80
26	BB	756	A	N1-C2-N3	-7.27	125.67	129.30
26	BB	1071	G	N3-C4-C5	-7.27	124.97	128.60
26	BB	1805	A	O4'-C1'-N9	7.27	114.02	108.20
26	BB	2241	A	C2-N3-C4	7.27	114.23	110.60
26	BB	2491	U	N3-C2-O2	-7.27	117.11	122.20
26	BB	2516	A	C5-C6-N1	7.27	121.33	117.70
26	BB	2748	A	C5-N7-C8	7.27	107.53	103.90
1	AA	584	G	C2-N3-C4	-7.27	108.27	111.90
1	AA	1039	G	C4-C5-C6	7.27	123.16	118.80
26	BB	1074	G	O4'-C1'-N9	7.27	114.01	108.20
26	BB	1565	C	N1-C2-O2	7.27	123.26	118.90
26	BB	2347	C	N1-C2-O2	7.27	123.26	118.90
26	BB	2725	A	N1-C2-N3	-7.27	125.67	129.30
1	AA	158	G	C5'-C4'-O4'	7.27	117.82	109.10
1	AA	197	A	N9-C4-C5	7.27	108.71	105.80
1	AA	852	G	C8-N9-C4	7.27	109.31	106.40
1	AA	1065	U	P-O3'-C3'	7.27	128.42	119.70
26	BB	194	G	O4'-C1'-N9	7.27	114.01	108.20
26	BB	611	C	O4'-C1'-N1	7.27	114.01	108.20
26	BB	2118	U	N1-C2-O2	7.27	127.89	122.80
1	AA	953	G	C1'-O4'-C4'	-7.26	104.09	109.90
1	AA	1025	U	C1'-O4'-C4'	-7.26	104.09	109.90
6	AF	17	TRP	CB-CG-CD2	7.26	136.04	126.60
26	BB	171	U	C6-N1-C2	-7.26	116.64	121.00
26	BB	264	C	N1-C1'-C2'	-7.26	104.01	112.00
26	BB	317	G	N1-C2-N3	-7.26	119.54	123.90
26	BB	455	C	C5-C6-N1	7.26	124.63	121.00
26	BB	877	A	N1-C2-N3	-7.26	125.67	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	918	A	C4-C5-N7	-7.26	107.07	110.70
3	AC	29	G	N1-C2-N3	-7.26	119.54	123.90
1	AA	103	U	O4'-C1'-N1	7.26	114.01	108.20
1	AA	617	G	O4'-C1'-N9	7.26	114.01	108.20
1	AA	1074	G	N7-C8-N9	7.26	116.73	113.10
26	BB	450	G	N7-C8-N9	7.26	116.73	113.10
26	BB	864	G	N3-C4-N9	7.26	130.36	126.00
26	BB	1287	A	C4-C5-N7	-7.26	107.07	110.70
26	BB	1374	G	O4'-C1'-N9	7.26	114.01	108.20
26	BB	1511	G	N3-C2-N2	-7.26	114.82	119.90
26	BB	1570	A	C5-C6-N1	7.26	121.33	117.70
26	BB	2120	G	C1'-O4'-C4'	7.26	115.71	109.90
1	AA	383	A	P-O3'-C3'	7.26	128.41	119.70
1	AA	526	C	C5'-C4'-C3'	7.26	127.62	116.00
1	AA	1178	G	C5-C6-O6	7.26	132.96	128.60
1	AA	1196	A	N7-C8-N9	-7.26	110.17	113.80
2	AB	13	C	C4-C5-C6	-7.26	113.77	117.40
26	BB	17	G	N7-C8-N9	7.26	116.73	113.10
26	BB	45	G	C5-N7-C8	7.26	107.93	104.30
26	BB	179	C	P-O3'-C3'	-7.26	110.99	119.70
26	BB	261	G	N3-C2-N2	7.26	124.98	119.90
26	BB	1425	G	N1-C2-N3	-7.26	119.54	123.90
26	BB	1964	G	C2-N3-C4	7.26	115.53	111.90
26	BB	2845	U	N3-C4-C5	7.26	118.96	114.60
1	AA	598	U	N3-C4-O4	7.26	124.48	119.40
26	BB	818	G	C4-C5-N7	7.26	113.70	110.80
1	AA	372	C	C2-N3-C4	7.26	123.53	119.90
1	AA	1194	U	C6-N1-C2	-7.26	116.65	121.00
26	BB	1952	A	C4-C5-C6	-7.26	113.37	117.00
26	BB	2186	G	N3-C4-C5	-7.26	124.97	128.60
26	BB	2629	U	C5-C4-O4	-7.26	121.55	125.90
26	BB	2727	A	N1-C6-N6	7.26	122.95	118.60
1	AA	426	U	N1-C2-N3	7.25	119.25	114.90
1	AA	602	A	C1'-O4'-C4'	7.25	115.70	109.90
26	BB	365	U	O4'-C1'-N1	7.25	114.00	108.20
26	BB	1583	A	O4'-C1'-N9	7.25	114.00	108.20
1	AA	710	G	C2-N3-C4	7.25	115.53	111.90
1	AA	730	G	C8-N9-C4	-7.25	103.50	106.40
26	BB	649	G	N3-C2-N2	-7.25	114.82	119.90
26	BB	766	U	C2-N3-C4	-7.25	122.65	127.00
26	BB	1445	G	N1-C2-N3	-7.25	119.55	123.90
26	BB	2831	G	C5'-C4'-O4'	7.25	117.80	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	21	G	C2-N3-C4	7.25	115.53	111.90
26	BB	339	U	C1'-O4'-C4'	-7.25	104.10	109.90
26	BB	1184	U	N1-C2-N3	7.25	119.25	114.90
26	BB	1896	G	C4-C5-N7	7.25	113.70	110.80
26	BB	2059	A	O4'-C1'-C2'	-7.25	98.55	105.80
26	BB	2382	G	C5-N7-C8	-7.25	100.67	104.30
1	AA	10	A	N7-C8-N9	7.25	117.42	113.80
1	AA	470	C	C3'-C2'-C1'	7.25	107.30	101.50
1	AA	620	C	C5'-C4'-O4'	7.25	117.80	109.10
1	AA	1064	G	C4-C5-C6	7.25	123.15	118.80
26	BB	619	G	C1'-O4'-C4'	7.25	115.70	109.90
26	BB	1516	G	N3-C4-C5	-7.25	124.97	128.60
26	BB	1821	A	N1-C6-N6	-7.25	114.25	118.60
26	BB	2048	G	N7-C8-N9	7.25	116.72	113.10
26	BB	2447	G	C1'-O4'-C4'	7.25	115.70	109.90
1	AA	511	C	C1'-O4'-C4'	-7.25	104.10	109.90
1	AA	871	U	C1'-O4'-C4'	-7.25	104.10	109.90
1	AA	1230	C	C1'-O4'-C4'	7.25	115.70	109.90
1	AA	1296	C	C4'-C3'-C2'	7.25	109.85	102.60
25	BA	37	C	N3-C4-C5	-7.25	119.00	121.90
26	BB	172	A	C3'-C2'-C1'	-7.25	95.70	101.50
26	BB	1726	C	C5-C4-N4	-7.25	115.13	120.20
26	BB	2427	C	N3-C4-C5	7.25	124.80	121.90
26	BB	2685	G	C5'-C4'-O4'	7.25	117.80	109.10
26	BB	2826	A	C5-N7-C8	-7.25	100.28	103.90
1	AA	321	A	C1'-O4'-C4'	-7.25	104.10	109.90
6	AF	180	ASP	CB-CG-OD2	-7.25	111.78	118.30
26	BB	816	C	C6-N1-C2	-7.25	117.40	120.30
26	BB	891	G	C4'-C3'-C2'	-7.25	95.35	102.60
26	BB	1829	A	N1-C2-N3	7.25	132.92	129.30
26	BB	1895	C	C5-C4-N4	-7.25	115.13	120.20
15	AO	7	VAL	CA-CB-CG2	7.25	121.77	110.90
26	BB	1300	G	P-O3'-C3'	7.25	128.40	119.70
26	BB	2873	A	N1-C2-N3	7.25	132.92	129.30
1	AA	463	U	C1'-O4'-C4'	-7.24	104.11	109.90
1	AA	1385	G	N1-C2-N2	7.24	122.72	116.20
8	AH	32	PHE	CB-CG-CD1	7.24	125.87	120.80
25	BA	118	C	O4'-C1'-N1	7.24	113.99	108.20
26	BB	876	C	C2-N3-C4	7.24	123.52	119.90
26	BB	1586	A	C1'-O4'-C4'	-7.24	104.11	109.90
1	AA	885	G	N1-C6-O6	7.24	124.25	119.90
1	AA	1155	A	C8-N9-C4	-7.24	102.90	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	53	G	C5'-C4'-O4'	7.24	117.79	109.10
26	BB	1704	C	C5-C6-N1	7.24	124.62	121.00
26	BB	2049	G	C5-N7-C8	-7.24	100.68	104.30
26	BB	2167	U	N3-C4-O4	7.24	124.47	119.40
26	BB	2219	U	N3-C4-O4	-7.24	114.33	119.40
1	AA	240	G	C4-C5-C6	7.24	123.14	118.80
1	AA	471	U	C4'-C3'-C2'	-7.24	95.36	102.60
1	AA	1131	G	C2-N3-C4	7.24	115.52	111.90
1	AA	1382	C	N3-C4-C5	-7.24	119.00	121.90
1	AA	1515	G	O4'-C1'-N9	7.24	113.99	108.20
26	BB	361	G	C4-C5-C6	7.24	123.14	118.80
26	BB	506	G	N3-C4-N9	7.24	130.34	126.00
26	BB	712	G	C4-C5-N7	-7.24	107.90	110.80
26	BB	734	A	C3'-C2'-C1'	7.24	107.29	101.50
1	AA	109	A	C8-N9-C4	-7.24	102.91	105.80
1	AA	308	C	N3-C2-O2	-7.24	116.83	121.90
1	AA	1326	U	O4'-C1'-N1	7.24	113.99	108.20
1	AA	1368	A	C5'-C4'-O4'	7.24	117.79	109.10
1	AA	1457	G	C5-C6-O6	-7.24	124.26	128.60
1	AA	1534	A	C5-C6-N6	-7.24	117.91	123.70
25	BA	109	A	O4'-C1'-N9	7.24	113.99	108.20
26	BB	940	G	N3-C4-C5	-7.24	124.98	128.60
26	BB	1324	G	C5-N7-C8	7.24	107.92	104.30
26	BB	1395	A	O4'-C1'-C2'	-7.24	98.56	105.80
26	BB	1595	C	N1-C2-O2	-7.24	114.56	118.90
26	BB	1055	G	O4'-C1'-N9	7.24	113.99	108.20
26	BB	1702	G	N3-C4-C5	-7.24	124.98	128.60
26	BB	2126	A	C5'-C4'-O4'	7.24	117.78	109.10
1	AA	2	A	C4-C5-N7	-7.24	107.08	110.70
1	AA	1071	C	C4'-C3'-C2'	-7.24	95.36	102.60
1	AA	1349	A	C5'-C4'-C3'	-7.24	104.42	116.00
26	BB	260	G	N3-C4-C5	-7.24	124.98	128.60
26	BB	710	U	O4'-C1'-N1	7.24	113.99	108.20
26	BB	1551	A	N9-C4-C5	-7.24	102.91	105.80
26	BB	2057	G	C5'-C4'-C3'	-7.24	104.42	116.00
26	BB	2328	A	C4-C5-C6	-7.24	113.38	117.00
26	BB	2459	A	C8-N9-C4	-7.24	102.91	105.80
26	BB	2647	U	C1'-O4'-C4'	-7.24	104.11	109.90
4	AD	46	G	C4-C5-N7	-7.23	107.91	110.80
4	AD	74	A	C6-C5-N7	7.23	137.36	132.30
26	BB	131	A	C4'-C3'-C2'	-7.23	95.37	102.60
26	BB	907	G	N3-C2-N2	7.23	124.96	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2121	G	C4-C5-C6	7.23	123.14	118.80
26	BB	2675	A	N1-C2-N3	-7.23	125.68	129.30
1	AA	1007	U	N3-C4-O4	7.23	124.46	119.40
26	BB	283	G	C4-C5-C6	7.23	123.14	118.80
26	BB	1225	G	O4'-C1'-N9	7.23	113.99	108.20
26	BB	1252	G	N3-C2-N2	7.23	124.96	119.90
26	BB	1599	U	N3-C4-O4	7.23	124.46	119.40
26	BB	1619	G	C5-C6-N1	7.23	115.12	111.50
26	BB	2033	A	N1-C6-N6	7.23	122.94	118.60
30	BF	79	ARG	NE-CZ-NH1	7.23	123.92	120.30
1	AA	1200	C	C4-C5-C6	7.23	121.02	117.40
25	BA	119	A	O4'-C1'-C2'	7.23	114.11	107.60
26	BB	25	U	C5-C6-N1	-7.23	119.08	122.70
6	AF	200	TRP	CG-CD1-NE1	-7.23	102.87	110.10
26	BB	505	A	C6-N1-C2	7.23	122.94	118.60
26	BB	962	G	C1'-O4'-C4'	7.23	115.68	109.90
26	BB	1584	U	C5-C6-N1	-7.23	119.09	122.70
26	BB	1591	A	N1-C6-N6	7.23	122.94	118.60
1	AA	566	G	O4'-C1'-N9	7.23	113.98	108.20
1	AA	571	U	N3-C2-O2	-7.23	117.14	122.20
1	AA	714	G	P-O3'-C3'	7.23	128.37	119.70
1	AA	908	A	C6-C5-N7	7.23	137.36	132.30
1	AA	1259	C	N3-C4-C5	7.23	124.79	121.90
26	BB	244	A	N9-C4-C5	7.23	108.69	105.80
26	BB	369	U	C3'-C2'-C1'	7.23	107.28	101.50
26	BB	902	C	C2-N3-C4	7.23	123.51	119.90
26	BB	1036	G	N3-C2-N2	-7.23	114.84	119.90
26	BB	1120	G	O4'-C4'-C3'	7.23	111.88	106.10
26	BB	1444	G	N1-C2-N2	7.23	122.70	116.20
26	BB	1843	C	N1-C2-O2	-7.23	114.56	118.90
26	BB	2180	U	C5-C6-N1	-7.23	119.09	122.70
26	BB	2380	C	C5-C6-N1	7.23	124.61	121.00
26	BB	2628	C	O4'-C1'-C2'	-7.23	98.57	105.80
26	BB	2648	G	C5-C6-N1	-7.23	107.89	111.50
26	BB	2882	A	N7-C8-N9	7.23	117.41	113.80
1	AA	129	A	O4'-C1'-N9	7.23	113.98	108.20
26	BB	1702	G	N1-C6-O6	-7.23	115.56	119.90
1	AA	264	C	N1-C2-N3	-7.22	114.14	119.20
1	AA	726	C	N1-C1'-C2'	-7.22	104.05	112.00
2	AB	10	G	C5-N7-C8	7.22	107.91	104.30
10	AJ	108	ARG	NE-CZ-NH1	7.22	123.91	120.30
26	BB	185	G	C5-C6-O6	-7.22	124.27	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1508	A	O4'-C1'-N9	7.22	113.98	108.20
26	BB	1570	A	C6-C5-N7	7.22	137.36	132.30
26	BB	1638	C	N1-C2-O2	7.22	123.23	118.90
26	BB	1828	G	C5-C6-O6	-7.22	124.27	128.60
26	BB	2060	A	C4-C5-N7	7.22	114.31	110.70
26	BB	2096	C	N3-C2-O2	-7.22	116.84	121.90
26	BB	2113	U	C5-C4-O4	-7.22	121.56	125.90
26	BB	2307	G	C4-C5-C6	7.22	123.14	118.80
21	AU	60	ARG	NE-CZ-NH1	7.22	123.91	120.30
26	BB	117	G	N3-C4-N9	7.22	130.33	126.00
26	BB	262	A	C5-C6-N1	7.22	121.31	117.70
26	BB	1157	G	O4'-C4'-C3'	7.22	111.88	106.10
26	BB	1964	G	N1-C6-O6	7.22	124.23	119.90
26	BB	2838	G	O4'-C1'-C2'	-7.22	98.58	105.80
34	BJ	157	VAL	CG1-CB-CG2	-7.22	99.34	110.90
1	AA	1300	G	C1'-O4'-C4'	7.22	115.68	109.90
2	AB	50	G	C4-C5-C6	7.22	123.13	118.80
26	BB	1416	G	N7-C8-N9	7.22	116.71	113.10
26	BB	1482	G	N9-C4-C5	7.22	108.29	105.40
26	BB	2114	A	C6-N1-C2	-7.22	114.27	118.60
26	BB	2115	G	N3-C4-N9	-7.22	121.67	126.00
26	BB	2245	U	N3-C2-O2	-7.22	117.15	122.20
1	AA	158	G	N3-C4-C5	-7.22	124.99	128.60
1	AA	1024	G	C5-C6-N1	7.22	115.11	111.50
26	BB	2555	U	N1-C2-N3	7.22	119.23	114.90
26	BB	2599	G	C5-C6-O6	-7.22	124.27	128.60
26	BB	2744	G	N9-C4-C5	7.22	108.29	105.40
1	AA	99	C	N3-C4-C5	-7.22	119.01	121.90
1	AA	911	U	O4'-C1'-N1	7.22	113.97	108.20
9	AI	70	VAL	CG1-CB-CG2	-7.22	99.35	110.90
26	BB	585	G	C3'-C2'-C1'	7.22	107.27	101.50
26	BB	947	A	O4'-C4'-C3'	7.22	111.87	106.10
26	BB	1093	G	C5'-C4'-O4'	7.22	117.76	109.10
26	BB	2614	A	P-O3'-C3'	7.22	128.36	119.70
1	AA	225	C	N3-C4-N4	7.22	123.05	118.00
1	AA	696	A	N1-C2-N3	-7.22	125.69	129.30
1	AA	1363	A	N9-C1'-C2'	7.22	123.38	114.00
4	AD	3	C	N1-C1'-C2'	-7.22	104.06	112.00
26	BB	305	C	N3-C4-N4	7.22	123.05	118.00
26	BB	1231	U	C2-N3-C4	-7.22	122.67	127.00
26	BB	1506	U	C3'-C2'-C1'	7.22	107.27	101.50
26	BB	1551	A	N1-C2-N3	-7.22	125.69	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1690	A	N9-C1'-C2'	-7.22	104.06	112.00
26	BB	1931	U	C4-C5-C6	-7.22	115.37	119.70
26	BB	2288	A	N1-C2-N3	-7.22	125.69	129.30
26	BB	2377	A	C5-N7-C8	-7.22	100.29	103.90
1	AA	303	A	C5'-C4'-O4'	7.21	117.76	109.10
6	AF	39	ARG	NE-CZ-NH1	7.21	123.91	120.30
17	AQ	74	ARG	NE-CZ-NH1	7.21	123.91	120.30
25	BA	78	A	C8-N9-C4	-7.21	102.91	105.80
26	BB	696	G	N9-C4-C5	-7.21	102.51	105.40
26	BB	1904	G	C6-C5-N7	-7.21	126.07	130.40
26	BB	2124	G	C4-N9-C1'	-7.21	117.12	126.50
26	BB	636	G	C5'-C4'-O4'	7.21	117.76	109.10
26	BB	2825	G	O4'-C1'-N9	7.21	113.97	108.20
1	AA	208	U	C1'-O4'-C4'	7.21	115.67	109.90
1	AA	443	C	C4-C5-C6	-7.21	113.79	117.40
1	AA	801	U	C4-C5-C6	7.21	124.03	119.70
1	AA	806	C	C2-N3-C4	7.21	123.51	119.90
1	AA	865	A	O4'-C1'-N9	7.21	113.97	108.20
1	AA	939	G	N3-C4-C5	-7.21	125.00	128.60
1	AA	992	U	C1'-O4'-C4'	-7.21	104.13	109.90
26	BB	82	U	C2-N3-C4	-7.21	122.67	127.00
26	BB	657	U	C5'-C4'-O4'	7.21	117.75	109.10
26	BB	902	C	C5-C4-N4	7.21	125.25	120.20
26	BB	2361	G	N3-C4-N9	7.21	130.33	126.00
26	BB	2615	U	C4-C5-C6	7.21	124.03	119.70
26	BB	2649	C	N1-C1'-C2'	-7.21	104.07	112.00
26	BB	2811	G	N1-C2-N2	7.21	122.69	116.20
1	AA	1083	U	N3-C2-O2	-7.21	117.15	122.20
1	AA	300	A	N9-C4-C5	7.21	108.68	105.80
1	AA	798	U	O4'-C1'-N1	7.21	113.97	108.20
1	AA	1347	G	C5-N7-C8	-7.21	100.70	104.30
2	AB	19	G	N7-C8-N9	-7.21	109.50	113.10
3	AC	55	A	C3'-C2'-C1'	7.21	107.27	101.50
26	BB	733	G	N3-C4-C5	-7.21	125.00	128.60
26	BB	1486	U	C6-N1-C2	-7.21	116.67	121.00
26	BB	1791	A	N9-C4-C5	7.21	108.68	105.80
26	BB	1812	U	P-O3'-C3'	7.21	128.35	119.70
26	BB	2518	A	N9-C4-C5	-7.21	102.92	105.80
26	BB	2546	U	P-O3'-C3'	7.21	128.35	119.70
26	BB	2569	G	N1-C2-N3	-7.21	119.58	123.90
1	AA	526	C	C4'-C3'-C2'	-7.21	95.39	102.60
1	AA	539	A	C5-N7-C8	-7.21	100.30	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	726	C	C4'-C3'-C2'	-7.21	95.39	102.60
1	AA	1490	U	O4'-C1'-N1	7.21	113.97	108.20
1	AA	1505	G	C5-C6-N1	7.21	115.10	111.50
10	AJ	137	ARG	NE-CZ-NH1	-7.21	116.70	120.30
25	BA	66	A	N1-C6-N6	7.21	122.92	118.60
26	BB	381	G	C2-N3-C4	7.21	115.50	111.90
26	BB	899	A	C6-C5-N7	-7.21	127.26	132.30
26	BB	1131	G	C8-N9-C4	-7.21	103.52	106.40
26	BB	2285	C	C2-N3-C4	7.21	123.50	119.90
26	BB	2377	A	C8-N9-C4	-7.21	102.92	105.80
26	BB	2806	C	N1-C2-O2	7.21	123.22	118.90
1	AA	862	C	N1-C2-O2	7.21	123.22	118.90
1	AA	882	C	C2-N3-C4	7.21	123.50	119.90
26	BB	393	C	C5-C6-N1	7.21	124.60	121.00
26	BB	1975	G	N1-C2-N3	-7.21	119.58	123.90
26	BB	2460	U	C5'-C4'-C3'	-7.21	104.47	116.00
42	BR	58	PHE	CB-CG-CD1	-7.21	115.76	120.80
1	AA	44	A	N3-C4-C5	-7.20	121.76	126.80
1	AA	405	U	N3-C4-C5	-7.20	110.28	114.60
1	AA	440	C	C2-N3-C4	7.20	123.50	119.90
1	AA	932	C	C5-C4-N4	-7.20	115.16	120.20
26	BB	271	G	C6-C5-N7	-7.20	126.08	130.40
26	BB	561	G	C3'-C2'-C1'	7.20	107.26	101.50
26	BB	1644	C	C5-C4-N4	-7.20	115.16	120.20
26	BB	2397	G	O4'-C1'-N9	7.20	113.96	108.20
26	BB	2657	A	C5-N7-C8	7.20	107.50	103.90
26	BB	2811	G	C5-C6-N1	-7.20	107.90	111.50
1	AA	821	G	C5-C6-O6	-7.20	124.28	128.60
1	AA	1485	U	N3-C2-O2	-7.20	117.16	122.20
26	BB	360	U	C2-N3-C4	-7.20	122.68	127.00
26	BB	1862	G	C8-N9-C4	-7.20	103.52	106.40
1	AA	1004	A	C8-N9-C4	7.20	108.68	105.80
1	AA	1446	A	C3'-C2'-C1'	7.20	107.26	101.50
1	AA	1496	C	C5-C4-N4	-7.20	115.16	120.20
4	AD	63	C	C5'-C4'-O4'	7.20	117.74	109.10
26	BB	15	G	C5-C6-O6	-7.20	124.28	128.60
26	BB	1663	G	C5'-C4'-C3'	-7.20	104.48	116.00
26	BB	1762	A	C4-C5-C6	7.20	120.60	117.00
26	BB	2029	G	C5-C6-O6	-7.20	124.28	128.60
26	BB	2631	G	N3-C4-N9	7.20	130.32	126.00
1	AA	470	C	O4'-C1'-N1	7.20	113.96	108.20
1	AA	497	G	P-O3'-C3'	7.20	128.34	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1092	C	C2-N3-C4	-7.20	116.30	119.90
26	BB	2183	A	N1-C6-N6	-7.20	114.28	118.60
1	AA	781	A	O4'-C1'-N9	7.20	113.96	108.20
25	BA	88	C	C3'-C2'-C1'	-7.20	95.74	101.50
26	BB	131	A	C3'-C2'-C1'	7.20	107.26	101.50
26	BB	1985	C	C4-C5-C6	-7.20	113.80	117.40
1	AA	542	G	C6-N1-C2	-7.20	120.78	125.10
1	AA	1175	G	C5-C6-N1	-7.20	107.90	111.50
1	AA	1191	A	N7-C8-N9	7.20	117.40	113.80
1	AA	1316	G	C5-C6-N1	7.20	115.10	111.50
26	BB	70	G	C6-N1-C2	-7.20	120.78	125.10
26	BB	249	C	N3-C4-N4	7.20	123.04	118.00
26	BB	900	A	C5-C6-N1	7.20	121.30	117.70
26	BB	1018	U	C3'-C2'-C1'	7.20	107.26	101.50
26	BB	1215	G	N9-C4-C5	-7.20	102.52	105.40
26	BB	1984	G	C8-N9-C4	7.20	109.28	106.40
26	BB	2259	U	N1-C2-O2	-7.20	117.76	122.80
26	BB	2611	C	C6-N1-C2	-7.20	117.42	120.30
26	BB	2669	G	C6-C5-N7	-7.20	126.08	130.40
1	AA	399	G	C8-N9-C4	7.19	109.28	106.40
1	AA	541	G	C8-N9-C4	-7.19	103.52	106.40
4	AD	6	G	N9-C4-C5	7.19	108.28	105.40
26	BB	536	G	C4-C5-N7	-7.19	107.92	110.80
26	BB	830	G	C4-C5-C6	7.19	123.11	118.80
1	AA	385	C	O4'-C1'-C2'	-7.19	98.61	105.80
1	AA	1367	C	C6-N1-C2	-7.19	117.42	120.30
1	AA	1428	A	C4-C5-C6	-7.19	113.41	117.00
25	BA	7	G	N7-C8-N9	7.19	116.69	113.10
25	BA	79	G	C5-N7-C8	7.19	107.89	104.30
26	BB	30	G	N1-C2-N2	7.19	122.67	116.20
26	BB	160	A	C4-C5-N7	7.19	114.30	110.70
26	BB	437	U	C1'-O4'-C4'	-7.19	104.15	109.90
26	BB	551	G	C8-N9-C4	-7.19	103.52	106.40
26	BB	1646	C	N3-C4-C5	-7.19	119.02	121.90
1	AA	761	G	C6-C5-N7	-7.19	126.09	130.40
1	AA	1141	C	C1'-O4'-C4'	-7.19	104.15	109.90
1	AA	1267	C	C5-C6-N1	7.19	124.59	121.00
26	BB	141	G	C3'-C2'-C1'	7.19	107.25	101.50
26	BB	474	G	C6-C5-N7	-7.19	126.09	130.40
26	BB	881	G	P-O5'-C5'	7.19	132.40	120.90
26	BB	1450	G	N3-C2-N2	7.19	124.93	119.90
26	BB	2825	G	C8-N9-C4	-7.19	103.52	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1012	A	O4'-C1'-N9	7.19	113.95	108.20
4	AD	63	C	C1'-O4'-C4'	7.19	115.65	109.90
26	BB	940	G	C5-N7-C8	-7.19	100.71	104.30
26	BB	973	A	C2-N3-C4	7.19	114.19	110.60
26	BB	1619	G	N3-C4-N9	-7.19	121.69	126.00
26	BB	1707	G	N1-C6-O6	-7.19	115.59	119.90
26	BB	2397	G	C5-C6-N1	7.19	115.09	111.50
26	BB	2472	G	C5-C6-O6	-7.19	124.29	128.60
26	BB	2708	G	C4'-C3'-C2'	-7.19	95.41	102.60
5	AE	122	ASP	CB-CG-OD1	-7.19	111.83	118.30
25	BA	112	G	C8-N9-C4	-7.19	103.53	106.40
26	BB	864	G	C6-N1-C2	-7.19	120.79	125.10
26	BB	2366	A	N9-C1'-C2'	-7.19	104.09	112.00
1	AA	294	U	C3'-C2'-C1'	7.18	107.25	101.50
2	AB	76	A	C6-C5-N7	-7.18	127.27	132.30
26	BB	1079	C	N3-C2-O2	-7.18	116.87	121.90
26	BB	2009	A	C8-N9-C4	-7.18	102.93	105.80
26	BB	2208	C	N3-C2-O2	-7.18	116.87	121.90
26	BB	2459	A	C6-C5-N7	7.18	137.33	132.30
1	AA	125	U	N1-C2-N3	7.18	119.21	114.90
3	AC	16	A	C8-N9-C4	-7.18	102.93	105.80
26	BB	252	G	C5-C6-O6	-7.18	124.29	128.60
26	BB	383	C	N3-C2-O2	-7.18	116.87	121.90
26	BB	1071	G	N7-C8-N9	-7.18	109.51	113.10
26	BB	1410	G	C8-N9-C4	7.18	109.27	106.40
26	BB	1645	G	N3-C4-C5	-7.18	125.01	128.60
26	BB	2403	C	O4'-C1'-N1	7.18	113.94	108.20
26	BB	2841	C	C4-C5-C6	-7.18	113.81	117.40
1	AA	224	U	O4'-C1'-N1	7.18	113.94	108.20
26	BB	1002	G	C4-C5-C6	7.18	123.11	118.80
26	BB	1110	G	C2-N3-C4	-7.18	108.31	111.90
26	BB	2152	G	N1-C6-O6	7.18	124.21	119.90
1	AA	456	A	C8-N9-C4	-7.18	102.93	105.80
1	AA	915	A	N9-C4-C5	7.18	108.67	105.80
26	BB	733	G	C2-N3-C4	7.18	115.49	111.90
26	BB	2301	C	N3-C4-C5	-7.18	119.03	121.90
54	B3	37	HIS	CG-CD2-NE2	-7.18	95.56	109.20
1	AA	1102	A	C5-C6-N1	7.18	121.29	117.70
1	AA	1480	A	C4'-C3'-C2'	-7.18	95.42	102.60
2	AB	73	G	C4-C5-N7	-7.18	107.93	110.80
26	BB	70	G	N1-C2-N2	-7.18	109.74	116.20
26	BB	400	G	N3-C4-N9	7.18	130.31	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1051	G	C5-N7-C8	-7.18	100.71	104.30
26	BB	1707	G	C5-C6-N1	7.18	115.09	111.50
26	BB	1715	G	N7-C8-N9	7.18	116.69	113.10
26	BB	2761	A	C4'-C3'-C2'	-7.18	95.42	102.60
1	AA	426	U	N3-C2-O2	-7.18	117.18	122.20
1	AA	606	G	N1-C2-N3	7.18	128.21	123.90
1	AA	700	G	N9-C4-C5	7.18	108.27	105.40
1	AA	1173	U	N1-C2-O2	7.18	127.82	122.80
26	BB	144	A	N1-C2-N3	-7.18	125.71	129.30
26	BB	558	U	N3-C4-C5	-7.18	110.29	114.60
26	BB	1083	U	C6-N1-C2	-7.18	116.69	121.00
26	BB	1906	G	C3'-C2'-C1'	7.18	107.24	101.50
26	BB	2163	A	N9-C1'-C2'	-7.18	104.11	112.00
1	AA	200	G	N3-C4-C5	-7.17	125.01	128.60
26	BB	28	A	C4-C5-N7	-7.17	107.11	110.70
26	BB	316	C	N1-C2-O2	7.17	123.20	118.90
26	BB	485	C	C6-N1-C1'	-7.17	112.19	120.80
26	BB	817	C	N3-C4-N4	7.17	123.02	118.00
26	BB	1097	U	C5-C4-O4	-7.17	121.59	125.90
26	BB	1217	U	N3-C4-O4	7.17	124.42	119.40
26	BB	1453	A	N3-C4-N9	7.17	133.14	127.40
26	BB	1599	U	C4-C5-C6	7.17	124.00	119.70
26	BB	2041	U	C5-C6-N1	7.17	126.29	122.70
26	BB	2719	G	C5-C6-N1	-7.17	107.91	111.50
42	BR	50	ARG	NE-CZ-NH1	-7.17	116.71	120.30
1	AA	903	G	N7-C8-N9	7.17	116.69	113.10
1	AA	954	G	C5-C6-N1	-7.17	107.91	111.50
25	BA	110	C	C2-N3-C4	7.17	123.49	119.90
26	BB	1295	C	O4'-C1'-N1	7.17	113.94	108.20
26	BB	2357	G	C8-N9-C4	-7.17	103.53	106.40
26	BB	2414	G	C4-C5-N7	7.17	113.67	110.80
1	AA	41	G	C5-C6-O6	-7.17	124.30	128.60
1	AA	743	A	N9-C4-C5	7.17	108.67	105.80
1	AA	1486	G	O4'-C1'-N9	7.17	113.94	108.20
20	AT	26	ARG	NE-CZ-NH2	-7.17	116.71	120.30
25	BA	64	G	C8-N9-C4	-7.17	103.53	106.40
26	BB	430	A	N7-C8-N9	7.17	117.39	113.80
26	BB	649	G	O4'-C1'-N9	7.17	113.94	108.20
26	BB	1600	C	C5-C6-N1	7.17	124.59	121.00
26	BB	1664	A	C1'-O4'-C4'	-7.17	104.16	109.90
1	AA	36	C	N3-C4-C5	-7.17	119.03	121.90
1	AA	143	A	C5'-C4'-O4'	7.17	117.70	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	192	A	C5-C6-N6	-7.17	117.96	123.70
4	AD	26	C	N3-C4-N4	7.17	123.02	118.00
26	BB	2119	A	O4'-C1'-C2'	-7.17	98.63	105.80
1	AA	426	U	C2-N3-C4	-7.17	122.70	127.00
2	AB	22	G	C2-N3-C4	7.17	115.48	111.90
26	BB	585	G	O4'-C4'-C3'	7.17	111.83	106.10
26	BB	1782	U	C6-N1-C2	-7.17	116.70	121.00
26	BB	1829	A	N9-C4-C5	7.17	108.67	105.80
26	BB	2453	A	N9-C4-C5	-7.17	102.93	105.80
26	BB	2454	G	N3-C4-C5	-7.17	125.02	128.60
26	BB	2715	C	N3-C4-N4	7.17	123.02	118.00
1	AA	1153	G	C6-N1-C2	-7.17	120.80	125.10
1	AA	1368	A	C5-C6-N6	-7.17	117.97	123.70
1	AA	1475	G	C8-N9-C4	7.17	109.27	106.40
2	AB	59	G	O4'-C1'-N9	7.17	113.93	108.20
26	BB	267	C	N3-C4-C5	-7.17	119.03	121.90
26	BB	1067	A	C2-N3-C4	7.17	114.18	110.60
26	BB	1799	G	O4'-C4'-C3'	7.17	111.83	106.10
26	BB	1963	U	C4-C5-C6	7.17	124.00	119.70
26	BB	2235	G	C4'-C3'-C2'	-7.17	95.43	102.60
26	BB	2370	G	P-O3'-C3'	7.17	128.30	119.70
26	BB	2565	A	P-O3'-C3'	7.17	128.30	119.70
26	BB	2688	G	N9-C4-C5	7.17	108.27	105.40
1	AA	346	G	C5-C6-O6	7.17	132.90	128.60
1	AA	993	G	C2-N3-C4	7.17	115.48	111.90
2	AB	7	G	O4'-C1'-N9	7.17	113.93	108.20
26	BB	270	A	C1'-O4'-C4'	7.17	115.63	109.90
26	BB	1010	A	C3'-C2'-C1'	-7.17	95.77	101.50
1	AA	337	G	N1-C6-O6	7.16	124.20	119.90
2	AB	31	U	O4'-C1'-N1	7.16	113.93	108.20
26	BB	1207	C	O4'-C1'-N1	7.16	113.93	108.20
26	BB	1634	A	O4'-C4'-C3'	7.16	111.83	106.10
26	BB	1743	G	C8-N9-C4	-7.16	103.53	106.40
26	BB	1831	G	N1-C6-O6	7.16	124.20	119.90
26	BB	2304	G	O4'-C1'-C2'	7.16	114.05	107.60
26	BB	2432	A	C5-C6-N6	-7.16	117.97	123.70
26	BB	2702	G	C1'-O4'-C4'	-7.16	104.17	109.90
1	AA	10	A	N1-C6-N6	7.16	122.90	118.60
1	AA	206	C	C4'-C3'-C2'	-7.16	95.44	102.60
3	AC	21	U	C1'-O4'-C4'	-7.16	104.17	109.90
26	BB	555	G	C5-N7-C8	-7.16	100.72	104.30
26	BB	599	A	C8-N9-C4	-7.16	102.94	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1624	U	C5-C6-N1	-7.16	119.12	122.70
26	BB	2891	U	C4-C5-C6	7.16	124.00	119.70
1	AA	953	G	C4-C5-N7	7.16	113.66	110.80
1	AA	1089	G	O4'-C1'-N9	7.16	113.93	108.20
4	AD	28	U	C5'-C4'-O4'	7.16	117.69	109.10
26	BB	677	A	N9-C1'-C2'	-7.16	104.12	112.00
26	BB	816	C	C5-C6-N1	7.16	124.58	121.00
26	BB	945	A	C2-N3-C4	7.16	114.18	110.60
26	BB	2059	A	C1'-O4'-C4'	7.16	115.63	109.90
26	BB	2072	C	C1'-O4'-C4'	-7.16	104.17	109.90
26	BB	2696	U	C2-N3-C4	-7.16	122.70	127.00
26	BB	2854	G	C5-C6-O6	7.16	132.90	128.60
1	AA	794	A	C5-C6-N6	7.16	129.43	123.70
26	BB	2021	C	C3'-C2'-C1'	7.16	107.23	101.50
26	BB	2039	U	N1-C2-N3	-7.16	110.60	114.90
26	BB	2125	G	C3'-C2'-C1'	7.16	107.23	101.50
26	BB	2879	A	N7-C8-N9	7.16	117.38	113.80
55	B4	39	ASP	CB-CG-OD1	7.16	124.74	118.30
1	AA	405	U	N3-C2-O2	-7.16	117.19	122.20
1	AA	1515	G	C5-N7-C8	7.16	107.88	104.30
26	BB	1954	G	O4'-C4'-C3'	7.16	111.83	106.10
26	BB	2476	A	N1-C6-N6	-7.16	114.31	118.60
1	AA	168	G	C5'-C4'-O4'	7.16	117.69	109.10
1	AA	762	U	N1-C2-O2	-7.16	117.79	122.80
25	BA	66	A	C5-C6-N6	-7.16	117.98	123.70
26	BB	1846	G	C6-N1-C2	-7.16	120.81	125.10
26	BB	1931	U	N3-C4-C5	7.16	118.89	114.60
1	AA	354	G	C5-C6-N1	7.15	115.08	111.50
26	BB	553	G	C4'-C3'-C2'	-7.15	95.45	102.60
26	BB	799	G	N9-C4-C5	7.15	108.26	105.40
26	BB	876	C	C5-C4-N4	-7.15	115.19	120.20
26	BB	1087	G	O4'-C4'-C3'	7.15	111.82	106.10
26	BB	1818	U	N1-C2-O2	-7.15	117.79	122.80
26	BB	2095	A	C5'-C4'-O4'	7.15	117.69	109.10
1	AA	782	A	N1-C2-N3	-7.15	125.72	129.30
4	AD	19	G	C6-C5-N7	-7.15	126.11	130.40
26	BB	1465	G	C4'-C3'-C2'	-7.15	95.45	102.60
26	BB	2816	G	C5-N7-C8	7.15	107.88	104.30
1	AA	536	C	C6-N1-C2	-7.15	117.44	120.30
4	AD	63	C	O4'-C1'-N1	7.15	113.92	108.20
26	BB	597	G	C4-C5-N7	-7.15	107.94	110.80
26	BB	1016	G	C2-N3-C4	7.15	115.47	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2155	U	O4'-C1'-N1	7.15	113.92	108.20
26	BB	77	G	N9-C4-C5	7.15	108.26	105.40
26	BB	718	A	N1-C6-N6	7.15	122.89	118.60
26	BB	1293	C	N3-C2-O2	-7.15	116.90	121.90
26	BB	2623	G	C2-N3-C4	7.15	115.47	111.90
32	BH	57	TYR	CB-CG-CD2	-7.15	116.71	121.00
1	AA	109	A	C3'-C2'-C1'	7.15	107.22	101.50
1	AA	392	C	C5'-C4'-O4'	7.15	117.68	109.10
1	AA	974	A	P-O3'-C3'	7.15	128.28	119.70
1	AA	1214	C	N3-C4-C5	-7.15	119.04	121.90
26	BB	361	G	C4-C5-N7	7.15	113.66	110.80
26	BB	381	G	N3-C4-C5	-7.15	125.03	128.60
26	BB	460	A	N7-C8-N9	-7.15	110.23	113.80
26	BB	535	G	N1-C6-O6	7.15	124.19	119.90
26	BB	686	U	C2-N1-C1'	7.15	126.28	117.70
26	BB	784	G	C8-N9-C4	-7.15	103.54	106.40
26	BB	1464	G	N9-C1'-C2'	-7.15	104.14	112.00
1	AA	1217	C	O4'-C1'-C2'	-7.15	98.65	105.80
26	BB	119	A	N1-C6-N6	-7.15	114.31	118.60
1	AA	637	C	O4'-C1'-N1	7.14	113.92	108.20
25	BA	31	C	C2-N3-C4	7.14	123.47	119.90
26	BB	407	G	C2-N3-C4	7.14	115.47	111.90
26	BB	2292	U	C6-N1-C2	7.14	125.29	121.00
26	BB	2678	C	N3-C4-N4	7.14	123.00	118.00
1	AA	159	G	N9-C1'-C2'	-7.14	104.14	112.00
1	AA	1240	U	C1'-O4'-C4'	-7.14	104.19	109.90
1	AA	1401	G	O4'-C1'-N9	7.14	113.91	108.20
26	BB	833	A	C4-C5-N7	-7.14	107.13	110.70
26	BB	848	C	C4'-C3'-C2'	-7.14	95.46	102.60
26	BB	879	G	C5-C6-O6	-7.14	124.31	128.60
26	BB	1254	A	C4-C5-N7	7.14	114.27	110.70
26	BB	1646	C	C4-C5-C6	-7.14	113.83	117.40
26	BB	2857	G	N1-C2-N3	-7.14	119.61	123.90
1	AA	262	A	C6-C5-N7	7.14	137.30	132.30
1	AA	268	U	N3-C4-O4	7.14	124.40	119.40
26	BB	453	A	C8-N9-C4	-7.14	102.94	105.80
32	BH	78	VAL	CA-CB-CG2	7.14	121.61	110.90
1	AA	143	A	C1'-O4'-C4'	7.14	115.61	109.90
1	AA	276	G	C6-C5-N7	-7.14	126.12	130.40
4	AD	19	G	C4-C5-N7	7.14	113.66	110.80
26	BB	1303	G	N1-C6-O6	7.14	124.18	119.90
26	BB	1443	U	C4-C5-C6	7.14	123.98	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1710	G	N3-C2-N2	-7.14	114.90	119.90
26	BB	1828	G	N9-C4-C5	7.14	108.26	105.40
26	BB	1899	A	O4'-C1'-N9	7.14	113.91	108.20
26	BB	2055	C	N3-C4-C5	7.14	124.76	121.90
26	BB	2308	G	C1'-O4'-C4'	7.14	115.61	109.90
26	BB	6	A	C5-C6-N6	7.14	129.41	123.70
26	BB	371	A	C2-N3-C4	-7.14	107.03	110.60
26	BB	1656	C	N1-C2-O2	7.14	123.18	118.90
26	BB	2308	G	O4'-C1'-N9	7.14	113.91	108.20
1	AA	194	C	C1'-O4'-C4'	7.14	115.61	109.90
2	AB	22	G	O4'-C1'-N9	7.14	113.91	108.20
25	BA	24	G	O4'-C1'-N9	-7.14	102.49	108.20
26	BB	295	G	C5'-C4'-O4'	7.14	117.66	109.10
26	BB	367	G	N1-C2-N3	7.14	128.18	123.90
26	BB	476	G	C8-N9-C4	-7.14	103.55	106.40
26	BB	559	G	C2-N3-C4	7.14	115.47	111.90
26	BB	1559	U	N3-C2-O2	-7.14	117.20	122.20
26	BB	2205	A	N7-C8-N9	7.14	117.37	113.80
26	BB	2404	U	N1-C2-N3	7.14	119.18	114.90
26	BB	2810	A	N1-C6-N6	-7.14	114.32	118.60
1	AA	562	U	C2-N3-C4	-7.13	122.72	127.00
1	AA	1441	A	N9-C4-C5	7.13	108.65	105.80
26	BB	587	C	C1'-O4'-C4'	7.13	115.61	109.90
26	BB	672	C	C5-C4-N4	-7.13	115.21	120.20
26	BB	1607	C	O4'-C1'-N1	7.13	113.91	108.20
26	BB	2151	U	C5-C6-N1	-7.13	119.13	122.70
49	BY	40	ARG	NE-CZ-NH1	7.13	123.87	120.30
1	AA	207	C	C4-C5-C6	-7.13	113.83	117.40
1	AA	359	G	N7-C8-N9	7.13	116.67	113.10
1	AA	1258	G	C6-N1-C2	-7.13	120.82	125.10
4	AD	28	U	C2-N3-C4	-7.13	122.72	127.00
26	BB	1093	G	N9-C4-C5	7.13	108.25	105.40
26	BB	1339	G	N1-C6-O6	-7.13	115.62	119.90
26	BB	1660	G	C6-N1-C2	-7.13	120.82	125.10
26	BB	362	A	C5-C6-N1	7.13	121.27	117.70
26	BB	699	A	C5-C6-N1	7.13	121.27	117.70
26	BB	1101	U	O4'-C1'-N1	7.13	113.91	108.20
26	BB	1339	G	C6-C5-N7	7.13	134.68	130.40
26	BB	1953	A	C2-N3-C4	7.13	114.17	110.60
1	AA	99	C	C6-N1-C2	-7.13	117.45	120.30
1	AA	671	G	C5-N7-C8	7.13	107.86	104.30
1	AA	1076	U	N3-C2-O2	-7.13	117.21	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	3	C	O4'-C1'-N1	7.13	113.90	108.20
25	BA	30	C	C5-C4-N4	-7.13	115.21	120.20
26	BB	1791	A	C4-C5-N7	-7.13	107.14	110.70
26	BB	1849	G	C4-C5-C6	7.13	123.08	118.80
26	BB	2054	A	C4-C5-C6	-7.13	113.44	117.00
1	AA	369	G	N3-C4-C5	-7.13	125.04	128.60
2	AB	18	G	N9-C4-C5	-7.13	102.55	105.40
4	AD	32	G	C1'-O4'-C4'	7.13	115.60	109.90
4	AD	64	G	N1-C2-N3	-7.13	119.62	123.90
25	BA	90	C	N1-C2-N3	-7.13	114.21	119.20
26	BB	331	C	C5-C6-N1	7.13	124.56	121.00
26	BB	432	A	O4'-C1'-N9	7.13	113.90	108.20
26	BB	693	A	P-O3'-C3'	7.13	128.25	119.70
26	BB	1395	A	C8-N9-C4	-7.13	102.95	105.80
26	BB	1740	G	C5-C6-N1	7.13	115.06	111.50
26	BB	1845	G	N7-C8-N9	7.13	116.66	113.10
26	BB	2681	C	N1-C2-O2	7.13	123.18	118.90
1	AA	1005	A	C5-C6-N1	7.13	121.26	117.70
26	BB	90	U	N3-C2-O2	-7.13	117.21	122.20
26	BB	695	G	N1-C2-N2	7.13	122.61	116.20
26	BB	1483	G	N7-C8-N9	7.13	116.66	113.10
1	AA	211	G	C4'-C3'-C2'	-7.12	95.47	102.60
1	AA	1477	U	C1'-O4'-C4'	7.12	115.60	109.90
4	AD	72	C	N1-C2-O2	7.12	123.17	118.90
25	BA	109	A	N9-C4-C5	7.12	108.65	105.80
26	BB	63	A	C5'-C4'-O4'	7.12	117.65	109.10
26	BB	1868	C	C6-N1-C2	7.12	123.15	120.30
1	AA	335	C	C3'-C2'-C1'	-7.12	95.80	101.50
1	AA	681	A	C8-N9-C4	-7.12	102.95	105.80
2	AB	58	A	N7-C8-N9	7.12	117.36	113.80
7	AG	114	ARG	NE-CZ-NH1	7.12	123.86	120.30
26	BB	378	C	C5-C4-N4	-7.12	115.21	120.20
26	BB	581	C	N1-C1'-C2'	-7.12	104.16	112.00
26	BB	661	A	C5-C6-N6	-7.12	118.00	123.70
26	BB	1355	G	C5-C6-N1	7.12	115.06	111.50
26	BB	1615	C	C3'-C2'-C1'	-7.12	95.80	101.50
26	BB	1909	C	N3-C2-O2	-7.12	116.91	121.90
1	AA	240	G	N7-C8-N9	-7.12	109.54	113.10
1	AA	309	A	O4'-C1'-N9	7.12	113.90	108.20
1	AA	317	U	N1-C2-N3	7.12	119.17	114.90
1	AA	327	A	C8-N9-C4	-7.12	102.95	105.80
1	AA	705	G	C6-N1-C2	-7.12	120.83	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1517	G	C2-N3-C4	7.12	115.46	111.90
26	BB	73	A	C6-N1-C2	7.12	122.87	118.60
26	BB	155	A	C4-C5-C6	-7.12	113.44	117.00
26	BB	387	U	N3-C4-O4	7.12	124.39	119.40
26	BB	665	U	C6-N1-C2	-7.12	116.73	121.00
26	BB	814	C	C4-C5-C6	7.12	120.96	117.40
26	BB	1124	G	C6-N1-C2	-7.12	120.83	125.10
26	BB	1280	G	N3-C4-C5	-7.12	125.04	128.60
26	BB	1920	C	C5-C6-N1	7.12	124.56	121.00
26	BB	2212	A	O4'-C1'-N9	7.12	113.90	108.20
1	AA	725	G	N9-C4-C5	7.12	108.25	105.40
1	AA	1348	U	O4'-C4'-C3'	7.12	111.80	106.10
7	AG	96	ARG	NE-CZ-NH2	7.12	123.86	120.30
26	BB	1396	U	N3-C4-C5	7.12	118.87	114.60
26	BB	1586	A	O4'-C1'-C2'	7.12	114.01	107.60
26	BB	1780	A	C4-C5-C6	-7.12	113.44	117.00
26	BB	2616	C	C4-C5-C6	7.12	120.96	117.40
30	BF	69	ARG	NE-CZ-NH2	-7.12	116.74	120.30
1	AA	905	U	N1-C2-N3	7.12	119.17	114.90
1	AA	1040	U	O4'-C1'-N1	7.12	113.89	108.20
1	AA	1130	A	N7-C8-N9	-7.12	110.24	113.80
1	AA	1263	C	N3-C2-O2	-7.12	116.92	121.90
1	AA	1290	G	O4'-C1'-N9	7.12	113.89	108.20
26	BB	462	C	O4'-C1'-N1	7.12	113.89	108.20
26	BB	467	G	C5-N7-C8	7.12	107.86	104.30
26	BB	782	A	C5-N7-C8	7.12	107.46	103.90
26	BB	1817	G	C2-N3-C4	7.12	115.46	111.90
26	BB	2309	A	C4-C5-C6	-7.12	113.44	117.00
1	AA	44	A	N1-C6-N6	7.12	122.87	118.60
1	AA	657	U	C5-C6-N1	-7.12	119.14	122.70
26	BB	1550	C	O4'-C1'-N1	7.12	113.89	108.20
26	BB	2685	G	C1'-O4'-C4'	-7.12	104.21	109.90
1	AA	513	C	C3'-C2'-C1'	7.12	107.19	101.50
1	AA	1125	U	O4'-C4'-C3'	7.12	111.79	106.10
26	BB	40	U	O4'-C1'-N1	7.12	113.89	108.20
26	BB	334	C	C6-N1-C2	-7.12	117.45	120.30
26	BB	693	A	N1-C2-N3	-7.12	125.74	129.30
26	BB	773	U	N3-C4-O4	7.12	124.38	119.40
26	BB	911	A	C4-C5-C6	-7.12	113.44	117.00
26	BB	1109	C	N1-C2-O2	7.12	123.17	118.90
26	BB	1475	G	N3-C4-C5	-7.12	125.04	128.60
26	BB	2271	G	P-O3'-C3'	7.12	128.24	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	BD	270	ARG	NE-CZ-NH2	7.12	123.86	120.30
1	AA	205	A	C4-C5-N7	7.11	114.26	110.70
1	AA	431	A	C4-C5-C6	-7.11	113.44	117.00
1	AA	856	C	O4'-C1'-N1	7.11	113.89	108.20
1	AA	1366	C	C5-C6-N1	-7.11	117.44	121.00
4	AD	13	C	C5-C4-N4	-7.11	115.22	120.20
4	AD	76	C	C5-C4-N4	-7.11	115.22	120.20
26	BB	43	G	C6-C5-N7	-7.11	126.13	130.40
26	BB	174	U	C1'-O4'-C4'	-7.11	104.21	109.90
26	BB	444	C	C3'-C2'-C1'	-7.11	95.81	101.50
26	BB	1546	G	C4-C5-C6	-7.11	114.53	118.80
26	BB	1819	A	C8-N9-C4	-7.11	102.95	105.80
26	BB	1889	A	N3-C4-C5	-7.11	121.82	126.80
26	BB	2110	G	N1-C2-N3	-7.11	119.63	123.90
26	BB	2228	G	C5'-C4'-O4'	7.11	117.64	109.10
3	AC	45	G	N3-C4-N9	7.11	130.27	126.00
1	AA	661	G	C8-N9-C4	-7.11	103.56	106.40
25	BA	17	C	O4'-C1'-N1	7.11	113.89	108.20
26	BB	482	A	C5-C6-N6	-7.11	118.01	123.70
26	BB	1146	C	N1-C1'-C2'	-7.11	104.18	112.00
26	BB	2558	C	C2-N3-C4	-7.11	116.34	119.90
26	BB	2837	A	C5-N7-C8	-7.11	100.34	103.90
1	AA	1177	G	N1-C2-N3	-7.11	119.64	123.90
1	AA	1392	G	C6-C5-N7	-7.11	126.14	130.40
4	AD	2	G	C6-N1-C2	7.11	129.36	125.10
25	BA	54	G	N3-C4-N9	7.11	130.26	126.00
26	BB	90	U	N3-C4-C5	7.11	118.86	114.60
26	BB	1014	A	O4'-C1'-N9	7.11	113.89	108.20
26	BB	2138	G	N7-C8-N9	7.11	116.65	113.10
26	BB	2336	A	C4-C5-C6	-7.11	113.45	117.00
1	AA	1188	A	C2-N3-C4	7.11	114.15	110.60
1	AA	1265	C	C5-C4-N4	7.11	125.17	120.20
1	AA	1499	A	C8-N9-C4	-7.11	102.96	105.80
26	BB	599	A	C2-N3-C4	7.11	114.15	110.60
26	BB	1027	A	C8-N9-C4	-7.11	102.96	105.80
26	BB	1293	C	N3-C4-N4	7.11	122.97	118.00
26	BB	2321	U	C2-N3-C4	-7.11	122.74	127.00
26	BB	2602	A	C2-N3-C4	-7.11	107.05	110.60
26	BB	2643	G	O4'-C1'-N9	-7.11	102.52	108.20
26	BB	2690	U	C2-N3-C4	-7.11	122.74	127.00
25	BA	49	C	C5-C6-N1	7.10	124.55	121.00
26	BB	689	A	C2'-C3'-O3'	7.10	125.13	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2045	C	C4-C5-C6	-7.10	113.85	117.40
26	BB	2382	G	C2-N3-C4	7.10	115.45	111.90
1	AA	26	A	N1-C2-N3	-7.10	125.75	129.30
1	AA	559	A	C5-N7-C8	7.10	107.45	103.90
1	AA	1391	U	C6-N1-C2	-7.10	116.74	121.00
26	BB	1144	A	C3'-C2'-C1'	-7.10	95.82	101.50
26	BB	1607	C	O4'-C4'-C3'	7.10	111.78	106.10
26	BB	1713	A	C5-N7-C8	-7.10	100.35	103.90
26	BB	1876	A	N1-C2-N3	-7.10	125.75	129.30
1	AA	182	A	C5-C6-N1	-7.10	114.15	117.70
1	AA	741	G	C8-N9-C1'	7.10	136.23	127.00
1	AA	1064	G	C6-C5-N7	-7.10	126.14	130.40
26	BB	334	C	O4'-C1'-N1	7.10	113.88	108.20
26	BB	426	C	C5'-C4'-O4'	7.10	117.62	109.10
26	BB	608	A	O3'-P-O5'	-7.10	90.51	104.00
26	BB	2624	G	C6-C5-N7	-7.10	126.14	130.40
1	AA	76	G	C4'-C3'-C2'	-7.10	95.50	102.60
1	AA	457	G	C5-C6-N1	7.10	115.05	111.50
1	AA	734	G	C2-N3-C4	7.10	115.45	111.90
1	AA	1185	G	N3-C4-C5	-7.10	125.05	128.60
1	AA	1228	C	N3-C2-O2	7.10	126.87	121.90
1	AA	1521	C	O4'-C1'-N1	7.10	113.88	108.20
26	BB	678	C	C5'-C4'-O4'	7.10	117.62	109.10
26	BB	778	G	N3-C4-C5	-7.10	125.05	128.60
26	BB	1632	A	N9-C4-C5	7.10	108.64	105.80
26	BB	1761	C	O4'-C1'-N1	7.10	113.88	108.20
26	BB	1822	C	N3-C4-N4	7.10	122.97	118.00
37	BM	70	ARG	CD-NE-CZ	7.10	133.54	123.60
1	AA	688	G	C6-N1-C2	-7.10	120.84	125.10
1	AA	721	G	C1'-O4'-C4'	7.10	115.58	109.90
1	AA	806	C	N1-C2-O2	7.10	123.16	118.90
1	AA	1335	U	P-O3'-C3'	7.10	128.22	119.70
1	AA	1378	C	C2-N3-C4	7.10	123.45	119.90
24	AX	12	ASP	CB-CG-OD2	-7.10	111.91	118.30
26	BB	519	U	N1-C2-N3	7.10	119.16	114.90
26	BB	765	C	C2-N3-C4	7.10	123.45	119.90
1	AA	196	A	C6-N1-C2	-7.10	114.34	118.60
1	AA	500	G	N3-C4-C5	-7.10	125.05	128.60
1	AA	1078	U	O4'-C1'-N1	7.10	113.88	108.20
26	BB	1075	C	C5-C4-N4	7.10	125.17	120.20
26	BB	1110	G	N7-C8-N9	7.10	116.65	113.10
26	BB	1778	U	O4'-C1'-N1	7.10	113.88	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2021	C	P-O3'-C3'	7.10	128.22	119.70
26	BB	2377	A	N9-C4-C5	7.10	108.64	105.80
1	AA	835	U	N1-C2-N3	-7.09	110.64	114.90
5	AE	107	ARG	NE-CZ-NH1	7.09	123.85	120.30
26	BB	1104	C	C4-C5-C6	7.09	120.95	117.40
26	BB	2027	G	C6-N1-C2	7.09	129.36	125.10
26	BB	2323	G	C5-C6-N1	-7.09	107.95	111.50
26	BB	2386	A	C4-C5-C6	-7.09	113.45	117.00
26	BB	2600	A	C1'-O4'-C4'	-7.09	104.22	109.90
30	BF	93	SER	N-CA-CB	-7.09	99.86	110.50
25	BA	44	G	C3'-C2'-C1'	-7.09	95.83	101.50
26	BB	804	A	C5-C6-N1	7.09	121.25	117.70
26	BB	1113	U	N1-C2-N3	7.09	119.16	114.90
26	BB	1572	A	C5-C6-N6	7.09	129.38	123.70
26	BB	2594	C	N1-C2-O2	7.09	123.16	118.90
1	AA	976	G	N9-C4-C5	7.09	108.24	105.40
25	BA	8	C	N3-C4-C5	-7.09	119.06	121.90
26	BB	207	A	C4-C5-C6	7.09	120.55	117.00
26	BB	455	C	O3'-P-O5'	7.09	117.47	104.00
26	BB	477	A	C4-C5-C6	-7.09	113.45	117.00
26	BB	830	G	N3-C2-N2	7.09	124.86	119.90
26	BB	969	G	C4'-C3'-C2'	-7.09	95.51	102.60
26	BB	1101	U	C4-C5-C6	7.09	123.95	119.70
26	BB	1370	C	N1-C1'-C2'	-7.09	104.20	112.00
26	BB	1444	G	C4-C5-C6	7.09	123.06	118.80
26	BB	1447	C	C4-C5-C6	7.09	120.95	117.40
26	BB	1733	G	P-O3'-C3'	7.09	128.21	119.70
26	BB	1853	A	N3-C4-N9	7.09	133.07	127.40
26	BB	2425	A	C2'-C3'-O3'	7.09	125.10	109.50
50	BZ	10	ARG	NE-CZ-NH1	-7.09	116.75	120.30
1	AA	498	A	C5-C6-N1	7.09	121.24	117.70
1	AA	498	A	C6-N1-C2	-7.09	114.35	118.60
1	AA	647	C	N3-C4-C5	-7.09	119.06	121.90
1	AA	776	G	C4-C5-N7	-7.09	107.96	110.80
1	AA	1140	C	C6-N1-C2	-7.09	117.47	120.30
1	AA	1455	G	N3-C4-C5	-7.09	125.06	128.60
3	AC	40	G	N9-C4-C5	7.09	108.24	105.40
21	AU	9	PHE	CB-CG-CD2	-7.09	115.84	120.80
26	BB	888	C	P-O3'-C3'	7.09	128.21	119.70
26	BB	1076	C	N1-C1'-C2'	-7.09	104.20	112.00
26	BB	1909	C	C6-N1-C2	-7.09	117.46	120.30
26	BB	2049	G	O4'-C4'-C3'	7.09	111.77	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2250	G	N3-C4-N9	-7.09	121.75	126.00
1	AA	344	A	N9-C4-C5	-7.09	102.97	105.80
1	AA	1367	C	O4'-C1'-N1	7.09	113.87	108.20
9	AI	38	ARG	NE-CZ-NH1	-7.09	116.76	120.30
26	BB	772	C	N1-C2-O2	7.09	123.15	118.90
26	BB	2347	C	C6-N1-C2	-7.09	117.47	120.30
26	BB	2500	U	C2-N3-C4	-7.09	122.75	127.00
1	AA	417	G	C2-N3-C4	7.09	115.44	111.90
1	AA	1391	U	C4-C5-C6	7.09	123.95	119.70
25	BA	6	G	C1'-O4'-C4'	7.09	115.57	109.90
25	BA	47	C	C1'-O4'-C4'	-7.09	104.23	109.90
26	BB	453	A	P-O3'-C3'	7.09	128.20	119.70
26	BB	503	A	O4'-C1'-C2'	7.09	113.98	107.60
26	BB	690	G	C3'-C2'-C1'	-7.09	95.83	101.50
26	BB	787	C	N3-C4-N4	7.09	122.96	118.00
26	BB	1493	C	N1-C2-O2	7.09	123.15	118.90
26	BB	1649	G	C5'-C4'-O4'	7.09	117.60	109.10
1	AA	480	U	C5'-C4'-C3'	-7.08	104.67	116.00
1	AA	1470	U	C6-N1-C2	-7.08	116.75	121.00
25	BA	13	G	N7-C8-N9	7.08	116.64	113.10
26	BB	645	C	O4'-C1'-N1	7.08	113.87	108.20
26	BB	936	A	C5-N7-C8	7.08	107.44	103.90
26	BB	1210	G	P-O3'-C3'	7.08	128.20	119.70
1	AA	677	U	C5-C6-N1	-7.08	119.16	122.70
1	AA	1152	A	C6-N1-C2	-7.08	114.35	118.60
1	AA	1291	U	O4'-C1'-N1	7.08	113.87	108.20
1	AA	1447	A	C4-C5-C6	-7.08	113.46	117.00
26	BB	428	A	C8-N9-C4	-7.08	102.97	105.80
26	BB	1143	A	N1-C6-N6	7.08	122.85	118.60
26	BB	1252	G	C4-C5-N7	-7.08	107.97	110.80
26	BB	1314	C	O4'-C1'-C2'	-7.08	98.72	105.80
26	BB	1713	A	N7-C8-N9	7.08	117.34	113.80
26	BB	1762	A	C5-C6-N6	7.08	129.37	123.70
26	BB	2287	A	N9-C4-C5	7.08	108.63	105.80
26	BB	2703	C	C3'-C2'-C1'	7.08	107.17	101.50
30	BF	88	ARG	NH1-CZ-NH2	-7.08	111.61	119.40
33	BI	108	VAL	CG1-CB-CG2	-7.08	99.57	110.90
33	BI	123	ARG	NE-CZ-NH2	-7.08	116.76	120.30
1	AA	1018	G	N3-C4-N9	-7.08	121.75	126.00
4	AD	29	C	N1-C1'-C2'	-7.08	104.21	112.00
25	BA	73	A	C2-N3-C4	7.08	114.14	110.60
26	BB	612	G	P-O3'-C3'	7.08	128.20	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	827	U	O4'-C1'-N1	7.08	113.86	108.20
26	BB	1692	U	N3-C2-O2	-7.08	117.24	122.20
26	BB	2114	A	N1-C2-N3	7.08	132.84	129.30
26	BB	2243	U	C4-C5-C6	7.08	123.95	119.70
40	BP	69	ARG	NE-CZ-NH1	7.08	123.84	120.30
1	AA	1361	G	C6-N1-C2	-7.08	120.85	125.10
2	AB	69	C	C5-C4-N4	-7.08	115.24	120.20
26	BB	605	G	C6-N1-C2	-7.08	120.85	125.10
26	BB	2838	G	C1'-O4'-C4'	7.08	115.56	109.90
26	BB	2883	A	C4-C5-C6	-7.08	113.46	117.00
1	AA	433	G	N3-C4-N9	-7.08	121.75	126.00
1	AA	663	A	C8-N9-C4	7.08	108.63	105.80
1	AA	741	G	N7-C8-N9	7.08	116.64	113.10
1	AA	1224	U	C3'-C2'-C1'	7.08	107.16	101.50
1	AA	1438	G	C5-C6-N1	7.08	115.04	111.50
4	AD	43	G	C5-C6-O6	7.08	132.85	128.60
25	BA	119	A	C1'-O4'-C4'	-7.08	104.24	109.90
26	BB	789	A	N7-C8-N9	-7.08	110.26	113.80
26	BB	1760	C	P-O3'-C3'	7.08	128.19	119.70
26	BB	2427	C	C4-C5-C6	-7.08	113.86	117.40
26	BB	2619	C	O4'-C1'-N1	7.08	113.86	108.20
26	BB	2826	A	N1-C6-N6	7.08	122.85	118.60
26	BB	2862	G	N3-C4-C5	-7.08	125.06	128.60
1	AA	94	G	C2-N3-C4	7.08	115.44	111.90
1	AA	1071	C	C2-N3-C4	-7.08	116.36	119.90
1	AA	1156	G	C5-N7-C8	7.08	107.84	104.30
26	BB	919	U	N1-C2-N3	7.08	119.15	114.90
26	BB	1277	G	N3-C2-N2	-7.08	114.95	119.90
26	BB	1893	C	C5-C4-N4	-7.08	115.25	120.20
26	BB	1987	A	N3-C4-C5	-7.08	121.85	126.80
26	BB	2115	G	C4-C5-N7	-7.08	107.97	110.80
1	AA	195	A	C5-C6-N1	-7.08	114.16	117.70
1	AA	222	C	O4'-C1'-N1	7.08	113.86	108.20
1	AA	1324	A	C8-N9-C4	-7.08	102.97	105.80
26	BB	330	A	N1-C2-N3	-7.08	125.76	129.30
26	BB	631	A	N1-C2-N3	7.08	132.84	129.30
26	BB	765	C	N1-C2-O2	7.08	123.14	118.90
26	BB	881	G	N9-C4-C5	7.08	108.23	105.40
26	BB	1921	G	N9-C4-C5	-7.08	102.57	105.40
26	BB	2014	A	C2-N3-C4	7.08	114.14	110.60
26	BB	2394	C	N3-C2-O2	-7.08	116.95	121.90
26	BB	2719	G	N3-C2-N2	-7.08	114.95	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	510	A	C4-C5-N7	-7.07	107.16	110.70
1	AA	1337	G	N1-C6-O6	-7.07	115.66	119.90
26	BB	413	C	C4-C5-C6	7.07	120.94	117.40
26	BB	654	A	C5-N7-C8	-7.07	100.36	103.90
26	BB	763	G	N1-C2-N3	-7.07	119.66	123.90
26	BB	889	C	N3-C2-O2	-7.07	116.95	121.90
26	BB	1842	G	O4'-C1'-N9	7.07	113.86	108.20
26	BB	2183	A	C5-N7-C8	-7.07	100.36	103.90
26	BB	2816	G	C5-C6-O6	7.07	132.84	128.60
26	BB	2852	G	N9-C4-C5	7.07	108.23	105.40
1	AA	1220	G	N7-C8-N9	7.07	116.64	113.10
26	BB	291	G	O4'-C1'-N9	7.07	113.86	108.20
26	BB	1449	G	C8-N9-C4	-7.07	103.57	106.40
26	BB	1483	G	C8-N9-C4	-7.07	103.57	106.40
26	BB	1968	G	N9-C1'-C2'	-7.07	104.22	112.00
26	BB	2419	U	N1-C2-O2	7.07	127.75	122.80
1	AA	513	C	C6-N1-C2	-7.07	117.47	120.30
1	AA	991	U	N3-C4-C5	7.07	118.84	114.60
1	AA	1038	C	C5-C6-N1	7.07	124.53	121.00
1	AA	1366	C	N3-C4-C5	-7.07	119.07	121.90
3	AC	36	U	C5'-C4'-C3'	-7.07	104.69	116.00
26	BB	196	A	N7-C8-N9	7.07	117.33	113.80
26	BB	1341	G	N1-C6-O6	-7.07	115.66	119.90
26	BB	1854	A	C5-C6-N1	7.07	121.24	117.70
26	BB	1887	C	C6-N1-C2	7.07	123.13	120.30
4	AD	7	G	C3'-C2'-C1'	7.07	107.16	101.50
26	BB	258	G	O4'-C1'-N9	7.07	113.86	108.20
26	BB	1614	A	C5'-C4'-O4'	-7.07	100.62	109.10
26	BB	2278	A	N9-C1'-C2'	-7.07	104.22	112.00
26	BB	2665	A	N7-C8-N9	7.07	117.33	113.80
1	AA	120	A	C5'-C4'-O4'	7.07	117.58	109.10
1	AA	345	C	N1-C2-O2	7.07	123.14	118.90
1	AA	1004	A	P-O3'-C3'	7.07	128.18	119.70
1	AA	1183	U	N3-C4-C5	-7.07	110.36	114.60
1	AA	1235	U	C2-N3-C4	-7.07	122.76	127.00
1	AA	1339	A	N1-C6-N6	-7.07	114.36	118.60
25	BA	60	C	O4'-C1'-N1	7.07	113.85	108.20
26	BB	579	G	C6-C5-N7	-7.07	126.16	130.40
26	BB	2250	G	O4'-C1'-C2'	7.07	113.96	107.60
26	BB	2309	A	N9-C4-C5	-7.07	102.97	105.80
26	BB	2760	C	N1-C1'-C2'	-7.07	104.22	112.00
26	BB	2901	C	C1'-O4'-C4'	-7.07	104.25	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	56	U	C6-N1-C2	-7.07	116.76	121.00
26	BB	997	G	N7-C8-N9	-7.07	109.57	113.10
26	BB	1892	C	P-O3'-C3'	7.07	128.18	119.70
26	BB	2688	G	C4-C5-N7	-7.07	107.97	110.80
26	BB	2859	G	C6-C5-N7	-7.07	126.16	130.40
1	AA	1069	C	N1-C2-O2	7.06	123.14	118.90
26	BB	798	G	C6-N1-C2	-7.06	120.86	125.10
26	BB	854	C	C6-N1-C2	-7.06	117.47	120.30
26	BB	1974	C	C4'-C3'-C2'	-7.06	95.54	102.60
26	BB	2203	U	C2-N3-C4	-7.06	122.76	127.00
1	AA	959	A	C3'-C2'-C1'	7.06	107.15	101.50
1	AA	1148	U	O4'-C1'-N1	7.06	113.85	108.20
1	AA	1408	A	C4-C5-C6	-7.06	113.47	117.00
1	AA	1492	A	C4-C5-C6	-7.06	113.47	117.00
25	BA	7	G	C4-C5-N7	7.06	113.62	110.80
26	BB	375	G	N1-C6-O6	7.06	124.14	119.90
26	BB	727	A	N1-C2-N3	-7.06	125.77	129.30
26	BB	1000	A	C2-N3-C4	7.06	114.13	110.60
26	BB	1607	C	N1-C1'-C2'	-7.06	104.23	112.00
26	BB	2029	G	C8-N9-C4	-7.06	103.58	106.40
26	BB	2042	A	C4-C5-N7	-7.06	107.17	110.70
26	BB	2224	G	N1-C2-N3	7.06	128.14	123.90
26	BB	2469	A	C5'-C4'-O4'	7.06	117.58	109.10
26	BB	2699	C	C6-N1-C2	-7.06	117.47	120.30
11	AK	9	MET	CA-CB-CG	-7.06	101.30	113.30
26	BB	74	A	N9-C1'-C2'	7.06	123.18	114.00
26	BB	348	A	C8-N9-C4	-7.06	102.98	105.80
26	BB	2377	A	N7-C8-N9	7.06	117.33	113.80
26	BB	2454	G	C2-N3-C4	7.06	115.43	111.90
26	BB	2506	U	C3'-C2'-C1'	7.06	107.15	101.50
26	BB	2705	A	N7-C8-N9	7.06	117.33	113.80
26	BB	2829	A	C4-C5-N7	-7.06	107.17	110.70
1	AA	397	A	C2-N3-C4	7.06	114.13	110.60
1	AA	1222	G	C2-N3-C4	7.06	115.43	111.90
1	AA	1297	G	C5-C6-N1	7.06	115.03	111.50
26	BB	633	A	C1'-O4'-C4'	7.06	115.55	109.90
26	BB	1047	G	C5-N7-C8	-7.06	100.77	104.30
26	BB	1230	A	C6-C5-N7	-7.06	127.36	132.30
26	BB	1807	G	N3-C2-N2	7.06	124.84	119.90
1	AA	336	A	C5-N7-C8	7.06	107.43	103.90
1	AA	991	U	C5-C4-O4	-7.06	121.67	125.90
1	AA	1260	G	N1-C2-N2	-7.06	109.85	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	88	C	C4-C5-C6	-7.06	113.87	117.40
26	BB	1192	G	N3-C2-N2	-7.06	114.96	119.90
26	BB	1908	C	C2-N3-C4	7.06	123.43	119.90
26	BB	1968	G	N7-C8-N9	7.06	116.63	113.10
26	BB	2560	A	C8-N9-C4	-7.06	102.98	105.80
26	BB	2744	G	C4-C5-C6	7.06	123.03	118.80
26	BB	2814	A	N7-C8-N9	7.06	117.33	113.80
1	AA	49	U	C5-C6-N1	7.06	126.23	122.70
1	AA	455	G	O4'-C1'-N9	7.06	113.84	108.20
4	AD	24	C	O4'-C1'-N1	7.06	113.84	108.20
25	BA	94	A	C5-C6-N1	-7.06	114.17	117.70
26	BB	1251	C	C6-N1-C2	-7.06	117.48	120.30
26	BB	1400	U	C4-C5-C6	7.06	123.93	119.70
26	BB	2555	U	C5-C6-N1	-7.06	119.17	122.70
1	AA	1454	G	N1-C2-N3	-7.05	119.67	123.90
3	AC	52	U	O4'-C4'-C3'	7.05	111.74	106.10
26	BB	47	C	C5-C6-N1	-7.05	117.47	121.00
26	BB	562	U	C5-C4-O4	-7.05	121.67	125.90
26	BB	704	G	C1'-O4'-C4'	-7.05	104.26	109.90
26	BB	1784	A	P-O3'-C3'	7.05	128.16	119.70
26	BB	2516	A	C2-N3-C4	7.05	114.13	110.60
26	BB	2778	A	N3-C4-N9	7.05	133.04	127.40
33	BI	25	TYR	CG-CD1-CE1	-7.05	115.66	121.30
1	AA	242	G	N1-C6-O6	-7.05	115.67	119.90
26	BB	1151	A	C5'-C4'-O4'	7.05	117.56	109.10
26	BB	1388	G	N3-C4-C5	-7.05	125.07	128.60
26	BB	1975	G	C1'-O4'-C4'	-7.05	104.26	109.90
26	BB	2655	G	O4'-C1'-N9	7.05	113.84	108.20
1	AA	568	G	C4-C5-N7	-7.05	107.98	110.80
26	BB	573	U	C2-N3-C4	-7.05	122.77	127.00
26	BB	1175	A	C4-C5-N7	-7.05	107.17	110.70
26	BB	2211	A	N7-C8-N9	7.05	117.33	113.80
33	BI	29	PHE	CB-CG-CD1	7.05	125.74	120.80
1	AA	698	G	C2-N3-C4	-7.05	108.38	111.90
1	AA	1001	C	C1'-O4'-C4'	-7.05	104.26	109.90
1	AA	1387	G	C5-C6-O6	-7.05	124.37	128.60
1	AA	1508	A	C5'-C4'-O4'	7.05	117.56	109.10
20	AT	61	ARG	NE-CZ-NH2	7.05	123.83	120.30
26	BB	189	G	O4'-C1'-N9	7.05	113.84	108.20
26	BB	626	A	O4'-C1'-N9	7.05	113.84	108.20
26	BB	1036	G	C5-C6-O6	-7.05	124.37	128.60
26	BB	2112	G	N3-C4-C5	-7.05	125.08	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2536	G	N3-C2-N2	-7.05	114.97	119.90
26	BB	2579	C	N3-C4-C5	-7.05	119.08	121.90
26	BB	2598	A	C6-C5-N7	-7.05	127.36	132.30
26	BB	2867	G	N3-C4-C5	-7.05	125.08	128.60
26	BB	1629	U	N3-C2-O2	-7.05	117.27	122.20
26	BB	2179	C	N1-C2-O2	7.05	123.13	118.90
1	AA	13	U	C5-C4-O4	-7.05	121.67	125.90
1	AA	419	C	C5-C4-N4	7.05	125.13	120.20
1	AA	1024	G	C4'-C3'-C2'	-7.05	95.55	102.60
1	AA	1401	G	C6-N1-C2	-7.05	120.87	125.10
2	AB	45	U	C5-C6-N1	-7.05	119.18	122.70
26	BB	1745	A	C5-N7-C8	7.05	107.42	103.90
1	AA	136	C	N3-C4-C5	-7.04	119.08	121.90
1	AA	974	A	N3-C4-N9	-7.04	121.76	127.40
3	AC	19	A	C6-N1-C2	7.04	122.83	118.60
26	BB	1378	A	C8-N9-C4	-7.04	102.98	105.80
26	BB	1936	A	C1'-O4'-C4'	7.04	115.54	109.90
26	BB	2651	C	N3-C2-O2	-7.04	116.97	121.90
1	AA	669	G	N1-C2-N3	-7.04	119.67	123.90
4	AD	24	C	N3-C4-C5	7.04	124.72	121.90
26	BB	198	C	N3-C2-O2	-7.04	116.97	121.90
26	BB	1185	G	C4-C5-N7	-7.04	107.98	110.80
26	BB	1513	U	N1-C2-O2	-7.04	117.87	122.80
26	BB	1770	G	C6-C5-N7	-7.04	126.17	130.40
26	BB	2388	A	N9-C4-C5	-7.04	102.98	105.80
26	BB	2716	C	C2-N3-C4	-7.04	116.38	119.90
26	BB	2751	G	C5-C6-O6	-7.04	124.37	128.60
46	BV	12	ARG	NE-CZ-NH2	-7.04	116.78	120.30
26	BB	569	U	N1-C2-N3	-7.04	110.67	114.90
26	BB	577	G	N1-C6-O6	-7.04	115.68	119.90
26	BB	1258	U	N1-C2-N3	7.04	119.12	114.90
26	BB	1494	A	C8-N9-C4	-7.04	102.98	105.80
26	BB	1608	A	C8-N9-C4	-7.04	102.98	105.80
26	BB	1696	G	N3-C4-C5	-7.04	125.08	128.60
26	BB	2015	A	C8-N9-C4	-7.04	102.98	105.80
26	BB	2479	U	O3'-P-O5'	-7.04	90.62	104.00
1	AA	485	U	C4'-C3'-C2'	-7.04	95.56	102.60
1	AA	818	G	C5'-C4'-C3'	-7.04	104.74	116.00
26	BB	913	U	P-O3'-C3'	7.04	128.15	119.70
26	BB	1301	A	C5-C6-N6	7.04	129.33	123.70
26	BB	1740	G	C6-N1-C2	-7.04	120.88	125.10
1	AA	101	A	C8-N9-C4	-7.04	102.98	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	233	C	C5-C4-N4	7.04	125.13	120.20
1	AA	305	G	O4'-C1'-N9	7.04	113.83	108.20
1	AA	621	A	N7-C8-N9	-7.04	110.28	113.80
2	AB	38	A	C3'-C2'-C1'	-7.04	95.87	101.50
26	BB	450	G	O4'-C1'-N9	7.04	113.83	108.20
26	BB	611	C	P-O3'-C3'	7.04	128.15	119.70
26	BB	1693	U	O4'-C1'-N1	7.04	113.83	108.20
26	BB	1786	A	O4'-C1'-C2'	-7.04	98.76	105.80
1	AA	1410	A	C3'-C2'-C1'	7.04	107.13	101.50
3	AC	44	U	C2-N1-C1'	7.04	126.14	117.70
26	BB	917	A	O4'-C1'-N9	7.04	113.83	108.20
26	BB	1528	A	C8-N9-C4	7.04	108.61	105.80
26	BB	420	C	C2-N3-C4	7.04	123.42	119.90
26	BB	488	G	C8-N9-C4	-7.04	103.59	106.40
26	BB	651	G	N7-C8-N9	7.04	116.62	113.10
26	BB	705	A	C5-N7-C8	-7.04	100.38	103.90
26	BB	1509	A	N1-C2-N3	-7.04	125.78	129.30
26	BB	1518	C	C3'-C2'-C1'	-7.04	95.87	101.50
26	BB	1624	U	C6-N1-C2	7.04	125.22	121.00
26	BB	1631	G	N3-C4-C5	-7.04	125.08	128.60
26	BB	1944	U	P-O3'-C3'	7.04	128.14	119.70
26	BB	2824	C	C6-N1-C2	-7.04	117.49	120.30
1	AA	719	C	O4'-C1'-N1	7.03	113.83	108.20
1	AA	1159	U	C1'-O4'-C4'	-7.03	104.27	109.90
1	AA	1370	G	C5-C6-N1	7.03	115.02	111.50
1	AA	1503	A	P-O3'-C3'	7.03	128.14	119.70
14	AN	126	ARG	NE-CZ-NH1	7.03	123.82	120.30
26	BB	497	A	C5-N7-C8	-7.03	100.38	103.90
26	BB	1144	A	C2-N3-C4	7.03	114.12	110.60
26	BB	1356	G	C2-N3-C4	-7.03	108.38	111.90
26	BB	1585	C	C4'-C3'-C2'	-7.03	95.57	102.60
26	BB	2080	A	N9-C4-C5	-7.03	102.99	105.80
26	BB	2276	G	C5'-C4'-C3'	-7.03	104.75	116.00
1	AA	508	U	N1-C2-O2	-7.03	117.88	122.80
2	AB	52	A	O4'-C1'-C2'	-7.03	98.77	105.80
26	BB	2011	U	C6-N1-C2	-7.03	116.78	121.00
1	AA	192	A	N3-C4-C5	-7.03	121.88	126.80
1	AA	1036	A	N7-C8-N9	7.03	117.31	113.80
1	AA	1297	G	N3-C2-N2	-7.03	114.98	119.90
26	BB	165	A	C8-N9-C4	-7.03	102.99	105.80
26	BB	1753	G	N1-C2-N3	7.03	128.12	123.90
26	BB	1777	U	N3-C4-C5	-7.03	110.38	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1786	A	C8-N9-C4	-7.03	102.99	105.80
26	BB	1820	U	P-O3'-C3'	7.03	128.14	119.70
26	BB	1829	A	C3'-C2'-C1'	-7.03	95.88	101.50
52	B1	37	ARG	NE-CZ-NH2	-7.03	116.78	120.30
1	AA	183	C	C4'-C3'-C2'	-7.03	95.57	102.60
1	AA	1178	G	C8-N9-C1'	7.03	136.14	127.00
26	BB	585	G	C4'-C3'-C2'	-7.03	95.57	102.60
26	BB	707	G	O4'-C4'-C3'	7.03	111.72	106.10
26	BB	2484	G	N3-C4-N9	7.03	130.22	126.00
26	BB	2744	G	C6-N1-C2	-7.03	120.88	125.10
1	AA	311	C	C1'-O4'-C4'	7.03	115.52	109.90
26	BB	238	C	N1-C2-N3	7.03	124.12	119.20
26	BB	425	G	N1-C6-O6	7.03	124.12	119.90
26	BB	1302	A	O4'-C1'-C2'	-7.03	98.77	105.80
26	BB	1875	G	C5-N7-C8	-7.03	100.79	104.30
26	BB	2230	G	N9-C4-C5	7.03	108.21	105.40
26	BB	2241	A	O4'-C1'-N9	7.03	113.82	108.20
26	BB	2280	G	C6-N1-C2	-7.03	120.88	125.10
26	BB	2747	G	C5'-C4'-O4'	7.03	117.53	109.10
26	BB	2887	A	C2-N3-C4	7.03	114.11	110.60
42	BR	73	PHE	CB-CG-CD1	-7.03	115.88	120.80
1	AA	280	C	C1'-O4'-C4'	-7.03	104.28	109.90
1	AA	413	G	N3-C4-N9	7.03	130.22	126.00
1	AA	745	G	N9-C1'-C2'	-7.03	104.27	112.00
1	AA	1377	A	P-O3'-C3'	7.03	128.13	119.70
3	AC	30	U	N1-C2-O2	7.03	127.72	122.80
26	BB	248	G	N9-C4-C5	-7.03	102.59	105.40
26	BB	1589	U	C1'-O4'-C4'	-7.03	104.28	109.90
26	BB	1651	G	N9-C4-C5	-7.03	102.59	105.40
26	BB	1836	C	N3-C4-C5	-7.03	119.09	121.90
1	AA	227	G	O4'-C1'-N9	7.02	113.82	108.20
1	AA	423	G	N3-C4-C5	-7.02	125.09	128.60
1	AA	1468	A	C5-N7-C8	7.02	107.41	103.90
3	AC	35	G	C2-N3-C4	7.02	115.41	111.90
26	BB	1435	G	N3-C4-C5	-7.02	125.09	128.60
26	BB	1586	A	C3'-C2'-C1'	-7.02	95.88	101.50
26	BB	1754	A	N1-C6-N6	-7.02	114.39	118.60
26	BB	2470	G	N1-C6-O6	-7.02	115.69	119.90
1	AA	1	A	O4'-C1'-N9	7.02	113.82	108.20
1	AA	1457	G	C6-C5-N7	-7.02	126.19	130.40
1	AA	1491	G	N1-C2-N3	7.02	128.11	123.90
26	BB	1284	A	O4'-C1'-N9	7.02	113.82	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1412	U	C5'-C4'-O4'	7.02	117.53	109.10
26	BB	1692	U	C4'-C3'-C2'	-7.02	95.58	102.60
27	BC	102	ASP	CB-CG-OD2	-7.02	111.98	118.30
1	AA	770	C	O4'-C4'-C3'	7.02	111.72	106.10
1	AA	908	A	C4-C5-C6	-7.02	113.49	117.00
1	AA	1383	C	O4'-C1'-N1	7.02	113.82	108.20
26	BB	1964	G	N3-C4-C5	-7.02	125.09	128.60
26	BB	1978	A	O4'-C1'-N9	7.02	113.82	108.20
1	AA	35	G	N3-C4-C5	-7.02	125.09	128.60
1	AA	59	A	N1-C2-N3	7.02	132.81	129.30
1	AA	530	G	C6-C5-N7	-7.02	126.19	130.40
1	AA	567	G	C6-N1-C2	-7.02	120.89	125.10
1	AA	577	G	C4-C5-N7	-7.02	107.99	110.80
2	AB	50	G	C5-N7-C8	-7.02	100.79	104.30
6	AF	231	ARG	NE-CZ-NH2	-7.02	116.79	120.30
17	AQ	12	ARG	NE-CZ-NH1	7.02	123.81	120.30
26	BB	664	G	C5-N7-C8	-7.02	100.79	104.30
26	BB	944	C	C5-C4-N4	-7.02	115.29	120.20
26	BB	1033	U	C4'-C3'-C2'	-7.02	95.58	102.60
26	BB	1878	G	N9-C4-C5	-7.02	102.59	105.40
26	BB	2144	G	P-O3'-C3'	7.02	128.12	119.70
26	BB	2461	A	C3'-C2'-C1'	7.02	107.11	101.50
26	BB	2767	C	N1-C2-O2	7.02	123.11	118.90
40	BP	80	PHE	CB-CG-CD1	-7.02	115.89	120.80
1	AA	26	A	C3'-C2'-C1'	7.02	107.11	101.50
1	AA	445	G	C6-N1-C2	-7.02	120.89	125.10
2	AB	25	C	N3-C4-C5	-7.02	119.09	121.90
7	AG	103	ARG	NE-CZ-NH2	-7.02	116.79	120.30
26	BB	388	G	N1-C2-N3	-7.02	119.69	123.90
26	BB	712	G	N7-C8-N9	7.02	116.61	113.10
26	BB	954	G	C5-C6-N1	7.02	115.01	111.50
26	BB	1281	G	N7-C8-N9	7.02	116.61	113.10
26	BB	1792	G	C4-C5-N7	-7.02	107.99	110.80
26	BB	2141	G	C2-N3-C4	-7.02	108.39	111.90
1	AA	278	G	C4'-C3'-C2'	-7.02	95.58	102.60
1	AA	1542	A	C3'-C2'-C1'	-7.02	95.89	101.50
26	BB	160	A	C5-N7-C8	-7.02	100.39	103.90
26	BB	324	A	C4-C5-N7	-7.02	107.19	110.70
26	BB	775	G	O4'-C4'-C3'	7.02	111.71	106.10
26	BB	2020	A	C4-C5-N7	7.02	114.21	110.70
26	BB	2702	G	O4'-C4'-C3'	7.02	111.71	106.10
35	BK	66	PHE	CB-CG-CD1	7.02	125.71	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1088	G	C5-C6-N1	7.01	115.01	111.50
12	AL	102	PHE	CB-CG-CD1	7.01	125.71	120.80
25	BA	50	A	C3'-C2'-C1'	7.01	107.11	101.50
26	BB	844	A	N3-C4-C5	-7.01	121.89	126.80
26	BB	924	G	C4-C5-C6	7.01	123.01	118.80
26	BB	1079	C	C4'-C3'-C2'	-7.01	95.58	102.60
26	BB	1135	C	C5'-C4'-O4'	7.01	117.52	109.10
26	BB	1637	A	N1-C6-N6	7.01	122.81	118.60
26	BB	2902	C	C4'-C3'-C2'	-7.01	95.58	102.60
1	AA	267	C	O4'-C1'-N1	7.01	113.81	108.20
26	BB	25	U	N1-C2-O2	7.01	127.71	122.80
26	BB	176	A	N1-C2-N3	7.01	132.81	129.30
26	BB	962	G	C6-C5-N7	-7.01	126.19	130.40
26	BB	2295	C	C5'-C4'-C3'	-7.01	104.78	116.00
1	AA	435	A	C5-C6-N6	-7.01	118.09	123.70
26	BB	391	A	N7-C8-N9	7.01	117.31	113.80
26	BB	419	U	O4'-C1'-N1	7.01	113.81	108.20
26	BB	654	A	C6-C5-N7	7.01	137.21	132.30
26	BB	1256	G	P-O3'-C3'	7.01	128.11	119.70
26	BB	1495	A	C5-N7-C8	-7.01	100.39	103.90
26	BB	1581	G	N1-C2-N2	-7.01	109.89	116.20
26	BB	1604	C	C4-C5-C6	7.01	120.91	117.40
26	BB	1964	G	C5-C6-N1	7.01	115.01	111.50
26	BB	2892	G	C2-N3-C4	7.01	115.41	111.90
1	AA	517	G	N9-C1'-C2'	-7.01	104.29	112.00
1	AA	898	G	O4'-C1'-N9	7.01	113.81	108.20
4	AD	34	U	O4'-C1'-N1	7.01	113.81	108.20
26	BB	322	A	C5-C6-N1	-7.01	114.19	117.70
26	BB	1338	G	N1-C6-O6	-7.01	115.69	119.90
26	BB	2066	C	N1-C1'-C2'	-7.01	104.29	112.00
26	BB	2167	U	C5-C6-N1	-7.01	119.20	122.70
26	BB	2231	U	N3-C4-O4	7.01	124.31	119.40
26	BB	2349	G	C5'-C4'-O4'	7.01	117.51	109.10
26	BB	2823	A	N3-C4-C5	-7.01	121.89	126.80
1	AA	984	C	C5'-C4'-O4'	7.01	117.51	109.10
25	BA	106	G	C4-N9-C1'	-7.01	117.39	126.50
26	BB	2492	U	N1-C2-N3	7.01	119.11	114.90
1	AA	446	G	N1-C6-O6	-7.01	115.70	119.90
1	AA	1341	U	C5'-C4'-O4'	7.01	117.51	109.10
1	AA	1467	C	O4'-C1'-N1	7.01	113.80	108.20
26	BB	144	A	C5'-C4'-O4'	7.01	117.51	109.10
26	BB	952	G	N3-C4-C5	-7.01	125.10	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1511	G	N9-C4-C5	-7.01	102.60	105.40
26	BB	1635	A	N7-C8-N9	7.01	117.30	113.80
26	BB	1824	G	C2-N3-C4	7.01	115.40	111.90
26	BB	2084	C	C1'-O4'-C4'	-7.01	104.30	109.90
26	BB	2121	G	C5-C6-O6	7.01	132.80	128.60
26	BB	2421	G	O4'-C4'-C3'	7.01	111.70	106.10
26	BB	2482	A	C5-C6-N6	7.01	129.31	123.70
1	AA	194	C	C5-C6-N1	-7.00	117.50	121.00
26	BB	1947	C	C5-C4-N4	-7.00	115.30	120.20
26	BB	2085	U	C3'-C2'-C1'	-7.00	95.90	101.50
1	AA	187	G	N7-C8-N9	7.00	116.60	113.10
1	AA	289	G	N1-C6-O6	-7.00	115.70	119.90
1	AA	1077	G	O4'-C4'-C3'	7.00	111.70	106.10
1	AA	1182	G	N9-C4-C5	7.00	108.20	105.40
1	AA	1208	C	C1'-O4'-C4'	-7.00	104.30	109.90
4	AD	77	A	C4-C5-C6	7.00	120.50	117.00
9	AI	89	VAL	CA-CB-CG1	7.00	121.41	110.90
26	BB	97	C	C2-N3-C4	7.00	123.40	119.90
26	BB	1326	U	O4'-C1'-N1	7.00	113.80	108.20
26	BB	1740	G	C6-C5-N7	-7.00	126.20	130.40
26	BB	1921	G	N1-C2-N3	-7.00	119.70	123.90
26	BB	2513	A	P-O3'-C3'	7.00	128.10	119.70
26	BB	2799	A	C8-N9-C4	-7.00	103.00	105.80
1	AA	189	A	N3-C4-N9	7.00	133.00	127.40
1	AA	433	G	N9-C1'-C2'	-7.00	104.30	112.00
1	AA	530	G	C8-N9-C4	-7.00	103.60	106.40
1	AA	588	G	N9-C1'-C2'	-7.00	104.30	112.00
1	AA	610	U	C6-N1-C2	-7.00	116.80	121.00
1	AA	654	G	N1-C2-N2	7.00	122.50	116.20
1	AA	952	U	O4'-C1'-N1	7.00	113.80	108.20
1	AA	1030	U	O4'-C1'-N1	7.00	113.80	108.20
1	AA	1225	A	N7-C8-N9	7.00	117.30	113.80
1	AA	1231	G	C1'-O4'-C4'	-7.00	104.30	109.90
26	BB	553	G	C8-N9-C4	-7.00	103.60	106.40
26	BB	671	C	C3'-C2'-C1'	-7.00	95.90	101.50
26	BB	1072	C	O4'-C1'-N1	7.00	113.80	108.20
26	BB	1518	C	O4'-C1'-N1	7.00	113.80	108.20
26	BB	2071	A	C6-N1-C2	-7.00	114.40	118.60
26	BB	2289	G	C8-N9-C4	-7.00	103.60	106.40
26	BB	2429	G	C6-N1-C2	-7.00	120.90	125.10
26	BB	2436	G	O4'-C1'-N9	7.00	113.80	108.20
1	AA	1302	C	P-O3'-C3'	7.00	128.10	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	308	G	C1'-O4'-C4'	7.00	115.50	109.90
26	BB	1095	A	C8-N9-C4	-7.00	103.00	105.80
26	BB	1286	A	C5-C6-N6	-7.00	118.10	123.70
26	BB	2198	A	C5-C6-N1	7.00	121.20	117.70
26	BB	2284	A	C4-C5-C6	7.00	120.50	117.00
26	BB	2673	G	N3-C4-N9	7.00	130.20	126.00
1	AA	247	G	C4-C5-N7	-7.00	108.00	110.80
1	AA	1097	C	C5-C4-N4	-7.00	115.30	120.20
1	AA	1185	G	N9-C4-C5	7.00	108.20	105.40
1	AA	1188	A	C6-N1-C2	-7.00	114.40	118.60
26	BB	144	A	C8-N9-C4	-7.00	103.00	105.80
26	BB	863	A	N1-C6-N6	7.00	122.80	118.60
26	BB	1529	G	C3'-C2'-C1'	7.00	107.10	101.50
26	BB	1864	U	O4'-C1'-N1	7.00	113.80	108.20
26	BB	2349	G	C4-C5-C6	7.00	123.00	118.80
26	BB	2542	A	C5-C6-N1	7.00	121.20	117.70
1	AA	420	U	C4-C5-C6	7.00	123.90	119.70
1	AA	714	G	O5'-P-OP2	-7.00	99.40	105.70
1	AA	794	A	C4-C5-N7	-7.00	107.20	110.70
1	AA	1221	G	N1-C6-O6	-7.00	115.70	119.90
1	AA	1295	U	C4-C5-C6	-7.00	115.50	119.70
1	AA	1324	A	N1-C2-N3	-7.00	125.80	129.30
17	AQ	60	ARG	NE-CZ-NH2	-7.00	116.80	120.30
26	BB	972	A	N1-C2-N3	-7.00	125.80	129.30
26	BB	1265	A	C5-C6-N1	7.00	121.20	117.70
26	BB	1553	A	N1-C6-N6	7.00	122.80	118.60
26	BB	1608	A	N9-C4-C5	7.00	108.60	105.80
26	BB	2613	U	N1-C2-N3	7.00	119.10	114.90
1	AA	1383	C	C2-N3-C4	7.00	123.40	119.90
26	BB	1985	C	N1-C2-O2	7.00	123.10	118.90
1	AA	51	A	C5'-C4'-O4'	6.99	117.49	109.10
1	AA	646	G	N1-C2-N2	-6.99	109.91	116.20
1	AA	1390	U	O4'-C1'-N1	6.99	113.79	108.20
7	AG	25	ARG	NE-CZ-NH2	-6.99	116.80	120.30
26	BB	499	U	C5'-C4'-O4'	6.99	117.49	109.10
26	BB	816	C	O4'-C1'-N1	6.99	113.80	108.20
26	BB	837	C	C1'-O4'-C4'	-6.99	104.31	109.90
26	BB	2368	C	C4-C5-C6	-6.99	113.90	117.40
26	BB	2555	U	C4-C5-C6	6.99	123.90	119.70
26	BB	2640	G	C2-N3-C4	6.99	115.40	111.90
1	AA	480	U	C4'-C3'-C2'	-6.99	95.61	102.60
26	BB	479	A	N7-C8-N9	6.99	117.30	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	960	A	N9-C4-C5	-6.99	103.00	105.80
26	BB	1753	G	C5'-C4'-C3'	-6.99	104.81	116.00
1	AA	350	G	C4'-C3'-C2'	-6.99	95.61	102.60
1	AA	1172	C	O4'-C1'-N1	6.99	113.79	108.20
1	AA	1323	G	C5-C6-N1	6.99	115.00	111.50
4	AD	34	U	N3-C2-O2	-6.99	117.31	122.20
4	AD	40	C	N1-C1'-C2'	-6.99	104.31	112.00
25	BA	104	A	N1-C6-N6	-6.99	114.41	118.60
26	BB	130	C	C6-N1-C2	-6.99	117.50	120.30
26	BB	482	A	N9-C4-C5	-6.99	103.00	105.80
26	BB	618	G	C5'-C4'-O4'	6.99	117.49	109.10
26	BB	1553	A	C5'-C4'-O4'	6.99	117.49	109.10
26	BB	1595	C	N3-C4-C5	-6.99	119.10	121.90
26	BB	1797	G	C3'-C2'-C1'	6.99	107.09	101.50
26	BB	2088	A	C4'-C3'-C2'	-6.99	95.61	102.60
26	BB	2347	C	N3-C2-O2	-6.99	117.01	121.90
26	BB	2520	C	C6-N1-C2	-6.99	117.50	120.30
26	BB	2562	U	C4-C5-C6	6.99	123.89	119.70
1	AA	876	C	N1-C2-O2	6.99	123.09	118.90
1	AA	1008	U	C5-C6-N1	-6.99	119.21	122.70
1	AA	1368	A	N1-C2-N3	6.99	132.79	129.30
2	AB	44	G	C2-N3-C4	6.99	115.39	111.90
4	AD	4	G	N3-C4-C5	-6.99	125.11	128.60
26	BB	599	A	C1'-O4'-C4'	-6.99	104.31	109.90
26	BB	639	U	C6-N1-C2	-6.99	116.81	121.00
26	BB	1136	G	N9-C1'-C2'	-6.99	104.31	112.00
26	BB	2343	U	P-O3'-C3'	6.99	128.09	119.70
1	AA	1468	A	C4-C5-N7	-6.99	107.21	110.70
26	BB	264	C	N1-C2-O2	6.99	123.09	118.90
26	BB	358	U	C5-C6-N1	6.99	126.19	122.70
26	BB	2392	A	C5'-C4'-O4'	6.99	117.48	109.10
1	AA	67	C	C6-N1-C2	-6.99	117.51	120.30
1	AA	320	A	N9-C4-C5	6.99	108.59	105.80
1	AA	981	U	N3-C4-O4	6.99	124.29	119.40
1	AA	1103	C	N3-C2-O2	-6.99	117.01	121.90
1	AA	1488	G	N1-C6-O6	-6.99	115.71	119.90
26	BB	170	U	N3-C2-O2	-6.99	117.31	122.20
26	BB	548	G	C4-C5-N7	6.99	113.59	110.80
26	BB	795	C	O4'-C1'-N1	6.99	113.79	108.20
26	BB	1260	A	C4-C5-N7	6.99	114.19	110.70
26	BB	2349	G	C6-C5-N7	-6.99	126.21	130.40
1	AA	200	G	C4-C5-C6	6.98	122.99	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	948	C	C5'-C4'-C3'	-6.98	104.83	116.00
1	AA	1278	G	N3-C4-N9	6.98	130.19	126.00
4	AD	54	G	N7-C8-N9	-6.98	109.61	113.10
26	BB	989	G	N3-C4-C5	-6.98	125.11	128.60
26	BB	1426	G	N3-C4-N9	-6.98	121.81	126.00
26	BB	1478	G	C8-N9-C4	-6.98	103.61	106.40
26	BB	2142	A	C8-N9-C4	6.98	108.59	105.80
26	BB	2751	G	N3-C4-N9	6.98	130.19	126.00
26	BB	2802	G	C6-N1-C2	-6.98	120.91	125.10
1	AA	87	C	C2-N1-C1'	-6.98	111.12	118.80
1	AA	517	G	O4'-C1'-N9	6.98	113.79	108.20
1	AA	553	A	O4'-C1'-N9	6.98	113.79	108.20
1	AA	556	C	N3-C2-O2	-6.98	117.01	121.90
1	AA	629	A	O5'-P-OP2	-6.98	99.42	105.70
1	AA	790	A	C6-C5-N7	6.98	137.19	132.30
26	BB	1055	G	C5'-C4'-O4'	6.98	117.48	109.10
26	BB	1230	A	C5'-C4'-O4'	6.98	117.48	109.10
26	BB	1343	G	P-O3'-C3'	6.98	128.08	119.70
26	BB	1387	A	N3-C4-C5	-6.98	121.91	126.80
26	BB	1687	G	N1-C6-O6	-6.98	115.71	119.90
26	BB	2453	A	C8-N9-C4	6.98	108.59	105.80
1	AA	292	G	C8-N9-C4	-6.98	103.61	106.40
1	AA	481	G	N3-C4-C5	-6.98	125.11	128.60
1	AA	874	G	C5'-C4'-O4'	6.98	117.48	109.10
25	BA	90	C	P-O3'-C3'	6.98	128.08	119.70
26	BB	630	G	O4'-C1'-N9	6.98	113.78	108.20
26	BB	1736	U	C4-C5-C6	6.98	123.89	119.70
26	BB	1925	C	C2-N3-C4	6.98	123.39	119.90
26	BB	2416	C	O4'-C1'-N1	6.98	113.78	108.20
1	AA	408	A	C4'-C3'-C2'	-6.98	95.62	102.60
1	AA	507	C	N1-C2-O2	6.98	123.09	118.90
26	BB	159	G	N1-C6-O6	-6.98	115.71	119.90
26	BB	932	U	C2-N1-C1'	6.98	126.08	117.70
1	AA	75	G	C5-N7-C8	-6.98	100.81	104.30
1	AA	1255	G	C8-N9-C4	-6.98	103.61	106.40
1	AA	1485	U	N1-C1'-C2'	-6.98	104.32	112.00
4	AD	58	A	N1-C6-N6	-6.98	114.41	118.60
4	AD	76	C	C1'-O4'-C4'	-6.98	104.32	109.90
25	BA	68	C	C5-C4-N4	-6.98	115.32	120.20
26	BB	805	G	N1-C2-N2	6.98	122.48	116.20
26	BB	1687	G	C4-C5-N7	6.98	113.59	110.80
1	AA	204	G	N1-C2-N3	-6.98	119.71	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	783	A	C5-N7-C8	6.98	107.39	103.90
26	BB	976	G	C8-N9-C4	-6.98	103.61	106.40
26	BB	1117	C	O4'-C1'-N1	6.98	113.78	108.20
26	BB	1711	A	C8-N9-C4	-6.98	103.01	105.80
26	BB	1885	A	C6-N1-C2	6.98	122.79	118.60
26	BB	2693	G	C6-C5-N7	-6.98	126.21	130.40
1	AA	189	A	P-O3'-C3'	6.97	128.07	119.70
1	AA	338	A	C5-N7-C8	-6.97	100.41	103.90
4	AD	23	G	N9-C4-C5	6.97	108.19	105.40
4	AD	48	U	C1'-O4'-C4'	-6.97	104.32	109.90
26	BB	347	A	N9-C4-C5	-6.97	103.01	105.80
26	BB	1258	U	C2-N3-C4	-6.97	122.81	127.00
26	BB	1502	A	C6-N1-C2	6.97	122.78	118.60
26	BB	2162	G	C5-C6-O6	-6.97	124.42	128.60
26	BB	2196	C	N1-C1'-C2'	-6.97	104.33	112.00
1	AA	110	C	C5'-C4'-O4'	6.97	117.47	109.10
1	AA	767	A	C1'-O4'-C4'	-6.97	104.32	109.90
1	AA	1193	G	N3-C4-N9	-6.97	121.82	126.00
1	AA	1224	U	C5-C6-N1	-6.97	119.21	122.70
2	AB	52	A	C4-C5-N7	6.97	114.19	110.70
4	AD	49	C	N3-C2-O2	-6.97	117.02	121.90
9	AI	122	ASP	CB-CG-OD2	-6.97	112.03	118.30
26	BB	508	A	C8-N9-C4	6.97	108.59	105.80
26	BB	787	C	N1-C2-N3	6.97	124.08	119.20
26	BB	1633	G	N3-C2-N2	-6.97	115.02	119.90
26	BB	1783	A	C2-N3-C4	6.97	114.09	110.60
26	BB	1861	G	N1-C2-N2	6.97	122.47	116.20
26	BB	2002	G	C5-C6-O6	-6.97	124.42	128.60
26	BB	2043	C	C3'-C2'-C1'	6.97	107.08	101.50
26	BB	2246	G	N3-C4-N9	6.97	130.18	126.00
26	BB	2413	G	O5'-C5'-C4'	-6.97	98.45	111.70
26	BB	1314	C	C6-N1-C2	-6.97	117.51	120.30
26	BB	1546	G	C4-C5-N7	-6.97	108.01	110.80
26	BB	1784	A	C4'-C3'-C2'	6.97	109.57	102.60
26	BB	2592	G	C6-C5-N7	-6.97	126.22	130.40
26	BB	2647	U	N3-C2-O2	-6.97	117.32	122.20
1	AA	1104	G	N1-C6-O6	6.97	124.08	119.90
1	AA	1201	A	C2'-C3'-O3'	6.97	124.85	113.70
1	AA	1245	C	P-O3'-C3'	6.97	128.06	119.70
26	BB	356	G	C5-C6-N1	6.97	114.98	111.50
26	BB	451	U	C6-N1-C2	-6.97	116.82	121.00
26	BB	1051	G	C6-N1-C2	6.97	129.28	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2803	G	C5'-C4'-O4'	6.97	117.46	109.10
26	BB	760	G	C8-N9-C4	-6.97	103.61	106.40
26	BB	2511	U	C4'-C3'-C2'	-6.97	95.63	102.60
26	BB	2824	C	O4'-C1'-N1	6.97	113.78	108.20
1	AA	187	G	C3'-C2'-C1'	6.97	107.07	101.50
1	AA	494	G	N3-C4-N9	6.97	130.18	126.00
25	BA	52	A	N1-C2-N3	-6.97	125.82	129.30
26	BB	596	U	N3-C2-O2	-6.97	117.32	122.20
26	BB	1360	G	C3'-C2'-C1'	-6.97	95.93	101.50
26	BB	2271	G	N7-C8-N9	6.97	116.58	113.10
1	AA	123	U	O4'-C1'-N1	6.96	113.77	108.20
1	AA	253	A	C1'-O4'-C4'	-6.96	104.33	109.90
1	AA	476	U	N1-C1'-C2'	-6.96	104.34	112.00
1	AA	603	U	O4'-C1'-N1	6.96	113.77	108.20
1	AA	771	G	N7-C8-N9	-6.96	109.62	113.10
1	AA	794	A	N7-C8-N9	6.96	117.28	113.80
1	AA	1408	A	O4'-C1'-N9	6.96	113.77	108.20
21	AU	50	TYR	CB-CG-CD1	6.96	125.18	121.00
25	BA	110	C	N3-C2-O2	-6.96	117.03	121.90
26	BB	638	G	C6-C5-N7	-6.96	126.22	130.40
26	BB	796	C	N1-C1'-C2'	-6.96	104.34	112.00
26	BB	964	C	C5-C6-N1	6.96	124.48	121.00
26	BB	1077	A	C2-N3-C4	6.96	114.08	110.60
26	BB	1627	G	N9-C4-C5	6.96	108.19	105.40
26	BB	1982	U	C2-N3-C4	-6.96	122.82	127.00
26	BB	2858	C	O4'-C4'-C3'	6.96	111.67	106.10
1	AA	968	A	O4'-C1'-N9	6.96	113.77	108.20
2	AB	27	C	C2-N3-C4	6.96	123.38	119.90
26	BB	2345	G	C5-N7-C8	-6.96	100.82	104.30
26	BB	2370	G	C3'-C2'-C1'	-6.96	95.93	101.50
56	B5	5	PHE	CB-CG-CD2	6.96	125.67	120.80
1	AA	285	C	N3-C4-N4	6.96	122.87	118.00
1	AA	941	G	C5'-C4'-C3'	-6.96	104.86	116.00
1	AA	1444	U	C5'-C4'-O4'	6.96	117.45	109.10
26	BB	484	C	C3'-C2'-C1'	6.96	107.07	101.50
26	BB	492	A	O4'-C4'-C3'	6.96	111.67	106.10
26	BB	1252	G	C3'-C2'-C1'	6.96	107.07	101.50
26	BB	1425	G	C2-N3-C4	6.96	115.38	111.90
26	BB	2697	G	C2-N3-C4	6.96	115.38	111.90
1	AA	1085	U	O4'-C4'-C3'	6.96	111.67	106.10
26	BB	514	A	P-O3'-C3'	6.96	128.05	119.70
26	BB	1276	A	N3-C4-C5	6.96	131.67	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1646	C	N3-C2-O2	-6.96	117.03	121.90
26	BB	2074	U	N1-C2-O2	6.96	127.67	122.80
26	BB	2674	G	C3'-C2'-C1'	-6.96	95.93	101.50
26	BB	2718	G	C6-C5-N7	-6.96	126.22	130.40
42	BR	52	ARG	NE-CZ-NH2	-6.96	116.82	120.30
3	AC	14	G	N3-C4-C5	-6.96	125.12	128.60
26	BB	757	G	N9-C1'-C2'	-6.96	104.35	112.00
26	BB	1475	G	O3'-P-O5'	-6.96	90.78	104.00
26	BB	1620	G	N3-C2-N2	-6.96	115.03	119.90
26	BB	1699	G	N3-C2-N2	-6.96	115.03	119.90
26	BB	1889	A	N1-C2-N3	-6.96	125.82	129.30
26	BB	2245	U	C6-N1-C2	-6.96	116.83	121.00
26	BB	2694	G	C6-N1-C2	-6.96	120.92	125.10
1	AA	120	A	C5-C6-N6	6.96	129.26	123.70
1	AA	198	G	C1'-O4'-C4'	-6.96	104.33	109.90
1	AA	391	G	N7-C8-N9	6.96	116.58	113.10
1	AA	913	A	C5-N7-C8	-6.96	100.42	103.90
1	AA	1340	A	N1-C2-N3	-6.96	125.82	129.30
1	AA	1522	U	C5-C6-N1	-6.96	119.22	122.70
25	BA	105	G	N1-C2-N2	6.96	122.46	116.20
26	BB	113	U	O4'-C1'-N1	6.96	113.77	108.20
26	BB	356	G	P-O3'-C3'	6.96	128.05	119.70
26	BB	618	G	C8-N9-C4	-6.96	103.62	106.40
26	BB	820	A	C5-N7-C8	6.96	107.38	103.90
26	BB	1639	C	N1-C2-O2	-6.96	114.73	118.90
26	BB	1823	G	N3-C4-C5	-6.96	125.12	128.60
26	BB	2640	G	N3-C4-C5	-6.96	125.12	128.60
26	BB	2869	G	C5'-C4'-O4'	6.96	117.45	109.10
1	AA	427	U	C4-C5-C6	6.96	123.87	119.70
1	AA	1381	U	C5-C6-N1	-6.96	119.22	122.70
26	BB	2789	C	N1-C2-O2	6.96	123.07	118.90
1	AA	853	C	N3-C4-C5	-6.95	119.12	121.90
1	AA	1018	G	O4'-C1'-N9	6.95	113.76	108.20
1	AA	1387	G	N1-C6-O6	6.95	124.07	119.90
2	AB	56	C	N3-C2-O2	-6.95	117.03	121.90
26	BB	733	G	C8-N9-C1'	6.95	136.04	127.00
26	BB	1382	G	C6-N1-C2	6.95	129.27	125.10
26	BB	1861	G	C5-N7-C8	-6.95	100.82	104.30
26	BB	2020	A	P-O3'-C3'	6.95	128.04	119.70
26	BB	2831	G	C5-C6-O6	-6.95	124.43	128.60
26	BB	2890	G	C8-N9-C4	6.95	109.18	106.40
1	AA	258	G	C8-N9-C4	-6.95	103.62	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	496	A	N7-C8-N9	6.95	117.28	113.80
1	AA	543	U	O4'-C1'-C2'	6.95	113.86	107.60
2	AB	52	A	C5-C6-N1	6.95	121.18	117.70
5	AE	115	ASP	CB-CG-OD1	-6.95	112.04	118.30
26	BB	984	A	C8-N9-C4	-6.95	103.02	105.80
26	BB	1296	G	C4-C5-C6	6.95	122.97	118.80
26	BB	2170	A	N7-C8-N9	6.95	117.28	113.80
26	BB	2570	G	N7-C8-N9	6.95	116.58	113.10
26	BB	2848	G	N7-C8-N9	6.95	116.58	113.10
1	AA	122	G	C6-C5-N7	-6.95	126.23	130.40
1	AA	152	A	C6-N1-C2	6.95	122.77	118.60
1	AA	1182	G	C5-N7-C8	-6.95	100.83	104.30
1	AA	1306	A	N9-C4-C5	6.95	108.58	105.80
26	BB	668	A	C5-C6-N6	-6.95	118.14	123.70
26	BB	874	G	N1-C6-O6	-6.95	115.73	119.90
1	AA	698	G	C6-C5-N7	-6.95	126.23	130.40
26	BB	941	A	O4'-C1'-N9	6.95	113.76	108.20
1	AA	1458	G	C2-N3-C4	6.95	115.37	111.90
26	BB	126	A	C8-N9-C4	-6.95	103.02	105.80
26	BB	976	G	N1-C2-N2	6.95	122.45	116.20
26	BB	1057	A	C4-C5-N7	6.95	114.17	110.70
26	BB	1393	A	N9-C4-C5	6.95	108.58	105.80
26	BB	1407	G	C5-N7-C8	6.95	107.77	104.30
26	BB	1663	G	C5-C6-O6	-6.95	124.43	128.60
26	BB	1765	U	P-O3'-C3'	6.95	128.03	119.70
26	BB	1776	G	C5-N7-C8	6.95	107.77	104.30
26	BB	2762	C	N3-C2-O2	-6.95	117.04	121.90
1	AA	350	G	C3'-C2'-C1'	6.94	107.06	101.50
1	AA	1169	A	N9-C4-C5	6.94	108.58	105.80
10	AJ	84	TYR	CB-CG-CD1	6.94	125.17	121.00
26	BB	113	U	N3-C4-C5	-6.94	110.43	114.60
26	BB	277	G	C5-C6-O6	-6.94	124.43	128.60
26	BB	1054	A	C4-C5-C6	6.94	120.47	117.00
26	BB	1423	G	C8-N9-C1'	6.94	136.03	127.00
26	BB	2349	G	C2-N3-C4	6.94	115.37	111.90
26	BB	2802	G	C5'-C4'-O4'	6.94	117.43	109.10
26	BB	2823	A	C5'-C4'-O4'	6.94	117.43	109.10
1	AA	1	A	C5'-C4'-O4'	6.94	117.43	109.10
1	AA	225	C	N1-C1'-C2'	-6.94	104.36	112.00
1	AA	973	G	P-O3'-C3'	6.94	128.03	119.70
1	AA	1052	U	N3-C2-O2	-6.94	117.34	122.20
1	AA	1253	G	C6-N1-C2	-6.94	120.93	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	AL	69	GLY	C-N-CA	6.94	136.88	122.30
26	BB	768	G	N7-C8-N9	6.94	116.57	113.10
26	BB	926	G	N3-C4-N9	6.94	130.16	126.00
26	BB	940	G	O4'-C1'-C2'	6.94	113.85	107.60
26	BB	1478	G	N3-C4-C5	-6.94	125.13	128.60
26	BB	1497	U	P-O3'-C3'	6.94	128.03	119.70
26	BB	2328	A	N1-C2-N3	-6.94	125.83	129.30
1	AA	187	G	N1-C2-N2	6.94	122.45	116.20
1	AA	1283	U	C5-C4-O4	-6.94	121.73	125.90
1	AA	1350	A	C8-N9-C4	-6.94	103.02	105.80
2	AB	30	G	O4'-C1'-N9	6.94	113.75	108.20
26	BB	432	A	C5'-C4'-O4'	6.94	117.43	109.10
26	BB	742	A	C2-N3-C4	6.94	114.07	110.60
26	BB	1212	G	C6-C5-N7	-6.94	126.24	130.40
26	BB	2005	A	N1-C6-N6	-6.94	114.44	118.60
26	BB	2176	A	C5-C6-N1	6.94	121.17	117.70
55	B4	38	PHE	CB-CG-CD2	-6.94	115.94	120.80
26	BB	2081	U	P-O3'-C3'	6.94	128.03	119.70
56	B5	33	ARG	NE-CZ-NH2	6.94	123.77	120.30
1	AA	14	U	C5-C6-N1	-6.94	119.23	122.70
1	AA	328	C	P-O3'-C3'	6.94	128.03	119.70
1	AA	358	U	C5-C6-N1	-6.94	119.23	122.70
1	AA	869	G	N9-C4-C5	6.94	108.17	105.40
1	AA	1221	G	C1'-O4'-C4'	6.94	115.45	109.90
1	AA	1448	C	C4'-C3'-C2'	-6.94	95.66	102.60
26	BB	218	A	O4'-C1'-C2'	-6.94	98.86	105.80
26	BB	838	C	C4'-C3'-C2'	-6.94	95.66	102.60
26	BB	856	G	O4'-C1'-N9	6.94	113.75	108.20
26	BB	918	A	O4'-C1'-C2'	6.94	113.84	107.60
26	BB	1513	U	C6-N1-C2	-6.94	116.84	121.00
26	BB	1715	G	N3-C2-N2	6.94	124.76	119.90
1	AA	67	C	O4'-C1'-N1	6.94	113.75	108.20
1	AA	280	C	N1-C2-O2	6.94	123.06	118.90
1	AA	303	A	C5-C6-N6	-6.94	118.15	123.70
1	AA	834	U	N1-C2-N3	6.94	119.06	114.90
26	BB	614	A	C5-N7-C8	6.94	107.37	103.90
26	BB	921	C	N1-C1'-C2'	-6.94	104.37	112.00
26	BB	1686	C	N3-C4-C5	6.94	124.67	121.90
26	BB	1857	G	C4-C5-N7	-6.94	108.03	110.80
26	BB	2216	G	N1-C6-O6	-6.94	115.74	119.90
26	BB	2486	C	C5'-C4'-O4'	6.94	117.42	109.10
26	BB	2543	G	C8-N9-C4	-6.94	103.63	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	278	G	N3-C4-C5	-6.93	125.13	128.60
1	AA	339	C	C1'-O4'-C4'	-6.93	104.35	109.90
3	AC	13	A	C5'-C4'-O4'	-6.93	100.78	109.10
12	AL	79	ARG	NE-CZ-NH2	-6.93	116.83	120.30
26	BB	306	U	N3-C4-C5	-6.93	110.44	114.60
26	BB	1438	U	C2-N3-C4	-6.93	122.84	127.00
26	BB	2741	A	C4-C5-C6	-6.93	113.53	117.00
1	AA	86	G	O4'-C1'-N9	6.93	113.75	108.20
1	AA	406	G	N3-C4-N9	6.93	130.16	126.00
1	AA	566	G	N3-C2-N2	6.93	124.75	119.90
1	AA	964	A	C5'-C4'-O4'	6.93	117.42	109.10
1	AA	1340	A	C5-C6-N6	6.93	129.25	123.70
1	AA	1410	A	P-O3'-C3'	6.93	128.02	119.70
3	AC	33	A	N9-C4-C5	6.93	108.57	105.80
26	BB	494	G	N7-C8-N9	-6.93	109.63	113.10
26	BB	1121	C	C6-N1-C2	-6.93	117.53	120.30
26	BB	1969	A	O4'-C1'-N9	-6.93	102.66	108.20
26	BB	2002	G	O4'-C1'-N9	6.93	113.75	108.20
26	BB	2230	G	O5'-P-OP2	-6.93	99.46	105.70
1	AA	50	A	C4-C5-N7	6.93	114.17	110.70
1	AA	51	A	C5-C6-N1	6.93	121.17	117.70
1	AA	505	G	N9-C4-C5	6.93	108.17	105.40
1	AA	568	G	C5-C6-N1	6.93	114.97	111.50
1	AA	1511	G	N3-C2-N2	6.93	124.75	119.90
26	BB	361	G	C6-N1-C2	6.93	129.26	125.10
26	BB	1157	G	C3'-C2'-C1'	6.93	107.04	101.50
43	BS	50	ARG	NE-CZ-NH2	-6.93	116.84	120.30
1	AA	31	G	N1-C2-N3	-6.93	119.74	123.90
1	AA	914	A	C5-C6-N1	6.93	121.16	117.70
26	BB	2291	U	N3-C4-C5	-6.93	110.44	114.60
1	AA	1179	A	C5-N7-C8	6.93	107.36	103.90
1	AA	1328	C	O4'-C1'-N1	6.93	113.74	108.20
1	AA	1392	G	O4'-C1'-N9	6.93	113.74	108.20
26	BB	178	G	C6-N1-C2	-6.93	120.94	125.10
26	BB	282	A	N1-C2-N3	-6.93	125.84	129.30
26	BB	761	A	C5-C6-N1	6.93	121.16	117.70
26	BB	1133	A	C4'-C3'-C2'	6.93	109.53	102.60
26	BB	1215	G	C1'-O4'-C4'	6.93	115.44	109.90
26	BB	1751	U	C6-N1-C2	6.93	125.16	121.00
26	BB	2542	A	C1'-O4'-C4'	-6.93	104.36	109.90
1	AA	24	U	C1'-O4'-C4'	6.92	115.44	109.90
1	AA	736	C	N3-C4-C5	6.92	124.67	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1165	U	C6-N1-C2	6.92	125.16	121.00
1	AA	1176	A	O4'-C1'-N9	6.92	113.74	108.20
1	AA	1413	A	C6-N1-C2	6.92	122.75	118.60
26	BB	247	G	N3-C2-N2	6.92	124.75	119.90
26	BB	868	U	N3-C4-O4	6.92	124.25	119.40
26	BB	1034	G	N9-C1'-C2'	-6.92	104.38	112.00
26	BB	1295	C	C5'-C4'-C3'	-6.92	104.92	116.00
26	BB	1619	G	C8-N9-C1'	6.92	136.00	127.00
40	BP	45	ARG	NE-CZ-NH1	-6.92	116.84	120.30
1	AA	1309	G	C8-N9-C4	-6.92	103.63	106.40
26	BB	854	C	N3-C4-N4	6.92	122.85	118.00
26	BB	2285	C	N3-C4-N4	6.92	122.85	118.00
1	AA	57	G	C3'-C2'-C1'	-6.92	95.96	101.50
1	AA	649	A	P-O3'-C3'	6.92	128.01	119.70
1	AA	909	A	N1-C6-N6	6.92	122.75	118.60
26	BB	1908	C	C5-C6-N1	6.92	124.46	121.00
26	BB	2012	G	N3-C4-C5	-6.92	125.14	128.60
1	AA	338	A	C5'-C4'-O4'	6.92	117.40	109.10
1	AA	376	G	C8-N9-C4	-6.92	103.63	106.40
1	AA	396	C	C5-C6-N1	-6.92	117.54	121.00
1	AA	598	U	C5-C6-N1	-6.92	119.24	122.70
1	AA	1360	A	C4-C5-N7	-6.92	107.24	110.70
3	AC	21	U	N3-C4-C5	-6.92	110.45	114.60
26	BB	296	U	N1-C2-N3	6.92	119.05	114.90
26	BB	766	U	O4'-C1'-N1	6.92	113.73	108.20
26	BB	2703	C	C6-N1-C2	6.92	123.07	120.30
1	AA	1130	A	C4-C5-N7	-6.92	107.24	110.70
1	AA	1217	C	N3-C4-N4	6.92	122.84	118.00
1	AA	1284	C	C6-N1-C2	-6.92	117.53	120.30
1	AA	1303	C	C4-C5-C6	6.92	120.86	117.40
25	BA	100	G	C5-C6-O6	6.92	132.75	128.60
26	BB	261	G	C4-C5-N7	-6.92	108.03	110.80
26	BB	449	A	C1'-O4'-C4'	6.92	115.43	109.90
26	BB	1002	G	C8-N9-C4	-6.92	103.63	106.40
1	AA	859	G	N3-C4-C5	6.92	132.06	128.60
1	AA	1104	G	C5-N7-C8	6.92	107.76	104.30
1	AA	1249	C	C6-N1-C1'	6.92	129.10	120.80
12	AL	5	TYR	CB-CG-CD2	6.92	125.15	121.00
15	AO	13	ARG	NE-CZ-NH2	-6.92	116.84	120.30
26	BB	149	A	N7-C8-N9	6.92	117.26	113.80
26	BB	1268	A	C5-C6-N1	6.92	121.16	117.70
26	BB	1496	A	C8-N9-C4	6.92	108.57	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1803	A	C4'-C3'-C2'	-6.92	95.69	102.60
26	BB	2508	G	N1-C2-N2	-6.92	109.98	116.20
1	AA	21	G	N3-C4-N9	6.91	130.15	126.00
1	AA	665	A	N7-C8-N9	6.91	117.26	113.80
1	AA	700	G	N3-C4-N9	6.91	130.15	126.00
1	AA	841	C	C5-C6-N1	6.91	124.46	121.00
1	AA	1053	G	C8-N9-C1'	6.91	135.99	127.00
12	AL	89	TYR	CB-CG-CD1	6.91	125.15	121.00
26	BB	169	G	N7-C8-N9	6.91	116.56	113.10
26	BB	640	C	N3-C2-O2	6.91	126.74	121.90
26	BB	710	U	N3-C2-O2	-6.91	117.36	122.20
26	BB	1006	C	C5'-C4'-O4'	6.91	117.40	109.10
26	BB	1565	C	N3-C2-O2	-6.91	117.06	121.90
26	BB	1744	A	C5-N7-C8	6.91	107.36	103.90
26	BB	1815	A	N7-C8-N9	6.91	117.26	113.80
26	BB	2295	C	C5-C6-N1	-6.91	117.54	121.00
26	BB	2438	U	N3-C4-C5	-6.91	110.45	114.60
26	BB	2519	U	C4'-C3'-C2'	-6.91	95.69	102.60
3	AC	55	A	N9-C4-C5	6.91	108.56	105.80
26	BB	1624	U	N3-C4-O4	6.91	124.24	119.40
26	BB	2426	A	O4'-C1'-C2'	-6.91	98.89	105.80
1	AA	53	A	C1'-O4'-C4'	-6.91	104.37	109.90
1	AA	485	U	C6-N1-C2	-6.91	116.85	121.00
25	BA	15	A	C3'-C2'-C1'	6.91	107.03	101.50
25	BA	53	A	N1-C6-N6	-6.91	114.45	118.60
26	BB	397	U	C2-N3-C4	-6.91	122.85	127.00
26	BB	569	U	C4-C5-C6	6.91	123.85	119.70
26	BB	1374	G	C4-C5-C6	-6.91	114.65	118.80
26	BB	1894	C	C6-N1-C2	-6.91	117.54	120.30
26	BB	2048	G	O4'-C1'-N9	-6.91	102.67	108.20
26	BB	2148	G	C4-C5-N7	6.91	113.56	110.80
26	BB	2558	C	N1-C2-O2	6.91	123.05	118.90
26	BB	2663	G	C5-C6-N1	6.91	114.95	111.50
26	BB	2782	G	N7-C8-N9	6.91	116.56	113.10
26	BB	2864	G	O4'-C1'-N9	6.91	113.73	108.20
26	BB	2876	G	C8-N9-C4	-6.91	103.64	106.40
1	AA	472	U	C5-C4-O4	6.91	130.04	125.90
1	AA	529	G	C5-C6-N1	-6.91	108.05	111.50
1	AA	542	G	C4'-C3'-C2'	-6.91	95.69	102.60
1	AA	556	C	O4'-C1'-N1	6.91	113.73	108.20
1	AA	697	U	N1-C1'-C2'	-6.91	104.40	112.00
1	AA	771	G	N9-C4-C5	-6.91	102.64	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1006	G	C5-C6-N1	6.91	114.95	111.50
1	AA	1378	C	C6-N1-C2	-6.91	117.54	120.30
26	BB	352	A	C8-N9-C4	-6.91	103.04	105.80
26	BB	1264	A	C5-C6-N1	6.91	121.16	117.70
26	BB	1824	G	C1'-O4'-C4'	6.91	115.43	109.90
26	BB	2043	C	N1-C2-N3	-6.91	114.36	119.20
26	BB	2417	C	O4'-C1'-N1	6.91	113.73	108.20
26	BB	2431	U	C5-C6-N1	6.91	126.15	122.70
26	BB	2515	C	N1-C2-O2	6.91	123.05	118.90
1	AA	364	A	C4-C5-C6	-6.91	113.55	117.00
1	AA	1253	G	P-O3'-C3'	6.91	127.99	119.70
26	BB	214	G	C5'-C4'-O4'	6.91	117.39	109.10
26	BB	1154	G	C5-C6-O6	6.91	132.74	128.60
26	BB	2067	G	O4'-C1'-N9	6.91	113.73	108.20
1	AA	341	C	C6-N1-C2	-6.91	117.54	120.30
1	AA	559	A	C2-N3-C4	-6.91	107.15	110.60
1	AA	765	G	C1'-O4'-C4'	-6.91	104.38	109.90
11	AK	90	GLU	OE1-CD-OE2	6.91	131.59	123.30
15	AO	85	ARG	NE-CZ-NH1	6.91	123.75	120.30
26	BB	2	G	N3-C4-C5	-6.91	125.15	128.60
26	BB	180	G	N7-C8-N9	6.91	116.55	113.10
26	BB	221	A	C6-C5-N7	6.91	137.13	132.30
26	BB	1024	G	C2-N3-C4	6.91	115.35	111.90
26	BB	1050	A	C5-N7-C8	-6.91	100.45	103.90
26	BB	1913	A	N1-C2-N3	6.91	132.75	129.30
26	BB	2227	A	C5-C6-N6	-6.91	118.17	123.70
26	BB	2282	G	N1-C2-N2	6.91	122.41	116.20
26	BB	2467	C	O4'-C1'-N1	6.91	113.72	108.20
1	AA	366	A	O4'-C1'-C2'	-6.90	98.90	105.80
26	BB	905	A	C8-N9-C4	6.90	108.56	105.80
26	BB	1516	G	C8-N9-C1'	6.90	135.97	127.00
52	B1	15	ARG	NE-CZ-NH2	6.90	123.75	120.30
1	AA	107	G	C6-N1-C2	-6.90	120.96	125.10
1	AA	459	A	C4-C5-N7	6.90	114.15	110.70
1	AA	579	A	C6-C5-N7	-6.90	127.47	132.30
1	AA	1124	G	C2-N3-C4	6.90	115.35	111.90
1	AA	1352	C	N3-C4-C5	-6.90	119.14	121.90
9	AI	45	ARG	NE-CZ-NH1	6.90	123.75	120.30
26	BB	869	G	N1-C2-N2	6.90	122.41	116.20
26	BB	1379	U	C6-N1-C2	6.90	125.14	121.00
26	BB	1626	A	O4'-C1'-N9	6.90	113.72	108.20
26	BB	2825	G	C6-C5-N7	-6.90	126.26	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	137	U	C4-C5-C6	6.90	123.84	119.70
1	AA	476	U	N3-C4-O4	6.90	124.23	119.40
1	AA	862	C	C1'-O4'-C4'	-6.90	104.38	109.90
2	AB	35	C	N3-C2-O2	-6.90	117.07	121.90
4	AD	2	G	N3-C2-N2	6.90	124.73	119.90
26	BB	891	G	C3'-C2'-C1'	-6.90	95.98	101.50
26	BB	1003	G	C5-C6-N1	6.90	114.95	111.50
26	BB	1589	U	N1-C2-N3	6.90	119.04	114.90
26	BB	1685	C	N3-C2-O2	-6.90	117.07	121.90
26	BB	2277	G	N7-C8-N9	6.90	116.55	113.10
26	BB	2812	G	N1-C6-O6	-6.90	115.76	119.90
1	AA	713	G	C8-N9-C4	-6.90	103.64	106.40
1	AA	1182	G	C6-C5-N7	-6.90	126.26	130.40
1	AA	1257	A	C5-C6-N1	6.90	121.15	117.70
2	AB	34	C	C5-C6-N1	-6.90	117.55	121.00
26	BB	99	U	O4'-C4'-C3'	6.90	111.62	106.10
26	BB	1349	C	C6-N1-C2	-6.90	117.54	120.30
26	BB	1655	A	C4-C5-N7	6.90	114.15	110.70
26	BB	1662	U	N1-C1'-C2'	-6.90	104.41	112.00
1	AA	558	G	C6-C5-N7	6.90	134.54	130.40
1	AA	1487	G	O4'-C1'-N9	6.90	113.72	108.20
11	AK	113	ARG	NH1-CZ-NH2	-6.90	111.81	119.40
26	BB	582	A	C1'-O4'-C4'	6.90	115.42	109.90
26	BB	1127	A	C5-C6-N1	6.90	121.15	117.70
26	BB	1159	U	N3-C4-C5	6.90	118.74	114.60
26	BB	1206	G	N3-C4-C5	-6.90	125.15	128.60
26	BB	1251	C	C2-N3-C4	-6.90	116.45	119.90
26	BB	1322	A	C4-C5-C6	-6.90	113.55	117.00
26	BB	904	G	N7-C8-N9	6.90	116.55	113.10
26	BB	1364	G	C2-N3-C4	-6.90	108.45	111.90
26	BB	1772	A	N9-C1'-C2'	-6.90	104.42	112.00
26	BB	2502	G	N9-C4-C5	6.90	108.16	105.40
1	AA	803	G	C5-C6-O6	-6.89	124.46	128.60
1	AA	846	G	N9-C4-C5	6.89	108.16	105.40
1	AA	923	A	N7-C8-N9	-6.89	110.35	113.80
1	AA	1144	G	N7-C8-N9	-6.89	109.65	113.10
2	AB	5	G	N3-C4-C5	-6.89	125.15	128.60
4	AD	60	A	C4-C5-C6	-6.89	113.55	117.00
26	BB	88	G	C3'-C2'-C1'	-6.89	95.98	101.50
26	BB	372	G	C6-C5-N7	-6.89	126.26	130.40
26	BB	950	G	C3'-C2'-C1'	-6.89	95.98	101.50
26	BB	1032	A	C5-C6-N6	-6.89	118.19	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1069	A	C1'-O4'-C4'	-6.89	104.39	109.90
26	BB	1142	A	O4'-C1'-N9	6.89	113.72	108.20
26	BB	1272	A	C6-N1-C2	6.89	122.74	118.60
26	BB	1283	G	C5-C6-O6	-6.89	124.46	128.60
26	BB	1569	A	N1-C2-N3	6.89	132.75	129.30
26	BB	1594	U	N1-C1'-C2'	-6.89	104.42	112.00
1	AA	941	G	C3'-C2'-C1'	6.89	107.02	101.50
1	AA	1109	C	O4'-C1'-N1	6.89	113.71	108.20
26	BB	22	C	C4-C5-C6	6.89	120.85	117.40
26	BB	23	G	C3'-C2'-C1'	6.89	107.01	101.50
26	BB	474	G	C6-N1-C2	-6.89	120.97	125.10
26	BB	778	G	C5-C6-N1	6.89	114.95	111.50
26	BB	1550	C	C5-C4-N4	-6.89	115.38	120.20
26	BB	1783	A	C5-C6-N1	6.89	121.15	117.70
26	BB	1984	G	N7-C8-N9	-6.89	109.65	113.10
26	BB	2108	A	C8-N9-C4	-6.89	103.04	105.80
26	BB	2395	C	C5-C4-N4	-6.89	115.38	120.20
26	BB	2426	A	C5-C6-N1	-6.89	114.25	117.70
26	BB	2496	C	C3'-C2'-C1'	6.89	107.01	101.50
1	AA	256	U	C5-C6-N1	-6.89	119.25	122.70
1	AA	1188	A	N9-C4-C5	6.89	108.56	105.80
26	BB	1218	G	N9-C4-C5	6.89	108.16	105.40
26	BB	1504	A	N9-C4-C5	-6.89	103.04	105.80
26	BB	1513	U	C5-C4-O4	-6.89	121.77	125.90
1	AA	355	C	N1-C1'-C2'	-6.89	104.42	112.00
1	AA	567	G	N9-C4-C5	6.89	108.16	105.40
1	AA	1035	A	O4'-C1'-N9	6.89	113.71	108.20
1	AA	1337	G	O4'-C1'-N9	6.89	113.71	108.20
25	BA	41	G	C2-N3-C4	6.89	115.34	111.90
25	BA	74	U	O4'-C1'-N1	6.89	113.71	108.20
26	BB	205	G	C5-C6-O6	6.89	132.73	128.60
26	BB	825	A	C8-N9-C4	-6.89	103.04	105.80
26	BB	974	G	C6-C5-N7	-6.89	126.27	130.40
26	BB	2159	G	N3-C4-C5	-6.89	125.16	128.60
26	BB	2355	G	C5'-C4'-O4'	6.89	117.37	109.10
1	AA	1005	A	N9-C4-C5	6.89	108.56	105.80
1	AA	1167	A	C5-N7-C8	-6.89	100.46	103.90
1	AA	1170	A	C8-N9-C4	-6.89	103.05	105.80
26	BB	248	G	C5'-C4'-O4'	-6.89	100.83	109.10
26	BB	1070	A	N7-C8-N9	-6.89	110.36	113.80
26	BB	1473	G	N3-C4-C5	-6.89	125.16	128.60
1	AA	137	U	C5-C6-N1	-6.89	119.26	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	739	A	C5-N7-C8	-6.89	100.46	103.90
26	BB	1162	G	N3-C4-C5	-6.89	125.16	128.60
26	BB	1690	A	C5-N7-C8	-6.89	100.46	103.90
47	BW	85	ARG	NE-CZ-NH1	6.89	123.74	120.30
1	AA	131	A	O4'-C4'-C3'	6.88	111.61	106.10
1	AA	289	G	C4-C5-C6	6.88	122.93	118.80
1	AA	340	U	O4'-C1'-N1	6.88	113.71	108.20
1	AA	673	A	C8-N9-C4	-6.88	103.05	105.80
1	AA	934	C	N3-C4-C5	-6.88	119.15	121.90
1	AA	1007	U	C5-C4-O4	-6.88	121.77	125.90
1	AA	1219	A	N1-C2-N3	-6.88	125.86	129.30
13	AM	50	THR	CA-CB-CG2	6.88	122.04	112.40
26	BB	37	C	N3-C4-C5	-6.88	119.15	121.90
26	BB	1230	A	O4'-C1'-N9	6.88	113.71	108.20
26	BB	2082	A	C4-C5-N7	6.88	114.14	110.70
1	AA	133	U	N1-C2-N3	6.88	119.03	114.90
26	BB	1974	C	C3'-C2'-C1'	6.88	107.01	101.50
26	BB	2729	G	N9-C4-C5	6.88	108.15	105.40
26	BB	2856	A	C5-N7-C8	-6.88	100.46	103.90
1	AA	50	A	P-O3'-C3'	6.88	127.96	119.70
1	AA	173	U	C5-C6-N1	-6.88	119.26	122.70
1	AA	1450	U	C4-C5-C6	6.88	123.83	119.70
26	BB	49	A	C4-C5-C6	6.88	120.44	117.00
26	BB	412	A	O4'-C4'-C3'	-6.88	97.12	104.00
26	BB	549	G	N3-C4-C5	-6.88	125.16	128.60
26	BB	620	G	C6-N1-C2	-6.88	120.97	125.10
26	BB	1344	U	N3-C2-O2	-6.88	117.38	122.20
26	BB	1514	G	N3-C4-C5	-6.88	125.16	128.60
1	AA	1206	G	N1-C2-N2	-6.88	110.01	116.20
1	AA	1249	C	C3'-C2'-C1'	6.88	107.00	101.50
25	BA	92	C	O4'-C1'-N1	6.88	113.70	108.20
26	BB	357	C	C6-N1-C2	6.88	123.05	120.30
26	BB	1265	A	C6-N1-C2	-6.88	114.47	118.60
1	AA	1384	C	N1-C2-O2	6.88	123.03	118.90
26	BB	21	A	C2-N3-C4	6.88	114.04	110.60
26	BB	2357	G	C4'-C3'-C2'	-6.88	95.72	102.60
26	BB	2898	U	C5-C4-O4	-6.88	121.77	125.90
1	AA	1110	A	N1-C6-N6	-6.88	114.47	118.60
1	AA	1319	A	C5'-C4'-C3'	-6.88	105.00	116.00
1	AA	1325	C	N3-C4-N4	6.88	122.81	118.00
2	AB	1	A	C5-C6-N6	6.88	129.20	123.70
4	AD	50	G	C5-C6-O6	6.88	132.73	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	177	G	C5-N7-C8	6.88	107.74	104.30
26	BB	252	G	C4-C5-C6	-6.88	114.67	118.80
26	BB	328	U	C1'-O4'-C4'	6.88	115.40	109.90
26	BB	1097	U	O3'-P-O5'	6.88	117.06	104.00
26	BB	1216	G	C5-C6-O6	6.88	132.72	128.60
26	BB	1392	A	C6-N1-C2	-6.88	114.47	118.60
26	BB	1826	G	C5'-C4'-C3'	-6.88	105.00	116.00
26	BB	2601	C	C4-C5-C6	6.88	120.84	117.40
37	BM	108	ARG	NE-CZ-NH1	6.88	123.74	120.30
1	AA	273	U	C2-N3-C4	-6.88	122.88	127.00
1	AA	671	G	N9-C4-C5	6.88	108.15	105.40
26	BB	47	C	C5-C4-N4	-6.88	115.39	120.20
26	BB	1693	U	C3'-C2'-C1'	6.88	107.00	101.50
26	BB	2839	G	N1-C2-N3	-6.88	119.78	123.90
1	AA	404	G	C4-C5-C6	6.87	122.92	118.80
1	AA	442	G	C5-C6-O6	-6.87	124.47	128.60
1	AA	847	G	C1'-O4'-C4'	-6.87	104.40	109.90
2	AB	72	U	C5-C6-N1	-6.87	119.26	122.70
26	BB	278	A	N1-C6-N6	-6.87	114.47	118.60
26	BB	1423	G	C4'-C3'-C2'	-6.87	95.73	102.60
26	BB	1438	U	C4'-C3'-C2'	-6.87	95.73	102.60
26	BB	1633	G	C5-N7-C8	-6.87	100.86	104.30
26	BB	1696	G	N3-C4-N9	6.87	130.12	126.00
26	BB	1766	G	C4-C5-N7	-6.87	108.05	110.80
26	BB	2110	G	C6-C5-N7	6.87	134.52	130.40
1	AA	5	U	C5-C6-N1	-6.87	119.26	122.70
1	AA	63	C	C1'-O4'-C4'	-6.87	104.40	109.90
1	AA	1119	C	O4'-C1'-N1	6.87	113.70	108.20
26	BB	850	U	O5'-P-OP1	-6.87	99.52	105.70
26	BB	1133	A	C4-C5-C6	6.87	120.44	117.00
26	BB	1994	C	O4'-C1'-N1	6.87	113.70	108.20
26	BB	2468	A	O4'-C4'-C3'	6.87	111.60	106.10
26	BB	2692	G	C5'-C4'-O4'	6.87	117.34	109.10
1	AA	825	A	C5-C6-N1	6.87	121.14	117.70
1	AA	1493	A	N7-C8-N9	6.87	117.23	113.80
26	BB	2663	G	N1-C2-N2	6.87	122.38	116.20
1	AA	406	G	C8-N9-C4	-6.87	103.65	106.40
1	AA	1040	U	N1-C2-O2	-6.87	117.99	122.80
25	BA	65	U	N3-C2-O2	-6.87	117.39	122.20
26	BB	1996	C	C6-N1-C2	-6.87	117.55	120.30
36	BL	15	TRP	CD1-NE1-CE2	6.87	115.18	109.00
1	AA	361	G	N3-C4-C5	-6.87	125.17	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2137	U	N1-C2-N3	6.87	119.02	114.90
26	BB	2661	G	N3-C4-C5	-6.87	125.17	128.60
26	BB	2850	A	C5-C6-N6	-6.87	118.21	123.70
1	AA	42	G	C5-N7-C8	-6.87	100.87	104.30
1	AA	645	G	N3-C4-N9	6.87	130.12	126.00
1	AA	1175	G	O4'-C1'-N9	6.87	113.69	108.20
26	BB	1591	A	N3-C4-C5	-6.87	122.00	126.80
26	BB	1987	A	C6-C5-N7	-6.87	127.50	132.30
26	BB	2239	G	N3-C2-N2	6.87	124.71	119.90
26	BB	2425	A	C8-N9-C4	-6.87	103.05	105.80
50	BZ	17	ARG	NE-CZ-NH2	6.87	123.73	120.30
1	AA	536	C	C4'-C3'-C2'	-6.86	95.74	102.60
1	AA	752	G	C8-N9-C4	-6.86	103.66	106.40
1	AA	1322	C	N1-C2-O2	6.86	123.02	118.90
25	BA	114	C	C6-N1-C2	-6.86	117.56	120.30
26	BB	458	G	C4-C5-N7	-6.86	108.05	110.80
26	BB	723	C	N3-C2-O2	-6.86	117.10	121.90
26	BB	1542	U	C2-N3-C4	-6.86	122.88	127.00
26	BB	2712	C	N3-C2-O2	-6.86	117.10	121.90
31	BG	98	PHE	CB-CG-CD2	-6.86	116.00	120.80
1	AA	1532	U	N3-C2-O2	-6.86	117.40	122.20
2	AB	67	G	N3-C4-N9	6.86	130.12	126.00
4	AD	30	G	C5-N7-C8	6.86	107.73	104.30
4	AD	53	G	C8-N9-C4	-6.86	103.66	106.40
26	BB	833	A	C8-N9-C4	-6.86	103.06	105.80
26	BB	2813	A	C5'-C4'-O4'	6.86	117.33	109.10
26	BB	2857	G	C8-N9-C4	-6.86	103.66	106.40
51	B0	7	ARG	NE-CZ-NH1	-6.86	116.87	120.30
1	AA	26	A	C4'-C3'-C2'	-6.86	95.74	102.60
1	AA	350	G	C4-C5-C6	6.86	122.92	118.80
1	AA	831	A	O4'-C1'-N9	6.86	113.69	108.20
26	BB	831	G	C6-C5-N7	-6.86	126.28	130.40
26	BB	2880	C	C4-C5-C6	-6.86	113.97	117.40
1	AA	104	G	O4'-C1'-N9	6.86	113.69	108.20
1	AA	207	C	C1'-O4'-C4'	6.86	115.39	109.90
1	AA	448	A	N7-C8-N9	6.86	117.23	113.80
1	AA	1403	C	P-O3'-C3'	6.86	127.93	119.70
26	BB	1104	C	O4'-C1'-N1	6.86	113.69	108.20
26	BB	1210	G	N9-C4-C5	6.86	108.14	105.40
26	BB	1515	A	C1'-O4'-C4'	-6.86	104.41	109.90
26	BB	1558	C	O4'-C1'-N1	6.86	113.69	108.20
26	BB	1959	G	C8-N9-C4	-6.86	103.66	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	BW	54	PRO	N-CD-CG	6.86	113.49	103.20
1	AA	333	U	C5-C4-O4	-6.86	121.79	125.90
1	AA	777	A	N3-C4-C5	-6.86	122.00	126.80
26	BB	57	C	C2-N3-C4	6.86	123.33	119.90
26	BB	325	G	N9-C4-C5	6.86	108.14	105.40
26	BB	790	U	P-O3'-C3'	6.86	127.93	119.70
26	BB	1152	C	N1-C2-N3	6.86	124.00	119.20
26	BB	1171	G	C6-C5-N7	6.86	134.51	130.40
26	BB	1376	C	C5'-C4'-O4'	-6.86	100.87	109.10
26	BB	1766	G	N9-C4-C5	6.86	108.14	105.40
26	BB	1906	G	C8-N9-C4	6.86	109.14	106.40
26	BB	2353	G	C3'-C2'-C1'	-6.86	96.01	101.50
1	AA	180	U	C4'-C3'-C2'	-6.86	95.75	102.60
1	AA	431	A	C5-N7-C8	6.86	107.33	103.90
1	AA	1105	A	O4'-C1'-N9	6.86	113.69	108.20
1	AA	1258	G	C4'-C3'-C2'	-6.86	95.74	102.60
1	AA	1484	C	N1-C2-O2	6.86	123.01	118.90
25	BA	6	G	C5-N7-C8	-6.86	100.87	104.30
26	BB	11	C	C4'-C3'-C2'	-6.86	95.74	102.60
26	BB	653	U	O4'-C1'-N1	6.86	113.68	108.20
26	BB	817	C	C5-C4-N4	-6.86	115.40	120.20
26	BB	1494	A	C4-C5-N7	-6.86	107.27	110.70
26	BB	1725	U	N3-C4-C5	-6.86	110.49	114.60
26	BB	1814	G	P-O3'-C3'	6.86	127.93	119.70
29	BE	59	ARG	NE-CZ-NH1	-6.86	116.87	120.30
39	BO	130	PHE	CB-CG-CD1	6.86	125.60	120.80
26	BB	26	G	C6-N1-C2	-6.85	120.99	125.10
26	BB	1560	G	C6-C5-N7	-6.85	126.29	130.40
26	BB	2080	A	C4-C5-N7	6.85	114.13	110.70
26	BB	2134	A	N1-C6-N6	6.85	122.71	118.60
1	AA	79	G	N1-C6-O6	6.85	124.01	119.90
1	AA	174	A	N1-C2-N3	-6.85	125.87	129.30
1	AA	734	G	N3-C4-C5	-6.85	125.17	128.60
26	BB	24	G	N7-C8-N9	6.85	116.53	113.10
26	BB	1169	A	C8-N9-C4	-6.85	103.06	105.80
26	BB	1410	G	N9-C4-C5	-6.85	102.66	105.40
26	BB	2644	G	O4'-C1'-N9	6.85	113.68	108.20
26	BB	2673	G	C4'-C3'-C2'	-6.85	95.75	102.60
26	BB	2868	A	C2-N3-C4	6.85	114.03	110.60
1	AA	280	C	O4'-C4'-C3'	6.85	111.58	106.10
1	AA	325	A	C4'-C3'-C2'	-6.85	95.75	102.60
1	AA	1534	A	C5-N7-C8	-6.85	100.47	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	348	G	C8-N9-C4	-6.85	103.66	106.40
1	AA	661	G	N7-C8-N9	6.85	116.53	113.10
1	AA	730	G	O4'-C1'-N9	6.85	113.68	108.20
1	AA	1493	A	N1-C2-N3	-6.85	125.88	129.30
26	BB	30	G	C1'-O4'-C4'	-6.85	104.42	109.90
26	BB	816	C	N1-C1'-C2'	-6.85	104.47	112.00
26	BB	1091	G	C8-N9-C4	6.85	109.14	106.40
26	BB	1457	U	N3-C2-O2	-6.85	117.41	122.20
26	BB	2438	U	N3-C4-O4	6.85	124.19	119.40
26	BB	2447	G	N3-C4-C5	-6.85	125.17	128.60
26	BB	2650	U	O4'-C1'-N1	6.85	113.68	108.20
26	BB	2876	G	N3-C4-N9	-6.85	121.89	126.00
1	AA	239	U	C4'-C3'-C2'	-6.85	95.75	102.60
1	AA	1006	G	C6-N1-C2	-6.85	120.99	125.10
1	AA	1369	C	C5-C6-N1	6.85	124.42	121.00
2	AB	18	G	C6-C5-N7	-6.85	126.29	130.40
2	AB	52	A	C5'-C4'-O4'	6.85	117.32	109.10
26	BB	96	C	O4'-C1'-N1	6.85	113.68	108.20
26	BB	1008	A	C3'-C2'-C1'	6.85	106.98	101.50
26	BB	1294	U	C4'-C3'-C2'	-6.85	95.75	102.60
26	BB	1607	C	C4'-C3'-C2'	-6.85	95.75	102.60
26	BB	1924	C	C5-C6-N1	6.85	124.42	121.00
26	BB	2807	U	P-O3'-C3'	6.85	127.92	119.70
26	BB	610	C	C4-C5-C6	-6.85	113.98	117.40
26	BB	2145	C	N1-C2-O2	6.85	123.01	118.90
31	BG	88	VAL	CA-CB-CG1	6.85	121.17	110.90
1	AA	786	G	C5'-C4'-O4'	6.84	117.31	109.10
1	AA	1241	G	N3-C4-N9	-6.84	121.89	126.00
1	AA	1393	U	P-O3'-C3'	6.84	127.91	119.70
1	AA	1435	G	C8-N9-C4	-6.84	103.66	106.40
26	BB	76	C	C5-C6-N1	-6.84	117.58	121.00
26	BB	89	A	C5'-C4'-O4'	6.84	117.31	109.10
26	BB	853	C	N1-C2-O2	6.84	123.01	118.90
26	BB	990	A	O4'-C1'-N9	6.84	113.67	108.20
26	BB	1222	U	N1-C2-N3	6.84	119.01	114.90
26	BB	1339	G	C2-N3-C4	6.84	115.32	111.90
26	BB	2389	G	O3'-P-O5'	-6.84	91.00	104.00
26	BB	2692	G	C6-C5-N7	-6.84	126.29	130.40
1	AA	365	U	C1'-O4'-C4'	-6.84	104.43	109.90
1	AA	665	A	O4'-C4'-C3'	-6.84	97.16	104.00
1	AA	838	G	C5-C6-N1	-6.84	108.08	111.50
26	BB	2444	G	N7-C8-N9	6.84	116.52	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	610	U	O4'-C1'-N1	6.84	113.67	108.20
1	AA	1135	U	C4-C5-C6	6.84	123.81	119.70
1	AA	1333	A	N7-C8-N9	6.84	117.22	113.80
26	BB	83	A	C5'-C4'-O4'	6.84	117.31	109.10
26	BB	944	C	C5-C6-N1	6.84	124.42	121.00
26	BB	1284	A	C4-C5-C6	6.84	120.42	117.00
26	BB	1628	G	C4-C5-N7	-6.84	108.06	110.80
26	BB	1889	A	C8-N9-C4	-6.84	103.06	105.80
26	BB	2414	G	N9-C4-C5	-6.84	102.66	105.40
1	AA	665	A	C4-C5-C6	-6.84	113.58	117.00
10	AJ	159	ARG	NE-CZ-NH2	-6.84	116.88	120.30
19	AS	17	TYR	CB-CG-CD2	-6.84	116.90	121.00
25	BA	4	C	N3-C4-N4	6.84	122.79	118.00
26	BB	187	G	C6-C5-N7	6.84	134.50	130.40
26	BB	694	U	O4'-C1'-N1	6.84	113.67	108.20
26	BB	823	C	C6-N1-C2	-6.84	117.56	120.30
26	BB	1103	A	C2-N3-C4	6.84	114.02	110.60
26	BB	1481	U	N1-C2-O2	6.84	127.59	122.80
26	BB	1792	G	N7-C8-N9	-6.84	109.68	113.10
26	BB	2365	G	C2-N3-C4	6.84	115.32	111.90
26	BB	2455	G	C6-N1-C2	-6.84	121.00	125.10
26	BB	2459	A	C4-C5-C6	-6.84	113.58	117.00
1	AA	900	A	C4-C5-C6	-6.84	113.58	117.00
1	AA	1324	A	C2-N3-C4	6.84	114.02	110.60
25	BA	101	A	C2-N3-C4	6.84	114.02	110.60
26	BB	462	C	C4-C5-C6	-6.84	113.98	117.40
26	BB	517	C	C2-N3-C4	6.84	123.32	119.90
26	BB	1849	G	N3-C4-C5	-6.84	125.18	128.60
26	BB	1992	G	C5-N7-C8	-6.84	100.88	104.30
26	BB	2532	G	C5-N7-C8	6.84	107.72	104.30
26	BB	2597	G	C5-N7-C8	-6.84	100.88	104.30
29	BE	80	TRP	CD1-NE1-CE2	6.84	115.15	109.00
52	B1	7	THR	CA-CB-CG2	6.84	121.97	112.40
1	AA	235	C	N3-C4-N4	6.84	122.78	118.00
1	AA	496	A	C8-N9-C4	-6.84	103.06	105.80
1	AA	502	A	N1-C6-N6	-6.84	114.50	118.60
1	AA	670	G	N3-C4-C5	-6.84	125.18	128.60
1	AA	1026	G	O4'-C1'-N9	6.84	113.67	108.20
1	AA	1115	U	N3-C2-O2	-6.84	117.41	122.20
26	BB	366	C	C2-N3-C4	6.84	123.32	119.90
26	BB	752	A	O4'-C4'-C3'	6.84	111.57	106.10
26	BB	1426	G	C6-C5-N7	-6.84	126.30	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1473	G	C6-N1-C2	-6.84	121.00	125.10
26	BB	2217	G	C5-N7-C8	-6.84	100.88	104.30
26	BB	2316	G	N3-C4-C5	-6.84	125.18	128.60
1	AA	1269	A	N9-C1'-C2'	-6.83	104.48	112.00
26	BB	1056	G	C4-C5-N7	-6.83	108.07	110.80
26	BB	1386	C	C5'-C4'-O4'	6.83	117.30	109.10
26	BB	1961	C	N3-C4-C5	-6.83	119.17	121.90
1	AA	63	C	C5-C4-N4	-6.83	115.42	120.20
1	AA	1319	A	C6-C5-N7	-6.83	127.52	132.30
3	AC	18	A	O4'-C1'-C2'	-6.83	98.97	105.80
4	AD	17	C	O3'-P-O5'	-6.83	91.02	104.00
25	BA	111	U	C5-C4-O4	-6.83	121.80	125.90
26	BB	1546	G	N3-C4-N9	-6.83	121.90	126.00
26	BB	2377	A	C5-C6-N1	-6.83	114.28	117.70
1	AA	378	G	C5-C6-O6	-6.83	124.50	128.60
26	BB	580	U	C2-N3-C4	-6.83	122.90	127.00
26	BB	1232	G	N3-C2-N2	-6.83	115.12	119.90
26	BB	1682	G	N3-C4-N9	6.83	130.10	126.00
26	BB	2162	G	C2-N3-C4	6.83	115.31	111.90
26	BB	2839	G	C5-C6-O6	-6.83	124.50	128.60
51	B0	23	ARG	NH1-CZ-NH2	-6.83	111.89	119.40
1	AA	776	G	N3-C4-N9	-6.83	121.90	126.00
1	AA	1245	C	N3-C2-O2	-6.83	117.12	121.90
1	AA	1468	A	C6-N1-C2	-6.83	114.50	118.60
4	AD	58	A	C5-C6-N6	6.83	129.16	123.70
25	BA	65	U	C6-N1-C2	-6.83	116.90	121.00
26	BB	410	G	C3'-C2'-C1'	-6.83	96.04	101.50
26	BB	446	G	C4-C5-C6	6.83	122.90	118.80
26	BB	1451	C	C2-N3-C4	6.83	123.31	119.90
26	BB	1788	C	C6-N1-C2	-6.83	117.57	120.30
35	BK	133	ARG	NE-CZ-NH1	6.83	123.72	120.30
1	AA	159	G	C8-N9-C4	-6.83	103.67	106.40
1	AA	343	U	C4'-C3'-C2'	-6.83	95.77	102.60
1	AA	406	G	C5-C6-N1	6.83	114.91	111.50
1	AA	554	A	N1-C6-N6	6.83	122.70	118.60
1	AA	1520	C	O4'-C1'-N1	6.83	113.66	108.20
2	AB	44	G	C5-C6-O6	-6.83	124.50	128.60
4	AD	32	G	C8-N9-C4	-6.83	103.67	106.40
26	BB	399	U	O4'-C1'-C2'	6.83	113.75	107.60
26	BB	505	A	C5-C6-N1	-6.83	114.28	117.70
26	BB	604	G	N1-C2-N3	-6.83	119.80	123.90
26	BB	1521	G	N3-C4-C5	-6.83	125.19	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1857	G	N3-C4-N9	6.83	130.10	126.00
1	AA	43	C	N1-C2-N3	-6.83	114.42	119.20
1	AA	504	C	C3'-C2'-C1'	6.83	106.96	101.50
1	AA	1023	U	N1-C2-O2	6.83	127.58	122.80
1	AA	1430	A	C5-C6-N1	6.83	121.11	117.70
26	BB	579	G	C5-C6-N1	6.83	114.91	111.50
26	BB	784	G	O5'-P-OP2	-6.83	99.56	105.70
26	BB	1529	G	N7-C8-N9	6.83	116.51	113.10
1	AA	89	U	C4-C5-C6	6.83	123.80	119.70
1	AA	208	U	C5-C4-O4	-6.83	121.81	125.90
1	AA	322	C	N3-C4-C5	-6.83	119.17	121.90
1	AA	971	G	C5-C6-O6	-6.83	124.50	128.60
1	AA	1068	G	C4-C5-N7	-6.83	108.07	110.80
2	AB	3	G	N1-C6-O6	-6.83	115.81	119.90
4	AD	31	G	N9-C1'-C2'	-6.83	104.49	112.00
26	BB	402	A	N9-C4-C5	6.83	108.53	105.80
26	BB	1187	G	O4'-C4'-C3'	6.83	111.56	106.10
26	BB	1257	C	C6-N1-C2	6.83	123.03	120.30
26	BB	1505	A	C6-N1-C2	6.83	122.69	118.60
26	BB	1608	A	C4-C5-N7	-6.83	107.29	110.70
26	BB	1739	A	C6-C5-N7	6.83	137.08	132.30
42	BR	98	TYR	CB-CG-CD2	-6.83	116.90	121.00
1	AA	1036	A	C4-C5-C6	-6.82	113.59	117.00
1	AA	1338	G	N3-C4-N9	6.82	130.09	126.00
2	AB	30	G	C5-N7-C8	-6.82	100.89	104.30
26	BB	93	G	N3-C4-N9	6.82	130.09	126.00
26	BB	293	U	C3'-C2'-C1'	-6.82	96.04	101.50
26	BB	411	G	N9-C4-C5	-6.82	102.67	105.40
26	BB	1220	G	C4-C5-C6	6.82	122.89	118.80
26	BB	1892	C	C4'-C3'-C2'	-6.82	95.78	102.60
26	BB	1963	U	N3-C2-O2	-6.82	117.42	122.20
26	BB	2397	G	N3-C2-N2	6.82	124.68	119.90
26	BB	2660	A	O4'-C1'-N9	6.82	113.66	108.20
26	BB	2661	G	C2-N3-C4	6.82	115.31	111.90
26	BB	2862	G	C5-N7-C8	-6.82	100.89	104.30
26	BB	2885	G	C2-N3-C4	6.82	115.31	111.90
1	AA	625	U	C4'-C3'-C2'	6.82	109.42	102.60
1	AA	1362	A	N7-C8-N9	6.82	117.21	113.80
1	AA	1517	G	N3-C4-C5	-6.82	125.19	128.60
26	BB	1519	G	N3-C2-N2	-6.82	115.12	119.90
1	AA	93	U	C3'-C2'-C1'	6.82	106.96	101.50
1	AA	128	G	C5-C6-N1	6.82	114.91	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1199	U	O4'-C1'-N1	6.82	113.66	108.20
1	AA	1242	G	C8-N9-C4	-6.82	103.67	106.40
1	AA	1303	C	C6-N1-C2	-6.82	117.57	120.30
1	AA	1450	U	N1-C1'-C2'	-6.82	104.50	112.00
4	AD	6	G	N3-C4-C5	-6.82	125.19	128.60
4	AD	76	C	C5'-C4'-C3'	6.82	126.91	116.00
26	BB	259	G	N3-C4-C5	6.82	132.01	128.60
26	BB	325	G	C5-C6-O6	-6.82	124.51	128.60
26	BB	804	A	N1-C2-N3	-6.82	125.89	129.30
26	BB	1455	G	C6-N1-C2	-6.82	121.01	125.10
26	BB	2135	A	N1-C2-N3	6.82	132.71	129.30
26	BB	2178	C	C5-C6-N1	6.82	124.41	121.00
26	BB	2198	A	C6-C5-N7	6.82	137.07	132.30
26	BB	2310	C	C5'-C4'-O4'	6.82	117.28	109.10
26	BB	2685	G	C6-N1-C2	-6.82	121.01	125.10
1	AA	27	G	C4-C5-C6	6.82	122.89	118.80
3	AC	17	U	C5'-C4'-O4'	6.82	117.28	109.10
26	BB	109	C	C5'-C4'-O4'	6.82	117.28	109.10
1	AA	345	C	N3-C2-O2	-6.82	117.13	121.90
1	AA	913	A	C8-N9-C4	-6.82	103.07	105.80
25	BA	8	C	N3-C4-N4	6.82	122.77	118.00
26	BB	360	U	N1-C2-N3	6.82	118.99	114.90
26	BB	806	C	O4'-C1'-N1	6.82	113.65	108.20
1	AA	698	G	C8-N9-C4	-6.82	103.67	106.40
1	AA	1341	U	C5-C6-N1	6.82	126.11	122.70
2	AB	57	G	C2-N3-C4	-6.82	108.49	111.90
3	AC	29	G	N3-C4-N9	6.82	130.09	126.00
14	AN	68	ARG	NE-CZ-NH2	-6.82	116.89	120.30
25	BA	27	C	O4'-C1'-C2'	6.82	113.73	107.60
26	BB	176	A	C4'-C3'-C2'	-6.82	95.78	102.60
26	BB	724	U	C4'-C3'-C2'	-6.82	95.78	102.60
26	BB	1245	G	C5-C6-O6	-6.82	124.51	128.60
1	AA	616	G	C4-N9-C1'	-6.81	117.64	126.50
26	BB	301	G	C5'-C4'-C3'	-6.81	105.10	116.00
26	BB	312	G	C5-C6-O6	-6.81	124.51	128.60
26	BB	814	C	C5'-C4'-O4'	6.81	117.28	109.10
31	BG	21	TYR	CB-CG-CD2	-6.81	116.91	121.00
1	AA	445	G	N3-C2-N2	-6.81	115.13	119.90
1	AA	1172	C	C5-C6-N1	6.81	124.41	121.00
26	BB	620	G	O4'-C1'-C2'	-6.81	98.99	105.80
26	BB	760	G	C5-C6-N1	6.81	114.91	111.50
26	BB	1663	G	C6-C5-N7	6.81	134.49	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1958	C	C6-N1-C2	-6.81	117.58	120.30
26	BB	2205	A	O4'-C1'-N9	6.81	113.65	108.20
26	BB	2389	G	N1-C2-N2	6.81	122.33	116.20
26	BB	2435	A	C4-C5-C6	-6.81	113.59	117.00
26	BB	2632	A	C5-C6-N1	-6.81	114.29	117.70
26	BB	2785	C	C1'-O4'-C4'	6.81	115.35	109.90
26	BB	2806	C	N1-C2-N3	-6.81	114.43	119.20
1	AA	470	C	C2-N3-C4	6.81	123.31	119.90
1	AA	1057	G	C4-C5-C6	6.81	122.89	118.80
25	BA	101	A	N9-C4-C5	-6.81	103.08	105.80
26	BB	1928	A	O4'-C4'-C3'	6.81	111.55	106.10
26	BB	2298	A	N9-C4-C5	6.81	108.52	105.80
1	AA	1122	U	N1-C2-O2	6.81	127.57	122.80
1	AA	1196	A	C6-C5-N7	6.81	137.07	132.30
2	AB	42	G	N3-C4-C5	-6.81	125.19	128.60
25	BA	59	A	O4'-C1'-N9	6.81	113.65	108.20
26	BB	917	A	C2-N3-C4	6.81	114.00	110.60
26	BB	956	G	C5-C6-O6	6.81	132.69	128.60
26	BB	1043	C	C4'-C3'-C2'	-6.81	95.79	102.60
26	BB	1349	C	N1-C1'-C2'	-6.81	104.51	112.00
26	BB	1564	C	C4-C5-C6	-6.81	114.00	117.40
26	BB	1732	C	C2-N3-C4	6.81	123.30	119.90
26	BB	1940	U	C2-N3-C4	6.81	131.09	127.00
26	BB	2328	A	N7-C8-N9	6.81	117.20	113.80
26	BB	2383	G	O4'-C1'-N9	6.81	113.65	108.20
26	BB	2557	G	N7-C8-N9	-6.81	109.69	113.10
1	AA	553	A	C4-C5-C6	6.81	120.40	117.00
25	BA	48	U	C5-C6-N1	-6.81	119.30	122.70
26	BB	116	C	C4'-C3'-C2'	-6.81	95.79	102.60
26	BB	202	U	C6-N1-C2	-6.81	116.92	121.00
26	BB	390	U	N3-C2-O2	-6.81	117.44	122.20
26	BB	1018	U	N1-C1'-C2'	-6.81	104.51	112.00
26	BB	2505	G	N7-C8-N9	-6.81	109.70	113.10
26	BB	2623	G	O4'-C1'-N9	6.81	113.65	108.20
1	AA	437	U	N3-C4-O4	6.81	124.16	119.40
1	AA	752	G	O4'-C1'-N9	6.81	113.64	108.20
1	AA	1179	A	C3'-C2'-C1'	-6.81	96.06	101.50
26	BB	806	C	N3-C2-O2	-6.81	117.14	121.90
26	BB	1040	A	N9-C4-C5	6.81	108.52	105.80
26	BB	1764	C	N3-C4-C5	-6.81	119.18	121.90
26	BB	2267	A	C4-C5-C6	-6.81	113.60	117.00
1	AA	91	U	N3-C4-O4	-6.80	114.64	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	992	U	P-O3'-C3'	6.80	127.86	119.70
1	AA	1222	G	C6-C5-N7	6.80	134.48	130.40
4	AD	2	G	C4-C5-N7	-6.80	108.08	110.80
26	BB	1252	G	C5-C6-O6	-6.80	124.52	128.60
26	BB	2436	G	C5-C6-O6	6.80	132.68	128.60
26	BB	2709	G	C5-C6-N1	6.80	114.90	111.50
1	AA	172	A	C5'-C4'-O4'	6.80	117.26	109.10
1	AA	589	U	C6-N1-C2	6.80	125.08	121.00
1	AA	1102	A	O4'-C1'-N9	6.80	113.64	108.20
26	BB	429	A	O4'-C1'-N9	6.80	113.64	108.20
26	BB	819	A	C5-C6-N6	-6.80	118.26	123.70
26	BB	1029	A	N1-C6-N6	6.80	122.68	118.60
26	BB	2278	A	N1-C2-N3	-6.80	125.90	129.30
4	AD	48	U	C5-C4-O4	-6.80	121.82	125.90
19	AS	2	VAL	CG1-CB-CG2	-6.80	100.02	110.90
26	BB	396	G	C5-C6-O6	-6.80	124.52	128.60
26	BB	1552	A	N9-C4-C5	6.80	108.52	105.80
26	BB	1568	G	C5-C6-N1	6.80	114.90	111.50
26	BB	2492	U	N3-C4-O4	6.80	124.16	119.40
26	BB	2756	U	N3-C4-C5	6.80	118.68	114.60
1	AA	41	G	N1-C2-N3	-6.80	119.82	123.90
1	AA	90	C	O4'-C1'-N1	6.80	113.64	108.20
1	AA	183	C	C5-C6-N1	6.80	124.40	121.00
1	AA	255	G	C1'-O4'-C4'	6.80	115.34	109.90
1	AA	623	C	O4'-C1'-N1	6.80	113.64	108.20
1	AA	798	U	C5-C6-N1	-6.80	119.30	122.70
1	AA	848	C	C2-N3-C4	6.80	123.30	119.90
1	AA	1074	G	N1-C2-N3	-6.80	119.82	123.90
2	AB	3	G	C2-N3-C4	6.80	115.30	111.90
4	AD	75	C	C6-N1-C2	-6.80	117.58	120.30
26	BB	38	A	C1'-O4'-C4'	-6.80	104.46	109.90
49	BY	2	HIS	CA-CB-CG	6.80	125.16	113.60
1	AA	922	G	C5'-C4'-O4'	6.80	117.26	109.10
26	BB	1859	U	N3-C4-O4	6.80	124.16	119.40
26	BB	2855	C	C6-N1-C2	-6.80	117.58	120.30
26	BB	1538	G	N1-C2-N3	-6.80	119.82	123.90
26	BB	2133	G	N1-C2-N2	-6.80	110.08	116.20
26	BB	2432	A	C2'-C3'-O3'	6.80	124.58	113.70
26	BB	2629	U	C1'-O4'-C4'	-6.80	104.46	109.90
26	BB	2798	U	C5-C6-N1	-6.80	119.30	122.70
1	AA	15	G	N1-C6-O6	6.79	123.98	119.90
1	AA	449	G	N9-C4-C5	-6.79	102.68	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	763	G	C4-C5-N7	-6.79	108.08	110.80
1	AA	862	C	C2-N3-C4	6.79	123.30	119.90
1	AA	380	G	C5'-C4'-O4'	6.79	117.25	109.10
1	AA	617	G	C8-N9-C4	-6.79	103.68	106.40
1	AA	1438	G	C6-C5-N7	-6.79	126.32	130.40
26	BB	1210	G	N1-C6-O6	6.79	123.98	119.90
26	BB	1243	C	C2-N1-C1'	-6.79	111.33	118.80
26	BB	1932	A	N1-C2-N3	6.79	132.70	129.30
26	BB	1980	G	C5-N7-C8	-6.79	100.90	104.30
26	BB	2397	G	C5-N7-C8	-6.79	100.90	104.30
26	BB	2454	G	N3-C4-N9	6.79	130.08	126.00
1	AA	391	G	C5-N7-C8	-6.79	100.91	104.30
1	AA	444	G	C5'-C4'-O4'	6.79	117.25	109.10
1	AA	445	G	C8-N9-C4	-6.79	103.68	106.40
1	AA	500	G	N1-C2-N2	-6.79	110.09	116.20
1	AA	1053	G	N9-C4-C5	6.79	108.12	105.40
26	BB	863	A	C4'-C3'-C2'	-6.79	95.81	102.60
26	BB	1055	G	C1'-O4'-C4'	-6.79	104.47	109.90
26	BB	1168	G	C1'-O4'-C4'	6.79	115.33	109.90
26	BB	2491	U	N1-C2-O2	6.79	127.55	122.80
28	BD	101	ARG	NE-CZ-NH2	-6.79	116.90	120.30
26	BB	663	G	N1-C6-O6	6.79	123.97	119.90
26	BB	2215	C	N1-C2-O2	6.79	122.97	118.90
26	BB	2341	G	O4'-C1'-N9	6.79	113.63	108.20
26	BB	2654	A	N1-C6-N6	-6.79	114.53	118.60
1	AA	169	C	C5-C6-N1	-6.79	117.61	121.00
1	AA	701	U	N1-C2-O2	6.79	127.55	122.80
1	AA	1401	G	C5'-C4'-C3'	-6.79	105.14	116.00
17	AQ	62	ARG	NE-CZ-NH2	6.79	123.69	120.30
26	BB	202	U	C4-C5-C6	6.79	123.77	119.70
26	BB	1125	G	C5'-C4'-O4'	6.79	117.25	109.10
26	BB	1213	A	N1-C2-N3	-6.79	125.91	129.30
26	BB	1426	G	N9-C4-C5	6.79	108.11	105.40
26	BB	1816	C	C6-N1-C1'	-6.79	112.65	120.80
26	BB	2592	G	C3'-C2'-C1'	6.79	106.93	101.50
26	BB	2592	G	C5'-C4'-C3'	-6.79	105.14	116.00
26	BB	2627	G	N1-C2-N2	-6.79	110.09	116.20
26	BB	2861	U	C5-C4-O4	-6.79	121.83	125.90
1	AA	27	G	O4'-C1'-C2'	6.79	113.71	107.60
1	AA	138	G	N7-C8-N9	6.79	116.49	113.10
1	AA	464	U	P-O3'-C3'	6.79	127.84	119.70
1	AA	901	A	P-O3'-C3'	6.79	127.84	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1163	A	C5-C6-N1	-6.79	114.31	117.70
26	BB	8	C	C2-N3-C4	6.79	123.29	119.90
26	BB	616	A	C5-C6-N1	6.79	121.09	117.70
26	BB	896	A	N9-C4-C5	6.79	108.52	105.80
26	BB	909	A	C6-C5-N7	6.79	137.05	132.30
26	BB	986	C	C5-C6-N1	6.79	124.39	121.00
26	BB	2716	C	C1'-O4'-C4'	6.79	115.33	109.90
1	AA	58	C	O4'-C1'-N1	6.79	113.63	108.20
1	AA	71	A	O4'-C1'-N9	6.79	113.63	108.20
1	AA	370	C	C6-N1-C2	-6.79	117.59	120.30
1	AA	1171	A	N3-C4-N9	6.79	132.83	127.40
1	AA	1525	G	C6-C5-N7	-6.79	126.33	130.40
25	BA	59	A	C5-N7-C8	-6.79	100.51	103.90
26	BB	1478	G	C6-N1-C2	-6.79	121.03	125.10
26	BB	2358	A	C5-C6-N6	-6.79	118.27	123.70
26	BB	2749	A	N7-C8-N9	6.79	117.19	113.80
1	AA	1520	C	C2-N3-C4	-6.78	116.51	119.90
2	AB	5	G	C1'-O4'-C4'	6.78	115.33	109.90
26	BB	157	C	C1'-O4'-C4'	6.78	115.33	109.90
26	BB	545	U	C5-C4-O4	-6.78	121.83	125.90
26	BB	663	G	C6-C5-N7	-6.78	126.33	130.40
26	BB	775	G	C5-C6-N1	6.78	114.89	111.50
26	BB	998	C	C6-N1-C2	-6.78	117.59	120.30
26	BB	1000	A	C8-N9-C4	-6.78	103.09	105.80
26	BB	1702	G	O4'-C1'-N9	6.78	113.63	108.20
26	BB	2346	A	O4'-C4'-C3'	6.78	111.53	106.10
1	AA	258	G	N9-C1'-C2'	-6.78	104.54	112.00
1	AA	739	C	N1-C2-O2	6.78	122.97	118.90
1	AA	1236	A	C6-N1-C2	-6.78	114.53	118.60
1	AA	1281	C	C5-C4-N4	6.78	124.95	120.20
2	AB	25	C	C4'-C3'-C2'	-6.78	95.82	102.60
26	BB	567	U	N3-C2-O2	-6.78	117.45	122.20
26	BB	614	A	N1-C2-N3	-6.78	125.91	129.30
26	BB	2248	C	C4'-C3'-C2'	-6.78	95.82	102.60
26	BB	2525	G	O4'-C1'-N9	6.78	113.63	108.20
1	AA	37	U	N1-C1'-C2'	-6.78	104.54	112.00
1	AA	195	A	C5-N7-C8	6.78	107.29	103.90
1	AA	632	U	C2-N3-C4	6.78	131.07	127.00
1	AA	851	G	N1-C2-N3	6.78	127.97	123.90
1	AA	1074	G	N3-C4-C5	-6.78	125.21	128.60
1	AA	1465	A	C4'-C3'-C2'	-6.78	95.82	102.60
3	AC	21	U	N3-C4-O4	6.78	124.15	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1613	G	O4'-C1'-N9	6.78	113.62	108.20
26	BB	2462	C	N3-C2-O2	-6.78	117.15	121.90
26	BB	2469	A	C5-N7-C8	-6.78	100.51	103.90
26	BB	2622	U	C3'-C2'-C1'	6.78	106.92	101.50
1	AA	354	G	N3-C2-N2	-6.78	115.16	119.90
26	BB	1562	U	N1-C2-O2	6.78	127.55	122.80
42	BR	26	GLU	OE1-CD-OE2	6.78	131.43	123.30
1	AA	34	C	O4'-C1'-N1	6.78	113.62	108.20
1	AA	855	U	O4'-C1'-N1	6.78	113.62	108.20
1	AA	881	G	C5'-C4'-C3'	-6.78	105.16	116.00
26	BB	22	C	C5-C6-N1	-6.78	117.61	121.00
26	BB	605	G	N3-C4-N9	6.78	130.07	126.00
26	BB	986	C	N3-C4-C5	6.78	124.61	121.90
26	BB	1081	U	C1'-O4'-C4'	-6.78	104.48	109.90
26	BB	2803	G	C3'-C2'-C1'	-6.78	96.08	101.50
1	AA	119	A	C2-N3-C4	6.78	113.99	110.60
1	AA	246	A	C1'-O4'-C4'	6.78	115.32	109.90
1	AA	564	C	C5'-C4'-O4'	6.78	117.23	109.10
1	AA	1090	U	C5'-C4'-O4'	6.78	117.23	109.10
1	AA	1507	A	N9-C4-C5	6.78	108.51	105.80
2	AB	60	U	C5-C4-O4	6.78	129.97	125.90
26	BB	1878	G	C2-N3-C4	6.78	115.29	111.90
26	BB	1996	C	O4'-C4'-C3'	6.78	111.52	106.10
26	BB	2086	U	N3-C4-O4	6.78	124.14	119.40
26	BB	2277	G	C3'-C2'-C1'	-6.78	96.08	101.50
26	BB	2722	G	C5-C6-N1	6.78	114.89	111.50
25	BA	39	A	N3-C4-N9	-6.77	121.98	127.40
26	BB	372	G	N1-C2-N2	-6.77	110.10	116.20
26	BB	764	A	C4'-C3'-C2'	6.77	109.37	102.60
26	BB	1006	C	N1-C2-O2	6.77	122.96	118.90
26	BB	1528	A	N9-C1'-C2'	-6.77	104.55	112.00
26	BB	1562	U	N3-C2-O2	-6.77	117.46	122.20
26	BB	2415	G	C5-C6-N1	6.77	114.89	111.50
1	AA	443	C	C5'-C4'-O4'	6.77	117.23	109.10
1	AA	463	U	N1-C2-N3	6.77	118.96	114.90
1	AA	592	G	C1'-O4'-C4'	-6.77	104.48	109.90
1	AA	912	C	N1-C2-N3	6.77	123.94	119.20
1	AA	948	C	O4'-C1'-N1	6.77	113.62	108.20
4	AD	52	C	N3-C4-C5	-6.77	119.19	121.90
26	BB	255	A	C4-C5-N7	-6.77	107.31	110.70
26	BB	997	G	C5-N7-C8	6.77	107.69	104.30
26	BB	1002	G	N3-C4-N9	6.77	130.06	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1536	C	C5-C4-N4	-6.77	115.46	120.20
26	BB	1692	U	N1-C2-O2	6.77	127.54	122.80
26	BB	1713	A	O4'-C1'-N9	6.77	113.62	108.20
26	BB	2175	C	C1'-O4'-C4'	6.77	115.32	109.90
26	BB	2203	U	N1-C2-N3	6.77	118.96	114.90
1	AA	851	G	N3-C2-N2	-6.77	115.16	119.90
26	BB	1016	G	C8-N9-C4	-6.77	103.69	106.40
26	BB	2024	G	C4'-C3'-C2'	-6.77	95.83	102.60
34	BJ	45	ARG	CD-NE-CZ	6.77	133.08	123.60
1	AA	449	G	C6-C5-N7	-6.77	126.34	130.40
1	AA	605	U	C5-C6-N1	6.77	126.08	122.70
1	AA	812	G	N9-C1'-C2'	6.77	122.80	114.00
1	AA	1388	C	O4'-C1'-N1	6.77	113.61	108.20
26	BB	957	C	O4'-C1'-N1	6.77	113.61	108.20
26	BB	1342	A	N1-C2-N3	-6.77	125.92	129.30
26	BB	2588	G	C5-N7-C8	-6.77	100.92	104.30
26	BB	2693	G	C5-C6-N1	-6.77	108.11	111.50
26	BB	2718	G	N3-C4-C5	-6.77	125.22	128.60
1	AA	183	C	C4-C5-C6	-6.77	114.02	117.40
1	AA	734	G	N3-C2-N2	6.77	124.64	119.90
1	AA	894	G	C8-N9-C4	-6.77	103.69	106.40
1	AA	1079	G	C6-C5-N7	-6.77	126.34	130.40
1	AA	1461	G	C5'-C4'-O4'	6.77	117.22	109.10
26	BB	1237	A	O4'-C1'-N9	6.77	113.61	108.20
26	BB	1768	C	N3-C2-O2	-6.77	117.16	121.90
26	BB	1949	G	C5-N7-C8	6.77	107.68	104.30
26	BB	2033	A	C5-C6-N6	-6.77	118.29	123.70
26	BB	2097	A	C5'-C4'-O4'	6.77	117.22	109.10
26	BB	2354	C	P-O3'-C3'	6.77	127.82	119.70
26	BB	2670	A	N1-C6-N6	6.77	122.66	118.60
26	BB	2801	G	C5'-C4'-O4'	6.77	117.22	109.10
26	BB	2883	A	C6-C5-N7	6.77	137.04	132.30
1	AA	1497	G	C2-N3-C4	6.77	115.28	111.90
1	AA	1531	A	C6-N1-C2	6.77	122.66	118.60
3	AC	17	U	C4'-C3'-C2'	-6.77	95.83	102.60
26	BB	254	G	C3'-C2'-C1'	6.77	106.91	101.50
26	BB	389	G	C6-C5-N7	6.77	134.46	130.40
26	BB	1723	G	O4'-C1'-N9	6.77	113.61	108.20
26	BB	2671	G	N7-C8-N9	6.77	116.48	113.10
26	BB	2734	A	C4'-C3'-C2'	-6.77	95.83	102.60
1	AA	301	G	C2-N3-C4	-6.76	108.52	111.90
1	AA	309	A	N3-C4-N9	6.76	132.81	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1356	G	N7-C8-N9	6.76	116.48	113.10
26	BB	338	G	C5-C6-O6	-6.76	124.54	128.60
26	BB	351	C	N3-C4-N4	6.76	122.74	118.00
26	BB	967	U	C1'-O4'-C4'	6.76	115.31	109.90
26	BB	2077	A	N9-C4-C5	6.76	108.51	105.80
26	BB	2431	U	P-O3'-C3'	6.76	127.82	119.70
45	BU	25	ARG	NE-CZ-NH2	-6.76	116.92	120.30
1	AA	28	A	N9-C4-C5	6.76	108.50	105.80
1	AA	241	G	C3'-C2'-C1'	-6.76	96.09	101.50
26	BB	998	C	C3'-C2'-C1'	6.76	106.91	101.50
26	BB	2232	C	O4'-C1'-N1	6.76	113.61	108.20
1	AA	309	A	C6-C5-N7	-6.76	127.57	132.30
1	AA	1361	G	C8-N9-C1'	6.76	135.79	127.00
2	AB	67	G	C4-C5-N7	-6.76	108.09	110.80
26	BB	499	U	C2-N3-C4	-6.76	122.94	127.00
26	BB	1044	C	C5'-C4'-O4'	6.76	117.21	109.10
26	BB	1057	A	C3'-C2'-C1'	-6.76	96.09	101.50
26	BB	1214	A	N3-C4-C5	-6.76	122.07	126.80
26	BB	1296	G	C6-C5-N7	-6.76	126.34	130.40
26	BB	1473	G	N3-C2-N2	6.76	124.63	119.90
26	BB	1585	C	C5'-C4'-C3'	-6.76	105.18	116.00
26	BB	1731	G	N1-C2-N3	-6.76	119.84	123.90
26	BB	2060	A	C5-N7-C8	-6.76	100.52	103.90
26	BB	2067	G	C5'-C4'-C3'	-6.76	105.18	116.00
26	BB	2890	G	N7-C8-N9	-6.76	109.72	113.10
1	AA	194	C	C6-N1-C2	6.76	123.00	120.30
1	AA	246	A	C8-N9-C4	-6.76	103.10	105.80
1	AA	627	G	C2-N3-C4	6.76	115.28	111.90
1	AA	1176	A	N3-C4-N9	6.76	132.81	127.40
2	AB	29	G	C6-C5-N7	-6.76	126.34	130.40
26	BB	477	A	N1-C6-N6	-6.76	114.54	118.60
26	BB	519	U	C4-C5-C6	6.76	123.75	119.70
26	BB	524	G	O4'-C1'-N9	6.76	113.61	108.20
26	BB	804	A	C8-N9-C4	-6.76	103.10	105.80
26	BB	1015	U	C5-C6-N1	6.76	126.08	122.70
26	BB	2384	U	C4-C5-C6	6.76	123.76	119.70
26	BB	2799	A	C4-C5-N7	-6.76	107.32	110.70
26	BB	2853	C	N3-C4-N4	6.76	122.73	118.00
53	B2	51	VAL	CA-CB-CG2	6.76	121.04	110.90
1	AA	170	U	N3-C4-C5	6.76	118.66	114.60
1	AA	418	C	C6-N1-C2	-6.76	117.60	120.30
1	AA	540	G	C4-C5-C6	6.76	122.86	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	632	U	N3-C4-C5	-6.76	110.55	114.60
1	AA	459	A	N9-C4-C5	-6.76	103.10	105.80
1	AA	534	U	N3-C2-O2	6.76	126.93	122.20
1	AA	585	G	C4-C5-C6	6.76	122.85	118.80
1	AA	627	G	C4-N9-C1'	-6.76	117.72	126.50
1	AA	942	G	C6-N1-C2	-6.76	121.05	125.10
25	BA	106	G	C3'-C2'-C1'	-6.76	96.09	101.50
26	BB	68	G	N7-C8-N9	6.76	116.48	113.10
26	BB	157	C	N1-C2-O2	6.76	122.95	118.90
26	BB	1292	G	N1-C2-N3	-6.76	119.85	123.90
26	BB	1375	U	N1-C1'-C2'	-6.76	104.57	112.00
26	BB	1517	G	C5-C6-O6	6.76	132.65	128.60
26	BB	1722	A	C5-C6-N1	6.76	121.08	117.70
26	BB	2013	A	C8-N9-C4	6.76	108.50	105.80
26	BB	2569	G	N1-C6-O6	6.76	123.95	119.90
4	AD	47	A	C4-C5-C6	-6.75	113.62	117.00
26	BB	15	G	O5'-P-OP1	-6.75	99.62	105.70
26	BB	195	A	C5'-C4'-O4'	6.75	117.21	109.10
26	BB	451	U	O4'-C1'-N1	6.75	113.60	108.20
26	BB	1574	C	P-O3'-C3'	6.75	127.81	119.70
36	BL	99	ARG	NE-CZ-NH2	6.75	123.68	120.30
1	AA	835	U	N3-C4-C5	-6.75	110.55	114.60
4	AD	17	C	N3-C2-O2	-6.75	117.17	121.90
6	AF	41	TYR	CB-CG-CD2	6.75	125.05	121.00
15	AO	120	ARG	NE-CZ-NH2	-6.75	116.92	120.30
26	BB	697	G	N1-C6-O6	-6.75	115.85	119.90
26	BB	915	C	C1'-O4'-C4'	-6.75	104.50	109.90
26	BB	1529	G	C4-C5-N7	-6.75	108.10	110.80
26	BB	1758	U	C4-C5-C6	6.75	123.75	119.70
26	BB	2670	A	C4-C5-C6	6.75	120.38	117.00
1	AA	239	U	C2-N3-C4	-6.75	122.95	127.00
1	AA	301	G	C5-C6-N1	6.75	114.88	111.50
1	AA	337	G	O4'-C1'-N9	6.75	113.60	108.20
1	AA	338	A	C4'-C3'-C2'	-6.75	95.85	102.60
1	AA	567	G	C4-C5-N7	-6.75	108.10	110.80
1	AA	721	G	C6-N1-C2	-6.75	121.05	125.10
1	AA	1336	C	C5-C6-N1	6.75	124.38	121.00
1	AA	1347	G	N1-C2-N3	-6.75	119.85	123.90
1	AA	1380	U	C4-C5-C6	6.75	123.75	119.70
26	BB	28	A	O4'-C1'-C2'	6.75	113.68	107.60
26	BB	1392	A	C8-N9-C4	-6.75	103.10	105.80
26	BB	1563	U	C5-C4-O4	-6.75	121.85	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2526	G	N1-C6-O6	-6.75	115.85	119.90
26	BB	2803	G	C5-C6-O6	-6.75	124.55	128.60
1	AA	205	A	C5-C6-N6	6.75	129.10	123.70
1	AA	300	A	C8-N9-C4	-6.75	103.10	105.80
1	AA	1421	G	C4-C5-C6	6.75	122.85	118.80
26	BB	623	C	C3'-C2'-C1'	-6.75	96.10	101.50
26	BB	1028	A	N7-C8-N9	6.75	117.17	113.80
26	BB	1163	G	N9-C1'-C2'	-6.75	104.58	112.00
26	BB	1685	C	N1-C2-O2	6.75	122.95	118.90
26	BB	1694	C	O4'-C1'-C2'	-6.75	99.05	105.80
1	AA	537	G	C2-N3-C4	6.75	115.27	111.90
3	AC	28	U	C5-C6-N1	-6.75	119.33	122.70
26	BB	489	G	C5-C6-O6	-6.75	124.55	128.60
26	BB	563	A	C4-C5-C6	-6.75	113.63	117.00
26	BB	687	C	C2-N3-C4	-6.75	116.53	119.90
26	BB	860	U	C4-C5-C6	-6.75	115.65	119.70
26	BB	1760	C	C5'-C4'-O4'	-6.75	101.00	109.10
26	BB	2484	G	C4-C5-C6	6.75	122.85	118.80
26	BB	2690	U	N3-C2-O2	-6.75	117.48	122.20
1	AA	102	G	N9-C4-C5	6.75	108.10	105.40
1	AA	647	C	O4'-C1'-N1	6.75	113.60	108.20
1	AA	1048	G	C5'-C4'-O4'	6.75	117.19	109.10
1	AA	1292	G	N3-C2-N2	-6.75	115.18	119.90
1	AA	1320	C	C4-C5-C6	-6.75	114.03	117.40
14	AN	75	GLU	OE1-CD-OE2	6.75	131.40	123.30
25	BA	22	U	O4'-C4'-C3'	6.75	111.50	106.10
26	BB	262	A	C5-N7-C8	-6.75	100.53	103.90
26	BB	356	G	N3-C4-N9	6.75	130.05	126.00
26	BB	700	G	C4-C5-N7	-6.75	108.10	110.80
26	BB	1177	G	C1'-O4'-C4'	-6.75	104.50	109.90
26	BB	1510	G	C6-N1-C2	-6.75	121.05	125.10
26	BB	2101	A	C5-N7-C8	-6.75	100.53	103.90
26	BB	2379	G	C5-C6-N1	6.75	114.87	111.50
26	BB	2494	G	C6-C5-N7	-6.75	126.35	130.40
1	AA	864	A	C6-N1-C2	-6.75	114.55	118.60
10	AJ	154	ARG	NE-CZ-NH2	-6.75	116.93	120.30
26	BB	143	C	C5-C6-N1	6.75	124.37	121.00
26	BB	1228	G	C6-N1-C2	-6.75	121.05	125.10
26	BB	1280	G	C6-C5-N7	-6.75	126.35	130.40
26	BB	1554	U	O4'-C1'-N1	6.75	113.60	108.20
1	AA	1	A	N1-C2-N3	-6.74	125.93	129.30
1	AA	10	A	C4-C5-N7	-6.74	107.33	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	691	G	O4'-C4'-C3'	6.74	111.50	106.10
1	AA	1050	G	O4'-C1'-N9	6.74	113.59	108.20
4	AD	3	C	N1-C2-O2	6.74	122.95	118.90
26	BB	1181	U	O4'-C1'-N1	6.74	113.59	108.20
26	BB	1753	G	C5-C6-N1	6.74	114.87	111.50
26	BB	1756	G	C5-C6-O6	-6.74	124.55	128.60
26	BB	2095	A	N1-C6-N6	-6.74	114.55	118.60
26	BB	2486	C	N3-C2-O2	-6.74	117.18	121.90
26	BB	2856	A	C4-C5-C6	-6.74	113.63	117.00
1	AA	421	U	O4'-C4'-C3'	6.74	111.49	106.10
1	AA	821	G	N9-C4-C5	-6.74	102.70	105.40
1	AA	975	A	N9-C4-C5	-6.74	103.10	105.80
1	AA	1098	C	N3-C4-C5	-6.74	119.20	121.90
6	AF	131	ARG	CD-NE-CZ	6.74	133.04	123.60
25	BA	20	G	N1-C2-N2	6.74	122.27	116.20
26	BB	2455	G	N1-C2-N2	6.74	122.27	116.20
26	BB	2491	U	C4'-C3'-C2'	-6.74	95.86	102.60
26	BB	2886	A	C6-N1-C2	6.74	122.64	118.60
1	AA	392	C	N1-C2-O2	6.74	122.94	118.90
1	AA	761	G	N3-C4-C5	-6.74	125.23	128.60
1	AA	771	G	O5'-P-OP2	-6.74	99.63	105.70
1	AA	804	U	C5-C4-O4	-6.74	121.86	125.90
1	AA	1127	G	C3'-C2'-C1'	6.74	106.89	101.50
1	AA	1139	G	N3-C4-N9	-6.74	121.95	126.00
1	AA	1246	A	C6-N1-C2	-6.74	114.56	118.60
26	BB	300	A	N1-C6-N6	6.74	122.64	118.60
26	BB	743	A	N9-C4-C5	6.74	108.50	105.80
26	BB	987	C	C5-C6-N1	-6.74	117.63	121.00
26	BB	1056	G	C1'-O4'-C4'	6.74	115.29	109.90
26	BB	1070	A	C8-N9-C4	6.74	108.50	105.80
26	BB	1273	U	N1-C2-N3	6.74	118.94	114.90
26	BB	1383	A	C5-C6-N1	6.74	121.07	117.70
26	BB	1476	U	N1-C2-N3	6.74	118.94	114.90
26	BB	2711	A	C1'-O4'-C4'	-6.74	104.51	109.90
1	AA	480	U	C6-N1-C2	-6.74	116.96	121.00
1	AA	812	G	N9-C4-C5	6.74	108.09	105.40
1	AA	1530	G	C5-C6-N1	6.74	114.87	111.50
4	AD	46	G	O3'-P-O5'	-6.74	91.20	104.00
26	BB	1113	U	N3-C4-O4	-6.74	114.68	119.40
1	AA	269	C	C5-C4-N4	6.74	124.92	120.20
1	AA	1218	C	N1-C2-N3	6.74	123.92	119.20
1	AA	1496	C	N3-C2-O2	-6.74	117.18	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	120	U	C5-C4-O4	6.74	129.94	125.90
26	BB	1791	A	C2-N3-C4	6.74	113.97	110.60
1	AA	787	A	C3'-C2'-C1'	-6.74	96.11	101.50
1	AA	1105	A	C4-C5-C6	-6.74	113.63	117.00
1	AA	1437	A	C8-N9-C4	-6.74	103.11	105.80
3	AC	21	U	C4'-C3'-C2'	6.74	109.34	102.60
26	BB	993	G	C6-N1-C2	-6.74	121.06	125.10
38	BN	2	ARG	NH1-CZ-NH2	-6.74	111.99	119.40
1	AA	312	C	C3'-C2'-C1'	6.73	106.89	101.50
1	AA	732	C	C5-C6-N1	-6.73	117.63	121.00
1	AA	1104	G	C5-C6-O6	-6.73	124.56	128.60
26	BB	469	G	N1-C6-O6	-6.73	115.86	119.90
26	BB	2514	U	N3-C2-O2	-6.73	117.49	122.20
1	AA	39	G	O4'-C1'-N9	6.73	113.59	108.20
1	AA	73	C	N3-C4-C5	-6.73	119.21	121.90
1	AA	1171	A	N3-C4-C5	-6.73	122.09	126.80
1	AA	1422	G	N7-C8-N9	6.73	116.47	113.10
2	AB	15	A	C5'-C4'-O4'	6.73	117.18	109.10
4	AD	15	G	N1-C6-O6	-6.73	115.86	119.90
4	AD	75	C	N3-C2-O2	-6.73	117.19	121.90
26	BB	309	A	C2-N3-C4	6.73	113.97	110.60
26	BB	1052	C	O4'-C1'-N1	6.73	113.59	108.20
26	BB	1377	G	C4-C5-C6	-6.73	114.76	118.80
26	BB	2197	U	O4'-C1'-N1	6.73	113.58	108.20
26	BB	2739	U	O4'-C1'-N1	6.73	113.58	108.20
1	AA	1204	A	N9-C4-C5	6.73	108.49	105.80
1	AA	1248	A	C4'-C3'-C2'	-6.73	95.87	102.60
1	AA	1489	G	C4-C5-N7	-6.73	108.11	110.80
2	AB	15	A	C6-N1-C2	6.73	122.64	118.60
26	BB	216	A	N9-C1'-C2'	-6.73	104.59	112.00
26	BB	538	A	C6-N1-C2	-6.73	114.56	118.60
26	BB	716	A	C4'-C3'-C2'	-6.73	95.87	102.60
26	BB	790	U	C2-N1-C1'	6.73	125.78	117.70
26	BB	1307	A	C4-C5-C6	-6.73	113.64	117.00
26	BB	2738	A	C4-C5-C6	-6.73	113.63	117.00
1	AA	190	A	C4-C5-C6	6.73	120.36	117.00
1	AA	965	U	N3-C4-O4	6.73	124.11	119.40
26	BB	1068	G	N1-C2-N3	-6.73	119.86	123.90
26	BB	1567	G	O4'-C1'-C2'	-6.73	99.07	105.80
26	BB	2267	A	C8-N9-C4	-6.73	103.11	105.80
26	BB	2296	U	N1-C2-O2	-6.73	118.09	122.80
26	BB	2448	A	C4-C5-N7	-6.73	107.33	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	BN	18	ARG	NE-CZ-NH1	6.73	123.66	120.30
1	AA	102	G	C2-N3-C4	6.73	115.26	111.90
1	AA	546	A	C5-N7-C8	-6.73	100.54	103.90
1	AA	928	G	C4-N9-C1'	-6.73	117.75	126.50
1	AA	1064	G	C2-N3-C4	6.73	115.26	111.90
1	AA	1366	C	C4-C5-C6	6.73	120.76	117.40
1	AA	1448	C	C5-C4-N4	-6.73	115.49	120.20
26	BB	158	U	C6-N1-C2	-6.73	116.96	121.00
26	BB	240	C	O4'-C1'-N1	6.73	113.58	108.20
26	BB	689	A	C5-N7-C8	6.73	107.26	103.90
1	AA	1323	G	C1'-O4'-C4'	-6.73	104.52	109.90
2	AB	13	C	N1-C2-N3	-6.73	114.49	119.20
26	BB	1808	A	C5-C6-N1	6.73	121.06	117.70
26	BB	2705	A	C5-N7-C8	-6.73	100.54	103.90
1	AA	720	C	C1'-O4'-C4'	-6.72	104.52	109.90
1	AA	1005	A	C4-C5-N7	-6.72	107.34	110.70
1	AA	1297	G	C6-C5-N7	6.72	134.43	130.40
1	AA	1308	U	O4'-C1'-N1	6.72	113.58	108.20
1	AA	1386	G	C4-C5-N7	-6.72	108.11	110.80
1	AA	1462	C	N3-C4-C5	-6.72	119.21	121.90
4	AD	35	C	O4'-C4'-C3'	6.72	111.48	106.10
25	BA	4	C	C4-C5-C6	6.72	120.76	117.40
26	BB	1176	U	C3'-C2'-C1'	6.72	106.88	101.50
26	BB	1510	G	C8-N9-C4	-6.72	103.71	106.40
26	BB	1711	A	C1'-O4'-C4'	-6.72	104.52	109.90
26	BB	1931	U	C2-N3-C4	-6.72	122.97	127.00
26	BB	2410	G	N7-C8-N9	6.72	116.46	113.10
37	BM	32	TYR	CG-CD2-CE2	6.72	126.68	121.30
38	BN	41	ARG	NE-CZ-NH1	6.72	123.66	120.30
1	AA	319	G	N9-C1'-C2'	-6.72	104.60	112.00
1	AA	823	C	C3'-C2'-C1'	6.72	106.88	101.50
1	AA	895	G	C5'-C4'-O4'	6.72	117.17	109.10
25	BA	101	A	C5-N7-C8	-6.72	100.54	103.90
26	BB	997	G	N3-C4-C5	-6.72	125.24	128.60
26	BB	1473	G	C4'-C3'-C2'	-6.72	95.88	102.60
26	BB	2765	A	C5'-C4'-O4'	6.72	117.17	109.10
1	AA	11	G	N1-C2-N3	6.72	127.93	123.90
1	AA	116	A	C2-N3-C4	6.72	113.96	110.60
1	AA	355	C	C4-C5-C6	6.72	120.76	117.40
1	AA	1127	G	N7-C8-N9	6.72	116.46	113.10
1	AA	1478	U	C3'-C2'-C1'	6.72	106.88	101.50
4	AD	25	U	OP1-P-OP2	-6.72	109.52	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	130	C	C6-N1-C1'	6.72	128.87	120.80
26	BB	751	A	C4-C5-N7	6.72	114.06	110.70
26	BB	1170	C	C6-N1-C2	-6.72	117.61	120.30
26	BB	1577	C	N3-C2-O2	-6.72	117.19	121.90
26	BB	2297	A	C5'-C4'-C3'	-6.72	105.25	116.00
26	BB	2431	U	C3'-C2'-C1'	-6.72	96.12	101.50
26	BB	2887	A	O4'-C1'-N9	6.72	113.58	108.20
1	AA	485	U	P-O3'-C3'	6.72	127.76	119.70
1	AA	535	A	N9-C4-C5	-6.72	103.11	105.80
4	AD	77	A	C6-C5-N7	-6.72	127.60	132.30
26	BB	51	G	O4'-C1'-N9	6.72	113.58	108.20
26	BB	94	A	C5'-C4'-O4'	6.72	117.16	109.10
26	BB	256	A	C8-N9-C4	-6.72	103.11	105.80
26	BB	927	A	C3'-C2'-C1'	6.72	106.88	101.50
26	BB	1041	G	N9-C1'-C2'	-6.72	104.61	112.00
26	BB	1421	G	C4'-C3'-C2'	-6.72	95.88	102.60
26	BB	2176	A	N1-C2-N3	-6.72	125.94	129.30
26	BB	2325	G	C5'-C4'-O4'	6.72	117.16	109.10
26	BB	2342	C	C4'-C3'-C2'	-6.72	95.88	102.60
1	AA	513	C	C2-N3-C4	6.72	123.26	119.90
26	BB	717	C	O4'-C1'-N1	6.72	113.58	108.20
26	BB	1587	G	C5-C6-O6	-6.72	124.57	128.60
26	BB	2071	A	C1'-O4'-C4'	-6.72	104.53	109.90
26	BB	2136	G	C5-C6-N1	6.72	114.86	111.50
26	BB	2678	C	C5-C4-N4	-6.72	115.50	120.20
1	AA	19	A	C8-N9-C4	6.72	108.49	105.80
1	AA	763	G	C1'-O4'-C4'	-6.72	104.53	109.90
1	AA	786	G	N9-C4-C5	6.72	108.09	105.40
25	BA	46	A	N3-C4-C5	6.72	131.50	126.80
26	BB	712	G	N1-C6-O6	6.72	123.93	119.90
26	BB	1412	U	N3-C4-O4	-6.72	114.70	119.40
26	BB	1607	C	C4-C5-C6	-6.72	114.04	117.40
26	BB	2622	U	O4'-C1'-N1	6.72	113.57	108.20
26	BB	2879	A	C4-C5-N7	6.72	114.06	110.70
27	BC	66	PRO	N-CA-CB	6.72	111.36	103.30
1	AA	352	C	C5-C6-N1	-6.71	117.64	121.00
1	AA	1531	A	N9-C4-C5	6.71	108.48	105.80
3	AC	34	U	O4'-C1'-N1	6.71	113.57	108.20
3	AC	45	G	N1-C6-O6	-6.71	115.87	119.90
7	AG	55	ARG	NE-CZ-NH2	-6.71	116.94	120.30
26	BB	103	A	C5'-C4'-O4'	6.71	117.16	109.10
26	BB	249	C	N3-C2-O2	-6.71	117.20	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	289	G	N9-C4-C5	6.71	108.09	105.40
26	BB	503	A	C6-N1-C2	6.71	122.63	118.60
26	BB	770	G	C5-N7-C8	6.71	107.66	104.30
26	BB	1682	G	N3-C4-C5	-6.71	125.24	128.60
26	BB	1879	C	O4'-C1'-N1	6.71	113.57	108.20
26	BB	1995	U	C3'-C2'-C1'	6.71	106.87	101.50
26	BB	2160	C	C5-C4-N4	-6.71	115.50	120.20
26	BB	2388	A	C6-N1-C2	-6.71	114.57	118.60
26	BB	2618	G	N3-C4-N9	6.71	130.03	126.00
26	BB	2671	G	N3-C4-N9	-6.71	121.97	126.00
26	BB	2836	U	C5-C6-N1	-6.71	119.34	122.70
1	AA	365	U	O4'-C1'-N1	6.71	113.57	108.20
1	AA	520	A	N7-C8-N9	-6.71	110.44	113.80
1	AA	1465	A	P-O3'-C3'	6.71	127.75	119.70
1	AA	1506	U	C5-C4-O4	-6.71	121.87	125.90
26	BB	464	U	N1-C2-N3	6.71	118.93	114.90
26	BB	871	U	O4'-C1'-N1	6.71	113.57	108.20
26	BB	2520	C	C5'-C4'-O4'	6.71	117.16	109.10
26	BB	2633	G	N9-C4-C5	6.71	108.08	105.40
1	AA	6	G	N9-C4-C5	6.71	108.08	105.40
1	AA	52	C	C5-C4-N4	6.71	124.90	120.20
1	AA	612	C	C6-N1-C2	6.71	122.98	120.30
1	AA	802	A	N9-C1'-C2'	-6.71	104.62	112.00
1	AA	1093	A	C4-C5-N7	-6.71	107.34	110.70
1	AA	1187	G	N3-C4-C5	-6.71	125.24	128.60
1	AA	1475	G	P-O3'-C3'	6.71	127.75	119.70
26	BB	1	G	C5'-C4'-O4'	6.71	117.15	109.10
26	BB	266	G	C8-N9-C4	-6.71	103.72	106.40
26	BB	283	G	C5-C6-N1	-6.71	108.14	111.50
26	BB	775	G	N1-C2-N3	6.71	127.93	123.90
26	BB	1538	G	N9-C4-C5	-6.71	102.72	105.40
26	BB	2732	G	C4-C5-N7	6.71	113.48	110.80
1	AA	852	G	N3-C4-C5	-6.71	125.25	128.60
1	AA	1058	G	N9-C1'-C2'	-6.71	104.62	112.00
25	BA	48	U	O4'-C1'-N1	6.71	113.57	108.20
26	BB	43	G	O4'-C1'-N9	6.71	113.57	108.20
26	BB	161	A	N1-C2-N3	-6.71	125.94	129.30
26	BB	414	C	C5-C6-N1	6.71	124.36	121.00
26	BB	1192	G	N1-C6-O6	-6.71	115.87	119.90
26	BB	1365	A	C2-N3-C4	6.71	113.95	110.60
48	BX	2	PHE	CB-CG-CD2	-6.71	116.10	120.80
1	AA	1388	C	C6-N1-C2	-6.71	117.62	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	76	A	N1-C6-N6	6.71	122.63	118.60
3	AC	29	G	N3-C4-C5	-6.71	125.25	128.60
26	BB	438	G	N9-C4-C5	6.71	108.08	105.40
26	BB	1410	G	N1-C6-O6	-6.71	115.88	119.90
26	BB	2481	G	C1'-O4'-C4'	-6.71	104.53	109.90
26	BB	2522	U	C2-N3-C4	-6.71	122.97	127.00
1	AA	235	C	N1-C2-O2	6.71	122.92	118.90
1	AA	403	C	C2-N3-C4	6.71	123.25	119.90
1	AA	1295	U	N3-C2-O2	-6.71	117.51	122.20
1	AA	1342	C	O4'-C1'-N1	6.71	113.57	108.20
1	AA	1373	G	N7-C8-N9	6.71	116.45	113.10
1	AA	1477	U	N3-C4-C5	-6.71	110.58	114.60
4	AD	15	G	C5-C6-N1	6.71	114.85	111.50
26	BB	177	G	C4-C5-C6	6.71	122.82	118.80
26	BB	463	G	N1-C2-N3	-6.71	119.88	123.90
26	BB	907	G	C5'-C4'-O4'	6.71	117.15	109.10
26	BB	989	G	O4'-C1'-C2'	-6.71	99.09	105.80
26	BB	1100	C	P-O3'-C3'	6.71	127.75	119.70
26	BB	1136	G	C2-N3-C4	6.71	115.25	111.90
26	BB	1479	G	C5-N7-C8	-6.71	100.95	104.30
1	AA	179	A	C8-N9-C4	-6.71	103.12	105.80
2	AB	69	C	C4'-C3'-C2'	-6.71	95.89	102.60
26	BB	1004	U	O4'-C4'-C3'	6.71	111.46	106.10
26	BB	1388	G	N3-C4-N9	6.71	130.02	126.00
26	BB	2224	G	N3-C2-N2	-6.71	115.21	119.90
1	AA	364	A	C2-N3-C4	-6.70	107.25	110.60
1	AA	1031	C	P-O3'-C3'	6.70	127.74	119.70
26	BB	324	A	N9-C4-C5	6.70	108.48	105.80
26	BB	355	U	N3-C4-C5	-6.70	110.58	114.60
26	BB	539	G	C8-N9-C4	-6.70	103.72	106.40
26	BB	695	G	C5-N7-C8	6.70	107.65	104.30
26	BB	1159	U	N3-C4-O4	-6.70	114.71	119.40
26	BB	1796	U	O4'-C1'-N1	6.70	113.56	108.20
26	BB	2174	C	N1-C1'-C2'	-6.70	104.63	112.00
26	BB	2217	G	C5'-C4'-O4'	6.70	117.14	109.10
26	BB	2322	A	C4-C5-N7	6.70	114.05	110.70
1	AA	242	G	C6-N1-C2	-6.70	121.08	125.10
1	AA	351	G	C5-N7-C8	-6.70	100.95	104.30
26	BB	195	A	N1-C6-N6	-6.70	114.58	118.60
26	BB	342	A	O4'-C1'-N9	6.70	113.56	108.20
26	BB	1323	C	C1'-O4'-C4'	-6.70	104.54	109.90
26	BB	1527	G	N3-C2-N2	-6.70	115.21	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1569	A	C2-N3-C4	-6.70	107.25	110.60
26	BB	1647	U	O4'-C1'-N1	-6.70	102.84	108.20
26	BB	2892	G	N9-C4-C5	6.70	108.08	105.40
27	BC	119	ASP	CB-CG-OD2	-6.70	112.27	118.30
1	AA	131	A	C4-C5-N7	-6.70	107.35	110.70
1	AA	208	U	N3-C2-O2	-6.70	117.51	122.20
1	AA	682	G	N3-C4-N9	6.70	130.02	126.00
1	AA	824	G	C6-C5-N7	-6.70	126.38	130.40
1	AA	932	C	C6-N1-C2	6.70	122.98	120.30
1	AA	1005	A	C8-N9-C4	-6.70	103.12	105.80
1	AA	1013	G	N3-C4-C5	-6.70	125.25	128.60
26	BB	608	A	C2-N3-C4	-6.70	107.25	110.60
26	BB	1238	G	C5-C6-O6	-6.70	124.58	128.60
26	BB	2410	G	O4'-C1'-N9	6.70	113.56	108.20
26	BB	2507	C	C5-C6-N1	6.70	124.35	121.00
1	AA	13	U	C3'-C2'-C1'	-6.70	96.14	101.50
1	AA	91	U	C5-C4-O4	6.70	129.92	125.90
1	AA	309	A	N7-C8-N9	6.70	117.15	113.80
1	AA	1042	A	O4'-C1'-N9	6.70	113.56	108.20
1	AA	1260	G	C4-C5-N7	6.70	113.48	110.80
1	AA	1535	C	O4'-C1'-N1	6.70	113.56	108.20
26	BB	528	A	C4-C5-N7	6.70	114.05	110.70
26	BB	797	G	C4-C5-N7	6.70	113.48	110.80
26	BB	1613	G	N3-C4-N9	6.70	130.02	126.00
39	BO	44	ARG	NE-CZ-NH1	-6.70	116.95	120.30
1	AA	509	A	C8-N9-C4	-6.70	103.12	105.80
26	BB	637	A	N1-C6-N6	6.70	122.62	118.60
26	BB	733	G	P-O3'-C3'	6.70	127.74	119.70
26	BB	1516	G	C6-N1-C2	6.70	129.12	125.10
26	BB	1744	A	C8-N9-C4	6.70	108.48	105.80
26	BB	2398	U	O4'-C1'-N1	6.70	113.56	108.20
26	BB	2868	A	O4'-C4'-C3'	6.70	111.46	106.10
1	AA	332	G	C2-N3-C4	-6.70	108.55	111.90
1	AA	449	G	O4'-C4'-C3'	6.70	111.46	106.10
1	AA	498	A	N1-C2-N3	6.70	132.65	129.30
1	AA	938	A	C2-N3-C4	6.70	113.95	110.60
1	AA	1167	A	N9-C1'-C2'	-6.70	104.64	112.00
1	AA	1327	C	C6-N1-C2	6.70	122.98	120.30
1	AA	1513	A	C5-C6-N6	6.70	129.06	123.70
26	BB	345	A	C2-N3-C4	6.70	113.95	110.60
26	BB	407	G	O4'-C1'-N9	6.70	113.56	108.20
26	BB	945	A	C8-N9-C4	6.70	108.48	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1335	C	C2-N3-C4	6.70	123.25	119.90
26	BB	1591	A	C5'-C4'-C3'	-6.70	105.29	116.00
26	BB	1782	U	N3-C2-O2	-6.70	117.51	122.20
26	BB	2285	C	C6-N1-C2	-6.70	117.62	120.30
58	B7	5	ALA	CB-CA-C	6.70	120.14	110.10
1	AA	53	A	O4'-C1'-N9	-6.69	102.84	108.20
26	BB	1989	G	C4-C5-C6	6.69	122.82	118.80
26	BB	2511	U	C5'-C4'-C3'	-6.69	105.29	116.00
26	BB	2811	G	C6-N1-C2	6.69	129.12	125.10
1	AA	1454	G	N1-C6-O6	6.69	123.92	119.90
1	AA	1487	G	N7-C8-N9	6.69	116.45	113.10
1	AA	1492	A	C8-N9-C4	-6.69	103.12	105.80
6	AF	17	TRP	CD2-CE2-CZ2	6.69	130.33	122.30
26	BB	131	A	C2-N3-C4	6.69	113.95	110.60
26	BB	686	U	O4'-C1'-N1	6.69	113.56	108.20
26	BB	740	C	C5'-C4'-O4'	6.69	117.13	109.10
26	BB	982	C	N1-C2-O2	6.69	122.92	118.90
26	BB	1076	C	C5-C6-N1	-6.69	117.65	121.00
26	BB	1476	U	C4'-C3'-C2'	-6.69	95.91	102.60
26	BB	2008	C	N3-C2-O2	-6.69	117.22	121.90
1	AA	148	G	C6-C5-N7	-6.69	126.39	130.40
1	AA	169	C	O4'-C1'-N1	6.69	113.55	108.20
1	AA	570	G	P-O3'-C3'	6.69	127.73	119.70
1	AA	1531	A	N1-C6-N6	6.69	122.61	118.60
26	BB	107	G	N7-C8-N9	-6.69	109.75	113.10
26	BB	322	A	OP2-P-O3'	6.69	119.92	105.20
26	BB	2723	C	C6-N1-C2	-6.69	117.62	120.30
26	BB	2811	G	C4-C5-N7	-6.69	108.12	110.80
26	BB	2866	U	O4'-C1'-N1	6.69	113.55	108.20
1	AA	809	G	C4-C5-C6	6.69	122.81	118.80
25	BA	69	G	N9-C4-C5	-6.69	102.72	105.40
26	BB	1453	A	P-O3'-C3'	6.69	127.73	119.70
26	BB	2402	U	C5-C6-N1	-6.69	119.36	122.70
1	AA	54	C	N3-C2-O2	6.69	126.58	121.90
1	AA	496	A	O4'-C1'-N9	6.69	113.55	108.20
1	AA	589	U	C5-C6-N1	-6.69	119.36	122.70
1	AA	749	A	C4'-C3'-C2'	-6.69	95.91	102.60
1	AA	756	C	C6-N1-C2	-6.69	117.62	120.30
1	AA	890	G	P-O3'-C3'	6.69	127.72	119.70
1	AA	1197	A	C4-C5-N7	6.69	114.04	110.70
26	BB	1	G	C5-C6-N1	6.69	114.84	111.50
26	BB	1073	A	C4-C5-C6	-6.69	113.66	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1253	A	O4'-C1'-N9	6.69	113.55	108.20
26	BB	1416	G	C5-C6-N1	6.69	114.84	111.50
26	BB	1486	U	C2-N3-C4	-6.69	122.99	127.00
26	BB	2484	G	C6-C5-N7	-6.69	126.39	130.40
26	BB	2486	C	C3'-C2'-C1'	6.69	106.85	101.50
1	AA	500	G	N1-C6-O6	6.69	123.91	119.90
1	AA	611	C	N1-C1'-C2'	-6.69	104.64	112.00
26	BB	1149	G	C4-C5-C6	6.69	122.81	118.80
26	BB	1439	A	C4-C5-N7	-6.69	107.36	110.70
26	BB	2269	G	C6-N1-C2	-6.69	121.09	125.10
29	BE	80	TRP	CB-CG-CD1	-6.69	118.31	127.00
1	AA	675	A	N1-C2-N3	-6.68	125.96	129.30
1	AA	915	A	C1'-O4'-C4'	-6.68	104.55	109.90
25	BA	61	G	C1'-O4'-C4'	6.68	115.25	109.90
26	BB	213	A	C5-N7-C8	-6.68	100.56	103.90
26	BB	1348	C	C5-C6-N1	6.68	124.34	121.00
26	BB	2318	G	N7-C8-N9	-6.68	109.76	113.10
26	BB	2439	A	O4'-C1'-C2'	-6.68	99.11	105.80
1	AA	506	G	N3-C4-C5	-6.68	125.26	128.60
1	AA	530	G	C5-C6-O6	6.68	132.61	128.60
1	AA	691	G	C4'-C3'-C2'	-6.68	95.92	102.60
1	AA	1057	G	C5'-C4'-O4'	6.68	117.12	109.10
1	AA	1101	A	N9-C4-C5	6.68	108.47	105.80
1	AA	1231	G	C2-N3-C4	6.68	115.24	111.90
1	AA	1458	G	N3-C4-C5	-6.68	125.26	128.60
1	AA	1478	U	O4'-C1'-N1	6.68	113.55	108.20
26	BB	51	G	C8-N9-C4	-6.68	103.73	106.40
26	BB	92	U	C4-C5-C6	6.68	123.71	119.70
26	BB	437	U	N1-C2-O2	6.68	127.48	122.80
26	BB	847	U	C4'-C3'-C2'	-6.68	95.92	102.60
26	BB	1270	C	N3-C2-O2	-6.68	117.22	121.90
26	BB	1389	G	O4'-C1'-N9	6.68	113.55	108.20
26	BB	1452	G	N3-C2-N2	6.68	124.58	119.90
26	BB	2368	C	C5-C6-N1	6.68	124.34	121.00
26	BB	2897	U	C4'-C3'-C2'	-6.68	95.92	102.60
1	AA	838	G	N7-C8-N9	6.68	116.44	113.10
1	AA	1211	U	C4'-C3'-C2'	6.68	109.28	102.60
3	AC	32	U	C5'-C4'-O4'	6.68	117.12	109.10
26	BB	579	G	C4-C5-N7	6.68	113.47	110.80
26	BB	2490	G	P-O5'-C5'	6.68	131.59	120.90
26	BB	2600	A	C5-C6-N6	6.68	129.04	123.70
1	AA	15	G	N9-C4-C5	-6.68	102.73	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	387	U	C3'-C2'-C1'	-6.68	96.16	101.50
1	AA	1026	G	N3-C2-N2	6.68	124.58	119.90
1	AA	1211	U	O4'-C1'-N1	6.68	113.54	108.20
1	AA	1463	U	C4-C5-C6	6.68	123.71	119.70
26	BB	368	A	N9-C4-C5	-6.68	103.13	105.80
26	BB	467	G	O4'-C1'-C2'	-6.68	99.12	105.80
26	BB	789	A	C8-N9-C4	6.68	108.47	105.80
26	BB	1053	C	C5'-C4'-O4'	6.68	117.12	109.10
26	BB	1480	C	O4'-C1'-N1	6.68	113.54	108.20
26	BB	1856	U	N3-C2-O2	-6.68	117.52	122.20
26	BB	1863	G	N3-C4-C5	-6.68	125.26	128.60
1	AA	733	G	O3'-P-O5'	-6.68	91.31	104.00
4	AD	28	U	N3-C2-O2	-6.68	117.53	122.20
4	AD	73	A	N3-C4-N9	6.68	132.74	127.40
26	BB	22	C	C6-N1-C2	6.68	122.97	120.30
26	BB	655	A	N1-C2-N3	-6.68	125.96	129.30
26	BB	1027	A	C4-C5-N7	-6.68	107.36	110.70
26	BB	1723	G	N7-C8-N9	6.68	116.44	113.10
26	BB	2746	U	O4'-C1'-N1	6.68	113.54	108.20
1	AA	417	G	N3-C2-N2	-6.68	115.23	119.90
2	AB	27	C	N3-C2-O2	-6.68	117.23	121.90
26	BB	274	C	C1'-O4'-C4'	-6.68	104.56	109.90
26	BB	353	C	C6-N1-C2	6.68	122.97	120.30
26	BB	604	G	N9-C4-C5	6.68	108.07	105.40
26	BB	1508	A	C3'-C2'-C1'	6.68	106.84	101.50
26	BB	1894	C	C5'-C4'-C3'	-6.68	105.32	116.00
26	BB	2357	G	C5-N7-C8	-6.68	100.96	104.30
26	BB	2435	A	N1-C2-N3	-6.68	125.96	129.30
1	AA	641	U	C5-C6-N1	6.67	126.04	122.70
1	AA	1468	A	C4'-C3'-C2'	-6.67	95.93	102.60
26	BB	804	A	C3'-C2'-C1'	6.67	106.84	101.50
26	BB	833	A	N9-C4-C5	6.67	108.47	105.80
26	BB	1099	G	N1-C6-O6	-6.67	115.89	119.90
26	BB	1205	A	N9-C1'-C2'	-6.67	104.66	112.00
26	BB	1389	G	N9-C1'-C2'	-6.67	104.66	112.00
26	BB	1677	A	N3-C4-N9	6.67	132.74	127.40
26	BB	1888	G	C5-C6-N1	6.67	114.84	111.50
26	BB	437	U	C5-C6-N1	-6.67	119.36	122.70
26	BB	684	G	N9-C4-C5	6.67	108.07	105.40
26	BB	1284	A	N1-C2-N3	6.67	132.64	129.30
26	BB	1807	G	N3-C4-C5	-6.67	125.26	128.60
26	BB	2627	G	N9-C4-C5	-6.67	102.73	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	122	G	P-O3'-C3'	6.67	127.71	119.70
1	AA	268	U	C2-N3-C4	-6.67	123.00	127.00
1	AA	358	U	C4-C5-C6	6.67	123.70	119.70
1	AA	371	A	C1'-O4'-C4'	-6.67	104.56	109.90
4	AD	64	G	O4'-C1'-N9	6.67	113.54	108.20
26	BB	165	A	C2-N3-C4	6.67	113.94	110.60
26	BB	612	G	N9-C4-C5	6.67	108.07	105.40
26	BB	1405	U	C3'-C2'-C1'	6.67	106.84	101.50
26	BB	1497	U	C5-C4-O4	6.67	129.90	125.90
26	BB	1540	G	N7-C8-N9	6.67	116.44	113.10
26	BB	2238	G	C6-N1-C2	-6.67	121.10	125.10
26	BB	2345	G	C2-N3-C4	6.67	115.23	111.90
26	BB	2367	G	C8-N9-C4	-6.67	103.73	106.40
33	BI	31	VAL	CG1-CB-CG2	-6.67	100.23	110.90
26	BB	15	G	C5-N7-C8	6.67	107.64	104.30
26	BB	552	U	C5-C6-N1	6.67	126.03	122.70
26	BB	734	A	N9-C4-C5	6.67	108.47	105.80
26	BB	941	A	C4'-C3'-C2'	-6.67	95.93	102.60
26	BB	1377	G	C2-N3-C4	6.67	115.23	111.90
26	BB	1998	A	C8-N9-C4	-6.67	103.13	105.80
26	BB	2455	G	N3-C4-C5	-6.67	125.27	128.60
28	BD	66	PHE	CG-CD1-CE1	-6.67	113.46	120.80
1	AA	35	G	C3'-C2'-C1'	6.67	106.83	101.50
1	AA	98	A	O4'-C1'-N9	6.67	113.54	108.20
1	AA	288	A	N9-C4-C5	6.67	108.47	105.80
1	AA	561	U	C6-N1-C2	-6.67	117.00	121.00
1	AA	675	A	O4'-C1'-N9	6.67	113.53	108.20
1	AA	1078	U	N1-C2-O2	6.67	127.47	122.80
1	AA	1142	G	C5-C6-N1	6.67	114.83	111.50
25	BA	2	G	C5'-C4'-O4'	6.67	117.10	109.10
26	BB	28	A	N9-C1'-C2'	-6.67	104.67	112.00
26	BB	295	G	C2-N3-C4	6.67	115.23	111.90
26	BB	984	A	O3'-P-O5'	-6.67	91.33	104.00
26	BB	1559	U	O4'-C1'-N1	6.67	113.53	108.20
26	BB	1957	C	N3-C2-O2	-6.67	117.23	121.90
48	BX	77	VAL	CA-CB-CG1	6.67	120.90	110.90
1	AA	700	G	O4'-C1'-N9	-6.67	102.87	108.20
1	AA	841	C	C2-N3-C4	6.67	123.23	119.90
1	AA	1178	G	C2-N3-C4	-6.67	108.57	111.90
1	AA	1265	C	O4'-C1'-N1	6.67	113.53	108.20
1	AA	1434	A	C4'-C3'-C2'	-6.67	95.93	102.60
11	AK	48	PHE	CB-CG-CD2	6.67	125.47	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	577	G	N7-C8-N9	6.67	116.43	113.10
26	BB	602	A	N9-C4-C5	6.67	108.47	105.80
26	BB	1849	G	C5-C6-O6	6.67	132.60	128.60
26	BB	2101	A	C3'-C2'-C1'	-6.67	96.17	101.50
26	BB	2742	G	C5-C6-N1	-6.67	108.17	111.50
26	BB	2879	A	N1-C6-N6	6.67	122.60	118.60
1	AA	295	C	C4-C5-C6	-6.67	114.07	117.40
1	AA	1264	U	C5'-C4'-O4'	6.67	117.10	109.10
1	AA	1492	A	N9-C4-C5	6.67	108.47	105.80
2	AB	43	G	N7-C8-N9	6.67	116.43	113.10
4	AD	9	G	C6-C5-N7	-6.67	126.40	130.40
26	BB	376	G	C8-N9-C4	-6.67	103.73	106.40
26	BB	1216	G	C4'-C3'-C2'	-6.67	95.94	102.60
26	BB	1295	C	N1-C2-O2	6.67	122.90	118.90
26	BB	1719	G	C5-C6-O6	-6.67	124.60	128.60
26	BB	2047	C	N3-C4-C5	6.67	124.57	121.90
26	BB	2484	G	C5-C6-N1	-6.67	108.17	111.50
1	AA	375	U	N1-C2-N3	6.66	118.90	114.90
1	AA	416	G	N3-C4-C5	-6.66	125.27	128.60
1	AA	770	C	C2-N3-C4	6.66	123.23	119.90
2	AB	67	G	C5-C6-N1	6.66	114.83	111.50
26	BB	882	G	C6-C5-N7	-6.66	126.40	130.40
26	BB	956	G	C3'-C2'-C1'	6.66	106.83	101.50
26	BB	1280	G	N3-C2-N2	6.66	124.56	119.90
26	BB	1729	U	N1-C2-N3	6.66	118.90	114.90
26	BB	2032	G	N9-C4-C5	6.66	108.07	105.40
26	BB	2133	G	C6-N1-C2	-6.66	121.10	125.10
26	BB	2293	G	N7-C8-N9	6.66	116.43	113.10
26	BB	2490	G	C8-N9-C4	-6.66	103.73	106.40
26	BB	2685	G	N7-C8-N9	6.66	116.43	113.10
1	AA	1144	G	C4-C5-N7	-6.66	108.14	110.80
1	AA	1279	G	N1-C6-O6	-6.66	115.90	119.90
25	BA	3	C	C6-N1-C2	-6.66	117.64	120.30
26	BB	1795	C	C2-N3-C4	6.66	123.23	119.90
1	AA	923	A	N1-C6-N6	6.66	122.60	118.60
1	AA	1244	G	O4'-C1'-N9	6.66	113.53	108.20
2	AB	53	G	C5-N7-C8	-6.66	100.97	104.30
25	BA	50	A	C4-C5-N7	-6.66	107.37	110.70
26	BB	1374	G	C5-C6-N1	6.66	114.83	111.50
26	BB	1402	U	C5-C6-N1	-6.66	119.37	122.70
26	BB	1418	G	O4'-C1'-N9	-6.66	102.87	108.20
26	BB	1493	C	O4'-C1'-N1	6.66	113.53	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1541	C	N3-C2-O2	-6.66	117.24	121.90
26	BB	2005	A	C8-N9-C4	-6.66	103.14	105.80
26	BB	2463	C	N1-C2-O2	6.66	122.90	118.90
26	BB	2785	C	C4-C5-C6	6.66	120.73	117.40
1	AA	1182	G	O4'-C1'-C2'	6.66	113.59	107.60
1	AA	1288	A	C8-N9-C4	-6.66	103.14	105.80
26	BB	263	G	C4-C5-C6	6.66	122.80	118.80
26	BB	388	G	N3-C4-C5	-6.66	125.27	128.60
26	BB	769	U	C5'-C4'-C3'	-6.66	105.34	116.00
26	BB	1055	G	C8-N9-C4	-6.66	103.74	106.40
26	BB	1568	G	C6-N1-C2	-6.66	121.11	125.10
26	BB	1578	U	O4'-C1'-N1	6.66	113.53	108.20
26	BB	1587	G	C4'-C3'-C2'	-6.66	95.94	102.60
26	BB	2142	A	C5-C6-N1	6.66	121.03	117.70
26	BB	2221	G	N3-C2-N2	6.66	124.56	119.90
26	BB	2225	A	C4'-C3'-C2'	-6.66	95.94	102.60
1	AA	949	A	N9-C4-C5	-6.66	103.14	105.80
1	AA	1224	U	C6-N1-C2	-6.66	117.01	121.00
25	BA	3	C	N3-C4-N4	6.66	122.66	118.00
26	BB	768	G	C3'-C2'-C1'	6.66	106.83	101.50
26	BB	784	G	C4-C5-N7	-6.66	108.14	110.80
26	BB	803	U	N3-C4-O4	6.66	124.06	119.40
26	BB	1371	G	C6-N1-C2	-6.66	121.11	125.10
26	BB	1381	G	O4'-C1'-N9	6.66	113.53	108.20
26	BB	1390	U	C2-N3-C4	-6.66	123.01	127.00
26	BB	2315	G	C2-N3-C4	6.66	115.23	111.90
26	BB	2721	A	O4'-C1'-N9	6.66	113.53	108.20
26	BB	2842	G	C2-N3-C4	6.66	115.23	111.90
1	AA	520	A	C5'-C4'-C3'	-6.66	105.35	116.00
1	AA	594	U	N1-C2-O2	-6.66	118.14	122.80
26	BB	144	A	N1-C6-N6	6.66	122.59	118.60
26	BB	231	A	C2'-C3'-O3'	6.66	124.35	113.70
26	BB	979	A	N9-C4-C5	-6.66	103.14	105.80
26	BB	1450	G	N1-C6-O6	-6.66	115.91	119.90
26	BB	1592	C	O4'-C1'-N1	6.66	113.53	108.20
26	BB	1780	A	N9-C4-C5	-6.66	103.14	105.80
26	BB	1991	U	C2-N3-C4	-6.66	123.01	127.00
26	BB	2097	A	N1-C2-N3	6.66	132.63	129.30
26	BB	2134	A	C5-C6-N6	-6.66	118.38	123.70
26	BB	2266	A	C4'-C3'-C2'	-6.66	95.94	102.60
26	BB	2476	A	C5-N7-C8	6.66	107.23	103.90
26	BB	2636	C	C5-C4-N4	-6.66	115.54	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	9	G	N3-C4-C5	-6.65	125.27	128.60
26	BB	1063	G	N9-C4-C5	-6.65	102.74	105.40
26	BB	1150	C	N1-C1'-C2'	-6.65	104.68	112.00
26	BB	1487	U	O4'-C1'-N1	6.65	113.52	108.20
1	AA	458	U	C3'-C2'-C1'	-6.65	96.18	101.50
1	AA	562	U	C5-C4-O4	6.65	129.89	125.90
1	AA	814	A	C4-C5-C6	-6.65	113.67	117.00
1	AA	897	C	C4-C5-C6	-6.65	114.07	117.40
1	AA	972	C	C2-N3-C4	6.65	123.23	119.90
25	BA	114	C	C2-N1-C1'	6.65	126.12	118.80
26	BB	595	C	C3'-C2'-C1'	6.65	106.82	101.50
26	BB	826	U	N3-C4-O4	6.65	124.06	119.40
1	AA	216	U	C2-N3-C4	-6.65	123.01	127.00
1	AA	553	A	C8-N9-C4	-6.65	103.14	105.80
1	AA	887	G	C5'-C4'-C3'	-6.65	105.36	116.00
1	AA	1119	C	C4-C5-C6	-6.65	114.07	117.40
1	AA	1263	C	O4'-C1'-N1	6.65	113.52	108.20
1	AA	1396	A	O4'-C1'-N9	6.65	113.52	108.20
26	BB	314	C	C3'-C2'-C1'	-6.65	96.18	101.50
26	BB	412	A	N9-C4-C5	-6.65	103.14	105.80
26	BB	1137	G	C5-N7-C8	-6.65	100.97	104.30
26	BB	1195	G	C2-N3-C4	6.65	115.22	111.90
26	BB	1436	G	C5-C6-O6	-6.65	124.61	128.60
26	BB	2615	U	C5-C4-O4	-6.65	121.91	125.90
26	BB	2689	U	C2-N3-C4	-6.65	123.01	127.00
26	BB	2708	G	N1-C2-N3	6.65	127.89	123.90
44	BT	34	GLU	OE1-CD-OE2	6.65	131.28	123.30
1	AA	43	C	O4'-C1'-N1	6.65	113.52	108.20
1	AA	1068	G	N9-C4-C5	6.65	108.06	105.40
1	AA	1192	C	C6-N1-C1'	6.65	128.78	120.80
1	AA	1421	G	C2-N3-C4	6.65	115.22	111.90
26	BB	15	G	C3'-C2'-C1'	6.65	106.82	101.50
1	AA	102	G	N3-C4-N9	6.65	129.99	126.00
1	AA	1281	C	N3-C4-C5	-6.65	119.24	121.90
7	AG	69	ARG	NE-CZ-NH1	6.65	123.62	120.30
26	BB	671	C	C5-C4-N4	-6.65	115.55	120.20
26	BB	684	G	C3'-C2'-C1'	6.65	106.82	101.50
26	BB	711	G	C5-C6-N1	6.65	114.82	111.50
26	BB	1075	C	C2-N3-C4	6.65	123.22	119.90
26	BB	1090	A	N1-C2-N3	-6.65	125.98	129.30
26	BB	1701	A	O4'-C1'-N9	-6.65	102.88	108.20
26	BB	1738	G	C6-N1-C2	6.65	129.09	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1807	G	C2'-C3'-O3'	6.65	124.33	113.70
1	AA	191	G	N7-C8-N9	6.65	116.42	113.10
1	AA	224	U	N1-C2-N3	6.65	118.89	114.90
1	AA	817	C	N3-C4-N4	-6.65	113.35	118.00
1	AA	1511	G	C3'-C2'-C1'	6.65	106.82	101.50
26	BB	536	G	N9-C4-C5	6.65	108.06	105.40
1	AA	5	U	C2-N3-C4	-6.64	123.01	127.00
1	AA	572	A	O4'-C1'-N9	-6.64	102.88	108.20
1	AA	719	C	C4-C5-C6	6.64	120.72	117.40
1	AA	729	A	C5'-C4'-O4'	6.64	117.07	109.10
1	AA	1365	G	C5-C6-N1	6.64	114.82	111.50
4	AD	14	A	C5'-C4'-O4'	6.64	117.07	109.10
26	BB	70	G	C4'-C3'-C2'	-6.64	95.95	102.60
26	BB	277	G	C4-C5-N7	-6.64	108.14	110.80
26	BB	435	C	C2-N3-C4	-6.64	116.58	119.90
26	BB	838	C	C6-N1-C2	-6.64	117.64	120.30
26	BB	1432	G	C4-C5-N7	6.64	113.46	110.80
26	BB	1975	G	N3-C4-C5	-6.64	125.28	128.60
26	BB	2212	A	C5-C6-N1	6.64	121.02	117.70
26	BB	2249	U	C3'-C2'-C1'	6.64	106.81	101.50
26	BB	2727	A	C8-N9-C4	-6.64	103.14	105.80
1	AA	44	A	C3'-C2'-C1'	-6.64	96.19	101.50
1	AA	264	C	O5'-C5'-C4'	6.64	124.32	111.70
1	AA	1152	A	P-O3'-C3'	6.64	127.67	119.70
1	AA	1505	G	C4-C5-N7	-6.64	108.14	110.80
1	AA	1523	G	C2-N3-C4	6.64	115.22	111.90
1	AA	1530	G	C4'-C3'-C2'	-6.64	95.96	102.60
4	AD	14	A	N3-C4-C5	-6.64	122.15	126.80
26	BB	664	G	N1-C2-N3	-6.64	119.92	123.90
26	BB	788	A	C2-N3-C4	-6.64	107.28	110.60
26	BB	895	U	O5'-C5'-C4'	-6.64	99.08	111.70
26	BB	1161	C	N3-C2-O2	-6.64	117.25	121.90
26	BB	1163	G	N1-C6-O6	6.64	123.89	119.90
26	BB	1199	U	C5'-C4'-O4'	6.64	117.07	109.10
26	BB	1955	U	C1'-O4'-C4'	-6.64	104.59	109.90
26	BB	2421	G	O4'-C1'-N9	6.64	113.51	108.20
26	BB	2469	A	C8-N9-C4	-6.64	103.14	105.80
26	BB	2651	C	N1-C2-O2	6.64	122.89	118.90
26	BB	2775	G	N9-C4-C5	6.64	108.06	105.40
26	BB	2864	G	N7-C8-N9	-6.64	109.78	113.10
26	BB	306	U	C4-C5-C6	6.64	123.69	119.70
26	BB	905	A	C5-C6-N6	6.64	129.01	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	910	A	C4'-C3'-C2'	-6.64	95.96	102.60
26	BB	1778	U	N1-C1'-C2'	-6.64	104.69	112.00
26	BB	1957	C	N1-C2-O2	6.64	122.89	118.90
26	BB	2665	A	C4-C5-C6	6.64	120.32	117.00
1	AA	635	A	C4-C5-C6	-6.64	113.68	117.00
1	AA	814	A	C5'-C4'-C3'	6.64	126.62	116.00
1	AA	822	U	O4'-C1'-N1	6.64	113.51	108.20
1	AA	848	C	N1-C2-O2	6.64	122.88	118.90
25	BA	44	G	C8-N9-C4	-6.64	103.74	106.40
25	BA	109	A	N9-C1'-C2'	-6.64	104.70	112.00
26	BB	315	G	C8-N9-C4	-6.64	103.74	106.40
26	BB	347	A	C4-C5-C6	-6.64	113.68	117.00
26	BB	642	U	O4'-C1'-N1	6.64	113.51	108.20
26	BB	1141	U	C5-C4-O4	6.64	129.88	125.90
26	BB	1194	A	C4-C5-C6	-6.64	113.68	117.00
26	BB	1415	U	O4'-C1'-N1	6.64	113.51	108.20
26	BB	1558	C	N3-C4-N4	6.64	122.65	118.00
26	BB	1940	U	O4'-C1'-N1	6.64	113.51	108.20
26	BB	2540	C	C2-N3-C4	6.64	123.22	119.90
26	BB	2774	C	C6-N1-C2	6.64	122.96	120.30
39	BO	50	ARG	NE-CZ-NH1	-6.64	116.98	120.30
46	BV	55	VAL	CG1-CB-CG2	-6.64	100.28	110.90
1	AA	805	C	N3-C4-C5	-6.64	119.25	121.90
1	AA	1099	G	N1-C6-O6	6.64	123.88	119.90
26	BB	1567	G	C4'-C3'-C2'	-6.64	95.96	102.60
26	BB	2086	U	N1-C2-O2	-6.64	118.15	122.80
1	AA	58	C	C6-N1-C2	-6.64	117.64	120.30
1	AA	237	G	C5-C6-N1	6.64	114.82	111.50
1	AA	700	G	C8-N9-C4	-6.64	103.75	106.40
1	AA	1353	G	C1'-O4'-C4'	6.64	115.21	109.90
26	BB	138	U	P-O3'-C3'	6.64	127.66	119.70
26	BB	1154	G	C4-C5-C6	6.64	122.78	118.80
26	BB	2145	C	N3-C2-O2	-6.64	117.25	121.90
26	BB	2312	U	P-O5'-C5'	6.64	131.52	120.90
26	BB	2858	C	C1'-O4'-C4'	-6.64	104.59	109.90
26	BB	2903	U	C5-C4-O4	-6.64	121.92	125.90
1	AA	23	C	C5-C4-N4	-6.63	115.56	120.20
1	AA	63	C	N3-C2-O2	-6.63	117.26	121.90
1	AA	86	G	N3-C4-N9	-6.63	122.02	126.00
1	AA	127	G	N1-C6-O6	-6.63	115.92	119.90
1	AA	631	C	C4-C5-C6	6.63	120.72	117.40
1	AA	896	C	N1-C1'-C2'	-6.63	104.70	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	93	G	C4-C5-C6	6.63	122.78	118.80
26	BB	107	G	C3'-C2'-C1'	-6.63	96.19	101.50
26	BB	322	A	C5-C6-N6	6.63	129.01	123.70
26	BB	408	G	N9-C4-C5	-6.63	102.75	105.40
26	BB	1219	U	C2-N3-C4	-6.63	123.02	127.00
26	BB	1574	C	C4-C5-C6	6.63	120.72	117.40
26	BB	1819	A	C5-N7-C8	-6.63	100.58	103.90
26	BB	2363	G	N3-C4-C5	-6.63	125.28	128.60
26	BB	2553	G	O4'-C1'-N9	6.63	113.51	108.20
26	BB	2852	G	C4-C5-C6	6.63	122.78	118.80
1	AA	152	A	C4-C5-N7	-6.63	107.38	110.70
2	AB	13	C	N3-C4-C5	6.63	124.55	121.90
26	BB	391	A	C5-C6-N1	6.63	121.02	117.70
26	BB	1147	A	C6-N1-C2	6.63	122.58	118.60
26	BB	1364	G	N1-C2-N3	6.63	127.88	123.90
26	BB	2345	G	C5'-C4'-C3'	-6.63	105.39	116.00
1	AA	360	G	O4'-C4'-C3'	6.63	111.41	106.10
3	AC	46	C	C6-N1-C2	-6.63	117.65	120.30
26	BB	31	C	C6-N1-C1'	6.63	128.76	120.80
26	BB	68	G	C6-N1-C2	-6.63	121.12	125.10
26	BB	426	C	O4'-C1'-N1	6.63	113.51	108.20
26	BB	1865	U	N1-C2-N3	6.63	118.88	114.90
26	BB	1988	G	C4'-C3'-C2'	-6.63	95.97	102.60
26	BB	2880	C	C5'-C4'-O4'	6.63	117.06	109.10
1	AA	558	G	C5'-C4'-O4'	6.63	117.06	109.10
4	AD	47	A	C2-N3-C4	6.63	113.92	110.60
25	BA	115	A	N1-C2-N3	-6.63	125.98	129.30
26	BB	2349	G	N7-C8-N9	-6.63	109.78	113.10
1	AA	88	U	C2-N3-C4	-6.63	123.02	127.00
1	AA	522	C	O4'-C1'-N1	6.63	113.50	108.20
1	AA	683	G	C6-N1-C2	-6.63	121.12	125.10
1	AA	1298	U	N1-C2-N3	6.63	118.88	114.90
3	AC	53	G	C5-C6-N1	6.63	114.81	111.50
26	BB	501	A	C5-C6-N1	6.63	121.02	117.70
26	BB	1318	U	N1-C2-O2	-6.63	118.16	122.80
26	BB	1757	A	O3'-P-O5'	6.63	116.59	104.00
26	BB	2013	A	C5'-C4'-O4'	6.63	117.05	109.10
26	BB	2264	C	C4-C5-C6	6.63	120.72	117.40
26	BB	2293	G	N1-C2-N3	6.63	127.88	123.90
26	BB	2341	G	C5'-C4'-C3'	-6.63	105.39	116.00
26	BB	2364	C	N3-C4-C5	-6.63	119.25	121.90
26	BB	2626	C	N3-C4-C5	-6.63	119.25	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2710	C	N1-C2-N3	-6.63	114.56	119.20
39	BO	51	ARG	NE-CZ-NH2	6.63	123.61	120.30
1	AA	320	A	C4'-C3'-C2'	-6.63	95.97	102.60
1	AA	539	A	N9-C4-C5	6.63	108.45	105.80
1	AA	619	U	C1'-O4'-C4'	-6.63	104.60	109.90
1	AA	943	U	C4'-C3'-C2'	-6.63	95.97	102.60
1	AA	1493	A	O4'-C1'-N9	-6.63	102.90	108.20
26	BB	340	A	C4-C5-N7	6.63	114.01	110.70
26	BB	515	A	C6-N1-C2	6.63	122.58	118.60
26	BB	2158	A	C4-C5-C6	-6.63	113.69	117.00
26	BB	2745	C	C1'-O4'-C4'	6.63	115.20	109.90
1	AA	141	G	C8-N9-C4	-6.62	103.75	106.40
1	AA	661	G	N9-C1'-C2'	-6.62	104.71	112.00
26	BB	2561	U	C4-C5-C6	6.62	123.67	119.70
26	BB	2778	A	P-O3'-C3'	6.62	127.65	119.70
1	AA	327	A	N7-C8-N9	6.62	117.11	113.80
1	AA	644	U	N1-C2-N3	6.62	118.87	114.90
1	AA	954	G	C5'-C4'-O4'	6.62	117.05	109.10
1	AA	1432	G	N1-C2-N3	-6.62	119.93	123.90
24	AX	2	VAL	CA-CB-CG2	6.62	120.84	110.90
25	BA	101	A	N7-C8-N9	6.62	117.11	113.80
26	BB	220	G	C5-N7-C8	6.62	107.61	104.30
26	BB	980	A	C5-N7-C8	6.62	107.21	103.90
26	BB	1046	A	C5'-C4'-O4'	6.62	117.05	109.10
26	BB	1351	C	C4'-C3'-C2'	-6.62	95.98	102.60
26	BB	1938	A	C8-N9-C4	-6.62	103.15	105.80
1	AA	117	G	C6-C5-N7	-6.62	126.43	130.40
1	AA	442	G	C8-N9-C4	-6.62	103.75	106.40
1	AA	506	G	C4'-C3'-C2'	-6.62	95.98	102.60
1	AA	830	G	C5-N7-C8	-6.62	100.99	104.30
1	AA	985	C	O4'-C1'-N1	6.62	113.50	108.20
1	AA	1094	G	C5-C6-N1	6.62	114.81	111.50
1	AA	1264	U	N1-C2-N3	6.62	118.87	114.90
1	AA	1521	C	C5-C6-N1	6.62	124.31	121.00
1	AA	1538	C	C3'-C2'-C1'	6.62	106.80	101.50
14	AN	111	ASP	CB-CG-OD2	-6.62	112.34	118.30
25	BA	34	A	C4-C5-C6	6.62	120.31	117.00
26	BB	879	G	N1-C6-O6	6.62	123.87	119.90
26	BB	939	G	N9-C1'-C2'	-6.62	104.72	112.00
26	BB	995	C	P-O3'-C3'	6.62	127.65	119.70
26	BB	1064	C	O5'-P-OP2	-6.62	99.74	105.70
26	BB	1068	G	C8-N9-C4	-6.62	103.75	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1075	C	O4'-C1'-N1	6.62	113.50	108.20
26	BB	1335	C	O4'-C1'-N1	6.62	113.50	108.20
26	BB	2371	G	C5-C6-O6	6.62	132.57	128.60
26	BB	2627	G	C2-N3-C4	-6.62	108.59	111.90
1	AA	1159	U	C2-N1-C1'	-6.62	109.76	117.70
26	BB	1157	G	C5-N7-C8	-6.62	100.99	104.30
26	BB	1617	C	C5-C6-N1	-6.62	117.69	121.00
26	BB	157	C	C3'-C2'-C1'	6.62	106.80	101.50
26	BB	493	G	N7-C8-N9	6.62	116.41	113.10
26	BB	663	G	N9-C4-C5	-6.62	102.75	105.40
26	BB	884	U	N1-C2-O2	6.62	127.43	122.80
26	BB	969	G	C8-N9-C1'	6.62	135.60	127.00
26	BB	1245	G	N1-C6-O6	6.62	123.87	119.90
26	BB	2112	G	C2-N3-C4	6.62	115.21	111.90
1	AA	903	G	C5-C6-O6	-6.62	124.63	128.60
1	AA	1022	A	N1-C6-N6	-6.62	114.63	118.60
17	AQ	75	LYS	CB-CA-C	6.62	123.63	110.40
26	BB	1030	C	C6-N1-C2	-6.62	117.65	120.30
26	BB	1821	A	C2-N3-C4	6.62	113.91	110.60
26	BB	2348	U	C2-N3-C4	-6.62	123.03	127.00
1	AA	111	G	C5-C6-N1	6.62	114.81	111.50
1	AA	742	G	C8-N9-C4	-6.62	103.75	106.40
1	AA	904	U	C4-C5-C6	6.62	123.67	119.70
1	AA	1379	G	N3-C4-C5	6.62	131.91	128.60
25	BA	55	U	N1-C2-O2	-6.62	118.17	122.80
26	BB	57	C	N3-C4-C5	-6.62	119.25	121.90
26	BB	367	G	C5'-C4'-O4'	6.62	117.04	109.10
26	BB	735	A	C8-N9-C4	-6.62	103.15	105.80
26	BB	1204	A	O4'-C1'-N9	6.62	113.49	108.20
26	BB	1377	G	C3'-C2'-C1'	-6.62	96.21	101.50
26	BB	1937	A	C3'-C2'-C1'	-6.62	96.21	101.50
26	BB	1992	G	P-O3'-C3'	6.62	127.64	119.70
26	BB	2644	G	C5-N7-C8	-6.62	100.99	104.30
26	BB	2687	U	N1-C2-O2	-6.62	118.17	122.80
26	BB	2861	U	O4'-C1'-N1	6.62	113.49	108.20
26	BB	2877	G	N3-C2-N2	-6.62	115.27	119.90
1	AA	428	G	C5-N7-C8	-6.61	100.99	104.30
1	AA	1396	A	C4-C5-C6	-6.61	113.69	117.00
1	AA	1463	U	C5-C4-O4	-6.61	121.93	125.90
2	AB	50	G	C4-C5-N7	-6.61	108.16	110.80
26	BB	601	C	C5-C6-N1	6.61	124.31	121.00
26	BB	1387	A	P-O3'-C3'	6.61	127.64	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1560	G	N3-C4-N9	6.61	129.97	126.00
26	BB	1753	G	C4-C5-C6	6.61	122.77	118.80
26	BB	2322	A	C6-C5-N7	-6.61	127.67	132.30
1	AA	353	A	C5-C6-N6	6.61	128.99	123.70
26	BB	489	G	C5-N7-C8	-6.61	100.99	104.30
26	BB	1220	G	N7-C8-N9	6.61	116.41	113.10
26	BB	1504	A	C2-N3-C4	6.61	113.91	110.60
1	AA	786	G	C8-N9-C4	-6.61	103.76	106.40
1	AA	1367	C	C4-C5-C6	6.61	120.70	117.40
16	AP	57	ASP	CB-CG-OD2	-6.61	112.35	118.30
26	BB	304	U	C5-C6-N1	-6.61	119.39	122.70
26	BB	1020	A	N7-C8-N9	6.61	117.11	113.80
26	BB	1444	G	C6-C5-N7	-6.61	126.43	130.40
26	BB	1514	G	C8-N9-C4	-6.61	103.76	106.40
26	BB	1696	G	N9-C1'-C2'	-6.61	104.73	112.00
26	BB	2714	G	O4'-C1'-N9	6.61	113.49	108.20
26	BB	2782	G	C6-C5-N7	6.61	134.37	130.40
31	BG	29	ARG	NE-CZ-NH1	-6.61	117.00	120.30
1	AA	450	G	C2-N3-C4	6.61	115.20	111.90
1	AA	1252	A	N1-C2-N3	6.61	132.60	129.30
26	BB	1015	U	C4-C5-C6	-6.61	115.73	119.70
26	BB	1058	U	N3-C2-O2	-6.61	117.57	122.20
26	BB	1388	G	N3-C2-N2	6.61	124.53	119.90
1	AA	707	U	C2-N3-C4	-6.61	123.03	127.00
1	AA	1216	A	C2-N3-C4	-6.61	107.30	110.60
26	BB	14	A	C8-N9-C4	6.61	108.44	105.80
26	BB	285	G	C5'-C4'-C3'	-6.61	105.43	116.00
26	BB	1453	A	N3-C4-C5	-6.61	122.17	126.80
26	BB	2436	G	C5'-C4'-C3'	-6.61	105.43	116.00
26	BB	2513	A	C4-C5-C6	6.61	120.30	117.00
26	BB	2904	U	N3-C2-O2	-6.61	117.58	122.20
1	AA	406	G	C6-C5-N7	-6.61	126.44	130.40
1	AA	594	U	C2-N3-C4	-6.61	123.04	127.00
1	AA	624	C	O4'-C1'-N1	6.61	113.48	108.20
1	AA	1429	A	C5-C6-N6	-6.61	118.42	123.70
3	AC	39	U	P-O3'-C3'	6.61	127.63	119.70
26	BB	355	U	C6-N1-C2	-6.61	117.04	121.00
26	BB	1188	U	C4'-C3'-C2'	-6.61	95.99	102.60
26	BB	1238	G	C5-N7-C8	-6.61	101.00	104.30
26	BB	1482	G	N3-C2-N2	-6.61	115.28	119.90
26	BB	1779	U	C4-C5-C6	6.61	123.66	119.70
26	BB	2471	A	C3'-C2'-C1'	-6.61	96.22	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	381	C	C4-C5-C6	6.60	120.70	117.40
2	AB	63	C	N1-C1'-C2'	-6.60	104.74	112.00
4	AD	20	G	N3-C2-N2	6.60	124.52	119.90
9	AI	78	PHE	CB-CG-CD1	6.60	125.42	120.80
26	BB	1154	G	N3-C4-N9	6.60	129.96	126.00
26	BB	1363	C	C4-C5-C6	-6.60	114.10	117.40
1	AA	29	U	O5'-C5'-C4'	6.60	124.25	111.70
1	AA	357	G	O4'-C1'-N9	6.60	113.48	108.20
1	AA	588	G	C3'-C2'-C1'	6.60	106.78	101.50
1	AA	1292	G	N3-C4-N9	-6.60	122.04	126.00
26	BB	221	A	C6-N1-C2	-6.60	114.64	118.60
26	BB	881	G	C5-N7-C8	-6.60	101.00	104.30
26	BB	1299	G	C2-N3-C4	6.60	115.20	111.90
26	BB	2227	A	C4-C5-C6	-6.60	113.70	117.00
26	BB	2265	U	C5'-C4'-C3'	-6.60	105.44	116.00
26	BB	2481	G	C5-C6-O6	-6.60	124.64	128.60
1	AA	9	G	O4'-C1'-N9	6.60	113.48	108.20
1	AA	427	U	N1-C2-N3	6.60	118.86	114.90
1	AA	1153	G	C4-C5-C6	6.60	122.76	118.80
26	BB	301	G	C3'-C2'-C1'	6.60	106.78	101.50
26	BB	843	G	C4'-C3'-C2'	6.60	109.20	102.60
26	BB	1238	G	O4'-C1'-N9	6.60	113.48	108.20
26	BB	1511	G	C4-C5-N7	6.60	113.44	110.80
26	BB	1695	G	N1-C6-O6	-6.60	115.94	119.90
26	BB	2271	G	N1-C6-O6	-6.60	115.94	119.90
1	AA	891	U	C5'-C4'-O4'	6.60	117.02	109.10
1	AA	1312	G	O4'-C1'-N9	6.60	113.48	108.20
2	AB	1	A	P-O3'-C3'	6.60	127.62	119.70
2	AB	34	C	C2-N1-C1'	6.60	126.06	118.80
21	AU	50	TYR	CB-CG-CD2	-6.60	117.04	121.00
25	BA	41	G	O4'-C1'-N9	6.60	113.48	108.20
26	BB	858	G	N7-C8-N9	6.60	116.40	113.10
26	BB	1247	A	C8-N9-C4	-6.60	103.16	105.80
26	BB	1344	U	C2-N3-C4	-6.60	123.04	127.00
26	BB	1701	A	N1-C6-N6	-6.60	114.64	118.60
45	BU	88	ARG	NH1-CZ-NH2	-6.60	112.14	119.40
1	AA	85	U	O4'-C1'-N1	6.60	113.48	108.20
1	AA	237	G	N1-C6-O6	-6.60	115.94	119.90
1	AA	520	A	C4-C5-N7	-6.60	107.40	110.70
1	AA	957	U	C3'-C2'-C1'	6.60	106.78	101.50
1	AA	1229	A	N1-C6-N6	6.60	122.56	118.60
1	AA	1288	A	N7-C8-N9	6.60	117.10	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	22	G	N3-C4-C5	-6.60	125.30	128.60
26	BB	388	G	C2-N3-C4	6.60	115.20	111.90
26	BB	851	C	C5-C6-N1	6.60	124.30	121.00
26	BB	1323	C	C5-C6-N1	-6.60	117.70	121.00
26	BB	1371	G	N3-C4-N9	-6.60	122.04	126.00
26	BB	1388	G	C2-N3-C4	6.60	115.20	111.90
26	BB	1689	A	C6-C5-N7	-6.60	127.68	132.30
26	BB	2478	A	C5-C6-N6	-6.60	118.42	123.70
26	BB	2513	A	C5-C6-N1	-6.60	114.40	117.70
57	B6	39	ARG	NE-CZ-NH1	-6.60	117.00	120.30
1	AA	102	G	O4'-C4'-C3'	6.60	111.38	106.10
1	AA	344	A	N3-C4-N9	6.60	132.68	127.40
1	AA	1047	G	N7-C8-N9	6.60	116.40	113.10
26	BB	105	C	C6-N1-C2	-6.60	117.66	120.30
26	BB	769	U	C5-C4-O4	6.60	129.86	125.90
26	BB	1367	A	C1'-O4'-C4'	6.60	115.18	109.90
1	AA	22	G	C2-N3-C4	6.59	115.20	111.90
1	AA	60	A	N1-C6-N6	-6.59	114.64	118.60
1	AA	407	U	C4'-C3'-C2'	-6.59	96.00	102.60
26	BB	259	G	C5-C6-O6	6.59	132.56	128.60
26	BB	499	U	N3-C2-O2	-6.59	117.58	122.20
26	BB	1059	G	N3-C4-C5	-6.59	125.30	128.60
26	BB	1449	G	N3-C2-N2	-6.59	115.28	119.90
26	BB	2500	U	N3-C4-O4	-6.59	114.78	119.40
26	BB	2664	G	C3'-C2'-C1'	6.59	106.78	101.50
1	AA	216	U	N1-C2-N3	6.59	118.86	114.90
1	AA	710	G	O4'-C1'-N9	6.59	113.47	108.20
1	AA	1217	C	C5-C4-N4	-6.59	115.58	120.20
26	BB	2253	G	N3-C2-N2	-6.59	115.28	119.90
26	BB	2255	G	C4-C5-N7	-6.59	108.16	110.80
29	BE	82	PHE	CB-CG-CD1	-6.59	116.19	120.80
1	AA	164	G	N1-C2-N2	6.59	122.13	116.20
1	AA	388	G	C4-C5-C6	6.59	122.75	118.80
1	AA	423	G	C4'-C3'-C2'	-6.59	96.01	102.60
1	AA	554	A	C4-C5-N7	-6.59	107.40	110.70
1	AA	668	G	C1'-O4'-C4'	-6.59	104.63	109.90
1	AA	729	A	C1'-O4'-C4'	6.59	115.17	109.90
1	AA	808	C	O4'-C1'-N1	6.59	113.47	108.20
1	AA	1065	U	N1-C2-O2	6.59	127.41	122.80
26	BB	524	G	N9-C1'-C2'	-6.59	104.75	112.00
26	BB	567	U	C5-C4-O4	-6.59	121.94	125.90
26	BB	1090	A	C5-C6-N6	-6.59	118.43	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1982	U	N3-C4-O4	-6.59	114.79	119.40
26	BB	2783	U	O4'-C1'-N1	6.59	113.47	108.20
26	BB	2873	A	C4-C5-C6	6.59	120.30	117.00
1	AA	507	C	C4'-C3'-C2'	-6.59	96.01	102.60
1	AA	579	A	C5-C6-N1	-6.59	114.41	117.70
1	AA	751	U	C5-C6-N1	-6.59	119.41	122.70
1	AA	928	G	C8-N9-C1'	6.59	135.57	127.00
1	AA	1157	A	N9-C4-C5	6.59	108.44	105.80
1	AA	1226	C	N3-C2-O2	-6.59	117.29	121.90
26	BB	11	C	N3-C4-C5	6.59	124.54	121.90
26	BB	337	C	N1-C1'-C2'	-6.59	104.75	112.00
26	BB	380	G	C5-N7-C8	-6.59	101.00	104.30
26	BB	1681	G	C6-C5-N7	6.59	134.35	130.40
26	BB	2015	A	O4'-C1'-N9	6.59	113.47	108.20
26	BB	2031	A	N1-C2-N3	-6.59	126.00	129.30
26	BB	2125	G	O4'-C1'-N9	6.59	113.47	108.20
26	BB	2211	A	C5-C6-N1	-6.59	114.41	117.70
43	BS	101	ASP	CB-CG-OD1	-6.59	112.37	118.30
1	AA	1254	A	C5'-C4'-C3'	6.59	126.54	116.00
1	AA	1410	A	C5-C6-N1	6.59	120.99	117.70
1	AA	1458	G	C5-C6-N1	6.59	114.79	111.50
26	BB	876	C	C3'-C2'-C1'	6.59	106.77	101.50
26	BB	935	C	N1-C1'-C2'	-6.59	104.75	112.00
26	BB	1380	G	N3-C4-C5	-6.59	125.31	128.60
26	BB	2495	G	C4'-C3'-C2'	-6.59	96.01	102.60
1	AA	386	C	N3-C4-C5	-6.59	119.27	121.90
1	AA	1169	A	N1-C2-N3	-6.59	126.01	129.30
1	AA	1513	A	P-O3'-C3'	6.59	127.60	119.70
1	AA	1527	U	O4'-C1'-N1	6.59	113.47	108.20
4	AD	47	A	N1-C6-N6	-6.59	114.65	118.60
9	AI	44	ARG	NE-CZ-NH1	6.59	123.59	120.30
26	BB	307	G	N1-C2-N3	6.59	127.85	123.90
26	BB	556	A	N9-C4-C5	6.59	108.44	105.80
26	BB	597	G	C5-C6-N1	6.59	114.79	111.50
26	BB	870	U	N1-C2-O2	6.59	127.41	122.80
26	BB	911	A	C5-C6-N1	6.59	120.99	117.70
26	BB	916	G	C8-N9-C4	-6.59	103.77	106.40
26	BB	1276	A	C5'-C4'-O4'	6.59	117.00	109.10
26	BB	2328	A	C5-N7-C8	-6.59	100.61	103.90
26	BB	2463	C	C5-C6-N1	-6.59	117.71	121.00
26	BB	2597	G	N3-C2-N2	-6.59	115.29	119.90
26	BB	2617	U	C5-C4-O4	6.59	129.85	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2883	A	C1'-O4'-C4'	6.59	115.17	109.90
2	AB	25	C	C5-C4-N4	6.58	124.81	120.20
26	BB	314	C	C4-C5-C6	6.58	120.69	117.40
26	BB	796	C	O4'-C1'-N1	6.58	113.47	108.20
26	BB	2721	A	P-O3'-C3'	6.58	127.60	119.70
1	AA	56	U	N3-C4-O4	6.58	124.01	119.40
1	AA	142	G	N9-C1'-C2'	-6.58	104.76	112.00
1	AA	182	A	N7-C8-N9	-6.58	110.51	113.80
1	AA	183	C	N3-C2-O2	-6.58	117.29	121.90
1	AA	849	G	C6-N1-C2	-6.58	121.15	125.10
1	AA	861	G	N7-C8-N9	6.58	116.39	113.10
1	AA	1343	G	C8-N9-C4	-6.58	103.77	106.40
25	BA	73	A	C5-C6-N1	6.58	120.99	117.70
26	BB	216	A	C2-N3-C4	6.58	113.89	110.60
26	BB	287	G	C8-N9-C4	-6.58	103.77	106.40
26	BB	783	A	C4'-C3'-C2'	-6.58	96.02	102.60
26	BB	1102	C	C5-C6-N1	6.58	124.29	121.00
26	BB	1734	G	C4-C5-N7	-6.58	108.17	110.80
26	BB	1904	G	O4'-C1'-N9	6.58	113.47	108.20
1	AA	351	G	C2-N3-C4	6.58	115.19	111.90
3	AC	13	A	O4'-C1'-N9	6.58	113.47	108.20
4	AD	4	G	N9-C1'-C2'	-6.58	104.76	112.00
26	BB	1303	G	C5-C6-O6	-6.58	124.65	128.60
26	BB	1594	U	C6-N1-C2	-6.58	117.05	121.00
26	BB	2572	A	N7-C8-N9	6.58	117.09	113.80
26	BB	2854	G	O4'-C1'-N9	6.58	113.47	108.20
1	AA	1131	G	O4'-C1'-N9	6.58	113.46	108.20
1	AA	1253	G	C2'-C3'-O3'	6.58	124.23	113.70
1	AA	1298	U	N1-C1'-C2'	6.58	122.55	114.00
26	BB	198	C	C1'-O4'-C4'	6.58	115.16	109.90
26	BB	1810	A	N7-C8-N9	6.58	117.09	113.80
26	BB	2820	A	C4-C5-C6	6.58	120.29	117.00
1	AA	318	G	C6-N1-C2	6.58	129.05	125.10
1	AA	1209	C	N3-C4-N4	-6.58	113.39	118.00
1	AA	1527	U	N3-C2-O2	-6.58	117.59	122.20
25	BA	92	C	N3-C4-N4	6.58	122.61	118.00
26	BB	270	A	O4'-C1'-N9	6.58	113.46	108.20
26	BB	677	A	C4-C5-N7	-6.58	107.41	110.70
26	BB	1587	G	C4-C5-N7	-6.58	108.17	110.80
26	BB	1617	C	O4'-C1'-C2'	-6.58	99.22	105.80
26	BB	1677	A	C8-N9-C4	-6.58	103.17	105.80
26	BB	1753	G	C6-C5-N7	-6.58	126.45	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2227	A	N1-C2-N3	-6.58	126.01	129.30
26	BB	2259	U	C1'-O4'-C4'	6.58	115.16	109.90
26	BB	2326	C	C1'-O4'-C4'	6.58	115.16	109.90
40	BP	90	ARG	NE-CZ-NH2	-6.58	117.01	120.30
1	AA	364	A	O4'-C1'-N9	6.58	113.46	108.20
26	BB	1132	U	C4-C5-C6	6.58	123.65	119.70
26	BB	1399	C	C5-C4-N4	-6.58	115.60	120.20
26	BB	1411	U	C5'-C4'-O4'	6.58	116.99	109.10
26	BB	1450	G	N9-C1'-C2'	-6.58	104.77	112.00
26	BB	2895	G	N1-C2-N2	6.58	122.12	116.20
1	AA	542	G	C4-C5-C6	6.58	122.75	118.80
1	AA	1452	C	O4'-C4'-C3'	-6.58	97.42	104.00
1	AA	1507	A	C4-C5-C6	-6.58	113.71	117.00
4	AD	10	G	O4'-C4'-C3'	6.58	111.36	106.10
4	AD	75	C	N1-C2-O2	6.58	122.85	118.90
26	BB	188	G	C6-N1-C2	-6.58	121.16	125.10
26	BB	452	G	N9-C4-C5	-6.58	102.77	105.40
26	BB	911	A	C6-C5-N7	6.58	136.90	132.30
26	BB	1927	A	N9-C4-C5	6.58	108.43	105.80
46	BV	77	ARG	NE-CZ-NH2	-6.58	117.01	120.30
1	AA	248	C	C2-N3-C4	6.57	123.19	119.90
1	AA	384	G	O4'-C1'-N9	6.57	113.46	108.20
1	AA	466	A	C4-C5-C6	-6.57	113.71	117.00
1	AA	630	A	C5-C6-N6	6.57	128.96	123.70
1	AA	1320	C	N3-C4-C5	6.57	124.53	121.90
4	AD	65	G	N7-C8-N9	6.57	116.39	113.10
7	AG	110	ARG	NE-CZ-NH1	6.57	123.59	120.30
17	AQ	12	ARG	CD-NE-CZ	6.57	132.80	123.60
25	BA	109	A	C5-C6-N6	-6.57	118.44	123.70
26	BB	59	U	N1-C2-N3	-6.57	110.96	114.90
26	BB	370	G	N3-C2-N2	6.57	124.50	119.90
26	BB	1130	U	C4'-C3'-C2'	-6.57	96.03	102.60
26	BB	1195	G	C5-C6-N1	6.57	114.79	111.50
26	BB	1724	G	C5-C6-O6	-6.57	124.66	128.60
26	BB	2341	G	N3-C4-N9	6.57	129.94	126.00
26	BB	2530	A	C6-C5-N7	6.57	136.90	132.30
1	AA	778	G	N3-C4-C5	-6.57	125.31	128.60
1	AA	1401	G	N3-C4-N9	-6.57	122.06	126.00
1	AA	1509	C	C5'-C4'-O4'	6.57	116.99	109.10
26	BB	1256	G	O4'-C1'-N9	6.57	113.46	108.20
26	BB	2371	G	C2-N3-C4	6.57	115.19	111.90
26	BB	2470	G	C4-C5-N7	6.57	113.43	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	492	C	N1-C2-O2	6.57	122.84	118.90
1	AA	704	A	O4'-C1'-N9	6.57	113.46	108.20
1	AA	930	C	C2-N3-C4	6.57	123.19	119.90
1	AA	938	A	C5-C6-N1	6.57	120.98	117.70
26	BB	217	A	C5'-C4'-O4'	6.57	116.98	109.10
26	BB	740	C	N1-C1'-C2'	6.57	122.54	114.00
26	BB	1241	A	C8-N9-C4	6.57	108.43	105.80
26	BB	1984	G	C4-N9-C1'	-6.57	117.96	126.50
26	BB	2517	C	O4'-C1'-C2'	-6.57	99.23	105.80
1	AA	1542	A	O4'-C1'-N9	-6.57	102.94	108.20
25	BA	34	A	C5-C6-N1	-6.57	114.42	117.70
26	BB	1399	C	N3-C4-N4	6.57	122.60	118.00
26	BB	1524	G	N1-C6-O6	6.57	123.84	119.90
26	BB	2438	U	C6-N1-C2	6.57	124.94	121.00
26	BB	2771	C	C4'-C3'-C2'	-6.57	96.03	102.60
1	AA	312	C	N3-C2-O2	-6.57	117.30	121.90
1	AA	410	G	N1-C2-N2	-6.57	110.29	116.20
1	AA	1509	C	C6-N1-C2	-6.57	117.67	120.30
16	AP	62	PHE	CZ-CE2-CD2	-6.57	112.22	120.10
26	BB	297	G	C6-N1-C2	-6.57	121.16	125.10
26	BB	301	G	N9-C4-C5	6.57	108.03	105.40
26	BB	366	C	N3-C4-C5	-6.57	119.27	121.90
26	BB	2054	A	C6-N1-C2	-6.57	114.66	118.60
26	BB	2254	C	N1-C2-O2	6.57	122.84	118.90
1	AA	72	A	N9-C4-C5	-6.57	103.17	105.80
1	AA	393	A	O4'-C4'-C3'	6.57	111.35	106.10
1	AA	937	A	N7-C8-N9	-6.57	110.52	113.80
1	AA	1422	G	N9-C4-C5	6.57	108.03	105.40
1	AA	1510	C	C4-C5-C6	6.57	120.68	117.40
3	AC	36	U	N3-C2-O2	-6.57	117.61	122.20
26	BB	166	U	N1-C2-O2	6.57	127.40	122.80
26	BB	837	C	O4'-C1'-N1	6.57	113.45	108.20
26	BB	912	C	C5'-C4'-O4'	6.57	116.98	109.10
26	BB	966	G	N3-C4-C5	-6.57	125.32	128.60
26	BB	2088	A	C3'-C2'-C1'	6.57	106.75	101.50
26	BB	2184	A	C4-C5-N7	6.57	113.98	110.70
26	BB	2238	G	O4'-C1'-N9	6.57	113.45	108.20
2	AB	19	G	C4-C5-N7	-6.56	108.17	110.80
4	AD	74	A	C5-N7-C8	6.56	107.18	103.90
26	BB	935	C	P-O3'-C3'	6.56	127.58	119.70
26	BB	1223	G	C5-C6-O6	-6.56	124.66	128.60
26	BB	2091	C	N3-C2-O2	6.56	126.50	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	664	G	C3'-C2'-C1'	-6.56	96.25	101.50
1	AA	968	A	C5-C6-N6	6.56	128.95	123.70
1	AA	1214	C	C5-C6-N1	6.56	124.28	121.00
26	BB	1066	U	C2-N3-C4	-6.56	123.06	127.00
26	BB	1905	C	N3-C4-C5	6.56	124.53	121.90
26	BB	2038	G	C6-N1-C2	-6.56	121.16	125.10
26	BB	2215	C	N1-C2-N3	-6.56	114.61	119.20
26	BB	2389	G	C5-C6-N1	6.56	114.78	111.50
31	BG	162	ASP	CB-CG-OD2	-6.56	112.39	118.30
1	AA	599	C	O4'-C1'-N1	6.56	113.45	108.20
1	AA	644	U	N3-C4-O4	-6.56	114.81	119.40
1	AA	1345	U	N3-C2-O2	-6.56	117.61	122.20
2	AB	28	C	N3-C2-O2	-6.56	117.31	121.90
26	BB	1007	C	C1'-O4'-C4'	-6.56	104.65	109.90
1	AA	577	G	N3-C4-N9	6.56	129.94	126.00
1	AA	1065	U	C5'-C4'-O4'	6.56	116.97	109.10
4	AD	59	A	C1'-O4'-C4'	6.56	115.15	109.90
26	BB	178	G	N9-C1'-C2'	-6.56	104.78	112.00
26	BB	363	G	C3'-C2'-C1'	6.56	106.75	101.50
26	BB	997	G	C6-N1-C2	6.56	129.04	125.10
26	BB	1401	G	C4-C5-C6	6.56	122.74	118.80
26	BB	1506	U	C4'-C3'-C2'	-6.56	96.04	102.60
26	BB	2006	C	C2-N3-C4	6.56	123.18	119.90
26	BB	2710	C	C3'-C2'-C1'	6.56	106.75	101.50
41	BQ	111	ARG	NE-CZ-NH2	-6.56	117.02	120.30
1	AA	159	G	C5-N7-C8	6.56	107.58	104.30
1	AA	525	C	C1'-O4'-C4'	6.56	115.15	109.90
1	AA	1178	G	C4'-C3'-C2'	-6.56	96.04	102.60
10	AJ	79	VAL	CA-CB-CG2	6.56	120.74	110.90
26	BB	438	G	C5-N7-C8	6.56	107.58	104.30
26	BB	850	U	C6-N1-C2	-6.56	117.06	121.00
26	BB	1271	G	N1-C6-O6	6.56	123.83	119.90
26	BB	1387	A	C6-N1-C2	6.56	122.53	118.60
26	BB	1440	U	C3'-C2'-C1'	-6.56	96.25	101.50
26	BB	1757	A	O4'-C1'-N9	6.56	113.45	108.20
26	BB	2071	A	C5-N7-C8	-6.56	100.62	103.90
26	BB	2593	U	C5'-C4'-C3'	-6.56	105.51	116.00
26	BB	2596	U	C4-C5-C6	6.56	123.63	119.70
26	BB	2756	U	C5-C6-N1	-6.56	119.42	122.70
1	AA	509	A	C5-N7-C8	6.56	107.18	103.90
1	AA	1496	C	N1-C2-O2	6.56	122.83	118.90
26	BB	604	G	N3-C4-C5	-6.56	125.32	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	834	G	C4-C5-N7	-6.56	108.18	110.80
26	BB	1201	U	C2-N3-C4	-6.56	123.07	127.00
26	BB	2145	C	C3'-C2'-C1'	-6.56	96.25	101.50
26	BB	2603	G	C3'-C2'-C1'	-6.56	96.25	101.50
26	BB	2755	C	N3-C4-C5	-6.56	119.28	121.90
26	BB	2777	G	N9-C4-C5	6.56	108.02	105.40
1	AA	1403	C	N1-C2-N3	-6.55	114.61	119.20
3	AC	19	A	N7-C8-N9	6.55	117.08	113.80
25	BA	83	G	C4-C5-N7	-6.55	108.18	110.80
26	BB	885	C	P-O5'-C5'	6.55	131.39	120.90
26	BB	1403	A	N1-C2-N3	-6.55	126.02	129.30
26	BB	1689	A	C5-C6-N6	6.55	128.94	123.70
1	AA	175	C	N1-C2-O2	6.55	122.83	118.90
1	AA	773	G	C4-C5-C6	6.55	122.73	118.80
4	AD	62	C	N3-C2-O2	-6.55	117.31	121.90
25	BA	105	G	C4-N9-C1'	-6.55	117.98	126.50
26	BB	824	U	C4'-C3'-C2'	-6.55	96.05	102.60
26	BB	874	G	C5-N7-C8	6.55	107.58	104.30
26	BB	988	A	P-O3'-C3'	6.55	127.56	119.70
26	BB	1512	C	N3-C4-C5	-6.55	119.28	121.90
26	BB	1935	G	C3'-C2'-C1'	-6.55	96.26	101.50
26	BB	2549	G	C5'-C4'-O4'	6.55	116.96	109.10
1	AA	199	A	C4-C5-C6	-6.55	113.72	117.00
1	AA	282	A	N9-C4-C5	6.55	108.42	105.80
1	AA	749	A	N1-C6-N6	-6.55	114.67	118.60
1	AA	1362	A	N1-C6-N6	6.55	122.53	118.60
26	BB	203	A	C8-N9-C4	-6.55	103.18	105.80
26	BB	310	A	O4'-C1'-N9	6.55	113.44	108.20
26	BB	1308	A	C4-C5-N7	-6.55	107.42	110.70
26	BB	2178	C	C6-N1-C2	-6.55	117.68	120.30
26	BB	2579	C	C5'-C4'-O4'	6.55	116.96	109.10
37	BM	49	ARG	NE-CZ-NH1	6.55	123.58	120.30
1	AA	304	U	C3'-C2'-C1'	6.55	106.74	101.50
1	AA	1442	G	C6-C5-N7	-6.55	126.47	130.40
26	BB	125	A	C5-C6-N1	6.55	120.97	117.70
26	BB	455	C	N1-C2-O2	6.55	122.83	118.90
26	BB	1498	C	O4'-C4'-C3'	6.55	111.34	106.10
26	BB	1617	C	N1-C1'-C2'	6.55	122.51	114.00
26	BB	2046	G	N3-C4-N9	6.55	129.93	126.00
26	BB	2576	G	C4-C5-N7	-6.55	108.18	110.80
1	AA	829	G	N7-C8-N9	6.55	116.37	113.10
1	AA	1247	U	C2-N3-C4	-6.55	123.07	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	73	G	O4'-C1'-C2'	-6.55	99.25	105.80
26	BB	122	G	N1-C2-N2	6.55	122.09	116.20
26	BB	296	U	C5'-C4'-O4'	6.55	116.96	109.10
26	BB	457	A	C8-N9-C4	-6.55	103.18	105.80
43	BS	2	ARG	NE-CZ-NH2	6.55	123.57	120.30
1	AA	1166	G	N3-C4-N9	-6.55	122.07	126.00
2	AB	29	G	N1-C2-N3	-6.55	119.97	123.90
2	AB	67	G	C5-C6-O6	-6.55	124.67	128.60
25	BA	94	A	O4'-C4'-C3'	6.55	111.34	106.10
26	BB	185	G	N3-C4-C5	-6.55	125.33	128.60
26	BB	287	G	C6-N1-C2	-6.55	121.17	125.10
26	BB	768	G	N1-C6-O6	6.55	123.83	119.90
26	BB	997	G	N3-C2-N2	6.55	124.48	119.90
26	BB	1778	U	C5-C4-O4	-6.55	121.97	125.90
26	BB	1947	C	N3-C4-N4	6.55	122.58	118.00
26	BB	2752	C	N3-C4-C5	6.55	124.52	121.90
26	BB	711	G	C2-N3-C4	6.54	115.17	111.90
26	BB	919	U	C4-C5-C6	6.54	123.63	119.70
26	BB	1063	G	C4'-C3'-C2'	-6.54	96.06	102.60
26	BB	1882	U	C4-C5-C6	6.54	123.63	119.70
1	AA	1290	G	N9-C4-C5	-6.54	102.78	105.40
2	AB	25	C	C5-C6-N1	6.54	124.27	121.00
26	BB	1148	U	C6-N1-C2	-6.54	117.07	121.00
26	BB	1861	G	N3-C4-N9	6.54	129.93	126.00
26	BB	2170	A	N1-C6-N6	6.54	122.53	118.60
1	AA	53	A	N3-C4-C5	-6.54	122.22	126.80
1	AA	648	A	N1-C2-N3	6.54	132.57	129.30
1	AA	812	G	C2-N3-C4	-6.54	108.63	111.90
1	AA	1011	C	C2-N3-C4	-6.54	116.63	119.90
1	AA	1094	G	N3-C4-C5	-6.54	125.33	128.60
1	AA	1529	G	N9-C4-C5	6.54	108.02	105.40
26	BB	520	G	C8-N9-C4	-6.54	103.78	106.40
26	BB	1998	A	C5'-C4'-O4'	6.54	116.95	109.10
26	BB	2081	U	N1-C2-O2	6.54	127.38	122.80
26	BB	2489	U	C6-N1-C2	-6.54	117.08	121.00
26	BB	2577	A	C4'-C3'-C2'	-6.54	96.06	102.60
28	BD	12	ARG	NE-CZ-NH2	6.54	123.57	120.30
1	AA	52	C	C4-C5-C6	6.54	120.67	117.40
1	AA	190	A	O4'-C1'-N9	6.54	113.43	108.20
1	AA	648	A	N9-C4-C5	-6.54	103.18	105.80
1	AA	776	G	C5-C6-O6	-6.54	124.68	128.60
1	AA	1401	G	N9-C4-C5	6.54	108.02	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	28	C	O4'-C4'-C3'	6.54	111.33	106.10
26	BB	523	C	N3-C4-N4	6.54	122.58	118.00
26	BB	1105	U	C4-C5-C6	6.54	123.62	119.70
26	BB	1510	G	C1'-O4'-C4'	6.54	115.13	109.90
26	BB	1571	A	C5'-C4'-O4'	6.54	116.95	109.10
1	AA	144	G	N9-C4-C5	6.54	108.02	105.40
1	AA	148	G	C4-C5-N7	-6.54	108.19	110.80
1	AA	166	U	C2-N3-C4	-6.54	123.08	127.00
1	AA	221	C	C2-N3-C4	6.54	123.17	119.90
1	AA	312	C	N1-C2-O2	6.54	122.82	118.90
1	AA	370	C	N3-C2-O2	-6.54	117.32	121.90
1	AA	478	A	N1-C2-N3	-6.54	126.03	129.30
1	AA	600	A	C8-N9-C4	-6.54	103.19	105.80
1	AA	746	A	C5-C6-N6	6.54	128.93	123.70
1	AA	836	G	C5-C6-O6	6.54	132.52	128.60
1	AA	1181	G	C6-N1-C2	-6.54	121.18	125.10
1	AA	1228	C	O4'-C1'-N1	6.54	113.43	108.20
4	AD	2	G	O4'-C4'-C3'	6.54	111.33	106.10
25	BA	76	G	C6-C5-N7	-6.54	126.48	130.40
26	BB	65	U	C1'-O4'-C4'	-6.54	104.67	109.90
26	BB	247	G	C1'-O4'-C4'	6.54	115.13	109.90
26	BB	841	G	N1-C6-O6	-6.54	115.98	119.90
26	BB	891	G	O5'-P-OP2	-6.54	99.81	105.70
26	BB	1353	A	O4'-C1'-N9	-6.54	102.97	108.20
26	BB	1643	G	C2-N3-C4	6.54	115.17	111.90
26	BB	1872	A	O4'-C1'-N9	-6.54	102.97	108.20
26	BB	1993	U	C5'-C4'-O4'	-6.54	101.25	109.10
26	BB	2290	G	N3-C4-N9	-6.54	122.08	126.00
26	BB	2330	G	C3'-C2'-C1'	-6.54	96.27	101.50
26	BB	2469	A	C6-N1-C2	6.54	122.52	118.60
26	BB	2782	G	N1-C2-N3	-6.54	119.98	123.90
1	AA	108	G	N1-C2-N2	6.54	122.08	116.20
1	AA	112	G	C6-N1-C2	-6.54	121.18	125.10
1	AA	829	G	C6-C5-N7	-6.54	126.48	130.40
26	BB	43	G	C4-C5-N7	6.54	113.42	110.80
26	BB	297	G	C8-N9-C4	-6.54	103.78	106.40
26	BB	1703	G	C6-C5-N7	-6.54	126.48	130.40
1	AA	793	U	C3'-C2'-C1'	-6.54	96.27	101.50
1	AA	960	U	C4-C5-C6	6.54	123.62	119.70
1	AA	972	C	C2-N1-C1'	-6.54	111.61	118.80
1	AA	1086	U	N1-C2-N3	6.54	118.82	114.90
1	AA	1533	C	N3-C4-N4	6.54	122.58	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	AK	46	GLU	OE1-CD-OE2	6.54	131.14	123.30
26	BB	129	C	N1-C2-N3	-6.54	114.62	119.20
26	BB	796	C	C5-C4-N4	-6.54	115.63	120.20
26	BB	2536	G	C6-N1-C2	-6.54	121.18	125.10
1	AA	401	C	C1'-O4'-C4'	-6.53	104.67	109.90
1	AA	442	G	N1-C6-O6	6.53	123.82	119.90
1	AA	789	U	N3-C4-O4	6.53	123.97	119.40
1	AA	1179	A	N1-C6-N6	6.53	122.52	118.60
1	AA	1211	U	C1'-O4'-C4'	-6.53	104.67	109.90
1	AA	1397	C	C3'-C2'-C1'	6.53	106.73	101.50
22	AV	31	ARG	NE-CZ-NH1	6.53	123.57	120.30
26	BB	177	G	C2-N3-C4	-6.53	108.63	111.90
26	BB	615	U	O4'-C1'-C2'	-6.53	99.27	105.80
26	BB	668	A	C5-C6-N1	6.53	120.97	117.70
26	BB	1055	G	C6-N1-C2	-6.53	121.18	125.10
26	BB	1099	G	C6-N1-C2	-6.53	121.18	125.10
26	BB	1200	C	N3-C2-O2	-6.53	117.33	121.90
26	BB	1209	U	C6-N1-C2	-6.53	117.08	121.00
26	BB	1801	A	C5-N7-C8	-6.53	100.63	103.90
26	BB	1840	G	C5'-C4'-C3'	-6.53	105.55	116.00
26	BB	2524	G	C2-N3-C4	6.53	115.17	111.90
1	AA	122	G	N9-C4-C5	6.53	108.01	105.40
1	AA	255	G	O4'-C1'-C2'	-6.53	99.27	105.80
26	BB	1090	A	C2-N3-C4	6.53	113.87	110.60
26	BB	1821	A	C3'-C2'-C1'	-6.53	96.27	101.50
39	BO	40	ARG	NE-CZ-NH1	-6.53	117.03	120.30
1	AA	58	C	N1-C2-O2	6.53	122.82	118.90
1	AA	120	A	N1-C6-N6	-6.53	114.68	118.60
1	AA	264	C	N3-C4-C5	-6.53	119.29	121.90
1	AA	298	A	C2-N3-C4	6.53	113.86	110.60
2	AB	42	G	C8-N9-C4	-6.53	103.79	106.40
26	BB	27	G	C4-C5-C6	6.53	122.72	118.80
26	BB	690	G	C6-C5-N7	-6.53	126.48	130.40
26	BB	794	A	N9-C4-C5	-6.53	103.19	105.80
26	BB	1582	C	O4'-C1'-C2'	6.53	113.48	107.60
26	BB	1726	C	C4-C5-C6	6.53	120.67	117.40
26	BB	2154	A	C2-N3-C4	-6.53	107.33	110.60
26	BB	2748	A	N9-C4-C5	6.53	108.41	105.80
1	AA	473	U	N3-C2-O2	-6.53	117.63	122.20
1	AA	852	G	C5-C6-O6	-6.53	124.68	128.60
1	AA	914	A	N1-C6-N6	-6.53	114.68	118.60
26	BB	2821	A	C5'-C4'-C3'	-6.53	105.55	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	847	G	O4'-C4'-C3'	6.53	111.32	106.10
1	AA	925	G	N1-C2-N3	-6.53	119.98	123.90
4	AD	49	C	C5'-C4'-C3'	-6.53	105.56	116.00
26	BB	1085	A	C8-N9-C4	6.53	108.41	105.80
26	BB	1614	A	C6-C5-N7	-6.53	127.73	132.30
26	BB	1625	C	N3-C4-N4	6.53	122.57	118.00
1	AA	79	G	N3-C4-C5	-6.53	125.34	128.60
1	AA	311	C	C6-N1-C2	-6.53	117.69	120.30
26	BB	160	A	C5'-C4'-C3'	-6.53	105.56	116.00
26	BB	273	G	C6-N1-C2	-6.53	121.19	125.10
26	BB	1168	G	N3-C4-N9	6.53	129.91	126.00
26	BB	1342	A	N7-C8-N9	-6.53	110.54	113.80
26	BB	1701	A	C1'-O4'-C4'	6.53	115.12	109.90
26	BB	2842	G	C5-C6-N1	6.53	114.76	111.50
30	BF	86	ALA	CB-CA-C	6.53	119.89	110.10
26	BB	2596	U	N3-C4-O4	6.52	123.97	119.40
1	AA	299	G	C5-C6-O6	-6.52	124.69	128.60
1	AA	1012	A	C8-N9-C4	-6.52	103.19	105.80
26	BB	856	G	C4-C5-C6	6.52	122.71	118.80
26	BB	1359	A	C2-N3-C4	6.52	113.86	110.60
26	BB	1791	A	C8-N9-C4	-6.52	103.19	105.80
26	BB	1953	A	N9-C4-C5	6.52	108.41	105.80
26	BB	2120	G	C5'-C4'-O4'	6.52	116.93	109.10
26	BB	2371	G	C6-C5-N7	-6.52	126.49	130.40
26	BB	2463	C	C1'-O4'-C4'	6.52	115.12	109.90
26	BB	2785	C	N3-C4-C5	-6.52	119.29	121.90
1	AA	581	G	C8-N9-C1'	6.52	135.48	127.00
25	BA	116	G	C3'-C2'-C1'	-6.52	96.28	101.50
26	BB	1	G	C4-C5-N7	-6.52	108.19	110.80
26	BB	293	U	N1-C2-O2	6.52	127.36	122.80
26	BB	497	A	C8-N9-C4	-6.52	103.19	105.80
26	BB	1227	G	C5-C6-O6	-6.52	124.69	128.60
1	AA	326	G	N3-C4-C5	-6.52	125.34	128.60
1	AA	1329	A	N9-C4-C5	6.52	108.41	105.80
4	AD	18	U	N1-C2-N3	6.52	118.81	114.90
11	AK	64	TYR	CB-CG-CD1	-6.52	117.09	121.00
26	BB	775	G	C4'-C3'-C2'	-6.52	96.08	102.60
26	BB	1080	A	P-O5'-C5'	6.52	131.33	120.90
26	BB	1133	A	C5-C6-N6	-6.52	118.48	123.70
26	BB	1542	U	C4'-C3'-C2'	-6.52	96.08	102.60
26	BB	1573	G	C4-C5-N7	-6.52	108.19	110.80
26	BB	1960	A	P-O3'-C3'	6.52	127.52	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	85	U	C2-N1-C1'	6.52	125.52	117.70
1	AA	435	A	O4'-C1'-N9	6.52	113.42	108.20
1	AA	511	C	C3'-C2'-C1'	-6.52	96.29	101.50
1	AA	528	C	C5'-C4'-O4'	6.52	116.92	109.10
1	AA	598	U	O5'-P-OP2	-6.52	99.83	105.70
1	AA	621	A	N3-C4-C5	-6.52	122.24	126.80
1	AA	900	A	C1'-O4'-C4'	6.52	115.11	109.90
15	AO	60	PHE	CB-CG-CD2	6.52	125.36	120.80
26	BB	202	U	N3-C2-O2	-6.52	117.64	122.20
26	BB	2072	C	C6-N1-C2	6.52	122.91	120.30
26	BB	2166	U	N3-C2-O2	-6.52	117.64	122.20
26	BB	2388	A	C6-C5-N7	6.52	136.86	132.30
1	AA	346	G	C4-C5-N7	6.52	113.41	110.80
26	BB	408	G	C5-N7-C8	-6.52	101.04	104.30
26	BB	1569	A	C5'-C4'-O4'	6.52	116.92	109.10
26	BB	1796	U	C5'-C4'-O4'	6.52	116.92	109.10
26	BB	1908	C	N3-C4-C5	-6.52	119.29	121.90
1	AA	434	U	C2-N3-C4	-6.51	123.09	127.00
1	AA	926	G	C4-C5-C6	6.51	122.71	118.80
1	AA	1185	G	C4-C5-N7	-6.51	108.19	110.80
1	AA	1457	G	N1-C6-O6	6.51	123.81	119.90
2	AB	25	C	N1-C2-O2	6.51	122.81	118.90
3	AC	54	U	C6-N1-C2	-6.51	117.09	121.00
26	BB	110	G	C5'-C4'-O4'	6.51	116.92	109.10
26	BB	470	A	N1-C6-N6	-6.51	114.69	118.60
26	BB	971	G	C8-N9-C4	-6.51	103.79	106.40
26	BB	984	A	O4'-C1'-N9	6.51	113.41	108.20
26	BB	1046	A	C5-N7-C8	-6.51	100.64	103.90
26	BB	2073	C	C5-C4-N4	-6.51	115.64	120.20
1	AA	47	C	C5'-C4'-C3'	-6.51	105.58	116.00
1	AA	852	G	O4'-C1'-N9	6.51	113.41	108.20
26	BB	199	A	C4'-C3'-C2'	6.51	109.11	102.60
26	BB	1606	C	C3'-C2'-C1'	6.51	106.71	101.50
26	BB	1914	C	N1-C2-O2	6.51	122.81	118.90
26	BB	2760	C	C5-C6-N1	6.51	124.26	121.00
1	AA	573	A	C1'-O4'-C4'	-6.51	104.69	109.90
1	AA	1217	C	N3-C2-O2	-6.51	117.34	121.90
2	AB	76	A	C3'-C2'-C1'	6.51	106.71	101.50
26	BB	489	G	C4'-C3'-C2'	6.51	109.11	102.60
26	BB	916	G	C4-C5-N7	6.51	113.40	110.80
26	BB	1471	G	C6-C5-N7	6.51	134.31	130.40
26	BB	1623	G	C5-C6-N1	6.51	114.76	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2284	A	C5'-C4'-O4'	6.51	116.91	109.10
26	BB	2629	U	O4'-C1'-N1	6.51	113.41	108.20
30	BF	67	ARG	NE-CZ-NH1	6.51	123.56	120.30
1	AA	234	C	N3-C4-C5	-6.51	119.30	121.90
1	AA	845	A	C5-C6-N1	6.51	120.95	117.70
1	AA	1392	G	C4-C5-C6	6.51	122.70	118.80
4	AD	1	C	N1-C2-O2	6.51	122.81	118.90
26	BB	192	C	C5-C6-N1	-6.51	117.75	121.00
26	BB	384	A	C4'-C3'-C2'	-6.51	96.09	102.60
26	BB	1062	G	C2-N3-C4	6.51	115.16	111.90
26	BB	1292	G	O4'-C4'-C3'	6.51	111.31	106.10
26	BB	1362	C	C5'-C4'-O4'	6.51	116.91	109.10
26	BB	1383	A	C4-C5-C6	-6.51	113.75	117.00
26	BB	1817	G	C5-N7-C8	6.51	107.55	104.30
26	BB	2339	C	C5-C4-N4	6.51	124.76	120.20
26	BB	2805	C	O4'-C1'-N1	6.51	113.41	108.20
1	AA	1053	G	C5-C6-N1	6.51	114.75	111.50
1	AA	149	A	C8-N9-C4	6.51	108.40	105.80
1	AA	724	G	N3-C4-N9	6.51	129.90	126.00
1	AA	817	C	O4'-C1'-N1	6.51	113.40	108.20
1	AA	1088	G	O4'-C1'-N9	6.51	113.40	108.20
5	AE	56	LEU	CB-CG-CD1	6.51	122.06	111.00
26	BB	972	A	O4'-C1'-N9	6.51	113.41	108.20
26	BB	1115	G	N7-C8-N9	6.51	116.35	113.10
26	BB	2508	G	C8-N9-C4	-6.51	103.80	106.40
26	BB	2724	U	N1-C1'-C2'	-6.51	104.84	112.00
26	BB	2733	A	C8-N9-C4	6.51	108.40	105.80
1	AA	648	A	C5-C6-N1	6.50	120.95	117.70
1	AA	860	A	C4-C5-N7	-6.50	107.45	110.70
26	BB	221	A	C5-C6-N6	-6.50	118.50	123.70
26	BB	349	U	O4'-C1'-N1	6.50	113.40	108.20
26	BB	490	C	C2-N3-C4	6.50	123.15	119.90
26	BB	1780	A	C4'-C3'-C2'	-6.50	96.09	102.60
26	BB	2553	G	P-O3'-C3'	6.50	127.51	119.70
1	AA	10	A	O4'-C1'-N9	6.50	113.40	108.20
1	AA	282	A	C2-N3-C4	6.50	113.85	110.60
1	AA	654	G	C4-C5-N7	-6.50	108.20	110.80
1	AA	984	C	P-O3'-C3'	6.50	127.50	119.70
1	AA	1246	A	C2-N3-C4	6.50	113.85	110.60
1	AA	1271	A	C6-N1-C2	-6.50	114.70	118.60
2	AB	15	A	N1-C2-N3	-6.50	126.05	129.30
4	AD	10	G	C5'-C4'-O4'	6.50	116.90	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	AJ	1	PRO	CA-N-CD	-6.50	102.39	111.50
26	BB	216	A	N1-C6-N6	-6.50	114.70	118.60
26	BB	245	G	C5-N7-C8	-6.50	101.05	104.30
26	BB	629	G	C2-N3-C4	6.50	115.15	111.90
26	BB	936	A	C4'-C3'-C2'	-6.50	96.10	102.60
26	BB	1331	G	N3-C4-C5	-6.50	125.35	128.60
26	BB	1897	G	O4'-C1'-N9	6.50	113.40	108.20
26	BB	2014	A	N3-C4-C5	-6.50	122.25	126.80
26	BB	2072	C	C5-C6-N1	-6.50	117.75	121.00
26	BB	2164	C	N3-C2-O2	-6.50	117.35	121.90
43	BS	114	ALA	N-CA-CB	6.50	119.20	110.10
1	AA	1065	U	C3'-C2'-C1'	6.50	106.70	101.50
1	AA	1141	C	O4'-C1'-N1	6.50	113.40	108.20
1	AA	1395	C	C5-C4-N4	-6.50	115.65	120.20
4	AD	2	G	C5-C6-N1	-6.50	108.25	111.50
26	BB	371	A	N9-C4-C5	-6.50	103.20	105.80
26	BB	514	A	N3-C4-N9	6.50	132.60	127.40
26	BB	1675	C	C5-C6-N1	6.50	124.25	121.00
26	BB	1683	U	P-O3'-C3'	6.50	127.50	119.70
26	BB	2014	A	C4-C5-C6	6.50	120.25	117.00
26	BB	2756	U	C6-N1-C2	6.50	124.90	121.00
1	AA	41	G	C2-N3-C4	6.50	115.15	111.90
1	AA	1313	U	C4-C5-C6	6.50	123.60	119.70
26	BB	39	G	C8-N9-C4	6.50	109.00	106.40
26	BB	2145	C	C5-C6-N1	-6.50	117.75	121.00
1	AA	158	G	N9-C4-C5	6.50	108.00	105.40
1	AA	785	G	O4'-C1'-N9	6.50	113.40	108.20
25	BA	105	G	C4'-C3'-C2'	-6.50	96.10	102.60
26	BB	379	G	N3-C4-N9	-6.50	122.10	126.00
26	BB	660	C	C5-C4-N4	-6.50	115.65	120.20
26	BB	1510	G	C3'-C2'-C1'	6.50	106.70	101.50
26	BB	1910	G	C5'-C4'-O4'	6.50	116.90	109.10
26	BB	1947	C	C4-C5-C6	6.50	120.65	117.40
26	BB	2713	U	O4'-C1'-N1	6.50	113.40	108.20
26	BB	2801	G	O4'-C1'-N9	6.50	113.40	108.20
1	AA	399	G	C6-N1-C2	-6.50	121.20	125.10
1	AA	1458	G	C4-C5-N7	-6.50	108.20	110.80
22	AV	4	LEU	CB-CG-CD2	6.50	122.04	111.00
26	BB	73	A	C5-N7-C8	-6.50	100.65	103.90
26	BB	100	U	N1-C2-N3	6.50	118.80	114.90
26	BB	548	G	C1'-O4'-C4'	-6.50	104.70	109.90
26	BB	1020	A	N3-C4-C5	-6.50	122.25	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1953	A	O4'-C1'-N9	6.50	113.40	108.20
26	BB	1997	C	C5-C6-N1	6.50	124.25	121.00
26	BB	2280	G	C4'-C3'-C2'	-6.50	96.10	102.60
26	BB	2653	U	C5-C4-O4	-6.50	122.00	125.90
1	AA	111	G	C8-N9-C4	-6.50	103.80	106.40
1	AA	127	G	C6-N1-C2	-6.50	121.20	125.10
4	AD	34	U	C5'-C4'-O4'	6.50	116.89	109.10
26	BB	296	U	C2-N3-C4	-6.50	123.10	127.00
26	BB	297	G	O4'-C1'-N9	6.50	113.40	108.20
26	BB	472	A	C2-N3-C4	6.50	113.85	110.60
26	BB	1937	A	C1'-O4'-C4'	-6.50	104.70	109.90
26	BB	2811	G	N9-C4-C5	6.50	108.00	105.40
1	AA	481	G	C4'-C3'-C2'	-6.49	96.11	102.60
1	AA	850	U	C5'-C4'-C3'	-6.49	105.61	116.00
1	AA	902	G	N7-C8-N9	6.49	116.35	113.10
26	BB	218	A	C3'-C2'-C1'	6.49	106.69	101.50
26	BB	314	C	C6-N1-C2	-6.49	117.70	120.30
26	BB	527	C	P-O3'-C3'	6.49	127.49	119.70
26	BB	1763	G	N9-C4-C5	6.49	108.00	105.40
26	BB	1821	A	C4-C5-C6	-6.49	113.75	117.00
26	BB	1840	G	C4-C5-N7	6.49	113.40	110.80
26	BB	2032	G	C2-N3-C4	6.49	115.15	111.90
26	BB	2728	U	C3'-C2'-C1'	-6.49	96.31	101.50
1	AA	798	U	C2'-C3'-O3'	6.49	124.09	113.70
1	AA	1205	U	C5-C6-N1	-6.49	119.45	122.70
16	AP	97	ARG	NE-CZ-NH2	-6.49	117.05	120.30
26	BB	67	U	C6-N1-C2	-6.49	117.11	121.00
26	BB	1331	G	P-O3'-C3'	6.49	127.49	119.70
1	AA	147	G	N3-C4-N9	-6.49	122.11	126.00
1	AA	559	A	O4'-C1'-N9	6.49	113.39	108.20
1	AA	708	C	C5'-C4'-O4'	6.49	116.89	109.10
1	AA	714	G	C8-N9-C4	6.49	109.00	106.40
1	AA	1309	G	C6-N1-C2	-6.49	121.20	125.10
1	AA	1442	G	N3-C4-C5	-6.49	125.36	128.60
15	AO	37	TYR	CG-CD1-CE1	-6.49	116.11	121.30
26	BB	34	U	N3-C4-O4	6.49	123.94	119.40
26	BB	390	U	C5-C6-N1	-6.49	119.45	122.70
26	BB	590	A	N1-C6-N6	6.49	122.49	118.60
26	BB	835	C	O4'-C1'-N1	6.49	113.39	108.20
26	BB	890	C	C6-N1-C2	-6.49	117.70	120.30
26	BB	1157	G	N1-C2-N3	-6.49	120.01	123.90
26	BB	2242	G	C4-C5-N7	6.49	113.40	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2252	G	C4'-C3'-C2'	-6.49	96.11	102.60
26	BB	2560	A	N1-C6-N6	-6.49	114.71	118.60
26	BB	2891	U	P-O3'-C3'	6.49	127.49	119.70
1	AA	382	A	C4-C5-C6	-6.49	113.76	117.00
1	AA	985	C	C6-N1-C2	6.49	122.90	120.30
1	AA	1300	G	C6-C5-N7	-6.49	126.51	130.40
1	AA	1434	A	C5-C6-N1	-6.49	114.46	117.70
26	BB	51	G	C5-N7-C8	-6.49	101.06	104.30
26	BB	651	G	C5-N7-C8	-6.49	101.06	104.30
26	BB	2154	A	C5'-C4'-C3'	-6.49	105.62	116.00
26	BB	2809	A	C6-N1-C2	6.49	122.49	118.60
1	AA	436	C	N3-C2-O2	-6.49	117.36	121.90
1	AA	851	G	N3-C4-C5	-6.49	125.36	128.60
1	AA	898	G	C4-C5-C6	6.49	122.69	118.80
4	AD	5	G	C4-C5-C6	6.49	122.69	118.80
26	BB	1210	G	O4'-C1'-C2'	6.49	113.44	107.60
26	BB	1292	G	N3-C4-C5	-6.49	125.36	128.60
26	BB	2301	C	O4'-C4'-C3'	6.49	111.29	106.10
1	AA	1506	U	O4'-C1'-N1	6.49	113.39	108.20
1	AA	1520	C	C6-N1-C2	6.49	122.89	120.30
4	AD	45	A	C6-N1-C2	-6.49	114.71	118.60
25	BA	84	G	C4-C5-N7	-6.49	108.21	110.80
26	BB	397	U	C4'-C3'-C2'	-6.49	96.11	102.60
26	BB	954	G	N7-C8-N9	6.49	116.34	113.10
26	BB	2425	A	C5-N7-C8	-6.49	100.66	103.90
26	BB	2497	A	C5-C6-N1	6.49	120.94	117.70
1	AA	97	G	N3-C4-C5	-6.48	125.36	128.60
1	AA	423	G	C5'-C4'-C3'	-6.48	105.63	116.00
26	BB	2208	C	C2-N3-C4	-6.48	116.66	119.90
1	AA	15	G	N3-C2-N2	6.48	124.44	119.90
1	AA	43	C	C6-N1-C2	6.48	122.89	120.30
1	AA	604	G	C3'-C2'-C1'	6.48	106.69	101.50
1	AA	791	G	O4'-C4'-C3'	-6.48	97.52	104.00
1	AA	819	A	C4-C5-N7	6.48	113.94	110.70
1	AA	864	A	C5-C6-N1	6.48	120.94	117.70
1	AA	1103	C	C2-N3-C4	6.48	123.14	119.90
1	AA	1161	C	O4'-C1'-N1	6.48	113.39	108.20
1	AA	1227	A	C5-C6-N1	-6.48	114.46	117.70
1	AA	1532	U	C2-N3-C4	-6.48	123.11	127.00
18	AR	62	ARG	NH1-CZ-NH2	6.48	126.53	119.40
26	BB	663	G	C4-C5-N7	6.48	113.39	110.80
26	BB	1687	G	N3-C2-N2	6.48	124.44	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2047	C	C5-C4-N4	-6.48	115.66	120.20
26	BB	2497	A	C5-C6-N6	-6.48	118.51	123.70
26	BB	2860	A	N9-C4-C5	6.48	108.39	105.80
1	AA	249	U	N1-C2-N3	6.48	118.79	114.90
1	AA	253	A	N9-C4-C5	6.48	108.39	105.80
1	AA	1459	G	O4'-C4'-C3'	6.48	111.28	106.10
2	AB	6	C	C5-C6-N1	6.48	124.24	121.00
26	BB	730	A	N1-C6-N6	-6.48	114.71	118.60
26	BB	946	C	N3-C4-C5	-6.48	119.31	121.90
26	BB	1164	C	C2-N3-C4	6.48	123.14	119.90
26	BB	1598	A	O4'-C4'-C3'	6.48	111.28	106.10
26	BB	1642	G	C2-N3-C4	-6.48	108.66	111.90
26	BB	1981	A	N9-C4-C5	6.48	108.39	105.80
26	BB	2508	G	N1-C2-N3	6.48	127.79	123.90
26	BB	2674	G	O4'-C1'-N9	6.48	113.38	108.20
26	BB	2751	G	C4-C5-N7	6.48	113.39	110.80
4	AD	74	A	C4-C5-C6	-6.48	113.76	117.00
26	BB	149	A	N9-C4-C5	6.48	108.39	105.80
26	BB	308	G	C5-N7-C8	-6.48	101.06	104.30
1	AA	440	C	C5-C6-N1	6.48	124.24	121.00
1	AA	443	C	O4'-C1'-C2'	6.48	113.43	107.60
1	AA	1065	U	N3-C2-O2	-6.48	117.67	122.20
18	AR	83	ARG	NE-CZ-NH2	-6.48	117.06	120.30
25	BA	58	A	C5'-C4'-C3'	6.48	126.36	116.00
26	BB	106	C	C3'-C2'-C1'	-6.48	96.32	101.50
26	BB	794	A	C2-N3-C4	-6.48	107.36	110.60
26	BB	836	G	C5'-C4'-O4'	6.48	116.87	109.10
26	BB	1280	G	N7-C8-N9	6.48	116.34	113.10
26	BB	1410	G	C1'-O4'-C4'	-6.48	104.72	109.90
26	BB	1444	G	O4'-C1'-N9	6.48	113.38	108.20
26	BB	2157	G	C5-N7-C8	-6.48	101.06	104.30
26	BB	2543	G	P-O3'-C3'	6.48	127.47	119.70
1	AA	455	G	C4-C5-N7	6.48	113.39	110.80
1	AA	825	A	N1-C6-N6	-6.48	114.71	118.60
2	AB	19	G	N1-C6-O6	-6.48	116.01	119.90
26	BB	555	G	C2-N3-C4	6.48	115.14	111.90
26	BB	664	G	N7-C8-N9	6.48	116.34	113.10
26	BB	858	G	N9-C4-C5	6.48	107.99	105.40
26	BB	1231	U	C4'-C3'-C2'	-6.48	96.12	102.60
26	BB	1371	G	P-O3'-C3'	6.48	127.47	119.70
26	BB	2509	G	C2-N3-C4	6.48	115.14	111.90
1	AA	105	G	N3-C2-N2	-6.47	115.37	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	404	G	C4-C5-N7	-6.47	108.21	110.80
1	AA	549	C	C1'-O4'-C4'	6.47	115.08	109.90
1	AA	1185	G	C4-C5-C6	6.47	122.68	118.80
26	BB	103	A	N1-C6-N6	-6.47	114.72	118.60
26	BB	273	G	C5'-C4'-O4'	6.47	116.87	109.10
26	BB	1456	G	C5-C6-N1	6.47	114.74	111.50
26	BB	2099	U	N3-C2-O2	6.47	126.73	122.20
26	BB	2712	C	O4'-C1'-N1	6.47	113.38	108.20
1	AA	339	C	N1-C2-N3	-6.47	114.67	119.20
1	AA	1155	A	N1-C2-N3	-6.47	126.06	129.30
1	AA	1208	C	O4'-C1'-C2'	6.47	113.42	107.60
25	BA	95	U	C3'-C2'-C1'	6.47	106.68	101.50
26	BB	395	U	C5-C4-O4	-6.47	122.02	125.90
26	BB	685	A	C6-N1-C2	-6.47	114.72	118.60
26	BB	952	G	C5-N7-C8	6.47	107.54	104.30
26	BB	1116	G	N3-C4-C5	-6.47	125.36	128.60
26	BB	1217	U	C1'-O4'-C4'	6.47	115.08	109.90
26	BB	1287	A	C5-C6-N1	6.47	120.94	117.70
26	BB	2139	U	C4'-C3'-C2'	-6.47	96.13	102.60
1	AA	676	A	C5-C6-N1	6.47	120.94	117.70
3	AC	15	G	C5-C6-N1	6.47	114.74	111.50
26	BB	1299	G	N1-C2-N2	6.47	122.02	116.20
26	BB	2410	G	C2-N3-C4	6.47	115.14	111.90
26	BB	2438	U	C5'-C4'-O4'	6.47	116.86	109.10
32	BH	55	ASP	CB-CG-OD2	-6.47	112.48	118.30
1	AA	88	U	N3-C2-O2	-6.47	117.67	122.20
1	AA	1524	C	P-O3'-C3'	6.47	127.46	119.70
25	BA	108	A	C5'-C4'-O4'	6.47	116.86	109.10
26	BB	1074	G	C4-C5-N7	-6.47	108.21	110.80
26	BB	1190	G	C5'-C4'-O4'	6.47	116.86	109.10
26	BB	1831	G	O4'-C1'-N9	6.47	113.38	108.20
26	BB	2236	U	O4'-C4'-C3'	-6.47	97.53	104.00
26	BB	2677	G	N1-C2-N3	-6.47	120.02	123.90
26	BB	1195	G	C4-C5-C6	6.47	122.68	118.80
26	BB	2151	U	O4'-C1'-N1	6.47	113.38	108.20
26	BB	2706	A	O4'-C1'-N9	6.47	113.38	108.20
1	AA	948	C	C3'-C2'-C1'	6.47	106.67	101.50
16	AP	106	ARG	NE-CZ-NH1	6.47	123.53	120.30
26	BB	103	A	O4'-C4'-C3'	-6.47	97.53	104.00
26	BB	146	A	C5-C6-N6	-6.47	118.53	123.70
26	BB	805	G	N1-C2-N3	-6.47	120.02	123.90
26	BB	1383	A	O4'-C4'-C3'	6.47	111.27	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1420	A	C2-N3-C4	6.47	113.83	110.60
26	BB	1439	A	C1'-O4'-C4'	-6.47	104.73	109.90
26	BB	1580	A	C4-C5-C6	-6.47	113.77	117.00
26	BB	2037	A	C2-N3-C4	6.47	113.83	110.60
26	BB	2860	A	C4-C5-C6	6.47	120.23	117.00
1	AA	534	U	P-O3'-C3'	6.46	127.46	119.70
1	AA	573	A	C6-C5-N7	-6.46	127.78	132.30
1	AA	658	C	N3-C2-O2	-6.46	117.38	121.90
1	AA	660	C	C5'-C4'-O4'	6.46	116.86	109.10
1	AA	1163	A	N1-C2-N3	6.46	132.53	129.30
26	BB	146	A	N1-C2-N3	6.46	132.53	129.30
26	BB	828	U	C3'-C2'-C1'	6.46	106.67	101.50
26	BB	982	C	N3-C2-O2	-6.46	117.38	121.90
26	BB	1135	C	C4'-C3'-C2'	-6.46	96.14	102.60
26	BB	1946	U	N1-C1'-C2'	-6.46	104.89	112.00
26	BB	2323	G	C5-C6-O6	6.46	132.48	128.60
26	BB	2871	U	N1-C2-N3	6.46	118.78	114.90
32	BH	94	ARG	NE-CZ-NH1	6.46	123.53	120.30
35	BK	126	ARG	CD-NE-CZ	6.46	132.65	123.60
1	AA	799	G	C5-C6-N1	6.46	114.73	111.50
8	AH	24	VAL	CA-CB-CG2	6.46	120.59	110.90
26	BB	539	G	O4'-C1'-C2'	6.46	113.42	107.60
26	BB	2236	U	P-O3'-C3'	6.46	127.46	119.70
26	BB	2350	C	N3-C2-O2	-6.46	117.38	121.90
1	AA	23	C	N3-C2-O2	-6.46	117.38	121.90
1	AA	219	U	N1-C2-O2	-6.46	118.28	122.80
1	AA	255	G	C5-C6-O6	6.46	132.48	128.60
1	AA	324	G	C4-C5-C6	6.46	122.68	118.80
1	AA	376	G	N1-C6-O6	6.46	123.78	119.90
1	AA	386	C	N1-C2-O2	6.46	122.78	118.90
1	AA	719	C	C1'-O4'-C4'	-6.46	104.73	109.90
1	AA	730	G	C6-N1-C2	-6.46	121.22	125.10
1	AA	916	U	C1'-O4'-C4'	6.46	115.07	109.90
1	AA	1058	G	C5-N7-C8	6.46	107.53	104.30
1	AA	1142	G	C8-N9-C4	-6.46	103.81	106.40
26	BB	783	A	N3-C4-N9	6.46	132.57	127.40
26	BB	899	A	N3-C4-C5	-6.46	122.28	126.80
26	BB	1235	G	N7-C8-N9	6.46	116.33	113.10
26	BB	1311	G	C4-C5-C6	6.46	122.68	118.80
26	BB	1651	G	C6-C5-N7	-6.46	126.52	130.40
26	BB	2114	A	C8-N9-C4	-6.46	103.22	105.80
26	BB	2148	G	C8-N9-C4	-6.46	103.81	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2195	U	N1-C1'-C2'	-6.46	104.89	112.00
26	BB	2585	U	C3'-C2'-C1'	-6.46	96.33	101.50
26	BB	2604	U	N1-C2-N3	6.46	118.78	114.90
1	AA	53	A	C2-N3-C4	6.46	113.83	110.60
26	BB	417	C	C4'-C3'-C2'	-6.46	96.14	102.60
26	BB	744	U	N1-C1'-C2'	-6.46	104.89	112.00
26	BB	901	C	C6-N1-C2	6.46	122.88	120.30
26	BB	966	G	C5-C6-O6	6.46	132.48	128.60
26	BB	1687	G	C5-N7-C8	-6.46	101.07	104.30
26	BB	2031	A	C8-N9-C4	-6.46	103.22	105.80
26	BB	2168	G	O4'-C1'-N9	6.46	113.37	108.20
26	BB	2294	G	C5'-C4'-C3'	-6.46	105.66	116.00
26	BB	2792	A	O4'-C1'-N9	6.46	113.37	108.20
1	AA	1268	G	N9-C4-C5	6.46	107.98	105.40
1	AA	1463	U	N1-C2-N3	6.46	118.78	114.90
2	AB	57	G	N1-C6-O6	-6.46	116.02	119.90
4	AD	50	G	N9-C4-C5	-6.46	102.82	105.40
26	BB	209	C	O4'-C1'-N1	6.46	113.37	108.20
26	BB	1034	G	N1-C6-O6	6.46	123.78	119.90
26	BB	2427	C	N1-C2-O2	6.46	122.78	118.90
26	BB	2747	G	N1-C6-O6	-6.46	116.03	119.90
31	BG	132	ARG	NE-CZ-NH2	6.46	123.53	120.30
1	AA	677	U	C4-C5-C6	6.46	123.57	119.70
25	BA	21	G	C2-N3-C4	6.46	115.13	111.90
25	BA	23	G	C8-N9-C1'	6.46	135.39	127.00
26	BB	29	U	C3'-C2'-C1'	6.46	106.67	101.50
26	BB	112	U	C6-N1-C2	-6.46	117.13	121.00
26	BB	469	G	C6-N1-C2	-6.46	121.23	125.10
26	BB	489	G	N3-C4-N9	6.46	129.87	126.00
26	BB	759	G	C5-C6-N1	6.46	114.73	111.50
26	BB	1097	U	C1'-O4'-C4'	6.46	115.07	109.90
26	BB	1112	G	C5'-C4'-C3'	-6.46	105.67	116.00
26	BB	1179	G	O4'-C1'-N9	6.46	113.36	108.20
26	BB	1550	C	N1-C2-N3	-6.46	114.68	119.20
26	BB	2430	A	C6-C5-N7	6.46	136.82	132.30
26	BB	908	C	C2-N3-C4	6.46	123.13	119.90
26	BB	996	A	N7-C8-N9	-6.46	110.57	113.80
26	BB	1271	G	N9-C4-C5	6.46	107.98	105.40
26	BB	2162	G	N9-C4-C5	6.46	107.98	105.40
26	BB	2383	G	N3-C2-N2	6.46	124.42	119.90
1	AA	1238	A	N1-C6-N6	6.45	122.47	118.60
1	AA	1343	G	C4'-C3'-C2'	-6.45	96.15	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1433	A	C5'-C4'-O4'	6.45	116.84	109.10
2	AB	9	A	N1-C2-N3	-6.45	126.07	129.30
25	BA	83	G	N3-C2-N2	-6.45	115.38	119.90
26	BB	520	G	C2-N3-C4	-6.45	108.67	111.90
26	BB	683	U	N3-C2-O2	-6.45	117.68	122.20
26	BB	798	G	C5'-C4'-C3'	-6.45	105.67	116.00
26	BB	853	C	O4'-C1'-N1	6.45	113.36	108.20
26	BB	1446	C	N1-C2-N3	-6.45	114.68	119.20
26	BB	1524	G	C5-C6-O6	-6.45	124.73	128.60
26	BB	1898	U	C2-N3-C4	-6.45	123.13	127.00
26	BB	2102	G	C2-N3-C4	6.45	115.13	111.90
26	BB	2685	G	C4-C5-C6	-6.45	114.93	118.80
26	BB	1802	A	C5-C6-N1	6.45	120.93	117.70
26	BB	2162	G	C6-N1-C2	-6.45	121.23	125.10
26	BB	2854	G	N9-C4-C5	6.45	107.98	105.40
1	AA	98	A	C6-C5-N7	6.45	136.81	132.30
1	AA	1326	U	C2-N3-C4	-6.45	123.13	127.00
1	AA	1462	C	C4-C5-C6	6.45	120.62	117.40
25	BA	84	G	C4-C5-C6	6.45	122.67	118.80
26	BB	431	U	C5'-C4'-O4'	6.45	116.84	109.10
26	BB	1214	A	N7-C8-N9	6.45	117.03	113.80
26	BB	1386	C	C5-C6-N1	-6.45	117.78	121.00
26	BB	1520	U	C2-N3-C4	-6.45	123.13	127.00
26	BB	1528	A	C4-C5-N7	-6.45	107.47	110.70
26	BB	1767	G	N7-C8-N9	6.45	116.33	113.10
26	BB	2315	G	N1-C6-O6	6.45	123.77	119.90
33	BI	46	PHE	CB-CG-CD1	6.45	125.31	120.80
1	AA	234	C	N3-C4-N4	-6.45	113.49	118.00
1	AA	382	A	P-O3'-C3'	6.45	127.44	119.70
1	AA	614	C	C1'-O4'-C4'	6.45	115.06	109.90
1	AA	1041	G	C6-N1-C2	-6.45	121.23	125.10
26	BB	107	G	O4'-C1'-N9	6.45	113.36	108.20
26	BB	1422	G	C6-N1-C2	6.45	128.97	125.10
26	BB	1511	G	C4-N9-C1'	-6.45	118.12	126.50
26	BB	1623	G	N1-C6-O6	-6.45	116.03	119.90
26	BB	2439	A	C1'-O4'-C4'	6.45	115.06	109.90
26	BB	2627	G	C6-C5-N7	-6.45	126.53	130.40
26	BB	2693	G	C5-C6-O6	6.45	132.47	128.60
26	BB	2826	A	N7-C8-N9	6.45	117.02	113.80
33	BI	96	THR	O-C-N	6.45	133.02	122.70
38	BN	60	ARG	NE-CZ-NH1	6.45	123.52	120.30
1	AA	425	G	O3'-P-O5'	-6.45	91.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	43	G	P-O3'-C3'	6.45	127.44	119.70
26	BB	169	G	C5'-C4'-O4'	6.45	116.84	109.10
26	BB	404	A	C8-N9-C4	6.45	108.38	105.80
26	BB	818	G	C5-C6-O6	-6.45	124.73	128.60
1	AA	745	G	C4-C5-N7	-6.45	108.22	110.80
1	AA	876	C	C2-N3-C4	-6.45	116.68	119.90
1	AA	1264	U	C5-C6-N1	6.45	125.92	122.70
1	AA	1485	U	C5-C6-N1	6.45	125.92	122.70
2	AB	6	C	P-O3'-C3'	6.45	127.44	119.70
25	BA	34	A	C4'-C3'-C2'	-6.45	96.16	102.60
26	BB	557	C	C4-C5-C6	-6.45	114.18	117.40
26	BB	891	G	O4'-C1'-N9	6.45	113.36	108.20
26	BB	1445	G	N9-C4-C5	-6.45	102.82	105.40
26	BB	1903	G	N1-C2-N2	6.45	122.00	116.20
26	BB	2523	G	N9-C4-C5	-6.45	102.82	105.40
26	BB	2557	G	C1'-O4'-C4'	-6.45	104.74	109.90
26	BB	2847	U	C4-C5-C6	6.45	123.57	119.70
3	AC	13	A	O4'-C4'-C3'	6.44	111.25	106.10
26	BB	687	C	N3-C2-O2	-6.44	117.39	121.90
26	BB	764	A	O4'-C1'-N9	-6.44	103.05	108.20
26	BB	1018	U	P-O3'-C3'	6.44	127.43	119.70
26	BB	1135	C	P-O3'-C3'	6.44	127.43	119.70
26	BB	1255	U	C2-N3-C4	-6.44	123.13	127.00
32	BH	153	PRO	N-CA-CB	6.44	111.03	103.30
46	BV	3	ARG	N-CA-CB	6.44	122.20	110.60
1	AA	115	G	C5'-C4'-C3'	-6.44	105.69	116.00
1	AA	213	G	C2-N3-C4	6.44	115.12	111.90
1	AA	1008	U	N3-C4-O4	6.44	123.91	119.40
1	AA	1273	C	C6-N1-C2	-6.44	117.72	120.30
2	AB	9	A	C4-C5-C6	-6.44	113.78	117.00
8	AH	119	VAL	CA-CB-CG2	6.44	120.56	110.90
26	BB	185	G	C3'-C2'-C1'	-6.44	96.35	101.50
26	BB	1072	C	N1-C2-O2	6.44	122.77	118.90
26	BB	1278	C	C6-N1-C2	6.44	122.88	120.30
26	BB	2120	G	O4'-C1'-C2'	-6.44	99.36	105.80
26	BB	2209	G	C6-N1-C2	-6.44	121.23	125.10
26	BB	2262	U	P-O3'-C3'	6.44	127.43	119.70
26	BB	2332	C	N3-C4-N4	6.44	122.51	118.00
26	BB	2790	U	O4'-C1'-C2'	-6.44	99.36	105.80
1	AA	108	G	N3-C2-N2	-6.44	115.39	119.90
1	AA	467	U	P-O3'-C3'	6.44	127.43	119.70
1	AA	1117	A	N7-C8-N9	6.44	117.02	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1359	C	C3'-C2'-C1'	-6.44	96.35	101.50
26	BB	445	C	C4-C5-C6	6.44	120.62	117.40
26	BB	1137	G	N1-C6-O6	-6.44	116.04	119.90
26	BB	1251	C	P-O3'-C3'	6.44	127.43	119.70
26	BB	1627	G	O4'-C4'-C3'	-6.44	97.56	104.00
26	BB	1739	A	C4-C5-N7	-6.44	107.48	110.70
26	BB	1799	G	C3'-C2'-C1'	6.44	106.65	101.50
26	BB	2361	G	N7-C8-N9	6.44	116.32	113.10
26	BB	2598	A	P-O3'-C3'	6.44	127.43	119.70
26	BB	2640	G	N1-C2-N2	6.44	122.00	116.20
1	AA	530	G	N9-C4-C5	6.44	107.97	105.40
1	AA	1320	C	C6-N1-C2	-6.44	117.72	120.30
25	BA	64	G	N1-C6-O6	-6.44	116.04	119.90
26	BB	2863	C	C5-C6-N1	6.44	124.22	121.00
1	AA	143	A	N9-C1'-C2'	-6.44	104.92	112.00
1	AA	240	G	C3'-C2'-C1'	6.44	106.65	101.50
1	AA	467	U	N1-C2-O2	6.44	127.31	122.80
1	AA	1089	G	C5'-C4'-C3'	-6.44	105.70	116.00
1	AA	1366	C	N1-C2-N3	6.44	123.71	119.20
4	AD	30	G	C5-C6-O6	-6.44	124.74	128.60
4	AD	51	U	C5-C6-N1	-6.44	119.48	122.70
26	BB	344	A	C6-N1-C2	6.44	122.46	118.60
26	BB	456	C	N3-C4-C5	-6.44	119.33	121.90
26	BB	1023	U	N3-C2-O2	-6.44	117.69	122.20
26	BB	1172	C	N3-C2-O2	6.44	126.41	121.90
26	BB	1669	A	O4'-C1'-N9	6.44	113.35	108.20
26	BB	1702	G	C8-N9-C1'	6.44	135.37	127.00
26	BB	1833	C	O4'-C1'-N1	6.44	113.35	108.20
26	BB	1921	G	N3-C4-N9	6.44	129.86	126.00
26	BB	2238	G	C1'-O4'-C4'	-6.44	104.75	109.90
1	AA	4	U	N3-C4-O4	6.44	123.91	119.40
1	AA	146	G	C6-C5-N7	-6.44	126.54	130.40
1	AA	1128	C	N1-C2-N3	6.44	123.70	119.20
26	BB	1103	A	N3-C4-N9	6.44	132.55	127.40
26	BB	2505	G	P-O3'-C3'	6.44	127.42	119.70
1	AA	337	G	N1-C2-N3	-6.43	120.04	123.90
1	AA	866	C	N1-C2-O2	6.43	122.76	118.90
4	AD	30	G	C3'-C2'-C1'	-6.43	96.35	101.50
26	BB	65	U	N1-C1'-C2'	-6.43	104.92	112.00
26	BB	554	U	C4'-C3'-C2'	-6.43	96.17	102.60
26	BB	741	U	O4'-C1'-N1	6.43	113.35	108.20
26	BB	821	A	C3'-C2'-C1'	6.43	106.65	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1552	A	N1-C2-N3	-6.43	126.08	129.30
46	BV	30	ILE	CA-CB-CG2	6.43	123.77	110.90
1	AA	31	G	C4-C5-N7	6.43	113.37	110.80
1	AA	197	A	C1'-O4'-C4'	6.43	115.05	109.90
1	AA	440	C	N1-C2-O2	6.43	122.76	118.90
1	AA	788	U	C2-N3-C4	-6.43	123.14	127.00
1	AA	796	C	C2-N3-C4	6.43	123.12	119.90
1	AA	821	G	N1-C6-O6	6.43	123.76	119.90
1	AA	879	C	C5'-C4'-O4'	6.43	116.82	109.10
1	AA	1108	G	O4'-C1'-N9	6.43	113.34	108.20
1	AA	1270	G	N7-C8-N9	6.43	116.32	113.10
1	AA	1303	C	N3-C2-O2	-6.43	117.40	121.90
1	AA	1386	G	C5-C6-N1	-6.43	108.28	111.50
1	AA	1526	G	N1-C2-N3	6.43	127.76	123.90
4	AD	76	C	N3-C4-N4	6.43	122.50	118.00
26	BB	49	A	N1-C6-N6	6.43	122.46	118.60
26	BB	269	C	N1-C2-O2	6.43	122.76	118.90
26	BB	961	C	C2-N3-C4	6.43	123.12	119.90
26	BB	988	A	N1-C2-N3	-6.43	126.08	129.30
26	BB	1837	C	C5-C6-N1	6.43	124.22	121.00
26	BB	2124	G	N1-C6-O6	6.43	123.76	119.90
1	AA	589	U	N3-C4-C5	6.43	118.46	114.60
1	AA	1153	G	N7-C8-N9	6.43	116.31	113.10
26	BB	90	U	C5'-C4'-O4'	6.43	116.82	109.10
26	BB	97	C	O4'-C1'-N1	6.43	113.34	108.20
26	BB	2416	C	N3-C4-C5	-6.43	119.33	121.90
1	AA	45	G	N9-C4-C5	6.43	107.97	105.40
1	AA	571	U	O4'-C1'-N1	6.43	113.34	108.20
1	AA	873	A	C4'-C3'-C2'	6.43	109.03	102.60
1	AA	964	A	C5-N7-C8	-6.43	100.69	103.90
1	AA	979	C	O4'-C1'-N1	6.43	113.34	108.20
1	AA	1087	G	C5-N7-C8	-6.43	101.08	104.30
1	AA	1424	U	N3-C4-O4	6.43	123.90	119.40
1	AA	1524	C	N3-C2-O2	-6.43	117.40	121.90
2	AB	69	C	N3-C4-N4	6.43	122.50	118.00
4	AD	1	C	N3-C4-C5	6.43	124.47	121.90
26	BB	120	U	C5'-C4'-O4'	6.43	116.82	109.10
26	BB	137	U	O4'-C1'-N1	6.43	113.34	108.20
26	BB	1192	G	C6-N1-C2	-6.43	121.24	125.10
26	BB	1401	G	N3-C4-C5	-6.43	125.39	128.60
26	BB	1759	A	C5-C6-N1	6.43	120.92	117.70
26	BB	2238	G	C5-N7-C8	-6.43	101.08	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2761	A	C2-N3-C4	6.43	113.81	110.60
32	BH	151	ARG	NE-CZ-NH2	-6.43	117.08	120.30
1	AA	146	G	C4-C5-C6	6.43	122.66	118.80
1	AA	582	C	C4'-C3'-C2'	-6.43	96.17	102.60
1	AA	1468	A	C6-C5-N7	6.43	136.80	132.30
26	BB	989	G	N7-C8-N9	6.43	116.31	113.10
1	AA	246	A	N3-C4-N9	-6.43	122.26	127.40
1	AA	423	G	N9-C4-C5	6.43	107.97	105.40
1	AA	1432	G	C4-C5-C6	6.43	122.66	118.80
19	AS	55	ASP	CB-CG-OD2	-6.43	112.52	118.30
26	BB	54	G	N1-C6-O6	6.43	123.75	119.90
26	BB	146	A	O4'-C1'-C2'	6.43	113.38	107.60
26	BB	299	A	C4'-C3'-C2'	-6.43	96.17	102.60
26	BB	463	G	C5'-C4'-O4'	6.43	116.81	109.10
26	BB	1059	G	C5'-C4'-O4'	6.43	116.81	109.10
26	BB	1408	G	O4'-C1'-N9	6.43	113.34	108.20
26	BB	2288	A	C6-N1-C2	6.43	122.46	118.60
26	BB	2383	G	N7-C8-N9	6.43	116.31	113.10
1	AA	327	A	O4'-C4'-C3'	6.42	111.24	106.10
1	AA	597	G	N7-C8-N9	6.42	116.31	113.10
1	AA	623	C	N1-C2-N3	-6.42	114.70	119.20
1	AA	732	C	N3-C4-C5	-6.42	119.33	121.90
1	AA	1526	G	C5-C6-N1	6.42	114.71	111.50
26	BB	491	G	C5-N7-C8	6.42	107.51	104.30
26	BB	769	U	C1'-O4'-C4'	6.42	115.04	109.90
26	BB	1218	G	C6-C5-N7	6.42	134.25	130.40
26	BB	2029	G	C2-N3-C4	-6.42	108.69	111.90
26	BB	2075	U	C2-N3-C4	-6.42	123.14	127.00
26	BB	2325	G	C2-N3-C4	6.42	115.11	111.90
26	BB	2328	A	C8-N9-C4	-6.42	103.23	105.80
1	AA	204	G	N1-C2-N2	6.42	121.98	116.20
1	AA	1500	A	C3'-C2'-C1'	6.42	106.64	101.50
26	BB	927	A	C1'-O4'-C4'	6.42	115.04	109.90
56	B5	4	THR	CA-CB-CG2	-6.42	103.41	112.40
1	AA	240	G	C4'-C3'-C2'	-6.42	96.18	102.60
1	AA	460	A	C5-C6-N6	6.42	128.84	123.70
26	BB	167	A	C4-C5-N7	6.42	113.91	110.70
26	BB	343	C	N1-C1'-C2'	-6.42	104.94	112.00
26	BB	368	A	C5-C6-N6	-6.42	118.56	123.70
26	BB	1304	A	C5-C6-N6	-6.42	118.56	123.70
26	BB	1390	U	C5-C6-N1	-6.42	119.49	122.70
26	BB	1858	A	C4-C5-N7	-6.42	107.49	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1869	G	C3'-C2'-C1'	-6.42	96.36	101.50
26	BB	2652	C	N1-C2-O2	6.42	122.75	118.90
48	BX	70	ILE	CA-CB-CG1	6.42	123.20	111.00
1	AA	241	G	C5-C6-N1	-6.42	108.29	111.50
1	AA	903	G	N9-C4-C5	6.42	107.97	105.40
7	AG	141	VAL	CA-CB-CG2	6.42	120.53	110.90
26	BB	117	G	O4'-C1'-N9	-6.42	103.06	108.20
26	BB	2010	G	C5'-C4'-C3'	-6.42	105.73	116.00
26	BB	2266	A	C5-N7-C8	-6.42	100.69	103.90
1	AA	1073	U	O4'-C1'-N1	6.42	113.33	108.20
1	AA	1321	U	C6-N1-C2	-6.42	117.15	121.00
26	BB	271	G	N9-C1'-C2'	-6.42	104.94	112.00
26	BB	515	A	C5-C6-N6	6.42	128.84	123.70
26	BB	556	A	N1-C2-N3	-6.42	126.09	129.30
26	BB	612	G	N1-C2-N3	-6.42	120.05	123.90
26	BB	886	A	C8-N9-C4	-6.42	103.23	105.80
26	BB	1182	G	N7-C8-N9	6.42	116.31	113.10
26	BB	2391	G	C4-C5-C6	6.42	122.65	118.80
26	BB	2454	G	C8-N9-C4	-6.42	103.83	106.40
26	BB	2663	G	N1-C2-N3	-6.42	120.05	123.90
1	AA	654	G	C5'-C4'-O4'	-6.42	101.40	109.10
12	AL	39	GLY	C-N-CA	6.42	137.74	121.70
26	BB	751	A	O4'-C1'-C2'	-6.42	99.38	105.80
26	BB	858	G	N3-C4-C5	-6.42	125.39	128.60
26	BB	971	G	C5-N7-C8	6.42	107.51	104.30
26	BB	1491	G	C5-N7-C8	-6.42	101.09	104.30
26	BB	1705	A	C6-N1-C2	-6.42	114.75	118.60
26	BB	1723	G	C6-N1-C2	-6.42	121.25	125.10
26	BB	2367	G	N9-C4-C5	6.42	107.97	105.40
26	BB	2620	C	C4-C5-C6	-6.42	114.19	117.40
1	AA	1066	C	C6-N1-C2	-6.42	117.73	120.30
16	AP	28	ARG	CD-NE-CZ	-6.42	114.62	123.60
26	BB	625	G	C4-C5-C6	6.42	122.65	118.80
26	BB	1104	C	N3-C4-C5	-6.42	119.33	121.90
26	BB	2778	A	N1-C2-N3	-6.42	126.09	129.30
1	AA	104	G	C2-N3-C4	6.41	115.11	111.90
1	AA	187	G	N3-C2-N2	-6.41	115.41	119.90
1	AA	257	G	C1'-O4'-C4'	6.41	115.03	109.90
1	AA	1452	C	C2-N1-C1'	6.41	125.85	118.80
3	AC	38	G	N1-C2-N3	6.41	127.75	123.90
4	AD	15	G	C1'-O4'-C4'	6.41	115.03	109.90
26	BB	3	U	N1-C2-N3	6.41	118.75	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	127	A	O4'-C1'-N9	-6.41	103.07	108.20
26	BB	481	G	N3-C2-N2	-6.41	115.41	119.90
26	BB	524	G	N3-C4-N9	6.41	129.85	126.00
26	BB	1714	U	O4'-C4'-C3'	6.41	111.23	106.10
26	BB	1922	G	N3-C2-N2	6.41	124.39	119.90
26	BB	2071	A	C5-C6-N1	6.41	120.91	117.70
1	AA	765	G	P-O3'-C3'	6.41	127.39	119.70
1	AA	1287	A	C8-N9-C4	-6.41	103.23	105.80
26	BB	1471	G	OP1-P-OP2	-6.41	109.98	119.60
26	BB	1982	U	N3-C4-C5	6.41	118.45	114.60
26	BB	2872	A	N1-C2-N3	-6.41	126.09	129.30
1	AA	7	A	C6-C5-N7	6.41	136.79	132.30
1	AA	392	C	N3-C2-O2	-6.41	117.41	121.90
1	AA	430	A	C4-C5-N7	6.41	113.91	110.70
3	AC	33	A	C8-N9-C4	-6.41	103.24	105.80
12	AL	53	LEU	CB-CG-CD1	6.41	121.90	111.00
26	BB	19	A	C2-N3-C4	-6.41	107.39	110.60
26	BB	96	C	N3-C4-N4	-6.41	113.51	118.00
26	BB	410	G	C4-C5-N7	-6.41	108.24	110.80
26	BB	811	U	N3-C2-O2	-6.41	117.71	122.20
26	BB	1133	A	P-O5'-C5'	6.41	131.16	120.90
26	BB	1177	G	C4'-C3'-C2'	-6.41	96.19	102.60
26	BB	1453	A	C4-C5-C6	6.41	120.21	117.00
26	BB	1699	G	C2-N3-C4	6.41	115.11	111.90
26	BB	1753	G	C4'-C3'-C2'	-6.41	96.19	102.60
26	BB	2134	A	C4-C5-N7	-6.41	107.50	110.70
26	BB	2745	C	N3-C2-O2	6.41	126.39	121.90
26	BB	2811	G	C5'-C4'-C3'	6.41	126.26	116.00
1	AA	87	C	P-O3'-C3'	6.41	127.39	119.70
1	AA	541	G	C2-N3-C4	6.41	115.10	111.90
26	BB	194	G	N1-C6-O6	-6.41	116.06	119.90
26	BB	1698	A	N3-C4-C5	6.41	131.29	126.80
26	BB	1764	C	C5-C4-N4	6.41	124.69	120.20
26	BB	2742	G	O4'-C1'-C2'	6.41	113.37	107.60
1	AA	525	C	C3'-C2'-C1'	6.41	106.62	101.50
1	AA	688	G	C5-C6-N1	6.41	114.70	111.50
26	BB	279	A	O4'-C1'-N9	6.41	113.33	108.20
26	BB	934	U	C1'-O4'-C4'	-6.41	104.77	109.90
1	AA	567	G	C5-C6-N1	6.41	114.70	111.50
1	AA	1127	G	C6-C5-N7	6.41	134.24	130.40
1	AA	1133	G	C4-C5-C6	-6.41	114.96	118.80
3	AC	39	U	O4'-C1'-N1	6.41	113.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	5	G	C6-N1-C2	-6.41	121.26	125.10
25	BA	41	G	N9-C4-C5	6.41	107.96	105.40
25	BA	43	C	C3'-C2'-C1'	6.41	106.62	101.50
26	BB	1333	G	C6-C5-N7	-6.41	126.56	130.40
26	BB	1361	G	N3-C2-N2	-6.41	115.42	119.90
26	BB	1526	C	C5-C6-N1	6.41	124.20	121.00
26	BB	2816	G	N7-C8-N9	-6.41	109.90	113.10
43	BS	63	ARG	NH1-CZ-NH2	-6.41	112.35	119.40
1	AA	98	A	C1'-O4'-C4'	-6.40	104.78	109.90
1	AA	1183	U	C3'-C2'-C1'	6.40	106.62	101.50
2	AB	39	A	C4-C5-C6	-6.40	113.80	117.00
26	BB	312	G	N1-C6-O6	6.40	123.74	119.90
26	BB	1153	C	N1-C2-O2	6.40	122.74	118.90
26	BB	1367	A	P-O3'-C3'	6.40	127.39	119.70
26	BB	1533	C	N1-C1'-C2'	-6.40	104.96	112.00
26	BB	1830	C	O4'-C1'-N1	6.40	113.32	108.20
26	BB	1945	G	C8-N9-C4	-6.40	103.84	106.40
1	AA	32	A	P-O5'-C5'	6.40	131.14	120.90
1	AA	617	G	C5-C6-O6	-6.40	124.76	128.60
1	AA	651	C	C5'-C4'-O4'	6.40	116.78	109.10
1	AA	864	A	O4'-C4'-C3'	6.40	111.22	106.10
1	AA	1087	G	C5-C6-O6	-6.40	124.76	128.60
1	AA	1088	G	O4'-C4'-C3'	6.40	111.22	106.10
1	AA	1178	G	N1-C2-N3	6.40	127.74	123.90
1	AA	1315	U	C4'-C3'-C2'	-6.40	96.20	102.60
3	AC	35	G	C8-N9-C1'	6.40	135.32	127.00
26	BB	725	G	N1-C6-O6	-6.40	116.06	119.90
26	BB	869	G	C4'-C3'-C2'	-6.40	96.20	102.60
26	BB	1118	C	C3'-C2'-C1'	6.40	106.62	101.50
26	BB	1150	C	P-O3'-C3'	6.40	127.38	119.70
26	BB	1220	G	C5-C6-O6	-6.40	124.76	128.60
26	BB	1366	A	N9-C1'-C2'	-6.40	104.96	112.00
26	BB	1453	A	C6-C5-N7	-6.40	127.82	132.30
26	BB	1671	U	N1-C2-O2	6.40	127.28	122.80
26	BB	2104	C	C5-C6-N1	6.40	124.20	121.00
26	BB	2171	A	P-O3'-C3'	6.40	127.38	119.70
26	BB	2282	G	N1-C2-N3	-6.40	120.06	123.90
26	BB	2370	G	C5-C6-O6	-6.40	124.76	128.60
26	BB	2397	G	P-O5'-C5'	6.40	131.14	120.90
26	BB	2790	U	N1-C1'-C2'	6.40	122.32	114.00
1	AA	548	G	C1'-O4'-C4'	6.40	115.02	109.90
1	AA	676	A	N3-C4-N9	6.40	132.52	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	700	G	C6-N1-C2	-6.40	121.26	125.10
1	AA	1106	G	P-O3'-C3'	6.40	127.38	119.70
1	AA	1116	U	N1-C2-O2	6.40	127.28	122.80
1	AA	1530	G	O4'-C4'-C3'	6.40	111.22	106.10
4	AD	15	G	C6-N1-C2	-6.40	121.26	125.10
26	BB	327	G	O4'-C1'-N9	6.40	113.32	108.20
26	BB	1209	U	C5-C6-N1	6.40	125.90	122.70
26	BB	1287	A	C5-C6-N6	-6.40	118.58	123.70
26	BB	2062	A	C4'-C3'-C2'	-6.40	96.20	102.60
26	BB	2382	G	N3-C4-N9	6.40	129.84	126.00
26	BB	2735	G	N7-C8-N9	6.40	116.30	113.10
26	BB	2888	C	C4'-C3'-C2'	-6.40	96.20	102.60
28	BD	66	PHE	CB-CG-CD2	-6.40	116.32	120.80
1	AA	301	G	C8-N9-C4	-6.40	103.84	106.40
3	AC	59	A	C4'-C3'-C2'	-6.40	96.20	102.60
25	BA	116	G	N3-C4-C5	-6.40	125.40	128.60
26	BB	924	G	C5'-C4'-C3'	-6.40	105.76	116.00
26	BB	1456	G	O4'-C1'-C2'	6.40	113.36	107.60
26	BB	1528	A	N7-C8-N9	-6.40	110.60	113.80
1	AA	101	A	N9-C4-C5	6.40	108.36	105.80
1	AA	148	G	N9-C1'-C2'	-6.40	104.96	112.00
1	AA	427	U	O4'-C1'-N1	6.40	113.32	108.20
1	AA	495	A	P-O3'-C3'	6.40	127.38	119.70
1	AA	670	G	N3-C4-N9	6.40	129.84	126.00
1	AA	740	U	C4-C5-C6	6.40	123.54	119.70
1	AA	1355	G	N3-C4-N9	-6.40	122.16	126.00
26	BB	669	G	C4-C5-C6	6.40	122.64	118.80
26	BB	1325	U	C5'-C4'-O4'	6.40	116.78	109.10
26	BB	1392	A	N3-C4-C5	-6.40	122.32	126.80
26	BB	2111	U	C6-N1-C2	6.40	124.84	121.00
26	BB	2208	C	N3-C4-C5	6.40	124.46	121.90
26	BB	2259	U	P-O3'-C3'	6.40	127.38	119.70
26	BB	2358	A	C1'-O4'-C4'	-6.40	104.78	109.90
26	BB	2464	G	C6-N1-C2	-6.40	121.26	125.10
26	BB	2699	C	N1-C1'-C2'	-6.40	104.96	112.00
26	BB	2835	A	C8-N9-C4	-6.40	103.24	105.80
56	B5	14	ARG	NE-CZ-NH1	6.40	123.50	120.30
1	AA	453	G	C6-C5-N7	-6.40	126.56	130.40
1	AA	1120	C	C4'-C3'-C2'	-6.40	96.20	102.60
26	BB	708	G	C4-C5-N7	-6.40	108.24	110.80
26	BB	753	A	C5-C6-N1	6.40	120.90	117.70
26	BB	991	C	N1-C2-O2	-6.40	115.06	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2190	G	C4-C5-C6	6.40	122.64	118.80
26	BB	2472	G	C5'-C4'-O4'	6.40	116.78	109.10
1	AA	189	A	C4'-C3'-C2'	-6.39	96.20	102.60
26	BB	503	A	P-O3'-C3'	6.39	127.37	119.70
26	BB	1153	C	N3-C4-C5	6.39	124.46	121.90
26	BB	1908	C	O4'-C1'-N1	6.39	113.32	108.20
26	BB	2819	G	N3-C4-C5	-6.39	125.40	128.60
1	AA	95	C	N3-C2-O2	-6.39	117.42	121.90
1	AA	384	G	N1-C2-N3	6.39	127.74	123.90
1	AA	1150	A	N3-C4-C5	-6.39	122.33	126.80
4	AD	22	A	C2-N3-C4	-6.39	107.40	110.60
26	BB	42	A	N9-C4-C5	6.39	108.36	105.80
26	BB	881	G	N3-C4-N9	6.39	129.84	126.00
26	BB	1148	U	N1-C1'-C2'	-6.39	104.97	112.00
26	BB	1759	A	O4'-C1'-N9	6.39	113.31	108.20
26	BB	1773	A	C5'-C4'-O4'	6.39	116.77	109.10
26	BB	2690	U	O4'-C1'-C2'	6.39	113.35	107.60
39	BO	109	PRO	N-CA-CB	6.39	110.97	103.30
1	AA	290	C	O4'-C1'-N1	6.39	113.31	108.20
1	AA	973	G	C8-N9-C4	6.39	108.96	106.40
1	AA	1020	G	N1-C2-N2	6.39	121.95	116.20
1	AA	1534	A	N3-C4-C5	-6.39	122.33	126.80
2	AB	44	G	C3'-C2'-C1'	6.39	106.61	101.50
19	AS	53	ASP	CB-CG-OD2	-6.39	112.55	118.30
26	BB	1631	G	O4'-C1'-N9	6.39	113.31	108.20
26	BB	1972	G	C2-N3-C4	6.39	115.09	111.90
26	BB	2129	C	N3-C4-N4	6.39	122.47	118.00
26	BB	2488	G	C2-N3-C4	6.39	115.10	111.90
1	AA	19	A	C6-N1-C2	-6.39	114.77	118.60
1	AA	218	U	C1'-O4'-C4'	-6.39	104.79	109.90
1	AA	1032	G	N3-C2-N2	-6.39	115.43	119.90
1	AA	1255	G	O4'-C1'-N9	6.39	113.31	108.20
1	AA	1426	G	N3-C2-N2	6.39	124.37	119.90
26	BB	186	G	C5-C6-N1	6.39	114.69	111.50
26	BB	336	C	C2-N3-C4	6.39	123.09	119.90
26	BB	739	A	O4'-C1'-N9	6.39	113.31	108.20
26	BB	813	U	N1-C2-N3	6.39	118.73	114.90
26	BB	1016	G	C5-C6-N1	6.39	114.69	111.50
26	BB	1693	U	C4-C5-C6	6.39	123.53	119.70
26	BB	2109	U	C4-C5-C6	6.39	123.53	119.70
26	BB	2121	G	N9-C4-C5	6.39	107.96	105.40
26	BB	2385	C	N1-C1'-C2'	-6.39	104.97	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2699	C	C2-N3-C4	6.39	123.09	119.90
1	AA	41	G	C4'-C3'-C2'	-6.39	96.21	102.60
1	AA	385	C	P-O3'-C3'	6.39	127.36	119.70
1	AA	779	C	C5-C6-N1	6.39	124.19	121.00
26	BB	264	C	C2-N3-C4	6.39	123.09	119.90
26	BB	834	G	C5-C6-O6	-6.39	124.77	128.60
26	BB	854	C	C5-C4-N4	-6.39	115.73	120.20
26	BB	1361	G	N3-C4-N9	-6.39	122.17	126.00
26	BB	2788	C	N1-C2-N3	-6.39	114.73	119.20
1	AA	96	U	C2-N3-C4	-6.39	123.17	127.00
1	AA	227	G	O3'-P-O5'	-6.39	91.86	104.00
1	AA	341	C	N1-C2-O2	6.39	122.73	118.90
1	AA	445	G	O4'-C1'-C2'	6.39	113.35	107.60
1	AA	698	G	C5-C6-O6	6.39	132.43	128.60
1	AA	1024	G	N1-C6-O6	-6.39	116.07	119.90
26	BB	507	A	C1'-O4'-C4'	-6.39	104.79	109.90
26	BB	530	G	C5-C6-O6	-6.39	124.77	128.60
26	BB	971	G	C4-C5-N7	-6.39	108.25	110.80
26	BB	1143	A	C5-N7-C8	-6.39	100.71	103.90
26	BB	1400	U	C4'-C3'-C2'	-6.39	96.21	102.60
26	BB	1546	G	C1'-O4'-C4'	-6.39	104.79	109.90
26	BB	1897	G	N1-C2-N2	6.39	121.95	116.20
26	BB	2317	A	O4'-C4'-C3'	6.39	111.21	106.10
1	AA	1221	G	O4'-C1'-C2'	-6.38	99.42	105.80
1	AA	1454	G	N1-C2-N2	6.38	121.95	116.20
1	AA	1525	G	C6-N1-C2	-6.38	121.27	125.10
2	AB	23	A	C4'-C3'-C2'	-6.38	96.22	102.60
3	AC	51	C	C5-C6-N1	6.38	124.19	121.00
25	BA	50	A	C5-C6-N1	6.38	120.89	117.70
26	BB	274	C	O4'-C4'-C3'	6.38	111.21	106.10
26	BB	450	G	C5-N7-C8	-6.38	101.11	104.30
26	BB	481	G	C3'-C2'-C1'	6.38	106.61	101.50
26	BB	1107	G	O4'-C1'-N9	6.38	113.31	108.20
26	BB	1584	U	N3-C4-O4	6.38	123.87	119.40
26	BB	2031	A	C4-C5-N7	-6.38	107.51	110.70
26	BB	2629	U	N1-C2-O2	-6.38	118.33	122.80
1	AA	591	U	N3-C2-O2	-6.38	117.73	122.20
25	BA	85	G	N7-C8-N9	6.38	116.29	113.10
26	BB	1743	G	N3-C2-N2	-6.38	115.43	119.90
26	BB	2167	U	O4'-C1'-N1	6.38	113.31	108.20
26	BB	2240	U	C4-C5-C6	6.38	123.53	119.70
26	BB	2829	A	C4-C5-C6	6.38	120.19	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	981	U	O4'-C4'-C3'	6.38	111.21	106.10
2	AB	34	C	P-O3'-C3'	6.38	127.36	119.70
26	BB	609	A	N7-C8-N9	6.38	116.99	113.80
26	BB	1337	G	C6-N1-C2	-6.38	121.27	125.10
26	BB	1462	C	C5-C6-N1	6.38	124.19	121.00
26	BB	1571	A	N1-C2-N3	-6.38	126.11	129.30
26	BB	1853	A	C6-C5-N7	-6.38	127.83	132.30
28	BD	166	ARG	NE-CZ-NH1	-6.38	117.11	120.30
1	AA	468	A	O4'-C1'-N9	6.38	113.30	108.20
1	AA	542	G	C4-C5-N7	-6.38	108.25	110.80
1	AA	653	U	C5-C4-O4	-6.38	122.07	125.90
1	AA	929	G	C4'-C3'-C2'	-6.38	96.22	102.60
26	BB	900	A	C5-C6-N6	-6.38	118.60	123.70
26	BB	1116	G	N9-C4-C5	6.38	107.95	105.40
26	BB	1580	A	C5-C6-N6	-6.38	118.60	123.70
26	BB	2253	G	C2-N3-C4	6.38	115.09	111.90
26	BB	2526	G	C5-C6-O6	6.38	132.43	128.60
26	BB	2819	G	P-O3'-C3'	6.38	127.36	119.70
1	AA	475	C	C2-N3-C4	6.38	123.09	119.90
1	AA	772	U	C5'-C4'-O4'	6.38	116.75	109.10
25	BA	100	G	C4-C5-C6	6.38	122.63	118.80
26	BB	582	A	C4-C5-N7	-6.38	107.51	110.70
26	BB	595	C	N3-C2-O2	-6.38	117.44	121.90
26	BB	864	G	O4'-C1'-N9	-6.38	103.10	108.20
26	BB	1016	G	N7-C8-N9	6.38	116.29	113.10
26	BB	1260	A	C8-N9-C4	-6.38	103.25	105.80
26	BB	1453	A	N1-C2-N3	-6.38	126.11	129.30
26	BB	1707	G	C2-N3-C4	6.38	115.09	111.90
26	BB	1862	G	N9-C1'-C2'	-6.38	104.98	112.00
26	BB	2331	G	C8-N9-C4	-6.38	103.85	106.40
1	AA	286	C	N3-C4-N4	6.38	122.46	118.00
1	AA	594	U	N1-C2-N3	6.38	118.73	114.90
1	AA	970	C	N3-C4-C5	6.38	124.45	121.90
1	AA	976	G	N3-C4-N9	-6.38	122.17	126.00
1	AA	1308	U	C5-C6-N1	-6.38	119.51	122.70
4	AD	45	A	N3-C4-C5	-6.38	122.34	126.80
6	AF	58	ARG	NE-CZ-NH1	6.38	123.49	120.30
26	BB	328	U	O4'-C1'-N1	6.38	113.30	108.20
26	BB	1812	U	N1-C2-N3	6.38	118.73	114.90
26	BB	1828	G	C5-C6-N1	6.38	114.69	111.50
26	BB	2570	G	O4'-C1'-N9	6.38	113.30	108.20
26	BB	2796	U	O4'-C1'-N1	6.38	113.30	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	BX	57	TYR	CB-CG-CD1	-6.38	117.17	121.00
1	AA	417	G	N3-C4-N9	6.38	129.82	126.00
1	AA	765	G	N3-C4-C5	-6.38	125.41	128.60
25	BA	44	G	O4'-C1'-N9	6.38	113.30	108.20
26	BB	426	C	C4'-C3'-C2'	-6.38	96.22	102.60
26	BB	1019	U	C3'-C2'-C1'	6.38	106.60	101.50
26	BB	2416	C	C5-C6-N1	6.38	124.19	121.00
26	BB	2694	G	C5-N7-C8	-6.38	101.11	104.30
1	AA	217	C	N3-C2-O2	-6.37	117.44	121.90
1	AA	1421	G	N1-C6-O6	6.37	123.72	119.90
1	AA	1478	U	N3-C4-C5	-6.37	110.78	114.60
25	BA	63	C	O4'-C1'-N1	6.37	113.30	108.20
26	BB	796	C	N3-C4-N4	6.37	122.46	118.00
26	BB	1402	U	C5'-C4'-O4'	6.37	116.75	109.10
26	BB	1406	U	N3-C4-O4	6.37	123.86	119.40
26	BB	1513	U	P-O3'-C3'	6.37	127.35	119.70
26	BB	1945	G	C6-C5-N7	-6.37	126.58	130.40
26	BB	2124	G	C4-C5-N7	-6.37	108.25	110.80
26	BB	2540	C	N3-C4-N4	6.37	122.46	118.00
26	BB	2596	U	C5-C6-N1	-6.37	119.51	122.70
1	AA	905	U	C6-N1-C2	-6.37	117.18	121.00
1	AA	1317	C	N1-C2-O2	6.37	122.72	118.90
26	BB	501	A	N1-C2-N3	-6.37	126.11	129.30
26	BB	1516	G	N9-C4-C5	6.37	107.95	105.40
26	BB	1628	G	O4'-C4'-C3'	-6.37	97.63	104.00
26	BB	2192	U	N3-C4-O4	6.37	123.86	119.40
26	BB	2694	G	C5-C6-N1	6.37	114.69	111.50
1	AA	399	G	N7-C8-N9	-6.37	109.92	113.10
1	AA	1060	U	N1-C2-O2	6.37	127.26	122.80
1	AA	1477	U	O4'-C1'-N1	6.37	113.30	108.20
25	BA	1	U	C4-C5-C6	6.37	123.52	119.70
25	BA	8	C	C5-C6-N1	-6.37	117.81	121.00
26	BB	2067	G	C1'-O4'-C4'	-6.37	104.80	109.90
26	BB	2367	G	C4-C5-N7	-6.37	108.25	110.80
1	AA	133	U	C2-N3-C4	-6.37	123.18	127.00
1	AA	923	A	C5'-C4'-O4'	6.37	116.74	109.10
2	AB	57	G	C3'-C2'-C1'	-6.37	96.41	101.50
9	AI	79	ARG	NE-CZ-NH1	-6.37	117.11	120.30
26	BB	316	C	N3-C2-O2	-6.37	117.44	121.90
26	BB	501	A	C4-C5-C6	-6.37	113.82	117.00
26	BB	1705	A	O4'-C1'-N9	6.37	113.30	108.20
26	BB	2186	G	C5-N7-C8	-6.37	101.12	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2521	C	C3'-C2'-C1'	6.37	106.59	101.50
26	BB	2550	G	N1-C2-N3	-6.37	120.08	123.90
26	BB	2879	A	O3'-P-O5'	-6.37	91.90	104.00
28	BD	247	TRP	CB-CG-CD2	6.37	134.88	126.60
1	AA	690	G	C8-N9-C4	-6.37	103.85	106.40
1	AA	1533	C	C1'-O4'-C4'	6.37	114.99	109.90
25	BA	92	C	C4'-C3'-C2'	-6.37	96.23	102.60
26	BB	35	G	N7-C8-N9	-6.37	109.92	113.10
26	BB	2529	G	N7-C8-N9	6.37	116.28	113.10
26	BB	2823	A	C4-C5-N7	-6.37	107.52	110.70
1	AA	564	C	N3-C2-O2	-6.37	117.44	121.90
1	AA	733	G	O4'-C1'-N9	6.37	113.29	108.20
1	AA	910	C	P-O3'-C3'	6.37	127.34	119.70
1	AA	1528	U	N1-C2-N3	6.37	118.72	114.90
4	AD	26	C	C5-C6-N1	-6.37	117.82	121.00
6	AF	53	ARG	CD-NE-CZ	6.37	132.51	123.60
26	BB	257	C	C4-C5-C6	-6.37	114.22	117.40
26	BB	985	C	C4-C5-C6	-6.37	114.22	117.40
26	BB	1665	A	C2-N3-C4	6.37	113.78	110.60
26	BB	2276	G	O4'-C1'-C2'	-6.37	99.44	105.80
26	BB	2415	G	N3-C4-C5	-6.37	125.42	128.60
26	BB	2585	U	N3-C2-O2	-6.37	117.74	122.20
26	BB	2721	A	C4'-C3'-C2'	-6.37	96.23	102.60
1	AA	80	A	N3-C4-C5	-6.36	122.35	126.80
1	AA	693	G	C5-C6-N1	-6.36	108.32	111.50
1	AA	1294	G	C2-N3-C4	-6.36	108.72	111.90
4	AD	17	C	C1'-O4'-C4'	6.36	114.99	109.90
25	BA	76	G	N1-C2-N2	-6.36	110.47	116.20
26	BB	359	G	C6-C5-N7	-6.36	126.58	130.40
26	BB	896	A	O4'-C1'-N9	6.36	113.29	108.20
26	BB	922	C	C6-N1-C2	-6.36	117.75	120.30
26	BB	970	U	C4-C5-C6	6.36	123.52	119.70
26	BB	972	A	C5-N7-C8	-6.36	100.72	103.90
26	BB	1054	A	N1-C2-N3	-6.36	126.12	129.30
26	BB	1221	C	N3-C4-N4	6.36	122.45	118.00
26	BB	1573	G	N3-C4-N9	6.36	129.82	126.00
26	BB	1625	C	N1-C2-N3	-6.36	114.75	119.20
26	BB	2842	G	N1-C6-O6	-6.36	116.08	119.90
26	BB	2868	A	N1-C2-N3	-6.36	126.12	129.30
1	AA	326	G	N9-C4-C5	6.36	107.94	105.40
1	AA	1013	G	C2-N3-C4	6.36	115.08	111.90
1	AA	1021	A	C4-C5-C6	6.36	120.18	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	273	G	C5-C6-N1	6.36	114.68	111.50
26	BB	1284	A	C5'-C4'-O4'	6.36	116.73	109.10
26	BB	1862	G	N1-C2-N3	-6.36	120.08	123.90
26	BB	1938	A	C1'-O4'-C4'	-6.36	104.81	109.90
26	BB	2738	A	N3-C4-N9	-6.36	122.31	127.40
1	AA	219	U	C5-C4-O4	6.36	129.72	125.90
1	AA	418	C	N1-C2-N3	6.36	123.65	119.20
1	AA	574	A	C5-N7-C8	-6.36	100.72	103.90
1	AA	604	G	N3-C2-N2	-6.36	115.45	119.90
1	AA	1071	C	O4'-C4'-C3'	6.36	111.19	106.10
1	AA	1088	G	C2-N3-C4	-6.36	108.72	111.90
1	AA	1158	C	C1'-O4'-C4'	-6.36	104.81	109.90
1	AA	1189	U	N1-C2-N3	6.36	118.72	114.90
1	AA	1197	A	N9-C4-C5	-6.36	103.26	105.80
1	AA	1238	A	C8-N9-C4	-6.36	103.26	105.80
1	AA	1537	U	N3-C4-C5	-6.36	110.78	114.60
17	AQ	72	PHE	CB-CG-CD1	-6.36	116.35	120.80
26	BB	203	A	O4'-C1'-N9	6.36	113.29	108.20
26	BB	383	C	N3-C4-N4	6.36	122.45	118.00
26	BB	968	C	P-O3'-C3'	6.36	127.33	119.70
26	BB	1371	G	N3-C4-C5	-6.36	125.42	128.60
26	BB	1381	G	N9-C4-C5	6.36	107.94	105.40
26	BB	1749	A	C5'-C4'-O4'	6.36	116.73	109.10
26	BB	1756	G	P-O5'-C5'	6.36	131.08	120.90
26	BB	1782	U	C6-N1-C1'	6.36	130.10	121.20
1	AA	547	A	N3-C4-C5	-6.36	122.35	126.80
1	AA	917	G	O4'-C4'-C3'	6.36	111.19	106.10
1	AA	1084	G	C6-N1-C2	-6.36	121.28	125.10
1	AA	1084	G	N3-C4-C5	-6.36	125.42	128.60
1	AA	1399	C	C2-N3-C4	6.36	123.08	119.90
26	BB	1219	U	N1-C2-N3	6.36	118.72	114.90
26	BB	1415	U	N3-C4-O4	6.36	123.85	119.40
26	BB	1516	G	N1-C2-N3	-6.36	120.08	123.90
26	BB	1916	A	N9-C4-C5	6.36	108.34	105.80
26	BB	2425	A	N9-C1'-C2'	6.36	122.27	114.00
26	BB	2700	A	C4'-C3'-C2'	-6.36	96.24	102.60
26	BB	2751	G	O4'-C1'-C2'	-6.36	99.44	105.80
1	AA	654	G	C8-N9-C4	-6.36	103.86	106.40
1	AA	947	G	C5'-C4'-O4'	-6.36	101.47	109.10
1	AA	1301	U	C5'-C4'-O4'	6.36	116.73	109.10
1	AA	1353	G	O4'-C1'-N9	6.36	113.29	108.20
1	AA	1395	C	C4-C5-C6	-6.36	114.22	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1417	G	N3-C4-N9	6.36	129.81	126.00
3	AC	32	U	C2-N3-C4	-6.36	123.19	127.00
25	BA	85	G	N3-C4-C5	-6.36	125.42	128.60
26	BB	17	G	C2-N3-C4	6.36	115.08	111.90
26	BB	561	G	C5'-C4'-O4'	6.36	116.73	109.10
26	BB	1449	G	C4-C5-C6	6.36	122.61	118.80
26	BB	1846	G	C5-C6-O6	-6.36	124.79	128.60
26	BB	2649	C	C6-N1-C2	-6.36	117.76	120.30
26	BB	2812	G	C8-N9-C4	-6.36	103.86	106.40
1	AA	275	G	C4-C5-N7	-6.36	108.26	110.80
1	AA	789	U	N3-C4-C5	-6.36	110.79	114.60
1	AA	871	U	N1-C2-N3	6.36	118.71	114.90
1	AA	975	A	N1-C2-N3	-6.36	126.12	129.30
2	AB	75	C	C5-C6-N1	-6.36	117.82	121.00
6	AF	142	ARG	NE-CZ-NH1	-6.36	117.12	120.30
26	BB	43	G	C6-N1-C2	-6.36	121.29	125.10
26	BB	182	A	C2-N3-C4	6.36	113.78	110.60
26	BB	270	A	C2-N3-C4	6.36	113.78	110.60
26	BB	279	A	C5-N7-C8	6.36	107.08	103.90
26	BB	289	G	N7-C8-N9	6.36	116.28	113.10
26	BB	1410	G	C5-C6-N1	6.36	114.68	111.50
26	BB	2558	C	O4'-C1'-N1	6.36	113.28	108.20
1	AA	1527	U	C2-N3-C4	-6.35	123.19	127.00
18	AR	83	ARG	NE-CZ-NH1	6.35	123.48	120.30
26	BB	873	C	C4-C5-C6	-6.35	114.22	117.40
26	BB	994	C	C5'-C4'-O4'	6.35	116.72	109.10
26	BB	1193	G	N1-C2-N2	6.35	121.92	116.20
26	BB	1327	A	C5-C6-N6	6.35	128.78	123.70
26	BB	1384	A	N9-C4-C5	6.35	108.34	105.80
26	BB	2027	G	N3-C4-C5	-6.35	125.42	128.60
26	BB	2358	A	N1-C6-N6	6.35	122.41	118.60
26	BB	2429	G	P-O3'-C3'	6.35	127.32	119.70
1	AA	57	G	N7-C8-N9	6.35	116.28	113.10
1	AA	741	G	C4-C5-C6	6.35	122.61	118.80
1	AA	880	C	N3-C4-C5	-6.35	119.36	121.90
1	AA	1482	G	C1'-O4'-C4'	6.35	114.98	109.90
26	BB	17	G	C5'-C4'-O4'	6.35	116.72	109.10
26	BB	373	U	N3-C4-O4	6.35	123.85	119.40
26	BB	408	G	O4'-C1'-N9	6.35	113.28	108.20
26	BB	1716	U	O5'-P-OP1	6.35	118.32	110.70
26	BB	2032	G	C5-C6-N1	6.35	114.68	111.50
26	BB	2126	A	C1'-O4'-C4'	-6.35	104.82	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2433	A	C8-N9-C4	-6.35	103.26	105.80
26	BB	2869	G	N9-C1'-C2'	-6.35	105.01	112.00
1	AA	885	G	N3-C4-N9	6.35	129.81	126.00
1	AA	1056	U	C6-N1-C2	-6.35	117.19	121.00
1	AA	1344	C	C4'-C3'-C2'	-6.35	96.25	102.60
25	BA	39	A	C4'-C3'-C2'	-6.35	96.25	102.60
26	BB	841	G	N7-C8-N9	6.35	116.28	113.10
26	BB	1419	A	C5-N7-C8	6.35	107.08	103.90
1	AA	18	C	C5-C6-N1	6.35	124.17	121.00
1	AA	180	U	C5-C4-O4	-6.35	122.09	125.90
1	AA	338	A	O4'-C1'-C2'	-6.35	99.45	105.80
1	AA	873	A	C6-C5-N7	6.35	136.75	132.30
1	AA	1022	A	C1'-O4'-C4'	-6.35	104.82	109.90
1	AA	1114	C	C5'-C4'-O4'	6.35	116.72	109.10
26	BB	83	A	N7-C8-N9	6.35	116.97	113.80
26	BB	219	A	C2-N3-C4	-6.35	107.43	110.60
26	BB	500	G	C6-N1-C2	-6.35	121.29	125.10
26	BB	765	C	C3'-C2'-C1'	6.35	106.58	101.50
26	BB	803	U	C3'-C2'-C1'	6.35	106.58	101.50
26	BB	859	G	N1-C6-O6	6.35	123.71	119.90
26	BB	1139	G	O4'-C1'-C2'	6.35	113.31	107.60
26	BB	1179	G	C4-C5-N7	-6.35	108.26	110.80
26	BB	1920	C	C3'-C2'-C1'	6.35	106.58	101.50
26	BB	2874	C	N3-C4-N4	-6.35	113.56	118.00
1	AA	241	G	N1-C2-N2	6.35	121.91	116.20
1	AA	285	C	N1-C2-O2	6.35	122.71	118.90
1	AA	329	A	N1-C6-N6	-6.35	114.79	118.60
1	AA	1178	G	C4-C5-N7	-6.35	108.26	110.80
1	AA	1256	A	O4'-C1'-N9	6.35	113.28	108.20
1	AA	1400	C	C4-C5-C6	-6.35	114.23	117.40
3	AC	24	A	C8-N9-C4	6.35	108.34	105.80
25	BA	42	C	C2'-C3'-O3'	6.35	123.86	113.70
26	BB	493	G	C4-C5-N7	-6.35	108.26	110.80
26	BB	615	U	C2-N1-C1'	6.35	125.32	117.70
26	BB	1142	A	C2-N3-C4	6.35	113.77	110.60
26	BB	1249	U	C5'-C4'-C3'	-6.35	105.84	116.00
26	BB	1374	G	N9-C4-C5	-6.35	102.86	105.40
26	BB	1995	U	C5-C6-N1	-6.35	119.53	122.70
26	BB	2240	U	C2-N3-C4	-6.35	123.19	127.00
1	AA	617	G	N3-C4-C5	6.35	131.77	128.60
1	AA	974	A	N9-C1'-C2'	6.35	122.25	114.00
1	AA	1374	A	N9-C1'-C2'	-6.35	105.02	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1474	U	C3'-C2'-C1'	6.35	106.58	101.50
1	AA	1538	C	C5-C6-N1	-6.35	117.83	121.00
4	AD	32	G	N3-C4-C5	-6.35	125.43	128.60
26	BB	51	G	C2-N3-C4	-6.35	108.73	111.90
26	BB	664	G	C2-N3-C4	6.35	115.07	111.90
26	BB	1813	G	C4'-C3'-C2'	-6.35	96.25	102.60
26	BB	2131	U	N3-C2-O2	-6.35	117.76	122.20
1	AA	680	C	N3-C4-C5	-6.34	119.36	121.90
1	AA	1074	G	N9-C4-C5	6.34	107.94	105.40
1	AA	1316	G	C3'-C2'-C1'	6.34	106.58	101.50
1	AA	1328	C	C6-N1-C2	-6.34	117.76	120.30
14	AN	112	VAL	CA-CB-CG2	6.34	120.42	110.90
26	BB	232	G	O4'-C1'-C2'	6.34	113.31	107.60
26	BB	1333	G	N3-C4-N9	6.34	129.81	126.00
26	BB	1486	U	O4'-C1'-N1	6.34	113.28	108.20
26	BB	2041	U	N3-C2-O2	-6.34	117.76	122.20
26	BB	2270	A	C2-N3-C4	6.34	113.77	110.60
26	BB	2900	A	O4'-C1'-N9	-6.34	103.12	108.20
1	AA	504	C	C5-C4-N4	-6.34	115.76	120.20
1	AA	1336	C	O4'-C1'-N1	6.34	113.28	108.20
25	BA	21	G	C4'-C3'-C2'	-6.34	96.26	102.60
26	BB	560	C	C2-N3-C4	6.34	123.07	119.90
26	BB	795	C	C6-N1-C2	-6.34	117.76	120.30
26	BB	1025	G	N9-C4-C5	6.34	107.94	105.40
26	BB	1885	A	P-O3'-C3'	6.34	127.31	119.70
26	BB	2763	G	O4'-C1'-N9	6.34	113.27	108.20
1	AA	179	A	N3-C4-C5	-6.34	122.36	126.80
1	AA	402	G	N3-C2-N2	6.34	124.34	119.90
1	AA	410	G	O4'-C4'-C3'	6.34	111.17	106.10
1	AA	533	A	C5'-C4'-C3'	-6.34	105.86	116.00
1	AA	945	G	N3-C2-N2	6.34	124.34	119.90
3	AC	44	U	C5'-C4'-O4'	6.34	116.71	109.10
4	AD	39	A	C1'-O4'-C4'	-6.34	104.83	109.90
4	AD	42	C	O4'-C1'-N1	6.34	113.27	108.20
13	AM	16	ARG	CD-NE-CZ	6.34	132.48	123.60
26	BB	1678	A	C4-C5-N7	-6.34	107.53	110.70
26	BB	1769	U	N1-C2-O2	-6.34	118.36	122.80
26	BB	1981	A	N1-C2-N3	-6.34	126.13	129.30
26	BB	2193	G	C4-C5-C6	6.34	122.61	118.80
26	BB	2562	U	C2-N3-C4	-6.34	123.19	127.00
58	B7	10	LEU	CB-CG-CD2	6.34	121.78	111.00
1	AA	674	G	C4-C5-N7	-6.34	108.26	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1118	U	N3-C2-O2	6.34	126.64	122.20
1	AA	1232	U	C2-N3-C4	-6.34	123.20	127.00
3	AC	14	G	C5-C6-O6	-6.34	124.80	128.60
21	AU	42	ARG	NH1-CZ-NH2	-6.34	112.43	119.40
26	BB	196	A	P-O3'-C3'	6.34	127.31	119.70
26	BB	196	A	C4-C5-C6	-6.34	113.83	117.00
26	BB	338	G	C2-N3-C4	6.34	115.07	111.90
26	BB	616	A	C5-C6-N6	-6.34	118.63	123.70
26	BB	1280	G	N3-C4-N9	6.34	129.80	126.00
26	BB	1294	U	C2-N3-C4	6.34	130.80	127.00
26	BB	1522	A	C5-C6-N1	6.34	120.87	117.70
26	BB	1582	C	C5'-C4'-C3'	6.34	126.14	116.00
26	BB	1863	G	C8-N9-C4	-6.34	103.86	106.40
26	BB	2752	C	N3-C2-O2	-6.34	117.46	121.90
27	BC	180	PHE	CB-CG-CD2	6.34	125.24	120.80
1	AA	288	A	C2-N3-C4	6.34	113.77	110.60
1	AA	305	G	N3-C4-N9	-6.34	122.20	126.00
1	AA	472	U	N1-C2-N3	6.34	118.70	114.90
1	AA	1468	A	C5-C6-N1	6.34	120.87	117.70
4	AD	12	G	N3-C4-C5	-6.34	125.43	128.60
26	BB	54	G	C4-C5-N7	-6.34	108.27	110.80
26	BB	359	G	C4-C5-N7	6.34	113.33	110.80
26	BB	758	C	N1-C1'-C2'	-6.34	105.03	112.00
26	BB	1365	A	N9-C4-C5	-6.34	103.27	105.80
26	BB	2004	G	C5'-C4'-O4'	6.34	116.70	109.10
26	BB	2062	A	C3'-C2'-C1'	6.34	106.57	101.50
1	AA	33	A	N7-C8-N9	6.34	116.97	113.80
1	AA	454	G	C6-C5-N7	6.34	134.20	130.40
1	AA	695	A	N3-C4-N9	-6.34	122.33	127.40
1	AA	727	G	N9-C4-C5	-6.34	102.86	105.40
1	AA	806	C	C1'-O4'-C4'	-6.34	104.83	109.90
1	AA	1073	U	N1-C1'-C2'	-6.34	105.03	112.00
1	AA	1214	C	C2-N3-C4	6.34	123.07	119.90
1	AA	1249	C	C5-C4-N4	-6.34	115.77	120.20
1	AA	1260	G	C4'-C3'-C2'	-6.34	96.26	102.60
25	BA	69	G	N7-C8-N9	6.34	116.27	113.10
26	BB	223	A	C8-N9-C4	-6.34	103.27	105.80
26	BB	490	C	C5'-C4'-O4'	6.34	116.70	109.10
26	BB	1981	A	N3-C4-N9	-6.34	122.33	127.40
26	BB	2091	C	C5-C6-N1	-6.34	117.83	121.00
26	BB	2190	G	N3-C4-C5	-6.34	125.43	128.60
26	BB	2513	A	C3'-C2'-C1'	6.34	106.57	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2545	G	C2-N3-C4	6.34	115.07	111.90
26	BB	2623	G	C6-N1-C2	-6.34	121.30	125.10
1	AA	223	A	C8-N9-C4	-6.33	103.27	105.80
1	AA	294	U	C5-C4-O4	-6.33	122.10	125.90
26	BB	1144	A	C5-N7-C8	-6.33	100.73	103.90
26	BB	1583	A	C3'-C2'-C1'	6.33	106.57	101.50
26	BB	2266	A	C5-C6-N6	6.33	128.77	123.70
26	BB	2535	G	O4'-C1'-N9	6.33	113.27	108.20
1	AA	570	G	C5-N7-C8	-6.33	101.13	104.30
1	AA	755	G	C6-C5-N7	-6.33	126.60	130.40
1	AA	837	U	O4'-C1'-N1	6.33	113.27	108.20
1	AA	1417	G	N3-C4-C5	-6.33	125.43	128.60
2	AB	38	A	P-O3'-C3'	6.33	127.30	119.70
22	AV	80	ARG	NE-CZ-NH1	-6.33	117.13	120.30
26	BB	898	C	C4-C5-C6	-6.33	114.23	117.40
26	BB	1469	A	N9-C4-C5	-6.33	103.27	105.80
26	BB	1747	U	C5-C6-N1	-6.33	119.53	122.70
26	BB	1865	U	P-O3'-C3'	6.33	127.30	119.70
26	BB	2128	G	O3'-P-O5'	-6.33	91.97	104.00
26	BB	341	C	O4'-C1'-N1	6.33	113.27	108.20
26	BB	450	G	N3-C4-C5	-6.33	125.43	128.60
26	BB	1470	A	C5-C6-N6	-6.33	118.64	123.70
26	BB	2511	U	C5'-C4'-O4'	6.33	116.70	109.10
26	BB	2553	G	C6-C5-N7	-6.33	126.60	130.40
1	AA	450	G	N3-C4-C5	-6.33	125.44	128.60
1	AA	505	G	C4'-C3'-C2'	-6.33	96.27	102.60
1	AA	571	U	C5-C6-N1	-6.33	119.53	122.70
4	AD	24	C	C2-N3-C4	-6.33	116.73	119.90
26	BB	661	A	N7-C8-N9	-6.33	110.64	113.80
26	BB	839	U	O4'-C4'-C3'	6.33	111.16	106.10
26	BB	1757	A	C8-N9-C4	-6.33	103.27	105.80
26	BB	2544	G	C2-N3-C4	6.33	115.06	111.90
26	BB	2700	A	C3'-C2'-C1'	6.33	106.56	101.50
26	BB	2843	G	C2-N3-C4	6.33	115.06	111.90
26	BB	2903	U	O4'-C1'-N1	6.33	113.26	108.20
1	AA	104	G	C4-C5-N7	-6.33	108.27	110.80
1	AA	251	G	N1-C2-N2	-6.33	110.50	116.20
1	AA	575	G	C5'-C4'-O4'	6.33	116.69	109.10
1	AA	1056	U	N3-C4-C5	-6.33	110.80	114.60
1	AA	1370	G	N1-C2-N2	-6.33	110.50	116.20
25	BA	76	G	N7-C8-N9	6.33	116.26	113.10
26	BB	776	G	C5-C6-N1	6.33	114.66	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	789	A	C5-N7-C8	6.33	107.06	103.90
26	BB	892	A	N1-C6-N6	6.33	122.40	118.60
26	BB	1790	C	N1-C2-N3	-6.33	114.77	119.20
26	BB	2018	G	C4-C5-C6	6.33	122.60	118.80
26	BB	2523	G	C8-N9-C4	6.33	108.93	106.40
26	BB	2571	U	N3-C4-O4	-6.33	114.97	119.40
26	BB	2729	G	C4-C5-C6	6.33	122.60	118.80
1	AA	247	G	N1-C2-N3	6.33	127.70	123.90
1	AA	850	U	C1'-O4'-C4'	-6.33	104.84	109.90
1	AA	1537	U	O4'-C4'-C3'	-6.33	97.67	104.00
26	BB	1140	C	N3-C4-C5	-6.33	119.37	121.90
26	BB	1186	G	P-O3'-C3'	6.33	127.29	119.70
1	AA	252	U	C4-C5-C6	6.33	123.50	119.70
1	AA	1016	A	N9-C4-C5	6.33	108.33	105.80
25	BA	8	C	C6-N1-C2	6.33	122.83	120.30
26	BB	65	U	N1-C2-O2	-6.33	118.37	122.80
26	BB	430	A	N1-C6-N6	-6.33	114.81	118.60
26	BB	636	G	C5-C6-O6	6.33	132.40	128.60
26	BB	701	G	C5-C6-N1	6.33	114.66	111.50
26	BB	1004	U	N3-C4-O4	6.33	123.83	119.40
26	BB	1211	C	C1'-O4'-C4'	6.33	114.96	109.90
26	BB	1404	C	O4'-C1'-N1	6.33	113.26	108.20
26	BB	1839	G	C2-N3-C4	6.33	115.06	111.90
26	BB	2150	C	C2-N3-C4	6.33	123.06	119.90
26	BB	2704	C	C1'-O4'-C4'	-6.33	104.84	109.90
1	AA	1003	G	N1-C2-N2	6.32	121.89	116.20
26	BB	294	A	C5-C6-N6	-6.32	118.64	123.70
26	BB	661	A	C8-N9-C4	6.32	108.33	105.80
26	BB	992	C	C4-C5-C6	6.32	120.56	117.40
26	BB	1048	A	C3'-C2'-C1'	6.32	106.56	101.50
26	BB	1048	A	C5'-C4'-O4'	6.32	116.69	109.10
26	BB	1959	G	N9-C4-C5	6.32	107.93	105.40
26	BB	2065	C	C5-C4-N4	-6.32	115.77	120.20
26	BB	2484	G	N1-C2-N3	-6.32	120.11	123.90
26	BB	2542	A	C8-N9-C4	6.32	108.33	105.80
45	BU	88	ARG	NE-CZ-NH1	6.32	123.46	120.30
1	AA	373	A	C5'-C4'-O4'	6.32	116.69	109.10
1	AA	1018	G	C4-C5-N7	-6.32	108.27	110.80
26	BB	1759	A	C5-N7-C8	6.32	107.06	103.90
26	BB	2627	G	C1'-O4'-C4'	-6.32	104.84	109.90
1	AA	12	U	N1-C2-N3	6.32	118.69	114.90
1	AA	53	A	N1-C6-N6	6.32	122.39	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	904	U	C5-C6-N1	-6.32	119.54	122.70
1	AA	1437	A	C5-C6-N1	-6.32	114.54	117.70
26	BB	176	A	C5-C6-N1	6.32	120.86	117.70
26	BB	553	G	C2-N3-C4	6.32	115.06	111.90
26	BB	617	G	N1-C6-O6	6.32	123.69	119.90
26	BB	630	G	N3-C2-N2	-6.32	115.47	119.90
26	BB	748	G	C5-C6-O6	6.32	132.39	128.60
26	BB	776	G	C5-C6-O6	6.32	132.39	128.60
26	BB	881	G	N7-C8-N9	6.32	116.26	113.10
26	BB	945	A	N9-C4-C5	-6.32	103.27	105.80
26	BB	1061	U	C2-N1-C1'	6.32	125.28	117.70
26	BB	1206	G	N1-C6-O6	6.32	123.69	119.90
26	BB	1702	G	C2-N3-C4	6.32	115.06	111.90
26	BB	2034	U	C2-N3-C4	-6.32	123.21	127.00
26	BB	2673	G	C8-N9-C4	6.32	108.93	106.40
50	BZ	42	GLU	CA-CB-CG	6.32	127.31	113.40
26	BB	49	A	C5-C6-N1	-6.32	114.54	117.70
26	BB	114	U	C4'-C3'-C2'	-6.32	96.28	102.60
26	BB	268	C	N3-C4-N4	6.32	122.42	118.00
26	BB	555	G	C4'-C3'-C2'	-6.32	96.28	102.60
26	BB	1891	G	C5-N7-C8	-6.32	101.14	104.30
26	BB	2506	U	O4'-C1'-N1	6.32	113.25	108.20
1	AA	826	C	N3-C2-O2	-6.32	117.48	121.90
4	AD	15	G	O4'-C1'-N9	6.32	113.25	108.20
26	BB	219	A	C5-C6-N1	6.32	120.86	117.70
26	BB	1251	C	O4'-C1'-N1	-6.32	103.15	108.20
26	BB	1373	A	C5-N7-C8	-6.32	100.74	103.90
26	BB	1497	U	C4-C5-C6	6.32	123.49	119.70
26	BB	1624	U	C2-N1-C1'	-6.32	110.12	117.70
26	BB	1647	U	C4-C5-C6	6.32	123.49	119.70
26	BB	1730	C	C6-N1-C2	-6.32	117.77	120.30
1	AA	325	A	O4'-C1'-N9	6.32	113.25	108.20
1	AA	349	A	N9-C4-C5	6.32	108.33	105.80
1	AA	381	C	C6-N1-C2	-6.32	117.77	120.30
1	AA	468	A	C6-C5-N7	6.32	136.72	132.30
1	AA	848	C	N3-C2-O2	-6.32	117.48	121.90
1	AA	889	A	P-O3'-C3'	6.32	127.28	119.70
1	AA	1389	C	O4'-C1'-N1	6.32	113.25	108.20
1	AA	1433	A	C5-C6-N1	6.32	120.86	117.70
26	BB	764	A	C4-C5-C6	6.32	120.16	117.00
26	BB	829	A	C4-C5-C6	-6.32	113.84	117.00
26	BB	1448	G	N7-C8-N9	6.32	116.26	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1496	A	C5'-C4'-O4'	6.32	116.68	109.10
26	BB	2127	G	C5-C6-O6	-6.32	124.81	128.60
26	BB	2714	G	C1'-O4'-C4'	6.32	114.95	109.90
26	BB	2754	U	N1-C1'-C2'	-6.32	105.05	112.00
1	AA	1494	G	N7-C8-N9	6.31	116.26	113.10
25	BA	23	G	C5'-C4'-O4'	6.31	116.68	109.10
26	BB	113	U	C4-C5-C6	6.31	123.49	119.70
26	BB	511	U	C5-C6-N1	-6.31	119.54	122.70
26	BB	2106	U	C5-C4-O4	-6.31	122.11	125.90
26	BB	2608	G	C5-C6-O6	6.31	132.39	128.60
1	AA	211	G	C6-C5-N7	-6.31	126.61	130.40
1	AA	242	G	C8-N9-C4	-6.31	103.88	106.40
1	AA	722	G	C2'-C3'-O3'	6.31	123.80	113.70
4	AD	31	G	C6-N1-C2	-6.31	121.31	125.10
25	BA	94	A	C5'-C4'-C3'	-6.31	105.90	116.00
26	BB	684	G	N3-C4-N9	-6.31	122.21	126.00
26	BB	705	A	N7-C8-N9	6.31	116.96	113.80
26	BB	1000	A	O4'-C1'-N9	6.31	113.25	108.20
26	BB	1340	U	N1-C2-O2	-6.31	118.38	122.80
26	BB	1379	U	P-O3'-C3'	6.31	127.27	119.70
26	BB	1452	G	N7-C8-N9	6.31	116.26	113.10
26	BB	1703	G	C3'-C2'-C1'	6.31	106.55	101.50
26	BB	2158	A	N1-C6-N6	-6.31	114.81	118.60
26	BB	2214	C	P-O3'-C3'	6.31	127.28	119.70
26	BB	2545	G	C5-N7-C8	-6.31	101.14	104.30
48	BX	72	VAL	CA-CB-CG1	6.31	120.37	110.90
1	AA	98	A	C8-N9-C4	-6.31	103.28	105.80
1	AA	1408	A	C4-C5-N7	-6.31	107.55	110.70
26	BB	1179	G	N7-C8-N9	6.31	116.25	113.10
1	AA	456	A	C4-C5-N7	-6.31	107.55	110.70
1	AA	491	G	N1-C6-O6	-6.31	116.11	119.90
1	AA	611	C	O4'-C4'-C3'	6.31	111.15	106.10
1	AA	794	A	O4'-C1'-N9	6.31	113.25	108.20
1	AA	978	A	P-O3'-C3'	6.31	127.27	119.70
1	AA	986	U	O4'-C4'-C3'	-6.31	97.69	104.00
1	AA	1105	A	C5-N7-C8	-6.31	100.75	103.90
1	AA	1385	G	N3-C2-N2	-6.31	115.48	119.90
25	BA	12	C	C4'-C3'-C2'	-6.31	96.29	102.60
26	BB	797	G	C5-C6-O6	-6.31	124.81	128.60
26	BB	1192	G	C4-C5-N7	-6.31	108.28	110.80
26	BB	1287	A	C2-N3-C4	6.31	113.75	110.60
26	BB	1352	U	C4'-C3'-C2'	-6.31	96.29	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2230	G	N3-C4-C5	-6.31	125.44	128.60
1	AA	844	G	N3-C4-C5	-6.31	125.45	128.60
26	BB	227	A	C1'-O4'-C4'	-6.31	104.85	109.90
26	BB	1198	U	C2-N3-C4	-6.31	123.22	127.00
26	BB	1317	G	C5-C6-N1	6.31	114.65	111.50
26	BB	1731	G	C6-N1-C2	6.31	128.88	125.10
26	BB	1928	A	N3-C4-C5	-6.31	122.39	126.80
1	AA	395	C	C5-C4-N4	-6.31	115.79	120.20
26	BB	625	G	N1-C2-N2	-6.31	110.52	116.20
26	BB	1043	C	P-O3'-C3'	6.31	127.27	119.70
26	BB	1500	G	N3-C4-C5	-6.31	125.45	128.60
26	BB	2451	A	O4'-C1'-N9	6.31	113.24	108.20
1	AA	489	C	C4'-C3'-C2'	-6.30	96.30	102.60
1	AA	537	G	C5-N7-C8	-6.30	101.15	104.30
1	AA	659	U	C2-N3-C4	-6.30	123.22	127.00
1	AA	679	C	O4'-C1'-N1	6.30	113.24	108.20
1	AA	785	G	C5-C6-O6	-6.30	124.82	128.60
1	AA	1188	A	O4'-C1'-N9	6.30	113.24	108.20
1	AA	1340	A	C5'-C4'-O4'	6.30	116.67	109.10
26	BB	468	G	N3-C4-C5	-6.30	125.45	128.60
26	BB	883	G	C5'-C4'-C3'	-6.30	105.91	116.00
26	BB	966	G	C6-C5-N7	-6.30	126.62	130.40
26	BB	1377	G	O4'-C1'-C2'	6.30	113.28	107.60
26	BB	1425	G	O4'-C1'-N9	6.30	113.24	108.20
26	BB	1460	U	C5-C6-N1	-6.30	119.55	122.70
26	BB	1471	G	O4'-C1'-N9	6.30	113.24	108.20
26	BB	1485	U	N3-C4-O4	6.30	123.81	119.40
26	BB	1608	A	C5-N7-C8	6.30	107.05	103.90
26	BB	1668	A	N1-C6-N6	-6.30	114.82	118.60
26	BB	2247	A	C5-C6-N6	-6.30	118.66	123.70
26	BB	2304	G	C1'-O4'-C4'	-6.30	104.86	109.90
26	BB	2446	G	N3-C2-N2	6.30	124.31	119.90
26	BB	2667	C	N3-C4-N4	-6.30	113.59	118.00
26	BB	2770	G	C6-C5-N7	-6.30	126.62	130.40
1	AA	481	G	C5-C6-N1	6.30	114.65	111.50
26	BB	1460	U	P-O3'-C3'	6.30	127.26	119.70
26	BB	2174	C	C6-N1-C2	6.30	122.82	120.30
26	BB	2317	A	O4'-C1'-C2'	6.30	113.27	107.60
1	AA	79	G	N9-C4-C5	6.30	107.92	105.40
1	AA	367	U	C6-N1-C2	-6.30	117.22	121.00
1	AA	540	G	C6-C5-N7	-6.30	126.62	130.40
1	AA	736	C	N3-C2-O2	-6.30	117.49	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1280	A	C4-C5-N7	-6.30	107.55	110.70
1	AA	1382	C	C2-N3-C4	6.30	123.05	119.90
26	BB	58	G	C5-C6-N1	6.30	114.65	111.50
26	BB	89	A	N9-C4-C5	6.30	108.32	105.80
26	BB	164	C	C4'-C3'-C2'	-6.30	96.30	102.60
26	BB	490	C	C4-C5-C6	6.30	120.55	117.40
26	BB	537	G	N7-C8-N9	6.30	116.25	113.10
26	BB	975	A	N1-C2-N3	6.30	132.45	129.30
26	BB	1052	C	C2-N3-C4	-6.30	116.75	119.90
26	BB	1174	U	N3-C4-O4	6.30	123.81	119.40
26	BB	1780	A	C6-N1-C2	6.30	122.38	118.60
26	BB	2494	G	N9-C1'-C2'	-6.30	105.07	112.00
1	AA	387	U	O4'-C1'-N1	6.30	113.24	108.20
1	AA	569	C	C4'-C3'-C2'	-6.30	96.30	102.60
1	AA	1154	G	C4'-C3'-C2'	-6.30	96.30	102.60
1	AA	1187	G	C2-N3-C4	6.30	115.05	111.90
1	AA	1231	G	C8-N9-C1'	6.30	135.19	127.00
26	BB	841	G	O4'-C1'-N9	6.30	113.24	108.20
26	BB	1893	C	N1-C2-O2	6.30	122.68	118.90
26	BB	2070	A	P-O3'-C3'	6.30	127.26	119.70
26	BB	2533	U	O4'-C1'-N1	6.30	113.24	108.20
26	BB	2751	G	P-O3'-C3'	6.30	127.26	119.70
26	BB	2785	C	C3'-C2'-C1'	6.30	106.54	101.50
1	AA	309	A	C4'-C3'-C2'	-6.30	96.30	102.60
1	AA	402	G	N9-C4-C5	6.30	107.92	105.40
1	AA	1147	C	C5'-C4'-O4'	6.30	116.66	109.10
26	BB	394	C	C2-N3-C4	-6.30	116.75	119.90
26	BB	2058	A	C5-C6-N6	-6.30	118.66	123.70
1	AA	407	U	C2-N3-C4	-6.30	123.22	127.00
1	AA	418	C	N1-C2-O2	-6.30	115.12	118.90
1	AA	489	C	O4'-C1'-N1	6.30	113.24	108.20
1	AA	617	G	N3-C4-N9	-6.30	122.22	126.00
1	AA	1069	C	C2-N3-C4	-6.30	116.75	119.90
1	AA	1143	G	N1-C2-N3	-6.30	120.12	123.90
1	AA	1233	G	C8-N9-C4	-6.30	103.88	106.40
10	AJ	77	ARG	NE-CZ-NH1	6.30	123.45	120.30
16	AP	109	LYS	C-N-CA	6.30	135.52	122.30
26	BB	220	G	C1'-O4'-C4'	-6.30	104.86	109.90
26	BB	1406	U	O4'-C1'-C2'	6.30	113.27	107.60
26	BB	2524	G	N1-C6-O6	6.30	123.68	119.90
1	AA	83	C	N3-C4-N4	-6.29	113.59	118.00
1	AA	963	G	P-O3'-C3'	-6.29	112.15	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1287	A	C6-C5-N7	6.29	136.71	132.30
1	AA	1381	U	C5'-C4'-O4'	6.29	116.65	109.10
26	BB	135	U	C2-N3-C4	-6.29	123.22	127.00
26	BB	301	G	O4'-C1'-C2'	-6.29	99.50	105.80
26	BB	1840	G	N7-C8-N9	6.29	116.25	113.10
1	AA	211	G	P-O3'-C3'	6.29	127.25	119.70
1	AA	321	A	C5'-C4'-O4'	-6.29	101.55	109.10
1	AA	618	C	N3-C2-O2	-6.29	117.50	121.90
1	AA	833	G	N3-C4-C5	-6.29	125.45	128.60
1	AA	1023	U	N3-C4-C5	-6.29	110.82	114.60
9	AI	54	LEU	CB-CG-CD2	-6.29	100.30	111.00
26	BB	252	G	C6-C5-N7	6.29	134.18	130.40
26	BB	919	U	N3-C2-O2	-6.29	117.80	122.20
26	BB	1133	A	C5-C6-N1	-6.29	114.55	117.70
26	BB	1214	A	C4-C5-N7	-6.29	107.55	110.70
26	BB	1299	G	N9-C4-C5	6.29	107.92	105.40
26	BB	1445	G	C5-N7-C8	6.29	107.45	104.30
26	BB	2131	U	C6-N1-C2	-6.29	117.22	121.00
26	BB	2331	G	C5-C6-N1	6.29	114.65	111.50
26	BB	2865	U	C5'-C4'-O4'	6.29	116.65	109.10
1	AA	519	C	C6-N1-C2	-6.29	117.78	120.30
1	AA	1053	G	C6-N1-C2	-6.29	121.33	125.10
26	BB	272	A	C2-N3-C4	6.29	113.75	110.60
26	BB	478	A	C6-C5-N7	6.29	136.71	132.30
26	BB	599	A	C5-N7-C8	-6.29	100.75	103.90
26	BB	679	C	C4'-C3'-C2'	-6.29	96.31	102.60
26	BB	792	A	C3'-C2'-C1'	6.29	106.53	101.50
26	BB	1241	A	N9-C4-C5	-6.29	103.28	105.80
26	BB	1637	A	C5'-C4'-O4'	6.29	116.65	109.10
26	BB	2616	C	N1-C2-O2	6.29	122.67	118.90
26	BB	2681	C	C5-C4-N4	-6.29	115.80	120.20
26	BB	2815	C	C2-N3-C4	6.29	123.05	119.90
1	AA	1041	G	C8-N9-C1'	6.29	135.18	127.00
26	BB	502	A	N9-C4-C5	6.29	108.32	105.80
26	BB	552	U	N3-C2-O2	-6.29	117.80	122.20
26	BB	713	G	N7-C8-N9	6.29	116.25	113.10
26	BB	1820	U	C2-N1-C1'	6.29	125.25	117.70
26	BB	2049	G	C4-N9-C1'	-6.29	118.32	126.50
26	BB	2131	U	N1-C2-N3	6.29	118.67	114.90
1	AA	581	G	C4-C5-C6	6.29	122.57	118.80
1	AA	1461	G	N9-C4-C5	6.29	107.92	105.40
4	AD	26	C	O5'-C5'-C4'	-6.29	99.75	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	317	G	C8-N9-C4	-6.29	103.89	106.40
26	BB	352	A	C4-C5-N7	-6.29	107.56	110.70
26	BB	520	G	C6-N1-C2	-6.29	121.33	125.10
26	BB	908	C	N1-C2-O2	6.29	122.67	118.90
26	BB	1042	G	N3-C2-N2	6.29	124.30	119.90
26	BB	1051	G	C8-N9-C4	-6.29	103.89	106.40
26	BB	1748	C	N3-C4-C5	-6.29	119.39	121.90
26	BB	2105	U	N3-C4-O4	6.29	123.80	119.40
1	AA	1145	A	P-O3'-C3'	6.29	127.24	119.70
17	AQ	62	ARG	NE-CZ-NH1	-6.29	117.16	120.30
26	BB	1215	G	C8-N9-C4	6.29	108.92	106.40
26	BB	2882	A	C8-N9-C4	-6.29	103.28	105.80
26	BB	602	A	C6-C5-N7	6.29	136.70	132.30
26	BB	726	G	C5-N7-C8	-6.29	101.16	104.30
26	BB	1083	U	N1-C2-N3	6.29	118.67	114.90
26	BB	1093	G	N3-C4-C5	-6.29	125.46	128.60
26	BB	2360	G	C4-C5-C6	6.29	122.57	118.80
26	BB	2436	G	N3-C2-N2	-6.29	115.50	119.90
40	BP	115	LEU	CB-CA-C	6.29	122.14	110.20
1	AA	70	U	O4'-C1'-N1	6.28	113.23	108.20
1	AA	775	G	C2-N3-C4	6.28	115.04	111.90
1	AA	872	A	O4'-C1'-N9	6.28	113.23	108.20
1	AA	1349	A	C4'-C3'-C2'	-6.28	96.32	102.60
1	AA	1361	G	C3'-C2'-C1'	-6.28	96.47	101.50
1	AA	1432	G	C5-C6-O6	-6.28	124.83	128.60
1	AA	1530	G	C1'-O4'-C4'	-6.28	104.87	109.90
26	BB	63	A	C2-N3-C4	-6.28	107.46	110.60
26	BB	378	C	N1-C2-N3	-6.28	114.80	119.20
26	BB	395	U	C5-C6-N1	-6.28	119.56	122.70
26	BB	443	A	C5-C6-N1	-6.28	114.56	117.70
26	BB	554	U	N1-C2-O2	-6.28	118.40	122.80
26	BB	1739	A	N9-C4-C5	6.28	108.31	105.80
26	BB	2227	A	N9-C4-C5	-6.28	103.29	105.80
26	BB	2492	U	O4'-C1'-N1	6.28	113.23	108.20
26	BB	2687	U	N1-C2-N3	6.28	118.67	114.90
1	AA	824	G	C5-N7-C8	-6.28	101.16	104.30
1	AA	916	U	O4'-C1'-N1	6.28	113.23	108.20
1	AA	1238	A	C5'-C4'-O4'	6.28	116.64	109.10
26	BB	283	G	C8-N9-C4	-6.28	103.89	106.40
26	BB	597	G	C8-N9-C4	-6.28	103.89	106.40
26	BB	1115	G	C2-N3-C4	-6.28	108.76	111.90
26	BB	1963	U	N3-C4-O4	6.28	123.80	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2235	G	C3'-C2'-C1'	6.28	106.53	101.50
1	AA	502	A	C2-N3-C4	6.28	113.74	110.60
1	AA	711	G	C8-N9-C4	-6.28	103.89	106.40
1	AA	763	G	N3-C4-C5	-6.28	125.46	128.60
1	AA	950	U	O4'-C1'-N1	6.28	113.22	108.20
1	AA	1005	A	C6-N1-C2	-6.28	114.83	118.60
1	AA	1455	G	N9-C1'-C2'	-6.28	105.09	112.00
26	BB	219	A	N1-C2-N3	6.28	132.44	129.30
26	BB	662	G	C6-C5-N7	6.28	134.17	130.40
26	BB	788	A	N9-C4-C5	6.28	108.31	105.80
26	BB	1314	C	P-O5'-C5'	6.28	130.95	120.90
26	BB	1546	G	N9-C4-C5	6.28	107.91	105.40
26	BB	2190	G	N1-C2-N3	-6.28	120.13	123.90
26	BB	2249	U	C5-C6-N1	6.28	125.84	122.70
26	BB	2443	C	O4'-C1'-N1	6.28	113.22	108.20
26	BB	2598	A	C5-C6-N1	-6.28	114.56	117.70
1	AA	231	U	C4'-C3'-C2'	-6.28	96.32	102.60
1	AA	897	C	N1-C2-N3	-6.28	114.81	119.20
4	AD	20	G	N1-C2-N3	-6.28	120.13	123.90
9	AI	79	ARG	CD-NE-CZ	6.28	132.39	123.60
26	BB	199	A	C3'-C2'-C1'	-6.28	96.48	101.50
26	BB	809	G	C4-C5-N7	6.28	113.31	110.80
1	AA	75	G	C5-C6-O6	6.28	132.37	128.60
1	AA	994	A	O4'-C1'-N9	6.28	113.22	108.20
26	BB	283	G	N7-C8-N9	6.28	116.24	113.10
26	BB	2002	G	N3-C4-N9	6.28	129.77	126.00
26	BB	2447	G	C6-N1-C2	-6.28	121.33	125.10
26	BB	2565	A	C5-C6-N1	6.28	120.84	117.70
36	BL	16	TYR	CB-CG-CD2	-6.28	117.23	121.00
1	AA	202	G	C4-C5-N7	-6.28	108.29	110.80
1	AA	1362	A	C4-C5-N7	-6.28	107.56	110.70
1	AA	1449	C	N3-C4-N4	-6.28	113.61	118.00
3	AC	18	A	N9-C1'-C2'	6.28	122.16	114.00
25	BA	44	G	C5-C6-O6	6.28	132.37	128.60
26	BB	10	A	C4-C5-N7	-6.28	107.56	110.70
26	BB	24	G	C6-C5-N7	-6.28	126.64	130.40
26	BB	308	G	O4'-C1'-N9	6.28	113.22	108.20
26	BB	409	G	N1-C6-O6	6.28	123.67	119.90
26	BB	1352	U	O4'-C1'-N1	6.28	113.22	108.20
26	BB	1644	C	C4'-C3'-C2'	-6.28	96.32	102.60
26	BB	1706	C	N3-C2-O2	-6.28	117.51	121.90
26	BB	899	A	C5-C6-N1	-6.27	114.56	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1565	C	C6-N1-C2	-6.27	117.79	120.30
47	BW	13	LEU	CB-CG-CD1	-6.27	100.33	111.00
1	AA	230	G	C5-C6-O6	-6.27	124.84	128.60
1	AA	560	A	O4'-C1'-N9	-6.27	103.18	108.20
1	AA	743	A	C3'-C2'-C1'	6.27	106.52	101.50
1	AA	777	A	C5-C6-N6	-6.27	118.68	123.70
19	AS	2	VAL	CA-CB-CG1	6.27	120.31	110.90
25	BA	103	U	C5'-C4'-O4'	6.27	116.63	109.10
26	BB	344	A	C6-C5-N7	6.27	136.69	132.30
26	BB	1444	G	N1-C2-N3	-6.27	120.14	123.90
26	BB	2572	A	N3-C4-C5	-6.27	122.41	126.80
26	BB	415	A	C8-N9-C4	-6.27	103.29	105.80
26	BB	491	G	C4-C5-N7	-6.27	108.29	110.80
26	BB	666	A	C8-N9-C4	6.27	108.31	105.80
26	BB	799	G	N1-C2-N3	-6.27	120.14	123.90
26	BB	1107	G	N1-C6-O6	6.27	123.66	119.90
26	BB	1817	G	N7-C8-N9	-6.27	109.97	113.10
26	BB	2668	G	O4'-C1'-N9	6.27	113.22	108.20
1	AA	191	G	O4'-C1'-C2'	-6.27	99.53	105.80
1	AA	451	A	N9-C4-C5	-6.27	103.29	105.80
1	AA	661	G	C5'-C4'-O4'	6.27	116.62	109.10
1	AA	1319	A	C5'-C4'-O4'	6.27	116.62	109.10
1	AA	1494	G	N1-C2-N3	-6.27	120.14	123.90
2	AB	9	A	C8-N9-C4	-6.27	103.29	105.80
19	AS	14	ARG	CD-NE-CZ	6.27	132.38	123.60
26	BB	87	U	C4'-C3'-C2'	-6.27	96.33	102.60
26	BB	405	U	C1'-O4'-C4'	-6.27	104.88	109.90
26	BB	506	G	C4-C5-C6	6.27	122.56	118.80
26	BB	662	G	C4-C5-N7	-6.27	108.29	110.80
26	BB	753	A	C6-N1-C2	-6.27	114.84	118.60
26	BB	1526	C	C2-N1-C1'	-6.27	111.90	118.80
26	BB	1802	A	C3'-C2'-C1'	6.27	106.52	101.50
26	BB	2507	C	O4'-C1'-N1	6.27	113.22	108.20
1	AA	764	C	O4'-C1'-N1	6.27	113.21	108.20
1	AA	772	U	C4-C5-C6	6.27	123.46	119.70
1	AA	791	G	C5'-C4'-O4'	6.27	116.62	109.10
1	AA	873	A	C4-C5-C6	-6.27	113.87	117.00
1	AA	1301	U	O4'-C1'-N1	6.27	113.22	108.20
26	BB	44	A	C5-N7-C8	6.27	107.03	103.90
26	BB	133	U	C4'-C3'-C2'	-6.27	96.33	102.60
26	BB	668	A	C3'-C2'-C1'	-6.27	96.49	101.50
26	BB	1143	A	C5-C6-N6	-6.27	118.69	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1239	G	N3-C4-C5	-6.27	125.47	128.60
26	BB	1701	A	C5'-C4'-O4'	6.27	116.62	109.10
26	BB	1930	G	C4-C5-N7	-6.27	108.29	110.80
26	BB	2026	U	C5-C6-N1	-6.27	119.57	122.70
26	BB	2252	G	N3-C4-C5	-6.27	125.47	128.60
26	BB	2648	G	C1'-O4'-C4'	6.27	114.92	109.90
34	BJ	50	TYR	CB-CG-CD2	6.27	124.76	121.00
1	AA	80	A	C5-C6-N6	-6.27	118.69	123.70
1	AA	1043	G	P-O3'-C3'	6.27	127.22	119.70
1	AA	1357	A	N1-C2-N3	-6.27	126.17	129.30
2	AB	44	G	N1-C6-O6	6.27	123.66	119.90
26	BB	324	A	O4'-C1'-N9	6.27	113.21	108.20
26	BB	1426	G	C5-N7-C8	-6.27	101.17	104.30
1	AA	355	C	C2-N3-C4	-6.26	116.77	119.90
1	AA	395	C	N1-C2-O2	6.26	122.66	118.90
1	AA	403	C	C5-C6-N1	6.26	124.13	121.00
1	AA	1234	C	C5'-C4'-O4'	6.26	116.62	109.10
1	AA	1512	U	C5-C6-N1	-6.26	119.57	122.70
1	AA	1536	C	N3-C4-C5	6.26	124.41	121.90
2	AB	28	C	C5-C6-N1	6.26	124.13	121.00
3	AC	14	G	O4'-C4'-C3'	6.26	111.11	106.10
3	AC	55	A	O4'-C1'-C2'	-6.26	99.53	105.80
26	BB	868	U	N3-C2-O2	-6.26	117.81	122.20
26	BB	1020	A	C8-N9-C4	-6.26	103.29	105.80
26	BB	1147	A	C5-C6-N1	-6.26	114.57	117.70
26	BB	1687	G	N7-C8-N9	6.26	116.23	113.10
26	BB	1798	U	C5-C6-N1	-6.26	119.57	122.70
26	BB	2175	C	N1-C2-O2	-6.26	115.14	118.90
26	BB	2522	U	N1-C2-N3	6.26	118.66	114.90
26	BB	2578	G	C5-N7-C8	-6.26	101.17	104.30
26	BB	89	A	C8-N9-C4	-6.26	103.30	105.80
26	BB	1021	A	N7-C8-N9	6.26	116.93	113.80
26	BB	1043	C	N1-C2-O2	6.26	122.66	118.90
26	BB	2301	C	O4'-C1'-N1	6.26	113.21	108.20
40	BP	118	ARG	NE-CZ-NH1	6.26	123.43	120.30
1	AA	518	C	C4-C5-C6	6.26	120.53	117.40
1	AA	528	C	C5'-C4'-C3'	-6.26	105.98	116.00
1	AA	698	G	C5-C6-N1	-6.26	108.37	111.50
1	AA	873	A	C5-C6-N1	6.26	120.83	117.70
4	AD	69	C	N1-C2-N3	-6.26	114.82	119.20
25	BA	8	C	C1'-O4'-C4'	-6.26	104.89	109.90
26	BB	390	U	C4-C5-C6	6.26	123.46	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1649	G	C8-N9-C1'	6.26	135.14	127.00
26	BB	2851	A	C2-N3-C4	-6.26	107.47	110.60
1	AA	183	C	O4'-C1'-N1	6.26	113.21	108.20
1	AA	678	U	O4'-C1'-N1	6.26	113.21	108.20
1	AA	706	A	N7-C8-N9	6.26	116.93	113.80
1	AA	821	G	C8-N9-C4	6.26	108.90	106.40
1	AA	847	G	N3-C4-C5	-6.26	125.47	128.60
26	BB	101	A	C4-C5-C6	-6.26	113.87	117.00
26	BB	526	A	C3'-C2'-C1'	6.26	106.51	101.50
26	BB	1347	A	C8-N9-C1'	6.26	138.97	127.70
26	BB	1887	C	C5'-C4'-C3'	-6.26	105.99	116.00
26	BB	2755	C	N3-C2-O2	-6.26	117.52	121.90
26	BB	2849	U	O4'-C1'-N1	6.26	113.21	108.20
26	BB	2862	G	N9-C1'-C2'	-6.26	105.11	112.00
37	BM	30	ARG	NE-CZ-NH1	6.26	123.43	120.30
1	AA	445	G	C1'-O4'-C4'	-6.26	104.89	109.90
26	BB	253	C	N3-C4-C5	-6.26	119.40	121.90
26	BB	1566	A	N1-C6-N6	-6.26	114.84	118.60
26	BB	1955	U	O4'-C1'-N1	6.26	113.21	108.20
26	BB	2381	A	N7-C8-N9	6.26	116.93	113.80
26	BB	2609	U	C5'-C4'-O4'	-6.26	101.59	109.10
26	BB	297	G	N9-C4-C5	6.26	107.90	105.40
26	BB	1195	G	C6-C5-N7	-6.26	126.65	130.40
26	BB	1263	U	C2-N3-C4	-6.26	123.25	127.00
26	BB	1429	G	N1-C2-N3	-6.26	120.15	123.90
26	BB	1778	U	C4-C5-C6	6.26	123.45	119.70
26	BB	1965	C	N1-C2-O2	6.26	122.65	118.90
26	BB	2391	G	C5-N7-C8	6.26	107.43	104.30
26	BB	2426	A	C5'-C4'-O4'	6.26	116.61	109.10
26	BB	2592	G	C4-C5-C6	6.26	122.55	118.80
26	BB	1033	U	C5'-C4'-O4'	6.25	116.61	109.10
26	BB	2328	A	C1'-O4'-C4'	6.25	114.90	109.90
26	BB	2377	A	N1-C6-N6	6.25	122.35	118.60
26	BB	2775	G	P-O3'-C3'	6.25	127.21	119.70
1	AA	399	G	C1'-O4'-C4'	6.25	114.90	109.90
1	AA	888	G	N3-C2-N2	6.25	124.28	119.90
1	AA	1330	U	N1-C2-O2	6.25	127.18	122.80
4	AD	6	G	O4'-C1'-N9	6.25	113.20	108.20
13	AM	65	TYR	CB-CG-CD2	-6.25	117.25	121.00
25	BA	64	G	N7-C8-N9	6.25	116.23	113.10
26	BB	162	U	N3-C4-C5	-6.25	110.85	114.60
26	BB	382	A	N9-C4-C5	6.25	108.30	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1076	C	C5-C4-N4	6.25	124.58	120.20
26	BB	1133	A	N9-C4-C5	6.25	108.30	105.80
26	BB	1164	C	N3-C4-C5	-6.25	119.40	121.90
26	BB	1605	C	C5-C4-N4	-6.25	115.82	120.20
26	BB	1703	G	N7-C8-N9	-6.25	109.97	113.10
26	BB	1851	U	N3-C4-C5	-6.25	110.85	114.60
26	BB	2250	G	O4'-C1'-N9	-6.25	103.20	108.20
26	BB	2277	G	N1-C2-N3	-6.25	120.15	123.90
1	AA	563	A	N1-C6-N6	-6.25	114.85	118.60
1	AA	915	A	N1-C6-N6	6.25	122.35	118.60
1	AA	1454	G	C5-N7-C8	-6.25	101.17	104.30
1	AA	1529	G	C1'-O4'-C4'	-6.25	104.90	109.90
4	AD	12	G	N3-C2-N2	6.25	124.28	119.90
25	BA	4	C	O4'-C1'-N1	6.25	113.20	108.20
26	BB	180	G	C6-N1-C2	-6.25	121.35	125.10
26	BB	781	A	C4'-C3'-C2'	-6.25	96.35	102.60
26	BB	930	G	N3-C4-N9	-6.25	122.25	126.00
26	BB	1062	G	C2'-C3'-O3'	6.25	123.70	113.70
26	BB	1341	G	C5'-C4'-C3'	-6.25	106.00	116.00
26	BB	1549	A	C8-N9-C4	6.25	108.30	105.80
26	BB	1730	C	N3-C4-C5	-6.25	119.40	121.90
26	BB	2789	C	C5-C6-N1	-6.25	117.88	121.00
26	BB	2844	G	O5'-P-OP1	-6.25	100.07	105.70
34	BJ	158	ARG	NE-CZ-NH2	-6.25	117.17	120.30
4	AD	31	G	N1-C6-O6	-6.25	116.15	119.90
26	BB	874	G	O4'-C1'-N9	6.25	113.20	108.20
26	BB	1463	C	N3-C2-O2	-6.25	117.53	121.90
26	BB	2492	U	C2-N1-C1'	6.25	125.20	117.70
1	AA	36	C	P-O3'-C3'	6.25	127.20	119.70
1	AA	186	C	N1-C2-O2	6.25	122.65	118.90
1	AA	711	G	N3-C4-N9	6.25	129.75	126.00
1	AA	995	C	C1'-O4'-C4'	6.25	114.90	109.90
2	AB	30	G	N9-C4-C5	6.25	107.90	105.40
26	BB	10	A	C5-N7-C8	6.25	107.03	103.90
26	BB	753	A	C5'-C4'-O4'	6.25	116.60	109.10
26	BB	893	C	C2'-C3'-O3'	6.25	123.70	113.70
26	BB	918	A	O4'-C1'-N9	6.25	113.20	108.20
26	BB	1317	G	P-O3'-C3'	6.25	127.20	119.70
26	BB	1827	U	C4-C5-C6	6.25	123.45	119.70
26	BB	2151	U	C1'-O4'-C4'	6.25	114.90	109.90
26	BB	2301	C	C5-C6-N1	-6.25	117.88	121.00
26	BB	2314	A	C6-C5-N7	6.25	136.67	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2648	G	N7-C8-N9	6.25	116.22	113.10
26	BB	2723	C	C1'-O4'-C4'	6.25	114.90	109.90
26	BB	2748	A	N7-C8-N9	-6.25	110.68	113.80
1	AA	598	U	C5'-C4'-O4'	6.25	116.60	109.10
1	AA	806	C	O4'-C1'-C2'	6.25	113.22	107.60
1	AA	1143	G	C5-C6-N1	6.25	114.62	111.50
1	AA	1362	A	O4'-C4'-C3'	6.25	111.10	106.10
1	AA	1511	G	N1-C2-N2	-6.25	110.58	116.20
2	AB	64	U	C4'-C3'-C2'	-6.25	96.35	102.60
26	BB	624	C	O4'-C1'-N1	6.25	113.20	108.20
26	BB	760	G	C6-N1-C2	-6.25	121.35	125.10
26	BB	1049	C	C5-C6-N1	6.25	124.12	121.00
26	BB	1679	A	O4'-C1'-N9	6.25	113.20	108.20
26	BB	1836	C	C1'-O4'-C4'	-6.25	104.90	109.90
1	AA	73	C	C4-C5-C6	6.25	120.52	117.40
1	AA	638	U	N1-C2-N3	6.25	118.65	114.90
1	AA	1134	G	N3-C4-N9	6.25	129.75	126.00
1	AA	1481	U	C2-N3-C4	-6.25	123.25	127.00
15	AO	37	TYR	CB-CG-CD1	-6.25	117.25	121.00
26	BB	1135	C	C3'-C2'-C1'	6.25	106.50	101.50
26	BB	1442	U	C5-C4-O4	6.25	129.65	125.90
26	BB	2107	G	N9-C1'-C2'	-6.25	105.13	112.00
26	BB	2750	A	N9-C4-C5	-6.25	103.30	105.80
1	AA	249	U	N1-C2-O2	-6.24	118.43	122.80
1	AA	1278	G	C4-C5-C6	6.24	122.55	118.80
26	BB	66	C	C5-C6-N1	6.24	124.12	121.00
26	BB	460	A	C5-C6-N1	-6.24	114.58	117.70
26	BB	837	C	C4'-C3'-C2'	-6.24	96.36	102.60
26	BB	939	G	C6-N1-C2	-6.24	121.35	125.10
26	BB	943	A	C8-N9-C4	-6.24	103.30	105.80
26	BB	1057	A	C2-N3-C4	-6.24	107.48	110.60
26	BB	1084	A	C3'-C2'-C1'	-6.24	96.51	101.50
26	BB	1234	U	C3'-C2'-C1'	6.24	106.50	101.50
26	BB	1873	G	N3-C4-C5	-6.24	125.48	128.60
26	BB	2121	G	C5-C6-N1	-6.24	108.38	111.50
26	BB	2411	A	C3'-C2'-C1'	-6.24	96.50	101.50
26	BB	2567	G	C5'-C4'-O4'	6.24	116.59	109.10
1	AA	823	C	C4'-C3'-C2'	-6.24	96.36	102.60
25	BA	28	C	C2-N3-C4	6.24	123.02	119.90
26	BB	1095	A	C6-N1-C2	6.24	122.34	118.60
26	BB	1126	A	C5-C6-N6	-6.24	118.71	123.70
26	BB	1600	C	N3-C2-O2	-6.24	117.53	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2903	U	C3'-C2'-C1'	6.24	106.49	101.50
1	AA	65	A	N7-C8-N9	6.24	116.92	113.80
1	AA	258	G	C5-N7-C8	-6.24	101.18	104.30
1	AA	792	A	N7-C8-N9	6.24	116.92	113.80
1	AA	1460	C	N1-C2-O2	6.24	122.64	118.90
1	AA	1540	U	C3'-C2'-C1'	6.24	106.49	101.50
2	AB	3	G	C5-C6-N1	6.24	114.62	111.50
26	BB	1304	A	C2-N3-C4	6.24	113.72	110.60
26	BB	1374	G	N3-C4-C5	6.24	131.72	128.60
26	BB	2093	G	N9-C4-C5	6.24	107.90	105.40
26	BB	2167	U	C5-C4-O4	-6.24	122.16	125.90
26	BB	2214	C	N1-C2-O2	6.24	122.64	118.90
26	BB	2235	G	N3-C4-C5	-6.24	125.48	128.60
1	AA	17	U	P-O3'-C3'	6.24	127.19	119.70
1	AA	340	U	C3'-C2'-C1'	-6.24	96.51	101.50
1	AA	560	A	C6-N1-C2	-6.24	114.86	118.60
5	AE	13	VAL	CA-CB-CG2	6.24	120.26	110.90
26	BB	182	A	C8-N9-C4	-6.24	103.31	105.80
26	BB	2018	G	N3-C4-N9	6.24	129.74	126.00
26	BB	2028	U	N1-C1'-C2'	-6.24	105.14	112.00
26	BB	2542	A	C6-N1-C2	-6.24	114.86	118.60
26	BB	2675	A	N3-C4-N9	6.24	132.39	127.40
1	AA	496	A	P-O3'-C3'	6.24	127.19	119.70
1	AA	717	U	O4'-C1'-N1	6.24	113.19	108.20
25	BA	105	G	C8-N9-C1'	6.24	135.11	127.00
26	BB	396	G	C4'-C3'-C2'	-6.24	96.36	102.60
26	BB	446	G	C6-C5-N7	-6.24	126.66	130.40
26	BB	455	C	C2-N3-C4	6.24	123.02	119.90
26	BB	942	G	N3-C2-N2	-6.24	115.53	119.90
26	BB	2108	A	C4-C5-N7	-6.24	107.58	110.70
26	BB	2392	A	C5-C6-N1	6.24	120.82	117.70
1	AA	476	U	C2-N3-C4	6.24	130.74	127.00
1	AA	1045	C	C5'-C4'-O4'	6.24	116.58	109.10
1	AA	1107	C	C5'-C4'-O4'	6.24	116.58	109.10
1	AA	1517	G	N1-C2-N3	-6.24	120.16	123.90
25	BA	67	G	O4'-C4'-C3'	6.24	111.09	106.10
25	BA	106	G	C8-N9-C1'	6.24	135.10	127.00
26	BB	261	G	N1-C2-N2	-6.24	110.59	116.20
26	BB	404	A	N3-C4-N9	6.24	132.39	127.40
26	BB	412	A	N3-C4-C5	6.24	131.16	126.80
26	BB	475	C	C4-C5-C6	-6.24	114.28	117.40
26	BB	702	U	C4-C5-C6	6.24	123.44	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	776	G	N1-C2-N3	-6.24	120.16	123.90
26	BB	798	G	N7-C8-N9	6.24	116.22	113.10
26	BB	1202	G	C6-C5-N7	6.24	134.14	130.40
26	BB	1428	C	O4'-C4'-C3'	6.24	111.09	106.10
26	BB	1775	U	O4'-C4'-C3'	6.24	111.09	106.10
26	BB	1847	A	O4'-C4'-C3'	-6.24	97.77	104.00
26	BB	1986	C	O4'-C1'-N1	6.24	113.19	108.20
26	BB	2037	A	C5-N7-C8	-6.24	100.78	103.90
26	BB	2286	G	C5'-C4'-O4'	6.24	116.58	109.10
26	BB	2411	A	N7-C8-N9	-6.24	110.68	113.80
26	BB	2543	G	C5'-C4'-C3'	-6.24	106.02	116.00
26	BB	2850	A	N1-C2-N3	6.24	132.42	129.30
29	BE	179	ARG	NE-CZ-NH2	-6.24	117.18	120.30
1	AA	306	A	C3'-C2'-C1'	6.23	106.49	101.50
1	AA	502	A	N9-C1'-C2'	-6.23	105.14	112.00
1	AA	1148	U	C5'-C4'-O4'	6.23	116.58	109.10
1	AA	1413	A	C4'-C3'-C2'	-6.23	96.37	102.60
25	BA	110	C	O4'-C1'-N1	6.23	113.19	108.20
1	AA	309	A	C4-C5-N7	6.23	113.82	110.70
1	AA	857	C	C4'-C3'-C2'	-6.23	96.37	102.60
1	AA	1127	G	C8-N9-C4	-6.23	103.91	106.40
1	AA	1236	A	C5-C6-N6	-6.23	118.72	123.70
1	AA	1422	G	O4'-C1'-N9	6.23	113.19	108.20
1	AA	1439	G	N1-C6-O6	6.23	123.64	119.90
26	BB	70	G	C4-C5-N7	-6.23	108.31	110.80
26	BB	389	G	C5-N7-C8	6.23	107.42	104.30
26	BB	414	C	C4-C5-C6	-6.23	114.28	117.40
26	BB	447	A	C4-C5-C6	-6.23	113.88	117.00
26	BB	1914	C	N3-C4-C5	-6.23	119.41	121.90
26	BB	1985	C	C6-N1-C2	6.23	122.79	120.30
26	BB	2663	G	C2-N3-C4	6.23	115.02	111.90
28	BD	132	ARG	NE-CZ-NH1	6.23	123.42	120.30
1	AA	122	G	C4'-C3'-C2'	-6.23	96.37	102.60
1	AA	1416	G	N1-C2-N3	-6.23	120.16	123.90
26	BB	384	A	O4'-C4'-C3'	6.23	111.08	106.10
26	BB	1152	C	N3-C2-O2	-6.23	117.54	121.90
26	BB	1361	G	C4-C5-N7	-6.23	108.31	110.80
26	BB	1478	G	N1-C2-N3	6.23	127.64	123.90
26	BB	1640	A	C2-N3-C4	6.23	113.72	110.60
26	BB	1803	A	N9-C4-C5	6.23	108.29	105.80
26	BB	1813	G	N1-C2-N2	-6.23	110.59	116.20
26	BB	1836	C	C4'-C3'-C2'	-6.23	96.37	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1866	A	C6-C5-N7	6.23	136.66	132.30
26	BB	2034	U	N3-C4-O4	6.23	123.76	119.40
54	B3	37	HIS	ND1-CG-CD2	6.23	117.52	108.80
1	AA	1096	C	C5-C6-N1	6.23	124.11	121.00
1	AA	1419	G	O4'-C4'-C3'	6.23	111.08	106.10
1	AA	1461	G	N3-C4-C5	-6.23	125.48	128.60
26	BB	485	C	C1'-O4'-C4'	6.23	114.88	109.90
26	BB	1223	G	O5'-C5'-C4'	-6.23	99.86	111.70
26	BB	1349	C	C5'-C4'-O4'	6.23	116.57	109.10
26	BB	1626	A	C4-C5-N7	6.23	113.81	110.70
26	BB	2700	A	N3-C4-N9	6.23	132.38	127.40
26	BB	2702	G	N3-C4-C5	-6.23	125.48	128.60
1	AA	287	U	N1-C2-N3	6.23	118.64	114.90
1	AA	305	G	C4-C5-N7	-6.23	108.31	110.80
1	AA	731	G	C4-C5-N7	-6.23	108.31	110.80
1	AA	941	G	C2-N3-C4	6.23	115.01	111.90
1	AA	1461	G	N7-C8-N9	6.23	116.21	113.10
12	AL	37	TYR	CG-CD1-CE1	-6.23	116.32	121.30
13	AM	73	LEU	CB-CG-CD2	-6.23	100.41	111.00
25	BA	107	G	N3-C4-C5	-6.23	125.49	128.60
26	BB	109	C	C4-C5-C6	-6.23	114.29	117.40
26	BB	468	G	N1-C2-N3	6.23	127.64	123.90
26	BB	1397	U	N1-C2-O2	6.23	127.16	122.80
26	BB	1433	A	P-O3'-C3'	6.23	127.17	119.70
26	BB	1697	G	C5-C6-O6	-6.23	124.86	128.60
26	BB	1825	U	C6-N1-C1'	6.23	129.92	121.20
26	BB	1991	U	O4'-C4'-C3'	-6.23	97.77	104.00
26	BB	2400	G	N3-C2-N2	6.23	124.26	119.90
43	BS	110	GLU	OE1-CD-OE2	6.23	130.77	123.30
1	AA	1031	C	N3-C4-N4	6.23	122.36	118.00
26	BB	742	A	N3-C4-N9	6.23	132.38	127.40
26	BB	827	U	C5-C6-N1	6.23	125.81	122.70
26	BB	1427	A	C4-C5-N7	-6.23	107.59	110.70
26	BB	2308	G	N9-C4-C5	6.23	107.89	105.40
26	BB	2834	G	N9-C4-C5	6.23	107.89	105.40
1	AA	125	U	O4'-C1'-N1	6.22	113.18	108.20
1	AA	174	A	C4-C5-N7	6.22	113.81	110.70
5	AE	43	GLU	OE1-CD-OE2	6.22	130.77	123.30
25	BA	70	C	N1-C1'-C2'	-6.22	105.15	112.00
26	BB	653	U	N3-C4-O4	-6.22	115.04	119.40
26	BB	1665	A	N9-C1'-C2'	-6.22	105.15	112.00
26	BB	2642	G	C5-C6-O6	-6.22	124.87	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2693	G	C1'-O4'-C4'	-6.22	104.92	109.90
1	AA	143	A	C4-C5-C6	-6.22	113.89	117.00
1	AA	491	G	C5-N7-C8	-6.22	101.19	104.30
1	AA	664	G	C4-C5-C6	6.22	122.53	118.80
1	AA	987	G	C8-N9-C1'	6.22	135.09	127.00
1	AA	1137	C	N3-C4-C5	-6.22	119.41	121.90
1	AA	1251	A	C3'-C2'-C1'	6.22	106.48	101.50
1	AA	1459	G	C6-N1-C2	-6.22	121.37	125.10
3	AC	30	U	N3-C2-O2	-6.22	117.84	122.20
4	AD	7	G	O5'-C5'-C4'	-6.22	99.88	111.70
25	BA	7	G	C5-N7-C8	-6.22	101.19	104.30
26	BB	1355	G	C8-N9-C4	-6.22	103.91	106.40
44	BT	2	TYR	CD1-CE1-CZ	6.22	125.40	119.80
1	AA	311	C	C5'-C4'-O4'	6.22	116.57	109.10
1	AA	352	C	C5'-C4'-O4'	6.22	116.57	109.10
2	AB	57	G	N1-C2-N3	6.22	127.63	123.90
26	BB	502	A	C8-N9-C4	-6.22	103.31	105.80
1	AA	166	U	N3-C4-C5	6.22	118.33	114.60
1	AA	1127	G	N3-C4-N9	-6.22	122.27	126.00
2	AB	9	A	C2-N3-C4	6.22	113.71	110.60
25	BA	55	U	C5-C4-O4	6.22	129.63	125.90
26	BB	787	C	C4-C5-C6	-6.22	114.29	117.40
26	BB	1225	G	C3'-C2'-C1'	6.22	106.48	101.50
26	BB	1552	A	N9-C1'-C2'	-6.22	105.16	112.00
26	BB	2723	C	N1-C2-O2	-6.22	115.17	118.90
26	BB	2726	A	C8-N9-C4	-6.22	103.31	105.80
1	AA	639	G	O4'-C1'-N9	6.22	113.17	108.20
25	BA	8	C	N1-C2-O2	6.22	122.63	118.90
26	BB	688	U	N1-C1'-C2'	6.22	122.08	114.00
26	BB	827	U	C2-N3-C4	-6.22	123.27	127.00
26	BB	1018	U	C4-C5-C6	-6.22	115.97	119.70
26	BB	2704	C	C5-C6-N1	6.22	124.11	121.00
42	BR	61	ARG	NE-CZ-NH2	6.22	123.41	120.30
1	AA	71	A	C5-C6-N1	6.22	120.81	117.70
1	AA	281	G	C2-N3-C4	6.22	115.01	111.90
1	AA	395	C	N3-C4-N4	6.22	122.35	118.00
1	AA	883	C	N3-C2-O2	-6.22	117.55	121.90
1	AA	1488	G	N9-C1'-C2'	-6.22	105.16	112.00
26	BB	531	C	N1-C2-O2	6.22	122.63	118.90
26	BB	1520	U	N3-C2-O2	-6.22	117.85	122.20
26	BB	1603	A	C5-C6-N6	6.22	128.67	123.70
26	BB	1717	A	C5-C6-N6	-6.22	118.73	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1784	A	C3'-C2'-C1'	-6.22	96.53	101.50
26	BB	2427	C	O3'-P-O5'	6.22	115.81	104.00
26	BB	2557	G	N9-C4-C5	6.22	107.89	105.40
1	AA	46	G	C6-N1-C2	-6.21	121.37	125.10
1	AA	123	U	C5'-C4'-O4'	6.21	116.56	109.10
1	AA	173	U	C5'-C4'-O4'	6.21	116.56	109.10
1	AA	824	G	N9-C1'-C2'	-6.21	105.16	112.00
1	AA	901	A	C5-C6-N6	-6.21	118.73	123.70
1	AA	925	G	C5-C6-N1	6.21	114.61	111.50
1	AA	1243	C	N3-C2-O2	-6.21	117.55	121.90
1	AA	1412	C	C6-N1-C2	6.21	122.79	120.30
1	AA	1438	G	N3-C2-N2	6.21	124.25	119.90
26	BB	797	G	C8-N9-C4	-6.21	103.91	106.40
26	BB	909	A	C5-C6-N1	6.21	120.81	117.70
26	BB	1174	U	C4-C5-C6	6.21	123.43	119.70
26	BB	1237	A	C1'-O4'-C4'	-6.21	104.93	109.90
26	BB	1418	G	C6-N1-C2	-6.21	121.37	125.10
26	BB	1513	U	O4'-C1'-N1	6.21	113.17	108.20
26	BB	1700	A	C5-N7-C8	6.21	107.01	103.90
26	BB	1788	C	N3-C4-N4	6.21	122.35	118.00
26	BB	2086	U	N1-C2-N3	6.21	118.63	114.90
26	BB	2112	G	C6-N1-C2	-6.21	121.37	125.10
26	BB	2221	G	C5'-C4'-O4'	6.21	116.56	109.10
26	BB	2628	C	N3-C4-C5	-6.21	119.41	121.90
26	BB	111	A	O4'-C1'-N9	-6.21	103.23	108.20
1	AA	371	A	O5'-P-OP2	-6.21	100.11	105.70
1	AA	594	U	C5-C6-N1	-6.21	119.59	122.70
1	AA	769	G	C3'-C2'-C1'	-6.21	96.53	101.50
1	AA	1233	G	N1-C6-O6	-6.21	116.17	119.90
26	BB	532	A	C6-N1-C2	6.21	122.33	118.60
26	BB	653	U	C1'-O4'-C4'	-6.21	104.93	109.90
26	BB	895	U	P-O3'-C3'	6.21	127.15	119.70
26	BB	1015	U	N3-C2-O2	-6.21	117.85	122.20
26	BB	1489	C	O4'-C1'-N1	6.21	113.17	108.20
26	BB	1931	U	N3-C4-O4	-6.21	115.05	119.40
26	BB	2045	C	N1-C2-O2	6.21	122.63	118.90
26	BB	2075	U	N1-C1'-C2'	-6.21	105.17	112.00
26	BB	2266	A	C4-C5-C6	-6.21	113.89	117.00
1	AA	423	G	C2-N3-C4	6.21	115.00	111.90
1	AA	849	G	O4'-C1'-N9	6.21	113.17	108.20
1	AA	878	A	C4'-C3'-C2'	-6.21	96.39	102.60
1	AA	1178	G	N7-C8-N9	6.21	116.20	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1225	A	C5-C6-N1	-6.21	114.59	117.70
26	BB	899	A	C8-N9-C4	-6.21	103.32	105.80
26	BB	1251	C	C5'-C4'-O4'	6.21	116.55	109.10
26	BB	1971	U	C4-C5-C6	6.21	123.43	119.70
26	BB	2031	A	N1-C6-N6	-6.21	114.87	118.60
35	BK	116	MET	C-N-CA	6.21	137.23	121.70
1	AA	847	G	C2-N3-C4	6.21	115.00	111.90
1	AA	1284	C	C1'-O4'-C4'	6.21	114.87	109.90
1	AA	1338	G	N7-C8-N9	6.21	116.20	113.10
1	AA	1478	U	C4'-C3'-C2'	-6.21	96.39	102.60
1	AA	1490	U	C1'-O4'-C4'	-6.21	104.93	109.90
3	AC	45	G	C4-C5-C6	6.21	122.53	118.80
10	AJ	1	PRO	N-CD-CG	6.21	112.51	103.20
26	BB	87	U	N1-C2-O2	-6.21	118.45	122.80
26	BB	279	A	C8-N9-C4	6.21	108.28	105.80
26	BB	470	A	C4'-C3'-C2'	-6.21	96.39	102.60
26	BB	847	U	C5'-C4'-O4'	6.21	116.55	109.10
26	BB	1136	G	N7-C8-N9	6.21	116.20	113.10
26	BB	1604	C	C4'-C3'-C2'	-6.21	96.39	102.60
26	BB	1936	A	C5-N7-C8	6.21	107.00	103.90
26	BB	2119	A	C8-N9-C4	-6.21	103.32	105.80
26	BB	2731	G	C6-C5-N7	6.21	134.12	130.40
1	AA	120	A	C4-C5-N7	-6.21	107.60	110.70
1	AA	165	G	C4'-C3'-C2'	-6.21	96.39	102.60
1	AA	274	A	N1-C2-N3	-6.21	126.20	129.30
1	AA	618	C	P-O3'-C3'	6.21	127.15	119.70
1	AA	879	C	N1-C2-O2	6.21	122.62	118.90
1	AA	1022	A	N9-C4-C5	6.21	108.28	105.80
1	AA	1238	A	O3'-P-O5'	6.21	115.79	104.00
1	AA	1432	G	C3'-C2'-C1'	6.21	106.47	101.50
1	AA	1463	U	N1-C1'-C2'	-6.21	105.17	112.00
1	AA	1507	A	C2-N3-C4	6.21	113.70	110.60
26	BB	517	C	C5-C4-N4	6.21	124.54	120.20
26	BB	569	U	C6-N1-C2	6.21	124.72	121.00
26	BB	922	C	C5-C6-N1	6.21	124.10	121.00
26	BB	1506	U	C4-C5-C6	6.21	123.42	119.70
26	BB	2133	G	N3-C4-C5	-6.21	125.50	128.60
26	BB	2414	G	O4'-C1'-N9	6.21	113.17	108.20
26	BB	2741	A	N3-C4-N9	-6.21	122.44	127.40
1	AA	144	G	N7-C8-N9	6.21	116.20	113.10
1	AA	438	U	N1-C2-O2	-6.21	118.46	122.80
1	AA	1124	G	N3-C2-N2	-6.21	115.56	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1489	G	N3-C4-C5	-6.21	125.50	128.60
26	BB	31	C	N3-C2-O2	-6.21	117.56	121.90
26	BB	129	C	C6-N1-C2	6.21	122.78	120.30
26	BB	315	G	N7-C8-N9	6.21	116.20	113.10
26	BB	1666	G	C5-N7-C8	-6.21	101.20	104.30
26	BB	1719	G	N7-C8-N9	6.21	116.20	113.10
26	BB	1863	G	N9-C1'-C2'	-6.21	105.17	112.00
26	BB	2283	C	C4-C5-C6	-6.21	114.30	117.40
26	BB	2584	U	C6-N1-C2	-6.21	117.28	121.00
26	BB	2650	U	N1-C2-N3	6.21	118.62	114.90
26	BB	2673	G	C2-N3-C4	6.21	115.00	111.90
26	BB	2768	U	C3'-C2'-C1'	-6.21	96.54	101.50
1	AA	257	G	N1-C2-N2	-6.20	110.62	116.20
1	AA	333	U	N1-C2-N3	6.20	118.62	114.90
1	AA	681	A	C2'-C3'-O3'	6.20	123.63	113.70
1	AA	1107	C	C5-C4-N4	-6.20	115.86	120.20
1	AA	1162	C	N1-C1'-C2'	-6.20	105.18	112.00
1	AA	1348	U	O4'-C1'-N1	6.20	113.16	108.20
3	AC	20	G	C5-N7-C8	-6.20	101.20	104.30
26	BB	331	C	O4'-C1'-N1	6.20	113.16	108.20
26	BB	1393	A	C5-C6-N6	6.20	128.66	123.70
26	BB	2476	A	C5-C6-N6	6.20	128.66	123.70
26	BB	2524	G	N3-C4-C5	-6.20	125.50	128.60
26	BB	2603	G	C2-N3-C4	6.20	115.00	111.90
1	AA	602	A	N9-C1'-C2'	-6.20	105.18	112.00
1	AA	857	C	C4-C5-C6	-6.20	114.30	117.40
1	AA	1009	U	C5-C4-O4	6.20	129.62	125.90
1	AA	1452	C	C1'-O4'-C4'	6.20	114.86	109.90
2	AB	64	U	O3'-P-O5'	-6.20	92.22	104.00
8	AH	37	VAL	CA-CB-CG2	6.20	120.20	110.90
26	BB	129	C	N3-C4-N4	6.20	122.34	118.00
26	BB	623	C	C1'-O4'-C4'	6.20	114.86	109.90
26	BB	797	G	C5-N7-C8	-6.20	101.20	104.30
26	BB	1664	A	N7-C8-N9	6.20	116.90	113.80
26	BB	2270	A	C6-C5-N7	6.20	136.64	132.30
26	BB	2392	A	N9-C4-C5	6.20	108.28	105.80
26	BB	2509	G	C5-C6-O6	-6.20	124.88	128.60
1	AA	325	A	C2'-C3'-O3'	6.20	123.62	113.70
1	AA	747	A	C6-N1-C2	6.20	122.32	118.60
1	AA	830	G	O4'-C1'-N9	6.20	113.16	108.20
1	AA	1391	U	O4'-C4'-C3'	6.20	111.06	106.10
7	AG	178	GLU	OE1-CD-OE2	6.20	130.74	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	86	G	N7-C8-N9	6.20	116.20	113.10
26	BB	325	G	C1'-O4'-C4'	-6.20	104.94	109.90
26	BB	618	G	O4'-C1'-N9	6.20	113.16	108.20
26	BB	823	C	C2-N3-C4	6.20	123.00	119.90
26	BB	926	G	N3-C4-C5	-6.20	125.50	128.60
26	BB	1526	C	C5-C4-N4	-6.20	115.86	120.20
26	BB	1770	G	N3-C4-C5	-6.20	125.50	128.60
26	BB	2590	A	N9-C1'-C2'	-6.20	105.18	112.00
1	AA	601	G	C1'-O4'-C4'	-6.20	104.94	109.90
1	AA	1049	U	N1-C1'-C2'	-6.20	105.18	112.00
1	AA	1057	G	N1-C2-N2	6.20	121.78	116.20
1	AA	1365	G	C2-N3-C4	6.20	115.00	111.90
2	AB	3	G	N3-C4-C5	-6.20	125.50	128.60
25	BA	79	G	C6-N1-C2	-6.20	121.38	125.10
25	BA	98	G	C8-N9-C4	-6.20	103.92	106.40
26	BB	720	U	O4'-C1'-N1	6.20	113.16	108.20
26	BB	816	C	O5'-P-OP2	-6.20	100.12	105.70
26	BB	932	U	C5'-C4'-O4'	-6.20	101.66	109.10
26	BB	1220	G	C6-N1-C2	-6.20	121.38	125.10
26	BB	1858	A	N9-C4-C5	6.20	108.28	105.80
26	BB	2463	C	C2-N3-C4	6.20	123.00	119.90
26	BB	2669	G	C8-N9-C4	-6.20	103.92	106.40
1	AA	947	G	N3-C2-N2	-6.20	115.56	119.90
2	AB	48	U	C5'-C4'-O4'	6.20	116.54	109.10
25	BA	6	G	C4-C5-C6	-6.20	115.08	118.80
26	BB	1395	A	C5'-C4'-O4'	6.20	116.54	109.10
26	BB	1531	C	N3-C4-N4	-6.20	113.66	118.00
26	BB	1874	C	C2-N3-C4	6.20	123.00	119.90
26	BB	2499	C	C2-N3-C4	6.20	123.00	119.90
1	AA	167	A	C6-N1-C2	6.20	122.32	118.60
1	AA	348	G	O4'-C1'-N9	6.20	113.16	108.20
1	AA	458	U	C5'-C4'-C3'	-6.20	106.09	116.00
1	AA	513	C	N1-C2-O2	6.20	122.62	118.90
1	AA	1331	G	N9-C4-C5	6.20	107.88	105.40
26	BB	344	A	C4-C5-C6	-6.20	113.90	117.00
26	BB	759	G	C4-C5-N7	-6.20	108.32	110.80
26	BB	832	U	C5-C6-N1	-6.20	119.60	122.70
26	BB	1346	G	N3-C4-N9	-6.20	122.28	126.00
26	BB	1487	U	C4-C5-C6	-6.20	115.98	119.70
26	BB	1869	G	N1-C6-O6	6.20	123.62	119.90
26	BB	1918	A	C4-C5-C6	-6.20	113.90	117.00
26	BB	2057	G	N3-C4-N9	6.20	129.72	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2685	G	C5-C6-O6	-6.20	124.88	128.60
1	AA	1116	U	O4'-C1'-C2'	-6.19	99.61	105.80
1	AA	1168	U	C2-N3-C4	-6.19	123.28	127.00
1	AA	1216	A	C6-C5-N7	6.19	136.64	132.30
1	AA	1360	A	N3-C4-C5	-6.19	122.46	126.80
26	BB	129	C	O4'-C1'-N1	6.19	113.16	108.20
26	BB	227	A	N1-C6-N6	-6.19	114.88	118.60
26	BB	993	G	N3-C4-C5	-6.19	125.50	128.60
26	BB	1202	G	C5-C6-N1	6.19	114.60	111.50
26	BB	1496	A	C2-N3-C4	6.19	113.70	110.60
1	AA	541	G	N3-C4-C5	-6.19	125.50	128.60
1	AA	1020	G	C5-C6-O6	-6.19	124.88	128.60
1	AA	1076	U	C1'-O4'-C4'	6.19	114.85	109.90
1	AA	1457	G	O4'-C1'-N9	6.19	113.16	108.20
6	AF	176	THR	CA-CB-CG2	6.19	121.07	112.40
25	BA	45	A	N7-C8-N9	-6.19	110.70	113.80
26	BB	187	G	N1-C2-N3	-6.19	120.18	123.90
26	BB	789	A	O4'-C1'-C2'	-6.19	99.61	105.80
26	BB	981	A	N1-C2-N3	-6.19	126.20	129.30
26	BB	1004	U	C1'-O4'-C4'	-6.19	104.95	109.90
26	BB	1346	G	N3-C2-N2	-6.19	115.56	119.90
26	BB	1672	A	C5'-C4'-O4'	6.19	116.53	109.10
26	BB	2074	U	P-O3'-C3'	6.19	127.13	119.70
26	BB	2656	U	C4-C5-C6	6.19	123.42	119.70
26	BB	2728	U	O4'-C1'-N1	6.19	113.15	108.20
27	BC	122	ARG	CD-NE-CZ	6.19	132.27	123.60
1	AA	53	A	C5-C6-N6	-6.19	118.75	123.70
1	AA	722	G	N7-C8-N9	6.19	116.20	113.10
1	AA	932	C	O4'-C1'-C2'	6.19	113.17	107.60
1	AA	1156	G	C1'-O4'-C4'	-6.19	104.95	109.90
2	AB	5	G	O4'-C1'-N9	6.19	113.15	108.20
4	AD	70	C	C1'-O4'-C4'	-6.19	104.95	109.90
26	BB	402	A	C8-N9-C4	-6.19	103.32	105.80
26	BB	500	G	C5-C6-N1	6.19	114.59	111.50
26	BB	1148	U	N3-C4-O4	6.19	123.73	119.40
26	BB	1149	G	C6-C5-N7	-6.19	126.69	130.40
26	BB	1439	A	C8-N9-C4	-6.19	103.32	105.80
26	BB	2125	G	C5-C6-O6	-6.19	124.89	128.60
26	BB	2203	U	N1-C1'-C2'	-6.19	105.19	112.00
26	BB	2318	G	N1-C2-N2	6.19	121.77	116.20
26	BB	2381	A	C5-N7-C8	-6.19	100.81	103.90
1	AA	1305	G	C5-N7-C8	6.19	107.39	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	AK	42	GLU	OE1-CD-OE2	6.19	130.73	123.30
26	BB	1302	A	C5-C6-N1	6.19	120.79	117.70
26	BB	2110	G	O4'-C1'-N9	6.19	113.15	108.20
26	BB	2168	G	C4'-C3'-C2'	-6.19	96.41	102.60
38	BN	5	THR	CA-CB-CG2	6.19	121.06	112.40
1	AA	672	U	C3'-C2'-C1'	6.19	106.45	101.50
1	AA	906	A	N9-C1'-C2'	-6.19	105.19	112.00
1	AA	1272	G	C4-C5-N7	-6.19	108.33	110.80
3	AC	36	U	C6-N1-C2	-6.19	117.29	121.00
4	AD	62	C	C5-C4-N4	-6.19	115.87	120.20
26	BB	270	A	C6-N1-C2	6.19	122.31	118.60
26	BB	315	G	C5-N7-C8	-6.19	101.21	104.30
26	BB	1147	A	C5-N7-C8	-6.19	100.81	103.90
26	BB	1396	U	C1'-O4'-C4'	6.19	114.85	109.90
26	BB	1462	C	C4-C5-C6	-6.19	114.31	117.40
26	BB	1611	C	C6-N1-C2	6.19	122.78	120.30
26	BB	2309	A	C2-N3-C4	-6.19	107.51	110.60
36	BL	133	ALA	N-CA-CB	-6.19	101.44	110.10
1	AA	843	U	O4'-C1'-N1	6.19	113.15	108.20
1	AA	974	A	C8-N9-C4	-6.19	103.33	105.80
4	AD	34	U	C5-C6-N1	6.19	125.79	122.70
26	BB	435	C	O4'-C1'-N1	6.19	113.15	108.20
26	BB	1619	G	C5'-C4'-C3'	-6.19	106.10	116.00
26	BB	1765	U	C5-C4-O4	6.19	129.61	125.90
26	BB	1895	C	C6-N1-C2	6.19	122.77	120.30
1	AA	39	G	C6-N1-C2	-6.18	121.39	125.10
1	AA	445	G	N3-C4-C5	-6.18	125.51	128.60
1	AA	807	A	C6-C5-N7	6.18	136.63	132.30
1	AA	1119	C	N1-C2-O2	6.18	122.61	118.90
1	AA	1422	G	C6-C5-N7	-6.18	126.69	130.40
26	BB	329	G	C4-C5-N7	-6.18	108.33	110.80
26	BB	362	A	N1-C6-N6	-6.18	114.89	118.60
26	BB	1368	G	N3-C4-N9	6.18	129.71	126.00
26	BB	2209	G	N1-C6-O6	-6.18	116.19	119.90
26	BB	2351	G	P-O3'-C3'	6.18	127.12	119.70
26	BB	2573	C	C5'-C4'-O4'	6.18	116.52	109.10
26	BB	2626	C	C2-N1-C1'	-6.18	112.00	118.80
26	BB	2820	A	N3-C4-C5	-6.18	122.47	126.80
1	AA	819	A	C2-N3-C4	-6.18	107.51	110.60
1	AA	938	A	C1'-O4'-C4'	6.18	114.85	109.90
2	AB	76	A	C5-C6-N1	-6.18	114.61	117.70
4	AD	12	G	N1-C2-N2	-6.18	110.64	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	AO	113	ARG	CD-NE-CZ	6.18	132.26	123.60
25	BA	89	U	N1-C1'-C2'	6.18	122.04	114.00
26	BB	198	C	O4'-C1'-N1	6.18	113.15	108.20
26	BB	740	C	N3-C2-O2	-6.18	117.57	121.90
26	BB	916	G	C5'-C4'-O4'	6.18	116.52	109.10
26	BB	990	A	N1-C2-N3	-6.18	126.21	129.30
26	BB	1154	G	N1-C2-N3	-6.18	120.19	123.90
26	BB	1202	G	C4'-C3'-C2'	-6.18	96.42	102.60
26	BB	1495	A	C6-C5-N7	-6.18	127.97	132.30
26	BB	2234	G	N1-C6-O6	6.18	123.61	119.90
26	BB	2350	C	C6-N1-C2	-6.18	117.83	120.30
26	BB	2648	G	C6-N1-C2	6.18	128.81	125.10
40	BP	38	LEU	CB-CG-CD2	-6.18	100.49	111.00
26	BB	529	A	C4-C5-N7	-6.18	107.61	110.70
26	BB	1071	G	C5-C6-N1	6.18	114.59	111.50
26	BB	1077	A	C5'-C4'-O4'	6.18	116.52	109.10
26	BB	2016	U	O4'-C1'-C2'	6.18	113.16	107.60
26	BB	2585	U	C6-N1-C2	6.18	124.71	121.00
1	AA	300	A	C6-C5-N7	6.18	136.62	132.30
1	AA	976	G	N7-C8-N9	6.18	116.19	113.10
1	AA	1515	G	C3'-C2'-C1'	-6.18	96.56	101.50
4	AD	43	G	N1-C2-N2	-6.18	110.64	116.20
17	AQ	53	ASP	CB-CG-OD2	-6.18	112.74	118.30
25	BA	79	G	C2-N3-C4	6.18	114.99	111.90
26	BB	476	G	N7-C8-N9	6.18	116.19	113.10
26	BB	910	A	O4'-C1'-N9	-6.18	103.26	108.20
26	BB	980	A	C6-N1-C2	-6.18	114.89	118.60
26	BB	1339	G	O4'-C1'-N9	6.18	113.14	108.20
26	BB	1702	G	C5-C6-O6	6.18	132.31	128.60
26	BB	2274	A	C6-N1-C2	6.18	122.31	118.60
26	BB	2667	C	C6-N1-C2	-6.18	117.83	120.30
1	AA	641	U	P-O3'-C3'	6.18	127.11	119.70
26	BB	1231	U	N1-C1'-C2'	-6.18	105.20	112.00
26	BB	1785	A	C4'-C3'-C2'	-6.18	96.42	102.60
1	AA	318	G	C4-C5-C6	6.18	122.50	118.80
1	AA	486	U	O4'-C1'-N1	6.18	113.14	108.20
1	AA	677	U	N1-C2-O2	6.18	127.12	122.80
1	AA	717	U	C2-N3-C4	-6.18	123.29	127.00
1	AA	747	A	C5-C6-N1	-6.18	114.61	117.70
1	AA	923	A	P-O3'-C3'	6.18	127.11	119.70
26	BB	61	C	C2-N1-C1'	-6.18	112.01	118.80
26	BB	67	U	O4'-C4'-C3'	6.18	111.04	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	87	U	C2-N3-C4	-6.18	123.30	127.00
26	BB	221	A	C5-N7-C8	6.18	106.99	103.90
26	BB	473	G	C5-C6-O6	-6.18	124.89	128.60
26	BB	727	A	C5'-C4'-O4'	6.18	116.51	109.10
26	BB	850	U	C5-C6-N1	6.18	125.79	122.70
26	BB	1122	G	O4'-C1'-N9	6.18	113.14	108.20
26	BB	1245	G	C4-N9-C1'	-6.18	118.47	126.50
26	BB	1682	G	O4'-C1'-N9	6.18	113.14	108.20
26	BB	1690	A	C5-C6-N1	6.18	120.79	117.70
26	BB	1821	A	C5-N7-C8	6.18	106.99	103.90
26	BB	1991	U	N1-C2-O2	-6.18	118.48	122.80
26	BB	2091	C	C5'-C4'-O4'	6.18	116.51	109.10
26	BB	2194	U	C1'-O4'-C4'	-6.18	104.96	109.90
26	BB	2714	G	C5-C6-N1	6.18	114.59	111.50
1	AA	146	G	N9-C1'-C2'	-6.17	105.21	112.00
1	AA	232	G	C5-C6-N1	6.17	114.59	111.50
1	AA	474	G	N1-C2-N3	-6.17	120.19	123.90
1	AA	530	G	C1'-O4'-C4'	6.17	114.84	109.90
1	AA	1184	G	C2-N3-C4	6.17	114.99	111.90
2	AB	69	C	N1-C2-O2	6.17	122.61	118.90
26	BB	5	A	C5'-C4'-O4'	6.17	116.51	109.10
26	BB	53	A	O4'-C1'-N9	6.17	113.14	108.20
26	BB	94	A	C6-C5-N7	6.17	136.62	132.30
26	BB	165	A	N1-C2-N3	-6.17	126.21	129.30
26	BB	272	A	O4'-C1'-N9	6.17	113.14	108.20
26	BB	413	C	C5-C4-N4	-6.17	115.88	120.20
26	BB	625	G	C6-N1-C2	-6.17	121.39	125.10
26	BB	739	A	C5-C6-N6	-6.17	118.76	123.70
26	BB	799	G	N7-C8-N9	6.17	116.19	113.10
26	BB	1271	G	C8-N9-C4	-6.17	103.93	106.40
26	BB	1427	A	C5-N7-C8	6.17	106.99	103.90
26	BB	1994	C	C4-C5-C6	-6.17	114.31	117.40
26	BB	2305	U	N3-C2-O2	-6.17	117.88	122.20
26	BB	2309	A	O4'-C1'-N9	6.17	113.14	108.20
26	BB	2537	U	C5'-C4'-O4'	6.17	116.51	109.10
26	BB	2889	C	C6-N1-C2	6.17	122.77	120.30
1	AA	179	A	C2-N3-C4	6.17	113.69	110.60
1	AA	446	G	N3-C4-C5	-6.17	125.51	128.60
26	BB	987	C	C2-N3-C4	-6.17	116.81	119.90
26	BB	1438	U	C5-C6-N1	-6.17	119.61	122.70
26	BB	1691	C	C5-C6-N1	6.17	124.09	121.00
26	BB	2107	G	N3-C2-N2	6.17	124.22	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2720	U	C5'-C4'-O4'	6.17	116.51	109.10
1	AA	182	A	C5-N7-C8	6.17	106.98	103.90
1	AA	1177	G	C2-N3-C4	6.17	114.98	111.90
26	BB	148	U	C4-C5-C6	6.17	123.40	119.70
26	BB	454	A	P-O5'-C5'	6.17	130.77	120.90
26	BB	731	C	P-O3'-C3'	6.17	127.11	119.70
26	BB	1292	G	N1-C2-N2	6.17	121.75	116.20
26	BB	2280	G	O4'-C1'-N9	6.17	113.14	108.20
26	BB	2342	C	C2-N3-C4	-6.17	116.81	119.90
26	BB	2548	U	N3-C4-C5	6.17	118.30	114.60
26	BB	2716	C	C5'-C4'-O4'	6.17	116.51	109.10
26	BB	2739	U	C2-N3-C4	6.17	130.70	127.00
33	BI	123	ARG	CD-NE-CZ	6.17	132.24	123.60
1	AA	1032	G	C6-C5-N7	-6.17	126.70	130.40
26	BB	279	A	C2-N3-C4	6.17	113.69	110.60
26	BB	317	G	N7-C8-N9	6.17	116.19	113.10
26	BB	1210	G	C4-C5-N7	-6.17	108.33	110.80
26	BB	1936	A	N3-C4-N9	-6.17	122.46	127.40
1	AA	485	U	O4'-C1'-N1	6.17	113.14	108.20
1	AA	641	U	N1-C2-O2	6.17	127.12	122.80
1	AA	1164	G	N9-C4-C5	-6.17	102.93	105.40
2	AB	2	G	O4'-C1'-N9	6.17	113.14	108.20
26	BB	47	C	C4'-C3'-C2'	6.17	108.77	102.60
26	BB	97	C	C4'-C3'-C2'	-6.17	96.43	102.60
26	BB	372	G	C4-C5-C6	6.17	122.50	118.80
26	BB	529	A	C2-N3-C4	-6.17	107.52	110.60
26	BB	858	G	N1-C6-O6	6.17	123.60	119.90
26	BB	978	G	C4'-C3'-C2'	-6.17	96.43	102.60
26	BB	1268	A	C5-C6-N6	-6.17	118.77	123.70
26	BB	1309	G	N7-C8-N9	-6.17	110.02	113.10
26	BB	1387	A	C2-N3-C4	6.17	113.69	110.60
26	BB	1584	U	N1-C2-N3	6.17	118.60	114.90
26	BB	1696	G	N1-C2-N2	6.17	121.75	116.20
26	BB	2018	G	N1-C2-N3	-6.17	120.20	123.90
26	BB	2318	G	N9-C4-C5	-6.17	102.93	105.40
41	BQ	73	ALA	CB-CA-C	-6.17	100.85	110.10
1	AA	179	A	C5-N7-C8	-6.17	100.82	103.90
1	AA	235	C	N1-C1'-C2'	-6.17	105.22	112.00
1	AA	356	A	C1'-O4'-C4'	-6.17	104.97	109.90
1	AA	984	C	C5-C6-N1	6.17	124.08	121.00
1	AA	1210	C	C5-C6-N1	6.17	124.08	121.00
1	AA	1493	A	C4-C5-N7	6.17	113.78	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	16	A	O5'-P-OP1	-6.17	100.15	105.70
7	AG	12	ARG	NE-CZ-NH2	-6.17	117.22	120.30
26	BB	42	A	C5'-C4'-C3'	-6.17	106.13	116.00
26	BB	120	U	C5-C4-O4	6.17	129.60	125.90
26	BB	675	A	N3-C4-C5	-6.17	122.48	126.80
26	BB	713	G	C2-N3-C4	6.17	114.98	111.90
26	BB	1257	C	N3-C4-N4	6.17	122.32	118.00
26	BB	1556	C	O4'-C1'-N1	6.17	113.13	108.20
26	BB	1666	G	C6-C5-N7	6.17	134.10	130.40
26	BB	1679	A	C5-C6-N1	6.17	120.78	117.70
26	BB	1876	A	O4'-C1'-N9	6.17	113.13	108.20
1	AA	1176	A	C8-N9-C4	6.17	108.27	105.80
1	AA	1297	G	N1-C2-N2	6.17	121.75	116.20
4	AD	70	C	C4'-C3'-C2'	-6.17	96.44	102.60
26	BB	801	G	N3-C4-C5	-6.17	125.52	128.60
26	BB	1648	U	C5'-C4'-O4'	6.17	116.50	109.10
26	BB	1652	A	C5-C6-N1	6.17	120.78	117.70
26	BB	2127	G	C5-C6-N1	6.17	114.58	111.50
26	BB	2639	A	C4-C5-C6	-6.17	113.92	117.00
1	AA	710	G	N1-C2-N2	6.16	121.75	116.20
1	AA	1013	G	C8-N9-C4	-6.16	103.94	106.40
1	AA	1123	U	C2-N3-C4	-6.16	123.30	127.00
1	AA	1156	G	N3-C4-C5	-6.16	125.52	128.60
1	AA	1300	G	N7-C8-N9	6.16	116.18	113.10
1	AA	1400	C	N3-C4-C5	6.16	124.36	121.90
4	AD	73	A	P-O3'-C3'	6.16	127.09	119.70
26	BB	38	A	N9-C1'-C2'	-6.16	105.22	112.00
26	BB	1108	U	C6-N1-C2	6.16	124.70	121.00
26	BB	1531	C	N1-C2-O2	6.16	122.60	118.90
26	BB	1672	A	O4'-C1'-N9	-6.16	103.27	108.20
26	BB	1737	G	N9-C4-C5	6.16	107.86	105.40
26	BB	1875	G	C5-C6-N1	6.16	114.58	111.50
26	BB	2522	U	O4'-C1'-N1	6.16	113.13	108.20
26	BB	2586	U	N1-C2-O2	-6.16	118.48	122.80
26	BB	2660	A	C5-N7-C8	-6.16	100.82	103.90
1	AA	1291	U	P-O3'-C3'	6.16	127.09	119.70
45	BU	38	TYR	N-CA-CB	-6.16	99.51	110.60
1	AA	1229	A	O3'-P-O5'	-6.16	92.30	104.00
1	AA	1235	U	C5'-C4'-C3'	-6.16	106.14	116.00
1	AA	1235	U	C5'-C4'-O4'	6.16	116.49	109.10
1	AA	1282	C	C6-N1-C2	6.16	122.76	120.30
1	AA	1484	C	C5-C6-N1	-6.16	117.92	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1504	G	C5-C6-N1	6.16	114.58	111.50
4	AD	59	A	C5-N7-C8	6.16	106.98	103.90
25	BA	12	C	N1-C2-O2	6.16	122.60	118.90
26	BB	250	G	C1'-O4'-C4'	-6.16	104.97	109.90
26	BB	731	C	N1-C2-N3	6.16	123.51	119.20
26	BB	741	U	C5-C6-N1	-6.16	119.62	122.70
26	BB	983	A	O4'-C1'-N9	6.16	113.13	108.20
26	BB	1582	C	N1-C2-N3	6.16	123.51	119.20
26	BB	1710	G	C4-C5-C6	6.16	122.50	118.80
26	BB	2246	G	O4'-C4'-C3'	6.16	111.03	106.10
26	BB	2682	A	C5-C6-N6	-6.16	118.77	123.70
26	BB	2786	U	C1'-O4'-C4'	-6.16	104.97	109.90
1	AA	570	G	C6-N1-C2	-6.16	121.41	125.10
4	AD	9	G	O4'-C1'-N9	6.16	113.13	108.20
4	AD	74	A	C5-C6-N1	6.16	120.78	117.70
25	BA	32	U	C2-N3-C4	-6.16	123.31	127.00
25	BA	62	C	C1'-O4'-C4'	6.16	114.83	109.90
26	BB	10	A	C3'-C2'-C1'	6.16	106.43	101.50
26	BB	190	A	N3-C4-N9	-6.16	122.47	127.40
26	BB	235	U	P-O3'-C3'	6.16	127.09	119.70
26	BB	458	G	O4'-C1'-N9	6.16	113.13	108.20
26	BB	1330	C	N3-C4-C5	-6.16	119.44	121.90
26	BB	1883	U	O4'-C1'-N1	6.16	113.13	108.20
26	BB	1999	C	O4'-C1'-N1	6.16	113.13	108.20
26	BB	2012	G	C4'-C3'-C2'	-6.16	96.44	102.60
26	BB	2358	A	C8-N9-C4	-6.16	103.34	105.80
26	BB	2521	C	C4-C5-C6	-6.16	114.32	117.40
29	BE	188	LEU	CB-CG-CD1	6.16	121.47	111.00
1	AA	25	C	O4'-C4'-C3'	6.16	111.03	106.10
1	AA	889	A	O4'-C1'-N9	6.16	113.13	108.20
3	AC	59	A	C8-N9-C4	-6.16	103.34	105.80
26	BB	881	G	C6-C5-N7	-6.16	126.71	130.40
26	BB	1496	A	N3-C4-N9	6.16	132.32	127.40
26	BB	1728	C	C3'-C2'-C1'	6.16	106.43	101.50
26	BB	2412	A	C5'-C4'-C3'	-6.16	106.15	116.00
26	BB	2791	G	C4-C5-N7	6.16	113.26	110.80
29	BE	141	ARG	NE-CZ-NH1	-6.16	117.22	120.30
43	BS	17	LEU	CB-CG-CD1	-6.16	100.53	111.00
1	AA	122	G	C5-C6-O6	-6.16	124.91	128.60
21	AU	5	ARG	NE-CZ-NH1	6.16	123.38	120.30
26	BB	91	A	N7-C8-N9	6.16	116.88	113.80
26	BB	99	U	C4-C5-C6	6.16	123.39	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	328	U	N3-C4-C5	6.16	118.29	114.60
26	BB	1028	A	C6-N1-C2	6.16	122.29	118.60
26	BB	1282	U	C4'-C3'-C2'	-6.16	96.44	102.60
26	BB	1725	U	C3'-C2'-C1'	6.16	106.42	101.50
26	BB	2106	U	N3-C4-C5	-6.16	110.91	114.60
26	BB	2131	U	C1'-O4'-C4'	6.16	114.83	109.90
26	BB	2378	A	N9-C1'-C2'	-6.16	105.23	112.00
26	BB	2788	C	N1-C2-O2	6.16	122.59	118.90
26	BB	2792	A	C5-C6-N1	-6.16	114.62	117.70
28	BD	181	ARG	NE-CZ-NH2	-6.16	117.22	120.30
42	BR	92	ARG	NE-CZ-NH2	6.16	123.38	120.30
49	BY	62	ALA	CB-CA-C	6.16	119.33	110.10
1	AA	175	C	N3-C2-O2	-6.15	117.59	121.90
1	AA	405	U	C6-N1-C2	-6.15	117.31	121.00
1	AA	442	G	C5'-C4'-O4'	6.15	116.48	109.10
1	AA	626	G	C2-N3-C4	6.15	114.98	111.90
1	AA	1240	U	O4'-C1'-N1	6.15	113.12	108.20
26	BB	35	G	C8-N9-C4	6.15	108.86	106.40
26	BB	1384	A	O4'-C1'-C2'	6.15	113.14	107.60
26	BB	1510	G	N9-C4-C5	6.15	107.86	105.40
26	BB	1837	C	N3-C4-C5	-6.15	119.44	121.90
26	BB	2751	G	C5-N7-C8	-6.15	101.22	104.30
1	AA	358	U	N1-C1'-C2'	-6.15	105.23	112.00
1	AA	1424	U	N3-C4-C5	-6.15	110.91	114.60
3	AC	52	U	C2-N1-C1'	6.15	125.08	117.70
4	AD	26	C	N3-C2-O2	-6.15	117.59	121.90
26	BB	711	G	N1-C2-N3	-6.15	120.21	123.90
26	BB	734	A	O4'-C1'-N9	-6.15	103.28	108.20
26	BB	804	A	C4-C5-N7	-6.15	107.62	110.70
26	BB	1783	A	N9-C4-C5	6.15	108.26	105.80
26	BB	2124	G	C8-N9-C1'	6.15	135.00	127.00
40	BP	71	ARG	NE-CZ-NH2	6.15	123.38	120.30
1	AA	306	A	C5'-C4'-O4'	6.15	116.48	109.10
1	AA	805	C	N1-C2-O2	6.15	122.59	118.90
1	AA	924	C	N3-C4-C5	-6.15	119.44	121.90
1	AA	941	G	C8-N9-C4	-6.15	103.94	106.40
1	AA	996	A	N1-C2-N3	-6.15	126.22	129.30
2	AB	29	G	C4-C5-N7	6.15	113.26	110.80
25	BA	34	A	O4'-C1'-N9	6.15	113.12	108.20
26	BB	443	A	C8-N9-C4	-6.15	103.34	105.80
26	BB	1066	U	C6-N1-C2	-6.15	117.31	121.00
26	BB	1313	U	C2-N1-C1'	6.15	125.08	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1502	A	N9-C1'-C2'	-6.15	105.23	112.00
26	BB	1589	U	C4'-C3'-C2'	-6.15	96.45	102.60
26	BB	2524	G	P-O3'-C3'	6.15	127.08	119.70
26	BB	2572	A	P-O5'-C5'	6.15	130.74	120.90
26	BB	2679	A	C6-C5-N7	6.15	136.60	132.30
29	BE	90	PHE	CB-CG-CD2	6.15	125.11	120.80
1	AA	333	U	N1-C2-O2	6.15	127.10	122.80
1	AA	1448	C	C5'-C4'-C3'	-6.15	106.16	116.00
1	AA	1507	A	N1-C2-N3	-6.15	126.22	129.30
26	BB	130	C	P-O3'-C3'	6.15	127.08	119.70
26	BB	320	A	C2-N3-C4	6.15	113.67	110.60
26	BB	2637	U	C4-C5-C6	-6.15	116.01	119.70
1	AA	120	A	O5'-P-OP2	-6.15	100.17	105.70
1	AA	797	C	C2-N3-C4	-6.15	116.83	119.90
1	AA	1456	A	N9-C1'-C2'	-6.15	105.24	112.00
26	BB	42	A	C8-N9-C4	-6.15	103.34	105.80
26	BB	254	G	N7-C8-N9	6.15	116.17	113.10
26	BB	931	U	N3-C4-O4	6.15	123.70	119.40
26	BB	1400	U	C2'-C3'-O3'	6.15	123.54	113.70
26	BB	1776	G	N3-C4-N9	6.15	129.69	126.00
26	BB	2024	G	P-O3'-C3'	6.15	127.08	119.70
26	BB	2073	C	O4'-C1'-N1	6.15	113.12	108.20
26	BB	2866	U	N1-C2-N3	6.15	118.59	114.90
1	AA	1096	C	N3-C2-O2	-6.15	117.60	121.90
15	AO	98	ARG	NE-CZ-NH2	-6.15	117.23	120.30
26	BB	1169	A	C4'-C3'-C2'	-6.15	96.45	102.60
26	BB	1410	G	N3-C4-N9	6.15	129.69	126.00
1	AA	756	C	C5-C6-N1	6.14	124.07	121.00
1	AA	980	C	C4'-C3'-C2'	-6.14	96.46	102.60
1	AA	1262	C	C5-C6-N1	6.14	124.07	121.00
1	AA	1296	C	O4'-C4'-C3'	-6.14	97.86	104.00
1	AA	1413	A	N7-C8-N9	6.14	116.87	113.80
26	BB	326	G	C4-C5-N7	-6.14	108.34	110.80
26	BB	713	G	C6-N1-C2	-6.14	121.41	125.10
26	BB	1640	A	N3-C4-C5	-6.14	122.50	126.80
26	BB	2107	G	C5'-C4'-O4'	6.14	116.47	109.10
26	BB	2391	G	C6-N1-C2	-6.14	121.41	125.10
26	BB	2476	A	N1-C2-N3	-6.14	126.23	129.30
26	BB	2810	A	N7-C8-N9	6.14	116.87	113.80
1	AA	517	G	C3'-C2'-C1'	6.14	106.41	101.50
1	AA	1503	A	C8-N9-C4	-6.14	103.34	105.80
26	BB	791	C	C6-N1-C2	-6.14	117.84	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	799	G	N3-C4-C5	-6.14	125.53	128.60
26	BB	909	A	P-O3'-C3'	6.14	127.07	119.70
26	BB	2081	U	O4'-C1'-C2'	-6.14	99.66	105.80
26	BB	2450	A	O4'-C1'-N9	6.14	113.11	108.20
26	BB	2643	G	C2-N3-C4	6.14	114.97	111.90
34	BJ	93	ARG	NE-CZ-NH2	-6.14	117.23	120.30
36	BL	17	VAL	CA-CB-CG1	6.14	120.11	110.90
1	AA	319	G	C4-C5-C6	6.14	122.48	118.80
1	AA	404	G	C8-N9-C4	-6.14	103.94	106.40
1	AA	913	A	N7-C8-N9	6.14	116.87	113.80
1	AA	994	A	C8-N9-C4	6.14	108.26	105.80
1	AA	1208	C	C2-N3-C4	-6.14	116.83	119.90
26	BB	13	A	C1'-O4'-C4'	-6.14	104.99	109.90
26	BB	345	A	O4'-C1'-N9	6.14	113.11	108.20
26	BB	503	A	C1'-O4'-C4'	-6.14	104.99	109.90
26	BB	833	A	C5'-C4'-O4'	6.14	116.47	109.10
26	BB	2193	G	C4-C5-N7	-6.14	108.34	110.80
26	BB	2529	G	C4-C5-N7	-6.14	108.34	110.80
26	BB	2692	G	C3'-C2'-C1'	6.14	106.41	101.50
1	AA	51	A	C2-N3-C4	6.14	113.67	110.60
1	AA	346	G	C6-C5-N7	-6.14	126.72	130.40
1	AA	991	U	C2-N3-C4	-6.14	123.32	127.00
1	AA	1015	G	N9-C4-C5	-6.14	102.94	105.40
1	AA	1139	G	C6-C5-N7	6.14	134.08	130.40
1	AA	1383	C	C5-C4-N4	-6.14	115.90	120.20
25	BA	50	A	C6-C5-N7	6.14	136.60	132.30
26	BB	287	G	O4'-C4'-C3'	-6.14	97.86	104.00
26	BB	447	A	C5-C6-N1	6.14	120.77	117.70
26	BB	596	U	C5-C6-N1	6.14	125.77	122.70
26	BB	967	U	C4-C5-C6	6.14	123.38	119.70
26	BB	1129	A	N3-C4-C5	-6.14	122.50	126.80
26	BB	1302	A	C1'-O4'-C4'	6.14	114.81	109.90
26	BB	1658	C	C4'-C3'-C2'	-6.14	96.46	102.60
26	BB	2087	G	C4'-C3'-C2'	-6.14	96.46	102.60
26	BB	2347	C	C2-N3-C4	6.14	122.97	119.90
26	BB	2471	A	C1'-O4'-C4'	-6.14	104.99	109.90
26	BB	2657	A	N7-C8-N9	-6.14	110.73	113.80
26	BB	2752	C	C2-N3-C4	-6.14	116.83	119.90
1	AA	317	U	C4-C5-C6	6.14	123.38	119.70
1	AA	501	C	C5-C6-N1	6.14	124.07	121.00
1	AA	730	G	C5-C6-O6	-6.14	124.92	128.60
1	AA	788	U	O4'-C1'-C2'	6.14	113.12	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	93	C	C4'-C3'-C2'	-6.14	96.46	102.60
26	BB	387	U	N1-C2-O2	6.14	127.10	122.80
26	BB	652	U	C1'-O4'-C4'	-6.14	104.99	109.90
26	BB	1088	A	C6-C5-N7	6.14	136.60	132.30
26	BB	2271	G	N3-C4-C5	-6.14	125.53	128.60
26	BB	2470	G	N3-C4-N9	6.14	129.68	126.00
32	BH	2	ARG	NE-CZ-NH1	-6.14	117.23	120.30
1	AA	731	G	C5-C6-O6	-6.14	124.92	128.60
1	AA	1164	G	C6-C5-N7	-6.14	126.72	130.40
1	AA	1240	U	N1-C2-N3	-6.14	111.22	114.90
1	AA	1340	A	C5'-C4'-C3'	-6.14	106.18	116.00
1	AA	1528	U	C1'-O4'-C4'	-6.14	104.99	109.90
9	AI	24	ARG	NE-CZ-NH2	-6.14	117.23	120.30
26	BB	214	G	C5-C6-N1	6.14	114.57	111.50
26	BB	275	C	C2-N3-C4	6.14	122.97	119.90
26	BB	308	G	P-O3'-C3'	6.14	127.06	119.70
26	BB	342	A	C5'-C4'-O4'	6.14	116.46	109.10
26	BB	589	U	C3'-C2'-C1'	6.14	106.41	101.50
26	BB	606	U	C5-C6-N1	-6.14	119.63	122.70
26	BB	1283	G	N3-C4-N9	-6.14	122.32	126.00
26	BB	2024	G	N3-C4-C5	-6.14	125.53	128.60
26	BB	2066	C	C6-N1-C2	-6.14	117.84	120.30
26	BB	2220	U	C5-C6-N1	-6.14	119.63	122.70
26	BB	2328	A	C5'-C4'-O4'	6.14	116.46	109.10
26	BB	2569	G	C4'-C3'-C2'	-6.14	96.46	102.60
26	BB	2655	G	N9-C4-C5	-6.14	102.95	105.40
26	BB	2792	A	C6-N1-C2	6.14	122.28	118.60
1	AA	911	U	C6-N1-C1'	-6.13	112.61	121.20
1	AA	1196	A	C4-C5-C6	-6.13	113.93	117.00
1	AA	1415	G	N3-C4-C5	-6.13	125.53	128.60
6	AF	30	ASP	CB-CG-OD1	6.13	123.82	118.30
26	BB	759	G	O4'-C1'-N9	6.13	113.11	108.20
26	BB	829	A	P-O3'-C3'	6.13	127.06	119.70
26	BB	984	A	C4-C5-N7	-6.13	107.63	110.70
26	BB	1169	A	C5-C6-N1	-6.13	114.63	117.70
26	BB	1265	A	O4'-C1'-N9	6.13	113.11	108.20
26	BB	1892	C	N1-C2-O2	6.13	122.58	118.90
26	BB	2330	G	C4'-C3'-C2'	6.13	108.73	102.60
26	BB	2357	G	C6-N1-C2	-6.13	121.42	125.10
26	BB	2425	A	P-O3'-C3'	6.13	127.06	119.70
1	AA	786	G	C3'-C2'-C1'	6.13	106.41	101.50
1	AA	793	U	O4'-C1'-C2'	-6.13	99.67	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2276	G	C8-N9-C4	6.13	108.85	106.40
1	AA	1053	G	C4-N9-C1'	-6.13	118.53	126.50
2	AB	4	G	C3'-C2'-C1'	6.13	106.41	101.50
6	AF	28	PHE	CB-CG-CD1	6.13	125.09	120.80
26	BB	1474	U	P-O3'-C3'	6.13	127.06	119.70
26	BB	1979	U	N1-C2-N3	6.13	118.58	114.90
26	BB	2246	G	C5-C6-N1	6.13	114.57	111.50
26	BB	2534	A	C4-C5-N7	6.13	113.77	110.70
26	BB	2564	A	C1'-O4'-C4'	6.13	114.81	109.90
1	AA	674	G	O4'-C1'-N9	6.13	113.10	108.20
26	BB	390	U	O4'-C1'-N1	6.13	113.10	108.20
26	BB	1645	G	C6-C5-N7	-6.13	126.72	130.40
34	BJ	55	ARG	NE-CZ-NH1	-6.13	117.23	120.30
54	B3	19	ASP	CB-CG-OD1	-6.13	112.78	118.30
1	AA	350	G	O5'-P-OP1	6.13	118.06	110.70
1	AA	712	A	N9-C4-C5	6.13	108.25	105.80
1	AA	986	U	O4'-C1'-N1	6.13	113.10	108.20
1	AA	1458	G	N1-C2-N3	-6.13	120.22	123.90
10	AJ	108	ARG	NH1-CZ-NH2	-6.13	112.66	119.40
26	BB	17	G	N9-C4-C5	6.13	107.85	105.40
26	BB	481	G	C4-C5-N7	6.13	113.25	110.80
26	BB	985	C	N1-C2-N3	6.13	123.49	119.20
26	BB	1161	C	O4'-C1'-N1	6.13	113.10	108.20
26	BB	1450	G	N3-C4-N9	-6.13	122.32	126.00
26	BB	1523	U	N3-C2-O2	-6.13	117.91	122.20
26	BB	2332	C	C4-C5-C6	6.13	120.46	117.40
1	AA	38	G	C4-C5-C6	6.13	122.48	118.80
1	AA	179	A	C4-C5-C6	6.13	120.06	117.00
1	AA	634	C	C6-N1-C2	-6.13	117.85	120.30
1	AA	1013	G	C4-C5-N7	-6.13	108.35	110.80
1	AA	1102	A	C2-N3-C4	6.13	113.66	110.60
21	AU	58	ILE	CA-CB-CG2	6.13	123.15	110.90
26	BB	809	G	N1-C2-N2	6.13	121.71	116.20
26	BB	1024	G	N3-C4-C5	-6.13	125.54	128.60
26	BB	1640	A	C8-N9-C4	-6.13	103.35	105.80
26	BB	1887	C	C4'-C3'-C2'	-6.13	96.47	102.60
26	BB	1973	G	C5'-C4'-O4'	6.13	116.45	109.10
26	BB	2275	C	N3-C4-C5	-6.13	119.45	121.90
26	BB	2579	C	C4-C5-C6	6.13	120.46	117.40
26	BB	2660	A	N3-C4-C5	-6.13	122.51	126.80
26	BB	2701	U	C5-C4-O4	-6.13	122.22	125.90
26	BB	2732	G	O4'-C1'-C2'	6.13	113.11	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	495	G	N7-C8-N9	6.12	116.16	113.10
39	BO	109	PRO	CA-N-CD	-6.12	102.92	111.50
1	AA	16	A	N1-C6-N6	-6.12	114.93	118.60
1	AA	307	C	N3-C2-O2	-6.12	117.61	121.90
1	AA	1104	G	N3-C4-N9	6.12	129.67	126.00
1	AA	1113	C	P-O3'-C3'	6.12	127.05	119.70
1	AA	1441	A	N1-C6-N6	6.12	122.27	118.60
1	AA	1460	C	C6-N1-C2	6.12	122.75	120.30
2	AB	35	C	N1-C2-O2	6.12	122.57	118.90
2	AB	43	G	C6-C5-N7	-6.12	126.73	130.40
26	BB	39	G	N7-C8-N9	-6.12	110.04	113.10
26	BB	383	C	O4'-C1'-N1	6.12	113.10	108.20
26	BB	543	G	N1-C2-N3	-6.12	120.23	123.90
26	BB	839	U	C1'-O4'-C4'	-6.12	105.00	109.90
26	BB	1473	G	N7-C8-N9	6.12	116.16	113.10
26	BB	1477	A	C5-N7-C8	-6.12	100.84	103.90
26	BB	1573	G	N7-C8-N9	-6.12	110.04	113.10
26	BB	1663	G	C5-N7-C8	6.12	107.36	104.30
26	BB	2023	C	C2-N3-C4	-6.12	116.84	119.90
26	BB	2100	G	C1'-O4'-C4'	-6.12	105.00	109.90
26	BB	2394	C	C6-N1-C2	-6.12	117.85	120.30
26	BB	2705	A	N9-C4-C5	6.12	108.25	105.80
26	BB	2724	U	C5-C6-N1	-6.12	119.64	122.70
1	AA	222	C	N3-C4-C5	-6.12	119.45	121.90
1	AA	628	G	N7-C8-N9	6.12	116.16	113.10
1	AA	1013	G	O4'-C1'-N9	6.12	113.10	108.20
1	AA	1014	A	N1-C6-N6	-6.12	114.93	118.60
1	AA	1098	C	N3-C4-N4	6.12	122.28	118.00
1	AA	1224	U	C1'-O4'-C4'	6.12	114.80	109.90
1	AA	1366	C	O4'-C1'-N1	6.12	113.10	108.20
2	AB	31	U	C3'-C2'-C1'	-6.12	96.60	101.50
26	BB	195	A	C1'-O4'-C4'	-6.12	105.00	109.90
26	BB	753	A	C8-N9-C4	-6.12	103.35	105.80
26	BB	1537	G	C5-C6-N1	6.12	114.56	111.50
26	BB	2065	C	O4'-C1'-N1	6.12	113.10	108.20
26	BB	2490	G	C4-C5-N7	-6.12	108.35	110.80
26	BB	2511	U	C4-C5-C6	6.12	123.37	119.70
36	BL	116	ARG	NE-CZ-NH1	-6.12	117.24	120.30
1	AA	126	G	N9-C1'-C2'	-6.12	105.27	112.00
1	AA	1177	G	C5'-C4'-C3'	-6.12	106.21	116.00
25	BA	67	G	O4'-C1'-N9	6.12	113.10	108.20
26	BB	94	A	C6-N1-C2	6.12	122.27	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	210	C	C4-C5-C6	-6.12	114.34	117.40
26	BB	587	C	N3-C4-N4	6.12	122.28	118.00
26	BB	1331	G	N3-C4-N9	6.12	129.67	126.00
26	BB	1625	C	P-O5'-C5'	6.12	130.69	120.90
26	BB	2333	A	N7-C8-N9	6.12	116.86	113.80
26	BB	2363	G	N9-C4-C5	6.12	107.85	105.40
1	AA	97	G	C2-N3-C4	6.12	114.96	111.90
1	AA	114	U	N3-C2-O2	-6.12	117.92	122.20
1	AA	463	U	C6-N1-C2	-6.12	117.33	121.00
1	AA	477	C	O5'-P-OP2	-6.12	100.19	105.70
25	BA	85	G	P-O5'-C5'	6.12	130.69	120.90
26	BB	20	C	N3-C2-O2	-6.12	117.62	121.90
26	BB	1057	A	C5'-C4'-O4'	6.12	116.44	109.10
26	BB	1401	G	C6-C5-N7	-6.12	126.73	130.40
26	BB	1567	G	C3'-C2'-C1'	6.12	106.39	101.50
26	BB	1646	C	C6-N1-C2	-6.12	117.85	120.30
26	BB	2421	G	C4-C5-N7	-6.12	108.35	110.80
29	BE	59	ARG	NH1-CZ-NH2	-6.12	112.67	119.40
1	AA	859	G	N3-C2-N2	6.12	124.18	119.90
26	BB	204	A	C4-C5-N7	6.12	113.76	110.70
26	BB	602	A	O4'-C1'-N9	6.12	113.09	108.20
26	BB	619	G	C5'-C4'-O4'	6.12	116.44	109.10
26	BB	923	G	C8-N9-C4	-6.12	103.95	106.40
26	BB	1262	A	N7-C8-N9	6.12	116.86	113.80
26	BB	2058	A	N3-C4-C5	-6.12	122.52	126.80
26	BB	2182	U	O4'-C1'-N1	6.12	113.09	108.20
26	BB	2219	U	N3-C2-O2	-6.12	117.92	122.20
26	BB	2337	G	C4-C5-N7	6.12	113.25	110.80
26	BB	2562	U	C4'-C3'-C2'	-6.12	96.48	102.60
26	BB	2668	G	C8-N9-C4	-6.12	103.95	106.40
1	AA	1163	A	C1'-O4'-C4'	-6.12	105.01	109.90
10	AJ	108	ARG	NE-CZ-NH2	6.12	123.36	120.30
26	BB	145	C	C5-C6-N1	6.12	124.06	121.00
26	BB	585	G	C5-N7-C8	6.12	107.36	104.30
26	BB	1135	C	C2-N3-C4	6.12	122.96	119.90
26	BB	1183	U	C2-N3-C4	-6.12	123.33	127.00
26	BB	1381	G	C4-C5-N7	-6.12	108.35	110.80
26	BB	1391	U	C2-N3-C4	-6.12	123.33	127.00
26	BB	1523	U	C5'-C4'-O4'	6.12	116.44	109.10
26	BB	1872	A	P-O3'-C3'	6.12	127.04	119.70
26	BB	1983	G	C4'-C3'-C2'	-6.12	96.48	102.60
26	BB	2040	G	C5-C6-N1	6.12	114.56	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2181	U	C2-N3-C4	-6.12	123.33	127.00
26	BB	2432	A	C5-C6-N1	6.12	120.76	117.70
26	BB	2787	C	C5-C4-N4	-6.12	115.92	120.20
28	BD	167	ASP	CB-CG-OD2	-6.12	112.80	118.30
1	AA	49	U	N3-C2-O2	-6.11	117.92	122.20
1	AA	227	G	C5-N7-C8	6.11	107.36	104.30
1	AA	259	G	P-O3'-C3'	6.11	127.04	119.70
1	AA	936	C	N1-C2-O2	6.11	122.57	118.90
1	AA	1275	A	C2-N3-C4	6.11	113.66	110.60
26	BB	880	G	C1'-O4'-C4'	6.11	114.79	109.90
26	BB	1310	G	N1-C2-N3	6.11	127.57	123.90
26	BB	2140	G	C4'-C3'-C2'	-6.11	96.49	102.60
26	BB	2777	G	C6-N1-C2	-6.11	121.43	125.10
30	BF	112	LEU	CB-CG-CD2	6.11	121.39	111.00
1	AA	49	U	C2-N1-C1'	6.11	125.03	117.70
1	AA	85	U	O4'-C1'-C2'	-6.11	99.69	105.80
1	AA	621	A	N3-C4-N9	6.11	132.29	127.40
1	AA	882	C	C3'-C2'-C1'	6.11	106.39	101.50
1	AA	1023	U	C3'-C2'-C1'	6.11	106.39	101.50
1	AA	1190	G	N7-C8-N9	6.11	116.16	113.10
4	AD	64	G	N7-C8-N9	-6.11	110.04	113.10
26	BB	16	C	C4'-C3'-C2'	-6.11	96.49	102.60
26	BB	271	G	N3-C2-N2	-6.11	115.62	119.90
26	BB	2002	G	N9-C4-C5	-6.11	102.95	105.40
1	AA	470	C	C5'-C4'-O4'	6.11	116.43	109.10
1	AA	576	C	O4'-C1'-N1	6.11	113.09	108.20
1	AA	1490	U	C6-N1-C2	6.11	124.67	121.00
1	AA	1500	A	O4'-C1'-N9	6.11	113.09	108.20
5	AE	174	GLU	OE1-CD-OE2	6.11	130.63	123.30
26	BB	1080	A	C5-C6-N6	-6.11	118.81	123.70
26	BB	1137	G	C1'-O4'-C4'	6.11	114.79	109.90
26	BB	1231	U	O4'-C1'-C2'	-6.11	99.69	105.80
26	BB	2598	A	N7-C8-N9	-6.11	110.75	113.80
1	AA	347	G	C3'-C2'-C1'	6.11	106.39	101.50
1	AA	630	A	C2-N3-C4	6.11	113.66	110.60
1	AA	673	A	C4-C5-N7	-6.11	107.64	110.70
1	AA	1215	G	N3-C4-C5	-6.11	125.55	128.60
19	AS	28	ARG	CD-NE-CZ	6.11	132.15	123.60
26	BB	420	C	N3-C2-O2	-6.11	117.62	121.90
26	BB	713	G	N3-C4-N9	-6.11	122.33	126.00
26	BB	2292	U	C2-N3-C4	-6.11	123.33	127.00
26	BB	2468	A	O3'-P-O5'	-6.11	92.39	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1	A	N3-C4-C5	-6.11	122.53	126.80
1	AA	12	U	C2-N3-C4	-6.11	123.34	127.00
1	AA	110	C	N3-C2-O2	-6.11	117.62	121.90
1	AA	313	A	C5-C6-N1	-6.11	114.65	117.70
1	AA	771	G	C6-N1-C2	-6.11	121.44	125.10
1	AA	1059	C	O4'-C1'-N1	6.11	113.09	108.20
1	AA	1251	A	C8-N9-C4	-6.11	103.36	105.80
1	AA	1276	G	N9-C4-C5	6.11	107.84	105.40
1	AA	1317	C	C2-N3-C4	6.11	122.95	119.90
26	BB	739	A	N1-C6-N6	6.11	122.26	118.60
26	BB	976	G	N3-C4-N9	6.11	129.66	126.00
26	BB	2194	U	N3-C2-O2	-6.11	117.92	122.20
26	BB	2650	U	C3'-C2'-C1'	6.11	106.39	101.50
40	BP	12	ARG	NE-CZ-NH2	-6.11	117.25	120.30
1	AA	693	G	C2-N3-C4	-6.11	108.85	111.90
1	AA	735	C	C4-C5-C6	-6.11	114.35	117.40
1	AA	763	G	N7-C8-N9	6.11	116.15	113.10
1	AA	809	G	C6-C5-N7	-6.11	126.74	130.40
1	AA	908	A	C5-N7-C8	6.11	106.95	103.90
1	AA	1112	C	O4'-C1'-N1	6.11	113.08	108.20
1	AA	1154	G	C2-N3-C4	6.11	114.95	111.90
1	AA	1369	C	C2-N3-C4	6.11	122.95	119.90
3	AC	23	C	C4'-C3'-C2'	-6.11	96.49	102.60
3	AC	53	G	N3-C4-C5	-6.11	125.55	128.60
13	AM	37	ARG	NE-CZ-NH1	6.11	123.35	120.30
26	BB	879	G	C5-N7-C8	-6.11	101.25	104.30
26	BB	1072	C	N1-C1'-C2'	-6.11	105.28	112.00
26	BB	1288	G	O4'-C4'-C3'	6.11	110.98	106.10
26	BB	1825	U	O3'-P-O5'	-6.11	92.40	104.00
26	BB	1981	A	C8-N9-C1'	6.11	138.69	127.70
26	BB	2508	G	C2-N3-C4	-6.11	108.85	111.90
26	BB	2518	A	C3'-C2'-C1'	-6.11	96.61	101.50
1	AA	545	C	C4'-C3'-C2'	-6.10	96.50	102.60
26	BB	262	A	C5'-C4'-C3'	-6.10	106.23	116.00
26	BB	708	G	N9-C4-C5	6.10	107.84	105.40
26	BB	2225	A	C6-C5-N7	6.10	136.57	132.30
1	AA	275	G	C5'-C4'-O4'	6.10	116.42	109.10
1	AA	609	A	C5'-C4'-O4'	6.10	116.42	109.10
1	AA	978	A	C8-N9-C4	-6.10	103.36	105.80
1	AA	1137	C	N1-C2-O2	6.10	122.56	118.90
2	AB	75	C	P-O3'-C3'	6.10	127.02	119.70
26	BB	363	G	C6-C5-N7	-6.10	126.74	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	819	A	C5'-C4'-O4'	6.10	116.42	109.10
26	BB	927	A	N7-C8-N9	6.10	116.85	113.80
26	BB	1214	A	C5'-C4'-C3'	-6.10	106.24	116.00
26	BB	1331	G	C8-N9-C4	-6.10	103.96	106.40
26	BB	1615	C	N3-C4-N4	6.10	122.27	118.00
26	BB	2165	C	N1-C1'-C2'	6.10	121.93	114.00
26	BB	2657	A	C5'-C4'-O4'	6.10	116.42	109.10
1	AA	494	G	N9-C4-C5	-6.10	102.96	105.40
1	AA	1451	U	N3-C2-O2	-6.10	117.93	122.20
5	AE	22	TRP	CD1-NE1-CE2	6.10	114.49	109.00
26	BB	1734	G	C2-N3-C4	6.10	114.95	111.90
26	BB	2480	C	C6-N1-C2	6.10	122.74	120.30
5	AE	73	ARG	CB-CA-C	6.10	122.60	110.40
21	AU	72	ARG	NE-CZ-NH1	-6.10	117.25	120.30
26	BB	9	G	N1-C2-N3	-6.10	120.24	123.90
26	BB	387	U	C4-C5-C6	6.10	123.36	119.70
26	BB	481	G	C6-C5-N7	-6.10	126.74	130.40
26	BB	982	C	C2-N3-C4	6.10	122.95	119.90
26	BB	1148	U	O4'-C1'-N1	6.10	113.08	108.20
26	BB	1225	G	C5-N7-C8	6.10	107.35	104.30
26	BB	2065	C	C4-C5-C6	6.10	120.45	117.40
26	BB	2540	C	C6-N1-C1'	6.10	128.12	120.80
26	BB	2560	A	C5-C6-N6	6.10	128.58	123.70
26	BB	2588	G	C4-C5-C6	6.10	122.46	118.80
26	BB	2842	G	C5'-C4'-O4'	6.10	116.42	109.10
1	AA	222	C	N1-C1'-C2'	-6.10	105.29	112.00
1	AA	778	G	O4'-C1'-N9	6.10	113.08	108.20
1	AA	867	G	O4'-C1'-N9	6.10	113.08	108.20
1	AA	1437	A	N7-C8-N9	6.10	116.85	113.80
3	AC	37	G	P-O3'-C3'	6.10	127.02	119.70
4	AD	24	C	C5-C6-N1	-6.10	117.95	121.00
26	BB	851	C	N3-C4-N4	6.10	122.27	118.00
26	BB	877	A	C2-N3-C4	6.10	113.65	110.60
26	BB	1153	C	O4'-C1'-N1	6.10	113.08	108.20
26	BB	1268	A	C8-N9-C4	-6.10	103.36	105.80
26	BB	1810	A	C8-N9-C4	-6.10	103.36	105.80
26	BB	1893	C	N3-C2-O2	-6.10	117.63	121.90
26	BB	1997	C	N1-C2-O2	-6.10	115.24	118.90
1	AA	348	G	C6-C5-N7	-6.10	126.74	130.40
1	AA	1218	C	C2-N3-C4	-6.10	116.85	119.90
26	BB	555	G	N1-C6-O6	-6.10	116.24	119.90
26	BB	871	U	C4-C5-C6	6.10	123.36	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1064	C	N3-C4-N4	6.10	122.27	118.00
26	BB	1923	U	N3-C4-O4	6.10	123.67	119.40
1	AA	19	A	C5-C6-N6	-6.09	118.82	123.70
1	AA	22	G	N9-C1'-C2'	-6.09	105.30	112.00
1	AA	309	A	N9-C4-C5	-6.09	103.36	105.80
1	AA	434	U	N1-C2-O2	-6.09	118.53	122.80
1	AA	1212	U	N3-C4-O4	6.09	123.67	119.40
26	BB	85	G	N1-C6-O6	6.09	123.56	119.90
26	BB	111	A	C4-C5-C6	-6.09	113.95	117.00
26	BB	522	A	C1'-O4'-C4'	-6.09	105.02	109.90
26	BB	609	A	O4'-C1'-N9	6.09	113.08	108.20
26	BB	748	G	N1-C6-O6	-6.09	116.24	119.90
26	BB	1125	G	N3-C4-N9	-6.09	122.34	126.00
26	BB	1141	U	C2-N3-C4	-6.09	123.34	127.00
26	BB	1396	U	N3-C2-O2	-6.09	117.93	122.20
26	BB	1477	A	C5'-C4'-O4'	6.09	116.41	109.10
26	BB	1617	C	N1-C2-N3	-6.09	114.93	119.20
26	BB	1789	A	C5'-C4'-C3'	-6.09	106.25	116.00
26	BB	1895	C	P-O3'-C3'	6.09	127.01	119.70
26	BB	2417	C	C5-C4-N4	-6.09	115.93	120.20
1	AA	933	G	C3'-C2'-C1'	6.09	106.37	101.50
1	AA	975	A	C6-N1-C2	6.09	122.26	118.60
1	AA	1088	G	N9-C4-C5	6.09	107.84	105.40
26	BB	524	G	C6-C5-N7	-6.09	126.74	130.40
26	BB	1519	G	C8-N9-C4	-6.09	103.96	106.40
26	BB	2551	C	C3'-C2'-C1'	6.09	106.37	101.50
1	AA	521	G	C4-C5-N7	-6.09	108.36	110.80
1	AA	532	A	C4-C5-C6	-6.09	113.95	117.00
1	AA	1259	C	C5-C4-N4	-6.09	115.94	120.20
9	AI	38	ARG	NE-CZ-NH2	6.09	123.34	120.30
26	BB	538	A	C5'-C4'-O4'	6.09	116.41	109.10
26	BB	671	C	N3-C4-C5	6.09	124.34	121.90
26	BB	784	G	N9-C1'-C2'	-6.09	105.30	112.00
26	BB	1204	A	C2-N3-C4	6.09	113.65	110.60
26	BB	1498	C	C5'-C4'-C3'	-6.09	106.25	116.00
26	BB	1501	G	C8-N9-C4	-6.09	103.96	106.40
26	BB	1990	C	N3-C2-O2	-6.09	117.64	121.90
26	BB	2009	A	N9-C1'-C2'	-6.09	105.30	112.00
26	BB	2676	C	C3'-C2'-C1'	-6.09	96.63	101.50
1	AA	668	G	C4-C5-N7	-6.09	108.36	110.80
1	AA	1461	G	N1-C2-N2	-6.09	110.72	116.20
2	AB	30	G	C5-C6-O6	6.09	132.25	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	463	G	N1-C2-N2	6.09	121.68	116.20
26	BB	908	C	N1-C1'-C2'	-6.09	105.30	112.00
26	BB	966	G	C4-C5-C6	6.09	122.45	118.80
26	BB	1106	G	C3'-C2'-C1'	-6.09	96.63	101.50
26	BB	1239	G	C4-C5-N7	-6.09	108.36	110.80
26	BB	1968	G	N1-C6-O6	-6.09	116.25	119.90
26	BB	2410	G	C6-N1-C2	-6.09	121.45	125.10
26	BB	2421	G	N1-C6-O6	6.09	123.55	119.90
1	AA	430	A	C5-N7-C8	-6.09	100.86	103.90
26	BB	1138	G	C8-N9-C4	6.09	108.83	106.40
26	BB	1634	A	C1'-O4'-C4'	-6.09	105.03	109.90
26	BB	2003	A	N9-C4-C5	-6.09	103.36	105.80
41	BQ	93	ASP	CB-CG-OD1	-6.09	112.82	118.30
1	AA	139	A	N9-C4-C5	-6.09	103.36	105.80
1	AA	1048	G	C5'-C4'-C3'	-6.09	106.26	116.00
1	AA	1191	A	C5'-C4'-O4'	6.09	116.41	109.10
1	AA	1396	A	P-O3'-C3'	6.09	127.00	119.70
4	AD	13	C	N1-C2-O2	6.09	122.55	118.90
26	BB	156	A	C4-C5-N7	-6.09	107.66	110.70
26	BB	485	C	C2-N1-C1'	6.09	125.50	118.80
26	BB	1446	C	C2-N1-C1'	-6.09	112.11	118.80
26	BB	1903	G	C1'-O4'-C4'	-6.09	105.03	109.90
26	BB	2263	C	O4'-C1'-N1	6.09	113.07	108.20
26	BB	2571	U	C1'-O4'-C4'	6.09	114.77	109.90
44	BT	33	VAL	CG1-CB-CG2	6.09	120.64	110.90
1	AA	82	G	C8-N9-C1'	6.08	134.91	127.00
1	AA	945	G	C4-C5-N7	6.08	113.23	110.80
1	AA	1292	G	C6-C5-N7	6.08	134.05	130.40
1	AA	1327	C	N3-C2-O2	-6.08	117.64	121.90
26	BB	1476	U	C2-N3-C4	-6.08	123.35	127.00
26	BB	2625	G	C2-N3-C4	6.08	114.94	111.90
26	BB	2630	G	O4'-C1'-N9	6.08	113.07	108.20
26	BB	2716	C	N3-C2-O2	-6.08	117.64	121.90
1	AA	27	G	N3-C2-N2	-6.08	115.64	119.90
25	BA	100	G	C4'-C3'-C2'	-6.08	96.52	102.60
26	BB	340	A	C5-C6-N1	6.08	120.74	117.70
26	BB	468	G	C5-N7-C8	6.08	107.34	104.30
26	BB	1074	G	C4-C5-C6	6.08	122.45	118.80
26	BB	1247	A	O4'-C1'-N9	-6.08	103.33	108.20
26	BB	1340	U	N3-C4-C5	-6.08	110.95	114.60
26	BB	1711	A	N9-C1'-C2'	-6.08	105.31	112.00
26	BB	2058	A	C1'-O4'-C4'	6.08	114.77	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2084	C	C5'-C4'-C3'	-6.08	106.27	116.00
26	BB	2100	G	N7-C8-N9	6.08	116.14	113.10
26	BB	2467	C	C5-C6-N1	-6.08	117.96	121.00
1	AA	118	U	C5-C6-N1	-6.08	119.66	122.70
1	AA	187	G	P-O3'-C3'	6.08	127.00	119.70
1	AA	191	G	C4-C5-N7	6.08	113.23	110.80
1	AA	1080	A	C4-C5-C6	6.08	120.04	117.00
1	AA	1344	C	N3-C2-O2	-6.08	117.64	121.90
25	BA	107	G	O4'-C1'-N9	6.08	113.06	108.20
26	BB	193	U	N3-C2-O2	6.08	126.46	122.20
26	BB	620	G	C6-C5-N7	6.08	134.05	130.40
26	BB	1319	C	N3-C2-O2	-6.08	117.64	121.90
26	BB	1615	C	N3-C4-C5	-6.08	119.47	121.90
26	BB	1776	G	C4-C5-C6	6.08	122.45	118.80
26	BB	1793	C	N1-C1'-C2'	-6.08	105.31	112.00
26	BB	2336	A	C5-N7-C8	6.08	106.94	103.90
26	BB	2791	G	C4'-C3'-C2'	-6.08	96.52	102.60
39	BO	114	ARG	NE-CZ-NH2	6.08	123.34	120.30
1	AA	215	C	N3-C4-N4	6.08	122.26	118.00
26	BB	55	G	C1'-O4'-C4'	-6.08	105.04	109.90
26	BB	1604	C	C1'-O4'-C4'	-6.08	105.04	109.90
26	BB	2758	A	C5-N7-C8	-6.08	100.86	103.90
1	AA	333	U	N3-C4-O4	6.08	123.66	119.40
1	AA	498	A	N1-C6-N6	-6.08	114.95	118.60
1	AA	895	G	C4-C5-C6	6.08	122.45	118.80
1	AA	956	U	O4'-C1'-N1	6.08	113.06	108.20
1	AA	1017	U	N3-C4-C5	6.08	118.25	114.60
1	AA	1500	A	C4'-C3'-C2'	-6.08	96.52	102.60
26	BB	462	C	C5-C4-N4	-6.08	115.94	120.20
26	BB	673	C	N1-C2-O2	6.08	122.55	118.90
26	BB	1246	A	C8-N9-C4	-6.08	103.37	105.80
26	BB	1517	G	C2-N3-C4	6.08	114.94	111.90
26	BB	1672	A	O4'-C4'-C3'	-6.08	97.92	104.00
47	BW	85	ARG	NE-CZ-NH2	-6.08	117.26	120.30
1	AA	73	C	N3-C2-O2	-6.08	117.65	121.90
1	AA	739	C	C5'-C4'-O4'	6.08	116.39	109.10
1	AA	1325	C	C6-N1-C2	-6.08	117.87	120.30
3	AC	40	G	C2-N3-C4	6.08	114.94	111.90
4	AD	45	A	O4'-C1'-N9	6.08	113.06	108.20
7	AG	153	ARG	NE-CZ-NH1	6.08	123.34	120.30
26	BB	359	G	C2-N3-C4	6.08	114.94	111.90
26	BB	400	G	C6-C5-N7	-6.08	126.75	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1416	G	C4'-C3'-C2'	-6.08	96.52	102.60
26	BB	1652	A	P-O3'-C3'	6.08	126.99	119.70
26	BB	2159	G	C4-C5-N7	-6.08	108.37	110.80
26	BB	2875	C	P-O5'-C5'	6.08	130.62	120.90
37	BM	48	PRO	N-CA-CB	6.08	110.59	103.30
1	AA	89	U	C2-N3-C4	-6.08	123.36	127.00
1	AA	144	G	C6-N1-C2	-6.08	121.45	125.10
17	AQ	8	ARG	NE-CZ-NH1	6.08	123.34	120.30
26	BB	1066	U	N3-C4-C5	-6.08	110.95	114.60
26	BB	1422	G	C6-C5-N7	-6.08	126.75	130.40
26	BB	1453	A	C5-C6-N1	-6.08	114.66	117.70
26	BB	1692	U	C5-C4-O4	6.08	129.55	125.90
26	BB	1961	C	N3-C2-O2	6.08	126.15	121.90
26	BB	2470	G	C5-N7-C8	-6.08	101.26	104.30
26	BB	2510	C	C1'-O4'-C4'	6.08	114.76	109.90
26	BB	2692	G	N1-C2-N3	6.08	127.55	123.90
1	AA	1022	A	O4'-C4'-C3'	6.07	110.96	106.10
1	AA	1315	U	N3-C4-O4	6.07	123.65	119.40
4	AD	2	G	N1-C6-O6	6.07	123.55	119.90
7	AG	25	ARG	NE-CZ-NH1	-6.07	117.26	120.30
26	BB	118	A	C5'-C4'-C3'	-6.07	106.28	116.00
26	BB	256	A	C6-C5-N7	6.07	136.55	132.30
26	BB	386	G	C3'-C2'-C1'	6.07	106.36	101.50
26	BB	1351	C	N1-C1'-C2'	-6.07	105.32	112.00
26	BB	1465	G	C1'-O4'-C4'	-6.07	105.04	109.90
26	BB	1756	G	C6-N1-C2	-6.07	121.46	125.10
26	BB	2043	C	C1'-O4'-C4'	6.07	114.76	109.90
26	BB	2327	A	N9-C4-C5	6.07	108.23	105.80
26	BB	2853	C	N3-C4-C5	-6.07	119.47	121.90
1	AA	46	G	N1-C6-O6	-6.07	116.26	119.90
1	AA	610	U	N3-C4-C5	6.07	118.24	114.60
3	AC	25	U	N3-C2-O2	-6.07	117.95	122.20
1	AA	484	G	N9-C4-C5	-6.07	102.97	105.40
1	AA	968	A	N7-C8-N9	6.07	116.84	113.80
1	AA	1270	G	N3-C4-N9	-6.07	122.36	126.00
1	AA	1344	C	O4'-C1'-N1	6.07	113.06	108.20
3	AC	52	U	N3-C2-O2	-6.07	117.95	122.20
25	BA	43	C	N3-C4-N4	6.07	122.25	118.00
26	BB	43	G	N1-C6-O6	-6.07	116.26	119.90
26	BB	74	A	O4'-C1'-N9	-6.07	103.34	108.20
26	BB	232	G	C4-C5-C6	6.07	122.44	118.80
26	BB	514	A	O4'-C4'-C3'	-6.07	97.93	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	606	U	C5'-C4'-O4'	6.07	116.39	109.10
26	BB	1062	G	O4'-C4'-C3'	6.07	110.96	106.10
26	BB	1689	A	N9-C1'-C2'	-6.07	105.32	112.00
26	BB	2893	A	C3'-C2'-C1'	6.07	106.36	101.50
1	AA	362	G	P-O3'-C3'	6.07	126.98	119.70
1	AA	500	G	N9-C4-C5	6.07	107.83	105.40
23	AW	42	ASP	CB-CG-OD2	-6.07	112.84	118.30
25	BA	66	A	P-O3'-C3'	6.07	126.98	119.70
26	BB	283	G	C5-C6-O6	6.07	132.24	128.60
26	BB	813	U	N3-C4-O4	6.07	123.65	119.40
26	BB	930	G	C2-N3-C4	6.07	114.94	111.90
26	BB	1017	G	N9-C1'-C2'	-6.07	105.32	112.00
26	BB	2529	G	C3'-C2'-C1'	6.07	106.36	101.50
26	BB	2813	A	C5-C6-N1	6.07	120.73	117.70
1	AA	32	A	C5'-C4'-O4'	-6.07	101.82	109.10
1	AA	279	A	N7-C8-N9	-6.07	110.77	113.80
1	AA	1026	G	C5-N7-C8	-6.07	101.27	104.30
1	AA	1102	A	N7-C8-N9	-6.07	110.77	113.80
1	AA	1241	G	C3'-C2'-C1'	6.07	106.35	101.50
1	AA	1266	G	C5-N7-C8	6.07	107.33	104.30
1	AA	1442	G	C6-N1-C2	-6.07	121.46	125.10
26	BB	89	A	C5-C6-N1	6.07	120.73	117.70
26	BB	431	U	C4'-C3'-C2'	-6.07	96.53	102.60
26	BB	531	C	C1'-O4'-C4'	-6.07	105.05	109.90
26	BB	1096	A	C8-N9-C4	6.07	108.23	105.80
26	BB	1364	G	N3-C2-N2	-6.07	115.65	119.90
26	BB	1724	G	C4-C5-N7	-6.07	108.37	110.80
26	BB	1807	G	C2-N3-C4	6.07	114.93	111.90
26	BB	2250	G	O4'-C4'-C3'	6.07	110.95	106.10
26	BB	2349	G	C5'-C4'-C3'	-6.07	106.29	116.00
26	BB	2405	G	C5-N7-C8	-6.07	101.27	104.30
26	BB	2455	G	C2-N3-C4	6.07	114.93	111.90
1	AA	179	A	C6-C5-N7	-6.07	128.05	132.30
1	AA	588	G	C5-C6-O6	-6.07	124.96	128.60
1	AA	876	C	C5'-C4'-C3'	-6.07	106.29	116.00
1	AA	1016	A	N3-C4-N9	-6.07	122.55	127.40
1	AA	1234	C	C4-C5-C6	6.07	120.43	117.40
4	AD	4	G	N3-C4-N9	-6.07	122.36	126.00
17	AQ	84	ARG	NE-CZ-NH1	6.07	123.33	120.30
26	BB	597	G	C5'-C4'-O4'	6.07	116.38	109.10
26	BB	806	C	C6-N1-C2	-6.07	117.87	120.30
26	BB	969	G	N7-C8-N9	6.07	116.13	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1173	U	N3-C4-O4	6.07	123.64	119.40
26	BB	1341	G	C6-C5-N7	6.07	134.04	130.40
26	BB	2086	U	O4'-C1'-N1	6.07	113.05	108.20
26	BB	2702	G	C3'-C2'-C1'	6.07	106.35	101.50
26	BB	2747	G	O4'-C1'-N9	6.07	113.05	108.20
26	BB	2803	G	C5-N7-C8	6.07	107.33	104.30
45	BU	65	ASP	CB-CG-OD1	6.07	123.76	118.30
1	AA	304	U	C4-C5-C6	6.06	123.34	119.70
2	AB	2	G	N3-C2-N2	6.06	124.14	119.90
2	AB	35	C	C1'-O4'-C4'	6.06	114.75	109.90
2	AB	45	U	C3'-C2'-C1'	-6.06	96.65	101.50
24	AX	46	ARG	CD-NE-CZ	6.06	132.09	123.60
26	BB	190	A	N9-C1'-C2'	-6.06	105.33	112.00
26	BB	1816	C	O4'-C1'-C2'	-6.06	99.74	105.80
26	BB	2536	G	N3-C4-C5	-6.06	125.57	128.60
26	BB	2741	A	C8-N9-C4	-6.06	103.37	105.80
1	AA	371	A	C8-N9-C4	6.06	108.22	105.80
1	AA	452	A	C3'-C2'-C1'	-6.06	96.65	101.50
1	AA	543	U	C1'-O4'-C4'	-6.06	105.05	109.90
1	AA	649	A	C4-C5-C6	-6.06	113.97	117.00
1	AA	794	A	C6-C5-N7	6.06	136.54	132.30
1	AA	1171	A	C2-N3-C4	6.06	113.63	110.60
26	BB	294	A	N3-C4-C5	-6.06	122.56	126.80
26	BB	645	C	C6-N1-C2	-6.06	117.88	120.30
26	BB	794	A	C6-C5-N7	-6.06	128.06	132.30
26	BB	1047	G	N1-C2-N3	6.06	127.54	123.90
26	BB	1232	G	N3-C4-N9	-6.06	122.36	126.00
26	BB	1538	G	C1'-O4'-C4'	-6.06	105.05	109.90
26	BB	1744	A	C4-C5-N7	-6.06	107.67	110.70
26	BB	1960	A	O4'-C1'-N9	6.06	113.05	108.20
26	BB	2097	A	C6-N1-C2	-6.06	114.96	118.60
26	BB	2383	G	C5'-C4'-C3'	-6.06	106.30	116.00
26	BB	2411	A	N3-C4-N9	6.06	132.25	127.40
26	BB	2646	C	N3-C4-N4	6.06	122.24	118.00
1	AA	374	A	C4'-C3'-C2'	6.06	108.66	102.60
1	AA	1230	C	N1-C1'-C2'	-6.06	105.33	112.00
26	BB	1137	G	N9-C4-C5	6.06	107.82	105.40
26	BB	2364	C	C5-C4-N4	-6.06	115.96	120.20
1	AA	149	A	C5-C6-N6	6.06	128.55	123.70
1	AA	1069	C	C5-C4-N4	-6.06	115.96	120.20
1	AA	1254	A	C5-C6-N6	6.06	128.55	123.70
26	BB	717	C	C4'-C3'-C2'	-6.06	96.54	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1952	A	C4-C5-N7	6.06	113.73	110.70
26	BB	1991	U	C5-C4-O4	-6.06	122.26	125.90
26	BB	2013	A	C4-C5-N7	6.06	113.73	110.70
26	BB	2344	U	C3'-C2'-C1'	6.06	106.35	101.50
26	BB	2471	A	N3-C4-N9	-6.06	122.55	127.40
39	BO	38	ARG	CA-CB-CG	6.06	126.73	113.40
1	AA	282	A	C5-N7-C8	6.06	106.93	103.90
1	AA	1086	U	O4'-C1'-N1	6.06	113.05	108.20
1	AA	1227	A	O4'-C4'-C3'	6.06	110.95	106.10
1	AA	1418	A	N1-C2-N3	-6.06	126.27	129.30
1	AA	1454	G	C6-N1-C2	6.06	128.73	125.10
16	AP	92	ARG	NH1-CZ-NH2	6.06	126.06	119.40
26	BB	171	U	N3-C4-C5	-6.06	110.97	114.60
26	BB	653	U	C5-C4-O4	6.06	129.53	125.90
26	BB	1199	U	N1-C2-O2	6.06	127.04	122.80
26	BB	1673	G	N7-C8-N9	6.06	116.13	113.10
26	BB	2068	U	C6-N1-C2	6.06	124.63	121.00
26	BB	2395	C	C5'-C4'-O4'	6.06	116.37	109.10
26	BB	2477	U	P-O3'-C3'	6.06	126.97	119.70
26	BB	2775	G	C8-N9-C1'	6.06	134.87	127.00
1	AA	843	U	C6-N1-C2	-6.06	117.37	121.00
26	BB	477	A	C3'-C2'-C1'	-6.06	96.66	101.50
26	BB	1386	C	N1-C1'-C2'	-6.06	105.34	112.00
26	BB	1691	C	C6-N1-C2	-6.06	117.88	120.30
26	BB	1926	U	O4'-C1'-N1	6.06	113.05	108.20
26	BB	2194	U	O4'-C1'-N1	6.06	113.05	108.20
1	AA	142	G	N1-C2-N3	-6.05	120.27	123.90
4	AD	34	U	C6-N1-C2	-6.05	117.37	121.00
25	BA	90	C	C5-C4-N4	6.05	124.44	120.20
26	BB	279	A	C4'-C3'-C2'	-6.05	96.55	102.60
26	BB	583	G	C6-N1-C2	-6.05	121.47	125.10
26	BB	1002	G	N1-C6-O6	-6.05	116.27	119.90
26	BB	1437	C	N3-C4-N4	6.05	122.24	118.00
26	BB	1598	A	C4-C5-C6	-6.05	113.97	117.00
26	BB	2127	G	N3-C4-C5	-6.05	125.57	128.60
26	BB	2688	G	N9-C1'-C2'	6.05	121.87	114.00
1	AA	971	G	C8-N9-C4	-6.05	103.98	106.40
1	AA	1065	U	C4'-C3'-C2'	-6.05	96.55	102.60
1	AA	1301	U	C2-N3-C4	-6.05	123.37	127.00
1	AA	1370	G	C5-C6-O6	-6.05	124.97	128.60
26	BB	241	A	C4-C5-N7	6.05	113.73	110.70
26	BB	256	A	C4-C5-C6	-6.05	113.97	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	844	A	O4'-C1'-N9	6.05	113.04	108.20
26	BB	1053	C	N3-C2-O2	-6.05	117.66	121.90
26	BB	1220	G	N3-C2-N2	-6.05	115.66	119.90
26	BB	1526	C	C6-N1-C1'	6.05	128.06	120.80
26	BB	2320	U	N1-C2-O2	6.05	127.04	122.80
32	BH	35	THR	CA-CB-CG2	6.05	120.87	112.40
42	BR	30	TRP	CA-CB-CG	6.05	125.20	113.70
1	AA	297	G	O4'-C1'-N9	6.05	113.04	108.20
1	AA	670	G	C4-N9-C1'	-6.05	118.63	126.50
1	AA	1057	G	C5-C6-N1	-6.05	108.47	111.50
1	AA	1258	G	C5-C6-N1	6.05	114.53	111.50
1	AA	1439	G	C6-C5-N7	-6.05	126.77	130.40
26	BB	443	A	N1-C2-N3	-6.05	126.28	129.30
26	BB	949	G	C2-N3-C4	6.05	114.93	111.90
26	BB	1104	C	O4'-C4'-C3'	6.05	110.94	106.10
26	BB	1389	G	C2-N3-C4	6.05	114.93	111.90
26	BB	1766	G	C6-C5-N7	6.05	134.03	130.40
26	BB	1790	C	N1-C2-O2	6.05	122.53	118.90
26	BB	2171	A	O4'-C1'-C2'	-6.05	99.75	105.80
26	BB	2190	G	C8-N9-C4	-6.05	103.98	106.40
26	BB	2411	A	O4'-C1'-N9	6.05	113.04	108.20
1	AA	23	C	C6-N1-C2	-6.05	117.88	120.30
1	AA	129	A	C5-C6-N6	-6.05	118.86	123.70
2	AB	33	U	N1-C2-N3	6.05	118.53	114.90
4	AD	17	C	O4'-C1'-C2'	-6.05	99.75	105.80
26	BB	742	A	N1-C6-N6	-6.05	114.97	118.60
26	BB	957	C	N3-C2-O2	-6.05	117.67	121.90
26	BB	1404	C	N3-C4-N4	6.05	122.23	118.00
26	BB	1654	A	C5-C6-N1	6.05	120.72	117.70
26	BB	1783	A	N1-C2-N3	-6.05	126.28	129.30
26	BB	1850	G	N3-C4-C5	-6.05	125.58	128.60
26	BB	1924	C	N1-C1'-C2'	-6.05	105.35	112.00
26	BB	2094	A	O4'-C1'-N9	6.05	113.04	108.20
46	BV	40	LYS	O-C-N	-6.05	113.02	122.70
1	AA	376	G	N9-C4-C5	6.05	107.82	105.40
1	AA	1196	A	C5-N7-C8	6.05	106.92	103.90
26	BB	1712	U	N1-C2-O2	-6.05	118.57	122.80
26	BB	1976	U	C5'-C4'-O4'	6.05	116.36	109.10
26	BB	2201	G	N9-C4-C5	6.05	107.82	105.40
1	AA	391	G	C4'-C3'-C2'	-6.05	96.55	102.60
1	AA	597	G	N3-C2-N2	-6.05	115.67	119.90
1	AA	675	A	C3'-C2'-C1'	-6.05	96.66	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	987	G	C4-C5-C6	6.05	122.43	118.80
25	BA	44	G	C2'-C3'-O3'	6.05	123.37	113.70
26	BB	211	C	C4'-C3'-C2'	-6.05	96.55	102.60
26	BB	310	A	C2-N3-C4	-6.05	107.58	110.60
26	BB	1115	G	C5'-C4'-O4'	6.05	116.36	109.10
26	BB	1176	U	N1-C2-N3	6.05	118.53	114.90
26	BB	1512	C	N3-C4-N4	6.05	122.23	118.00
26	BB	1630	A	C8-N9-C4	-6.05	103.38	105.80
26	BB	1811	G	N3-C2-N2	-6.05	115.67	119.90
55	B4	31	GLU	O-C-N	6.05	132.38	122.70
1	AA	1349	A	C6-N1-C2	-6.04	114.97	118.60
26	BB	86	G	C6-N1-C2	-6.04	121.47	125.10
26	BB	505	A	N7-C8-N9	6.04	116.82	113.80
26	BB	606	U	C4-C5-C6	6.04	123.33	119.70
26	BB	1036	G	C3'-C2'-C1'	-6.04	96.66	101.50
26	BB	1761	C	N3-C4-N4	-6.04	113.77	118.00
26	BB	2025	C	C5-C6-N1	6.04	124.02	121.00
26	BB	2426	A	C4-C5-C6	6.04	120.02	117.00
26	BB	2768	U	N1-C2-N3	-6.04	111.27	114.90
1	AA	166	U	C5-C4-O4	-6.04	122.27	125.90
1	AA	202	G	O4'-C1'-N9	6.04	113.03	108.20
1	AA	300	A	C2-N3-C4	6.04	113.62	110.60
1	AA	568	G	C2-N3-C4	6.04	114.92	111.90
1	AA	901	A	N9-C4-C5	6.04	108.22	105.80
1	AA	1016	A	C5-C6-N1	6.04	120.72	117.70
1	AA	1257	A	C8-N9-C4	6.04	108.22	105.80
4	AD	20	G	C6-C5-N7	-6.04	126.77	130.40
8	AH	49	TYR	CB-CG-CD2	-6.04	117.37	121.00
26	BB	465	G	N3-C2-N2	-6.04	115.67	119.90
26	BB	810	U	N3-C4-C5	6.04	118.23	114.60
26	BB	1563	U	C4'-C3'-C2'	-6.04	96.56	102.60
26	BB	1828	G	O4'-C4'-C3'	6.04	110.94	106.10
26	BB	2421	G	C8-N9-C1'	6.04	134.86	127.00
26	BB	2694	G	C8-N9-C1'	6.04	134.86	127.00
26	BB	2847	U	C5-C6-N1	-6.04	119.68	122.70
1	AA	20	U	O4'-C1'-N1	6.04	113.03	108.20
1	AA	399	G	O4'-C1'-C2'	-6.04	99.76	105.80
1	AA	720	C	O4'-C1'-C2'	6.04	113.04	107.60
1	AA	728	A	C6-N1-C2	-6.04	114.97	118.60
1	AA	749	A	C8-N9-C4	-6.04	103.38	105.80
1	AA	1430	A	N1-C6-N6	6.04	122.22	118.60
2	AB	61	C	O5'-C5'-C4'	-6.04	100.22	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	62	U	C5-C4-O4	-6.04	122.28	125.90
4	AD	27	G	C5-N7-C8	6.04	107.32	104.30
26	BB	192	C	C4-C5-C6	6.04	120.42	117.40
26	BB	686	U	C5'-C4'-O4'	6.04	116.35	109.10
26	BB	725	G	C8-N9-C4	-6.04	103.98	106.40
26	BB	836	G	C6-N1-C2	-6.04	121.47	125.10
26	BB	855	G	C6-N1-C2	6.04	128.72	125.10
26	BB	1369	G	C5-N7-C8	-6.04	101.28	104.30
26	BB	1428	C	C1'-O4'-C4'	-6.04	105.07	109.90
26	BB	1607	C	N1-C2-O2	6.04	122.53	118.90
26	BB	1632	A	C3'-C2'-C1'	6.04	106.33	101.50
26	BB	2176	A	C4-C5-N7	6.04	113.72	110.70
26	BB	2277	G	N9-C1'-C2'	-6.04	105.35	112.00
26	BB	2365	G	C6-N1-C2	-6.04	121.47	125.10
26	BB	2565	A	O4'-C1'-N9	6.04	113.03	108.20
26	BB	2787	C	N1-C2-N3	-6.04	114.97	119.20
28	BD	211	ARG	NH1-CZ-NH2	-6.04	112.75	119.40
1	AA	1428	A	N1-C6-N6	-6.04	114.98	118.60
3	AC	28	U	N3-C2-O2	-6.04	117.97	122.20
1	AA	503	C	O4'-C1'-N1	6.04	113.03	108.20
1	AA	705	G	C2-N3-C4	6.04	114.92	111.90
1	AA	988	G	C5-N7-C8	-6.04	101.28	104.30
1	AA	1528	U	N1-C2-O2	-6.04	118.57	122.80
26	BB	242	G	C5-C6-O6	-6.04	124.98	128.60
26	BB	276	U	N1-C2-N3	6.04	118.52	114.90
26	BB	604	G	C5-N7-C8	6.04	107.32	104.30
26	BB	1064	C	C5-C6-N1	6.04	124.02	121.00
26	BB	1549	A	N9-C4-C5	-6.04	103.38	105.80
26	BB	1725	U	C6-N1-C2	-6.04	117.38	121.00
26	BB	1805	A	C8-N9-C4	-6.04	103.39	105.80
26	BB	1901	A	C5'-C4'-O4'	6.04	116.34	109.10
26	BB	2173	A	C5'-C4'-O4'	6.04	116.35	109.10
26	BB	2355	G	C6-N1-C2	-6.04	121.48	125.10
26	BB	2639	A	N9-C4-C5	6.04	108.22	105.80
1	AA	815	A	N1-C6-N6	-6.04	114.98	118.60
2	AB	10	G	C8-N9-C4	-6.04	103.98	106.40
26	BB	52	A	C5'-C4'-O4'	6.04	116.34	109.10
26	BB	1475	G	C1'-O4'-C4'	6.04	114.73	109.90
26	BB	1531	C	N3-C2-O2	-6.04	117.67	121.90
26	BB	2254	C	C5-C6-N1	-6.04	117.98	121.00
26	BB	2352	A	C8-N9-C4	-6.04	103.39	105.80
26	BB	2601	C	P-O3'-C3'	6.04	126.94	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	54	C	C5-C4-N4	6.04	124.42	120.20
1	AA	170	U	C2-N3-C4	-6.04	123.38	127.00
1	AA	207	C	C6-N1-C2	6.04	122.71	120.30
1	AA	666	G	N3-C2-N2	-6.04	115.67	119.90
6	AF	163	ARG	NE-CZ-NH2	6.04	123.32	120.30
7	AG	96	ARG	NE-CZ-NH1	-6.04	117.28	120.30
26	BB	71	A	C4'-C3'-C2'	-6.04	96.56	102.60
26	BB	411	G	O4'-C1'-N9	6.04	113.03	108.20
26	BB	1120	G	N9-C4-C5	-6.04	102.99	105.40
26	BB	1172	C	C6-N1-C2	6.04	122.72	120.30
26	BB	1459	G	C1'-O4'-C4'	-6.04	105.07	109.90
26	BB	1527	G	C5-N7-C8	-6.04	101.28	104.30
26	BB	1600	C	C4-C5-C6	-6.04	114.38	117.40
26	BB	1663	G	O4'-C1'-N9	6.04	113.03	108.20
26	BB	2613	U	C5-C4-O4	-6.04	122.28	125.90
1	AA	552	U	N3-C4-O4	6.03	123.62	119.40
1	AA	900	A	C6-N1-C2	-6.03	114.98	118.60
1	AA	996	A	C2-N3-C4	6.03	113.62	110.60
1	AA	1319	A	O4'-C1'-C2'	6.03	113.03	107.60
2	AB	42	G	N1-C2-N2	-6.03	110.77	116.20
26	BB	217	A	N7-C8-N9	6.03	116.82	113.80
26	BB	422	A	C6-C5-N7	6.03	136.52	132.30
26	BB	465	G	O4'-C4'-C3'	-6.03	97.97	104.00
26	BB	825	A	N9-C1'-C2'	-6.03	105.36	112.00
26	BB	1594	U	O5'-P-OP2	-6.03	100.27	105.70
26	BB	1988	G	C2-N3-C4	6.03	114.92	111.90
26	BB	2411	A	C5-N7-C8	6.03	106.92	103.90
26	BB	2602	A	C5-C6-N6	6.03	128.53	123.70
47	BW	66	VAL	CA-CB-CG2	6.03	119.95	110.90
1	AA	104	G	C5-C6-N1	6.03	114.52	111.50
1	AA	424	G	C5-C6-O6	-6.03	124.98	128.60
1	AA	885	G	N1-C2-N3	6.03	127.52	123.90
1	AA	896	C	N1-C2-O2	6.03	122.52	118.90
1	AA	1503	A	O4'-C4'-C3'	6.03	110.93	106.10
26	BB	827	U	N1-C2-O2	-6.03	118.58	122.80
26	BB	1043	C	C5-C6-N1	-6.03	117.98	121.00
26	BB	1287	A	N7-C8-N9	6.03	116.82	113.80
26	BB	1523	U	C5-C6-N1	-6.03	119.68	122.70
26	BB	2285	C	C5'-C4'-O4'	6.03	116.34	109.10
26	BB	2384	U	C6-N1-C2	-6.03	117.38	121.00
1	AA	315	A	C3'-C2'-C1'	-6.03	96.67	101.50
1	AA	478	A	P-O3'-C3'	6.03	126.94	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	560	A	C3'-C2'-C1'	6.03	106.33	101.50
1	AA	574	A	O4'-C1'-N9	6.03	113.02	108.20
1	AA	1221	G	C3'-C2'-C1'	6.03	106.33	101.50
25	BA	27	C	C5-C4-N4	6.03	124.42	120.20
26	BB	466	A	C4'-C3'-C2'	-6.03	96.57	102.60
26	BB	1029	A	C3'-C2'-C1'	6.03	106.32	101.50
26	BB	1164	C	P-O3'-C3'	6.03	126.94	119.70
26	BB	1438	U	C5'-C4'-C3'	-6.03	106.35	116.00
26	BB	1573	G	O4'-C1'-N9	6.03	113.03	108.20
26	BB	1630	A	C3'-C2'-C1'	-6.03	96.68	101.50
26	BB	2188	U	C3'-C2'-C1'	6.03	106.32	101.50
26	BB	2446	G	N9-C1'-C2'	-6.03	105.37	112.00
30	BF	32	VAL	CA-CB-CG1	6.03	119.95	110.90
34	BJ	122	ILE	CA-CB-CG1	6.03	122.46	111.00
26	BB	180	G	C8-N9-C4	-6.03	103.99	106.40
26	BB	999	U	C5-C6-N1	-6.03	119.69	122.70
26	BB	1241	A	C5'-C4'-C3'	-6.03	106.35	116.00
1	AA	113	G	C3'-C2'-C1'	6.03	106.32	101.50
1	AA	1211	U	N1-C1'-C2'	-6.03	105.37	112.00
1	AA	1281	C	O4'-C1'-N1	6.03	113.02	108.20
1	AA	1503	A	C3'-C2'-C1'	-6.03	96.68	101.50
26	BB	53	A	C4-C5-C6	6.03	120.01	117.00
26	BB	1337	G	N3-C2-N2	-6.03	115.68	119.90
26	BB	1555	G	N3-C4-C5	-6.03	125.59	128.60
26	BB	2044	C	C2-N3-C4	6.03	122.91	119.90
26	BB	2680	U	C2-N3-C4	-6.03	123.38	127.00
1	AA	561	U	N1-C2-N3	6.03	118.52	114.90
1	AA	1464	U	C1'-O4'-C4'	6.03	114.72	109.90
10	AJ	122	GLU	OE1-CD-OE2	6.03	130.53	123.30
13	AM	63	ASP	CB-CG-OD2	-6.03	112.88	118.30
26	BB	94	A	P-O3'-C3'	6.03	126.93	119.70
26	BB	565	C	N3-C4-N4	6.03	122.22	118.00
26	BB	763	G	C1'-O4'-C4'	6.03	114.72	109.90
26	BB	968	C	O4'-C4'-C3'	-6.03	97.97	104.00
26	BB	1474	U	N1-C1'-C2'	-6.03	105.37	112.00
26	BB	2140	G	C1'-O4'-C4'	-6.03	105.08	109.90
1	AA	105	G	C4-C5-N7	-6.02	108.39	110.80
1	AA	840	C	P-O3'-C3'	6.02	126.93	119.70
1	AA	1044	A	O4'-C4'-C3'	-6.02	97.98	104.00
1	AA	1397	C	N1-C1'-C2'	6.02	121.83	114.00
1	AA	1540	U	C1'-O4'-C4'	-6.02	105.08	109.90
26	BB	101	A	C4-C5-N7	6.02	113.71	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	341	C	C2-N3-C4	6.02	122.91	119.90
26	BB	342	A	C2-N3-C4	6.02	113.61	110.60
26	BB	1404	C	C2-N3-C4	-6.02	116.89	119.90
26	BB	2177	C	C6-N1-C2	-6.02	117.89	120.30
1	AA	41	G	N3-C2-N2	6.02	124.12	119.90
1	AA	327	A	C5-C6-N6	-6.02	118.88	123.70
1	AA	441	A	C4-C5-C6	6.02	120.01	117.00
1	AA	756	C	C5'-C4'-C3'	-6.02	106.36	116.00
1	AA	870	U	N1-C2-N3	6.02	118.51	114.90
1	AA	945	G	N3-C4-C5	-6.02	125.59	128.60
3	AC	22	G	N3-C2-N2	6.02	124.11	119.90
12	AL	28	VAL	CG1-CB-CG2	-6.02	101.26	110.90
26	BB	46	G	P-O3'-C3'	6.02	126.93	119.70
26	BB	92	U	C5-C4-O4	6.02	129.51	125.90
26	BB	687	C	O4'-C1'-C2'	6.02	113.02	107.60
26	BB	863	A	C3'-C2'-C1'	6.02	106.32	101.50
26	BB	993	G	N3-C2-N2	-6.02	115.68	119.90
26	BB	1921	G	N3-C2-N2	6.02	124.12	119.90
26	BB	2555	U	C4'-C3'-C2'	6.02	108.62	102.60
26	BB	2675	A	P-O3'-C3'	6.02	126.93	119.70
1	AA	662	U	N3-C4-C5	-6.02	110.99	114.60
26	BB	512	G	C3'-C2'-C1'	-6.02	96.68	101.50
26	BB	737	C	N3-C4-N4	6.02	122.22	118.00
26	BB	1380	G	C4-C5-N7	-6.02	108.39	110.80
26	BB	1451	C	N3-C2-O2	-6.02	117.69	121.90
26	BB	1512	C	N1-C2-O2	6.02	122.51	118.90
26	BB	1798	U	N1-C2-O2	6.02	127.02	122.80
26	BB	1880	U	C2-N3-C4	-6.02	123.39	127.00
26	BB	1919	A	C4'-C3'-C2'	-6.02	96.58	102.60
26	BB	1925	C	C6-N1-C2	6.02	122.71	120.30
26	BB	2594	C	C1'-O4'-C4'	-6.02	105.08	109.90
26	BB	2793	C	P-O5'-C5'	6.02	130.53	120.90
1	AA	143	A	O4'-C1'-N9	6.02	113.02	108.20
1	AA	1161	C	C2-N3-C4	6.02	122.91	119.90
8	AH	156	ARG	NE-CZ-NH1	6.02	123.31	120.30
26	BB	153	U	N3-C2-O2	-6.02	117.99	122.20
26	BB	347	A	C5'-C4'-O4'	6.02	116.32	109.10
26	BB	591	U	N3-C4-C5	6.02	118.21	114.60
26	BB	1005	C	N1-C2-O2	6.02	122.51	118.90
26	BB	1250	G	C5'-C4'-C3'	-6.02	106.37	116.00
26	BB	1442	U	C2-N3-C4	-6.02	123.39	127.00
26	BB	1468	U	C6-N1-C2	6.02	124.61	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1946	U	O4'-C1'-N1	6.02	113.02	108.20
26	BB	2550	G	C2-N3-C4	6.02	114.91	111.90
1	AA	850	U	C2-N3-C4	-6.02	123.39	127.00
1	AA	1345	U	N1-C2-N3	6.02	118.51	114.90
1	AA	1460	C	O4'-C4'-C3'	-6.02	97.98	104.00
4	AD	40	C	C4-C5-C6	-6.02	114.39	117.40
26	BB	886	A	C4'-C3'-O3'	6.02	125.03	113.00
26	BB	972	A	C3'-C2'-C1'	6.02	106.31	101.50
26	BB	1100	C	O4'-C1'-N1	6.02	113.01	108.20
26	BB	1350	C	N3-C2-O2	-6.02	117.69	121.90
26	BB	2529	G	O4'-C1'-N9	-6.02	103.39	108.20
1	AA	336	A	O4'-C1'-N9	6.02	113.01	108.20
14	AN	121	ARG	NE-CZ-NH2	-6.02	117.29	120.30
26	BB	1342	A	C1'-O4'-C4'	6.02	114.71	109.90
26	BB	1845	G	O5'-P-OP2	6.02	117.92	110.70
26	BB	2103	C	C5-C6-N1	-6.02	117.99	121.00
26	BB	2785	C	O4'-C1'-C2'	-6.02	99.78	105.80
1	AA	55	A	C8-N9-C4	-6.01	103.39	105.80
1	AA	1051	C	C4'-C3'-C2'	-6.01	96.58	102.60
25	BA	87	U	N3-C2-O2	-6.01	117.99	122.20
25	BA	96	G	N3-C2-N2	6.01	124.11	119.90
26	BB	15	G	N1-C2-N2	6.01	121.61	116.20
26	BB	441	U	C6-N1-C2	-6.01	117.39	121.00
26	BB	686	U	C1'-O4'-C4'	6.01	114.71	109.90
26	BB	883	G	N1-C2-N3	-6.01	120.29	123.90
26	BB	1155	A	C5-C6-N6	6.01	128.51	123.70
26	BB	1611	C	O4'-C1'-N1	6.01	113.01	108.20
26	BB	2044	C	C6-N1-C2	6.01	122.71	120.30
26	BB	2191	A	C8-N9-C4	-6.01	103.39	105.80
26	BB	2329	U	P-O3'-C3'	6.01	126.92	119.70
26	BB	2641	G	N1-C2-N2	6.01	121.61	116.20
1	AA	1180	A	C1'-O4'-C4'	6.01	114.71	109.90
26	BB	214	G	C4-C5-C6	-6.01	115.19	118.80
26	BB	810	U	C5'-C4'-C3'	-6.01	106.38	116.00
26	BB	1117	C	N1-C2-N3	6.01	123.41	119.20
26	BB	1740	G	C2-N3-C4	6.01	114.91	111.90
26	BB	1754	A	C5-N7-C8	6.01	106.91	103.90
26	BB	1982	U	N1-C1'-C2'	-6.01	105.39	112.00
26	BB	2313	C	O4'-C1'-N1	6.01	113.01	108.20
26	BB	2317	A	N9-C4-C5	-6.01	103.39	105.80
26	BB	2851	A	N1-C6-N6	-6.01	114.99	118.60
1	AA	512	U	C5'-C4'-C3'	-6.01	106.38	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	517	G	C6-N1-C2	-6.01	121.49	125.10
1	AA	690	G	C2-N3-C4	6.01	114.91	111.90
1	AA	807	A	C6-N1-C2	6.01	122.21	118.60
1	AA	1024	G	N3-C4-C5	-6.01	125.59	128.60
1	AA	1118	U	O4'-C1'-N1	6.01	113.01	108.20
17	AQ	75	LYS	N-CA-CB	-6.01	99.78	110.60
26	BB	917	A	N1-C2-N3	-6.01	126.29	129.30
26	BB	1379	U	C5-C6-N1	-6.01	119.69	122.70
26	BB	2158	A	C5-C6-N6	6.01	128.51	123.70
1	AA	281	G	N3-C4-C5	-6.01	125.59	128.60
1	AA	283	U	N3-C4-C5	-6.01	111.00	114.60
1	AA	672	U	C5-C6-N1	-6.01	119.69	122.70
1	AA	770	C	C4'-C3'-C2'	-6.01	96.59	102.60
1	AA	791	G	C5-C6-O6	6.01	132.21	128.60
1	AA	1245	C	N1-C2-O2	6.01	122.50	118.90
1	AA	1290	G	N1-C6-O6	-6.01	116.29	119.90
3	AC	15	G	N1-C6-O6	-6.01	116.30	119.90
26	BB	127	A	C8-N9-C4	-6.01	103.40	105.80
26	BB	669	G	C1'-O4'-C4'	-6.01	105.09	109.90
26	BB	1539	U	C4-C5-C6	6.01	123.31	119.70
26	BB	1570	A	C4-C5-C6	-6.01	114.00	117.00
26	BB	1863	G	C2-N3-C4	6.01	114.90	111.90
26	BB	2489	U	O4'-C1'-N1	6.01	113.01	108.20
51	B0	53	VAL	CG1-CB-CG2	-6.01	101.28	110.90
1	AA	29	U	C4'-C3'-C2'	-6.01	96.59	102.60
1	AA	123	U	N3-C2-O2	-6.01	118.00	122.20
26	BB	1009	A	P-O3'-C3'	6.01	126.91	119.70
26	BB	1823	G	O4'-C1'-N9	6.01	113.01	108.20
1	AA	146	G	N7-C8-N9	6.01	116.10	113.10
1	AA	449	G	C1'-O4'-C4'	-6.01	105.09	109.90
1	AA	1137	C	C2-N3-C4	6.01	122.90	119.90
24	AX	70	TYR	CG-CD2-CE2	-6.01	116.49	121.30
25	BA	39	A	C5-N7-C8	6.01	106.90	103.90
26	BB	1013	C	C4-C5-C6	-6.01	114.40	117.40
26	BB	1392	A	N1-C6-N6	-6.01	115.00	118.60
26	BB	1547	C	N1-C2-O2	6.01	122.50	118.90
26	BB	2282	G	O3'-P-O5'	-6.01	92.59	104.00
26	BB	2418	A	N9-C1'-C2'	-6.01	105.39	112.00
26	BB	2602	A	C6-N1-C2	6.01	122.20	118.60
50	BZ	63	ILE	CA-CB-CG1	6.01	122.41	111.00
1	AA	269	C	C3'-C2'-C1'	-6.00	96.70	101.50
1	AA	969	A	O4'-C1'-N9	6.00	113.00	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1211	U	C4-C5-C6	6.00	123.30	119.70
26	BB	523	C	C5-C4-N4	-6.00	116.00	120.20
26	BB	1000	A	O4'-C4'-C3'	-6.00	98.00	104.00
26	BB	1203	U	C4-C5-C6	6.00	123.30	119.70
26	BB	1735	A	C8-N9-C4	-6.00	103.40	105.80
1	AA	703	G	C8-N9-C1'	6.00	134.80	127.00
1	AA	1191	A	C5-C6-N1	6.00	120.70	117.70
1	AA	1246	A	C3'-C2'-C1'	6.00	106.30	101.50
4	AD	26	C	N3-C4-C5	-6.00	119.50	121.90
25	BA	1	U	C5-C6-N1	-6.00	119.70	122.70
25	BA	37	C	C1'-O4'-C4'	-6.00	105.10	109.90
26	BB	482	A	N3-C4-N9	6.00	132.20	127.40
26	BB	892	A	C5-C6-N1	-6.00	114.70	117.70
26	BB	961	C	C5-C6-N1	-6.00	118.00	121.00
26	BB	1698	A	C6-C5-N7	6.00	136.50	132.30
26	BB	2159	G	C2-N3-C4	6.00	114.90	111.90
26	BB	2542	A	O4'-C4'-C3'	6.00	110.90	106.10
58	B7	36	ARG	NH1-CZ-NH2	-6.00	112.80	119.40
1	AA	39	G	C5-C6-N1	6.00	114.50	111.50
1	AA	566	G	N1-C2-N3	-6.00	120.30	123.90
1	AA	1288	A	N9-C1'-C2'	-6.00	105.40	112.00
2	AB	41	C	C2-N1-C1'	-6.00	112.20	118.80
4	AD	41	C	C2-N3-C4	6.00	122.90	119.90
8	AH	127	TYR	CG-CD2-CE2	-6.00	116.50	121.30
11	AK	107	LYS	C-N-CA	6.00	134.90	122.30
26	BB	274	C	C6-N1-C2	-6.00	117.90	120.30
26	BB	392	U	P-O3'-C3'	6.00	126.90	119.70
26	BB	1008	A	C1'-O4'-C4'	6.00	114.70	109.90
26	BB	1110	G	N3-C2-N2	-6.00	115.70	119.90
26	BB	1748	C	C5-C4-N4	6.00	124.40	120.20
26	BB	1818	U	C2-N1-C1'	6.00	124.90	117.70
26	BB	2549	G	C6-C5-N7	6.00	134.00	130.40
26	BB	2549	G	C6-N1-C2	-6.00	121.50	125.10
1	AA	679	C	N3-C4-C5	-6.00	119.50	121.90
1	AA	1304	G	C4'-C3'-C2'	-6.00	96.60	102.60
1	AA	1416	G	N3-C2-N2	-6.00	115.70	119.90
26	BB	82	U	C5-C4-O4	-6.00	122.30	125.90
26	BB	260	G	N9-C1'-C2'	-6.00	105.40	112.00
26	BB	339	U	C2-N3-C4	-6.00	123.40	127.00
1	AA	827	U	C1'-O4'-C4'	6.00	114.70	109.90
26	BB	282	A	C3'-C2'-C1'	6.00	106.30	101.50
26	BB	327	G	N3-C4-C5	-6.00	125.60	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	633	A	N9-C4-C5	-6.00	103.40	105.80
26	BB	841	G	C5-N7-C8	-6.00	101.30	104.30
26	BB	1020	A	N9-C4-C5	6.00	108.20	105.80
26	BB	1590	A	C4-C5-N7	6.00	113.70	110.70
26	BB	1711	A	O4'-C1'-N9	6.00	113.00	108.20
26	BB	2182	U	N1-C2-N3	6.00	118.50	114.90
26	BB	2480	C	P-O3'-C3'	6.00	126.90	119.70
1	AA	968	A	C4-C5-C6	6.00	120.00	117.00
1	AA	1062	U	N3-C4-C5	6.00	118.20	114.60
26	BB	244	A	C1'-O4'-C4'	-6.00	105.10	109.90
26	BB	299	A	O4'-C1'-N9	6.00	113.00	108.20
26	BB	454	A	C3'-C2'-C1'	6.00	106.30	101.50
26	BB	1145	C	C5-C4-N4	6.00	124.40	120.20
26	BB	1183	U	N1-C2-O2	-6.00	118.60	122.80
26	BB	1435	G	C4-C5-C6	6.00	122.40	118.80
26	BB	1933	G	N7-C8-N9	-6.00	110.10	113.10
26	BB	2127	G	C3'-C2'-C1'	6.00	106.30	101.50
26	BB	2272	U	N1-C1'-C2'	6.00	121.80	114.00
26	BB	2279	G	C8-N9-C4	-6.00	104.00	106.40
1	AA	370	C	C5-C6-N1	6.00	124.00	121.00
1	AA	414	A	O4'-C1'-N9	6.00	113.00	108.20
2	AB	33	U	C1'-O4'-C4'	6.00	114.70	109.90
26	BB	463	G	C2-N3-C4	6.00	114.90	111.90
26	BB	1207	C	N3-C4-C5	-6.00	119.50	121.90
26	BB	2092	U	O4'-C1'-N1	6.00	113.00	108.20
26	BB	2785	C	C5-C6-N1	-6.00	118.00	121.00
1	AA	32	A	N9-C4-C5	5.99	108.20	105.80
1	AA	75	G	N7-C8-N9	5.99	116.10	113.10
1	AA	670	G	C1'-O4'-C4'	5.99	114.69	109.90
1	AA	826	C	P-O5'-C5'	5.99	130.49	120.90
1	AA	942	G	C4'-C3'-C2'	-5.99	96.61	102.60
1	AA	1337	G	O3'-P-O5'	-5.99	92.61	104.00
1	AA	1538	C	N3-C4-C5	-5.99	119.50	121.90
3	AC	59	A	C3'-C2'-C1'	5.99	106.30	101.50
8	AH	24	VAL	CG1-CB-CG2	-5.99	101.31	110.90
26	BB	53	A	N9-C1'-C2'	-5.99	105.41	112.00
26	BB	103	A	C1'-O4'-C4'	5.99	114.70	109.90
26	BB	192	C	N3-C4-N4	5.99	122.20	118.00
26	BB	651	G	N1-C6-O6	-5.99	116.30	119.90
26	BB	785	G	C5-N7-C8	-5.99	101.30	104.30
26	BB	1673	G	O3'-P-O5'	5.99	115.39	104.00
26	BB	1821	A	C6-C5-N7	5.99	136.50	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2582	G	C3'-C2'-C1'	5.99	106.30	101.50
26	BB	2837	A	N9-C4-C5	5.99	108.20	105.80
26	BB	2851	A	N9-C4-C5	-5.99	103.40	105.80
3	AC	24	A	O4'-C1'-N9	-5.99	103.41	108.20
3	AC	57	C	N3-C2-O2	-5.99	117.71	121.90
26	BB	516	C	N1-C1'-C2'	-5.99	105.41	112.00
26	BB	1159	U	C3'-C2'-C1'	5.99	106.29	101.50
1	AA	167	A	C5-C6-N1	-5.99	114.70	117.70
1	AA	584	G	N1-C2-N3	5.99	127.49	123.90
1	AA	585	G	N1-C2-N3	5.99	127.49	123.90
1	AA	650	G	N3-C2-N2	5.99	124.09	119.90
1	AA	775	G	C4'-C3'-C2'	-5.99	96.61	102.60
3	AC	20	G	C1'-O4'-C4'	-5.99	105.11	109.90
4	AD	12	G	C5'-C4'-O4'	5.99	116.29	109.10
26	BB	80	G	N1-C6-O6	5.99	123.49	119.90
26	BB	910	A	C4-C5-N7	-5.99	107.70	110.70
26	BB	968	C	C5'-C4'-O4'	5.99	116.29	109.10
26	BB	1866	A	C4-C5-C6	-5.99	114.00	117.00
26	BB	1936	A	N9-C4-C5	5.99	108.20	105.80
26	BB	2386	A	C6-C5-N7	5.99	136.49	132.30
26	BB	2461	A	N1-C2-N3	-5.99	126.31	129.30
26	BB	2553	G	C5-N7-C8	-5.99	101.30	104.30
26	BB	2879	A	N1-C2-N3	-5.99	126.31	129.30
26	BB	2892	G	O5'-C5'-C4'	-5.99	100.32	111.70
54	B3	29	VAL	CA-CB-CG1	5.99	119.89	110.90
1	AA	649	A	N9-C4-C5	-5.99	103.40	105.80
1	AA	955	U	P-O5'-C5'	5.99	130.48	120.90
1	AA	1115	U	N1-C2-N3	5.99	118.49	114.90
3	AC	44	U	C2-N3-C4	-5.99	123.41	127.00
26	BB	52	A	N9-C1'-C2'	-5.99	105.41	112.00
26	BB	495	G	C1'-O4'-C4'	5.99	114.69	109.90
26	BB	518	G	N9-C4-C5	5.99	107.80	105.40
26	BB	1433	A	C6-C5-N7	-5.99	128.11	132.30
26	BB	1686	C	C5-C6-N1	-5.99	118.01	121.00
26	BB	1794	A	C1'-O4'-C4'	-5.99	105.11	109.90
26	BB	1877	A	C5'-C4'-O4'	5.99	116.29	109.10
26	BB	2405	G	N3-C4-C5	-5.99	125.61	128.60
26	BB	2557	G	O4'-C4'-C3'	5.99	110.89	106.10
26	BB	2856	A	C5-C6-N1	5.99	120.69	117.70
30	BF	31	VAL	CG1-CB-CG2	-5.99	101.32	110.90
54	B3	45	ASP	CB-CG-OD1	-5.99	112.91	118.30
1	AA	931	C	N3-C4-N4	5.99	122.19	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1062	G	P-O5'-C5'	-5.99	111.32	120.90
26	BB	1223	G	O4'-C1'-N9	5.99	112.99	108.20
26	BB	2374	C	O3'-P-O5'	-5.99	92.62	104.00
26	BB	2578	G	C5'-C4'-O4'	5.99	116.28	109.10
1	AA	515	G	N7-C8-N9	5.99	116.09	113.10
1	AA	848	C	N3-C4-N4	5.99	122.19	118.00
1	AA	865	A	C4-C5-N7	-5.99	107.71	110.70
1	AA	1159	U	C4-C5-C6	5.99	123.29	119.70
1	AA	1349	A	C4-C5-N7	5.99	113.69	110.70
3	AC	38	G	O4'-C1'-N9	5.99	112.99	108.20
3	AC	44	U	C6-N1-C1'	-5.99	112.82	121.20
26	BB	185	G	O4'-C4'-C3'	-5.99	98.02	104.00
26	BB	239	C	O4'-C1'-N1	5.99	112.99	108.20
26	BB	1734	G	N1-C6-O6	5.99	123.49	119.90
26	BB	1741	C	N3-C2-O2	-5.99	117.71	121.90
26	BB	1942	C	C5'-C4'-C3'	-5.99	106.42	116.00
26	BB	1981	A	O4'-C1'-N9	5.99	112.99	108.20
26	BB	2169	A	C8-N9-C4	-5.99	103.41	105.80
26	BB	2204	G	C5-C6-N1	-5.99	108.51	111.50
26	BB	2469	A	C5-C6-N1	-5.99	114.71	117.70
1	AA	1444	U	N3-C4-O4	-5.98	115.21	119.40
26	BB	227	A	C6-C5-N7	-5.98	128.11	132.30
26	BB	590	A	N9-C4-C5	5.98	108.19	105.80
26	BB	1317	G	N9-C4-C5	-5.98	103.01	105.40
26	BB	1715	G	N3-C4-C5	-5.98	125.61	128.60
26	BB	2068	U	O4'-C1'-N1	-5.98	103.41	108.20
26	BB	2278	A	C5-C6-N1	5.98	120.69	117.70
26	BB	2643	G	C4-C5-C6	5.98	122.39	118.80
28	BD	68	ARG	NE-CZ-NH2	5.98	123.29	120.30
1	AA	590	U	N1-C1'-C2'	-5.98	105.42	112.00
1	AA	685	G	N1-C6-O6	5.98	123.49	119.90
1	AA	898	G	C5-N7-C8	-5.98	101.31	104.30
1	AA	1279	G	N3-C4-C5	-5.98	125.61	128.60
26	BB	50	U	C4-C5-C6	5.98	123.29	119.70
26	BB	131	A	N7-C8-N9	5.98	116.79	113.80
26	BB	274	C	N3-C4-C5	-5.98	119.51	121.90
26	BB	604	G	C4'-C3'-C2'	-5.98	96.62	102.60
26	BB	1011	G	N1-C2-N2	5.98	121.58	116.20
26	BB	1027	A	C6-N1-C2	-5.98	115.01	118.60
26	BB	1120	G	C6-N1-C2	-5.98	121.51	125.10
26	BB	1435	G	C5-C6-N1	-5.98	108.51	111.50
26	BB	1447	C	C5'-C4'-O4'	5.98	116.28	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1660	G	C3'-C2'-C1'	-5.98	96.72	101.50
26	BB	1794	A	C4-C5-C6	-5.98	114.01	117.00
26	BB	2036	C	P-O3'-C3'	5.98	126.88	119.70
44	BT	68	ARG	NE-CZ-NH1	-5.98	117.31	120.30
1	AA	9	G	C6-N1-C2	5.98	128.69	125.10
1	AA	858	G	C5-N7-C8	5.98	107.29	104.30
1	AA	974	A	C4-C5-C6	-5.98	114.01	117.00
1	AA	1184	G	O4'-C1'-N9	5.98	112.98	108.20
26	BB	122	G	C4-C5-N7	-5.98	108.41	110.80
26	BB	145	C	C6-N1-C2	-5.98	117.91	120.30
26	BB	324	A	C2-N3-C4	5.98	113.59	110.60
26	BB	1759	A	C2'-C3'-O3'	5.98	123.27	113.70
26	BB	2047	C	N1-C2-O2	5.98	122.49	118.90
26	BB	2710	C	C4-C5-C6	-5.98	114.41	117.40
30	BF	88	ARG	NE-CZ-NH1	5.98	123.29	120.30
47	BW	66	VAL	CG1-CB-CG2	-5.98	101.33	110.90
1	AA	1082	A	C5-C6-N6	-5.98	118.92	123.70
26	BB	1274	A	C5'-C4'-O4'	5.98	116.28	109.10
26	BB	1889	A	N7-C8-N9	5.98	116.79	113.80
26	BB	2804	U	O4'-C1'-N1	5.98	112.98	108.20
1	AA	49	U	C6-N1-C2	-5.98	117.41	121.00
1	AA	305	G	N3-C2-N2	-5.98	115.72	119.90
4	AD	11	A	C5-C6-N6	-5.98	118.92	123.70
4	AD	45	A	N3-C4-N9	5.98	132.18	127.40
26	BB	232	G	C2-N3-C4	5.98	114.89	111.90
26	BB	561	G	C6-C5-N7	-5.98	126.81	130.40
26	BB	1849	G	C5-C6-N1	-5.98	108.51	111.50
26	BB	2186	G	O4'-C1'-N9	5.98	112.98	108.20
26	BB	2341	G	N7-C8-N9	-5.98	110.11	113.10
26	BB	2362	C	C6-N1-C2	-5.98	117.91	120.30
26	BB	2877	G	N1-C2-N2	5.98	121.58	116.20
1	AA	878	A	C2-N3-C4	5.98	113.59	110.60
1	AA	1097	C	O4'-C1'-N1	5.98	112.98	108.20
26	BB	90	U	C4'-C3'-C2'	-5.98	96.62	102.60
26	BB	636	G	N1-C6-O6	-5.98	116.31	119.90
26	BB	1514	G	O4'-C1'-N9	5.98	112.98	108.20
26	BB	2729	G	N7-C8-N9	5.98	116.09	113.10
1	AA	578	C	C2-N3-C4	5.97	122.89	119.90
1	AA	900	A	C4'-C3'-C2'	-5.97	96.63	102.60
26	BB	265	A	C2'-C3'-O3'	5.97	123.26	113.70
26	BB	430	A	P-O3'-C3'	5.97	126.87	119.70
26	BB	441	U	N3-C4-O4	5.97	123.58	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1807	G	N9-C1'-C2'	-5.97	105.43	112.00
26	BB	2227	A	O4'-C1'-N9	5.97	112.98	108.20
26	BB	2437	G	C4'-C3'-C2'	-5.97	96.62	102.60
26	BB	2574	G	N3-C2-N2	-5.97	115.72	119.90
26	BB	2807	U	C4'-C3'-C2'	-5.97	96.62	102.60
1	AA	847	G	N1-C6-O6	5.97	123.48	119.90
1	AA	928	G	C3'-C2'-C1'	5.97	106.28	101.50
1	AA	1168	U	N3-C2-O2	-5.97	118.02	122.20
16	AP	67	ASP	CB-CG-OD2	-5.97	112.92	118.30
26	BB	208	C	O4'-C1'-N1	5.97	112.98	108.20
26	BB	1212	G	C4-C5-N7	5.97	113.19	110.80
26	BB	1316	U	C5-C4-O4	-5.97	122.32	125.90
26	BB	1360	G	C6-N1-C2	-5.97	121.52	125.10
26	BB	1472	C	O4'-C1'-N1	5.97	112.98	108.20
26	BB	1669	A	N1-C6-N6	5.97	122.18	118.60
26	BB	1843	C	N3-C2-O2	5.97	126.08	121.90
26	BB	2467	C	N3-C4-N4	-5.97	113.82	118.00
26	BB	2478	A	O4'-C1'-N9	5.97	112.98	108.20
50	BZ	71	ARG	NE-CZ-NH2	-5.97	117.31	120.30
15	AO	41	PRO	N-CD-CG	5.97	112.16	103.20
15	AO	123	ALA	CB-CA-C	5.97	119.06	110.10
26	BB	2368	C	C5-C4-N4	-5.97	116.02	120.20
1	AA	472	U	N1-C1'-C2'	5.97	121.76	114.00
1	AA	556	C	N1-C2-O2	5.97	122.48	118.90
1	AA	708	C	C5-C4-N4	-5.97	116.02	120.20
1	AA	1018	G	C5'-C4'-O4'	5.97	116.26	109.10
1	AA	1413	A	C5-N7-C8	-5.97	100.92	103.90
1	AA	1436	U	C5-C4-O4	-5.97	122.32	125.90
2	AB	39	A	C5-C6-N1	5.97	120.69	117.70
3	AC	39	U	C5-C6-N1	-5.97	119.72	122.70
4	AD	36	A	N1-C2-N3	5.97	132.28	129.30
26	BB	60	G	N7-C8-N9	5.97	116.08	113.10
26	BB	191	A	N1-C2-N3	-5.97	126.32	129.30
26	BB	297	G	C2-N3-C4	5.97	114.89	111.90
26	BB	957	C	C4-C5-C6	5.97	120.39	117.40
26	BB	1233	C	N3-C4-C5	5.97	124.29	121.90
26	BB	1532	A	C5'-C4'-O4'	5.97	116.26	109.10
26	BB	2188	U	C2-N3-C4	-5.97	123.42	127.00
26	BB	2464	G	N3-C4-N9	5.97	129.58	126.00
26	BB	2538	C	N3-C4-C5	-5.97	119.51	121.90
26	BB	2875	C	C1'-O4'-C4'	-5.97	105.12	109.90
26	BB	2888	C	N1-C2-O2	5.97	122.48	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	327	A	C1'-O4'-C4'	-5.97	105.12	109.90
1	AA	1281	C	C6-N1-C2	5.97	122.69	120.30
26	BB	110	G	C5-N7-C8	-5.97	101.32	104.30
26	BB	331	C	C4-C5-C6	-5.97	114.42	117.40
26	BB	1147	A	N9-C4-C5	5.97	108.19	105.80
26	BB	1624	U	C1'-O4'-C4'	-5.97	105.13	109.90
26	BB	2177	C	C4-C5-C6	-5.97	114.42	117.40
26	BB	2543	G	N1-C6-O6	-5.97	116.32	119.90
1	AA	416	G	C4-C5-C6	5.97	122.38	118.80
1	AA	786	G	N7-C8-N9	5.97	116.08	113.10
1	AA	920	U	C2-N3-C4	-5.97	123.42	127.00
1	AA	1081	A	C5-N7-C8	-5.97	100.92	103.90
1	AA	1139	G	C3'-C2'-C1'	5.97	106.27	101.50
1	AA	1300	G	N3-C2-N2	5.97	124.08	119.90
1	AA	1531	A	C5-C6-N6	-5.97	118.93	123.70
4	AD	65	G	C5-C6-N1	5.97	114.48	111.50
25	BA	85	G	C8-N9-C4	-5.97	104.01	106.40
26	BB	217	A	C8-N9-C4	-5.97	103.41	105.80
26	BB	259	G	N9-C1'-C2'	-5.97	105.44	112.00
26	BB	556	A	C4'-C3'-C2'	-5.97	96.63	102.60
26	BB	1133	A	O4'-C4'-C3'	-5.97	98.03	104.00
26	BB	1171	G	N3-C2-N2	-5.97	115.72	119.90
26	BB	1186	G	C4-C5-C6	5.97	122.38	118.80
26	BB	1206	G	N7-C8-N9	5.97	116.08	113.10
26	BB	1265	A	P-O3'-C3'	5.97	126.86	119.70
26	BB	1841	U	C4'-C3'-C2'	-5.97	96.63	102.60
26	BB	2225	A	N1-C6-N6	-5.97	115.02	118.60
26	BB	2235	G	C5-N7-C8	5.97	107.28	104.30
26	BB	2424	C	O3'-P-O5'	-5.97	92.67	104.00
26	BB	2640	G	C8-N9-C4	-5.97	104.01	106.40
1	AA	99	C	C3'-C2'-C1'	5.96	106.27	101.50
1	AA	348	G	C3'-C2'-C1'	-5.96	96.73	101.50
1	AA	661	G	C4-C5-C6	5.96	122.38	118.80
1	AA	1075	U	C5'-C4'-O4'	5.96	116.26	109.10
1	AA	1258	G	C2-N3-C4	5.96	114.88	111.90
11	AK	116	ARG	NE-CZ-NH2	-5.96	117.32	120.30
25	BA	105	G	N7-C8-N9	-5.96	110.12	113.10
26	BB	166	U	C5'-C4'-O4'	5.96	116.26	109.10
26	BB	231	A	C8-N9-C4	-5.96	103.42	105.80
26	BB	641	U	C5'-C4'-O4'	5.96	116.26	109.10
26	BB	797	G	C2-N3-C4	5.96	114.88	111.90
26	BB	823	C	C5'-C4'-O4'	5.96	116.26	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1421	G	C3'-C2'-C1'	5.96	106.27	101.50
26	BB	1541	C	C6-N1-C2	5.96	122.69	120.30
26	BB	1845	G	C5-C6-N1	5.96	114.48	111.50
26	BB	2440	C	C2'-C3'-O3'	5.96	123.24	113.70
26	BB	2586	U	C2-N3-C4	-5.96	123.42	127.00
1	AA	974	A	C5'-C4'-O4'	5.96	116.26	109.10
26	BB	1322	A	N9-C4-C5	-5.96	103.42	105.80
26	BB	2433	A	C2-N3-C4	-5.96	107.62	110.60
1	AA	280	C	C6-N1-C2	-5.96	117.92	120.30
1	AA	563	A	C8-N9-C4	-5.96	103.42	105.80
1	AA	710	G	N3-C4-C5	-5.96	125.62	128.60
1	AA	773	G	N1-C2-N2	5.96	121.56	116.20
1	AA	845	A	N9-C4-C5	5.96	108.19	105.80
26	BB	34	U	C2-N3-C4	5.96	130.58	127.00
26	BB	96	C	C5-C4-N4	5.96	124.37	120.20
26	BB	317	G	C4'-C3'-C2'	-5.96	96.64	102.60
26	BB	670	A	C5-N7-C8	-5.96	100.92	103.90
26	BB	708	G	N1-C2-N3	-5.96	120.32	123.90
26	BB	944	C	N3-C2-O2	-5.96	117.73	121.90
26	BB	1060	U	C5-C4-O4	-5.96	122.32	125.90
26	BB	1169	A	C5'-C4'-O4'	-5.96	101.95	109.10
26	BB	1179	G	O4'-C4'-C3'	-5.96	98.04	104.00
26	BB	1472	C	C5'-C4'-O4'	-5.96	101.95	109.10
26	BB	2896	C	C6-N1-C2	5.96	122.68	120.30
28	BD	130	PRO	N-CA-CB	5.96	110.45	103.30
1	AA	1532	U	N3-C4-O4	5.96	123.57	119.40
26	BB	488	G	N7-C8-N9	5.96	116.08	113.10
26	BB	864	G	C5'-C4'-O4'	5.96	116.25	109.10
26	BB	1254	A	N1-C2-N3	-5.96	126.32	129.30
26	BB	1706	C	P-O3'-C3'	5.96	126.85	119.70
26	BB	2212	A	N9-C1'-C2'	5.96	121.75	114.00
26	BB	2237	G	N9-C4-C5	5.96	107.78	105.40
1	AA	583	A	N9-C4-C5	5.96	108.18	105.80
1	AA	666	G	C1'-O4'-C4'	-5.96	105.13	109.90
1	AA	670	G	C5'-C4'-O4'	5.96	116.25	109.10
1	AA	690	G	N1-C2-N3	-5.96	120.33	123.90
1	AA	716	A	O4'-C1'-N9	5.96	112.97	108.20
1	AA	841	C	C5'-C4'-O4'	5.96	116.25	109.10
26	BB	6	A	C5-N7-C8	5.96	106.88	103.90
26	BB	366	C	N1-C2-O2	5.96	122.48	118.90
26	BB	487	C	N3-C4-C5	-5.96	119.52	121.90
26	BB	727	A	O4'-C1'-N9	5.96	112.97	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1598	A	C6-C5-N7	5.96	136.47	132.30
26	BB	1741	C	N3-C4-N4	5.96	122.17	118.00
26	BB	1746	A	P-O3'-C3'	5.96	126.85	119.70
26	BB	2064	C	C5-C6-N1	-5.96	118.02	121.00
26	BB	2176	A	C5-N7-C8	-5.96	100.92	103.90
26	BB	2551	C	O4'-C4'-C3'	5.96	110.87	106.10
26	BB	2658	C	O4'-C1'-N1	5.96	112.97	108.20
28	BD	136	VAL	CG1-CB-CG2	-5.96	101.37	110.90
52	B1	1	ALA	CB-CA-C	5.96	119.04	110.10
1	AA	633	G	C5-C6-O6	-5.96	125.03	128.60
1	AA	748	G	C8-N9-C4	5.96	108.78	106.40
1	AA	816	A	O5'-P-OP1	-5.96	100.34	105.70
1	AA	835	U	O4'-C1'-N1	5.96	112.97	108.20
1	AA	854	U	P-O3'-C3'	5.96	126.85	119.70
1	AA	924	C	N1-C2-N3	-5.96	115.03	119.20
1	AA	993	G	N3-C4-N9	5.96	129.57	126.00
1	AA	1156	G	N3-C4-N9	5.96	129.57	126.00
1	AA	1488	G	C6-N1-C2	-5.96	121.53	125.10
2	AB	10	G	C4'-C3'-C2'	5.96	108.56	102.60
19	AS	31	ARG	CD-NE-CZ	5.96	131.94	123.60
26	BB	94	A	C4-C5-C6	5.96	119.98	117.00
26	BB	378	C	N1-C2-O2	5.96	122.47	118.90
26	BB	404	A	O4'-C1'-C2'	5.96	112.96	107.60
26	BB	793	A	C5'-C4'-C3'	-5.96	106.47	116.00
26	BB	1190	G	O4'-C1'-N9	5.96	112.96	108.20
26	BB	1669	A	C4'-C3'-C2'	-5.96	96.64	102.60
26	BB	1906	G	N1-C6-O6	-5.96	116.33	119.90
26	BB	2501	C	C4-C5-C6	5.96	120.38	117.40
26	BB	2875	C	O4'-C1'-C2'	5.96	112.96	107.60
29	BE	40	LEU	CB-CG-CD1	5.96	121.12	111.00
34	BJ	158	ARG	NE-CZ-NH1	5.96	123.28	120.30
1	AA	129	A	N1-C2-N3	5.96	132.28	129.30
4	AD	54	G	C4'-C3'-C2'	-5.96	96.64	102.60
7	AG	71	PHE	CG-CD2-CE2	-5.96	114.25	120.80
26	BB	554	U	N1-C2-N3	5.96	118.47	114.90
26	BB	1184	U	C5-C6-N1	-5.96	119.72	122.70
26	BB	2140	G	N9-C4-C5	-5.96	103.02	105.40
26	BB	2418	A	C5-C6-N1	5.96	120.68	117.70
26	BB	2437	G	C4-C5-C6	5.96	122.37	118.80
1	AA	507	C	C3'-C2'-C1'	5.95	106.26	101.50
1	AA	1210	C	C4-C5-C6	-5.95	114.42	117.40
1	AA	1270	G	C6-N1-C2	-5.95	121.53	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1493	A	N3-C4-N9	5.95	132.16	127.40
1	AA	1533	C	C5'-C4'-O4'	5.95	116.24	109.10
26	BB	113	U	O4'-C4'-C3'	-5.95	98.05	104.00
26	BB	651	G	N3-C2-N2	-5.95	115.73	119.90
26	BB	951	C	C2-N3-C4	-5.95	116.92	119.90
26	BB	1166	G	C8-N9-C4	5.95	108.78	106.40
26	BB	1353	A	N3-C4-C5	-5.95	122.63	126.80
26	BB	1611	C	N1-C1'-C2'	-5.95	105.45	112.00
26	BB	1867	G	N3-C4-N9	-5.95	122.43	126.00
26	BB	1935	G	N3-C2-N2	5.95	124.07	119.90
26	BB	2118	U	C4'-C3'-C2'	5.95	108.55	102.60
1	AA	84	U	N1-C2-O2	5.95	126.97	122.80
1	AA	367	U	N1-C2-N3	5.95	118.47	114.90
26	BB	207	A	N3-C4-N9	5.95	132.16	127.40
26	BB	1550	C	N1-C2-O2	5.95	122.47	118.90
1	AA	92	U	N3-C4-O4	5.95	123.57	119.40
1	AA	887	G	C1'-O4'-C4'	-5.95	105.14	109.90
1	AA	949	A	C5-N7-C8	5.95	106.88	103.90
1	AA	1179	A	N9-C4-C5	5.95	108.18	105.80
1	AA	1385	G	N1-C6-O6	-5.95	116.33	119.90
26	BB	282	A	N7-C8-N9	5.95	116.78	113.80
26	BB	827	U	C5-C4-O4	-5.95	122.33	125.90
26	BB	1054	A	N9-C1'-C2'	-5.95	105.45	112.00
26	BB	1094	U	O4'-C1'-N1	5.95	112.96	108.20
26	BB	1614	A	N1-C2-N3	5.95	132.28	129.30
26	BB	2003	A	C4'-C3'-C2'	-5.95	96.65	102.60
26	BB	2236	U	O4'-C1'-N1	5.95	112.96	108.20
26	BB	2315	G	C8-N9-C4	5.95	108.78	106.40
26	BB	2317	A	C4-C5-N7	5.95	113.67	110.70
26	BB	2454	G	C5-N7-C8	-5.95	101.33	104.30
26	BB	2598	A	N1-C2-N3	5.95	132.28	129.30
26	BB	2652	C	OP1-P-O3'	5.95	118.29	105.20
26	BB	2664	G	C4'-C3'-C2'	-5.95	96.65	102.60
1	AA	433	G	C5'-C4'-O4'	5.95	116.24	109.10
1	AA	520	A	C6-C5-N7	5.95	136.46	132.30
1	AA	1373	G	N3-C4-N9	-5.95	122.43	126.00
3	AC	58	C	C4-C5-C6	-5.95	114.43	117.40
26	BB	529	A	N9-C4-C5	5.95	108.18	105.80
26	BB	1295	C	N3-C4-N4	5.95	122.16	118.00
26	BB	1731	G	N3-C2-N2	5.95	124.06	119.90
26	BB	1758	U	C5'-C4'-O4'	-5.95	101.96	109.10
26	BB	1967	C	C5'-C4'-O4'	5.95	116.24	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2153	C	O3'-P-O5'	5.95	115.30	104.00
26	BB	2421	G	C5'-C4'-C3'	-5.95	106.48	116.00
26	BB	2755	C	C6-N1-C2	-5.95	117.92	120.30
26	BB	2900	A	C5-C6-N1	5.95	120.67	117.70
1	AA	1345	U	C2-N3-C4	-5.95	123.43	127.00
2	AB	65	C	O5'-C5'-C4'	5.95	123.00	111.70
26	BB	533	G	C5-C6-O6	5.95	132.17	128.60
26	BB	647	G	C4-C5-N7	-5.95	108.42	110.80
26	BB	659	G	N1-C2-N3	-5.95	120.33	123.90
26	BB	665	U	N3-C4-O4	5.95	123.56	119.40
26	BB	962	G	C8-N9-C4	-5.95	104.02	106.40
26	BB	1121	C	N3-C4-N4	5.95	122.16	118.00
26	BB	1319	C	C5'-C4'-C3'	-5.95	106.48	116.00
26	BB	2204	G	N3-C2-N2	5.95	124.06	119.90
26	BB	2584	U	C2-N3-C4	-5.95	123.43	127.00
1	AA	182	A	C8-N9-C4	5.95	108.18	105.80
1	AA	250	A	O4'-C1'-N9	5.95	112.96	108.20
1	AA	976	G	O4'-C1'-N9	5.95	112.96	108.20
1	AA	1028	C	C5-C4-N4	-5.95	116.04	120.20
26	BB	37	C	C2-N3-C4	5.95	122.87	119.90
26	BB	377	G	N3-C2-N2	5.95	124.06	119.90
26	BB	762	U	C5-C6-N1	-5.95	119.73	122.70
26	BB	815	C	O4'-C4'-C3'	5.95	110.86	106.10
26	BB	1007	C	N1-C2-O2	5.95	122.47	118.90
26	BB	1176	U	C5-C4-O4	5.95	129.47	125.90
26	BB	1469	A	C4'-C3'-C2'	-5.95	96.65	102.60
26	BB	1763	G	C4-C5-C6	5.95	122.37	118.80
26	BB	1927	A	C2'-C3'-O3'	5.95	123.21	113.70
26	BB	2509	G	C5-C6-N1	5.95	114.47	111.50
26	BB	2881	U	C2-N3-C4	-5.95	123.43	127.00
1	AA	286	C	O4'-C1'-C2'	5.94	112.95	107.60
1	AA	705	G	N9-C4-C5	5.94	107.78	105.40
1	AA	785	G	C5-C6-N1	5.94	114.47	111.50
1	AA	1475	G	C4'-C3'-C2'	-5.94	96.66	102.60
26	BB	570	G	C5'-C4'-C3'	-5.94	106.49	116.00
26	BB	1925	C	C5'-C4'-O4'	5.94	116.23	109.10
1	AA	343	U	C3'-C2'-C1'	5.94	106.25	101.50
1	AA	829	G	N1-C2-N3	-5.94	120.33	123.90
1	AA	1034	G	C5-C6-O6	5.94	132.16	128.60
1	AA	1244	G	C6-N1-C2	-5.94	121.53	125.10
1	AA	1341	U	N3-C4-O4	5.94	123.56	119.40
26	BB	67	U	C4'-C3'-C2'	-5.94	96.66	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	700	G	C4'-C3'-C2'	-5.94	96.66	102.60
26	BB	1029	A	N1-C2-N3	-5.94	126.33	129.30
26	BB	1189	A	C8-N9-C4	5.94	108.18	105.80
26	BB	1494	A	C5-N7-C8	5.94	106.87	103.90
26	BB	1651	G	P-O3'-C3'	5.94	126.83	119.70
26	BB	1988	G	N9-C1'-C2'	-5.94	105.46	112.00
26	BB	2222	C	N3-C4-N4	5.94	122.16	118.00
26	BB	2856	A	N7-C8-N9	5.94	116.77	113.80
1	AA	212	G	N9-C4-C5	5.94	107.78	105.40
1	AA	320	A	C5'-C4'-O4'	5.94	116.23	109.10
1	AA	524	G	C8-N9-C4	-5.94	104.02	106.40
1	AA	812	G	C8-N9-C4	-5.94	104.02	106.40
1	AA	1027	C	C5-C6-N1	5.94	123.97	121.00
1	AA	1384	C	C5-C6-N1	5.94	123.97	121.00
1	AA	1473	G	N9-C4-C5	5.94	107.78	105.40
5	AE	153	MET	CA-CB-CG	-5.94	103.20	113.30
26	BB	316	C	C4'-C3'-C2'	-5.94	96.66	102.60
26	BB	461	C	O4'-C1'-N1	5.94	112.95	108.20
26	BB	814	C	N3-C4-N4	5.94	122.16	118.00
26	BB	1460	U	N3-C2-O2	-5.94	118.04	122.20
26	BB	1942	C	P-O3'-C3'	5.94	126.83	119.70
26	BB	2077	A	C5-C6-N6	-5.94	118.95	123.70
26	BB	2335	A	C5-C6-N1	5.94	120.67	117.70
26	BB	2630	G	C6-C5-N7	-5.94	126.83	130.40
26	BB	2816	G	N9-C4-C5	5.94	107.78	105.40
1	AA	1003	G	C6-C5-N7	5.94	133.96	130.40
25	BA	87	U	C5-C6-N1	-5.94	119.73	122.70
26	BB	207	A	C6-N1-C2	-5.94	115.04	118.60
26	BB	429	A	C5-N7-C8	-5.94	100.93	103.90
26	BB	1524	G	N3-C4-C5	-5.94	125.63	128.60
1	AA	498	A	C1'-O4'-C4'	-5.94	105.15	109.90
26	BB	136	G	C2-N3-C4	5.94	114.87	111.90
26	BB	195	A	N3-C4-N9	5.94	132.15	127.40
26	BB	253	C	N1-C1'-C2'	-5.94	105.47	112.00
26	BB	424	G	O4'-C1'-N9	5.94	112.95	108.20
26	BB	696	G	C5-N7-C8	-5.94	101.33	104.30
26	BB	962	G	C4'-C3'-C2'	5.94	108.54	102.60
26	BB	978	G	C6-N1-C2	-5.94	121.54	125.10
26	BB	1405	U	C4-C5-C6	-5.94	116.14	119.70
26	BB	1906	G	N3-C4-C5	-5.94	125.63	128.60
26	BB	2027	G	C5-C6-N1	-5.94	108.53	111.50
26	BB	2482	A	C2'-C3'-O3'	5.94	123.20	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2637	U	N3-C4-O4	-5.94	115.24	119.40
26	BB	2640	G	N3-C2-N2	-5.94	115.74	119.90
1	AA	75	G	C6-C5-N7	-5.94	126.84	130.40
1	AA	993	G	C6-C5-N7	-5.94	126.84	130.40
1	AA	1223	C	C4-C5-C6	5.94	120.37	117.40
26	BB	2287	A	N1-C6-N6	-5.94	115.04	118.60
26	BB	2522	U	C6-N1-C2	-5.94	117.44	121.00
26	BB	2811	G	O4'-C1'-C2'	-5.94	99.86	105.80
1	AA	429	U	C4'-C3'-C2'	-5.93	96.67	102.60
1	AA	717	U	N1-C1'-C2'	5.93	121.72	114.00
1	AA	720	C	C4-C5-C6	5.93	120.37	117.40
1	AA	952	U	N3-C4-C5	-5.93	111.04	114.60
1	AA	1443	C	O4'-C1'-N1	5.93	112.95	108.20
1	AA	1476	A	N9-C4-C5	5.93	108.17	105.80
26	BB	1021	A	N1-C2-N3	-5.93	126.33	129.30
26	BB	1403	A	C6-C5-N7	5.93	136.46	132.30
26	BB	1881	C	C4-C5-C6	5.93	120.37	117.40
26	BB	2874	C	C6-N1-C2	-5.93	117.93	120.30
1	AA	43	C	C5-C4-N4	-5.93	116.05	120.20
1	AA	76	G	C1'-O4'-C4'	-5.93	105.16	109.90
1	AA	88	U	N1-C2-N3	5.93	118.46	114.90
1	AA	378	G	C5-C6-N1	5.93	114.47	111.50
1	AA	1492	A	C5'-C4'-O4'	5.93	116.22	109.10
8	AH	9	GLU	OE1-CD-OE2	5.93	130.42	123.30
13	AM	57	VAL	CA-CB-CG1	5.93	119.80	110.90
17	AQ	76	PHE	CG-CD2-CE2	-5.93	114.28	120.80
26	BB	311	A	O4'-C1'-N9	5.93	112.95	108.20
26	BB	347	A	N1-C6-N6	5.93	122.16	118.60
26	BB	461	C	N1-C2-O2	5.93	122.46	118.90
26	BB	494	G	N3-C4-N9	5.93	129.56	126.00
26	BB	570	G	C5-C6-N1	-5.93	108.53	111.50
26	BB	944	C	C5'-C4'-O4'	5.93	116.22	109.10
26	BB	1333	G	N1-C2-N2	5.93	121.54	116.20
26	BB	1533	C	C3'-C2'-C1'	5.93	106.25	101.50
26	BB	2057	G	C6-C5-N7	-5.93	126.84	130.40
26	BB	2677	G	C2-N3-C4	5.93	114.87	111.90
28	BD	219	VAL	CA-CB-CG2	5.93	119.80	110.90
1	AA	6	G	N9-C1'-C2'	-5.93	105.48	112.00
1	AA	336	A	C5'-C4'-O4'	5.93	116.22	109.10
1	AA	614	C	N3-C4-N4	5.93	122.15	118.00
26	BB	583	G	N1-C2-N2	5.93	121.54	116.20
26	BB	1364	G	C6-N1-C2	-5.93	121.54	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2148	G	C5-N7-C8	-5.93	101.33	104.30
29	BE	39	ASP	CB-CG-OD2	-5.93	112.96	118.30
33	BI	97	ARG	NE-CZ-NH2	5.93	123.27	120.30
1	AA	330	C	C6-N1-C2	5.93	122.67	120.30
1	AA	497	G	C5-C6-N1	5.93	114.46	111.50
1	AA	838	G	C5-C6-O6	-5.93	125.04	128.60
1	AA	840	C	N3-C4-C5	-5.93	119.53	121.90
2	AB	18	G	C5'-C4'-O4'	5.93	116.22	109.10
26	BB	307	G	N3-C4-C5	-5.93	125.64	128.60
26	BB	740	C	N3-C4-N4	-5.93	113.85	118.00
26	BB	1765	U	N1-C2-O2	5.93	126.95	122.80
26	BB	2101	A	N3-C4-N9	-5.93	122.66	127.40
26	BB	2192	U	N1-C2-N3	5.93	118.46	114.90
26	BB	2305	U	C5-C6-N1	-5.93	119.74	122.70
26	BB	2392	A	C8-N9-C4	-5.93	103.43	105.80
26	BB	2567	G	N1-C2-N3	-5.93	120.34	123.90
26	BB	2574	G	C2-N3-C4	-5.93	108.94	111.90
45	BU	75	PHE	CB-CG-CD1	-5.93	116.65	120.80
26	BB	75	G	C1'-O4'-C4'	-5.93	105.16	109.90
26	BB	436	C	C5-C4-N4	-5.93	116.05	120.20
26	BB	631	A	C2-N3-C4	-5.93	107.64	110.60
26	BB	844	A	C2-N3-C4	5.93	113.56	110.60
26	BB	891	G	N3-C2-N2	-5.93	115.75	119.90
26	BB	1582	C	C3'-C2'-C1'	-5.93	96.76	101.50
26	BB	1963	U	N1-C2-O2	5.93	126.95	122.80
26	BB	2460	U	C5-C4-O4	-5.93	122.34	125.90
1	AA	164	G	N3-C4-C5	-5.93	125.64	128.60
1	AA	327	A	C5'-C4'-O4'	-5.93	101.99	109.10
1	AA	361	G	C6-C5-N7	5.93	133.96	130.40
1	AA	621	A	C8-N9-C4	5.93	108.17	105.80
1	AA	1039	G	C5-C6-O6	5.93	132.16	128.60
26	BB	113	U	C5'-C4'-O4'	5.93	116.21	109.10
26	BB	2406	A	O4'-C1'-N9	5.93	112.94	108.20
26	BB	2574	G	C4-C5-C6	5.93	122.36	118.80
1	AA	291	U	C2-N3-C4	-5.92	123.44	127.00
1	AA	402	G	C4-C5-N7	-5.92	108.43	110.80
1	AA	547	A	O4'-C1'-C2'	-5.92	99.88	105.80
1	AA	558	G	N3-C4-C5	-5.92	125.64	128.60
1	AA	703	G	N1-C2-N3	-5.92	120.35	123.90
1	AA	758	C	N3-C2-O2	-5.92	117.75	121.90
2	AB	66	C	C4-C5-C6	-5.92	114.44	117.40
26	BB	305	C	C3'-C2'-C1'	5.92	106.24	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	659	G	C6-C5-N7	-5.92	126.85	130.40
26	BB	758	C	O4'-C1'-N1	5.92	112.94	108.20
26	BB	1238	G	N7-C8-N9	5.92	116.06	113.10
1	AA	27	G	C1'-O4'-C4'	-5.92	105.16	109.90
26	BB	652	U	N1-C2-N3	5.92	118.45	114.90
26	BB	1099	G	C5-C6-N1	5.92	114.46	111.50
26	BB	1904	G	C4-C5-N7	5.92	113.17	110.80
26	BB	2323	G	C6-C5-N7	-5.92	126.85	130.40
26	BB	2363	G	C5'-C4'-O4'	5.92	116.21	109.10
1	AA	237	G	N3-C2-N2	-5.92	115.75	119.90
1	AA	488	C	N3-C4-N4	5.92	122.14	118.00
4	AD	32	G	N1-C2-N2	-5.92	110.87	116.20
24	AX	1	PRO	CA-N-CD	-5.92	103.21	111.50
26	BB	534	U	C2'-C3'-O3'	5.92	123.18	113.70
26	BB	666	A	C5-C6-N1	5.92	120.66	117.70
26	BB	807	U	C6-N1-C2	-5.92	117.45	121.00
26	BB	879	G	N3-C4-C5	-5.92	125.64	128.60
26	BB	1291	C	N3-C4-C5	-5.92	119.53	121.90
26	BB	1315	C	O4'-C1'-N1	5.92	112.94	108.20
26	BB	1943	U	C5-C4-O4	-5.92	122.35	125.90
26	BB	1964	G	C8-N9-C1'	5.92	134.70	127.00
26	BB	2230	G	C2-N3-C4	5.92	114.86	111.90
26	BB	2628	C	N3-C2-O2	-5.92	117.75	121.90
26	BB	2662	A	N1-C2-N3	5.92	132.26	129.30
56	B5	18	PHE	CB-CG-CD1	5.92	124.94	120.80
1	AA	325	A	C1'-O4'-C4'	-5.92	105.16	109.90
1	AA	578	C	C5-C6-N1	5.92	123.96	121.00
1	AA	838	G	C6-C5-N7	-5.92	126.85	130.40
26	BB	263	G	N9-C4-C5	5.92	107.77	105.40
26	BB	377	G	C2-N3-C4	5.92	114.86	111.90
26	BB	629	G	C6-N1-C2	-5.92	121.55	125.10
26	BB	1203	U	C6-N1-C2	5.92	124.55	121.00
26	BB	1344	U	C5-C6-N1	5.92	125.66	122.70
1	AA	245	U	O5'-P-OP2	-5.92	100.37	105.70
1	AA	263	A	N9-C4-C5	5.92	108.17	105.80
1	AA	379	C	N1-C2-O2	-5.92	115.35	118.90
1	AA	466	A	C3'-C2'-C1'	5.92	106.23	101.50
1	AA	832	G	N9-C4-C5	5.92	107.77	105.40
26	BB	589	U	O4'-C1'-C2'	-5.92	99.88	105.80
26	BB	859	G	O4'-C1'-N9	5.92	112.94	108.20
26	BB	1764	C	P-O5'-C5'	5.92	130.37	120.90
26	BB	1975	G	N7-C8-N9	5.92	116.06	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2129	C	O4'-C4'-C3'	5.92	110.83	106.10
26	BB	2184	A	C5-N7-C8	-5.92	100.94	103.90
26	BB	2753	A	O4'-C1'-N9	5.92	112.94	108.20
26	BB	2830	C	C4-C5-C6	-5.92	114.44	117.40
26	BB	2830	C	O4'-C1'-N1	5.92	112.94	108.20
1	AA	205	A	C6-C5-N7	-5.92	128.16	132.30
1	AA	1322	C	N3-C2-O2	-5.92	117.76	121.90
1	AA	1438	G	C5'-C4'-O4'	5.92	116.20	109.10
26	BB	185	G	N9-C1'-C2'	-5.92	105.49	112.00
26	BB	828	U	P-O3'-C3'	5.92	126.80	119.70
26	BB	835	C	N3-C4-N4	-5.92	113.86	118.00
26	BB	1877	A	C5-C6-N6	-5.92	118.97	123.70
26	BB	2446	G	C2-N3-C4	5.92	114.86	111.90
26	BB	2749	A	C8-N9-C4	-5.92	103.43	105.80
1	AA	682	G	C6-C5-N7	-5.92	126.85	130.40
1	AA	725	G	P-O3'-C3'	5.92	126.80	119.70
1	AA	1250	A	C5'-C4'-O4'	5.92	116.20	109.10
26	BB	229	C	C5-C4-N4	-5.92	116.06	120.20
26	BB	2441	U	N1-C1'-C2'	-5.92	105.49	112.00
26	BB	2885	G	C4'-C3'-C2'	-5.92	96.69	102.60
43	BS	44	TYR	CB-CG-CD2	-5.92	117.45	121.00
1	AA	1125	U	N3-C2-O2	-5.91	118.06	122.20
1	AA	1269	A	N9-C4-C5	5.91	108.17	105.80
1	AA	1288	A	N3-C4-N9	-5.91	122.67	127.40
1	AA	1468	A	C8-N9-C4	-5.91	103.43	105.80
1	AA	1524	C	C5-C6-N1	5.91	123.96	121.00
26	BB	325	G	C5-C6-N1	5.91	114.46	111.50
26	BB	378	C	C1'-O4'-C4'	-5.91	105.17	109.90
26	BB	533	G	P-O3'-C3'	5.91	126.80	119.70
26	BB	536	G	N3-C2-N2	-5.91	115.76	119.90
26	BB	555	G	C2'-C3'-O3'	5.91	123.16	113.70
26	BB	601	C	C5'-C4'-O4'	5.91	116.19	109.10
26	BB	604	G	C5-C6-O6	-5.91	125.05	128.60
26	BB	1351	C	N3-C4-N4	-5.91	113.86	118.00
26	BB	1369	G	N3-C4-N9	5.91	129.55	126.00
26	BB	2572	A	C5'-C4'-O4'	5.91	116.20	109.10
26	BB	2836	U	N1-C2-N3	5.91	118.45	114.90
26	BB	2839	G	C8-N9-C4	-5.91	104.03	106.40
26	BB	2848	G	C1'-O4'-C4'	-5.91	105.17	109.90
1	AA	148	G	N3-C2-N2	-5.91	115.76	119.90
1	AA	357	G	C4-C5-N7	-5.91	108.44	110.80
1	AA	826	C	C6-N1-C2	-5.91	117.94	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	12	U	N1-C2-N3	5.91	118.45	114.90
4	AD	37	U	N1-C2-N3	5.91	118.45	114.90
4	AD	40	C	C1'-O4'-C4'	5.91	114.63	109.90
26	BB	130	C	C3'-C2'-C1'	5.91	106.23	101.50
26	BB	285	G	C6-N1-C2	-5.91	121.55	125.10
26	BB	453	A	O5'-C5'-C4'	-5.91	100.47	111.70
26	BB	1707	G	C6-N1-C2	-5.91	121.55	125.10
26	BB	1991	U	C5'-C4'-O4'	5.91	116.19	109.10
26	BB	2054	A	N1-C6-N6	-5.91	115.05	118.60
26	BB	2467	C	C5-C4-N4	5.91	124.34	120.20
1	AA	257	G	P-O3'-C3'	5.91	126.79	119.70
1	AA	600	A	C3'-C2'-C1'	5.91	106.23	101.50
1	AA	963	G	N9-C4-C5	5.91	107.76	105.40
1	AA	1427	C	C6-N1-C2	-5.91	117.94	120.30
26	BB	28	A	C5-N7-C8	5.91	106.86	103.90
26	BB	744	U	C5-C6-N1	-5.91	119.75	122.70
26	BB	1782	U	N1-C2-N3	5.91	118.45	114.90
26	BB	1909	C	N3-C4-C5	-5.91	119.54	121.90
26	BB	2811	G	O4'-C4'-C3'	-5.91	98.09	104.00
31	BG	111	ARG	CD-NE-CZ	5.91	131.88	123.60
1	AA	360	G	C4-C5-N7	-5.91	108.44	110.80
1	AA	546	A	C6-N1-C2	5.91	122.15	118.60
1	AA	849	G	C5-C6-O6	-5.91	125.05	128.60
1	AA	1227	A	C3'-C2'-C1'	5.91	106.23	101.50
1	AA	1524	C	C5-C4-N4	-5.91	116.06	120.20
7	AG	164	ARG	NE-CZ-NH2	5.91	123.25	120.30
26	BB	9	G	C8-N9-C4	-5.91	104.04	106.40
26	BB	24	G	C4-C5-N7	5.91	113.16	110.80
26	BB	170	U	N3-C4-O4	-5.91	115.26	119.40
26	BB	931	U	C3'-C2'-C1'	5.91	106.23	101.50
26	BB	1128	G	N1-C2-N2	5.91	121.52	116.20
26	BB	1413	A	C4-C5-C6	-5.91	114.05	117.00
26	BB	1548	A	C4-C5-C6	-5.91	114.05	117.00
26	BB	1894	C	C5-C6-N1	5.91	123.95	121.00
26	BB	1919	A	C5-C6-N1	5.91	120.66	117.70
26	BB	1990	C	N1-C2-N3	5.91	123.34	119.20
26	BB	2176	A	O4'-C1'-N9	5.91	112.93	108.20
1	AA	882	C	C5'-C4'-O4'	5.91	116.19	109.10
1	AA	1091	U	N1-C2-N3	5.91	118.44	114.90
1	AA	1159	U	C5'-C4'-O4'	5.91	116.19	109.10
3	AC	42	U	N3-C2-O2	-5.91	118.06	122.20
26	BB	248	G	C2-N3-C4	5.91	114.85	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	835	C	N3-C4-C5	-5.91	119.54	121.90
26	BB	1681	G	N3-C4-C5	-5.91	125.65	128.60
26	BB	2399	G	C4-C5-C6	5.91	122.34	118.80
1	AA	567	G	N1-C6-O6	-5.91	116.36	119.90
1	AA	587	G	O4'-C1'-N9	5.91	112.92	108.20
1	AA	1000	A	N1-C2-N3	-5.91	126.35	129.30
1	AA	1015	G	N3-C4-N9	5.91	129.54	126.00
7	AG	25	ARG	NH1-CZ-NH2	5.91	125.90	119.40
25	BA	68	C	C2'-C3'-O3'	5.91	123.15	113.70
26	BB	185	G	C1'-O4'-C4'	5.91	114.62	109.90
26	BB	984	A	C5-C6-N1	5.91	120.65	117.70
26	BB	1283	G	C4-C5-N7	-5.91	108.44	110.80
26	BB	1378	A	P-O3'-C3'	5.91	126.79	119.70
26	BB	1529	G	N3-C4-N9	-5.91	122.46	126.00
26	BB	1714	U	O4'-C1'-N1	5.91	112.92	108.20
26	BB	1983	G	N3-C4-C5	-5.91	125.65	128.60
26	BB	2341	G	C6-N1-C2	-5.91	121.56	125.10
26	BB	2477	U	C5'-C4'-O4'	-5.91	102.02	109.10
26	BB	2590	A	N1-C6-N6	5.91	122.14	118.60
26	BB	2818	U	P-O3'-C3'	5.91	126.79	119.70
26	BB	2835	A	N1-C6-N6	5.91	122.14	118.60
4	AD	2	G	N9-C4-C5	5.90	107.76	105.40
26	BB	436	C	C3'-C2'-C1'	5.90	106.22	101.50
26	BB	1175	A	C5-C6-N6	5.90	128.42	123.70
26	BB	1505	A	C6-C5-N7	5.90	136.43	132.30
26	BB	1642	G	C4-C5-N7	-5.90	108.44	110.80
26	BB	2566	A	O4'-C1'-N9	5.90	112.92	108.20
1	AA	52	C	P-O3'-C3'	5.90	126.78	119.70
1	AA	164	G	N1-C6-O6	5.90	123.44	119.90
1	AA	230	G	C4-C5-N7	5.90	113.16	110.80
1	AA	925	G	C4-C5-N7	-5.90	108.44	110.80
1	AA	1063	C	O3'-P-O5'	5.90	115.22	104.00
1	AA	1185	G	OP2-P-O3'	5.90	118.18	105.20
1	AA	1449	C	C2-N3-C4	5.90	122.85	119.90
1	AA	1493	A	C6-C5-N7	-5.90	128.17	132.30
26	BB	797	G	N3-C4-N9	5.90	129.54	126.00
26	BB	1010	A	C5-C6-N1	-5.90	114.75	117.70
26	BB	1160	G	N1-C2-N3	-5.90	120.36	123.90
26	BB	1447	C	N3-C4-N4	5.90	122.13	118.00
26	BB	2070	A	C3'-C2'-C1'	5.90	106.22	101.50
26	BB	2443	C	N3-C2-O2	-5.90	117.77	121.90
26	BB	2579	C	C5-C4-N4	-5.90	116.07	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2755	C	N3-C4-N4	5.90	122.13	118.00
1	AA	452	A	C4-C5-C6	-5.90	114.05	117.00
1	AA	468	A	C5-N7-C8	5.90	106.85	103.90
1	AA	845	A	O4'-C1'-N9	5.90	112.92	108.20
1	AA	944	G	P-O3'-C3'	5.90	126.78	119.70
1	AA	953	G	N1-C2-N2	5.90	121.51	116.20
1	AA	1261	A	O4'-C1'-C2'	-5.90	99.90	105.80
4	AD	16	C	N1-C2-O2	5.90	122.44	118.90
4	AD	25	U	C6-N1-C2	-5.90	117.46	121.00
26	BB	47	C	C4-C5-C6	5.90	120.35	117.40
26	BB	705	A	C5'-C4'-C3'	-5.90	106.56	116.00
26	BB	809	G	N9-C4-C5	-5.90	103.04	105.40
26	BB	1201	U	O4'-C4'-C3'	-5.90	98.10	104.00
26	BB	1393	A	C2-N3-C4	5.90	113.55	110.60
26	BB	1458	U	O4'-C4'-C3'	5.90	110.82	106.10
26	BB	2288	A	N9-C4-C5	5.90	108.16	105.80
35	BK	61	TYR	CB-CG-CD2	-5.90	117.46	121.00
58	B7	4	ARG	NE-CZ-NH2	5.90	123.25	120.30
4	AD	9	G	C8-N9-C4	-5.90	104.04	106.40
26	BB	32	C	C4-C5-C6	5.90	120.35	117.40
26	BB	818	G	N1-C2-N3	-5.90	120.36	123.90
26	BB	1444	G	N9-C4-C5	5.90	107.76	105.40
26	BB	2383	G	N9-C1'-C2'	-5.90	105.51	112.00
26	BB	2422	C	N1-C2-O2	5.90	122.44	118.90
26	BB	2426	A	C8-N9-C4	-5.90	103.44	105.80
26	BB	2452	C	P-O3'-C3'	5.90	126.78	119.70
1	AA	704	A	C2-N3-C4	-5.90	107.65	110.60
1	AA	1069	C	O4'-C4'-C3'	5.90	110.82	106.10
1	AA	1269	A	C4-C5-N7	-5.90	107.75	110.70
1	AA	1368	A	C6-C5-N7	5.90	136.43	132.30
26	BB	153	U	C4'-C3'-C2'	-5.90	96.70	102.60
26	BB	472	A	O4'-C1'-N9	5.90	112.92	108.20
26	BB	857	G	O4'-C1'-N9	5.90	112.92	108.20
26	BB	956	G	N1-C6-O6	-5.90	116.36	119.90
26	BB	1213	A	C4-C5-C6	-5.90	114.05	117.00
26	BB	1231	U	C1'-O4'-C4'	5.90	114.62	109.90
26	BB	1554	U	C4-C5-C6	5.90	123.24	119.70
26	BB	1702	G	C1'-O4'-C4'	-5.90	105.18	109.90
26	BB	2000	C	C2-N3-C4	5.90	122.85	119.90
26	BB	2182	U	C6-N1-C2	-5.90	117.46	121.00
26	BB	2189	U	C6-N1-C2	5.90	124.54	121.00
26	BB	2410	G	N1-C2-N2	-5.90	110.89	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2461	A	C8-N9-C4	-5.90	103.44	105.80
26	BB	2747	G	C5-C6-O6	5.90	132.14	128.60
1	AA	849	G	C2-N3-C4	5.90	114.85	111.90
1	AA	1033	G	N3-C4-N9	5.90	129.54	126.00
1	AA	1202	U	N1-C2-N3	5.90	118.44	114.90
26	BB	808	G	C5-N7-C8	-5.90	101.35	104.30
26	BB	1556	C	C4'-C3'-C2'	-5.90	96.70	102.60
26	BB	1582	C	C2-N3-C4	-5.90	116.95	119.90
26	BB	1597	A	C3'-C2'-C1'	5.90	106.22	101.50
26	BB	2219	U	N1-C1'-C2'	-5.90	105.51	112.00
26	BB	2352	A	N3-C4-C5	-5.90	122.67	126.80
30	BF	31	VAL	CA-CB-CG1	5.90	119.74	110.90
1	AA	141	G	C5-C6-N1	-5.89	108.55	111.50
1	AA	277	C	O4'-C1'-N1	5.89	112.92	108.20
1	AA	382	A	N9-C4-C5	5.89	108.16	105.80
1	AA	405	U	P-O3'-C3'	5.89	126.77	119.70
1	AA	502	A	C6-N1-C2	-5.89	115.06	118.60
1	AA	953	G	C4-C5-C6	-5.89	115.26	118.80
1	AA	953	G	C5-N7-C8	-5.89	101.35	104.30
1	AA	1372	U	O4'-C1'-N1	5.89	112.92	108.20
2	AB	22	G	N3-C4-C5	-5.89	125.65	128.60
4	AD	63	C	C5-C4-N4	5.89	124.33	120.20
25	BA	9	G	N3-C4-C5	5.89	131.55	128.60
26	BB	120	U	N3-C2-O2	-5.89	118.07	122.20
26	BB	441	U	N3-C4-C5	-5.89	111.06	114.60
26	BB	770	G	C5'-C4'-O4'	5.89	116.17	109.10
26	BB	795	C	N1-C2-N3	5.89	123.33	119.20
26	BB	943	A	C5-C6-N6	5.89	128.42	123.70
26	BB	1214	A	C5-C6-N1	5.89	120.65	117.70
26	BB	1244	A	O4'-C1'-N9	5.89	112.92	108.20
26	BB	1254	A	C5'-C4'-O4'	-5.89	102.03	109.10
26	BB	1712	U	C6-N1-C2	-5.89	117.46	121.00
26	BB	1789	A	C5'-C4'-O4'	5.89	116.17	109.10
26	BB	1811	G	C6-C5-N7	-5.89	126.86	130.40
26	BB	1952	A	C5-C6-N6	-5.89	118.98	123.70
26	BB	2268	A	C8-N9-C4	-5.89	103.44	105.80
26	BB	2410	G	C4-C5-N7	-5.89	108.44	110.80
26	BB	2530	A	C5-C6-N6	-5.89	118.98	123.70
26	BB	2645	G	N3-C2-N2	-5.89	115.77	119.90
26	BB	2779	U	N3-C2-O2	-5.89	118.07	122.20
1	AA	75	G	C1'-O4'-C4'	5.89	114.61	109.90
1	AA	385	C	O4'-C1'-N1	5.89	112.91	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	532	A	C8-N9-C4	-5.89	103.44	105.80
1	AA	593	U	C5-C6-N1	-5.89	119.75	122.70
1	AA	763	G	C5'-C4'-C3'	-5.89	106.57	116.00
3	AC	59	A	N9-C4-C5	5.89	108.16	105.80
26	BB	78	U	C5'-C4'-O4'	5.89	116.17	109.10
26	BB	220	G	C5-C6-N1	-5.89	108.55	111.50
26	BB	968	C	N1-C1'-C2'	-5.89	105.52	112.00
26	BB	1192	G	N3-C4-C5	-5.89	125.65	128.60
26	BB	2123	G	C1'-O4'-C4'	5.89	114.61	109.90
26	BB	2581	G	C8-N9-C4	-5.89	104.04	106.40
1	AA	512	U	C2-N3-C4	-5.89	123.47	127.00
1	AA	563	A	C4-C5-C6	-5.89	114.05	117.00
1	AA	953	G	C6-N1-C2	5.89	128.63	125.10
1	AA	1124	G	C4-C5-C6	5.89	122.33	118.80
1	AA	1330	U	C3'-C2'-C1'	5.89	106.21	101.50
1	AA	1340	A	C5-C6-N1	-5.89	114.75	117.70
1	AA	1428	A	N9-C1'-C2'	-5.89	105.52	112.00
4	AD	23	G	C5-C6-N1	5.89	114.44	111.50
26	BB	934	U	O4'-C1'-C2'	5.89	112.90	107.60
26	BB	1865	U	C4-C5-C6	5.89	123.23	119.70
26	BB	2412	A	C5'-C4'-O4'	5.89	116.17	109.10
1	AA	727	G	N3-C4-N9	5.89	129.53	126.00
2	AB	12	U	P-O3'-C3'	5.89	126.77	119.70
2	AB	26	A	C5'-C4'-C3'	-5.89	106.58	116.00
17	AQ	19	TYR	CB-CG-CD2	-5.89	117.47	121.00
25	BA	93	C	N3-C4-C5	-5.89	119.54	121.90
26	BB	43	G	P-O3'-C3'	5.89	126.77	119.70
26	BB	248	G	N3-C4-C5	-5.89	125.66	128.60
26	BB	366	C	N3-C4-N4	5.89	122.12	118.00
26	BB	1063	G	C1'-O4'-C4'	-5.89	105.19	109.90
26	BB	1484	U	C5-C6-N1	-5.89	119.75	122.70
26	BB	1862	G	C3'-C2'-C1'	-5.89	96.79	101.50
26	BB	2018	G	C4-C5-N7	-5.89	108.44	110.80
26	BB	2153	C	C5-C4-N4	-5.89	116.08	120.20
26	BB	2270	A	N7-C8-N9	5.89	116.75	113.80
26	BB	2290	G	C4-C5-C6	-5.89	115.27	118.80
26	BB	2383	G	C6-C5-N7	5.89	133.93	130.40
42	BR	102	ARG	NE-CZ-NH2	-5.89	117.36	120.30
1	AA	278	G	C6-N1-C2	-5.89	121.57	125.10
1	AA	462	G	C6-N1-C2	-5.89	121.57	125.10
26	BB	303	G	N1-C2-N3	-5.89	120.37	123.90
26	BB	1249	U	C5-C6-N1	-5.89	119.76	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1440	U	C5'-C4'-O4'	5.89	116.17	109.10
26	BB	1512	C	C2-N3-C4	5.89	122.84	119.90
26	BB	1943	U	N3-C4-C5	5.89	118.13	114.60
26	BB	1965	C	C6-N1-C2	5.89	122.66	120.30
1	AA	51	A	O4'-C1'-C2'	-5.89	99.91	105.80
1	AA	82	G	C5-C6-O6	-5.89	125.07	128.60
1	AA	163	C	N3-C4-C5	-5.89	119.55	121.90
1	AA	306	A	N9-C4-C5	5.89	108.15	105.80
1	AA	339	C	C4-C5-C6	-5.89	114.46	117.40
1	AA	418	C	N3-C4-C5	-5.89	119.55	121.90
1	AA	440	C	N3-C4-N4	5.89	122.12	118.00
1	AA	962	C	O4'-C4'-C3'	5.89	110.81	106.10
25	BA	88	C	N3-C4-C5	5.89	124.25	121.90
26	BB	200	U	C5-C6-N1	-5.89	119.76	122.70
26	BB	1348	C	O4'-C1'-C2'	-5.89	99.91	105.80
26	BB	1425	G	N7-C8-N9	5.89	116.04	113.10
26	BB	1479	G	O4'-C1'-N9	5.89	112.91	108.20
26	BB	1723	G	C2'-C3'-O3'	5.89	123.12	113.70
26	BB	2035	G	C3'-C2'-C1'	-5.89	96.79	101.50
26	BB	2479	U	P-O3'-C3'	5.89	126.76	119.70
26	BB	2738	A	O4'-C1'-N9	-5.89	103.49	108.20
38	BN	139	GLY	O-C-N	-5.89	113.19	123.20
1	AA	712	A	N1-C6-N6	5.88	122.13	118.60
1	AA	771	G	N1-C2-N3	-5.88	120.37	123.90
1	AA	1288	A	C5-N7-C8	-5.88	100.96	103.90
3	AC	18	A	P-O3'-C3'	5.88	126.76	119.70
26	BB	180	G	C4-C5-C6	5.88	122.33	118.80
26	BB	353	C	C2-N3-C4	-5.88	116.96	119.90
26	BB	736	C	C2-N3-C4	5.88	122.84	119.90
27	BC	33	LEU	CB-CG-CD2	5.88	121.00	111.00
27	BC	174	THR	CA-CB-CG2	5.88	120.64	112.40
1	AA	196	A	O4'-C4'-C3'	5.88	110.81	106.10
1	AA	262	A	N3-C4-N9	-5.88	122.69	127.40
1	AA	1180	A	C6-C5-N7	5.88	136.42	132.30
1	AA	1487	G	C2-N3-C4	5.88	114.84	111.90
26	BB	29	U	C5'-C4'-O4'	5.88	116.16	109.10
26	BB	51	G	C5-C6-O6	5.88	132.13	128.60
26	BB	1275	A	N1-C2-N3	-5.88	126.36	129.30
26	BB	2070	A	C5-N7-C8	-5.88	100.96	103.90
26	BB	2278	A	O4'-C1'-N9	5.88	112.91	108.20
26	BB	2859	G	C4-C5-C6	5.88	122.33	118.80
1	AA	264	C	C5'-C4'-O4'	-5.88	102.04	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	373	A	C4-C5-N7	5.88	113.64	110.70
1	AA	517	G	N1-C2-N2	-5.88	110.91	116.20
1	AA	524	G	C2-N3-C4	5.88	114.84	111.90
1	AA	565	U	N1-C1'-C2'	-5.88	105.53	112.00
1	AA	608	A	C5-C6-N6	-5.88	118.99	123.70
25	BA	74	U	C1'-O4'-C4'	-5.88	105.19	109.90
25	BA	107	G	C6-C5-N7	-5.88	126.87	130.40
26	BB	117	G	N9-C4-C5	-5.88	103.05	105.40
26	BB	1223	G	N3-C2-N2	5.88	124.02	119.90
26	BB	1853	A	N7-C8-N9	-5.88	110.86	113.80
26	BB	2183	A	O4'-C1'-N9	-5.88	103.50	108.20
26	BB	2369	A	N1-C6-N6	5.88	122.13	118.60
26	BB	2396	G	N9-C4-C5	-5.88	103.05	105.40
1	AA	755	G	C5'-C4'-O4'	5.88	116.16	109.10
1	AA	1230	C	N3-C2-O2	-5.88	117.78	121.90
26	BB	1608	A	O5'-P-OP2	-5.88	100.41	105.70
26	BB	1987	A	C5'-C4'-O4'	5.88	116.16	109.10
1	AA	315	A	O4'-C1'-N9	5.88	112.90	108.20
1	AA	433	G	N3-C4-C5	5.88	131.54	128.60
1	AA	1254	A	C8-N9-C4	-5.88	103.45	105.80
4	AD	50	G	N1-C6-O6	-5.88	116.37	119.90
26	BB	131	A	C8-N9-C4	-5.88	103.45	105.80
26	BB	271	G	N1-C6-O6	5.88	123.43	119.90
26	BB	577	G	N3-C4-N9	5.88	129.53	126.00
26	BB	721	A	C2-N3-C4	5.88	113.54	110.60
26	BB	1880	U	N3-C4-O4	5.88	123.52	119.40
26	BB	2353	G	C5-N7-C8	-5.88	101.36	104.30
26	BB	2395	C	O4'-C4'-C3'	-5.88	98.12	104.00
26	BB	2654	A	C6-N1-C2	-5.88	115.07	118.60
27	BC	56	ASP	CB-CG-OD1	-5.88	113.01	118.30
44	BT	77	PHE	CB-CG-CD2	-5.88	116.69	120.80
1	AA	154	U	N3-C2-O2	-5.88	118.09	122.20
1	AA	162	A	C4-C5-N7	-5.88	107.76	110.70
1	AA	455	G	N9-C4-C5	-5.88	103.05	105.40
1	AA	648	A	C3'-C2'-C1'	-5.88	96.80	101.50
1	AA	720	C	C6-N1-C2	-5.88	117.95	120.30
1	AA	1046	A	C5-C6-N6	-5.88	119.00	123.70
1	AA	1255	G	N7-C8-N9	5.88	116.04	113.10
1	AA	1514	G	N9-C1'-C2'	-5.88	105.54	112.00
2	AB	53	G	C6-C5-N7	-5.88	126.87	130.40
4	AD	28	U	C4-C5-C6	5.88	123.23	119.70
15	AO	120	ARG	NE-CZ-NH1	-5.88	117.36	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	40	U	N3-C4-O4	-5.88	115.29	119.40
26	BB	100	U	P-O3'-C3'	5.88	126.75	119.70
26	BB	246	C	C2-N3-C4	5.88	122.84	119.90
26	BB	326	G	O4'-C1'-N9	5.88	112.90	108.20
26	BB	789	A	C4'-C3'-C2'	-5.88	96.72	102.60
26	BB	985	C	O4'-C4'-C3'	5.88	110.80	106.10
26	BB	1073	A	N1-C6-N6	-5.88	115.07	118.60
26	BB	1441	G	O4'-C4'-C3'	5.88	110.80	106.10
26	BB	1572	A	N9-C4-C5	5.88	108.15	105.80
26	BB	1996	C	C1'-O4'-C4'	-5.88	105.20	109.90
26	BB	2218	G	N3-C4-N9	5.88	129.53	126.00
26	BB	2554	U	O4'-C1'-C2'	-5.88	99.92	105.80
26	BB	2679	A	C8-N9-C4	-5.88	103.45	105.80
26	BB	2760	C	N3-C4-C5	-5.88	119.55	121.90
1	AA	1226	C	C6-N1-C2	-5.88	117.95	120.30
2	AB	42	G	C6-N1-C2	-5.88	121.58	125.10
26	BB	246	C	C4'-C3'-C2'	5.88	108.47	102.60
26	BB	1809	A	N1-C6-N6	-5.88	115.08	118.60
26	BB	2373	G	C8-N9-C1'	5.88	134.64	127.00
26	BB	2374	C	N1-C2-O2	5.88	122.42	118.90
26	BB	2617	U	O4'-C1'-N1	5.88	112.90	108.20
26	BB	2838	G	N3-C2-N2	-5.88	115.79	119.90
1	AA	94	G	N1-C2-N2	5.87	121.49	116.20
1	AA	196	A	O4'-C1'-N9	5.87	112.90	108.20
1	AA	264	C	N3-C4-N4	5.87	122.11	118.00
1	AA	359	G	C8-N9-C4	-5.87	104.05	106.40
1	AA	411	A	C5'-C4'-O4'	-5.87	102.05	109.10
1	AA	412	A	C4'-C3'-C2'	5.87	108.47	102.60
1	AA	602	A	C5'-C4'-C3'	-5.87	106.60	116.00
1	AA	1348	U	C5-C6-N1	-5.87	119.76	122.70
1	AA	1497	G	C6-C5-N7	-5.87	126.88	130.40
4	AD	19	G	P-O3'-C3'	5.87	126.75	119.70
4	AD	41	C	C5-C4-N4	5.87	124.31	120.20
26	BB	306	U	C1'-O4'-C4'	-5.87	105.20	109.90
26	BB	409	G	C8-N9-C1'	5.87	134.63	127.00
26	BB	465	G	P-O3'-C3'	5.87	126.75	119.70
26	BB	1020	A	P-O3'-C3'	5.87	126.75	119.70
26	BB	1299	G	C8-N9-C4	-5.87	104.05	106.40
26	BB	1635	A	N9-C4-C5	5.87	108.15	105.80
26	BB	2137	U	N3-C4-C5	5.87	118.12	114.60
26	BB	2666	C	C6-N1-C2	5.87	122.65	120.30
40	BP	22	ARG	NE-CZ-NH1	5.87	123.24	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	817	C	C3'-C2'-C1'	-5.87	96.80	101.50
1	AA	940	C	N1-C1'-C2'	-5.87	105.54	112.00
1	AA	1260	G	C6-N1-C2	-5.87	121.58	125.10
4	AD	11	A	N9-C1'-C2'	-5.87	105.54	112.00
4	AD	11	A	O4'-C4'-C3'	5.87	110.80	106.10
19	AS	16	PHE	CB-CG-CD1	-5.87	116.69	120.80
25	BA	119	A	C4-C5-N7	-5.87	107.76	110.70
26	BB	274	C	N3-C2-O2	-5.87	117.79	121.90
26	BB	392	U	O4'-C1'-C2'	-5.87	99.93	105.80
26	BB	694	U	C2-N3-C4	5.87	130.52	127.00
26	BB	823	C	C5-C4-N4	5.87	124.31	120.20
26	BB	874	G	C4'-C3'-C2'	-5.87	96.73	102.60
26	BB	1185	G	C8-N9-C4	-5.87	104.05	106.40
26	BB	1325	U	N1-C2-N3	5.87	118.42	114.90
26	BB	1432	G	N3-C4-N9	5.87	129.52	126.00
26	BB	1826	G	N3-C2-N2	-5.87	115.79	119.90
26	BB	1968	G	O4'-C1'-N9	5.87	112.90	108.20
26	BB	2468	A	C5-C6-N6	5.87	128.40	123.70
1	AA	244	U	O5'-P-OP1	-5.87	100.42	105.70
1	AA	866	C	P-O5'-C5'	5.87	130.29	120.90
1	AA	1216	A	C4-C5-C6	-5.87	114.06	117.00
4	AD	57	C	N3-C4-N4	5.87	122.11	118.00
25	BA	84	G	C5'-C4'-O4'	5.87	116.14	109.10
26	BB	102	U	C5-C6-N1	-5.87	119.77	122.70
26	BB	1177	G	N9-C1'-C2'	-5.87	105.54	112.00
26	BB	1541	C	O4'-C1'-N1	5.87	112.90	108.20
26	BB	1709	U	N3-C4-O4	5.87	123.51	119.40
26	BB	2002	G	N3-C2-N2	-5.87	115.79	119.90
26	BB	2025	C	C5'-C4'-O4'	5.87	116.14	109.10
26	BB	2269	G	N3-C2-N2	5.87	124.01	119.90
26	BB	2311	A	C5-C6-N1	5.87	120.64	117.70
26	BB	2473	U	C6-N1-C2	-5.87	117.48	121.00
26	BB	2839	G	N9-C4-C5	5.87	107.75	105.40
1	AA	112	G	C4-C5-C6	5.87	122.32	118.80
1	AA	204	G	N3-C4-N9	5.87	129.52	126.00
1	AA	640	A	C8-N9-C4	-5.87	103.45	105.80
1	AA	1476	A	N1-C2-N3	5.87	132.23	129.30
1	AA	1501	C	O4'-C1'-C2'	5.87	112.88	107.60
4	AD	54	G	O5'-P-OP1	-5.87	100.42	105.70
25	BA	69	G	N1-C2-N2	5.87	121.48	116.20
25	BA	99	A	C8-N9-C4	5.87	108.15	105.80
26	BB	72	U	N1-C2-N3	5.87	118.42	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1264	A	C5-N7-C8	-5.87	100.97	103.90
26	BB	1509	A	C5'-C4'-O4'	5.87	116.14	109.10
26	BB	1773	A	N9-C4-C5	-5.87	103.45	105.80
26	BB	1859	U	N3-C2-O2	-5.87	118.09	122.20
26	BB	1904	G	C5-C6-N1	5.87	114.43	111.50
26	BB	2562	U	C3'-C2'-C1'	5.87	106.19	101.50
37	BM	105	ARG	NE-CZ-NH1	5.87	123.23	120.30
1	AA	354	G	N3-C4-C5	-5.87	125.67	128.60
26	BB	2156	G	C6-N1-C2	-5.87	121.58	125.10
26	BB	2709	G	C5'-C4'-C3'	-5.87	106.61	116.00
26	BB	2889	C	N3-C4-C5	5.87	124.25	121.90
1	AA	831	A	C5-C6-N1	5.87	120.63	117.70
1	AA	1103	C	N3-C4-C5	-5.87	119.55	121.90
1	AA	1272	G	C2-N3-C4	5.87	114.83	111.90
1	AA	1537	U	N1-C2-N3	5.87	118.42	114.90
26	BB	736	C	C5-C4-N4	5.87	124.31	120.20
26	BB	950	G	C8-N9-C4	-5.87	104.05	106.40
26	BB	1625	C	C2-N3-C4	5.87	122.83	119.90
26	BB	2069	7MG	P-O3'-C3'	5.87	126.74	119.70
26	BB	2201	G	C4'-C3'-C2'	-5.87	96.73	102.60
34	BJ	28	ASP	CB-CG-OD1	-5.87	113.02	118.30
1	AA	32	A	N1-C2-N3	-5.86	126.37	129.30
1	AA	134	G	C5-N7-C8	-5.86	101.37	104.30
1	AA	247	G	N3-C2-N2	-5.86	115.80	119.90
1	AA	282	A	N3-C4-C5	-5.86	122.69	126.80
1	AA	442	G	C1'-O4'-C4'	5.86	114.59	109.90
1	AA	686	U	C5-C4-O4	-5.86	122.38	125.90
1	AA	878	A	N1-C2-N3	-5.86	126.37	129.30
1	AA	916	U	N1-C2-N3	5.86	118.42	114.90
1	AA	1258	G	O4'-C4'-C3'	5.86	110.79	106.10
1	AA	1335	U	N3-C2-O2	-5.86	118.09	122.20
1	AA	1526	G	N3-C4-C5	-5.86	125.67	128.60
2	AB	38	A	C4-C5-N7	5.86	113.63	110.70
26	BB	687	C	N3-C4-N4	-5.86	113.89	118.00
26	BB	1345	C	N1-C2-N3	-5.86	115.09	119.20
26	BB	1433	A	C3'-C2'-C1'	-5.86	96.81	101.50
26	BB	1548	A	C3'-C2'-C1'	5.86	106.19	101.50
26	BB	2007	U	C5'-C4'-C3'	-5.86	106.62	116.00
33	BI	130	VAL	CG1-CB-CG2	-5.86	101.52	110.90
1	AA	109	A	C5'-C4'-C3'	-5.86	106.62	116.00
1	AA	1067	A	N9-C4-C5	-5.86	103.45	105.80
1	AA	1293	C	N3-C2-O2	-5.86	117.80	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	16	A	C3'-C2'-C1'	5.86	106.19	101.50
26	BB	669	G	C4-C5-N7	-5.86	108.45	110.80
26	BB	1297	C	C5'-C4'-C3'	-5.86	106.62	116.00
26	BB	1483	G	C5-N7-C8	-5.86	101.37	104.30
26	BB	1527	G	C5-C6-N1	-5.86	108.57	111.50
26	BB	1759	A	N1-C2-N3	-5.86	126.37	129.30
1	AA	129	A	O4'-C4'-C3'	5.86	110.79	106.10
1	AA	178	C	O4'-C1'-N1	5.86	112.89	108.20
1	AA	261	U	C3'-C2'-C1'	5.86	106.19	101.50
1	AA	731	G	C8-N9-C4	-5.86	104.06	106.40
1	AA	1212	U	C5-C4-O4	-5.86	122.38	125.90
1	AA	1228	C	C4'-C3'-C2'	-5.86	96.74	102.60
1	AA	1438	G	N3-C4-N9	5.86	129.52	126.00
25	BA	10	G	C8-N9-C4	-5.86	104.06	106.40
26	BB	79	C	C4-C5-C6	-5.86	114.47	117.40
26	BB	546	U	O4'-C1'-N1	5.86	112.89	108.20
26	BB	630	G	C5-C6-N1	5.86	114.43	111.50
26	BB	698	C	C2-N1-C1'	-5.86	112.35	118.80
26	BB	717	C	N1-C2-O2	5.86	122.42	118.90
26	BB	887	U	C4-C5-C6	5.86	123.22	119.70
26	BB	1077	A	N1-C2-N3	-5.86	126.37	129.30
38	BN	48	ARG	NE-CZ-NH2	5.86	123.23	120.30
39	BO	108	VAL	CA-CB-CG2	5.86	119.69	110.90
1	AA	1530	G	C6-N1-C2	-5.86	121.58	125.10
4	AD	67	C	C4'-C3'-C2'	-5.86	96.74	102.60
15	AO	44	PRO	N-CA-CB	5.86	110.33	103.30
25	BA	15	A	C6-N1-C2	5.86	122.12	118.60
26	BB	113	U	P-O3'-C3'	5.86	126.73	119.70
26	BB	386	G	C2-N3-C4	5.86	114.83	111.90
26	BB	862	G	N7-C8-N9	5.86	116.03	113.10
26	BB	1278	C	P-O3'-C3'	5.86	126.73	119.70
26	BB	1439	A	N9-C4-C5	5.86	108.14	105.80
26	BB	2355	G	C5-N7-C8	5.86	107.23	104.30
26	BB	2412	A	C4-C5-N7	-5.86	107.77	110.70
1	AA	16	A	C8-N9-C4	-5.86	103.46	105.80
1	AA	74	A	C5'-C4'-O4'	5.86	116.13	109.10
1	AA	378	G	N9-C1'-C2'	-5.86	105.56	112.00
1	AA	1517	G	C8-N9-C1'	5.86	134.62	127.00
2	AB	59	G	N1-C6-O6	-5.86	116.39	119.90
11	AK	77	VAL	CA-CB-CG2	5.86	119.69	110.90
26	BB	23	G	C8-N9-C4	-5.86	104.06	106.40
26	BB	46	G	O4'-C4'-C3'	-5.86	98.14	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	620	G	O3'-P-O5'	5.86	115.13	104.00
26	BB	1395	A	C4-C5-N7	-5.86	107.77	110.70
26	BB	1609	A	C2-N3-C4	5.86	113.53	110.60
26	BB	1877	A	P-O3'-C3'	5.86	126.73	119.70
26	BB	2075	U	C1'-O4'-C4'	-5.86	105.22	109.90
54	B3	50	GLY	C-N-CA	5.86	136.34	121.70
1	AA	14	U	C5'-C4'-O4'	5.86	116.13	109.10
1	AA	37	U	O4'-C1'-N1	5.86	112.89	108.20
1	AA	137	U	N1-C2-N3	5.86	118.41	114.90
1	AA	188	C	P-O3'-C3'	5.86	126.73	119.70
1	AA	508	U	C2-N3-C4	-5.86	123.49	127.00
1	AA	629	A	C5'-C4'-O4'	5.86	116.13	109.10
1	AA	962	C	C3'-C2'-C1'	5.86	106.18	101.50
1	AA	1427	C	N1-C1'-C2'	-5.86	105.56	112.00
4	AD	35	C	C5-C4-N4	5.86	124.30	120.20
22	AV	40	PHE	CD1-CE1-CZ	-5.86	113.07	120.10
26	BB	1029	A	N7-C8-N9	5.86	116.73	113.80
26	BB	1255	U	N1-C2-N3	5.86	118.41	114.90
26	BB	1345	C	C2-N3-C4	5.86	122.83	119.90
26	BB	1973	G	C2-N3-C4	5.86	114.83	111.90
26	BB	2140	G	N3-C4-N9	5.86	129.51	126.00
27	BC	162	ARG	CD-NE-CZ	5.86	131.80	123.60
1	AA	287	U	C2-N3-C4	-5.85	123.49	127.00
1	AA	1106	G	C4'-C3'-C2'	-5.85	96.75	102.60
1	AA	1394	A	C6-N1-C2	5.85	122.11	118.60
26	BB	122	G	N1-C2-N3	-5.85	120.39	123.90
26	BB	567	U	N3-C4-C5	-5.85	111.09	114.60
26	BB	1498	C	C4-C5-C6	-5.85	114.47	117.40
46	BV	76	ARG	NH1-CZ-NH2	-5.85	112.96	119.40
1	AA	59	A	C4-C5-C6	5.85	119.93	117.00
1	AA	149	A	N1-C2-N3	-5.85	126.37	129.30
1	AA	184	G	O4'-C1'-N9	5.85	112.88	108.20
1	AA	407	U	N3-C4-O4	5.85	123.50	119.40
1	AA	775	G	N3-C4-C5	-5.85	125.67	128.60
7	AG	64	TYR	CB-CG-CD2	-5.85	117.49	121.00
26	BB	74	A	C8-N9-C4	-5.85	103.46	105.80
26	BB	383	C	C5-C4-N4	-5.85	116.10	120.20
26	BB	495	G	C6-N1-C2	-5.85	121.59	125.10
26	BB	565	C	C5-C4-N4	-5.85	116.10	120.20
26	BB	1241	A	C5'-C4'-O4'	5.85	116.12	109.10
26	BB	1475	G	C8-N9-C1'	5.85	134.61	127.00
26	BB	1629	U	C2-N3-C4	-5.85	123.49	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1642	G	O4'-C1'-N9	5.85	112.88	108.20
26	BB	1864	U	N3-C2-O2	-5.85	118.10	122.20
26	BB	1956	U	C1'-O4'-C4'	-5.85	105.22	109.90
26	BB	1972	G	C4'-C3'-C2'	-5.85	96.75	102.60
26	BB	2428	G	C5-C6-O6	5.85	132.11	128.60
26	BB	2502	G	C8-N9-C4	-5.85	104.06	106.40
26	BB	2893	A	P-O3'-C3'	5.85	126.72	119.70
32	BH	125	PRO	N-CA-CB	5.85	110.32	103.30
1	AA	39	G	C2-N3-C4	5.85	114.83	111.90
1	AA	336	A	C6-N1-C2	-5.85	115.09	118.60
26	BB	379	G	C5-N7-C8	5.85	107.23	104.30
26	BB	926	G	C4'-C3'-C2'	-5.85	96.75	102.60
26	BB	1967	C	C5'-C4'-C3'	-5.85	106.64	116.00
26	BB	2168	G	C6-C5-N7	-5.85	126.89	130.40
26	BB	2673	G	C3'-C2'-C1'	5.85	106.18	101.50
1	AA	94	G	N3-C4-C5	-5.85	125.67	128.60
1	AA	484	G	N9-C1'-C2'	-5.85	105.57	112.00
1	AA	721	G	N1-C2-N3	5.85	127.41	123.90
1	AA	742	G	C6-N1-C2	-5.85	121.59	125.10
1	AA	768	A	C5'-C4'-O4'	5.85	116.12	109.10
1	AA	884	U	N3-C2-O2	-5.85	118.11	122.20
26	BB	113	U	C5'-C4'-C3'	-5.85	106.64	116.00
26	BB	114	U	O4'-C4'-C3'	5.85	110.78	106.10
26	BB	211	C	C2-N3-C4	-5.85	116.97	119.90
26	BB	742	A	N3-C4-C5	-5.85	122.70	126.80
26	BB	743	A	C5'-C4'-C3'	-5.85	106.64	116.00
26	BB	749	A	C4-C5-C6	-5.85	114.08	117.00
26	BB	1818	U	N3-C4-O4	5.85	123.50	119.40
26	BB	2162	G	C6-C5-N7	5.85	133.91	130.40
26	BB	2350	C	C3'-C2'-C1'	-5.85	96.82	101.50
1	AA	71	A	C3'-C2'-C1'	5.85	106.18	101.50
1	AA	716	A	C5'-C4'-O4'	5.85	116.12	109.10
1	AA	793	U	C6-N1-C2	-5.85	117.49	121.00
1	AA	1494	G	P-O3'-C3'	5.85	126.72	119.70
4	AD	64	G	C6-N1-C2	5.85	128.61	125.10
25	BA	109	A	N1-C6-N6	5.85	122.11	118.60
26	BB	67	U	C4-C5-C6	-5.85	116.19	119.70
26	BB	123	G	O4'-C1'-N9	5.85	112.88	108.20
26	BB	232	G	C1'-O4'-C4'	-5.85	105.22	109.90
26	BB	262	A	C4-C5-C6	-5.85	114.08	117.00
26	BB	303	G	C8-N9-C4	-5.85	104.06	106.40
26	BB	1571	A	C2-N3-C4	5.85	113.52	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1983	G	O4'-C4'-C3'	5.85	110.78	106.10
26	BB	2094	A	C4'-C3'-C2'	-5.85	96.75	102.60
26	BB	2110	G	N3-C2-N2	5.85	123.99	119.90
26	BB	2246	G	C4'-C3'-C2'	-5.85	96.75	102.60
26	BB	2330	G	C8-N9-C4	-5.85	104.06	106.40
26	BB	2474	U	N1-C2-N3	-5.85	111.39	114.90
26	BB	2569	G	N3-C4-N9	5.85	129.51	126.00
26	BB	2842	G	C1'-O4'-C4'	-5.85	105.22	109.90
40	BP	45	ARG	NE-CZ-NH2	5.85	123.22	120.30
1	AA	115	G	O4'-C4'-C3'	5.85	110.78	106.10
1	AA	1304	G	OP2-P-O3'	5.85	118.06	105.20
26	BB	155	A	N7-C8-N9	-5.85	110.88	113.80
26	BB	392	U	C2-N3-C4	-5.85	123.49	127.00
26	BB	1129	A	C4-C5-C6	5.85	119.92	117.00
26	BB	2006	C	C4-C5-C6	5.85	120.32	117.40
26	BB	2326	C	N1-C2-O2	5.85	122.41	118.90
26	BB	2854	G	N1-C2-N3	-5.85	120.39	123.90
38	BN	59	ARG	NH1-CZ-NH2	-5.85	112.97	119.40
1	AA	11	G	O4'-C1'-N9	5.84	112.88	108.20
1	AA	1104	G	N9-C4-C5	5.84	107.74	105.40
26	BB	420	C	C5-C6-N1	5.84	123.92	121.00
26	BB	438	G	C4-C5-C6	5.84	122.31	118.80
26	BB	546	U	C2-N3-C4	5.84	130.51	127.00
26	BB	1310	G	C8-N9-C1'	5.84	134.60	127.00
26	BB	2201	G	N3-C4-C5	-5.84	125.68	128.60
26	BB	2540	C	N1-C2-O2	5.84	122.41	118.90
26	BB	2582	G	N7-C8-N9	5.84	116.02	113.10
26	BB	2587	A	C8-N9-C4	-5.84	103.46	105.80
26	BB	2837	A	C3'-C2'-C1'	5.84	106.18	101.50
26	BB	2865	U	N3-C4-O4	-5.84	115.31	119.40
40	BP	12	ARG	NE-CZ-NH1	5.84	123.22	120.30
48	BX	51	GLN	N-CA-CB	-5.84	100.08	110.60
1	AA	234	C	P-O3'-C3'	5.84	126.71	119.70
1	AA	869	G	O4'-C4'-C3'	5.84	110.78	106.10
1	AA	1123	U	N1-C2-N3	5.84	118.41	114.90
26	BB	555	G	N1-C2-N3	-5.84	120.39	123.90
26	BB	648	G	C5-N7-C8	-5.84	101.38	104.30
26	BB	2717	C	N3-C4-N4	5.84	122.09	118.00
26	BB	2742	G	C2-N3-C4	-5.84	108.98	111.90
1	AA	144	G	C5-N7-C8	-5.84	101.38	104.30
1	AA	149	A	N1-C6-N6	-5.84	115.09	118.60
1	AA	727	G	C6-C5-N7	-5.84	126.89	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	749	A	C3'-C2'-C1'	5.84	106.17	101.50
1	AA	802	A	N1-C2-N3	-5.84	126.38	129.30
1	AA	836	G	C4-C5-N7	-5.84	108.46	110.80
1	AA	877	G	C5-C6-N1	5.84	114.42	111.50
1	AA	913	A	C4-C5-C6	-5.84	114.08	117.00
1	AA	963	G	C5'-C4'-O4'	5.84	116.11	109.10
1	AA	1077	G	N3-C4-C5	-5.84	125.68	128.60
1	AA	1226	C	N1-C2-O2	5.84	122.41	118.90
1	AA	1231	G	N1-C2-N2	-5.84	110.94	116.20
15	AO	52	CYS	O-C-N	5.84	132.04	122.70
25	BA	83	G	O4'-C1'-N9	5.84	112.87	108.20
26	BB	44	A	C2-N3-C4	5.84	113.52	110.60
26	BB	821	A	N3-C4-C5	-5.84	122.71	126.80
26	BB	1021	A	O4'-C1'-C2'	-5.84	99.96	105.80
26	BB	1049	C	N3-C4-N4	5.84	122.09	118.00
26	BB	1090	A	N7-C8-N9	-5.84	110.88	113.80
26	BB	1281	G	C2-N3-C4	5.84	114.82	111.90
26	BB	1418	G	C5-C6-O6	-5.84	125.09	128.60
26	BB	1530	G	N7-C8-N9	5.84	116.02	113.10
26	BB	2058	A	O4'-C1'-N9	5.84	112.87	108.20
26	BB	2070	A	O4'-C1'-N9	5.84	112.87	108.20
26	BB	2081	U	N1-C1'-C2'	-5.84	105.57	112.00
26	BB	2572	A	C2-N3-C4	5.84	113.52	110.60
26	BB	2871	U	C5-C6-N1	5.84	125.62	122.70
1	AA	61	G	C8-N9-C4	-5.84	104.06	106.40
1	AA	70	U	C6-N1-C2	5.84	124.50	121.00
1	AA	1200	C	N1-C2-O2	5.84	122.40	118.90
1	AA	1268	G	N3-C4-N9	-5.84	122.50	126.00
3	AC	25	U	C6-N1-C2	-5.84	117.50	121.00
6	AF	92	ASP	CB-CG-OD1	-5.84	113.04	118.30
26	BB	389	G	N1-C2-N3	-5.84	120.40	123.90
26	BB	435	C	N3-C4-C5	5.84	124.24	121.90
26	BB	445	C	N3-C4-C5	-5.84	119.56	121.90
26	BB	725	G	N1-C2-N3	-5.84	120.40	123.90
26	BB	882	G	C4-C5-C6	5.84	122.30	118.80
26	BB	945	A	C5-C6-N6	-5.84	119.03	123.70
26	BB	2066	C	N3-C4-C5	-5.84	119.56	121.90
26	BB	2137	U	N3-C2-O2	-5.84	118.11	122.20
26	BB	2300	C	C1'-O4'-C4'	-5.84	105.23	109.90
1	AA	142	G	O4'-C4'-C3'	5.84	110.77	106.10
1	AA	281	G	O4'-C1'-N9	5.84	112.87	108.20
1	AA	1351	U	N3-C2-O2	-5.84	118.11	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	403	U	C3'-C2'-C1'	-5.84	96.83	101.50
26	BB	1275	A	C6-N1-C2	5.84	122.10	118.60
26	BB	1385	A	O5'-P-OP1	-5.84	100.45	105.70
26	BB	2505	G	C4-C5-N7	-5.84	108.47	110.80
1	AA	136	C	C1'-O4'-C4'	-5.84	105.23	109.90
1	AA	190	A	P-O3'-C3'	5.84	126.70	119.70
1	AA	617	G	C5-C6-N1	5.84	114.42	111.50
1	AA	804	U	C4'-C3'-C2'	-5.84	96.76	102.60
3	AC	22	G	C4'-C3'-C2'	5.84	108.44	102.60
18	AR	53	ARG	NE-CZ-NH2	5.84	123.22	120.30
25	BA	61	G	C8-N9-C4	-5.84	104.06	106.40
26	BB	95	A	C5'-C4'-O4'	5.84	116.10	109.10
26	BB	295	G	N1-C2-N2	5.84	121.45	116.20
26	BB	345	A	N3-C4-C5	-5.84	122.72	126.80
26	BB	589	U	N1-C1'-C2'	-5.84	105.58	112.00
26	BB	892	A	C6-N1-C2	5.84	122.10	118.60
26	BB	1985	C	O4'-C1'-N1	5.84	112.87	108.20
26	BB	1994	C	C2-N3-C4	-5.84	116.98	119.90
26	BB	2276	G	C3'-C2'-C1'	5.84	106.17	101.50
26	BB	2376	A	C6-N1-C2	-5.84	115.10	118.60
36	BL	4	PHE	CG-CD2-CE2	-5.84	114.38	120.80
2	AB	23	A	C1'-O4'-C4'	-5.83	105.23	109.90
26	BB	24	G	C5'-C4'-C3'	-5.83	106.66	116.00
26	BB	691	C	N3-C4-N4	5.83	122.08	118.00
26	BB	929	U	C3'-C2'-C1'	-5.83	96.83	101.50
26	BB	1042	G	C5'-C4'-O4'	5.83	116.10	109.10
26	BB	1103	A	C8-N9-C4	5.83	108.13	105.80
26	BB	1664	A	C2-N3-C4	5.83	113.52	110.60
26	BB	1801	A	C5-C6-N1	5.83	120.62	117.70
1	AA	104	G	C6-N1-C2	-5.83	121.60	125.10
1	AA	277	C	P-O3'-C3'	5.83	126.70	119.70
1	AA	660	C	N3-C4-N4	5.83	122.08	118.00
1	AA	1222	G	N9-C4-C5	5.83	107.73	105.40
2	AB	71	C	C5'-C4'-C3'	-5.83	106.67	116.00
25	BA	116	G	N1-C2-N2	5.83	121.45	116.20
26	BB	47	C	C3'-C2'-C1'	-5.83	96.83	101.50
26	BB	197	A	C4-C5-N7	5.83	113.62	110.70
26	BB	320	A	N1-C2-N3	-5.83	126.38	129.30
26	BB	1082	U	P-O3'-C3'	5.83	126.70	119.70
1	AA	107	G	C3'-C2'-C1'	-5.83	96.83	101.50
1	AA	446	G	O4'-C1'-N9	5.83	112.87	108.20
1	AA	588	G	N1-C6-O6	5.83	123.40	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	620	C	N3-C4-C5	-5.83	119.57	121.90
1	AA	1213	A	N1-C2-N3	-5.83	126.38	129.30
1	AA	1425	U	N1-C2-O2	-5.83	118.72	122.80
26	BB	77	G	N3-C4-C5	-5.83	125.68	128.60
26	BB	530	G	C6-N1-C2	-5.83	121.60	125.10
26	BB	1381	G	N9-C1'-C2'	-5.83	105.59	112.00
26	BB	1789	A	C5-C6-N1	-5.83	114.78	117.70
26	BB	2166	U	C2-N3-C4	-5.83	123.50	127.00
26	BB	2476	A	N7-C8-N9	-5.83	110.88	113.80
26	BB	2711	A	C4-C5-C6	-5.83	114.08	117.00
26	BB	2852	G	C4-C5-N7	-5.83	108.47	110.80
26	BB	2886	A	N9-C4-C5	5.83	108.13	105.80
43	BS	57	ARG	NE-CZ-NH1	5.83	123.22	120.30
1	AA	805	C	C3'-C2'-C1'	5.83	106.16	101.50
25	BA	81	G	C5'-C4'-C3'	-5.83	106.67	116.00
26	BB	516	C	N3-C2-O2	-5.83	117.82	121.90
26	BB	675	A	N9-C4-C5	5.83	108.13	105.80
26	BB	681	G	O4'-C1'-N9	5.83	112.86	108.20
26	BB	875	G	C5-N7-C8	-5.83	101.39	104.30
26	BB	2454	G	C6-N1-C2	-5.83	121.60	125.10
26	BB	2793	C	N1-C2-O2	5.83	122.40	118.90
1	AA	376	G	C4-C5-N7	-5.83	108.47	110.80
1	AA	572	A	C6-N1-C2	5.83	122.10	118.60
1	AA	929	G	N3-C2-N2	-5.83	115.82	119.90
1	AA	1302	C	C4-C5-C6	5.83	120.31	117.40
10	AJ	125	ASP	CB-CG-OD1	5.83	123.55	118.30
26	BB	92	U	C4'-C3'-C2'	-5.83	96.77	102.60
26	BB	114	U	N1-C1'-C2'	5.83	121.58	114.00
26	BB	189	G	C8-N9-C4	-5.83	104.07	106.40
26	BB	260	G	C6-N1-C2	-5.83	121.60	125.10
26	BB	415	A	C5-C6-N6	-5.83	119.04	123.70
26	BB	752	A	C2-N3-C4	5.83	113.51	110.60
26	BB	933	A	C6-C5-N7	-5.83	128.22	132.30
26	BB	1082	U	C2-N3-C4	-5.83	123.50	127.00
26	BB	1667	G	C1'-O4'-C4'	5.83	114.56	109.90
26	BB	1729	U	C2-N3-C4	-5.83	123.50	127.00
26	BB	1839	G	N1-C2-N3	-5.83	120.40	123.90
26	BB	1873	G	C4-C5-N7	-5.83	108.47	110.80
26	BB	1926	U	N3-C4-O4	5.83	123.48	119.40
26	BB	2147	A	O4'-C4'-C3'	5.83	110.76	106.10
26	BB	2517	C	C5-C4-N4	-5.83	116.12	120.20
26	BB	2565	A	O4'-C4'-C3'	-5.83	98.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	B5	41	ARG	CD-NE-CZ	5.83	131.76	123.60
1	AA	780	A	C5'-C4'-O4'	5.83	116.09	109.10
1	AA	1479	C	C5-C6-N1	-5.83	118.09	121.00
1	AA	1524	C	N1-C2-O2	5.83	122.40	118.90
8	AH	75	LEU	CB-CG-CD2	-5.83	101.09	111.00
25	BA	46	A	C5-C6-N1	5.83	120.61	117.70
25	BA	66	A	C2-N3-C4	5.83	113.51	110.60
26	BB	675	A	O4'-C1'-N9	-5.83	103.54	108.20
26	BB	1088	A	O4'-C1'-C2'	-5.83	99.97	105.80
26	BB	2301	C	C1'-O4'-C4'	-5.83	105.24	109.90
1	AA	119	A	O4'-C1'-N9	5.83	112.86	108.20
1	AA	350	G	C8-N9-C4	-5.83	104.07	106.40
1	AA	786	G	C1'-O4'-C4'	5.83	114.56	109.90
1	AA	926	G	C4'-C3'-O3'	5.83	124.65	113.00
1	AA	1203	C	C4'-C3'-C2'	-5.83	96.78	102.60
26	BB	314	C	C2-N3-C4	5.83	122.81	119.90
26	BB	1312	U	C5-C6-N1	-5.83	119.79	122.70
26	BB	1384	A	C2-N3-C4	5.83	113.51	110.60
26	BB	1870	C	C3'-C2'-C1'	5.83	106.16	101.50
26	BB	2256	G	N9-C4-C5	5.83	107.73	105.40
26	BB	2434	A	N7-C8-N9	5.83	116.71	113.80
41	BQ	100	HIS	CA-CB-CG	5.83	123.50	113.60
1	AA	796	C	N3-C4-N4	5.82	122.08	118.00
1	AA	850	U	N3-C4-O4	5.82	123.48	119.40
1	AA	890	G	C4-C5-N7	5.82	113.13	110.80
1	AA	1156	G	O4'-C1'-C2'	5.82	112.84	107.60
16	AP	19	THR	CA-CB-CG2	5.82	120.55	112.40
26	BB	774	G	P-O3'-C3'	5.82	126.69	119.70
26	BB	2275	C	C2-N3-C4	-5.82	116.99	119.90
26	BB	2650	U	C2-N3-C4	-5.82	123.51	127.00
26	BB	2655	G	C6-C5-N7	-5.82	126.91	130.40
47	BW	94	PHE	CB-CG-CD2	5.82	124.88	120.80
1	AA	682	G	N7-C8-N9	5.82	116.01	113.10
4	AD	4	G	O4'-C1'-N9	5.82	112.86	108.20
26	BB	539	G	C6-C5-N7	5.82	133.89	130.40
26	BB	1041	G	C4'-C3'-C2'	-5.82	96.78	102.60
26	BB	2144	G	N9-C4-C5	5.82	107.73	105.40
26	BB	2277	G	C5-N7-C8	-5.82	101.39	104.30
26	BB	2805	C	C5'-C4'-O4'	5.82	116.09	109.10
1	AA	362	G	O4'-C1'-N9	5.82	112.86	108.20
1	AA	406	G	C2-N3-C4	5.82	114.81	111.90
1	AA	1014	A	C6-C5-N7	5.82	136.38	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1125	U	C5-C6-N1	5.82	125.61	122.70
1	AA	1270	G	C4-C5-N7	-5.82	108.47	110.80
1	AA	1301	U	C3'-C2'-C1'	-5.82	96.84	101.50
19	AS	56	ARG	NE-CZ-NH1	5.82	123.21	120.30
20	AT	75	VAL	CB-CA-C	5.82	122.46	111.40
25	BA	67	G	N1-C6-O6	5.82	123.39	119.90
26	BB	144	A	C5-C6-N1	-5.82	114.79	117.70
26	BB	290	U	O4'-C1'-N1	5.82	112.86	108.20
26	BB	474	G	O4'-C1'-N9	5.82	112.86	108.20
26	BB	587	C	O4'-C1'-C2'	-5.82	99.98	105.80
26	BB	727	A	C5-C6-N1	-5.82	114.79	117.70
26	BB	1116	G	C4'-C3'-C2'	-5.82	96.78	102.60
26	BB	1177	G	C5-C6-N1	5.82	114.41	111.50
26	BB	2569	G	C1'-O4'-C4'	-5.82	105.24	109.90
26	BB	2625	G	C1'-O4'-C4'	-5.82	105.24	109.90
26	BB	2718	G	C2-N3-C4	5.82	114.81	111.90
26	BB	2732	G	N1-C6-O6	-5.82	116.41	119.90
36	BL	42	ALA	N-CA-CB	-5.82	101.95	110.10
1	AA	45	G	O4'-C1'-N9	5.82	112.86	108.20
1	AA	506	G	C6-N1-C2	-5.82	121.61	125.10
1	AA	764	C	N1-C1'-C2'	-5.82	105.60	112.00
1	AA	1254	A	C4-C5-C6	5.82	119.91	117.00
12	AL	86	LEU	CB-CG-CD2	5.82	120.89	111.00
26	BB	857	G	C5'-C4'-O4'	5.82	116.08	109.10
26	BB	1142	A	O3'-P-O5'	5.82	115.06	104.00
26	BB	1203	U	C2-N3-C4	-5.82	123.51	127.00
26	BB	2202	U	C5'-C4'-C3'	-5.82	106.69	116.00
26	BB	2344	U	O3'-P-O5'	5.82	115.06	104.00
26	BB	2489	U	O4'-C4'-C3'	5.82	110.75	106.10
1	AA	15	G	C8-N9-C4	5.82	108.73	106.40
1	AA	441	A	N1-C6-N6	5.82	122.09	118.60
1	AA	523	A	C6-N1-C2	-5.82	115.11	118.60
1	AA	548	G	C5-C6-N1	-5.82	108.59	111.50
1	AA	664	G	C2-N3-C4	-5.82	108.99	111.90
19	AS	5	ARG	NE-CZ-NH2	-5.82	117.39	120.30
26	BB	234	U	C2-N3-C4	-5.82	123.51	127.00
26	BB	300	A	N9-C4-C5	-5.82	103.47	105.80
26	BB	702	U	P-O3'-C3'	5.82	126.68	119.70
26	BB	1128	G	N9-C4-C5	5.82	107.73	105.40
26	BB	1325	U	C6-N1-C2	-5.82	117.51	121.00
26	BB	1409	U	C5-C4-O4	-5.82	122.41	125.90
26	BB	1482	G	N3-C4-C5	-5.82	125.69	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1586	A	C5-C6-N1	-5.82	114.79	117.70
26	BB	2319	G	N3-C4-C5	-5.82	125.69	128.60
26	BB	2320	U	C1'-O4'-C4'	-5.82	105.25	109.90
26	BB	2380	C	O4'-C4'-C3'	-5.82	98.18	104.00
26	BB	2543	G	C5-C6-O6	5.82	132.09	128.60
26	BB	2557	G	C4'-C3'-C2'	-5.82	96.78	102.60
26	BB	2880	C	C5-C6-N1	5.82	123.91	121.00
39	BO	59	ARG	CD-NE-CZ	5.82	131.74	123.60
43	BS	100	PHE	CB-CG-CD2	-5.82	116.73	120.80
44	BT	53	PHE	CB-CG-CD1	-5.82	116.73	120.80
1	AA	245	U	C4'-C3'-C2'	-5.82	96.78	102.60
1	AA	583	A	N1-C2-N3	5.82	132.21	129.30
1	AA	676	A	C1'-O4'-C4'	5.82	114.55	109.90
1	AA	715	A	C6-N1-C2	-5.82	115.11	118.60
1	AA	1481	U	P-O3'-C3'	5.82	126.68	119.70
3	AC	37	G	N1-C6-O6	5.82	123.39	119.90
26	BB	129	C	N1-C1'-C2'	-5.82	105.60	112.00
26	BB	301	G	P-O3'-C3'	5.82	126.68	119.70
26	BB	760	G	N7-C8-N9	5.82	116.01	113.10
26	BB	1998	A	C4'-C3'-C2'	-5.82	96.78	102.60
26	BB	2098	U	C5'-C4'-O4'	5.82	116.08	109.10
26	BB	2241	A	N1-C2-N3	-5.82	126.39	129.30
26	BB	2269	G	N9-C1'-C2'	-5.82	105.60	112.00
26	BB	2777	G	P-O3'-C3'	5.82	126.68	119.70
26	BB	2838	G	C5-N7-C8	5.82	107.21	104.30
47	BW	33	VAL	CA-CB-CG2	5.82	119.62	110.90
1	AA	164	G	N1-C2-N3	-5.81	120.41	123.90
1	AA	180	U	C5'-C4'-O4'	5.81	116.08	109.10
1	AA	250	A	N7-C8-N9	5.81	116.71	113.80
1	AA	1002	G	C5-C6-N1	5.81	114.41	111.50
1	AA	1404	C	N3-C4-C5	-5.81	119.57	121.90
2	AB	25	C	C4-C5-C6	-5.81	114.49	117.40
4	AD	53	G	O4'-C1'-N9	5.81	112.85	108.20
26	BB	97	C	O3'-P-O5'	5.81	115.05	104.00
26	BB	2676	C	P-O5'-C5'	5.81	130.20	120.90
1	AA	212	G	C2-N3-C4	5.81	114.81	111.90
1	AA	438	U	N3-C2-O2	5.81	126.27	122.20
1	AA	972	C	C6-N1-C1'	5.81	127.77	120.80
1	AA	1011	C	C5'-C4'-O4'	5.81	116.08	109.10
1	AA	1021	A	N3-C4-N9	-5.81	122.75	127.40
1	AA	1194	U	N1-C2-N3	5.81	118.39	114.90
1	AA	1312	G	C4'-C3'-C2'	-5.81	96.79	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	37	U	O4'-C1'-N1	5.81	112.85	108.20
23	AW	35	TYR	CB-CG-CD2	-5.81	117.51	121.00
25	BA	113	C	O4'-C1'-N1	5.81	112.85	108.20
26	BB	45	G	N7-C8-N9	-5.81	110.19	113.10
26	BB	205	G	O4'-C1'-N9	5.81	112.85	108.20
26	BB	1838	C	C5-C4-N4	-5.81	116.13	120.20
26	BB	2778	A	N9-C4-C5	-5.81	103.47	105.80
26	BB	2852	G	C2'-C3'-O3'	5.81	123.00	113.70
26	BB	2873	A	C6-N1-C2	-5.81	115.11	118.60
37	BM	8	LEU	O-C-N	-5.81	113.40	122.70
1	AA	281	G	C5'-C4'-O4'	5.81	116.07	109.10
1	AA	1003	G	O4'-C1'-N9	-5.81	103.55	108.20
26	BB	325	G	O4'-C1'-C2'	5.81	112.83	107.60
26	BB	502	A	N9-C1'-C2'	-5.81	105.61	112.00
26	BB	917	A	C4-C5-N7	-5.81	107.80	110.70
26	BB	1407	G	C4-C5-N7	-5.81	108.48	110.80
26	BB	1791	A	C6-C5-N7	5.81	136.37	132.30
26	BB	1959	G	N9-C1'-C2'	-5.81	105.61	112.00
26	BB	1964	G	N3-C2-N2	-5.81	115.83	119.90
26	BB	2124	G	C5-N7-C8	5.81	107.20	104.30
26	BB	2796	U	C4-C5-C6	5.81	123.19	119.70
1	AA	6	G	P-O5'-C5'	5.81	130.20	120.90
1	AA	347	G	N3-C4-N9	-5.81	122.52	126.00
1	AA	833	G	N3-C4-N9	5.81	129.49	126.00
1	AA	1530	G	O5'-C5'-C4'	-5.81	100.66	111.70
3	AC	43	U	N3-C4-O4	5.81	123.47	119.40
26	BB	379	G	C4-C5-C6	-5.81	115.31	118.80
26	BB	821	A	C5'-C4'-C3'	-5.81	106.70	116.00
26	BB	829	A	O4'-C1'-C2'	-5.81	99.99	105.80
26	BB	1141	U	C5'-C4'-C3'	-5.81	106.71	116.00
26	BB	1628	G	N3-C4-N9	5.81	129.49	126.00
26	BB	1715	G	C5-N7-C8	-5.81	101.39	104.30
26	BB	1946	U	C4-C5-C6	-5.81	116.21	119.70
26	BB	2521	C	O5'-P-OP2	5.81	117.67	110.70
26	BB	2608	G	N3-C2-N2	-5.81	115.83	119.90
26	BB	2691	C	C4'-C3'-C2'	-5.81	96.79	102.60
26	BB	2834	G	N1-C6-O6	-5.81	116.41	119.90
49	BY	50	VAL	CA-CB-CG1	5.81	119.61	110.90
1	AA	243	A	C4'-C3'-C2'	5.81	108.41	102.60
1	AA	564	C	C4-C5-C6	5.81	120.30	117.40
1	AA	874	G	N3-C2-N2	-5.81	115.83	119.90
1	AA	1088	G	C6-N1-C2	-5.81	121.61	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1274	A	C5'-C4'-O4'	5.81	116.07	109.10
26	BB	367	G	C1'-O4'-C4'	5.81	114.55	109.90
26	BB	458	G	C5'-C4'-C3'	-5.81	106.71	116.00
26	BB	1413	A	N1-C2-N3	5.81	132.20	129.30
26	BB	1760	C	N3-C4-C5	-5.81	119.58	121.90
26	BB	1879	C	N1-C2-N3	5.81	123.27	119.20
26	BB	2131	U	N3-C4-O4	5.81	123.47	119.40
26	BB	2350	C	C5-C6-N1	5.81	123.90	121.00
26	BB	2841	C	N3-C4-C5	5.81	124.22	121.90
34	BJ	50	TYR	CG-CD2-CE2	5.81	125.94	121.30
1	AA	800	G	C8-N9-C4	-5.81	104.08	106.40
1	AA	1306	A	C5-N7-C8	-5.81	101.00	103.90
26	BB	263	G	P-O3'-C3'	5.81	126.67	119.70
26	BB	328	U	C5-C4-O4	-5.81	122.42	125.90
26	BB	1182	G	C6-N1-C2	-5.81	121.62	125.10
26	BB	1644	C	N1-C2-O2	5.81	122.38	118.90
26	BB	2031	A	C5-C6-N1	5.81	120.60	117.70
26	BB	2304	G	O4'-C1'-N9	5.81	112.84	108.20
26	BB	2598	A	C4'-C3'-C2'	-5.81	96.79	102.60
1	AA	27	G	C5-N7-C8	5.80	107.20	104.30
1	AA	51	A	N3-C4-C5	-5.80	122.74	126.80
1	AA	251	G	C8-N9-C4	-5.80	104.08	106.40
1	AA	947	G	C2-N3-C4	5.80	114.80	111.90
1	AA	956	U	P-O3'-C3'	5.80	126.67	119.70
1	AA	1003	G	P-O3'-C3'	5.80	126.67	119.70
1	AA	1120	C	C5'-C4'-C3'	-5.80	106.71	116.00
1	AA	1127	G	C8-N9-C1'	5.80	134.55	127.00
1	AA	1157	A	C4-C5-N7	-5.80	107.80	110.70
1	AA	1194	U	C3'-C2'-C1'	5.80	106.14	101.50
1	AA	1311	A	O4'-C1'-N9	5.80	112.84	108.20
26	BB	83	A	N1-C2-N3	5.80	132.20	129.30
26	BB	331	C	O4'-C1'-C2'	5.80	112.83	107.60
26	BB	469	G	C8-N9-C4	-5.80	104.08	106.40
26	BB	682	G	N3-C2-N2	5.80	123.96	119.90
26	BB	1359	A	C1'-O4'-C4'	-5.80	105.26	109.90
26	BB	1382	G	N9-C1'-C2'	-5.80	105.61	112.00
1	AA	1214	C	C6-N1-C1'	5.80	127.76	120.80
1	AA	1397	C	O4'-C1'-N1	-5.80	103.56	108.20
26	BB	1098	A	O5'-P-OP1	-5.80	100.48	105.70
1	AA	553	A	C5-C6-N6	5.80	128.34	123.70
1	AA	843	U	C5'-C4'-C3'	-5.80	106.72	116.00
1	AA	864	A	N1-C6-N6	-5.80	115.12	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1365	G	O4'-C1'-N9	5.80	112.84	108.20
3	AC	23	C	C3'-C2'-C1'	5.80	106.14	101.50
14	AN	104	PHE	CZ-CE2-CD2	-5.80	113.14	120.10
26	BB	136	G	N3-C4-N9	5.80	129.48	126.00
26	BB	489	G	C6-N1-C2	-5.80	121.62	125.10
26	BB	566	U	N1-C2-N3	5.80	118.38	114.90
26	BB	654	A	C5-C6-N1	5.80	120.60	117.70
26	BB	684	G	O4'-C4'-C3'	5.80	110.74	106.10
26	BB	851	C	C5-C4-N4	-5.80	116.14	120.20
26	BB	1084	A	C5-C6-N1	-5.80	114.80	117.70
26	BB	1108	U	N3-C4-O4	-5.80	115.34	119.40
26	BB	1275	A	N7-C8-N9	-5.80	110.90	113.80
26	BB	1354	A	N9-C1'-C2'	-5.80	105.62	112.00
26	BB	1652	A	N9-C4-C5	5.80	108.12	105.80
26	BB	1859	U	O4'-C1'-N1	5.80	112.84	108.20
26	BB	2780	G	N3-C4-C5	-5.80	125.70	128.60
42	BR	88	ARG	NE-CZ-NH2	5.80	123.20	120.30
1	AA	320	A	C3'-C2'-C1'	5.80	106.14	101.50
1	AA	654	G	C2-N3-C4	-5.80	109.00	111.90
25	BA	20	G	O4'-C1'-N9	5.80	112.84	108.20
26	BB	60	G	C6-C5-N7	5.80	133.88	130.40
26	BB	123	G	N3-C4-C5	5.80	131.50	128.60
26	BB	935	C	C4-C5-C6	-5.80	114.50	117.40
26	BB	2418	A	C5-N7-C8	5.80	106.80	103.90
26	BB	2555	U	C2-N3-C4	-5.80	123.52	127.00
1	AA	417	G	N1-C2-N2	5.80	121.42	116.20
25	BA	46	A	C4-C5-N7	5.80	113.60	110.70
26	BB	6	A	C5-C6-N1	-5.80	114.80	117.70
26	BB	1361	G	O4'-C1'-N9	5.80	112.84	108.20
26	BB	1429	G	N1-C6-O6	5.80	123.38	119.90
26	BB	1726	C	C6-N1-C2	-5.80	117.98	120.30
26	BB	1912	A	C5'-C4'-C3'	-5.80	106.72	116.00
26	BB	2223	G	C5-N7-C8	5.80	107.20	104.30
34	BJ	30	ARG	CB-CA-C	5.80	122.00	110.40
1	AA	541	G	N1-C2-N2	-5.80	110.98	116.20
1	AA	681	A	N1-C6-N6	-5.80	115.12	118.60
1	AA	737	C	C5'-C4'-C3'	-5.80	106.72	116.00
1	AA	1139	G	C1'-O4'-C4'	5.80	114.54	109.90
1	AA	1316	G	C5-N7-C8	-5.80	101.40	104.30
4	AD	24	C	C6-N1-C2	5.80	122.62	120.30
26	BB	687	C	N1-C2-N3	5.80	123.26	119.20
26	BB	810	U	N1-C2-O2	-5.80	118.74	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1844	C	O4'-C1'-C2'	-5.80	100.00	105.80
26	BB	1865	U	N3-C4-C5	-5.80	111.12	114.60
26	BB	2012	G	C4-C5-N7	-5.80	108.48	110.80
26	BB	2551	C	N3-C4-N4	5.80	122.06	118.00
1	AA	115	G	C8-N9-C4	-5.79	104.08	106.40
1	AA	213	G	C5-C6-N1	5.79	114.40	111.50
1	AA	1153	G	O3'-P-O5'	5.79	115.01	104.00
1	AA	1221	G	N3-C4-C5	-5.79	125.70	128.60
3	AC	33	A	C1'-O4'-C4'	-5.79	105.26	109.90
26	BB	1996	C	N3-C2-O2	-5.79	117.84	121.90
26	BB	2047	C	O4'-C4'-C3'	5.79	110.74	106.10
1	AA	313	A	C5-N7-C8	-5.79	101.00	103.90
1	AA	731	G	C5-N7-C8	5.79	107.20	104.30
1	AA	1002	G	C4-C5-N7	-5.79	108.48	110.80
1	AA	1196	A	N1-C6-N6	-5.79	115.12	118.60
1	AA	1354	U	N3-C2-O2	-5.79	118.14	122.20
1	AA	1458	G	N1-C6-O6	-5.79	116.42	119.90
2	AB	67	G	C5'-C4'-O4'	5.79	116.05	109.10
25	BA	22	U	N3-C2-O2	-5.79	118.14	122.20
26	BB	1607	C	C5-C4-N4	-5.79	116.14	120.20
26	BB	2435	A	C4'-C3'-C2'	-5.79	96.81	102.60
26	BB	2528	U	N3-C4-C5	-5.79	111.12	114.60
26	BB	2595	G	N7-C8-N9	5.79	116.00	113.10
58	B7	5	ALA	N-CA-CB	-5.79	101.99	110.10
1	AA	573	A	O4'-C1'-C2'	5.79	112.81	107.60
1	AA	1467	C	N3-C2-O2	-5.79	117.85	121.90
25	BA	28	C	C6-N1-C2	-5.79	117.98	120.30
26	BB	242	G	C8-N9-C4	-5.79	104.08	106.40
26	BB	399	U	C6-N1-C2	5.79	124.47	121.00
26	BB	455	C	C6-N1-C2	-5.79	117.98	120.30
26	BB	657	U	P-O3'-C3'	5.79	126.65	119.70
26	BB	1502	A	O4'-C1'-N9	5.79	112.83	108.20
26	BB	1796	U	N3-C2-O2	-5.79	118.15	122.20
26	BB	1922	G	C1'-O4'-C4'	-5.79	105.27	109.90
26	BB	1938	A	N9-C4-C5	5.79	108.12	105.80
26	BB	1975	G	N3-C4-N9	5.79	129.47	126.00
26	BB	2216	G	N1-C2-N3	5.79	127.38	123.90
1	AA	38	G	N1-C6-O6	5.79	123.37	119.90
1	AA	268	U	O4'-C1'-N1	5.79	112.83	108.20
1	AA	1453	G	O4'-C4'-C3'	5.79	110.73	106.10
4	AD	32	G	C6-N1-C2	-5.79	121.63	125.10
25	BA	7	G	C5-C6-N1	5.79	114.39	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	11	C	C5-C6-N1	5.79	123.89	121.00
26	BB	48	G	N1-C2-N3	-5.79	120.43	123.90
26	BB	575	A	N7-C8-N9	-5.79	110.91	113.80
26	BB	792	A	C6-C5-N7	5.79	136.35	132.30
26	BB	1209	U	C5-C4-O4	5.79	129.37	125.90
26	BB	1213	A	C6-N1-C2	5.79	122.07	118.60
26	BB	1289	C	O4'-C1'-N1	5.79	112.83	108.20
26	BB	1351	C	C1'-O4'-C4'	-5.79	105.27	109.90
26	BB	1660	G	O4'-C1'-N9	5.79	112.83	108.20
26	BB	1690	A	C6-N1-C2	-5.79	115.13	118.60
26	BB	1697	G	N1-C6-O6	5.79	123.37	119.90
26	BB	2237	G	C8-N9-C4	-5.79	104.08	106.40
26	BB	2750	A	C4-C5-C6	-5.79	114.11	117.00
1	AA	12	U	C5-C6-N1	-5.79	119.81	122.70
1	AA	176	C	C2-N3-C4	5.79	122.79	119.90
1	AA	205	A	C5-C6-N1	-5.79	114.81	117.70
1	AA	492	C	C1'-O4'-C4'	-5.79	105.27	109.90
1	AA	760	G	N1-C2-N2	5.79	121.41	116.20
1	AA	1055	A	C8-N9-C4	-5.79	103.48	105.80
1	AA	1101	A	C8-N9-C4	-5.79	103.48	105.80
1	AA	1116	U	C5-C6-N1	5.79	125.59	122.70
1	AA	1453	G	C8-N9-C4	-5.79	104.08	106.40
15	AO	8	ARG	NE-CZ-NH2	-5.79	117.41	120.30
25	BA	2	G	C6-C5-N7	-5.79	126.93	130.40
25	BA	82	U	C6-N1-C2	5.79	124.47	121.00
26	BB	198	C	C2-N3-C4	-5.79	117.01	119.90
26	BB	711	G	C4-C5-N7	-5.79	108.48	110.80
26	BB	776	G	N3-C2-N2	5.79	123.95	119.90
26	BB	1134	A	N1-C2-N3	-5.79	126.41	129.30
26	BB	1715	G	N9-C1'-C2'	5.79	121.52	114.00
26	BB	2231	U	O4'-C1'-N1	5.79	112.83	108.20
26	BB	2337	G	C2-N3-C4	-5.79	109.01	111.90
26	BB	2492	U	N1-C2-O2	-5.79	118.75	122.80
1	AA	419	C	C4-C5-C6	5.79	120.29	117.40
1	AA	574	A	C3'-C2'-C1'	-5.79	96.87	101.50
1	AA	878	A	N7-C8-N9	5.79	116.69	113.80
1	AA	1506	U	N1-C2-N3	5.79	118.37	114.90
7	AG	16	THR	CA-CB-CG2	5.79	120.50	112.40
26	BB	699	A	C2-N3-C4	-5.79	107.71	110.60
26	BB	1324	G	C2-N3-C4	5.79	114.79	111.90
1	AA	211	G	C5-C6-O6	-5.79	125.13	128.60
1	AA	488	C	N1-C1'-C2'	-5.79	105.64	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	506	G	N1-C2-N3	-5.79	120.43	123.90
1	AA	833	G	O4'-C1'-N9	5.79	112.83	108.20
1	AA	994	A	C2-N3-C4	-5.79	107.71	110.60
1	AA	1392	G	C5-C6-O6	5.79	132.07	128.60
13	AM	31	ARG	NE-CZ-NH1	5.79	123.19	120.30
25	BA	84	G	C2-N3-C4	5.79	114.79	111.90
26	BB	37	C	C5'-C4'-O4'	5.79	116.04	109.10
26	BB	356	G	N3-C4-C5	-5.79	125.71	128.60
26	BB	648	G	N3-C4-C5	5.79	131.49	128.60
26	BB	684	G	C6-C5-N7	5.79	133.87	130.40
26	BB	733	G	N3-C2-N2	5.79	123.95	119.90
26	BB	1162	G	N1-C2-N2	5.79	121.41	116.20
26	BB	1214	A	N9-C4-C5	5.79	108.11	105.80
26	BB	1282	U	N1-C2-O2	5.79	126.85	122.80
26	BB	1659	G	N3-C2-N2	5.79	123.95	119.90
26	BB	2278	A	C4-C5-C6	-5.79	114.11	117.00
26	BB	2749	A	C1'-O4'-C4'	5.79	114.53	109.90
26	BB	2897	U	N3-C4-O4	5.79	123.45	119.40
1	AA	1259	C	C5'-C4'-C3'	-5.78	106.75	116.00
11	AK	79	ARG	CD-NE-CZ	5.78	131.70	123.60
26	BB	185	G	C8-N9-C4	5.78	108.71	106.40
26	BB	214	G	C5-N7-C8	-5.78	101.41	104.30
26	BB	230	G	N1-C2-N3	-5.78	120.43	123.90
26	BB	256	A	N1-C6-N6	-5.78	115.13	118.60
26	BB	848	C	N1-C1'-C2'	-5.78	105.64	112.00
26	BB	994	C	N1-C1'-C2'	-5.78	105.64	112.00
26	BB	1245	G	C4-C5-N7	5.78	113.11	110.80
26	BB	2095	A	C2-N3-C4	5.78	113.49	110.60
26	BB	2164	C	C5'-C4'-O4'	5.78	116.04	109.10
26	BB	2220	U	C5-C4-O4	-5.78	122.43	125.90
26	BB	2747	G	N3-C4-C5	-5.78	125.71	128.60
50	BZ	9	LYS	CB-CA-C	5.78	121.97	110.40
1	AA	16	A	N9-C4-C5	5.78	108.11	105.80
1	AA	832	G	C5'-C4'-O4'	5.78	116.04	109.10
1	AA	859	G	C4-C5-N7	5.78	113.11	110.80
1	AA	986	U	N1-C2-N3	5.78	118.37	114.90
25	BA	49	C	N3-C4-N4	-5.78	113.95	118.00
26	BB	218	A	C6-N1-C2	-5.78	115.13	118.60
26	BB	358	U	C4'-C3'-C2'	-5.78	96.82	102.60
26	BB	382	A	C5-C6-N6	5.78	128.33	123.70
26	BB	1422	G	N7-C8-N9	5.78	115.99	113.10
30	BF	25	GLU	N-CA-CB	5.78	121.01	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	263	A	N7-C8-N9	5.78	116.69	113.80
1	AA	491	G	N7-C8-N9	5.78	115.99	113.10
1	AA	696	A	O4'-C1'-N9	5.78	112.82	108.20
1	AA	960	U	O4'-C1'-N1	5.78	112.83	108.20
1	AA	1320	C	C5-C6-N1	5.78	123.89	121.00
1	AA	1527	U	N3-C4-O4	-5.78	115.35	119.40
26	BB	20	C	C3'-C2'-C1'	-5.78	96.88	101.50
26	BB	20	C	C5-C6-N1	-5.78	118.11	121.00
26	BB	258	G	N1-C2-N3	-5.78	120.43	123.90
26	BB	327	G	C5-N7-C8	5.78	107.19	104.30
26	BB	506	G	O4'-C1'-N9	5.78	112.82	108.20
26	BB	1103	A	C5-C6-N6	5.78	128.32	123.70
26	BB	1269	A	N9-C4-C5	-5.78	103.49	105.80
26	BB	1713	A	N1-C2-N3	-5.78	126.41	129.30
26	BB	2110	G	C2-N3-C4	5.78	114.79	111.90
26	BB	2346	A	C4-C5-C6	-5.78	114.11	117.00
26	BB	2352	A	C5-C6-N6	-5.78	119.08	123.70
26	BB	2422	C	N3-C2-O2	-5.78	117.85	121.90
1	AA	269	C	P-O3'-C3'	5.78	126.63	119.70
1	AA	690	G	O5'-C5'-C4'	-5.78	100.72	111.70
1	AA	822	U	N3-C2-O2	-5.78	118.16	122.20
1	AA	1355	G	C8-N9-C1'	5.78	134.51	127.00
1	AA	1472	U	N1-C1'-C2'	-5.78	105.64	112.00
1	AA	1473	G	O4'-C1'-N9	-5.78	103.58	108.20
2	AB	12	U	N3-C4-O4	5.78	123.44	119.40
26	BB	830	G	N1-C2-N2	-5.78	111.00	116.20
26	BB	1781	U	N3-C2-O2	-5.78	118.16	122.20
26	BB	2064	C	C4'-C3'-C2'	-5.78	96.82	102.60
26	BB	2479	U	C5-C6-N1	-5.78	119.81	122.70
27	BC	223	ALA	CB-CA-C	5.78	118.77	110.10
26	BB	213	A	C5-C6-N6	-5.78	119.08	123.70
26	BB	443	A	N7-C8-N9	5.78	116.69	113.80
26	BB	758	C	N3-C2-O2	-5.78	117.86	121.90
26	BB	883	G	O4'-C1'-N9	-5.78	103.58	108.20
26	BB	920	A	N7-C8-N9	5.78	116.69	113.80
26	BB	1127	A	C5-C6-N6	-5.78	119.08	123.70
26	BB	1312	U	C4-C5-C6	5.78	123.17	119.70
26	BB	1422	G	C8-N9-C4	-5.78	104.09	106.40
26	BB	1807	G	N1-C2-N2	-5.78	111.00	116.20
26	BB	2202	U	C6-N1-C2	-5.78	117.53	121.00
26	BB	2716	C	O4'-C1'-C2'	-5.78	100.02	105.80
1	AA	213	G	C6-N1-C2	-5.78	121.64	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	266	G	C8-N9-C4	5.78	108.71	106.40
1	AA	424	G	C3'-C2'-C1'	5.78	106.12	101.50
1	AA	439	U	C2-N3-C4	-5.78	123.53	127.00
1	AA	732	C	N1-C2-N3	-5.78	115.16	119.20
1	AA	1190	G	C5-C6-N1	5.78	114.39	111.50
1	AA	1251	A	O4'-C1'-N9	5.78	112.82	108.20
25	BA	79	G	N3-C4-N9	5.78	129.47	126.00
26	BB	151	C	C4'-C3'-C2'	-5.78	96.82	102.60
26	BB	200	U	C5'-C4'-O4'	5.78	116.03	109.10
26	BB	238	C	N1-C1'-C2'	-5.78	105.65	112.00
26	BB	586	A	O4'-C1'-N9	-5.78	103.58	108.20
26	BB	718	A	O3'-P-O5'	-5.78	93.03	104.00
26	BB	934	U	N1-C2-N3	5.78	118.37	114.90
26	BB	1532	A	C5-C6-N1	5.78	120.59	117.70
26	BB	1652	A	C4-C5-C6	-5.78	114.11	117.00
26	BB	1821	A	N1-C2-N3	-5.78	126.41	129.30
26	BB	1885	A	C5-C6-N1	-5.78	114.81	117.70
26	BB	1887	C	N1-C2-O2	5.78	122.37	118.90
26	BB	2221	G	N9-C4-C5	-5.78	103.09	105.40
26	BB	2428	G	C4-C5-N7	-5.78	108.49	110.80
1	AA	1110	A	C5-N7-C8	-5.77	101.01	103.90
1	AA	1184	G	N3-C2-N2	-5.77	115.86	119.90
1	AA	1500	A	C5'-C4'-O4'	5.77	116.03	109.10
3	AC	46	C	C4-C5-C6	5.77	120.29	117.40
26	BB	186	G	C6-N1-C2	-5.77	121.64	125.10
26	BB	445	C	N3-C4-N4	5.77	122.04	118.00
26	BB	1275	A	C2-N3-C4	5.77	113.49	110.60
1	AA	71	A	N9-C1'-C2'	-5.77	105.65	112.00
1	AA	809	G	C3'-C2'-C1'	-5.77	96.88	101.50
1	AA	1150	A	OP1-P-OP2	-5.77	110.94	119.60
1	AA	1165	U	C5-C4-O4	-5.77	122.44	125.90
26	BB	1023	U	N1-C2-O2	5.77	126.84	122.80
26	BB	1322	A	P-O3'-C3'	5.77	126.63	119.70
26	BB	1662	U	C1'-O4'-C4'	5.77	114.52	109.90
26	BB	1681	G	C3'-C2'-C1'	-5.77	96.88	101.50
26	BB	1986	C	N1-C2-N3	-5.77	115.16	119.20
26	BB	2107	G	C8-N9-C4	-5.77	104.09	106.40
26	BB	2312	U	O4'-C4'-C3'	5.77	110.72	106.10
26	BB	2784	U	P-O3'-C3'	5.77	126.63	119.70
1	AA	401	C	C3'-C2'-C1'	5.77	106.12	101.50
1	AA	728	A	N1-C2-N3	-5.77	126.42	129.30
1	AA	844	G	N3-C4-N9	5.77	129.46	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1134	G	P-O3'-C3'	5.77	126.62	119.70
8	AH	30	PHE	CB-CG-CD2	5.77	124.84	120.80
26	BB	1722	A	N9-C1'-C2'	5.77	121.50	114.00
26	BB	2405	G	C1'-O4'-C4'	5.77	114.52	109.90
1	AA	139	A	C2-N3-C4	-5.77	107.72	110.60
1	AA	324	G	C6-C5-N7	-5.77	126.94	130.40
1	AA	335	C	C2-N1-C1'	5.77	125.15	118.80
1	AA	474	G	C5-C6-O6	5.77	132.06	128.60
1	AA	528	C	C2'-C3'-O3'	5.77	122.93	113.70
1	AA	594	U	P-O3'-C3'	5.77	126.62	119.70
1	AA	944	G	C2'-C3'-O3'	5.77	122.93	113.70
1	AA	1142	G	C2-N3-C4	5.77	114.78	111.90
2	AB	18	G	C6-N1-C2	-5.77	121.64	125.10
3	AC	13	A	N1-C6-N6	-5.77	115.14	118.60
26	BB	559	G	C5-N7-C8	-5.77	101.42	104.30
26	BB	848	C	C5'-C4'-O4'	5.77	116.02	109.10
26	BB	1234	U	OP2-P-O3'	5.77	117.89	105.20
26	BB	1633	G	C5-C6-O6	-5.77	125.14	128.60
26	BB	2359	C	P-O3'-C3'	5.77	126.62	119.70
26	BB	2410	G	C1'-O4'-C4'	5.77	114.52	109.90
26	BB	2614	A	C5-N7-C8	-5.77	101.02	103.90
26	BB	2661	G	N9-C1'-C2'	-5.77	105.65	112.00
26	BB	2721	A	C4-C5-C6	5.77	119.89	117.00
26	BB	2754	U	C5-C6-N1	-5.77	119.81	122.70
1	AA	120	A	N9-C4-C5	5.77	108.11	105.80
1	AA	330	C	O4'-C1'-N1	5.77	112.81	108.20
1	AA	431	A	C5-C6-N1	5.77	120.58	117.70
1	AA	464	U	C4'-C3'-C2'	-5.77	96.83	102.60
1	AA	491	G	N9-C4-C5	5.77	107.71	105.40
1	AA	503	C	N1-C2-O2	5.77	122.36	118.90
1	AA	1077	G	N1-C6-O6	5.77	123.36	119.90
1	AA	1244	G	C4-C5-N7	-5.77	108.49	110.80
1	AA	1303	C	O4'-C1'-N1	5.77	112.81	108.20
26	BB	10	A	C5-C6-N1	5.77	120.58	117.70
26	BB	240	C	O4'-C1'-C2'	-5.77	100.03	105.80
26	BB	254	G	N1-C2-N3	-5.77	120.44	123.90
26	BB	439	A	N9-C1'-C2'	-5.77	105.66	112.00
26	BB	1007	C	N3-C2-O2	-5.77	117.86	121.90
26	BB	1526	C	O4'-C1'-N1	5.77	112.81	108.20
26	BB	1556	C	C4-C5-C6	-5.77	114.52	117.40
26	BB	1634	A	C8-N9-C4	-5.77	103.49	105.80
26	BB	1847	A	N1-C2-N3	-5.77	126.42	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2893	A	N9-C4-C5	-5.77	103.49	105.80
1	AA	702	A	C8-N9-C4	-5.77	103.49	105.80
26	BB	498	G	C4'-C3'-C2'	-5.77	96.83	102.60
26	BB	933	A	C6-N1-C2	-5.77	115.14	118.60
26	BB	2232	C	N1-C2-N3	-5.77	115.16	119.20
1	AA	426	U	C4-C5-C6	5.76	123.16	119.70
1	AA	707	U	N1-C2-N3	5.76	118.36	114.90
1	AA	1092	A	C8-N9-C4	-5.76	103.50	105.80
2	AB	40	C	N3-C2-O2	-5.76	117.86	121.90
3	AC	30	U	N1-C1'-C2'	5.76	121.49	114.00
25	BA	76	G	N3-C4-C5	-5.76	125.72	128.60
25	BA	87	U	O4'-C1'-N1	5.76	112.81	108.20
26	BB	167	A	C5-C6-N1	-5.76	114.82	117.70
26	BB	940	G	C5'-C4'-C3'	-5.76	106.78	116.00
26	BB	1492	G	C3'-C2'-C1'	-5.76	96.89	101.50
26	BB	1546	G	N3-C2-N2	-5.76	115.86	119.90
26	BB	1588	G	C3'-C2'-C1'	5.76	106.11	101.50
26	BB	2155	U	N3-C2-O2	-5.76	118.17	122.20
26	BB	2219	U	C5-C4-O4	5.76	129.36	125.90
26	BB	2304	G	C5-C6-O6	-5.76	125.14	128.60
26	BB	2389	G	C3'-C2'-C1'	5.76	106.11	101.50
26	BB	2415	G	C5'-C4'-O4'	5.76	116.02	109.10
1	AA	764	C	C3'-C2'-C1'	-5.76	96.89	101.50
1	AA	783	C	N1-C2-N3	-5.76	115.17	119.20
1	AA	830	G	O4'-C1'-C2'	-5.76	100.04	105.80
1	AA	1189	U	N1-C2-O2	-5.76	118.77	122.80
3	AC	46	C	C4'-C3'-C2'	-5.76	96.84	102.60
26	BB	170	U	C1'-O4'-C4'	-5.76	105.29	109.90
26	BB	548	G	C6-N1-C2	-5.76	121.64	125.10
26	BB	1495	A	N1-C2-N3	-5.76	126.42	129.30
26	BB	1701	A	C4'-C3'-C2'	-5.76	96.84	102.60
26	BB	1853	A	C4'-C3'-C2'	-5.76	96.84	102.60
26	BB	2859	G	N7-C8-N9	5.76	115.98	113.10
1	AA	81	A	C5'-C4'-C3'	5.76	125.22	116.00
1	AA	112	G	N3-C4-N9	5.76	129.46	126.00
1	AA	1195	C	N3-C4-C5	-5.76	119.59	121.90
3	AC	38	G	C5-N7-C8	-5.76	101.42	104.30
4	AD	67	C	N3-C4-N4	5.76	122.03	118.00
6	AF	167	TYR	CB-CG-CD1	-5.76	117.54	121.00
26	BB	360	U	C5-C6-N1	-5.76	119.82	122.70
26	BB	405	U	C3'-C2'-C1'	-5.76	96.89	101.50
26	BB	537	G	O4'-C1'-N9	-5.76	103.59	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	699	A	N1-C6-N6	-5.76	115.14	118.60
26	BB	1008	A	O4'-C1'-C2'	-5.76	100.04	105.80
26	BB	2060	A	C6-C5-N7	-5.76	128.27	132.30
26	BB	2541	A	C2'-C3'-O3'	5.76	122.92	113.70
31	BG	173	ASP	CB-CG-OD2	5.76	123.49	118.30
1	AA	539	A	C4'-C3'-C2'	-5.76	96.84	102.60
1	AA	1063	C	P-O3'-C3'	5.76	126.61	119.70
1	AA	1154	G	O4'-C1'-N9	5.76	112.81	108.20
1	AA	1297	G	C6-N1-C2	-5.76	121.64	125.10
1	AA	1348	U	C4'-C3'-C2'	-5.76	96.84	102.60
26	BB	15	G	P-O3'-C3'	5.76	126.61	119.70
26	BB	486	C	C3'-C2'-C1'	-5.76	96.89	101.50
26	BB	550	C	C6-N1-C2	5.76	122.60	120.30
26	BB	579	G	N1-C2-N3	5.76	127.36	123.90
26	BB	685	A	C3'-C2'-C1'	5.76	106.11	101.50
26	BB	700	G	C5-N7-C8	5.76	107.18	104.30
26	BB	1527	G	N1-C6-O6	-5.76	116.44	119.90
26	BB	1548	A	C6-C5-N7	5.76	136.33	132.30
26	BB	1627	G	N3-C2-N2	-5.76	115.87	119.90
26	BB	1632	A	C4-C5-N7	-5.76	107.82	110.70
26	BB	2681	C	C5'-C4'-C3'	-5.76	106.78	116.00
26	BB	2869	G	N1-C6-O6	5.76	123.36	119.90
1	AA	373	A	O4'-C4'-C3'	-5.76	98.24	104.00
1	AA	379	C	N1-C2-N3	5.76	123.23	119.20
1	AA	1177	G	N3-C4-N9	5.76	129.46	126.00
1	AA	1523	G	N3-C4-C5	-5.76	125.72	128.60
26	BB	568	U	C6-N1-C2	-5.76	117.55	121.00
26	BB	1769	U	C4'-C3'-C2'	-5.76	96.84	102.60
26	BB	1786	A	N1-C6-N6	-5.76	115.14	118.60
1	AA	83	C	C3'-C2'-C1'	5.76	106.11	101.50
1	AA	182	A	C5'-C4'-C3'	-5.76	106.79	116.00
1	AA	509	A	O4'-C4'-C3'	-5.76	98.24	104.00
1	AA	1139	G	C5'-C4'-O4'	5.76	116.01	109.10
1	AA	1231	G	O4'-C4'-C3'	5.76	110.70	106.10
1	AA	1368	A	C2-N3-C4	-5.76	107.72	110.60
26	BB	337	C	C5'-C4'-C3'	5.76	125.21	116.00
26	BB	389	G	O4'-C1'-N9	5.76	112.81	108.20
26	BB	422	A	N7-C8-N9	-5.76	110.92	113.80
26	BB	870	U	N3-C4-O4	5.76	123.43	119.40
26	BB	964	C	C3'-C2'-C1'	-5.76	96.89	101.50
26	BB	1202	G	OP2-P-O3'	5.76	117.86	105.20
26	BB	1384	A	C4'-C3'-C2'	5.76	108.36	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1721	G	N1-C6-O6	-5.76	116.45	119.90
26	BB	1837	C	C5-C4-N4	5.76	124.23	120.20
26	BB	2017	U	N3-C4-C5	-5.76	111.15	114.60
26	BB	2127	G	C4-C5-N7	-5.76	108.50	110.80
26	BB	2274	A	C4-C5-N7	-5.76	107.82	110.70
26	BB	2428	G	N1-C6-O6	-5.76	116.45	119.90
26	BB	2494	G	N7-C8-N9	5.76	115.98	113.10
26	BB	2635	A	C4-C5-C6	-5.76	114.12	117.00
34	BJ	93	ARG	NE-CZ-NH1	-5.76	117.42	120.30
1	AA	354	G	C5-N7-C8	-5.75	101.42	104.30
1	AA	580	C	N1-C1'-C2'	-5.75	105.67	112.00
1	AA	987	G	N3-C4-C5	-5.75	125.72	128.60
1	AA	1187	G	N7-C8-N9	5.75	115.98	113.10
25	BA	40	U	C2-N1-C1'	5.75	124.61	117.70
26	BB	1483	G	P-O3'-C3'	5.75	126.61	119.70
26	BB	1554	U	C4'-C3'-C2'	5.75	108.36	102.60
26	BB	1718	G	C5-N7-C8	-5.75	101.42	104.30
48	BX	93	ARG	NH1-CZ-NH2	-5.75	113.07	119.40
1	AA	11	G	C6-C5-N7	-5.75	126.95	130.40
1	AA	38	G	C4-C5-N7	-5.75	108.50	110.80
1	AA	873	A	N1-C6-N6	-5.75	115.15	118.60
1	AA	1262	C	O4'-C1'-N1	5.75	112.80	108.20
1	AA	1284	C	N1-C2-O2	5.75	122.35	118.90
2	AB	72	U	C2-N3-C4	-5.75	123.55	127.00
26	BB	112	U	N1-C2-N3	5.75	118.35	114.90
26	BB	123	G	C2-N3-C4	-5.75	109.02	111.90
26	BB	398	C	N1-C1'-C2'	-5.75	105.67	112.00
26	BB	1129	A	N7-C8-N9	5.75	116.68	113.80
26	BB	1301	A	N1-C6-N6	-5.75	115.15	118.60
26	BB	1629	U	C3'-C2'-C1'	-5.75	96.90	101.50
26	BB	1858	A	N3-C4-C5	-5.75	122.77	126.80
26	BB	1936	A	C4-C5-N7	-5.75	107.82	110.70
26	BB	2216	G	N9-C4-C5	5.75	107.70	105.40
26	BB	2511	U	O3'-P-O5'	-5.75	93.07	104.00
1	AA	225	C	N3-C4-C5	5.75	124.20	121.90
1	AA	592	G	N3-C2-N2	-5.75	115.87	119.90
1	AA	1437	A	O5'-C5'-C4'	5.75	122.63	111.70
4	AD	73	A	C5-N7-C8	-5.75	101.03	103.90
26	BB	114	U	C3'-C2'-C1'	-5.75	96.90	101.50
26	BB	610	C	C5'-C4'-O4'	5.75	116.00	109.10
26	BB	1447	C	O4'-C1'-N1	5.75	112.80	108.20
26	BB	1540	G	C4'-C3'-C2'	-5.75	96.85	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1869	G	C5'-C4'-O4'	5.75	116.00	109.10
26	BB	2469	A	N9-C4-C5	5.75	108.10	105.80
1	AA	930	C	P-O3'-C3'	5.75	126.60	119.70
4	AD	32	G	N3-C4-N9	5.75	129.45	126.00
25	BA	88	C	O4'-C4'-C3'	-5.75	98.25	104.00
26	BB	217	A	C1'-O4'-C4'	-5.75	105.30	109.90
26	BB	524	G	C4-C5-N7	5.75	113.10	110.80
26	BB	625	G	C5-N7-C8	-5.75	101.42	104.30
26	BB	876	C	C5'-C4'-C3'	-5.75	106.80	116.00
26	BB	1007	C	C5-C4-N4	-5.75	116.17	120.20
1	AA	485	U	N1-C2-O2	5.75	126.82	122.80
1	AA	493	A	N1-C2-N3	-5.75	126.43	129.30
1	AA	570	G	N3-C4-C5	-5.75	125.73	128.60
1	AA	571	U	N1-C2-O2	5.75	126.82	122.80
1	AA	846	G	C5-N7-C8	-5.75	101.42	104.30
1	AA	937	A	C2-N3-C4	5.75	113.47	110.60
1	AA	1199	U	C4-C5-C6	5.75	123.15	119.70
2	AB	2	G	C5'-C4'-O4'	5.75	116.00	109.10
2	AB	59	G	C6-C5-N7	-5.75	126.95	130.40
4	AD	13	C	N3-C2-O2	-5.75	117.88	121.90
26	BB	224	U	C5'-C4'-O4'	5.75	116.00	109.10
26	BB	388	G	C4-C5-N7	-5.75	108.50	110.80
26	BB	1179	G	N3-C2-N2	5.75	123.92	119.90
26	BB	1187	G	N3-C4-C5	-5.75	125.73	128.60
26	BB	1332	G	P-O3'-C3'	5.75	126.60	119.70
26	BB	1434	A	N1-C2-N3	5.75	132.17	129.30
26	BB	1612	C	N3-C4-C5	5.75	124.20	121.90
26	BB	2339	C	C5-C6-N1	5.75	123.87	121.00
26	BB	2423	U	C5-C4-O4	-5.75	122.45	125.90
26	BB	2839	G	O4'-C1'-N9	-5.75	103.60	108.20
26	BB	2869	G	N3-C4-C5	-5.75	125.73	128.60
1	AA	755	G	O5'-P-OP2	-5.75	100.53	105.70
1	AA	792	A	C6-C5-N7	5.75	136.32	132.30
25	BA	50	A	O4'-C1'-N9	5.75	112.80	108.20
26	BB	208	C	N1-C2-O2	5.75	122.35	118.90
26	BB	358	U	O4'-C4'-C3'	5.75	110.70	106.10
26	BB	1194	A	C6-N1-C2	5.75	122.05	118.60
26	BB	2240	U	N3-C2-O2	-5.75	118.18	122.20
26	BB	2635	A	C6-N1-C2	-5.75	115.15	118.60
26	BB	2875	C	N1-C2-O2	5.75	122.35	118.90
1	AA	122	G	C6-N1-C2	-5.75	121.65	125.10
1	AA	1238	A	O4'-C1'-N9	5.75	112.80	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1435	G	N1-C2-N3	-5.75	120.45	123.90
1	AA	1480	A	C5-C6-N1	-5.75	114.83	117.70
26	BB	88	G	C5'-C4'-C3'	-5.75	106.81	116.00
26	BB	252	G	C8-N9-C4	-5.75	104.10	106.40
26	BB	1210	G	C2-N3-C4	5.75	114.77	111.90
26	BB	2885	G	N1-C2-N3	-5.75	120.45	123.90
27	BC	102	ASP	CB-CG-OD1	5.75	123.47	118.30
1	AA	215	C	C3'-C2'-C1'	-5.74	96.91	101.50
1	AA	777	A	C5-N7-C8	5.74	106.77	103.90
1	AA	790	A	C4-C5-C6	-5.74	114.13	117.00
5	AE	31	PHE	CB-CG-CD2	5.74	124.82	120.80
25	BA	87	U	O4'-C1'-C2'	-5.74	100.06	105.80
26	BB	140	C	C3'-C2'-C1'	5.74	106.09	101.50
26	BB	162	U	C4-C5-C6	5.74	123.15	119.70
26	BB	493	G	N9-C4-C5	5.74	107.70	105.40
26	BB	496	G	C6-N1-C2	5.74	128.55	125.10
26	BB	706	A	N1-C2-N3	-5.74	126.43	129.30
26	BB	750	A	C2-N3-C4	-5.74	107.73	110.60
26	BB	1097	U	N3-C4-O4	5.74	123.42	119.40
26	BB	1220	G	P-O5'-C5'	5.74	130.09	120.90
26	BB	1231	U	C5-C6-N1	-5.74	119.83	122.70
26	BB	1633	G	C5-C6-N1	5.74	114.37	111.50
26	BB	2023	C	N3-C4-N4	-5.74	113.98	118.00
26	BB	2090	A	N3-C4-C5	-5.74	122.78	126.80
26	BB	2212	A	N1-C2-N3	5.74	132.17	129.30
26	BB	2754	U	O4'-C1'-N1	5.74	112.79	108.20
26	BB	2903	U	C5-C6-N1	-5.74	119.83	122.70
1	AA	539	A	N1-C2-N3	-5.74	126.43	129.30
26	BB	981	A	O4'-C4'-C3'	5.74	110.69	106.10
26	BB	1288	G	C5-C6-N1	5.74	114.37	111.50
26	BB	1562	U	O4'-C1'-N1	5.74	112.79	108.20
26	BB	1603	A	N9-C4-C5	-5.74	103.50	105.80
27	BC	43	ASP	CB-CG-OD2	-5.74	113.13	118.30
1	AA	282	A	C4-C5-N7	-5.74	107.83	110.70
1	AA	310	G	N1-C6-O6	5.74	123.34	119.90
1	AA	395	C	C6-N1-C2	-5.74	118.00	120.30
1	AA	529	G	O4'-C1'-N9	5.74	112.79	108.20
1	AA	1249	C	P-O3'-C3'	5.74	126.59	119.70
1	AA	1301	U	N3-C4-O4	5.74	123.42	119.40
1	AA	1328	C	C3'-C2'-C1'	-5.74	96.91	101.50
26	BB	56	A	N9-C1'-C2'	-5.74	105.69	112.00
26	BB	267	C	N1-C2-O2	5.74	122.34	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	714	U	C5-C6-N1	5.74	125.57	122.70
26	BB	899	A	N9-C1'-C2'	-5.74	105.69	112.00
26	BB	966	G	C5'-C4'-O4'	5.74	115.99	109.10
26	BB	1116	G	C5-C6-N1	5.74	114.37	111.50
26	BB	1285	A	C5'-C4'-C3'	-5.74	106.81	116.00
26	BB	2024	G	C5-N7-C8	5.74	107.17	104.30
26	BB	2204	G	O4'-C4'-C3'	5.74	110.69	106.10
26	BB	2216	G	C4-C5-N7	-5.74	108.50	110.80
26	BB	2413	G	C5-C6-N1	-5.74	108.63	111.50
26	BB	2474	U	C6-N1-C2	5.74	124.44	121.00
26	BB	2767	C	C2-N1-C1'	-5.74	112.49	118.80
26	BB	2773	C	C1'-O4'-C4'	5.74	114.49	109.90
32	BH	150	TYR	CB-CG-CD1	-5.74	117.56	121.00
40	BP	97	ILE	CA-CB-CG1	5.74	121.91	111.00
46	BV	55	VAL	CA-CB-CG2	5.74	119.51	110.90
1	AA	168	G	O5'-P-OP2	-5.74	100.53	105.70
1	AA	255	G	C3'-C2'-C1'	5.74	106.09	101.50
1	AA	766	A	C5'-C4'-C3'	-5.74	106.82	116.00
1	AA	816	A	C6-C5-N7	-5.74	128.28	132.30
1	AA	1104	G	C4-C5-N7	-5.74	108.50	110.80
1	AA	1126	U	O5'-P-OP1	5.74	117.59	110.70
1	AA	1192	C	C5'-C4'-O4'	5.74	115.99	109.10
1	AA	1495	U	C1'-O4'-C4'	5.74	114.49	109.90
2	AB	59	G	N7-C8-N9	5.74	115.97	113.10
25	BA	25	U	N3-C4-C5	-5.74	111.16	114.60
26	BB	566	U	O4'-C4'-C3'	5.74	110.69	106.10
26	BB	1149	G	O4'-C1'-N9	5.74	112.79	108.20
26	BB	1197	G	C5-C6-O6	5.74	132.04	128.60
26	BB	1456	G	C8-N9-C1'	5.74	134.46	127.00
26	BB	1644	C	N3-C4-N4	5.74	122.02	118.00
26	BB	1832	C	C5'-C4'-O4'	5.74	115.99	109.10
26	BB	2100	G	N3-C4-N9	5.74	129.44	126.00
26	BB	2238	G	N7-C8-N9	5.74	115.97	113.10
26	BB	2452	C	N3-C4-C5	-5.74	119.60	121.90
33	BI	61	VAL	CA-CB-CG1	5.74	119.51	110.90
1	AA	737	C	C3'-C2'-C1'	5.74	106.09	101.50
1	AA	1037	C	C3'-C2'-C1'	5.74	106.09	101.50
1	AA	1512	U	N1-C2-N3	5.74	118.34	114.90
2	AB	24	G	N1-C2-N2	5.74	121.36	116.20
26	BB	315	G	C5-C6-N1	5.74	114.37	111.50
26	BB	503	A	N1-C6-N6	5.74	122.04	118.60
26	BB	1522	A	N3-C4-N9	-5.74	122.81	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1850	G	N3-C2-N2	5.74	123.92	119.90
26	BB	1933	G	N1-C2-N3	5.74	127.34	123.90
26	BB	2424	C	C5-C4-N4	-5.74	116.18	120.20
1	AA	101	A	C6-N1-C2	5.74	122.04	118.60
1	AA	523	A	P-O5'-C5'	5.74	130.08	120.90
1	AA	929	G	N1-C2-N2	5.74	121.36	116.20
1	AA	1112	C	C4-C5-C6	-5.74	114.53	117.40
1	AA	1343	G	O4'-C4'-C3'	5.74	110.69	106.10
26	BB	535	G	N3-C2-N2	-5.74	115.89	119.90
26	BB	608	A	C5'-C4'-O4'	5.74	115.98	109.10
26	BB	762	U	C2-N1-C1'	-5.74	110.82	117.70
26	BB	2399	G	O4'-C1'-N9	-5.74	103.61	108.20
1	AA	185	U	N3-C4-O4	5.73	123.41	119.40
26	BB	826	U	C3'-C2'-C1'	5.73	106.09	101.50
26	BB	1634	A	C5'-C4'-O4'	5.73	115.98	109.10
26	BB	1997	C	C2-N3-C4	-5.73	117.03	119.90
26	BB	2211	A	N9-C4-C5	5.73	108.09	105.80
26	BB	2268	A	N3-C4-C5	-5.73	122.79	126.80
26	BB	2366	A	N7-C8-N9	5.73	116.67	113.80
25	BA	50	A	P-O3'-C3'	5.73	126.58	119.70
26	BB	9	G	N9-C4-C5	5.73	107.69	105.40
26	BB	212	G	N3-C2-N2	-5.73	115.89	119.90
26	BB	227	A	C5-C6-N1	5.73	120.57	117.70
26	BB	610	C	N1-C2-N3	-5.73	115.19	119.20
26	BB	921	C	C1'-O4'-C4'	5.73	114.49	109.90
26	BB	949	G	C6-C5-N7	-5.73	126.96	130.40
26	BB	984	A	C3'-C2'-C1'	5.73	106.09	101.50
26	BB	1388	G	C6-C5-N7	-5.73	126.96	130.40
26	BB	1567	G	C5-N7-C8	-5.73	101.43	104.30
26	BB	1622	G	N3-C4-C5	-5.73	125.73	128.60
26	BB	1840	G	C5-N7-C8	-5.73	101.43	104.30
26	BB	2406	A	C3'-C2'-C1'	5.73	106.09	101.50
26	BB	2620	C	N1-C2-O2	5.73	122.34	118.90
26	BB	2736	A	C5'-C4'-C3'	-5.73	106.83	116.00
1	AA	262	A	N1-C6-N6	5.73	122.04	118.60
1	AA	551	U	N3-C2-O2	-5.73	118.19	122.20
1	AA	753	A	O5'-P-OP2	-5.73	100.54	105.70
1	AA	818	G	C5-C6-N1	-5.73	108.64	111.50
1	AA	1423	G	N1-C2-N3	-5.73	120.46	123.90
1	AA	1528	U	O4'-C4'-C3'	5.73	110.68	106.10
2	AB	38	A	N1-C6-N6	-5.73	115.16	118.60
7	AG	127	ARG	CD-NE-CZ	5.73	131.62	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	AH	44	ARG	NE-CZ-NH2	-5.73	117.44	120.30
23	AW	50	PHE	CG-CD2-CE2	-5.73	114.50	120.80
26	BB	8	C	C5'-C4'-O4'	5.73	115.98	109.10
26	BB	60	G	C5'-C4'-C3'	-5.73	106.83	116.00
26	BB	110	G	N3-C4-C5	-5.73	125.73	128.60
26	BB	423	A	C8-N9-C4	5.73	108.09	105.80
26	BB	798	G	N9-C4-C5	5.73	107.69	105.40
26	BB	2008	C	P-O5'-C5'	5.73	130.07	120.90
26	BB	2261	C	C4-C5-C6	-5.73	114.53	117.40
26	BB	2631	G	C6-C5-N7	-5.73	126.96	130.40
26	BB	2731	G	C2-N3-C4	5.73	114.77	111.90
1	AA	289	G	N3-C2-N2	-5.73	115.89	119.90
1	AA	566	G	C8-N9-C4	-5.73	104.11	106.40
1	AA	583	A	C5'-C4'-O4'	5.73	115.97	109.10
1	AA	651	C	C6-N1-C2	-5.73	118.01	120.30
1	AA	721	G	C8-N9-C4	-5.73	104.11	106.40
1	AA	761	G	C4-C5-C6	5.73	122.24	118.80
1	AA	1297	G	O4'-C1'-C2'	-5.73	100.07	105.80
6	AF	202	PHE	CB-CG-CD1	5.73	124.81	120.80
26	BB	281	C	O4'-C1'-N1	5.73	112.78	108.20
26	BB	693	A	C8-N9-C4	-5.73	103.51	105.80
26	BB	988	A	N9-C4-C5	5.73	108.09	105.80
26	BB	1738	G	C2-N3-C4	5.73	114.77	111.90
26	BB	2006	C	N1-C2-O2	5.73	122.34	118.90
26	BB	2545	G	N3-C4-C5	-5.73	125.73	128.60
26	BB	2588	G	C4-C5-N7	-5.73	108.51	110.80
26	BB	2669	G	C4-C5-C6	5.73	122.24	118.80
1	AA	604	G	C5-C6-O6	-5.73	125.16	128.60
1	AA	749	A	C4'-C3'-O3'	5.73	124.45	113.00
1	AA	777	A	C4-C5-N7	-5.73	107.84	110.70
1	AA	852	G	N9-C4-C5	-5.73	103.11	105.40
1	AA	915	A	C4-C5-N7	-5.73	107.84	110.70
1	AA	950	U	N3-C4-O4	5.73	123.41	119.40
1	AA	1229	A	C6-C5-N7	5.73	136.31	132.30
4	AD	59	A	C5-C6-N6	-5.73	119.12	123.70
26	BB	1335	C	C5-C6-N1	5.73	123.86	121.00
26	BB	1359	A	C5'-C4'-C3'	-5.73	106.83	116.00
26	BB	1579	A	N7-C8-N9	-5.73	110.94	113.80
26	BB	1693	U	O4'-C4'-C3'	5.73	110.68	106.10
26	BB	1814	G	N7-C8-N9	-5.73	110.24	113.10
26	BB	1976	U	P-O3'-C3'	5.73	126.57	119.70
26	BB	2430	A	C5-C6-N1	5.73	120.56	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2761	A	C8-N9-C4	-5.73	103.51	105.80
26	BB	2832	U	C5-C6-N1	-5.73	119.84	122.70
1	AA	177	G	N1-C6-O6	-5.73	116.47	119.90
1	AA	747	A	N1-C2-N3	-5.73	126.44	129.30
1	AA	1413	A	C8-N9-C4	-5.73	103.51	105.80
25	BA	3	C	O5'-P-OP2	-5.73	100.55	105.70
26	BB	479	A	C2-N3-C4	-5.73	107.74	110.60
26	BB	739	A	C4-C5-C6	-5.73	114.14	117.00
26	BB	1100	C	C5'-C4'-O4'	5.73	115.97	109.10
26	BB	2324	U	N3-C2-O2	-5.73	118.19	122.20
26	BB	2870	C	C5-C4-N4	5.73	124.21	120.20
1	AA	115	G	C6-N1-C2	-5.72	121.67	125.10
1	AA	399	G	P-O3'-C3'	5.72	126.57	119.70
1	AA	906	A	N9-C4-C5	-5.72	103.51	105.80
1	AA	1311	A	C6-C5-N7	-5.72	128.29	132.30
1	AA	1475	G	C1'-O4'-C4'	-5.72	105.32	109.90
1	AA	1539	C	C2-N3-C4	5.72	122.76	119.90
2	AB	38	A	C8-N9-C4	-5.72	103.51	105.80
26	BB	13	A	N1-C6-N6	-5.72	115.17	118.60
26	BB	214	G	N1-C2-N3	-5.72	120.47	123.90
26	BB	238	C	C3'-C2'-C1'	-5.72	96.92	101.50
26	BB	406	G	C8-N9-C4	-5.72	104.11	106.40
26	BB	491	G	C5-C6-O6	-5.72	125.17	128.60
26	BB	1491	G	C5'-C4'-O4'	5.72	115.97	109.10
26	BB	1714	U	C2-N1-C1'	5.72	124.57	117.70
26	BB	2138	G	C6-N1-C2	5.72	128.53	125.10
26	BB	2158	A	P-O3'-C3'	5.72	126.57	119.70
26	BB	2211	A	C4-C5-C6	5.72	119.86	117.00
26	BB	2331	G	N3-C2-N2	5.72	123.91	119.90
1	AA	278	G	O4'-C4'-C3'	5.72	110.68	106.10
1	AA	349	A	O4'-C1'-N9	5.72	112.78	108.20
1	AA	749	A	C5-C6-N1	5.72	120.56	117.70
1	AA	1051	C	O4'-C1'-N1	5.72	112.78	108.20
25	BA	42	C	P-O3'-C3'	5.72	126.57	119.70
25	BA	93	C	C2-N3-C4	5.72	122.76	119.90
26	BB	391	A	N1-C6-N6	-5.72	115.17	118.60
26	BB	675	A	C5'-C4'-O4'	5.72	115.97	109.10
26	BB	1010	A	N1-C2-N3	-5.72	126.44	129.30
26	BB	1325	U	C1'-O4'-C4'	5.72	114.48	109.90
26	BB	1441	G	N1-C2-N3	-5.72	120.47	123.90
26	BB	1476	U	N3-C2-O2	-5.72	118.19	122.20
26	BB	1733	G	C4-C5-N7	-5.72	108.51	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1789	A	N3-C4-C5	5.72	130.81	126.80
26	BB	1871	A	O4'-C1'-N9	5.72	112.78	108.20
26	BB	2554	U	C4-C5-C6	5.72	123.13	119.70
26	BB	2875	C	N3-C4-N4	-5.72	113.99	118.00
1	AA	471	U	N1-C2-O2	5.72	126.81	122.80
4	AD	28	U	C1'-O4'-C4'	5.72	114.48	109.90
26	BB	326	G	N9-C4-C5	5.72	107.69	105.40
26	BB	330	A	P-O3'-C3'	5.72	126.57	119.70
26	BB	458	G	N9-C1'-C2'	5.72	121.44	114.00
26	BB	825	A	O4'-C1'-N9	5.72	112.78	108.20
26	BB	1811	G	C4-C5-C6	5.72	122.23	118.80
28	BD	247	TRP	NE1-CE2-CD2	-5.72	101.58	107.30
1	AA	168	G	C8-N9-C4	-5.72	104.11	106.40
1	AA	671	G	C8-N9-C4	-5.72	104.11	106.40
1	AA	775	G	C1'-O4'-C4'	-5.72	105.32	109.90
1	AA	893	C	C4'-C3'-C2'	-5.72	96.88	102.60
1	AA	898	G	C4-C5-N7	5.72	113.09	110.80
1	AA	1035	A	C2-N3-C4	5.72	113.46	110.60
26	BB	338	G	N3-C4-N9	5.72	129.43	126.00
26	BB	744	U	C4-C5-C6	5.72	123.13	119.70
26	BB	1107	G	C4-C5-N7	-5.72	108.51	110.80
26	BB	1335	C	C5-C4-N4	5.72	124.20	120.20
26	BB	1337	G	C2-N3-C4	5.72	114.76	111.90
26	BB	1637	A	C5-C6-N6	-5.72	119.12	123.70
26	BB	1798	U	C3'-C2'-C1'	5.72	106.08	101.50
26	BB	1842	G	N7-C8-N9	5.72	115.96	113.10
26	BB	1952	A	C5-N7-C8	-5.72	101.04	103.90
26	BB	2458	G	C6-C5-N7	-5.72	126.97	130.40
1	AA	716	A	C4-C5-N7	5.72	113.56	110.70
10	AJ	52	ARG	NE-CZ-NH1	5.72	123.16	120.30
26	BB	689	A	N7-C8-N9	-5.72	110.94	113.80
26	BB	1382	G	C6-C5-N7	-5.72	126.97	130.40
26	BB	1421	G	C8-N9-C4	-5.72	104.11	106.40
26	BB	1436	G	N3-C4-N9	5.72	129.43	126.00
26	BB	2528	U	C4-C5-C6	5.72	123.13	119.70
32	BH	42	VAL	CA-CB-CG1	5.72	119.48	110.90
1	AA	345	C	P-O3'-C3'	5.72	126.56	119.70
1	AA	547	A	C1'-O4'-C4'	5.72	114.47	109.90
1	AA	807	A	N7-C8-N9	5.72	116.66	113.80
1	AA	912	C	C5-C4-N4	-5.72	116.20	120.20
1	AA	914	A	N3-C4-C5	-5.72	122.80	126.80
1	AA	936	C	C6-N1-C1'	5.72	127.66	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1084	G	C4'-C3'-C2'	-5.72	96.88	102.60
1	AA	1303	C	N1-C2-O2	5.72	122.33	118.90
2	AB	56	C	P-O3'-C3'	5.72	126.56	119.70
11	AK	65	PHE	CB-CG-CD1	-5.72	116.80	120.80
12	AL	63	TYR	CB-CG-CD2	5.72	124.43	121.00
24	AX	66	ARG	CA-CB-CG	5.72	125.98	113.40
26	BB	54	G	C8-N9-C1'	5.72	134.43	127.00
26	BB	586	A	C8-N9-C4	-5.72	103.51	105.80
26	BB	655	A	C4-C5-C6	-5.72	114.14	117.00
26	BB	782	A	N1-C2-N3	-5.72	126.44	129.30
26	BB	1678	A	C4-C5-C6	5.72	119.86	117.00
26	BB	2253	G	C5-N7-C8	5.72	107.16	104.30
26	BB	2829	A	N3-C4-C5	-5.72	122.80	126.80
1	AA	294	U	O4'-C4'-C3'	5.71	110.67	106.10
1	AA	758	C	C4-C5-C6	-5.71	114.54	117.40
1	AA	895	G	C5-C6-O6	5.71	132.03	128.60
1	AA	1376	U	C2-N3-C4	-5.71	123.57	127.00
2	AB	38	A	O4'-C1'-C2'	5.71	112.74	107.60
3	AC	48	C	C4-C5-C6	5.71	120.26	117.40
26	BB	205	G	C5-N7-C8	-5.71	101.44	104.30
26	BB	342	A	C5'-C4'-C3'	-5.71	106.86	116.00
26	BB	558	U	C4-C5-C6	5.71	123.13	119.70
26	BB	618	G	C4-C5-N7	-5.71	108.51	110.80
26	BB	966	G	N1-C6-O6	-5.71	116.47	119.90
26	BB	1085	A	C1'-O4'-C4'	-5.71	105.33	109.90
26	BB	1194	A	N1-C2-N3	-5.71	126.44	129.30
26	BB	1744	A	C6-C5-N7	5.71	136.30	132.30
26	BB	1889	A	C1'-O4'-C4'	5.71	114.47	109.90
26	BB	2122	U	C4'-C3'-C2'	-5.71	96.89	102.60
26	BB	2306	C	C6-N1-C2	-5.71	118.01	120.30
26	BB	2397	G	C5'-C4'-O4'	5.71	115.96	109.10
26	BB	2639	A	C6-C5-N7	5.71	136.30	132.30
26	BB	2758	A	O3'-P-O5'	-5.71	93.14	104.00
26	BB	2861	U	C5'-C4'-O4'	5.71	115.96	109.10
1	AA	694	A	N1-C6-N6	5.71	122.03	118.60
1	AA	774	G	P-O3'-C3'	-5.71	112.84	119.70
1	AA	805	C	O4'-C1'-N1	5.71	112.77	108.20
1	AA	1124	G	N1-C2-N2	5.71	121.34	116.20
1	AA	1250	A	N1-C6-N6	-5.71	115.17	118.60
26	BB	406	G	C2-N3-C4	-5.71	109.04	111.90
26	BB	929	U	C5'-C4'-O4'	5.71	115.96	109.10
26	BB	2131	U	C4-C5-C6	5.71	123.13	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2230	G	C4-C5-C6	5.71	122.23	118.80
26	BB	2501	C	C4'-C3'-C2'	5.71	108.31	102.60
1	AA	1433	A	C1'-O4'-C4'	5.71	114.47	109.90
1	AA	1512	U	O4'-C1'-N1	5.71	112.77	108.20
2	AB	9	A	O4'-C4'-C3'	5.71	110.67	106.10
6	AF	178	ARG	C-N-CA	5.71	135.98	121.70
26	BB	213	A	C5-C6-N1	5.71	120.56	117.70
26	BB	1289	C	C5-C6-N1	5.71	123.86	121.00
26	BB	2599	G	C5-C6-N1	5.71	114.36	111.50
26	BB	2745	C	O4'-C1'-N1	5.71	112.77	108.20
27	BC	71	ARG	NE-CZ-NH1	5.71	123.16	120.30
1	AA	140	U	C5-C6-N1	-5.71	119.84	122.70
1	AA	154	U	C5-C4-O4	-5.71	122.47	125.90
1	AA	287	U	C4'-C3'-C2'	-5.71	96.89	102.60
1	AA	1080	A	N7-C8-N9	5.71	116.66	113.80
1	AA	1208	C	C5-C4-N4	-5.71	116.20	120.20
26	BB	464	U	C6-N1-C2	-5.71	117.57	121.00
26	BB	1523	U	N3-C4-O4	5.71	123.40	119.40
26	BB	2246	G	C3'-C2'-C1'	5.71	106.07	101.50
26	BB	2266	A	N7-C8-N9	5.71	116.66	113.80
26	BB	2461	A	N9-C4-C5	5.71	108.08	105.80
1	AA	347	G	N9-C1'-C2'	-5.71	105.72	112.00
1	AA	735	C	N1-C2-O2	5.71	122.33	118.90
1	AA	779	C	C5-C4-N4	-5.71	116.20	120.20
1	AA	975	A	C5'-C4'-C3'	-5.71	106.87	116.00
1	AA	1368	A	C5-C6-N1	5.71	120.56	117.70
3	AC	50	U	P-O3'-C3'	5.71	126.55	119.70
25	BA	108	A	O4'-C1'-N9	5.71	112.77	108.20
26	BB	69	C	N3-C2-O2	-5.71	117.90	121.90
26	BB	100	U	C5'-C4'-O4'	5.71	115.95	109.10
26	BB	148	U	C5'-C4'-O4'	5.71	115.95	109.10
26	BB	214	G	C8-N9-C4	-5.71	104.12	106.40
26	BB	570	G	N1-C2-N3	-5.71	120.47	123.90
26	BB	1393	A	C8-N9-C4	-5.71	103.52	105.80
26	BB	1667	G	N7-C8-N9	5.71	115.95	113.10
26	BB	1820	U	C6-N1-C2	-5.71	117.58	121.00
26	BB	2889	C	N1-C2-O2	5.71	122.33	118.90
1	AA	715	A	C2-N3-C4	5.71	113.45	110.60
1	AA	904	U	C2-N3-C4	-5.71	123.58	127.00
1	AA	974	A	C5-C6-N6	5.71	128.26	123.70
1	AA	1475	G	C5-C6-N1	-5.71	108.65	111.50
1	AA	1530	G	N3-C4-N9	5.71	129.42	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	220	G	C5-C6-O6	5.71	132.02	128.60
26	BB	605	G	C4-C5-C6	5.71	122.22	118.80
26	BB	697	G	N9-C4-C5	5.71	107.68	105.40
26	BB	1001	A	P-O3'-C3'	5.71	126.55	119.70
26	BB	1544	A	O4'-C1'-N9	5.71	112.77	108.20
26	BB	2036	C	C4-C5-C6	5.71	120.25	117.40
1	AA	1007	U	C2-N1-C1'	5.71	124.55	117.70
1	AA	1093	A	N9-C1'-C2'	-5.71	105.72	112.00
26	BB	133	U	P-O3'-C3'	5.71	126.55	119.70
26	BB	378	C	C2-N3-C4	5.71	122.75	119.90
26	BB	380	G	N9-C1'-C2'	-5.71	105.72	112.00
26	BB	566	U	O4'-C1'-N1	5.71	112.76	108.20
26	BB	1207	C	C4-C5-C6	-5.71	114.55	117.40
26	BB	1330	C	N3-C2-O2	-5.71	117.91	121.90
26	BB	2404	U	N1-C2-O2	-5.71	118.81	122.80
1	AA	700	G	N3-C2-N2	-5.70	115.91	119.90
1	AA	721	G	O4'-C1'-N9	5.70	112.76	108.20
1	AA	980	C	O4'-C1'-N1	5.70	112.76	108.20
1	AA	1442	G	C5-N7-C8	-5.70	101.45	104.30
4	AD	64	G	C1'-O4'-C4'	5.70	114.46	109.90
25	BA	70	C	C2-N3-C4	-5.70	117.05	119.90
26	BB	23	G	N1-C6-O6	-5.70	116.48	119.90
26	BB	418	C	C5-C6-N1	5.70	123.85	121.00
26	BB	1058	U	N1-C2-N3	5.70	118.32	114.90
26	BB	1089	A	N1-C6-N6	5.70	122.02	118.60
26	BB	1137	G	C5-C6-N1	5.70	114.35	111.50
26	BB	1863	G	O4'-C1'-C2'	5.70	112.73	107.60
26	BB	2084	C	C5'-C4'-O4'	5.70	115.94	109.10
26	BB	2667	C	C3'-C2'-C1'	5.70	106.06	101.50
26	BB	2822	G	N1-C2-N2	-5.70	111.07	116.20
1	AA	97	G	C5'-C4'-O4'	5.70	115.94	109.10
1	AA	732	C	N1-C2-O2	5.70	122.32	118.90
26	BB	590	A	C4-C5-N7	-5.70	107.85	110.70
26	BB	1338	G	C2-N3-C4	5.70	114.75	111.90
26	BB	1470	A	C4-C5-N7	-5.70	107.85	110.70
26	BB	1843	C	C5-C6-N1	-5.70	118.15	121.00
26	BB	1954	G	C2-N3-C4	5.70	114.75	111.90
26	BB	2188	U	C5-C4-O4	-5.70	122.48	125.90
46	BV	69	ARG	NE-CZ-NH2	-5.70	117.45	120.30
1	AA	537	G	N3-C4-C5	-5.70	125.75	128.60
1	AA	543	U	N1-C2-N3	5.70	118.32	114.90
1	AA	708	C	C4-C5-C6	5.70	120.25	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	799	G	O3'-P-O5'	-5.70	93.17	104.00
1	AA	1021	A	C5-C6-N1	-5.70	114.85	117.70
1	AA	1333	A	O4'-C1'-C2'	5.70	112.73	107.60
6	AF	64	ARG	NE-CZ-NH2	-5.70	117.45	120.30
16	AP	41	ASP	CB-CG-OD2	-5.70	113.17	118.30
26	BB	460	A	C8-N9-C4	5.70	108.08	105.80
26	BB	548	G	C3'-C2'-C1'	-5.70	96.94	101.50
26	BB	1529	G	C6-C5-N7	5.70	133.82	130.40
26	BB	2314	A	O5'-C5'-C4'	-5.70	100.87	111.70
29	BE	73	VAL	CA-CB-CG2	5.70	119.45	110.90
50	BZ	2	ARG	NE-CZ-NH1	-5.70	117.45	120.30
1	AA	145	G	N9-C4-C5	5.70	107.68	105.40
1	AA	191	G	C4-C5-C6	5.70	122.22	118.80
1	AA	281	G	C5-C6-O6	-5.70	125.18	128.60
1	AA	436	C	N1-C2-O2	5.70	122.32	118.90
1	AA	1431	A	C5-C6-N1	-5.70	114.85	117.70
1	AA	1458	G	O4'-C4'-C3'	5.70	110.66	106.10
26	BB	7	G	N1-C2-N2	5.70	121.33	116.20
26	BB	415	A	N1-C2-N3	-5.70	126.45	129.30
26	BB	1273	U	C6-N1-C2	-5.70	117.58	121.00
26	BB	1508	A	C2-N3-C4	5.70	113.45	110.60
26	BB	1622	G	C6-N1-C2	-5.70	121.68	125.10
26	BB	1623	G	C6-C5-N7	5.70	133.82	130.40
26	BB	1867	G	C2-N3-C4	-5.70	109.05	111.90
26	BB	2173	A	O4'-C1'-N9	5.70	112.76	108.20
26	BB	2738	A	C5-C6-N6	5.70	128.26	123.70
26	BB	2750	A	C2-N3-C4	5.70	113.45	110.60
11	AK	127	TYR	CA-CB-CG	5.70	124.22	113.40
26	BB	157	C	C2-N3-C4	-5.70	117.05	119.90
26	BB	158	U	N1-C1'-C2'	-5.70	105.73	112.00
26	BB	1213	A	O4'-C1'-N9	-5.70	103.64	108.20
26	BB	1895	C	N3-C2-O2	-5.70	117.91	121.90
26	BB	2254	C	N3-C4-C5	-5.70	119.62	121.90
26	BB	2291	U	P-O3'-C3'	5.70	126.54	119.70
26	BB	2353	G	C8-N9-C1'	5.70	134.41	127.00
1	AA	820	U	N3-C4-C5	5.70	118.02	114.60
1	AA	893	C	N3-C4-N4	5.70	121.99	118.00
2	AB	67	G	N7-C8-N9	-5.70	110.25	113.10
26	BB	52	A	C6-N1-C2	5.70	122.02	118.60
26	BB	840	C	C6-N1-C2	-5.70	118.02	120.30
26	BB	1260	A	N7-C8-N9	5.70	116.65	113.80
26	BB	1319	C	N1-C2-O2	5.70	122.32	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1776	G	C5-C6-O6	-5.70	125.18	128.60
26	BB	2107	G	C6-C5-N7	-5.70	126.98	130.40
26	BB	2241	A	C6-N1-C2	-5.70	115.18	118.60
26	BB	2887	A	N9-C1'-C2'	-5.70	105.73	112.00
28	BD	176	ARG	NH1-CZ-NH2	5.70	125.67	119.40
1	AA	126	G	N3-C4-C5	-5.69	125.75	128.60
1	AA	426	U	C6-N1-C2	-5.69	117.58	121.00
1	AA	971	G	N3-C2-N2	5.69	123.89	119.90
1	AA	1276	G	C8-N9-C4	-5.69	104.12	106.40
1	AA	1512	U	O4'-C4'-C3'	-5.69	98.31	104.00
25	BA	35	C	P-O3'-C3'	5.69	126.53	119.70
25	BA	83	G	C6-N1-C2	5.69	128.52	125.10
26	BB	192	C	C3'-C2'-C1'	5.69	106.06	101.50
26	BB	1766	G	C5-C6-N1	5.69	114.35	111.50
26	BB	1813	G	O4'-C1'-N9	5.69	112.76	108.20
26	BB	2382	G	C5-C6-N1	5.69	114.35	111.50
26	BB	2416	C	C6-N1-C2	-5.69	118.02	120.30
26	BB	2426	A	C5-C6-N6	-5.69	119.14	123.70
1	AA	570	G	O4'-C1'-N9	5.69	112.75	108.20
1	AA	598	U	O4'-C1'-C2'	-5.69	100.11	105.80
1	AA	927	G	C5-C6-O6	5.69	132.01	128.60
1	AA	942	G	C1'-O4'-C4'	-5.69	105.35	109.90
1	AA	1170	A	C1'-O4'-C4'	-5.69	105.35	109.90
26	BB	167	A	C6-C5-N7	-5.69	128.31	132.30
26	BB	223	A	N7-C8-N9	5.69	116.65	113.80
26	BB	263	G	C6-C5-N7	-5.69	126.98	130.40
26	BB	334	C	N3-C2-O2	-5.69	117.92	121.90
26	BB	379	G	C4'-C3'-C2'	-5.69	96.91	102.60
26	BB	423	A	C5-C6-N1	-5.69	114.85	117.70
26	BB	528	A	O4'-C1'-C2'	5.69	112.72	107.60
26	BB	756	A	C4'-C3'-C2'	-5.69	96.91	102.60
26	BB	1143	A	N7-C8-N9	5.69	116.65	113.80
26	BB	1475	G	O4'-C1'-C2'	-5.69	100.11	105.80
26	BB	1657	U	C5'-C4'-O4'	5.69	115.93	109.10
26	BB	1671	U	O4'-C1'-N1	5.69	112.75	108.20
26	BB	2128	G	P-O5'-C5'	5.69	130.01	120.90
26	BB	2143	C	N1-C2-O2	5.69	122.32	118.90
26	BB	2377	A	C6-C5-N7	-5.69	128.31	132.30
26	BB	2495	G	C4-C5-N7	-5.69	108.52	110.80
26	BB	2632	A	C5'-C4'-O4'	5.69	115.93	109.10
1	AA	731	G	N3-C4-C5	-5.69	125.75	128.60
1	AA	1505	G	C5-C6-O6	-5.69	125.19	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	AK	50	VAL	O-C-N	5.69	131.81	122.70
26	BB	214	G	C2-N3-C4	5.69	114.75	111.90
26	BB	219	A	O4'-C4'-C3'	5.69	110.65	106.10
26	BB	493	G	P-O3'-C3'	5.69	126.53	119.70
26	BB	620	G	P-O3'-C3'	5.69	126.53	119.70
26	BB	1206	G	C5-N7-C8	-5.69	101.45	104.30
26	BB	1370	C	N3-C2-O2	-5.69	117.92	121.90
26	BB	1764	C	C2-N3-C4	5.69	122.75	119.90
26	BB	2539	C	N3-C4-C5	-5.69	119.62	121.90
26	BB	2561	U	C2-N3-C4	-5.69	123.59	127.00
26	BB	2742	G	N3-C2-N2	-5.69	115.92	119.90
26	BB	2743	U	C5'-C4'-C3'	-5.69	106.89	116.00
32	BH	93	TYR	CG-CD1-CE1	-5.69	116.75	121.30
1	AA	733	G	C5-C6-N1	5.69	114.34	111.50
1	AA	1432	G	C4'-C3'-C2'	-5.69	96.91	102.60
1	AA	1489	G	C1'-O4'-C4'	-5.69	105.35	109.90
26	BB	94	A	C5-C6-N1	-5.69	114.86	117.70
26	BB	1445	G	P-O5'-C5'	5.69	130.00	120.90
26	BB	1468	U	C5'-C4'-O4'	5.69	115.93	109.10
26	BB	1780	A	C4-C5-N7	5.69	113.55	110.70
26	BB	2829	A	C5-N7-C8	5.69	106.74	103.90
1	AA	286	C	C3'-C2'-C1'	-5.69	96.95	101.50
1	AA	442	G	N1-C2-N2	5.69	121.32	116.20
1	AA	507	C	O4'-C1'-C2'	-5.69	100.11	105.80
1	AA	770	C	N1-C1'-C2'	5.69	121.39	114.00
1	AA	953	G	O4'-C1'-N9	5.69	112.75	108.20
2	AB	43	G	C5-C6-O6	-5.69	125.19	128.60
4	AD	66	C	C6-N1-C2	-5.69	118.03	120.30
26	BB	538	A	C2-N3-C4	5.69	113.44	110.60
26	BB	623	C	C5-C4-N4	-5.69	116.22	120.20
26	BB	846	U	O3'-P-O5'	-5.69	93.19	104.00
26	BB	899	A	C2-N3-C4	5.69	113.44	110.60
26	BB	2065	C	C4'-C3'-C2'	-5.69	96.91	102.60
26	BB	2073	C	C3'-C2'-C1'	5.69	106.05	101.50
26	BB	2488	G	C5-C6-O6	-5.69	125.19	128.60
26	BB	2493	U	N3-C4-O4	5.69	123.38	119.40
26	BB	2640	G	C6-C5-N7	5.69	133.81	130.40
26	BB	2751	G	C6-N1-C2	-5.69	121.69	125.10
33	BI	49	ALA	N-CA-CB	-5.69	102.14	110.10
1	AA	41	G	C5-C6-N1	5.69	114.34	111.50
1	AA	656	G	N3-C4-C5	-5.69	125.76	128.60
1	AA	985	C	C2-N3-C4	5.69	122.74	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	354	A	P-O3'-C3'	5.69	126.52	119.70
26	BB	676	A	C5'-C4'-O4'	-5.69	102.28	109.10
26	BB	803	U	P-O3'-C3'	5.69	126.52	119.70
26	BB	1383	A	C8-N9-C4	-5.69	103.53	105.80
26	BB	1465	G	N3-C4-C5	-5.69	125.76	128.60
26	BB	2513	A	C4'-C3'-C2'	-5.69	96.91	102.60
1	AA	364	A	N9-C4-C5	-5.68	103.53	105.80
1	AA	832	G	C4-C5-N7	-5.68	108.53	110.80
1	AA	1049	U	C1'-O4'-C4'	5.68	114.45	109.90
2	AB	44	G	C8-N9-C1'	5.68	134.39	127.00
26	BB	102	U	C2-N3-C4	-5.68	123.59	127.00
26	BB	251	A	O4'-C1'-N9	5.68	112.75	108.20
26	BB	495	G	N3-C4-N9	5.68	129.41	126.00
26	BB	528	A	N1-C2-N3	5.68	132.14	129.30
26	BB	661	A	O4'-C1'-N9	5.68	112.75	108.20
26	BB	689	A	C8-N9-C4	5.68	108.07	105.80
26	BB	2136	G	C3'-C2'-C1'	-5.68	96.95	101.50
26	BB	2213	U	O4'-C1'-N1	5.68	112.75	108.20
26	BB	2303	G	C6-N1-C2	-5.68	121.69	125.10
26	BB	2379	G	N3-C2-N2	5.68	123.88	119.90
26	BB	2418	A	C5-C6-N6	-5.68	119.15	123.70
26	BB	2844	G	C5-C6-N1	5.68	114.34	111.50
57	B6	59	ALA	CB-CA-C	-5.68	101.57	110.10
1	AA	103	U	O4'-C4'-C3'	5.68	110.65	106.10
1	AA	391	G	C2-N3-C4	5.68	114.74	111.90
1	AA	492	C	P-O3'-C3'	5.68	126.52	119.70
1	AA	654	G	C4-C5-C6	-5.68	115.39	118.80
1	AA	735	C	C5-C6-N1	5.68	123.84	121.00
1	AA	1088	G	C5-N7-C8	5.68	107.14	104.30
1	AA	1500	A	N3-C4-N9	5.68	131.94	127.40
15	AO	116	TYR	CB-CG-CD1	-5.68	117.59	121.00
25	BA	70	C	N3-C2-O2	-5.68	117.92	121.90
25	BA	116	G	N7-C8-N9	5.68	115.94	113.10
26	BB	100	U	O4'-C1'-C2'	-5.68	100.12	105.80
26	BB	500	G	C5'-C4'-C3'	-5.68	106.91	116.00
26	BB	562	U	N3-C4-C5	5.68	118.01	114.60
26	BB	702	U	C5'-C4'-O4'	5.68	115.92	109.10
26	BB	961	C	N3-C2-O2	-5.68	117.92	121.90
26	BB	1878	G	C3'-C2'-C1'	-5.68	96.95	101.50
26	BB	2701	U	O4'-C1'-N1	5.68	112.75	108.20
26	BB	2781	A	O4'-C1'-N9	5.68	112.75	108.20
26	BB	2807	U	C2-N3-C4	-5.68	123.59	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	117	G	N7-C8-N9	5.68	115.94	113.10
1	AA	372	C	C6-N1-C1'	-5.68	113.98	120.80
1	AA	464	U	C3'-C2'-C1'	5.68	106.04	101.50
1	AA	680	C	C4-C5-C6	5.68	120.24	117.40
1	AA	1334	G	C8-N9-C4	-5.68	104.13	106.40
15	AO	27	PRO	N-CD-CG	5.68	111.72	103.20
26	BB	1611	C	C2-N3-C4	5.68	122.74	119.90
26	BB	2033	A	N9-C4-C5	5.68	108.07	105.80
26	BB	2336	A	C5-C6-N6	-5.68	119.16	123.70
26	BB	2571	U	N3-C4-C5	5.68	118.01	114.60
26	BB	2703	C	C5'-C4'-C3'	5.68	125.09	116.00
32	BH	132	LEU	CB-CG-CD1	5.68	120.66	111.00
37	BM	95	ILE	CA-CB-CG1	5.68	121.79	111.00
1	AA	654	G	N7-C8-N9	5.68	115.94	113.10
1	AA	1225	A	N1-C2-N3	5.68	132.14	129.30
3	AC	14	G	C6-N1-C2	-5.68	121.69	125.10
26	BB	195	A	O4'-C4'-C3'	5.68	110.64	106.10
26	BB	656	G	N3-C4-N9	-5.68	122.59	126.00
26	BB	1719	G	C8-N9-C4	-5.68	104.13	106.40
26	BB	2041	U	C6-N1-C2	-5.68	117.59	121.00
46	BV	3	ARG	NE-CZ-NH1	5.68	123.14	120.30
1	AA	322	C	O4'-C1'-N1	5.68	112.74	108.20
26	BB	367	G	C5-N7-C8	-5.68	101.46	104.30
26	BB	1003	G	C6-N1-C2	-5.68	121.69	125.10
26	BB	1022	G	N1-C2-N2	5.68	121.31	116.20
26	BB	2462	C	N3-C4-C5	-5.68	119.63	121.90
1	AA	254	G	N1-C6-O6	5.68	123.31	119.90
1	AA	1204	A	N1-C6-N6	5.68	122.01	118.60
26	BB	390	U	C2-N3-C4	-5.68	123.59	127.00
26	BB	414	C	C4'-C3'-C2'	-5.68	96.92	102.60
26	BB	615	U	C6-N1-C2	-5.68	117.59	121.00
26	BB	1057	A	C5'-C4'-C3'	-5.68	106.92	116.00
26	BB	1262	A	C5-N7-C8	-5.68	101.06	103.90
26	BB	1389	G	N3-C2-N2	5.68	123.87	119.90
26	BB	1406	U	C4-C5-C6	5.68	123.11	119.70
26	BB	1450	G	C6-N1-C2	-5.68	121.69	125.10
26	BB	1552	A	C1'-O4'-C4'	-5.68	105.36	109.90
26	BB	1626	A	C5'-C4'-O4'	5.68	115.91	109.10
26	BB	1820	U	N3-C4-O4	5.68	123.37	119.40
26	BB	2113	U	C4'-C3'-C2'	-5.68	96.92	102.60
26	BB	2604	U	C6-N1-C2	-5.68	117.59	121.00
26	BB	2678	C	C3'-C2'-C1'	5.68	106.04	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1	A	C5'-C4'-C3'	-5.67	106.92	116.00
1	AA	157	U	O4'-C1'-N1	5.67	112.74	108.20
1	AA	168	G	C3'-C2'-C1'	-5.67	96.96	101.50
1	AA	394	G	N7-C8-N9	5.67	115.94	113.10
1	AA	1254	A	N1-C6-N6	-5.67	115.19	118.60
1	AA	1375	A	C5-N7-C8	-5.67	101.06	103.90
2	AB	76	A	C4-C5-C6	5.67	119.84	117.00
4	AD	39	A	C2-N3-C4	5.67	113.44	110.60
26	BB	67	U	N1-C2-N3	5.67	118.31	114.90
26	BB	598	U	C3'-C2'-C1'	-5.67	96.96	101.50
26	BB	979	A	N7-C8-N9	-5.67	110.96	113.80
26	BB	1301	A	N7-C8-N9	-5.67	110.96	113.80
26	BB	1355	G	O4'-C1'-N9	5.67	112.74	108.20
26	BB	1520	U	N3-C4-C5	-5.67	111.19	114.60
26	BB	1737	G	C1'-O4'-C4'	5.67	114.44	109.90
26	BB	1756	G	C4-C5-N7	5.67	113.07	110.80
26	BB	2155	U	N1-C1'-C2'	-5.67	105.76	112.00
26	BB	2439	A	C4-C5-N7	-5.67	107.86	110.70
1	AA	267	C	C2-N3-C4	5.67	122.74	119.90
1	AA	1358	U	C4-C5-C6	5.67	123.10	119.70
4	AD	14	A	C5-N7-C8	5.67	106.74	103.90
26	BB	280	U	O4'-C1'-N1	5.67	112.74	108.20
26	BB	293	U	C4'-C3'-C2'	5.67	108.27	102.60
26	BB	447	A	C8-N9-C4	5.67	108.07	105.80
26	BB	805	G	C8-N9-C4	-5.67	104.13	106.40
26	BB	1277	G	C5-N7-C8	-5.67	101.46	104.30
26	BB	1529	G	C5-C6-N1	5.67	114.34	111.50
26	BB	2780	G	C6-N1-C2	-5.67	121.70	125.10
1	AA	44	A	C5-C6-N1	-5.67	114.86	117.70
1	AA	241	G	C8-N9-C1'	5.67	134.37	127.00
1	AA	316	C	N3-C4-N4	5.67	121.97	118.00
1	AA	824	G	C6-N1-C2	-5.67	121.70	125.10
1	AA	1429	A	C3'-C2'-C1'	-5.67	96.96	101.50
4	AD	64	G	C5'-C4'-O4'	5.67	115.91	109.10
26	BB	164	C	N1-C2-O2	5.67	122.30	118.90
26	BB	174	U	N1-C1'-C2'	-5.67	105.76	112.00
26	BB	550	C	O3'-P-O5'	-5.67	93.22	104.00
26	BB	1008	A	C5-N7-C8	5.67	106.74	103.90
26	BB	1482	G	C4-C5-C6	5.67	122.20	118.80
26	BB	1577	C	C4'-C3'-C2'	-5.67	96.93	102.60
26	BB	1580	A	C2-N3-C4	5.67	113.44	110.60
26	BB	2130	U	C2-N1-C1'	5.67	124.50	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2450	A	C5-C6-N1	-5.67	114.86	117.70
26	BB	2466	C	O4'-C1'-N1	5.67	112.74	108.20
26	BB	2484	G	C8-N9-C4	-5.67	104.13	106.40
40	BP	17	ARG	NE-CZ-NH2	-5.67	117.46	120.30
1	AA	130	A	C2-N3-C4	-5.67	107.77	110.60
3	AC	32	U	C5'-C4'-C3'	-5.67	106.93	116.00
26	BB	237	C	O4'-C1'-N1	5.67	112.74	108.20
26	BB	2116	G	P-O3'-C3'	5.67	126.50	119.70
1	AA	717	U	C4'-C3'-C2'	-5.67	96.93	102.60
1	AA	1290	G	N3-C4-N9	5.67	129.40	126.00
4	AD	9	G	N7-C8-N9	5.67	115.93	113.10
4	AD	35	C	C5-C6-N1	5.67	123.83	121.00
26	BB	177	G	N1-C2-N2	-5.67	111.10	116.20
26	BB	196	A	C5'-C4'-O4'	5.67	115.90	109.10
26	BB	260	G	O4'-C1'-C2'	5.67	112.70	107.60
26	BB	912	C	N3-C4-C5	-5.67	119.63	121.90
26	BB	1250	G	N3-C4-C5	-5.67	125.77	128.60
26	BB	1635	A	C2-N3-C4	5.67	113.43	110.60
26	BB	2240	U	C5-C6-N1	-5.67	119.86	122.70
26	BB	2490	G	N1-C2-N3	5.67	127.30	123.90
26	BB	2664	G	C6-N1-C2	-5.67	121.70	125.10
26	BB	2726	A	N3-C4-C5	-5.67	122.83	126.80
36	BL	124	VAL	CG1-CB-CG2	-5.67	101.83	110.90
37	BM	105	ARG	NE-CZ-NH2	-5.67	117.47	120.30
40	BP	96	ARG	NE-CZ-NH2	5.67	123.14	120.30
1	AA	145	G	C6-N1-C2	-5.67	121.70	125.10
1	AA	424	G	C5-N7-C8	-5.67	101.47	104.30
1	AA	492	C	C4'-C3'-C2'	-5.67	96.93	102.60
1	AA	600	A	N1-C2-N3	-5.67	126.47	129.30
1	AA	951	G	O4'-C4'-C3'	-5.67	98.33	104.00
2	AB	65	C	C5'-C4'-O4'	5.67	115.90	109.10
3	AC	53	G	P-O3'-C3'	5.67	126.50	119.70
26	BB	166	U	N1-C2-N3	5.67	118.30	114.90
26	BB	324	A	C5'-C4'-O4'	5.67	115.90	109.10
26	BB	430	A	C4-C5-N7	5.67	113.53	110.70
26	BB	666	A	C4-C5-C6	-5.67	114.17	117.00
26	BB	985	C	C1'-O4'-C4'	-5.67	105.37	109.90
26	BB	1061	U	N3-C2-O2	-5.67	118.23	122.20
26	BB	1545	A	C6-C5-N7	5.67	136.27	132.30
26	BB	1704	C	O4'-C1'-C2'	5.67	112.70	107.60
26	BB	1760	C	C6-N1-C2	-5.67	118.03	120.30
26	BB	2065	C	N3-C4-N4	5.67	121.97	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2148	G	C6-C5-N7	-5.67	127.00	130.40
26	BB	2759	G	N1-C6-O6	-5.67	116.50	119.90
26	BB	2829	A	N1-C2-N3	5.67	132.13	129.30
1	AA	271	C	C5'-C4'-O4'	5.67	115.90	109.10
1	AA	382	A	C6-N1-C2	5.67	122.00	118.60
1	AA	611	C	C4-C5-C6	-5.67	114.57	117.40
1	AA	1397	C	C6-N1-C2	5.67	122.57	120.30
1	AA	1459	G	P-O5'-C5'	5.67	129.96	120.90
26	BB	86	G	C4-C5-C6	5.67	122.20	118.80
26	BB	180	G	C5-C6-O6	5.67	132.00	128.60
26	BB	269	C	P-O5'-C5'	5.67	129.97	120.90
26	BB	423	A	C4-C5-N7	-5.67	107.87	110.70
26	BB	435	C	N1-C2-N3	5.67	123.17	119.20
26	BB	1159	U	N1-C2-N3	5.67	118.30	114.90
26	BB	1479	G	C5-C6-O6	-5.67	125.20	128.60
26	BB	2157	G	N7-C8-N9	5.67	115.93	113.10
26	BB	2746	U	P-O5'-C5'	5.67	129.96	120.90
51	B0	7	ARG	CD-NE-CZ	5.67	131.53	123.60
52	B1	29	ARG	NE-CZ-NH2	5.67	123.13	120.30
1	AA	379	C	C2-N3-C4	-5.66	117.07	119.90
1	AA	782	A	O4'-C1'-N9	5.66	112.73	108.20
1	AA	939	G	N3-C4-N9	5.66	129.40	126.00
1	AA	1254	A	C5-N7-C8	5.66	106.73	103.90
1	AA	1292	G	N1-C2-N2	5.66	121.30	116.20
24	AX	64	ALA	CB-CA-C	5.66	118.59	110.10
26	BB	19	A	C5-N7-C8	-5.66	101.07	103.90
26	BB	215	G	N3-C4-C5	-5.66	125.77	128.60
26	BB	327	G	C5-C6-N1	-5.66	108.67	111.50
26	BB	695	G	N1-C2-N3	-5.66	120.50	123.90
26	BB	1042	G	C4-C5-N7	-5.66	108.53	110.80
26	BB	1048	A	N1-C6-N6	5.66	122.00	118.60
26	BB	1164	C	N1-C1'-C2'	-5.66	105.77	112.00
26	BB	1491	G	C6-N1-C2	-5.66	121.70	125.10
26	BB	1738	G	N7-C8-N9	5.66	115.93	113.10
26	BB	1739	A	O4'-C1'-N9	5.66	112.73	108.20
26	BB	1801	A	N1-C2-N3	-5.66	126.47	129.30
26	BB	2447	G	C5-C6-N1	5.66	114.33	111.50
26	BB	2644	G	C4-C5-C6	5.66	122.20	118.80
33	BI	27	ARG	NE-CZ-NH2	5.66	123.13	120.30
1	AA	234	C	C2-N3-C4	5.66	122.73	119.90
1	AA	346	G	C5-N7-C8	-5.66	101.47	104.30
26	BB	765	C	N1-C2-N3	-5.66	115.24	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	888	C	C2'-C3'-O3'	5.66	122.76	113.70
26	BB	907	G	C5-C6-O6	-5.66	125.20	128.60
26	BB	1449	G	C5-C6-N1	-5.66	108.67	111.50
26	BB	1466	U	O3'-P-O5'	-5.66	93.24	104.00
1	AA	1099	G	C5-C6-N1	-5.66	108.67	111.50
1	AA	1356	G	C2-N3-C4	5.66	114.73	111.90
1	AA	1459	G	C1'-O4'-C4'	-5.66	105.37	109.90
2	AB	42	G	C1'-O4'-C4'	5.66	114.43	109.90
4	AD	32	G	O4'-C4'-C3'	-5.66	98.34	104.00
9	AI	42	TRP	NE1-CE2-CZ2	5.66	136.63	130.40
25	BA	57	A	C2'-C3'-O3'	5.66	122.76	113.70
26	BB	398	C	C5'-C4'-C3'	-5.66	106.94	116.00
26	BB	926	G	C1'-O4'-C4'	-5.66	105.37	109.90
26	BB	1765	U	N3-C4-O4	5.66	123.36	119.40
26	BB	1826	G	N1-C2-N2	5.66	121.29	116.20
26	BB	2103	C	N3-C4-N4	5.66	121.96	118.00
1	AA	106	C	C5'-C4'-C3'	5.66	125.05	116.00
1	AA	181	A	N7-C8-N9	5.66	116.63	113.80
1	AA	324	G	C2-N3-C4	5.66	114.73	111.90
1	AA	456	A	C5-N7-C8	5.66	106.73	103.90
1	AA	558	G	O4'-C1'-N9	5.66	112.73	108.20
1	AA	656	G	N3-C2-N2	5.66	123.86	119.90
26	BB	505	A	C4-C5-N7	5.66	113.53	110.70
26	BB	619	G	N1-C6-O6	-5.66	116.50	119.90
26	BB	1040	A	C8-N9-C4	-5.66	103.54	105.80
26	BB	2428	G	N9-C1'-C2'	-5.66	105.78	112.00
26	BB	2589	A	C5'-C4'-O4'	5.66	115.89	109.10
26	BB	2661	G	N3-C4-N9	5.66	129.40	126.00
26	BB	2823	A	O4'-C1'-N9	5.66	112.73	108.20
1	AA	131	A	C4-C5-C6	5.66	119.83	117.00
1	AA	234	C	C5-C6-N1	5.66	123.83	121.00
1	AA	1419	G	C5-C6-O6	5.66	131.99	128.60
25	BA	40	U	C6-N1-C2	-5.66	117.61	121.00
26	BB	667	U	N1-C2-N3	5.66	118.29	114.90
26	BB	699	A	N1-C2-N3	5.66	132.13	129.30
26	BB	711	G	C8-N9-C4	5.66	108.66	106.40
26	BB	810	U	P-O3'-C3'	5.66	126.49	119.70
26	BB	1434	A	P-O3'-C3'	5.66	126.49	119.70
26	BB	1498	C	C4'-C3'-C2'	-5.66	96.94	102.60
26	BB	2200	C	N1-C2-N3	-5.66	115.24	119.20
26	BB	2239	G	C1'-O4'-C4'	5.66	114.43	109.90
26	BB	2644	G	C4-C5-N7	5.66	113.06	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2647	U	C3'-C2'-C1'	5.66	106.03	101.50
26	BB	2810	A	N1-C2-N3	-5.66	126.47	129.30
1	AA	273	U	N3-C4-C5	5.66	117.99	114.60
1	AA	461	A	C5'-C4'-C3'	-5.66	106.95	116.00
1	AA	583	A	O4'-C1'-N9	5.66	112.72	108.20
1	AA	615	G	N1-C2-N3	-5.66	120.51	123.90
1	AA	902	G	C5-C6-O6	-5.66	125.21	128.60
3	AC	58	C	C4'-C3'-C2'	5.66	108.25	102.60
26	BB	8	C	C6-N1-C2	5.66	122.56	120.30
26	BB	129	C	C5'-C4'-O4'	5.66	115.89	109.10
26	BB	532	A	N3-C4-N9	5.66	131.93	127.40
26	BB	562	U	N1-C1'-C2'	-5.66	105.78	112.00
26	BB	1067	A	C5-C6-N1	5.66	120.53	117.70
26	BB	1972	G	C5-C6-N1	5.66	114.33	111.50
26	BB	2694	G	N1-C2-N3	5.66	127.29	123.90
37	BM	120	PRO	N-CD-CG	5.66	111.68	103.20
38	BN	64	PHE	CD1-CE1-CZ	5.66	126.89	120.10
1	AA	177	G	O4'-C1'-C2'	-5.65	100.15	105.80
1	AA	403	C	N1-C2-O2	5.65	122.29	118.90
1	AA	787	A	C4-C5-C6	5.65	119.83	117.00
1	AA	845	A	N3-C4-C5	-5.65	122.84	126.80
1	AA	1461	G	C5-C6-O6	-5.65	125.21	128.60
3	AC	28	U	C2-N3-C4	-5.65	123.61	127.00
26	BB	686	U	C5-C4-O4	-5.65	122.51	125.90
26	BB	1296	G	C5-N7-C8	-5.65	101.47	104.30
26	BB	1521	G	O4'-C1'-N9	5.65	112.72	108.20
26	BB	1627	G	C5-C6-N1	5.65	114.33	111.50
39	BO	117	PHE	CZ-CE2-CD2	-5.65	113.32	120.10
1	AA	104	G	N7-C8-N9	5.65	115.93	113.10
1	AA	604	G	C4-C5-C6	5.65	122.19	118.80
1	AA	1099	G	C2-N3-C4	5.65	114.73	111.90
1	AA	1302	C	N1-C2-O2	5.65	122.29	118.90
1	AA	1396	A	C5-C6-N1	5.65	120.53	117.70
16	AP	112	ARG	NE-CZ-NH1	-5.65	117.47	120.30
21	AU	30	ASN	O-C-N	5.65	131.74	122.70
25	BA	17	C	C6-N1-C2	-5.65	118.04	120.30
26	BB	532	A	C5-C6-N1	-5.65	114.87	117.70
26	BB	1111	A	N1-C6-N6	5.65	121.99	118.60
26	BB	1125	G	N3-C4-C5	-5.65	125.77	128.60
26	BB	1154	G	C5'-C4'-O4'	5.65	115.88	109.10
26	BB	1194	A	N9-C1'-C2'	-5.65	105.78	112.00
26	BB	1442	U	N3-C2-O2	-5.65	118.24	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1580	A	N1-C2-N3	-5.65	126.47	129.30
26	BB	1763	G	N7-C8-N9	5.65	115.93	113.10
26	BB	1867	G	O4'-C4'-C3'	5.65	110.62	106.10
26	BB	2415	G	C3'-C2'-C1'	5.65	106.02	101.50
26	BB	2656	U	C5-C4-O4	5.65	129.29	125.90
26	BB	2772	C	O3'-P-O5'	-5.65	93.26	104.00
1	AA	203	G	N3-C2-N2	-5.65	115.94	119.90
1	AA	670	G	C4-C5-N7	-5.65	108.54	110.80
1	AA	732	C	N3-C4-N4	5.65	121.96	118.00
1	AA	887	G	N7-C8-N9	5.65	115.92	113.10
1	AA	1068	G	N3-C4-C5	-5.65	125.77	128.60
1	AA	1108	G	O4'-C1'-C2'	-5.65	100.15	105.80
1	AA	1212	U	C5-C6-N1	5.65	125.53	122.70
1	AA	1249	C	C4'-C3'-C2'	-5.65	96.95	102.60
4	AD	68	C	C4-C5-C6	-5.65	114.58	117.40
26	BB	15	G	C1'-O4'-C4'	5.65	114.42	109.90
26	BB	95	A	C5-C6-N1	5.65	120.53	117.70
26	BB	628	G	C2'-C3'-O3'	5.65	122.74	113.70
26	BB	705	A	O4'-C4'-C3'	5.65	110.62	106.10
26	BB	935	C	C5-C6-N1	5.65	123.83	121.00
26	BB	1660	G	N9-C1'-C2'	-5.65	105.78	112.00
26	BB	1796	U	C3'-C2'-C1'	5.65	106.02	101.50
26	BB	2050	C	C5-C6-N1	-5.65	118.17	121.00
26	BB	2375	G	C3'-C2'-C1'	5.65	106.02	101.50
26	BB	2669	G	C5-N7-C8	-5.65	101.47	104.30
26	BB	2889	C	P-O5'-C5'	5.65	129.94	120.90
1	AA	621	A	C5-N7-C8	5.65	106.72	103.90
1	AA	760	G	C3'-C2'-C1'	-5.65	96.98	101.50
8	AH	111	ARG	NE-CZ-NH1	5.65	123.12	120.30
26	BB	572	A	C1'-O4'-C4'	5.65	114.42	109.90
26	BB	1031	G	O3'-P-O5'	-5.65	93.27	104.00
26	BB	1336	A	N1-C2-N3	-5.65	126.47	129.30
26	BB	1995	U	C4-C5-C6	5.65	123.09	119.70
26	BB	2809	A	C5'-C4'-O4'	5.65	115.88	109.10
1	AA	137	U	N1-C1'-C2'	-5.65	105.79	112.00
1	AA	249	U	C6-N1-C2	-5.65	117.61	121.00
1	AA	522	C	C5-C4-N4	5.65	124.15	120.20
1	AA	778	G	C5'-C4'-C3'	-5.65	106.96	116.00
1	AA	846	G	N1-C6-O6	-5.65	116.51	119.90
1	AA	937	A	C5'-C4'-O4'	5.65	115.88	109.10
26	BB	153	U	O5'-P-OP2	-5.65	100.62	105.70
26	BB	214	G	N1-C6-O6	-5.65	116.51	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	850	U	N3-C4-C5	-5.65	111.21	114.60
26	BB	1054	A	N3-C4-C5	-5.65	122.85	126.80
26	BB	1204	A	C4-C5-N7	5.65	113.52	110.70
26	BB	1250	G	O3'-P-O5'	-5.65	93.27	104.00
26	BB	1391	U	N3-C2-O2	-5.65	118.25	122.20
26	BB	1611	C	N1-C2-N3	-5.65	115.25	119.20
26	BB	1761	C	N3-C4-C5	5.65	124.16	121.90
26	BB	1964	G	C6-C5-N7	5.65	133.79	130.40
26	BB	1972	G	N3-C4-C5	-5.65	125.78	128.60
26	BB	2301	C	C5-C4-N4	5.65	124.15	120.20
26	BB	2623	G	C8-N9-C4	5.65	108.66	106.40
26	BB	2696	U	C4-C5-C6	5.65	123.09	119.70
26	BB	2766	A	C5'-C4'-O4'	5.65	115.88	109.10
26	BB	2876	G	O4'-C4'-C3'	-5.65	98.35	104.00
31	BG	70	ARG	NE-CZ-NH2	5.65	123.12	120.30
38	BN	69	ARG	CA-CB-CG	5.65	125.83	113.40
42	BR	27	VAL	O-C-N	5.65	131.74	122.70
1	AA	129	A	C3'-C2'-C1'	5.65	106.02	101.50
1	AA	654	G	C5-C6-N1	5.65	114.32	111.50
1	AA	937	A	N1-C2-N3	-5.65	126.48	129.30
26	BB	87	U	OP1-P-O3'	5.65	117.62	105.20
26	BB	1879	C	N3-C2-O2	-5.65	117.95	121.90
45	BU	110	ARG	NE-CZ-NH1	-5.65	117.48	120.30
1	AA	33	A	N9-C4-C5	5.64	108.06	105.80
1	AA	301	G	C6-N1-C2	-5.64	121.71	125.10
1	AA	468	A	C2-N3-C4	5.64	113.42	110.60
1	AA	750	C	C5'-C4'-C3'	-5.64	106.97	116.00
3	AC	35	G	N9-C4-C5	5.64	107.66	105.40
4	AD	14	A	O4'-C1'-N9	5.64	112.72	108.20
5	AE	22	TRP	NE1-CE2-CZ2	5.64	136.61	130.40
26	BB	1064	C	N3-C4-C5	-5.64	119.64	121.90
26	BB	1295	C	C3'-C2'-C1'	5.64	106.02	101.50
26	BB	1842	G	C5'-C4'-O4'	5.64	115.87	109.10
26	BB	1903	G	N1-C6-O6	-5.64	116.51	119.90
26	BB	1966	A	O4'-C1'-N9	5.64	112.72	108.20
26	BB	2447	G	C5'-C4'-O4'	5.64	115.87	109.10
26	BB	2668	G	N3-C4-N9	5.64	129.39	126.00
1	AA	429	U	C5-C6-N1	-5.64	119.88	122.70
1	AA	519	C	N3-C4-N4	-5.64	114.05	118.00
1	AA	718	A	N1-C2-N3	-5.64	126.48	129.30
1	AA	799	G	C5-N7-C8	-5.64	101.48	104.30
1	AA	876	C	C6-N1-C2	5.64	122.56	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	918	A	O4'-C1'-N9	5.64	112.71	108.20
1	AA	926	G	N9-C4-C5	5.64	107.66	105.40
26	BB	982	C	C5-C4-N4	5.64	124.15	120.20
26	BB	1450	G	N9-C4-C5	5.64	107.66	105.40
26	BB	1883	U	C5'-C4'-C3'	-5.64	106.97	116.00
26	BB	2010	G	C8-N9-C4	-5.64	104.14	106.40
26	BB	2118	U	N1-C1'-C2'	-5.64	105.79	112.00
26	BB	2269	G	N1-C2-N2	-5.64	111.12	116.20
26	BB	2380	C	C1'-O4'-C4'	-5.64	105.39	109.90
26	BB	2862	G	C6-N1-C2	-5.64	121.71	125.10
1	AA	128	G	N3-C2-N2	-5.64	115.95	119.90
1	AA	1349	A	N9-C4-C5	-5.64	103.54	105.80
13	AM	7	ARG	NE-CZ-NH1	5.64	123.12	120.30
25	BA	40	U	C5-C4-O4	5.64	129.28	125.90
26	BB	30	G	O4'-C1'-C2'	5.64	112.68	107.60
26	BB	335	C	O5'-P-OP1	-5.64	100.62	105.70
26	BB	1469	A	C5-C6-N6	5.64	128.21	123.70
26	BB	1801	A	N7-C8-N9	5.64	116.62	113.80
26	BB	1802	A	C5'-C4'-O4'	5.64	115.87	109.10
1	AA	334	C	C1'-O4'-C4'	-5.64	105.39	109.90
1	AA	683	G	N7-C8-N9	5.64	115.92	113.10
1	AA	972	C	O4'-C4'-C3'	5.64	110.61	106.10
1	AA	1107	C	N3-C4-C5	-5.64	119.64	121.90
1	AA	1304	G	C6-N1-C2	-5.64	121.72	125.10
3	AC	33	A	N3-C4-C5	-5.64	122.85	126.80
26	BB	150	U	N3-C2-O2	-5.64	118.25	122.20
26	BB	274	C	O4'-C1'-N1	5.64	112.71	108.20
26	BB	407	G	C5'-C4'-O4'	-5.64	102.33	109.10
26	BB	537	G	C5-C6-N1	-5.64	108.68	111.50
26	BB	618	G	C5-N7-C8	-5.64	101.48	104.30
26	BB	724	U	N1-C2-O2	-5.64	118.85	122.80
26	BB	807	U	C1'-O4'-C4'	-5.64	105.39	109.90
26	BB	891	G	N1-C2-N2	5.64	121.28	116.20
26	BB	991	C	C5'-C4'-O4'	5.64	115.87	109.10
26	BB	1419	A	N7-C8-N9	-5.64	110.98	113.80
26	BB	1760	C	C5-C6-N1	5.64	123.82	121.00
26	BB	1860	G	C6-N1-C2	-5.64	121.72	125.10
26	BB	2742	G	N1-C2-N3	5.64	127.28	123.90
1	AA	203	G	N1-C2-N2	5.64	121.27	116.20
1	AA	1192	C	N3-C4-C5	-5.64	119.64	121.90
2	AB	57	G	N3-C2-N2	-5.64	115.95	119.90
5	AE	221	ARG	NE-CZ-NH1	5.64	123.12	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	AK	23	ALA	N-CA-CB	-5.64	102.21	110.10
25	BA	3	C	N1-C2-O2	5.64	122.28	118.90
26	BB	244	A	C4'-C3'-C2'	-5.64	96.96	102.60
26	BB	1516	G	C8-N9-C4	-5.64	104.14	106.40
26	BB	1632	A	C5'-C4'-O4'	5.64	115.86	109.10
26	BB	2048	G	C4'-C3'-C2'	-5.64	96.96	102.60
29	BE	80	TRP	CG-CD2-CE3	5.64	138.97	133.90
1	AA	32	A	C6-N1-C2	5.64	121.98	118.60
1	AA	441	A	C5-C6-N1	-5.64	114.88	117.70
1	AA	501	C	C1'-O4'-C4'	5.64	114.41	109.90
1	AA	542	G	N3-C4-N9	5.64	129.38	126.00
1	AA	588	G	C2-N3-C4	5.64	114.72	111.90
1	AA	636	U	C2-N3-C4	-5.64	123.62	127.00
1	AA	672	U	O4'-C1'-N1	5.64	112.71	108.20
1	AA	1190	G	N9-C4-C5	5.64	107.65	105.40
1	AA	1191	A	C5-N7-C8	-5.64	101.08	103.90
1	AA	1504	G	C6-C5-N7	-5.64	127.02	130.40
2	AB	47	U	O4'-C1'-C2'	-5.64	100.16	105.80
26	BB	27	G	C6-C5-N7	-5.64	127.02	130.40
26	BB	614	A	O4'-C1'-N9	5.64	112.71	108.20
26	BB	625	G	C4-C5-N7	-5.64	108.55	110.80
26	BB	697	G	C8-N9-C4	-5.64	104.14	106.40
26	BB	1120	G	C3'-C2'-C1'	5.64	106.01	101.50
26	BB	1610	A	O5'-C5'-C4'	5.64	122.41	111.70
26	BB	1871	A	C1'-O4'-C4'	5.64	114.41	109.90
26	BB	1968	G	C8-N9-C4	-5.64	104.14	106.40
26	BB	2141	G	C4-C5-C6	5.64	122.18	118.80
26	BB	2405	G	C3'-C2'-C1'	5.64	106.01	101.50
26	BB	2513	A	O4'-C1'-N9	5.64	112.71	108.20
26	BB	2717	C	C6-N1-C2	5.64	122.55	120.30
26	BB	2758	A	C4-C5-N7	5.64	113.52	110.70
26	BB	2832	U	N3-C4-C5	-5.64	111.22	114.60
1	AA	353	A	O4'-C1'-C2'	-5.63	100.17	105.80
1	AA	934	C	O4'-C4'-C3'	5.63	110.61	106.10
1	AA	1150	A	N3-C4-N9	5.63	131.91	127.40
1	AA	1329	A	N1-C6-N6	5.63	121.98	118.60
1	AA	1329	A	O4'-C1'-N9	5.63	112.71	108.20
1	AA	1398	A	O4'-C1'-N9	-5.63	103.69	108.20
2	AB	67	G	C1'-O4'-C4'	5.63	114.41	109.90
26	BB	140	C	C4-C5-C6	-5.63	114.58	117.40
26	BB	187	G	C4-N9-C1'	5.63	133.82	126.50
26	BB	486	C	C5-C4-N4	-5.63	116.26	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	510	C	C1'-O4'-C4'	5.63	114.41	109.90
26	BB	611	C	C2'-C3'-O3'	5.63	122.72	113.70
26	BB	612	G	C6-N1-C2	-5.63	121.72	125.10
26	BB	661	A	C5-C6-N1	5.63	120.52	117.70
26	BB	683	U	C4-C5-C6	5.63	123.08	119.70
26	BB	859	G	C5-C6-N1	-5.63	108.68	111.50
26	BB	924	G	C4'-C3'-C2'	-5.63	96.97	102.60
26	BB	1426	G	C4'-C3'-C2'	-5.63	96.97	102.60
26	BB	1713	A	N9-C4-C5	-5.63	103.55	105.80
26	BB	1927	A	C5'-C4'-O4'	5.63	115.86	109.10
36	BL	52	ASP	CB-CG-OD1	-5.63	113.23	118.30
42	BR	100	ARG	NE-CZ-NH2	5.63	123.12	120.30
1	AA	893	C	C6-N1-C2	5.63	122.55	120.30
2	AB	58	A	C5'-C4'-O4'	5.63	115.86	109.10
3	AC	54	U	C5-C4-O4	-5.63	122.52	125.90
4	AD	7	G	N3-C4-C5	-5.63	125.78	128.60
4	AD	74	A	C5-C6-N6	5.63	128.21	123.70
11	AK	113	ARG	NE-CZ-NH2	5.63	123.12	120.30
26	BB	770	G	N3-C4-C5	-5.63	125.78	128.60
26	BB	976	G	N1-C6-O6	5.63	123.28	119.90
26	BB	1363	C	C6-N1-C2	5.63	122.55	120.30
26	BB	1883	U	C3'-C2'-C1'	5.63	106.01	101.50
26	BB	2085	U	C5'-C4'-C3'	-5.63	106.99	116.00
26	BB	2447	G	C3'-C2'-C1'	5.63	106.01	101.50
1	AA	27	G	C6-N1-C2	-5.63	121.72	125.10
1	AA	186	C	O3'-P-O5'	-5.63	93.30	104.00
1	AA	447	G	C4-C5-C6	5.63	122.18	118.80
1	AA	1214	C	C5-C4-N4	5.63	124.14	120.20
1	AA	1219	A	C5'-C4'-C3'	-5.63	106.99	116.00
1	AA	1538	C	N1-C2-N3	-5.63	115.26	119.20
12	AL	100	ALA	N-CA-CB	-5.63	102.22	110.10
22	AV	2	ARG	CD-NE-CZ	5.63	131.49	123.60
26	BB	35	G	N9-C1'-C2'	-5.63	105.81	112.00
26	BB	98	G	C4-C5-N7	-5.63	108.55	110.80
26	BB	667	U	N3-C2-O2	-5.63	118.26	122.20
26	BB	1781	U	C2-N3-C4	5.63	130.38	127.00
26	BB	1805	A	C4-C5-N7	-5.63	107.88	110.70
26	BB	1831	G	C6-C5-N7	-5.63	127.02	130.40
26	BB	1878	G	N1-C2-N2	5.63	121.27	116.20
26	BB	2093	G	C8-N9-C4	-5.63	104.15	106.40
26	BB	2562	U	O4'-C1'-N1	5.63	112.70	108.20
33	BI	53	GLU	OE1-CD-OE2	5.63	130.06	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	391	G	N9-C4-C5	5.63	107.65	105.40
2	AB	33	U	C6-N1-C2	-5.63	117.62	121.00
4	AD	22	A	N3-C4-N9	-5.63	122.90	127.40
4	AD	73	A	N9-C4-C5	-5.63	103.55	105.80
26	BB	9	G	N3-C2-N2	5.63	123.84	119.90
26	BB	607	U	N1-C2-O2	-5.63	118.86	122.80
26	BB	613	A	P-O3'-C3'	5.63	126.46	119.70
26	BB	1521	G	N1-C6-O6	-5.63	116.52	119.90
26	BB	1890	A	C3'-C2'-C1'	-5.63	97.00	101.50
26	BB	2183	A	C5-C6-N6	5.63	128.20	123.70
26	BB	2531	A	C5-N7-C8	5.63	106.72	103.90
26	BB	2589	A	O5'-P-OP2	-5.63	100.63	105.70
26	BB	2593	U	C5'-C4'-O4'	5.63	115.86	109.10
26	BB	2628	C	N1-C2-O2	5.63	122.28	118.90
1	AA	137	U	N3-C4-C5	-5.63	111.22	114.60
1	AA	202	G	C4'-C3'-C2'	-5.63	96.97	102.60
1	AA	572	A	N3-C4-N9	-5.63	122.90	127.40
1	AA	1298	U	O4'-C1'-C2'	-5.63	100.17	105.80
4	AD	19	G	C1'-O4'-C4'	-5.63	105.40	109.90
4	AD	57	C	N1-C2-O2	5.63	122.28	118.90
17	AQ	80	ARG	NE-CZ-NH2	5.63	123.11	120.30
26	BB	108	G	P-O5'-C5'	5.63	129.91	120.90
26	BB	423	A	C6-N1-C2	5.63	121.98	118.60
26	BB	599	A	O4'-C1'-C2'	5.63	112.67	107.60
26	BB	606	U	P-O3'-C3'	5.63	126.45	119.70
26	BB	751	A	C4-C5-C6	-5.63	114.19	117.00
26	BB	815	C	C5'-C4'-C3'	-5.63	106.99	116.00
26	BB	1469	A	C6-C5-N7	-5.63	128.36	132.30
26	BB	1823	G	C1'-O4'-C4'	-5.63	105.40	109.90
26	BB	1953	A	N3-C4-C5	-5.63	122.86	126.80
26	BB	2146	C	N1-C2-N3	-5.63	115.26	119.20
26	BB	2297	A	N1-C6-N6	-5.63	115.22	118.60
26	BB	2303	G	N3-C4-C5	-5.63	125.79	128.60
26	BB	2378	A	N1-C6-N6	-5.63	115.22	118.60
26	BB	2783	U	C5-C6-N1	-5.63	119.89	122.70
1	AA	85	U	C2-N3-C4	-5.63	123.62	127.00
1	AA	155	A	C5-C6-N1	5.63	120.51	117.70
1	AA	522	C	O5'-C5'-C4'	5.63	122.39	111.70
1	AA	855	U	O4'-C1'-C2'	-5.63	100.17	105.80
1	AA	1368	A	N9-C1'-C2'	-5.63	105.81	112.00
2	AB	35	C	O4'-C1'-C2'	-5.63	100.17	105.80
4	AD	77	A	C5-C6-N6	5.63	128.20	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	115	A	C5'-C4'-C3'	-5.63	107.00	116.00
26	BB	4	U	C2-N1-C1'	-5.63	110.95	117.70
26	BB	56	A	O4'-C1'-C2'	5.63	112.66	107.60
26	BB	239	C	C1'-O4'-C4'	5.63	114.40	109.90
26	BB	727	A	C3'-C2'-C1'	5.63	106.00	101.50
26	BB	1043	C	N3-C4-N4	-5.63	114.06	118.00
26	BB	1256	G	N7-C8-N9	5.63	115.91	113.10
26	BB	1396	U	C2-N3-C4	-5.63	123.62	127.00
26	BB	1484	U	N1-C2-N3	5.63	118.28	114.90
26	BB	2567	G	N3-C4-C5	-5.63	125.79	128.60
26	BB	2686	G	N3-C2-N2	-5.63	115.96	119.90
26	BB	2864	G	N1-C6-O6	-5.63	116.52	119.90
1	AA	184	G	C5'-C4'-O4'	5.62	115.85	109.10
1	AA	241	G	C4-N9-C1'	-5.62	119.19	126.50
1	AA	1422	G	C4-C5-C6	5.62	122.17	118.80
4	AD	68	C	N1-C2-N3	-5.62	115.26	119.20
12	AL	10	ARG	NE-CZ-NH1	5.62	123.11	120.30
26	BB	771	G	N3-C4-C5	-5.62	125.79	128.60
26	BB	2110	G	C5'-C4'-O4'	-5.62	102.35	109.10
26	BB	2867	G	C3'-C2'-C1'	-5.62	97.00	101.50
1	AA	490	C	C5-C4-N4	-5.62	116.26	120.20
1	AA	570	G	N9-C4-C5	-5.62	103.15	105.40
1	AA	1296	C	C2-N3-C4	5.62	122.71	119.90
15	AO	8	ARG	C-N-CA	5.62	135.76	121.70
21	AU	63	TYR	CB-CG-CD1	-5.62	117.63	121.00
25	BA	4	C	C5-C4-N4	-5.62	116.26	120.20
25	BA	100	G	N1-C6-O6	-5.62	116.53	119.90
26	BB	155	A	N1-C6-N6	-5.62	115.23	118.60
26	BB	442	G	N9-C4-C5	5.62	107.65	105.40
26	BB	787	C	C5'-C4'-O4'	5.62	115.85	109.10
26	BB	847	U	P-O3'-C3'	5.62	126.45	119.70
26	BB	883	G	C4-C5-C6	-5.62	115.43	118.80
26	BB	1014	A	C6-C5-N7	5.62	136.24	132.30
26	BB	1123	C	C1'-O4'-C4'	5.62	114.40	109.90
26	BB	1619	G	O4'-C1'-N9	-5.62	103.70	108.20
26	BB	1776	G	C5'-C4'-O4'	5.62	115.85	109.10
26	BB	1817	G	N3-C4-C5	-5.62	125.79	128.60
26	BB	2024	G	N9-C4-C5	5.62	107.65	105.40
26	BB	2608	G	O5'-P-OP1	5.62	117.45	110.70
26	BB	2877	G	O4'-C4'-C3'	5.62	110.60	106.10
1	AA	295	C	O4'-C1'-N1	5.62	112.70	108.20
1	AA	388	G	C5-C6-O6	-5.62	125.23	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	406	G	N3-C4-C5	-5.62	125.79	128.60
1	AA	695	A	P-O3'-C3'	5.62	126.45	119.70
1	AA	885	G	C5-C6-O6	-5.62	125.23	128.60
25	BA	52	A	N7-C8-N9	-5.62	110.99	113.80
26	BB	897	C	C3'-C2'-C1'	5.62	106.00	101.50
26	BB	1220	G	N1-C2-N3	5.62	127.27	123.90
26	BB	1419	A	C4-C5-N7	-5.62	107.89	110.70
26	BB	1637	A	C8-N9-C4	-5.62	103.55	105.80
26	BB	2009	A	C3'-C2'-C1'	5.62	106.00	101.50
26	BB	2670	A	N9-C4-C5	5.62	108.05	105.80
26	BB	2736	A	C5'-C4'-O4'	5.62	115.85	109.10
1	AA	1146	A	N9-C4-C5	-5.62	103.55	105.80
25	BA	56	G	O4'-C4'-C3'	5.62	110.60	106.10
26	BB	24	G	C5-C6-O6	-5.62	125.23	128.60
26	BB	334	C	P-O3'-C3'	5.62	126.44	119.70
26	BB	489	G	C6-C5-N7	5.62	133.77	130.40
26	BB	1143	A	O3'-P-O5'	-5.62	93.32	104.00
26	BB	1382	G	N7-C8-N9	5.62	115.91	113.10
26	BB	2093	G	C5-C6-N1	5.62	114.31	111.50
26	BB	2674	G	C1'-O4'-C4'	-5.62	105.40	109.90
1	AA	7	A	N9-C4-C5	5.62	108.05	105.80
1	AA	294	U	N1-C2-N3	5.62	118.27	114.90
1	AA	551	U	C5-C4-O4	-5.62	122.53	125.90
1	AA	833	G	C4'-C3'-C2'	-5.62	96.98	102.60
1	AA	963	G	N3-C4-N9	5.62	129.37	126.00
1	AA	1151	A	N3-C4-C5	5.62	130.73	126.80
1	AA	1238	A	C1'-O4'-C4'	5.62	114.39	109.90
3	AC	49	U	C5'-C4'-O4'	5.62	115.84	109.10
8	AH	68	ARG	NH1-CZ-NH2	-5.62	113.22	119.40
25	BA	39	A	C2-N3-C4	-5.62	107.79	110.60
26	BB	573	U	C5'-C4'-O4'	5.62	115.84	109.10
26	BB	712	G	N9-C4-C5	5.62	107.65	105.40
26	BB	780	G	C5-N7-C8	-5.62	101.49	104.30
26	BB	2234	G	N1-C2-N3	-5.62	120.53	123.90
26	BB	2472	G	N1-C2-N3	5.62	127.27	123.90
1	AA	102	G	N1-C2-N2	-5.62	111.14	116.20
1	AA	115	G	N9-C4-C5	5.62	107.65	105.40
1	AA	291	U	N3-C2-O2	-5.62	118.27	122.20
1	AA	1102	A	N9-C4-C5	-5.62	103.55	105.80
18	AR	87	ARG	NE-CZ-NH1	5.62	123.11	120.30
26	BB	1279	G	C5-N7-C8	5.62	107.11	104.30
26	BB	1763	G	N3-C2-N2	5.62	123.83	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2217	G	N3-C2-N2	5.62	123.83	119.90
28	BD	105	ALA	N-CA-CB	5.62	117.96	110.10
38	BN	116	VAL	CA-CB-CG2	5.62	119.33	110.90
1	AA	114	U	N1-C2-O2	5.62	126.73	122.80
1	AA	242	G	C8-N9-C1'	5.62	134.30	127.00
1	AA	1219	A	N1-C6-N6	5.62	121.97	118.60
6	AF	171	ARG	NH1-CZ-NH2	-5.62	113.22	119.40
18	AR	52	ARG	NE-CZ-NH1	-5.62	117.49	120.30
25	BA	15	A	N9-C4-C5	5.62	108.05	105.80
26	BB	33	C	N3-C4-N4	5.62	121.93	118.00
26	BB	105	C	O4'-C1'-C2'	-5.62	100.19	105.80
26	BB	147	C	N1-C1'-C2'	-5.62	105.82	112.00
26	BB	301	G	N1-C6-O6	5.62	123.27	119.90
26	BB	302	C	C2-N3-C4	5.62	122.71	119.90
26	BB	513	A	C8-N9-C4	-5.62	103.55	105.80
26	BB	636	G	C8-N9-C4	5.62	108.65	106.40
26	BB	905	A	C5'-C4'-O4'	5.62	115.84	109.10
26	BB	1092	C	N3-C4-C5	5.62	124.15	121.90
26	BB	1434	A	C5-C6-N6	-5.62	119.21	123.70
26	BB	1488	C	C5'-C4'-O4'	5.62	115.84	109.10
26	BB	1827	U	N3-C4-C5	-5.62	111.23	114.60
26	BB	2183	A	C5'-C4'-O4'	5.62	115.84	109.10
26	BB	2624	G	C3'-C2'-C1'	-5.62	97.01	101.50
26	BB	2635	A	N7-C8-N9	5.62	116.61	113.80
26	BB	2828	G	N1-C6-O6	-5.62	116.53	119.90
26	BB	2860	A	C2-N3-C4	-5.62	107.79	110.60
1	AA	174	A	C2-N3-C4	5.61	113.41	110.60
1	AA	262	A	C5-C6-N6	-5.61	119.21	123.70
1	AA	412	A	N3-C4-C5	-5.61	122.87	126.80
1	AA	693	G	C6-C5-N7	-5.61	127.03	130.40
1	AA	935	A	C8-N9-C4	-5.61	103.56	105.80
1	AA	1009	U	C3'-C2'-C1'	-5.61	97.01	101.50
1	AA	1142	G	C6-N1-C2	-5.61	121.73	125.10
1	AA	1385	G	C5-C6-O6	5.61	131.97	128.60
25	BA	60	C	C6-N1-C2	-5.61	118.05	120.30
26	BB	205	G	N1-C6-O6	-5.61	116.53	119.90
26	BB	551	G	C2'-C3'-O3'	5.61	122.68	113.70
26	BB	700	G	O4'-C1'-N9	5.61	112.69	108.20
26	BB	753	A	C3'-C2'-C1'	-5.61	97.01	101.50
26	BB	791	C	C5-C6-N1	5.61	123.81	121.00
26	BB	1043	C	N3-C2-O2	-5.61	117.97	121.90
26	BB	1537	G	N3-C2-N2	-5.61	115.97	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1542	U	N1-C2-N3	5.61	118.27	114.90
26	BB	1614	A	C5-N7-C8	-5.61	101.09	103.90
26	BB	1653	G	N3-C4-C5	-5.61	125.79	128.60
26	BB	2034	U	N1-C2-N3	5.61	118.27	114.90
26	BB	2081	U	C1'-O4'-C4'	5.61	114.39	109.90
26	BB	2140	G	C5-C6-O6	-5.61	125.23	128.60
26	BB	2396	G	N9-C1'-C2'	-5.61	105.83	112.00
26	BB	2410	G	C5-C6-N1	5.61	114.31	111.50
49	BY	29	SER	N-CA-CB	-5.61	102.08	110.50
25	BA	22	U	C3'-C2'-C1'	-5.61	97.01	101.50
26	BB	247	G	O3'-P-O5'	-5.61	93.34	104.00
26	BB	858	G	C5-N7-C8	-5.61	101.49	104.30
26	BB	1039	A	C5-C6-N1	5.61	120.51	117.70
26	BB	2056	G	N3-C2-N2	-5.61	115.97	119.90
1	AA	263	A	C2-N3-C4	5.61	113.41	110.60
1	AA	394	G	N9-C1'-C2'	-5.61	105.83	112.00
1	AA	410	G	N1-C6-O6	5.61	123.27	119.90
1	AA	1321	U	C5-C6-N1	5.61	125.50	122.70
1	AA	1511	G	O4'-C1'-N9	5.61	112.69	108.20
25	BA	38	C	N3-C2-O2	-5.61	117.97	121.90
26	BB	42	A	C4'-C3'-C2'	-5.61	96.99	102.60
26	BB	912	C	C4-C5-C6	-5.61	114.59	117.40
26	BB	1207	C	C4'-C3'-C2'	5.61	108.21	102.60
26	BB	1236	G	C8-N9-C4	-5.61	104.16	106.40
26	BB	1298	C	C5'-C4'-O4'	5.61	115.83	109.10
26	BB	1313	U	N1-C2-N3	5.61	118.27	114.90
26	BB	1534	U	N3-C4-C5	5.61	117.97	114.60
26	BB	1663	G	C3'-C2'-C1'	5.61	105.99	101.50
26	BB	1825	U	C2-N1-C1'	-5.61	110.97	117.70
26	BB	1945	G	C5'-C4'-O4'	5.61	115.83	109.10
26	BB	2627	G	C8-N9-C4	5.61	108.64	106.40
26	BB	2649	C	N3-C4-C5	-5.61	119.66	121.90
26	BB	2694	G	N1-C2-N2	-5.61	111.15	116.20
33	BI	142	VAL	CA-CB-CG2	5.61	119.32	110.90
1	AA	1309	G	C4-C5-C6	5.61	122.17	118.80
1	AA	1507	A	C6-C5-N7	5.61	136.23	132.30
26	BB	795	C	N1-C2-O2	5.61	122.27	118.90
26	BB	1648	U	N1-C2-N3	-5.61	111.53	114.90
26	BB	2481	G	N1-C6-O6	5.61	123.27	119.90
29	BE	100	LEU	CB-CG-CD2	-5.61	101.46	111.00
31	BG	31	GLU	OE1-CD-OE2	5.61	130.03	123.30
49	BY	52	CYS	CA-CB-SG	-5.61	103.90	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	581	G	N1-C6-O6	-5.61	116.54	119.90
1	AA	715	A	C4-C5-N7	-5.61	107.90	110.70
1	AA	818	G	C8-N9-C1'	5.61	134.29	127.00
1	AA	1081	A	O4'-C1'-C2'	5.61	112.65	107.60
1	AA	1230	C	O4'-C4'-C3'	-5.61	98.39	104.00
1	AA	1334	G	N9-C4-C5	5.61	107.64	105.40
1	AA	1356	G	C4-C5-C6	-5.61	115.44	118.80
13	AM	48	ARG	CD-NE-CZ	5.61	131.45	123.60
25	BA	13	G	C8-N9-C4	-5.61	104.16	106.40
26	BB	95	A	N1-C2-N3	5.61	132.10	129.30
26	BB	194	G	N1-C2-N3	5.61	127.26	123.90
26	BB	530	G	N1-C2-N3	-5.61	120.53	123.90
26	BB	941	A	C5-C6-N1	5.61	120.50	117.70
26	BB	945	A	C4-C5-C6	-5.61	114.20	117.00
26	BB	1096	A	C5-N7-C8	-5.61	101.10	103.90
26	BB	1120	G	N1-C2-N2	-5.61	111.15	116.20
26	BB	1244	A	P-O3'-C3'	5.61	126.43	119.70
26	BB	2122	U	O4'-C1'-N1	5.61	112.69	108.20
26	BB	2280	G	N1-C2-N3	5.61	127.27	123.90
26	BB	2612	C	C5'-C4'-O4'	5.61	115.83	109.10
1	AA	9	G	C1'-O4'-C4'	-5.61	105.42	109.90
1	AA	95	C	N1-C2-O2	5.61	122.26	118.90
1	AA	150	U	O4'-C1'-N1	5.61	112.69	108.20
1	AA	893	C	N3-C2-O2	-5.61	117.98	121.90
1	AA	1119	C	P-O5'-C5'	5.61	129.87	120.90
1	AA	1128	C	C4'-C3'-C2'	-5.61	96.99	102.60
1	AA	1490	U	P-O5'-C5'	5.61	129.87	120.90
5	AE	144	GLU	OE1-CD-OE2	5.61	130.03	123.30
26	BB	1089	A	O4'-C4'-C3'	5.61	110.58	106.10
26	BB	1184	U	C4-C5-C6	5.61	123.06	119.70
26	BB	2056	G	C5'-C4'-O4'	5.61	115.83	109.10
26	BB	2427	C	C5-C6-N1	5.61	123.80	121.00
26	BB	2781	A	N9-C1'-C2'	-5.61	105.83	112.00
26	BB	2879	A	C6-N1-C2	5.61	121.96	118.60
26	BB	695	G	N3-C2-N2	-5.60	115.98	119.90
26	BB	1404	C	C4'-C3'-C2'	-5.60	97.00	102.60
26	BB	1674	G	C5-C6-N1	5.60	114.30	111.50
26	BB	1764	C	C5-C6-N1	5.60	123.80	121.00
26	BB	1828	G	C3'-C2'-C1'	-5.60	97.02	101.50
1	AA	13	U	P-O3'-C3'	5.60	126.42	119.70
1	AA	148	G	C1'-O4'-C4'	-5.60	105.42	109.90
1	AA	472	U	N3-C2-O2	-5.60	118.28	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	763	G	P-O3'-C3'	5.60	126.42	119.70
1	AA	1088	G	N7-C8-N9	-5.60	110.30	113.10
1	AA	1329	A	N7-C8-N9	5.60	116.60	113.80
1	AA	1341	U	C5-C4-O4	-5.60	122.54	125.90
2	AB	31	U	N3-C2-O2	-5.60	118.28	122.20
3	AC	14	G	N3-C4-N9	5.60	129.36	126.00
9	AI	41	ASP	CB-CG-OD2	-5.60	113.26	118.30
26	BB	103	A	C5-C6-N6	5.60	128.18	123.70
26	BB	237	C	OP1-P-OP2	5.60	128.00	119.60
26	BB	1083	U	N3-C2-O2	-5.60	118.28	122.20
26	BB	1283	G	C5-C6-N1	-5.60	108.70	111.50
26	BB	1356	G	C6-N1-C2	5.60	128.46	125.10
26	BB	1746	A	C2-N3-C4	5.60	113.40	110.60
26	BB	1794	A	N1-C6-N6	-5.60	115.24	118.60
26	BB	2057	G	O4'-C1'-N9	5.60	112.68	108.20
26	BB	2155	U	N1-C2-O2	5.60	126.72	122.80
26	BB	2290	G	C5'-C4'-C3'	-5.60	107.04	116.00
26	BB	2397	G	N1-C2-N3	-5.60	120.54	123.90
26	BB	2625	G	N1-C6-O6	-5.60	116.54	119.90
26	BB	2661	G	O4'-C1'-N9	5.60	112.68	108.20
26	BB	2679	A	C4-C5-C6	-5.60	114.20	117.00
26	BB	2726	A	C4'-C3'-C2'	5.60	108.20	102.60
46	BV	12	ARG	CD-NE-CZ	-5.60	115.76	123.60
26	BB	257	C	N1-C1'-C2'	-5.60	105.84	112.00
26	BB	1139	G	N9-C1'-C2'	-5.60	105.84	112.00
26	BB	1456	G	C1'-O4'-C4'	-5.60	105.42	109.90
26	BB	2087	G	C6-N1-C2	-5.60	121.74	125.10
26	BB	2242	G	N3-C4-N9	5.60	129.36	126.00
1	AA	443	C	O4'-C1'-N1	5.60	112.68	108.20
1	AA	588	G	C5-N7-C8	-5.60	101.50	104.30
1	AA	691	G	N9-C4-C5	5.60	107.64	105.40
1	AA	791	G	N1-C6-O6	-5.60	116.54	119.90
1	AA	901	A	C4-C5-N7	-5.60	107.90	110.70
1	AA	1283	U	O4'-C1'-N1	5.60	112.68	108.20
3	AC	35	G	N9-C1'-C2'	-5.60	105.84	112.00
26	BB	77	G	C5-C6-N1	5.60	114.30	111.50
26	BB	367	G	C6-N1-C2	-5.60	121.74	125.10
26	BB	443	A	P-O3'-C3'	5.60	126.42	119.70
26	BB	607	U	C5-C6-N1	-5.60	119.90	122.70
26	BB	619	G	O4'-C4'-C3'	-5.60	98.40	104.00
26	BB	1299	G	C1'-O4'-C4'	5.60	114.38	109.90
26	BB	1329	U	OP1-P-OP2	-5.60	111.20	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1396	U	P-O3'-C3'	5.60	126.42	119.70
26	BB	1779	U	C5-C6-N1	-5.60	119.90	122.70
26	BB	2125	G	N1-C6-O6	5.60	123.26	119.90
26	BB	2249	U	O4'-C4'-C3'	5.60	110.58	106.10
26	BB	2743	U	N1-C1'-C2'	-5.60	105.84	112.00
26	BB	2791	G	N7-C8-N9	5.60	115.90	113.10
1	AA	177	G	N7-C8-N9	5.60	115.90	113.10
1	AA	361	G	N1-C2-N2	5.60	121.24	116.20
1	AA	1058	G	C4'-C3'-C2'	5.60	108.20	102.60
13	AM	60	ASP	CB-CG-OD2	-5.60	113.26	118.30
26	BB	309	A	C8-N9-C4	-5.60	103.56	105.80
26	BB	340	A	N7-C8-N9	-5.60	111.00	113.80
26	BB	532	A	N3-C4-C5	-5.60	122.88	126.80
26	BB	563	A	C5-C6-N1	5.60	120.50	117.70
26	BB	1016	G	O4'-C4'-C3'	5.60	110.58	106.10
26	BB	2102	G	C4-C5-N7	-5.60	108.56	110.80
26	BB	2158	A	N3-C4-N9	-5.60	122.92	127.40
26	BB	2372	U	C5-C6-N1	-5.60	119.90	122.70
26	BB	2382	G	O4'-C1'-N9	5.60	112.68	108.20
26	BB	2456	C	C3'-C2'-C1'	5.60	105.98	101.50
26	BB	2801	G	C5-C6-O6	5.60	131.96	128.60
39	BO	31	PHE	CB-CG-CD1	5.60	124.72	120.80
1	AA	105	G	C4'-C3'-C2'	-5.60	97.00	102.60
1	AA	403	C	N1-C1'-C2'	-5.60	105.84	112.00
1	AA	802	A	N9-C4-C5	-5.60	103.56	105.80
1	AA	958	A	N9-C4-C5	-5.60	103.56	105.80
26	BB	476	G	N3-C2-N2	5.60	123.82	119.90
26	BB	773	U	OP1-P-OP2	-5.60	111.21	119.60
26	BB	1584	U	C2-N3-C4	-5.60	123.64	127.00
26	BB	1826	G	C4'-C3'-C2'	-5.60	97.00	102.60
26	BB	1897	G	N3-C4-N9	5.60	129.36	126.00
47	BW	80	ASP	CB-CG-OD1	5.60	123.34	118.30
1	AA	301	G	N1-C2-N2	-5.59	111.16	116.20
1	AA	429	U	C4-C5-C6	5.59	123.06	119.70
1	AA	646	G	C4-N9-C1'	-5.59	119.23	126.50
1	AA	712	A	C2-N3-C4	5.59	113.40	110.60
26	BB	23	G	O4'-C1'-N9	5.59	112.68	108.20
26	BB	33	C	C5-C6-N1	5.59	123.80	121.00
26	BB	488	G	O5'-C5'-C4'	-5.59	101.07	111.70
26	BB	539	G	N3-C2-N2	-5.59	115.98	119.90
26	BB	856	G	C3'-C2'-C1'	5.59	105.97	101.50
26	BB	1385	A	C5-N7-C8	-5.59	101.10	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1936	A	C2-N3-C4	-5.59	107.80	110.60
26	BB	1981	A	N7-C8-N9	5.59	116.60	113.80
26	BB	2119	A	C2-N3-C4	5.59	113.40	110.60
26	BB	2164	C	C3'-C2'-C1'	5.59	105.98	101.50
26	BB	2480	C	N1-C2-O2	5.59	122.26	118.90
26	BB	2687	U	C5'-C4'-O4'	5.59	115.81	109.10
43	BS	109	VAL	CG1-CB-CG2	-5.59	101.95	110.90
1	AA	438	U	O4'-C1'-N1	5.59	112.67	108.20
1	AA	881	G	N3-C2-N2	-5.59	115.98	119.90
1	AA	936	C	C2-N3-C4	5.59	122.70	119.90
1	AA	1252	A	C6-N1-C2	-5.59	115.24	118.60
26	BB	369	U	C5-C4-O4	-5.59	122.54	125.90
26	BB	488	G	C5-C6-O6	5.59	131.96	128.60
26	BB	752	A	N9-C4-C5	5.59	108.04	105.80
26	BB	1790	C	C5'-C4'-C3'	-5.59	107.05	116.00
26	BB	2608	G	C6-C5-N7	-5.59	127.04	130.40
26	BB	2688	G	C5-N7-C8	5.59	107.10	104.30
26	BB	2806	C	N3-C4-C5	-5.59	119.66	121.90
44	BT	54	VAL	CA-CB-CG1	5.59	119.29	110.90
1	AA	1155	A	N7-C8-N9	5.59	116.60	113.80
1	AA	1198	G	C1'-O4'-C4'	-5.59	105.43	109.90
3	AC	35	G	N1-C2-N2	5.59	121.23	116.20
11	AK	2	MET	CG-SD-CE	5.59	109.15	100.20
25	BA	20	G	N1-C2-N3	-5.59	120.55	123.90
26	BB	374	A	C3'-C2'-C1'	-5.59	97.03	101.50
26	BB	502	A	N7-C8-N9	5.59	116.60	113.80
26	BB	876	C	O4'-C4'-C3'	5.59	110.57	106.10
26	BB	2304	G	N9-C4-C5	-5.59	103.16	105.40
26	BB	2570	G	C5-C6-N1	5.59	114.30	111.50
1	AA	82	G	N1-C6-O6	5.59	123.25	119.90
1	AA	657	U	C1'-O4'-C4'	5.59	114.37	109.90
1	AA	1099	G	O4'-C1'-N9	5.59	112.67	108.20
1	AA	1204	A	C5'-C4'-O4'	5.59	115.81	109.10
3	AC	53	G	N3-C4-N9	5.59	129.35	126.00
4	AD	71	G	N9-C1'-C2'	-5.59	105.85	112.00
6	AF	131	ARG	NE-CZ-NH1	5.59	123.09	120.30
26	BB	246	C	N3-C4-C5	-5.59	119.66	121.90
26	BB	1071	G	N3-C4-N9	5.59	129.35	126.00
26	BB	1144	A	N1-C2-N3	-5.59	126.50	129.30
26	BB	1216	G	N3-C4-N9	5.59	129.35	126.00
26	BB	1528	A	C5-N7-C8	5.59	106.69	103.90
26	BB	1813	G	N7-C8-N9	-5.59	110.31	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1867	G	C8-N9-C4	-5.59	104.16	106.40
26	BB	1896	G	N9-C4-C5	5.59	107.64	105.40
26	BB	2025	C	N3-C2-O2	-5.59	117.99	121.90
26	BB	2087	G	C5-C6-O6	-5.59	125.25	128.60
26	BB	2235	G	O5'-C5'-C4'	-5.59	101.08	111.70
37	BM	78	ARG	NE-CZ-NH1	5.59	123.09	120.30
1	AA	1036	A	N1-C2-N3	-5.59	126.51	129.30
1	AA	1086	U	C6-N1-C2	-5.59	117.65	121.00
2	AB	59	G	N3-C2-N2	5.59	123.81	119.90
10	AJ	160	SER	CB-CA-C	5.59	120.72	110.10
25	BA	22	U	C6-N1-C2	-5.59	117.65	121.00
26	BB	180	G	N3-C2-N2	-5.59	115.99	119.90
26	BB	282	A	O4'-C1'-N9	5.59	112.67	108.20
26	BB	315	G	N9-C4-C5	5.59	107.64	105.40
26	BB	384	A	C1'-O4'-C4'	-5.59	105.43	109.90
26	BB	927	A	C8-N9-C4	-5.59	103.56	105.80
26	BB	1840	G	O4'-C1'-N9	5.59	112.67	108.20
26	BB	2246	G	C2-N3-C4	5.59	114.69	111.90
26	BB	2357	G	C2-N3-C4	5.59	114.69	111.90
1	AA	441	A	C2-N3-C4	-5.59	107.81	110.60
4	AD	38	A	C6-N1-C2	-5.59	115.25	118.60
25	BA	61	G	N9-C1'-C2'	-5.59	105.86	112.00
26	BB	820	A	C3'-C2'-C1'	-5.59	97.03	101.50
26	BB	1351	C	C3'-C2'-C1'	5.59	105.97	101.50
26	BB	1505	A	N7-C8-N9	5.59	116.59	113.80
26	BB	2106	U	P-O3'-C3'	5.59	126.40	119.70
26	BB	2226	C	C5-C6-N1	5.59	123.79	121.00
26	BB	2294	G	C4-C5-C6	5.59	122.15	118.80
26	BB	2569	G	C2-N3-C4	5.59	114.69	111.90
26	BB	2780	G	C8-N9-C4	-5.59	104.17	106.40
1	AA	266	G	C5-C6-O6	-5.58	125.25	128.60
1	AA	1342	C	N1-C2-O2	5.58	122.25	118.90
1	AA	1512	U	C5-C4-O4	-5.58	122.55	125.90
26	BB	176	A	P-O5'-C5'	5.58	129.84	120.90
26	BB	481	G	N3-C4-C5	-5.58	125.81	128.60
26	BB	602	A	C5'-C4'-O4'	5.58	115.80	109.10
26	BB	794	A	C5-C6-N1	-5.58	114.91	117.70
26	BB	1045	C	C2-N3-C4	5.58	122.69	119.90
26	BB	1210	G	C4'-C3'-C2'	5.58	108.19	102.60
26	BB	1677	A	C5-C6-N6	-5.58	119.23	123.70
26	BB	1984	G	N3-C4-N9	5.58	129.35	126.00
1	AA	272	C	C2-N3-C4	5.58	122.69	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	500	G	C1'-O4'-C4'	-5.58	105.43	109.90
1	AA	1300	G	P-O5'-C5'	5.58	129.83	120.90
1	AA	1494	G	N1-C6-O6	5.58	123.25	119.90
26	BB	181	A	C2-N3-C4	5.58	113.39	110.60
26	BB	289	G	C4-C5-N7	-5.58	108.57	110.80
26	BB	1033	U	N1-C2-N3	5.58	118.25	114.90
26	BB	1351	C	N1-C2-O2	5.58	122.25	118.90
26	BB	1623	G	C8-N9-C4	-5.58	104.17	106.40
26	BB	1907	G	N1-C2-N2	5.58	121.22	116.20
26	BB	2168	G	N3-C4-N9	5.58	129.35	126.00
26	BB	2337	G	C3'-C2'-C1'	-5.58	97.03	101.50
26	BB	2470	G	C4-C5-C6	-5.58	115.45	118.80
1	AA	11	G	C4'-C3'-C2'	-5.58	97.02	102.60
1	AA	109	A	C4'-C3'-C2'	-5.58	97.02	102.60
1	AA	343	U	P-O3'-C3'	5.58	126.40	119.70
1	AA	642	A	N1-C2-N3	-5.58	126.51	129.30
1	AA	1007	U	N1-C1'-C2'	5.58	121.26	114.00
1	AA	1179	A	C5'-C4'-O4'	5.58	115.80	109.10
1	AA	1333	A	C5-C6-N1	5.58	120.49	117.70
2	AB	31	U	O4'-C1'-C2'	5.58	112.62	107.60
2	AB	68	C	O4'-C1'-N1	5.58	112.67	108.20
3	AC	39	U	C4'-C3'-O3'	5.58	124.16	113.00
26	BB	23	G	C5'-C4'-O4'	5.58	115.80	109.10
26	BB	599	A	C3'-C2'-C1'	-5.58	97.03	101.50
26	BB	1389	G	C8-N9-C4	-5.58	104.17	106.40
26	BB	2068	U	C5-C6-N1	-5.58	119.91	122.70
26	BB	2151	U	N3-C2-O2	-5.58	118.29	122.20
26	BB	2238	G	N3-C4-N9	5.58	129.35	126.00
26	BB	2614	A	C2-N3-C4	5.58	113.39	110.60
26	BB	2707	U	C6-N1-C2	-5.58	117.65	121.00
1	AA	177	G	O4'-C4'-C3'	-5.58	98.42	104.00
1	AA	1122	U	C6-N1-C2	-5.58	117.65	121.00
1	AA	1415	G	N9-C4-C5	5.58	107.63	105.40
26	BB	2527	C	C5-C6-N1	-5.58	118.21	121.00
1	AA	297	G	N9-C4-C5	5.58	107.63	105.40
1	AA	1150	A	C2-N3-C4	5.58	113.39	110.60
25	BA	32	U	N3-C4-C5	5.58	117.95	114.60
26	BB	522	A	N9-C1'-C2'	-5.58	105.86	112.00
26	BB	523	C	C4-C5-C6	-5.58	114.61	117.40
26	BB	886	A	C6-C5-N7	-5.58	128.40	132.30
26	BB	935	C	N3-C4-C5	5.58	124.13	121.90
26	BB	1138	G	C4-C5-N7	5.58	113.03	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1161	C	N3-C4-N4	5.58	121.91	118.00
26	BB	1534	U	O4'-C4'-C3'	5.58	110.56	106.10
26	BB	1993	U	N1-C2-N3	5.58	118.25	114.90
26	BB	2025	C	C3'-C2'-C1'	-5.58	97.04	101.50
26	BB	2105	U	C4-C5-C6	5.58	123.05	119.70
26	BB	2290	G	C4-C5-N7	5.58	113.03	110.80
26	BB	2574	G	C5-C6-N1	5.58	114.29	111.50
26	BB	2765	A	C8-N9-C4	-5.58	103.57	105.80
26	BB	2850	A	C5-N7-C8	5.58	106.69	103.90
42	BR	58	PHE	CG-CD2-CE2	-5.58	114.66	120.80
1	AA	152	A	O4'-C1'-N9	5.58	112.66	108.20
1	AA	389	A	C1'-O4'-C4'	-5.58	105.44	109.90
1	AA	453	G	C8-N9-C4	-5.58	104.17	106.40
1	AA	1472	U	N1-C2-N3	5.58	118.25	114.90
2	AB	3	G	N9-C1'-C2'	-5.58	105.86	112.00
11	AK	52	GLY	C-N-CA	5.58	135.64	121.70
26	BB	22	C	N3-C4-N4	5.58	121.90	118.00
26	BB	276	U	C2-N1-C1'	5.58	124.39	117.70
26	BB	297	G	C5-C6-N1	5.58	114.29	111.50
26	BB	358	U	N1-C2-N3	5.58	118.25	114.90
26	BB	512	G	N1-C2-N3	-5.58	120.55	123.90
26	BB	1276	A	N1-C6-N6	-5.58	115.25	118.60
26	BB	1885	A	C1'-O4'-C4'	5.58	114.36	109.90
1	AA	39	G	N9-C4-C5	5.58	107.63	105.40
1	AA	283	U	C4-C5-C6	5.58	123.05	119.70
1	AA	410	G	C3'-C2'-C1'	5.58	105.96	101.50
1	AA	1502	A	C4'-C3'-C2'	-5.58	97.02	102.60
26	BB	68	G	C5-C6-N1	5.58	114.29	111.50
26	BB	346	A	C4-C5-N7	-5.58	107.91	110.70
26	BB	1206	G	C1'-O4'-C4'	-5.58	105.44	109.90
26	BB	2402	U	N1-C2-N3	5.58	118.25	114.90
26	BB	2407	A	O4'-C1'-N9	5.58	112.66	108.20
26	BB	2501	C	N3-C2-O2	-5.58	118.00	121.90
26	BB	2608	G	N9-C1'-C2'	-5.58	105.87	112.00
1	AA	69	G	C5-C6-N1	5.57	114.29	111.50
1	AA	241	G	O4'-C1'-N9	5.57	112.66	108.20
1	AA	457	G	C8-N9-C4	-5.57	104.17	106.40
1	AA	957	U	P-O3'-C3'	5.57	126.39	119.70
1	AA	1231	G	O4'-C1'-C2'	5.57	112.61	107.60
1	AA	1279	G	C1'-O4'-C4'	-5.57	105.44	109.90
1	AA	1486	G	C5'-C4'-O4'	5.57	115.79	109.10
2	AB	12	U	C4'-C3'-C2'	-5.57	97.03	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	718	A	C1'-O4'-C4'	-5.57	105.44	109.90
26	BB	950	G	C4-C5-C6	5.57	122.14	118.80
26	BB	1036	G	O4'-C1'-N9	5.57	112.66	108.20
26	BB	1071	G	N9-C1'-C2'	-5.57	105.87	112.00
26	BB	1445	G	N3-C4-C5	-5.57	125.81	128.60
26	BB	1464	G	O5'-C5'-C4'	-5.57	101.11	111.70
26	BB	1817	G	C6-C5-N7	-5.57	127.06	130.40
26	BB	1896	G	C8-N9-C1'	5.57	134.25	127.00
26	BB	2021	C	C6-N1-C2	5.57	122.53	120.30
26	BB	2096	C	C4-C5-C6	5.57	120.19	117.40
26	BB	2314	A	C2-N3-C4	5.57	113.39	110.60
26	BB	2841	C	N3-C4-N4	-5.57	114.10	118.00
26	BB	2873	A	N1-C6-N6	5.57	121.94	118.60
1	AA	65	A	N9-C4-C5	-5.57	103.57	105.80
1	AA	444	G	N1-C2-N3	-5.57	120.56	123.90
1	AA	661	G	C6-C5-N7	-5.57	127.06	130.40
1	AA	1206	G	C4-C5-N7	-5.57	108.57	110.80
2	AB	6	C	N1-C1'-C2'	-5.57	105.87	112.00
26	BB	99	U	C6-N1-C1'	-5.57	113.40	121.20
26	BB	374	A	C1'-O4'-C4'	-5.57	105.44	109.90
26	BB	610	C	C2-N1-C1'	-5.57	112.67	118.80
26	BB	1194	A	C4-C5-N7	-5.57	107.91	110.70
26	BB	1529	G	C8-N9-C1'	5.57	134.24	127.00
26	BB	1877	A	O3'-P-O5'	-5.57	93.41	104.00
26	BB	2077	A	O4'-C1'-N9	5.57	112.66	108.20
39	BO	35	ALA	CB-CA-C	-5.57	101.74	110.10
1	AA	303	A	C8-N9-C4	-5.57	103.57	105.80
1	AA	354	G	N7-C8-N9	5.57	115.89	113.10
1	AA	836	G	C4-C5-C6	5.57	122.14	118.80
1	AA	860	A	C6-C5-N7	5.57	136.20	132.30
1	AA	1185	G	N1-C2-N3	-5.57	120.56	123.90
1	AA	1237	C	N1-C2-N3	-5.57	115.30	119.20
1	AA	1288	A	N3-C4-C5	5.57	130.70	126.80
26	BB	34	U	C5-C6-N1	5.57	125.48	122.70
26	BB	684	G	N1-C2-N3	-5.57	120.56	123.90
26	BB	694	U	N3-C4-O4	5.57	123.30	119.40
26	BB	1238	G	C5-C6-N1	5.57	114.28	111.50
26	BB	1971	U	C5'-C4'-O4'	5.57	115.78	109.10
26	BB	2273	A	O4'-C1'-N9	5.57	112.66	108.20
26	BB	2351	G	C3'-C2'-C1'	5.57	105.96	101.50
26	BB	2867	G	N1-C6-O6	-5.57	116.56	119.90
37	BM	60	ALA	N-CA-CB	-5.57	102.30	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1091	G	C5-C6-N1	5.57	114.28	111.50
26	BB	1239	G	N1-C2-N3	-5.57	120.56	123.90
26	BB	1384	A	C3'-C2'-C1'	-5.57	97.05	101.50
26	BB	1478	G	N3-C2-N2	-5.57	116.00	119.90
26	BB	1515	A	C5-N7-C8	-5.57	101.12	103.90
26	BB	1518	C	C2-N3-C4	5.57	122.69	119.90
26	BB	1759	A	N3-C4-C5	-5.57	122.90	126.80
1	AA	130	A	O4'-C4'-C3'	5.57	110.55	106.10
1	AA	164	G	C4-C5-C6	5.57	122.14	118.80
1	AA	462	G	N3-C4-C5	-5.57	125.82	128.60
1	AA	543	U	C3'-C2'-C1'	-5.57	97.05	101.50
1	AA	623	C	C5'-C4'-O4'	5.57	115.78	109.10
1	AA	673	A	N1-C2-N3	-5.57	126.52	129.30
1	AA	738	C	C5'-C4'-C3'	-5.57	107.09	116.00
1	AA	971	G	C6-N1-C2	-5.57	121.76	125.10
1	AA	1007	U	C5'-C4'-O4'	5.57	115.78	109.10
1	AA	1137	C	C2-N1-C1'	-5.57	112.67	118.80
1	AA	1319	A	C1'-O4'-C4'	-5.57	105.45	109.90
1	AA	1486	G	N9-C1'-C2'	-5.57	105.88	112.00
4	AD	16	C	C5-C4-N4	5.57	124.10	120.20
26	BB	116	C	C2-N3-C4	5.57	122.68	119.90
26	BB	323	C	C1'-O4'-C4'	5.57	114.35	109.90
26	BB	508	A	C4'-C3'-C2'	-5.57	97.03	102.60
26	BB	775	G	C1'-O4'-C4'	-5.57	105.45	109.90
26	BB	865	C	C2-N1-C1'	5.57	124.92	118.80
26	BB	1540	G	N3-C2-N2	-5.57	116.00	119.90
26	BB	2593	U	C5-C6-N1	-5.57	119.92	122.70
26	BB	2714	G	OP1-P-O3'	5.57	117.45	105.20
26	BB	2862	G	C5'-C4'-C3'	5.57	124.91	116.00
56	B5	8	SER	O-C-N	5.57	131.61	122.70
1	AA	357	G	C4-C5-C6	5.57	122.14	118.80
1	AA	974	A	N3-C4-C5	5.57	130.69	126.80
1	AA	1371	G	C4-C5-N7	5.57	113.03	110.80
2	AB	6	C	C4-C5-C6	-5.57	114.62	117.40
25	BA	61	G	N1-C6-O6	-5.57	116.56	119.90
26	BB	5	A	C8-N9-C4	-5.57	103.57	105.80
26	BB	780	G	C6-C5-N7	-5.57	127.06	130.40
26	BB	1025	G	C6-C5-N7	5.57	133.74	130.40
26	BB	1419	A	C4'-C3'-C2'	-5.57	97.03	102.60
26	BB	1426	G	C4-C5-N7	5.57	113.03	110.80
26	BB	1591	A	C2-N3-C4	5.57	113.38	110.60
26	BB	1868	C	O4'-C1'-N1	5.57	112.65	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2043	C	P-O3'-C3'	5.57	126.38	119.70
26	BB	2140	G	N3-C2-N2	-5.57	116.00	119.90
28	BD	76	VAL	CA-CB-CG2	5.57	119.25	110.90
45	BU	29	VAL	CA-CB-CG1	5.57	119.25	110.90
1	AA	45	G	N3-C4-C5	-5.56	125.82	128.60
1	AA	85	U	C5-C4-O4	-5.56	122.56	125.90
1	AA	153	C	O5'-P-OP2	-5.56	100.69	105.70
1	AA	275	G	C2'-C3'-O3'	5.56	122.60	113.70
26	BB	1132	U	P-O3'-C3'	5.56	126.38	119.70
26	BB	1455	G	C5-C6-N1	5.56	114.28	111.50
1	AA	241	G	N7-C8-N9	-5.56	110.32	113.10
1	AA	361	G	C5'-C4'-O4'	5.56	115.77	109.10
1	AA	636	U	N1-C2-N3	5.56	118.24	114.90
1	AA	822	U	C2-N3-C4	-5.56	123.66	127.00
1	AA	867	G	N9-C4-C5	5.56	107.62	105.40
1	AA	992	U	C5'-C4'-O4'	5.56	115.77	109.10
1	AA	1032	G	N1-C2-N2	5.56	121.21	116.20
1	AA	1193	G	C5-N7-C8	5.56	107.08	104.30
1	AA	1293	C	C5-C4-N4	5.56	124.09	120.20
1	AA	1308	U	N1-C2-O2	-5.56	118.91	122.80
25	BA	105	G	O4'-C4'-C3'	5.56	110.55	106.10
26	BB	7	G	C1'-O4'-C4'	-5.56	105.45	109.90
26	BB	79	C	C5'-C4'-O4'	5.56	115.78	109.10
26	BB	272	A	C5'-C4'-O4'	5.56	115.77	109.10
26	BB	302	C	N3-C4-N4	5.56	121.89	118.00
26	BB	2061	G	C5-C6-N1	5.56	114.28	111.50
26	BB	2349	G	N1-C6-O6	-5.56	116.56	119.90
26	BB	2510	C	C6-N1-C2	-5.56	118.08	120.30
26	BB	2608	G	N1-C2-N3	5.56	127.24	123.90
34	BJ	52	ARG	CD-NE-CZ	5.56	131.39	123.60
36	BL	44	TYR	CB-CG-CD2	5.56	124.34	121.00
1	AA	74	A	N9-C1'-C2'	-5.56	105.88	112.00
1	AA	423	G	N9-C1'-C2'	-5.56	105.88	112.00
1	AA	860	A	N1-C2-N3	5.56	132.08	129.30
1	AA	991	U	N3-C2-O2	-5.56	118.31	122.20
1	AA	1133	G	N1-C2-N2	5.56	121.20	116.20
1	AA	1348	U	P-O3'-C3'	5.56	126.37	119.70
13	AM	89	ARG	NE-CZ-NH2	-5.56	117.52	120.30
26	BB	131	A	N1-C2-N3	-5.56	126.52	129.30
26	BB	305	C	C5-C6-N1	5.56	123.78	121.00
26	BB	367	G	C8-N9-C4	-5.56	104.18	106.40
26	BB	569	U	C5-C4-O4	-5.56	122.56	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1032	A	N7-C8-N9	-5.56	111.02	113.80
26	BB	1573	G	N1-C2-N2	5.56	121.20	116.20
26	BB	1693	U	C5-C6-N1	-5.56	119.92	122.70
26	BB	1755	A	C2-N3-C4	5.56	113.38	110.60
26	BB	2013	A	N3-C4-C5	5.56	130.69	126.80
1	AA	158	G	C5-C6-O6	-5.56	125.26	128.60
1	AA	367	U	N3-C4-C5	-5.56	111.26	114.60
1	AA	1046	A	C6-C5-N7	5.56	136.19	132.30
1	AA	1165	U	C3'-C2'-C1'	5.56	105.95	101.50
26	BB	363	G	N1-C6-O6	5.56	123.24	119.90
26	BB	1404	C	C5-C6-N1	5.56	123.78	121.00
26	BB	2423	U	N1-C2-N3	5.56	118.24	114.90
1	AA	40	C	N3-C4-C5	-5.56	119.68	121.90
1	AA	66	A	C5'-C4'-C3'	5.56	124.89	116.00
1	AA	670	G	C2-N3-C4	5.56	114.68	111.90
1	AA	824	G	C4-C5-N7	5.56	113.02	110.80
1	AA	878	A	C5-N7-C8	-5.56	101.12	103.90
1	AA	891	U	C4-C5-C6	5.56	123.03	119.70
1	AA	949	A	C4-C5-C6	-5.56	114.22	117.00
1	AA	1075	U	O4'-C1'-C2'	-5.56	100.24	105.80
1	AA	1203	C	C6-N1-C2	-5.56	118.08	120.30
1	AA	1301	U	N1-C2-N3	5.56	118.23	114.90
10	AJ	90	VAL	CA-CB-CG1	5.56	119.24	110.90
25	BA	97	C	N1-C2-N3	-5.56	115.31	119.20
26	BB	124	G	C2-N3-C4	5.56	114.68	111.90
26	BB	271	G	C1'-O4'-C4'	-5.56	105.45	109.90
26	BB	881	G	P-O3'-C3'	5.56	126.37	119.70
26	BB	1443	U	N1-C2-O2	-5.56	118.91	122.80
29	BE	104	VAL	CA-CB-CG2	5.56	119.24	110.90
31	BG	114	ARG	NH1-CZ-NH2	-5.56	113.29	119.40
38	BN	127	VAL	CA-CB-CG1	5.56	119.24	110.90
1	AA	490	C	C5-C6-N1	5.56	123.78	121.00
1	AA	1335	U	C5-C4-O4	5.56	129.23	125.90
26	BB	144	A	C1'-O4'-C4'	5.56	114.34	109.90
26	BB	833	A	O4'-C1'-N9	5.56	112.64	108.20
26	BB	1141	U	N3-C4-O4	-5.56	115.51	119.40
26	BB	1342	A	C5'-C4'-O4'	5.56	115.77	109.10
26	BB	1412	U	C5-C6-N1	-5.56	119.92	122.70
26	BB	1414	C	C3'-C2'-C1'	-5.56	97.06	101.50
26	BB	1751	U	N1-C1'-C2'	-5.56	105.89	112.00
26	BB	2204	G	C8-N9-C4	-5.56	104.18	106.40
44	BT	21	ARG	NE-CZ-NH2	-5.56	117.52	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	148	G	N1-C2-N2	5.55	121.20	116.20
1	AA	1037	C	C2-N3-C4	5.55	122.68	119.90
1	AA	1053	G	C3'-C2'-C1'	-5.55	97.06	101.50
26	BB	285	G	C5-C6-N1	5.55	114.28	111.50
26	BB	658	U	C5-C6-N1	5.55	125.48	122.70
26	BB	970	U	C3'-C2'-C1'	5.55	105.94	101.50
26	BB	988	A	N3-C4-C5	-5.55	122.91	126.80
26	BB	1253	A	N9-C4-C5	5.55	108.02	105.80
26	BB	1331	G	C5-C6-O6	-5.55	125.27	128.60
26	BB	1705	A	N9-C4-C5	5.55	108.02	105.80
26	BB	2098	U	N1-C2-N3	5.55	118.23	114.90
26	BB	2462	C	C6-N1-C2	-5.55	118.08	120.30
26	BB	2828	G	C5-C6-O6	5.55	131.93	128.60
44	BT	40	MET	CA-CB-CG	5.55	122.74	113.30
1	AA	266	G	N3-C4-C5	-5.55	125.82	128.60
1	AA	722	G	N3-C4-N9	5.55	129.33	126.00
1	AA	764	C	C2'-C3'-O3'	5.55	122.58	113.70
26	BB	256	A	N9-C4-C5	5.55	108.02	105.80
26	BB	1312	U	N3-C4-C5	-5.55	111.27	114.60
26	BB	2573	C	C6-N1-C2	5.55	122.52	120.30
26	BB	2630	G	C3'-C2'-C1'	-5.55	97.06	101.50
1	AA	268	U	N3-C4-C5	5.55	117.93	114.60
1	AA	358	U	C5'-C4'-O4'	5.55	115.76	109.10
1	AA	1143	G	C8-N9-C1'	5.55	134.22	127.00
1	AA	1258	G	O4'-C1'-N9	5.55	112.64	108.20
1	AA	1374	A	C5-N7-C8	5.55	106.67	103.90
1	AA	1438	G	N3-C4-C5	-5.55	125.83	128.60
4	AD	74	A	N1-C2-N3	-5.55	126.52	129.30
26	BB	702	U	N1-C2-O2	-5.55	118.91	122.80
26	BB	707	G	C5'-C4'-C3'	-5.55	107.12	116.00
26	BB	1031	G	C4-C5-C6	5.55	122.13	118.80
26	BB	2186	G	N1-C2-N3	-5.55	120.57	123.90
26	BB	2468	A	C5-C6-N1	5.55	120.48	117.70
26	BB	2515	C	C4-C5-C6	-5.55	114.62	117.40
1	AA	99	C	O4'-C1'-N1	-5.55	103.76	108.20
1	AA	101	A	C4-C5-N7	-5.55	107.93	110.70
1	AA	271	C	P-O3'-C3'	5.55	126.36	119.70
1	AA	364	A	N3-C4-N9	-5.55	122.96	127.40
1	AA	445	G	N1-C6-O6	-5.55	116.57	119.90
1	AA	490	C	C4-C5-C6	-5.55	114.62	117.40
1	AA	925	G	N7-C8-N9	-5.55	110.33	113.10
1	AA	1188	A	N3-C4-C5	-5.55	122.92	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1417	G	C5-N7-C8	-5.55	101.53	104.30
1	AA	1423	G	N7-C8-N9	-5.55	110.33	113.10
1	AA	1460	C	C2-N3-C4	5.55	122.67	119.90
9	AI	16	GLU	OE1-CD-OE2	5.55	129.96	123.30
10	AJ	125	ASP	CB-CG-OD2	-5.55	113.31	118.30
25	BA	46	A	C3'-C2'-C1'	-5.55	97.06	101.50
26	BB	32	C	C5-C6-N1	-5.55	118.22	121.00
26	BB	319	G	C1'-O4'-C4'	5.55	114.34	109.90
26	BB	611	C	C4'-C3'-C2'	-5.55	97.05	102.60
26	BB	744	U	C5'-C4'-O4'	5.55	115.76	109.10
26	BB	856	G	C4'-C3'-C2'	-5.55	97.05	102.60
26	BB	1265	A	C1'-O4'-C4'	5.55	114.34	109.90
26	BB	1676	A	N3-C4-N9	5.55	131.84	127.40
26	BB	2403	C	C5'-C4'-O4'	5.55	115.76	109.10
26	BB	2632	A	C5'-C4'-C3'	-5.55	107.12	116.00
26	BB	2901	C	C4-C5-C6	-5.55	114.62	117.40
27	BC	212	VAL	CA-CB-CG2	5.55	119.22	110.90
32	BH	95	ALA	CB-CA-C	5.55	118.42	110.10
36	BL	14	ASP	CB-CG-OD2	-5.55	113.31	118.30
50	BZ	4	CYS	CA-CB-SG	-5.55	104.01	114.00
1	AA	473	U	C5-C4-O4	5.55	129.23	125.90
1	AA	716	A	C5-N7-C8	-5.55	101.13	103.90
1	AA	814	A	C3'-C2'-C1'	5.55	105.94	101.50
26	BB	1400	U	C6-N1-C2	-5.55	117.67	121.00
26	BB	2822	G	N1-C2-N3	5.55	127.23	123.90
1	AA	92	U	N1-C2-N3	5.55	118.23	114.90
1	AA	535	A	N3-C4-N9	5.55	131.84	127.40
1	AA	1055	A	C2-N3-C4	5.55	113.37	110.60
1	AA	1498	UR3	OP1-P-O3'	5.55	117.40	105.20
1	AA	1510	C	C5-C4-N4	5.55	124.08	120.20
2	AB	59	G	C5-C6-O6	5.55	131.93	128.60
21	AU	6	ARG	NE-CZ-NH2	5.55	123.07	120.30
25	BA	2	G	C8-N9-C4	-5.55	104.18	106.40
25	BA	73	A	N1-C2-N3	-5.55	126.53	129.30
26	BB	215	G	N3-C4-N9	5.55	129.33	126.00
26	BB	904	G	C5-N7-C8	-5.55	101.53	104.30
26	BB	1106	G	C2-N3-C4	5.55	114.67	111.90
26	BB	1111	A	O4'-C1'-C2'	5.55	112.59	107.60
26	BB	1718	G	N7-C8-N9	5.55	115.87	113.10
26	BB	1785	A	C5-C6-N6	-5.55	119.26	123.70
26	BB	2273	A	N7-C8-N9	5.55	116.57	113.80
26	BB	2513	A	O4'-C1'-C2'	-5.55	100.25	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1	A	C1'-O4'-C4'	-5.54	105.46	109.90
1	AA	368	U	C5-C4-O4	-5.54	122.57	125.90
4	AD	3	C	C1'-O4'-C4'	5.54	114.34	109.90
26	BB	45	G	C4-N9-C1'	-5.54	119.29	126.50
26	BB	1403	A	N9-C4-C5	-5.54	103.58	105.80
26	BB	1968	G	N1-C2-N2	-5.54	111.21	116.20
30	BF	39	ALA	CB-CA-C	5.54	118.42	110.10
1	AA	115	G	N3-C4-C5	-5.54	125.83	128.60
1	AA	591	U	O4'-C1'-N1	5.54	112.64	108.20
1	AA	730	G	N3-C2-N2	-5.54	116.02	119.90
1	AA	790	A	O4'-C1'-N9	5.54	112.63	108.20
1	AA	826	C	N1-C2-O2	5.54	122.23	118.90
1	AA	1028	C	N3-C4-N4	5.54	121.88	118.00
2	AB	34	C	N3-C4-N4	5.54	121.88	118.00
2	AB	69	C	C1'-O4'-C4'	5.54	114.33	109.90
4	AD	12	G	C6-N1-C2	5.54	128.43	125.10
26	BB	360	U	C3'-C2'-C1'	5.54	105.94	101.50
26	BB	790	U	N3-C4-O4	5.54	123.28	119.40
26	BB	917	A	C5-N7-C8	5.54	106.67	103.90
26	BB	1401	G	C1'-O4'-C4'	5.54	114.33	109.90
26	BB	1860	G	C5-C6-N1	5.54	114.27	111.50
26	BB	2027	G	C3'-C2'-C1'	5.54	105.94	101.50
1	AA	94	G	C5-C6-O6	-5.54	125.28	128.60
1	AA	142	G	O4'-C1'-N9	5.54	112.63	108.20
1	AA	185	U	C1'-O4'-C4'	5.54	114.33	109.90
1	AA	297	G	C4-C5-N7	-5.54	108.58	110.80
1	AA	700	G	C5-N7-C8	-5.54	101.53	104.30
1	AA	742	G	P-O3'-C3'	5.54	126.35	119.70
1	AA	1077	G	C5-C6-N1	-5.54	108.73	111.50
2	AB	2	G	C4-C5-N7	5.54	113.02	110.80
4	AD	47	A	C3'-C2'-C1'	5.54	105.93	101.50
6	AF	200	TRP	CD2-CE2-CZ2	5.54	128.95	122.30
26	BB	306	U	O4'-C1'-N1	5.54	112.63	108.20
26	BB	349	U	C4'-C3'-C2'	-5.54	97.06	102.60
26	BB	854	C	C4'-C3'-C2'	-5.54	97.06	102.60
26	BB	1105	U	C5-C6-N1	-5.54	119.93	122.70
26	BB	1208	C	C6-N1-C2	-5.54	118.08	120.30
26	BB	1423	G	C8-N9-C4	-5.54	104.18	106.40
26	BB	1590	A	C1'-O4'-C4'	-5.54	105.47	109.90
26	BB	1714	U	C2-N3-C4	-5.54	123.67	127.00
26	BB	1867	G	C4'-C3'-C2'	-5.54	97.06	102.60
26	BB	2129	C	C2-N3-C4	5.54	122.67	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2512	C	P-O3'-C3'	5.54	126.35	119.70
54	B3	30	ASP	CB-CG-OD2	5.54	123.29	118.30
1	AA	400	C	O3'-P-O5'	-5.54	93.47	104.00
1	AA	1281	C	N1-C2-N3	-5.54	115.32	119.20
1	AA	1481	U	P-O5'-C5'	5.54	129.76	120.90
3	AC	16	A	C6-N1-C2	-5.54	115.28	118.60
3	AC	31	U	C3'-C2'-C1'	5.54	105.93	101.50
26	BB	909	A	C4'-C3'-C2'	-5.54	97.06	102.60
26	BB	1512	C	C6-N1-C2	-5.54	118.08	120.30
26	BB	1572	A	O4'-C1'-N9	-5.54	103.77	108.20
26	BB	2884	U	C5'-C4'-C3'	-5.54	107.14	116.00
26	BB	2897	U	N3-C2-O2	-5.54	118.32	122.20
1	AA	328	C	N3-C4-N4	5.54	121.88	118.00
1	AA	463	U	N3-C4-O4	5.54	123.28	119.40
1	AA	556	C	C4'-C3'-C2'	-5.54	97.06	102.60
1	AA	583	A	N1-C6-N6	-5.54	115.28	118.60
1	AA	856	C	C2-N3-C4	-5.54	117.13	119.90
1	AA	1027	C	C6-N1-C1'	5.54	127.45	120.80
1	AA	1338	G	C5'-C4'-O4'	5.54	115.75	109.10
1	AA	1348	U	N1-C2-N3	-5.54	111.58	114.90
10	AJ	137	ARG	NE-CZ-NH2	5.54	123.07	120.30
26	BB	1007	C	O4'-C4'-C3'	5.54	110.53	106.10
26	BB	1169	A	P-O3'-C3'	5.54	126.35	119.70
26	BB	1171	G	C5-C6-O6	-5.54	125.28	128.60
26	BB	1359	A	C5-C6-N1	5.54	120.47	117.70
26	BB	1664	A	C3'-C2'-C1'	-5.54	97.07	101.50
26	BB	1790	C	C5-C4-N4	5.54	124.08	120.20
26	BB	1927	A	N3-C4-C5	-5.54	122.92	126.80
26	BB	2080	A	O4'-C1'-N9	5.54	112.63	108.20
26	BB	2729	G	N1-C2-N3	-5.54	120.58	123.90
30	BF	102	ARG	NE-CZ-NH1	-5.54	117.53	120.30
37	BM	76	VAL	CA-CB-CG1	5.54	119.21	110.90
1	AA	669	G	P-O3'-C3'	5.54	126.34	119.70
1	AA	1114	C	C2-N3-C4	5.54	122.67	119.90
1	AA	1372	U	C5-C6-N1	5.54	125.47	122.70
3	AC	48	C	P-O3'-C3'	5.54	126.34	119.70
12	AL	110	VAL	CA-CB-CG1	5.54	119.20	110.90
26	BB	325	G	C5-N7-C8	-5.54	101.53	104.30
26	BB	332	A	C8-N9-C4	-5.54	103.58	105.80
26	BB	433	C	C1'-O4'-C4'	5.54	114.33	109.90
26	BB	669	G	O3'-P-O5'	5.54	114.52	104.00
26	BB	1234	U	O3'-P-O5'	-5.54	93.48	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2051	A	C4-C5-N7	5.54	113.47	110.70
26	BB	2618	G	C2-N3-C4	5.54	114.67	111.90
26	BB	2692	G	C4'-C3'-C2'	-5.54	97.06	102.60
26	BB	2833	U	N3-C4-O4	-5.54	115.52	119.40
42	BR	16	VAL	CA-CB-CG1	5.54	119.21	110.90
1	AA	421	U	N1-C2-O2	5.54	126.67	122.80
1	AA	989	U	O4'-C1'-C2'	5.54	112.58	107.60
1	AA	1080	A	N3-C4-C5	-5.54	122.93	126.80
1	AA	1191	A	C5-C6-N6	-5.54	119.27	123.70
1	AA	1264	U	N3-C2-O2	-5.54	118.33	122.20
26	BB	714	U	O4'-C1'-N1	5.54	112.63	108.20
26	BB	828	U	N1-C2-N3	5.54	118.22	114.90
26	BB	1002	G	C3'-C2'-C1'	-5.54	97.07	101.50
26	BB	1065	U	C4-C5-C6	5.54	123.02	119.70
26	BB	1132	U	C4'-C3'-C2'	-5.54	97.06	102.60
26	BB	1180	U	N3-C4-C5	-5.54	111.28	114.60
26	BB	1736	U	N3-C4-C5	-5.54	111.28	114.60
26	BB	1993	U	C6-N1-C2	-5.54	117.68	121.00
26	BB	2115	G	C6-N1-C2	-5.54	121.78	125.10
1	AA	80	A	N9-C4-C5	5.53	108.01	105.80
1	AA	116	A	C5-C6-N1	5.53	120.47	117.70
1	AA	375	U	N3-C2-O2	-5.53	118.33	122.20
1	AA	565	U	C5'-C4'-O4'	-5.53	102.46	109.10
1	AA	643	C	C5-C4-N4	-5.53	116.33	120.20
1	AA	802	A	C4-C5-N7	5.53	113.47	110.70
4	AD	7	G	N9-C4-C5	5.53	107.61	105.40
4	AD	67	C	N1-C2-N3	-5.53	115.33	119.20
26	BB	2	G	C4'-C3'-C2'	-5.53	97.07	102.60
26	BB	397	U	N1-C2-O2	-5.53	118.93	122.80
26	BB	439	A	O5'-C5'-C4'	-5.53	101.19	111.70
26	BB	614	A	O4'-C1'-C2'	-5.53	100.27	105.80
26	BB	1122	G	C5'-C4'-O4'	5.53	115.74	109.10
26	BB	1182	G	C1'-O4'-C4'	-5.53	105.47	109.90
26	BB	1960	A	C6-N1-C2	5.53	121.92	118.60
26	BB	2472	G	C2-N3-C4	5.53	114.67	111.90
26	BB	2502	G	C5-N7-C8	-5.53	101.53	104.30
26	BB	2704	C	N3-C2-O2	-5.53	118.03	121.90
1	AA	1339	A	C5-C6-N1	5.53	120.47	117.70
17	AQ	76	PHE	CB-CG-CD2	-5.53	116.93	120.80
26	BB	544	C	C2-N3-C4	5.53	122.67	119.90
26	BB	579	G	C6-N1-C2	-5.53	121.78	125.10
26	BB	730	A	N7-C8-N9	5.53	116.57	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2512	C	O5'-P-OP2	5.53	117.34	110.70
26	BB	2527	C	O4'-C1'-N1	5.53	112.62	108.20
26	BB	2702	G	C6-N1-C2	-5.53	121.78	125.10
26	BB	2863	C	C6-N1-C2	-5.53	118.09	120.30
1	AA	363	A	C5'-C4'-O4'	5.53	115.74	109.10
1	AA	456	A	N3-C4-N9	-5.53	122.98	127.40
1	AA	1002	G	C2-N3-C4	5.53	114.67	111.90
1	AA	1022	A	C5-C6-N6	5.53	128.12	123.70
1	AA	1043	G	P-O5'-C5'	5.53	129.75	120.90
1	AA	1104	G	C3'-C2'-C1'	5.53	105.92	101.50
1	AA	1169	A	N7-C8-N9	-5.53	111.03	113.80
1	AA	1257	A	C4'-C3'-C2'	5.53	108.13	102.60
1	AA	1369	C	O4'-C4'-C3'	5.53	110.52	106.10
1	AA	1392	G	C5-C6-N1	-5.53	108.73	111.50
24	AX	65	ARG	NE-CZ-NH1	5.53	123.07	120.30
26	BB	4	U	C6-N1-C1'	5.53	128.94	121.20
26	BB	241	A	C2-N3-C4	5.53	113.36	110.60
26	BB	383	C	C5'-C4'-C3'	-5.53	107.15	116.00
26	BB	407	G	C4'-C3'-C2'	-5.53	97.07	102.60
26	BB	742	A	O4'-C4'-C3'	5.53	110.53	106.10
26	BB	1042	G	N7-C8-N9	-5.53	110.33	113.10
26	BB	1760	C	O4'-C4'-C3'	5.53	110.53	106.10
26	BB	1815	A	P-O3'-C3'	5.53	126.34	119.70
26	BB	2564	A	O4'-C1'-N9	5.53	112.62	108.20
26	BB	2669	G	N3-C4-C5	-5.53	125.83	128.60
42	BR	30	TRP	CE2-CD2-CG	5.53	111.72	107.30
1	AA	578	C	OP1-P-O3'	5.53	117.36	105.20
1	AA	1310	G	C4'-C3'-C2'	-5.53	97.07	102.60
1	AA	1511	G	N1-C6-O6	5.53	123.22	119.90
7	AG	101	VAL	CA-CB-CG1	5.53	119.19	110.90
26	BB	234	U	P-O5'-C5'	5.53	129.75	120.90
26	BB	2079	U	N1-C1'-C2'	-5.53	105.92	112.00
26	BB	2133	G	C5'-C4'-O4'	5.53	115.73	109.10
26	BB	2162	G	C4'-C3'-C2'	-5.53	97.07	102.60
1	AA	453	G	N1-C6-O6	5.53	123.22	119.90
1	AA	525	C	O4'-C1'-C2'	-5.53	100.27	105.80
1	AA	709	U	O4'-C1'-N1	5.53	112.62	108.20
1	AA	927	G	C5'-C4'-O4'	5.53	115.73	109.10
1	AA	1069	C	N3-C4-N4	5.53	121.87	118.00
1	AA	1350	A	N1-C2-N3	5.53	132.06	129.30
25	BA	46	A	N3-C4-N9	-5.53	122.98	127.40
26	BB	333	G	N1-C2-N3	5.53	127.22	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	855	G	C3'-C2'-C1'	-5.53	97.08	101.50
26	BB	1376	C	O4'-C1'-N1	5.53	112.62	108.20
26	BB	1476	U	P-O3'-C3'	5.53	126.33	119.70
26	BB	1545	A	N9-C1'-C2'	-5.53	105.92	112.00
26	BB	2560	A	C1'-O4'-C4'	-5.53	105.48	109.90
26	BB	2642	G	N1-C2-N3	5.53	127.22	123.90
26	BB	2669	G	C5-C6-O6	5.53	131.92	128.60
1	AA	35	G	O4'-C1'-N9	5.53	112.62	108.20
1	AA	84	U	O4'-C4'-C3'	5.53	110.52	106.10
1	AA	147	G	P-O3'-C3'	5.53	126.33	119.70
1	AA	447	G	N3-C4-N9	5.53	129.31	126.00
2	AB	49	G	N3-C4-N9	5.53	129.31	126.00
4	AD	1	C	C6-N1-C1'	5.53	127.43	120.80
4	AD	53	G	O5'-P-OP1	-5.53	100.73	105.70
25	BA	49	C	C2-N3-C4	5.53	122.66	119.90
25	BA	106	G	O4'-C4'-C3'	-5.53	98.47	104.00
26	BB	205	G	P-O3'-C3'	5.53	126.33	119.70
26	BB	373	U	N1-C1'-C2'	-5.53	105.92	112.00
26	BB	592	A	C1'-O4'-C4'	5.53	114.32	109.90
26	BB	845	A	C4-C5-N7	5.53	113.46	110.70
26	BB	866	A	C2-N3-C4	-5.53	107.84	110.60
26	BB	1240	U	C2-N3-C4	5.53	130.31	127.00
26	BB	1637	A	N7-C8-N9	5.53	116.56	113.80
26	BB	1758	U	O4'-C1'-C2'	-5.53	100.28	105.80
26	BB	2157	G	O4'-C1'-C2'	-5.53	100.28	105.80
26	BB	2418	A	N9-C4-C5	5.53	108.01	105.80
31	BG	139	GLU	OE1-CD-OE2	5.53	129.93	123.30
1	AA	255	G	C5-C6-N1	-5.52	108.74	111.50
1	AA	573	A	C3'-C2'-C1'	-5.52	97.08	101.50
1	AA	1351	U	C5-C6-N1	-5.52	119.94	122.70
7	AG	103	ARG	NE-CZ-NH1	-5.52	117.54	120.30
13	AM	29	ALA	C-N-CA	5.52	135.51	121.70
26	BB	209	C	C6-N1-C2	5.52	122.51	120.30
26	BB	578	G	C4-C5-N7	-5.52	108.59	110.80
26	BB	1041	G	C5-C6-N1	5.52	114.26	111.50
26	BB	1336	A	N9-C4-C5	5.52	108.01	105.80
26	BB	1591	A	O4'-C1'-N9	5.52	112.62	108.20
26	BB	2056	G	C6-N1-C2	-5.52	121.79	125.10
26	BB	2281	A	N7-C8-N9	5.52	116.56	113.80
1	AA	100	G	C5-C6-N1	5.52	114.26	111.50
1	AA	687	A	C2-N3-C4	-5.52	107.84	110.60
1	AA	763	G	C6-N1-C2	-5.52	121.79	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	851	G	C8-N9-C1'	5.52	134.18	127.00
1	AA	1440	U	N3-C4-O4	5.52	123.27	119.40
2	AB	39	A	C4-C5-N7	5.52	113.46	110.70
19	AS	45	GLU	CB-CA-C	5.52	121.45	110.40
25	BA	58	A	P-O5'-C5'	5.52	129.74	120.90
25	BA	86	G	C2-N3-C4	5.52	114.66	111.90
26	BB	223	A	C6-N1-C2	-5.52	115.29	118.60
26	BB	233	A	C2-N3-C4	5.52	113.36	110.60
26	BB	285	G	O4'-C1'-N9	5.52	112.62	108.20
26	BB	312	G	C2-N3-C4	5.52	114.66	111.90
26	BB	600	G	C2-N3-C4	-5.52	109.14	111.90
26	BB	758	C	C3'-C2'-C1'	-5.52	97.08	101.50
26	BB	1309	G	C5'-C4'-C3'	5.52	124.83	116.00
26	BB	1934	C	N3-C4-N4	5.52	121.87	118.00
26	BB	2002	G	C2-N3-C4	5.52	114.66	111.90
26	BB	2099	U	C5-C6-N1	-5.52	119.94	122.70
26	BB	2198	A	N9-C4-C5	5.52	108.01	105.80
26	BB	2548	U	O4'-C1'-N1	5.52	112.62	108.20
26	BB	2724	U	C2'-C3'-O3'	5.52	122.54	113.70
1	AA	181	A	C8-N9-C4	-5.52	103.59	105.80
1	AA	359	G	N9-C1'-C2'	-5.52	105.93	112.00
1	AA	1370	G	C6-N1-C2	-5.52	121.79	125.10
26	BB	49	A	O4'-C1'-N9	5.52	112.62	108.20
26	BB	325	G	C6-N1-C2	-5.52	121.79	125.10
26	BB	363	G	C4'-C3'-C2'	-5.52	97.08	102.60
26	BB	1296	G	O4'-C1'-C2'	5.52	112.57	107.60
26	BB	2217	G	N3-C4-C5	-5.52	125.84	128.60
1	AA	388	G	N1-C6-O6	5.52	123.21	119.90
1	AA	1015	G	N7-C8-N9	5.52	115.86	113.10
4	AD	1	C	O4'-C4'-C3'	-5.52	98.48	104.00
14	AN	6	ARG	N-CA-CB	5.52	120.53	110.60
26	BB	91	A	N9-C4-C5	-5.52	103.59	105.80
26	BB	98	G	C5-C6-O6	-5.52	125.29	128.60
26	BB	265	A	C5'-C4'-C3'	-5.52	107.17	116.00
26	BB	283	G	C1'-O4'-C4'	-5.52	105.48	109.90
26	BB	633	A	O4'-C1'-N9	5.52	112.62	108.20
26	BB	655	A	C5-C6-N1	5.52	120.46	117.70
26	BB	1674	G	N9-C4-C5	-5.52	103.19	105.40
26	BB	1844	C	O4'-C1'-N1	5.52	112.61	108.20
26	BB	1986	C	C5'-C4'-O4'	5.52	115.72	109.10
26	BB	2170	A	N1-C2-N3	5.52	132.06	129.30
1	AA	436	C	N3-C4-C5	-5.52	119.69	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1514	G	O4'-C1'-N9	5.52	112.61	108.20
1	AA	1525	G	C5-C6-N1	5.52	114.26	111.50
4	AD	38	A	C4-C5-N7	5.52	113.46	110.70
26	BB	508	A	C6-C5-N7	5.52	136.16	132.30
26	BB	771	G	C4-C5-C6	5.52	122.11	118.80
26	BB	1470	A	C2-N3-C4	5.52	113.36	110.60
26	BB	1515	A	C5'-C4'-O4'	5.52	115.72	109.10
26	BB	1634	A	C2-N3-C4	5.52	113.36	110.60
26	BB	1741	C	N1-C2-O2	5.52	122.21	118.90
26	BB	2278	A	C8-N9-C4	5.52	108.01	105.80
26	BB	2408	U	C2-N3-C4	-5.52	123.69	127.00
26	BB	2754	U	C5-C4-O4	5.52	129.21	125.90
32	BH	89	VAL	C-N-CA	5.52	133.89	122.30
26	BB	1309	G	C4-N9-C1'	-5.52	119.33	126.50
26	BB	1642	G	C5-N7-C8	5.52	107.06	104.30
26	BB	2174	C	O5'-P-OP2	-5.52	100.74	105.70
1	AA	301	G	N7-C8-N9	5.51	115.86	113.10
1	AA	553	A	C1'-O4'-C4'	5.51	114.31	109.90
1	AA	573	A	N3-C4-C5	5.51	130.66	126.80
1	AA	909	A	P-O3'-C3'	5.51	126.32	119.70
1	AA	1513	A	C5'-C4'-O4'	5.51	115.72	109.10
1	AA	1514	G	N1-C6-O6	-5.51	116.59	119.90
2	AB	24	G	N3-C2-N2	-5.51	116.04	119.90
2	AB	66	C	C5-C6-N1	5.51	123.76	121.00
26	BB	64	A	N1-C6-N6	-5.51	115.29	118.60
26	BB	211	C	C6-N1-C2	-5.51	118.09	120.30
26	BB	639	U	N1-C2-N3	5.51	118.21	114.90
26	BB	676	A	C5-N7-C8	-5.51	101.14	103.90
26	BB	740	C	C2-N3-C4	-5.51	117.14	119.90
26	BB	1013	C	N3-C2-O2	-5.51	118.04	121.90
26	BB	1193	G	N3-C4-C5	-5.51	125.84	128.60
26	BB	1250	G	N3-C4-N9	5.51	129.31	126.00
26	BB	1354	A	N1-C2-N3	5.51	132.06	129.30
26	BB	1395	A	C2'-C3'-O3'	5.51	122.52	113.70
26	BB	1501	G	C5-C6-N1	5.51	114.26	111.50
26	BB	2314	A	N9-C1'-C2'	-5.51	105.94	112.00
26	BB	2320	U	C4'-C3'-C2'	-5.51	97.08	102.60
26	BB	2730	C	C5-C4-N4	5.51	124.06	120.20
26	BB	2826	A	C5'-C4'-O4'	5.51	115.72	109.10
1	AA	352	C	C4-C5-C6	5.51	120.16	117.40
1	AA	997	U	N3-C2-O2	-5.51	118.34	122.20
1	AA	1392	G	C5-N7-C8	-5.51	101.54	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	305	C	N1-C2-O2	-5.51	115.59	118.90
26	BB	409	G	N1-C2-N2	5.51	121.16	116.20
26	BB	1544	A	N9-C1'-C2'	-5.51	105.94	112.00
26	BB	2741	A	C2-N3-C4	5.51	113.36	110.60
1	AA	113	G	N3-C2-N2	-5.51	116.04	119.90
1	AA	158	G	N9-C1'-C2'	-5.51	105.94	112.00
1	AA	307	C	N1-C2-O2	5.51	122.21	118.90
1	AA	1202	U	C2-N3-C4	-5.51	123.69	127.00
1	AA	1441	A	O4'-C1'-N9	5.51	112.61	108.20
1	AA	1515	G	C5-C6-O6	-5.51	125.29	128.60
3	AC	56	G	N9-C4-C5	5.51	107.61	105.40
15	AO	120	ARG	NH1-CZ-NH2	5.51	125.46	119.40
26	BB	287	G	C5-C6-N1	5.51	114.26	111.50
26	BB	1047	G	C5'-C4'-C3'	-5.51	107.18	116.00
26	BB	1062	G	N9-C4-C5	5.51	107.61	105.40
26	BB	1447	C	N1-C2-O2	5.51	122.21	118.90
26	BB	1828	G	C5'-C4'-C3'	-5.51	107.18	116.00
26	BB	2371	G	N1-C6-O6	-5.51	116.59	119.90
26	BB	2723	C	N1-C2-N3	5.51	123.06	119.20
26	BB	2876	G	C1'-O4'-C4'	5.51	114.31	109.90
26	BB	2897	U	C5-C6-N1	5.51	125.46	122.70
1	AA	243	A	C1'-O4'-C4'	-5.51	105.49	109.90
1	AA	337	G	C4-C5-C6	5.51	122.11	118.80
1	AA	382	A	C6-C5-N7	5.51	136.16	132.30
1	AA	1040	U	C6-N1-C2	-5.51	117.69	121.00
1	AA	1218	C	C5'-C4'-O4'	5.51	115.71	109.10
3	AC	22	G	P-O3'-C3'	5.51	126.31	119.70
8	AH	68	ARG	CA-CB-CG	5.51	125.52	113.40
25	BA	30	C	C2-N3-C4	5.51	122.65	119.90
25	BA	57	A	C4'-C3'-C2'	-5.51	97.09	102.60
25	BA	95	U	O4'-C1'-N1	5.51	112.61	108.20
26	BB	918	A	C4-C5-N7	-5.51	107.95	110.70
26	BB	1010	A	C4-C5-C6	5.51	119.75	117.00
26	BB	1185	G	C5'-C4'-C3'	-5.51	107.18	116.00
26	BB	1335	C	C4-C5-C6	-5.51	114.64	117.40
26	BB	1472	C	C2-N3-C4	-5.51	117.14	119.90
26	BB	1935	G	O4'-C1'-N9	5.51	112.61	108.20
26	BB	1944	U	N3-C4-C5	-5.51	111.29	114.60
26	BB	2196	C	N1-C2-O2	5.51	122.21	118.90
26	BB	2700	A	O4'-C1'-N9	5.51	112.61	108.20
26	BB	2759	G	C2-N3-C4	5.51	114.66	111.90
1	AA	102	G	C5-N7-C8	5.51	107.05	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	232	G	C6-N1-C2	-5.51	121.80	125.10
1	AA	1376	U	N3-C2-O2	-5.51	118.34	122.20
1	AA	1512	U	C5'-C4'-O4'	5.51	115.71	109.10
3	AC	24	A	C2-N3-C4	5.51	113.35	110.60
26	BB	293	U	N3-C2-O2	-5.51	118.34	122.20
26	BB	946	C	C4-C5-C6	5.51	120.15	117.40
26	BB	1922	G	O4'-C1'-N9	5.51	112.61	108.20
26	BB	2714	G	C4'-C3'-C2'	5.51	108.11	102.60
43	BS	69	ARG	NE-CZ-NH2	5.51	123.05	120.30
1	AA	227	G	C4'-C3'-C2'	-5.51	97.09	102.60
1	AA	337	G	C6-N1-C2	5.51	128.40	125.10
1	AA	347	G	N1-C6-O6	5.51	123.20	119.90
1	AA	542	G	C5'-C4'-C3'	-5.51	107.19	116.00
1	AA	840	C	N3-C2-O2	-5.51	118.05	121.90
1	AA	1024	G	C2-N3-C4	5.51	114.65	111.90
1	AA	1084	G	N3-C2-N2	5.51	123.75	119.90
25	BA	100	G	N1-C2-N3	-5.51	120.60	123.90
26	BB	69	C	N1-C2-N3	5.51	123.05	119.20
26	BB	500	G	N1-C2-N3	5.51	127.20	123.90
26	BB	1180	U	C6-N1-C2	-5.51	117.70	121.00
26	BB	1452	G	N1-C6-O6	-5.51	116.60	119.90
26	BB	1712	U	C5-C6-N1	5.51	125.45	122.70
26	BB	1789	A	N1-C2-N3	5.51	132.05	129.30
26	BB	2465	C	N1-C2-O2	5.51	122.20	118.90
29	BE	125	TRP	CB-CG-CD1	-5.51	119.84	127.00
48	BX	92	VAL	CA-CB-CG1	5.51	119.16	110.90
1	AA	179	A	N7-C8-N9	5.50	116.55	113.80
1	AA	972	C	N3-C4-C5	-5.50	119.70	121.90
1	AA	1426	G	O4'-C4'-C3'	5.50	110.50	106.10
26	BB	353	C	N3-C4-N4	-5.50	114.15	118.00
26	BB	505	A	C5-N7-C8	-5.50	101.15	103.90
26	BB	821	A	C5-C6-N1	5.50	120.45	117.70
26	BB	996	A	C2-N3-C4	-5.50	107.85	110.60
26	BB	1149	G	C5'-C4'-O4'	5.50	115.71	109.10
26	BB	1245	G	C5'-C4'-O4'	5.50	115.71	109.10
26	BB	1513	U	N3-C2-O2	5.50	126.05	122.20
26	BB	2439	A	C5-N7-C8	5.50	106.65	103.90
1	AA	187	G	C4-C5-N7	5.50	113.00	110.80
1	AA	230	G	C6-C5-N7	-5.50	127.10	130.40
1	AA	240	G	N3-C4-C5	-5.50	125.85	128.60
1	AA	921	U	N1-C1'-C2'	-5.50	105.94	112.00
2	AB	28	C	C6-N1-C2	-5.50	118.10	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	45	U	C6-N1-C1'	5.50	128.91	121.20
4	AD	75	C	O4'-C4'-C3'	5.50	110.50	106.10
26	BB	202	U	N1-C2-N3	5.50	118.20	114.90
26	BB	284	U	C2-N3-C4	-5.50	123.70	127.00
26	BB	529	A	C4'-C3'-C2'	-5.50	97.10	102.60
26	BB	555	G	N7-C8-N9	5.50	115.85	113.10
26	BB	768	G	C5-N7-C8	-5.50	101.55	104.30
26	BB	1445	G	C6-N1-C2	5.50	128.40	125.10
26	BB	2195	U	C5'-C4'-O4'	5.50	115.70	109.10
26	BB	2534	A	C6-N1-C2	-5.50	115.30	118.60
26	BB	2679	A	N9-C4-C5	5.50	108.00	105.80
26	BB	2742	G	C4-C5-C6	5.50	122.10	118.80
32	BH	93	TYR	CD1-CG-CD2	5.50	123.95	117.90
1	AA	834	U	C5'-C4'-O4'	5.50	115.70	109.10
1	AA	924	C	C4-C5-C6	-5.50	114.65	117.40
1	AA	1211	U	C5-C6-N1	-5.50	119.95	122.70
1	AA	1239	A	O3'-P-O5'	5.50	114.45	104.00
1	AA	1428	A	C5-C6-N1	5.50	120.45	117.70
1	AA	1435	G	C3'-C2'-C1'	5.50	105.90	101.50
1	AA	1438	G	N9-C1'-C2'	-5.50	105.95	112.00
2	AB	67	G	N1-C2-N2	5.50	121.15	116.20
11	AK	92	PRO	N-CA-CB	5.50	109.90	103.30
18	AR	79	ARG	NE-CZ-NH1	-5.50	117.55	120.30
26	BB	161	A	C6-C5-N7	-5.50	128.45	132.30
26	BB	796	C	P-O3'-C3'	5.50	126.30	119.70
26	BB	1012	U	C5-C6-N1	-5.50	119.95	122.70
26	BB	1540	G	N3-C4-N9	5.50	129.30	126.00
26	BB	1638	C	N3-C4-N4	-5.50	114.15	118.00
26	BB	1763	G	C2-N3-C4	5.50	114.65	111.90
26	BB	1914	C	O4'-C1'-N1	5.50	112.60	108.20
26	BB	2335	A	O4'-C1'-N9	5.50	112.60	108.20
26	BB	2395	C	C5'-C4'-C3'	-5.50	107.20	116.00
26	BB	2717	C	O4'-C1'-N1	5.50	112.60	108.20
30	BF	35	TYR	CZ-CE2-CD2	-5.50	114.85	119.80
39	BO	16	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	AA	599	C	C5'-C4'-C3'	-5.50	107.20	116.00
1	AA	826	C	N3-C4-C5	5.50	124.10	121.90
1	AA	933	G	N7-C8-N9	5.50	115.85	113.10
1	AA	1196	A	C5-C6-N6	5.50	128.10	123.70
1	AA	1475	G	C5-C6-O6	5.50	131.90	128.60
9	AI	24	ARG	CD-NE-CZ	5.50	131.30	123.60
25	BA	69	G	N1-C6-O6	-5.50	116.60	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	219	A	C5'-C4'-O4'	-5.50	102.50	109.10
26	BB	244	A	C6-C5-N7	5.50	136.15	132.30
26	BB	518	G	C4'-C3'-C2'	-5.50	97.10	102.60
26	BB	1108	U	N1-C1'-C2'	-5.50	105.95	112.00
26	BB	1146	C	C4-C5-C6	5.50	120.15	117.40
26	BB	1641	A	C4-C5-C6	5.50	119.75	117.00
26	BB	2226	C	C5'-C4'-O4'	-5.50	102.50	109.10
26	BB	2336	A	N7-C8-N9	-5.50	111.05	113.80
26	BB	2386	A	C5'-C4'-C3'	-5.50	107.20	116.00
26	BB	2389	G	N7-C8-N9	-5.50	110.35	113.10
26	BB	2446	G	N1-C6-O6	-5.50	116.60	119.90
47	BW	47	PRO	N-CD-CG	5.50	111.45	103.20
1	AA	124	C	P-O3'-C3'	5.50	126.30	119.70
1	AA	542	G	C5'-C4'-O4'	5.50	115.70	109.10
1	AA	1455	G	C5-C6-N1	5.50	114.25	111.50
3	AC	13	A	N7-C8-N9	-5.50	111.05	113.80
3	AC	28	U	O4'-C1'-N1	5.50	112.60	108.20
26	BB	53	A	N1-C2-N3	-5.50	126.55	129.30
26	BB	86	G	C5-C6-N1	5.50	114.25	111.50
26	BB	278	A	O4'-C1'-N9	5.50	112.60	108.20
26	BB	457	A	C5-N7-C8	-5.50	101.15	103.90
26	BB	487	C	C3'-C2'-C1'	-5.50	97.10	101.50
26	BB	603	A	C1'-O4'-C4'	-5.50	105.50	109.90
26	BB	1042	G	C6-C5-N7	5.50	133.70	130.40
26	BB	1113	U	N1-C2-O2	-5.50	118.95	122.80
26	BB	1187	G	C1'-O4'-C4'	-5.50	105.50	109.90
26	BB	1942	C	O4'-C1'-N1	5.50	112.60	108.20
26	BB	2079	U	C2'-C3'-O3'	5.50	122.50	113.70
26	BB	2426	A	N9-C4-C5	5.50	108.00	105.80
30	BF	4	VAL	C-N-CA	5.50	135.45	121.70
25	BA	85	G	C6-N1-C2	-5.50	121.80	125.10
25	BA	94	A	C5-C6-N6	-5.50	119.30	123.70
26	BB	70	G	C2-N3-C4	-5.50	109.15	111.90
26	BB	133	U	N3-C2-O2	-5.50	118.35	122.20
26	BB	527	C	C5'-C4'-O4'	-5.50	102.50	109.10
26	BB	915	C	C2-N3-C4	5.50	122.65	119.90
26	BB	1071	G	C6-N1-C2	-5.50	121.80	125.10
26	BB	1928	A	C4'-C3'-C2'	-5.50	97.10	102.60
26	BB	2230	G	O4'-C1'-N9	5.50	112.60	108.20
26	BB	2531	A	C5-C6-N1	5.50	120.45	117.70
26	BB	2592	G	N3-C4-N9	5.50	129.30	126.00
26	BB	2710	C	O4'-C1'-N1	5.50	112.60	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2740	A	C1'-O4'-C4'	-5.50	105.50	109.90
1	AA	100	G	N1-C2-N3	5.50	127.20	123.90
1	AA	424	G	C4'-C3'-C2'	-5.50	97.11	102.60
1	AA	459	A	O3'-P-O5'	5.50	114.44	104.00
1	AA	727	G	O3'-P-O5'	-5.50	93.56	104.00
1	AA	765	G	N9-C4-C5	5.50	107.60	105.40
1	AA	859	G	N3-C4-N9	-5.50	122.70	126.00
1	AA	1356	G	C6-N1-C2	-5.50	121.80	125.10
25	BA	29	A	N1-C6-N6	-5.50	115.30	118.60
26	BB	1796	U	C4'-C3'-C2'	-5.50	97.11	102.60
26	BB	2287	A	N3-C4-C5	-5.50	122.95	126.80
26	BB	2572	A	C6-C5-N7	5.50	136.15	132.30
26	BB	2666	C	P-O3'-C3'	5.50	126.30	119.70
34	BJ	34	VAL	CG1-CB-CG2	-5.50	102.11	110.90
1	AA	219	U	C5'-C4'-O4'	5.49	115.69	109.10
1	AA	492	C	C4-C5-C6	5.49	120.15	117.40
1	AA	564	C	N1-C1'-C2'	-5.49	105.96	112.00
1	AA	833	G	O4'-C4'-C3'	5.49	110.50	106.10
1	AA	1110	A	C1'-O4'-C4'	5.49	114.30	109.90
1	AA	1143	G	N1-C6-O6	-5.49	116.60	119.90
1	AA	1159	U	C2-N3-C4	-5.49	123.70	127.00
1	AA	1422	G	N3-C4-C5	-5.49	125.85	128.60
5	AE	95	TRP	CB-CG-CD1	-5.49	119.86	127.00
6	AF	106	ARG	NE-CZ-NH2	5.49	123.05	120.30
26	BB	175	G	C5-C6-N1	-5.49	108.75	111.50
26	BB	408	G	C4'-C3'-C2'	-5.49	97.11	102.60
26	BB	758	C	P-O3'-C3'	5.49	126.29	119.70
26	BB	1531	C	C4'-C3'-C2'	-5.49	97.11	102.60
26	BB	1954	G	C8-N9-C4	-5.49	104.20	106.40
26	BB	2014	A	N1-C6-N6	-5.49	115.30	118.60
26	BB	2046	G	C5-C6-N1	5.49	114.25	111.50
26	BB	2282	G	P-O3'-C3'	5.49	126.29	119.70
26	BB	2824	C	N3-C2-O2	-5.49	118.06	121.90
30	BF	61	ARG	CD-NE-CZ	5.49	131.29	123.60
1	AA	479	U	O4'-C1'-C2'	5.49	112.54	107.60
1	AA	503	C	O5'-C5'-C4'	-5.49	101.27	111.70
1	AA	916	U	C5-C4-O4	5.49	129.19	125.90
26	BB	476	G	C5-C6-N1	5.49	114.25	111.50
26	BB	570	G	O5'-P-OP1	-5.49	100.76	105.70
26	BB	605	G	C6-C5-N7	-5.49	127.11	130.40
26	BB	1366	A	N7-C8-N9	5.49	116.55	113.80
26	BB	2852	G	N9-C1'-C2'	-5.49	105.96	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	22	G	N3-C4-C5	-5.49	125.85	128.60
1	AA	101	A	C3'-C2'-C1'	-5.49	97.11	101.50
1	AA	166	U	P-O3'-C3'	5.49	126.29	119.70
1	AA	355	C	C5-C6-N1	-5.49	118.25	121.00
1	AA	601	G	N3-C4-C5	-5.49	125.86	128.60
1	AA	963	G	OP2-P-O3'	5.49	117.28	105.20
1	AA	1096	C	C3'-C2'-C1'	5.49	105.89	101.50
1	AA	1381	U	C3'-C2'-C1'	-5.49	97.11	101.50
1	AA	1439	G	C4'-C3'-C2'	-5.49	97.11	102.60
26	BB	264	C	C5-C6-N1	5.49	123.75	121.00
26	BB	659	G	C5'-C4'-C3'	-5.49	107.21	116.00
26	BB	1071	G	C3'-C2'-C1'	-5.49	97.11	101.50
26	BB	1129	A	C1'-O4'-C4'	-5.49	105.51	109.90
26	BB	1516	G	C4-N9-C1'	-5.49	119.36	126.50
26	BB	1697	G	C2-N3-C4	5.49	114.65	111.90
26	BB	1872	A	C3'-C2'-C1'	-5.49	97.11	101.50
26	BB	1988	G	C4-N9-C1'	-5.49	119.36	126.50
26	BB	2553	G	C1'-O4'-C4'	5.49	114.29	109.90
26	BB	2898	U	C2-N3-C4	-5.49	123.71	127.00
1	AA	40	C	P-O3'-C3'	5.49	126.29	119.70
1	AA	101	A	C5'-C4'-O4'	5.49	115.69	109.10
1	AA	537	G	P-O3'-C3'	5.49	126.29	119.70
4	AD	15	G	N3-C2-N2	5.49	123.74	119.90
5	AE	133	ALA	N-CA-CB	5.49	117.78	110.10
6	AF	182	ASP	CB-CG-OD2	-5.49	113.36	118.30
26	BB	1	G	N3-C4-C5	-5.49	125.86	128.60
26	BB	302	C	N3-C4-C5	-5.49	119.70	121.90
26	BB	665	U	C5-C4-O4	-5.49	122.61	125.90
26	BB	706	A	C5'-C4'-O4'	5.49	115.69	109.10
26	BB	761	A	C6-N1-C2	-5.49	115.31	118.60
26	BB	1292	G	P-O3'-C3'	5.49	126.29	119.70
26	BB	1349	C	C4'-C3'-C2'	-5.49	97.11	102.60
26	BB	1624	U	N1-C2-O2	5.49	126.64	122.80
26	BB	1989	G	N1-C6-O6	-5.49	116.61	119.90
26	BB	2136	G	N1-C6-O6	-5.49	116.61	119.90
26	BB	2525	G	P-O3'-C3'	5.49	126.29	119.70
26	BB	2596	U	P-O3'-C3'	5.49	126.29	119.70
26	BB	2725	A	P-O3'-C3'	5.49	126.29	119.70
1	AA	29	U	C5-C4-O4	-5.49	122.61	125.90
1	AA	1130	A	N3-C4-C5	-5.49	122.96	126.80
26	BB	277	G	N9-C4-C5	5.49	107.59	105.40
26	BB	497	A	C3'-C2'-C1'	-5.49	97.11	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1635	A	P-O3'-C3'	5.49	126.28	119.70
26	BB	2082	A	C5'-C4'-C3'	-5.49	107.22	116.00
26	BB	2851	A	C5-C6-N1	5.49	120.44	117.70
49	BY	29	SER	CB-CA-C	5.49	120.53	110.10
50	BZ	73	ARG	NH1-CZ-NH2	-5.49	113.36	119.40
1	AA	41	G	C1'-O4'-C4'	-5.49	105.51	109.90
1	AA	231	U	N1-C2-O2	5.49	126.64	122.80
1	AA	310	G	C6-N1-C2	-5.49	121.81	125.10
1	AA	616	G	C5-C6-N1	5.49	114.24	111.50
1	AA	900	A	C3'-C2'-C1'	5.49	105.89	101.50
1	AA	1215	G	O5'-P-OP1	-5.49	100.76	105.70
1	AA	1240	U	C5'-C4'-O4'	-5.49	102.52	109.10
1	AA	1257	A	N3-C4-C5	-5.49	122.96	126.80
1	AA	1299	A	C5-N7-C8	-5.49	101.16	103.90
1	AA	1316	G	O4'-C1'-N9	5.49	112.59	108.20
1	AA	1385	G	C4'-C3'-C2'	-5.49	97.11	102.60
1	AA	1482	G	C8-N9-C4	-5.49	104.21	106.40
8	AH	49	TYR	CB-CG-CD1	5.49	124.29	121.00
8	AH	67	ARG	NE-CZ-NH2	5.49	123.04	120.30
26	BB	433	C	C6-N1-C2	-5.49	118.11	120.30
26	BB	1654	A	C5'-C4'-C3'	-5.49	107.22	116.00
26	BB	2881	U	N3-C4-O4	5.49	123.24	119.40
30	BF	162	ARG	NE-CZ-NH2	5.49	123.04	120.30
1	AA	15	G	N7-C8-N9	-5.48	110.36	113.10
1	AA	1177	G	N9-C1'-C2'	-5.48	105.97	112.00
1	AA	1476	A	N9-C1'-C2'	-5.48	105.97	112.00
26	BB	923	G	C4-C5-C6	5.48	122.09	118.80
26	BB	1708	C	P-O5'-C5'	5.48	129.68	120.90
26	BB	2352	A	C2-N3-C4	5.48	113.34	110.60
26	BB	2368	C	C1'-O4'-C4'	-5.48	105.51	109.90
1	AA	53	A	P-O3'-C3'	5.48	126.28	119.70
1	AA	276	G	N7-C8-N9	5.48	115.84	113.10
1	AA	1106	G	C4-C5-N7	-5.48	108.61	110.80
1	AA	1533	C	C6-N1-C2	5.48	122.49	120.30
3	AC	22	G	C5-C6-N1	5.48	114.24	111.50
9	AI	116	PHE	CB-CG-CD1	-5.48	116.96	120.80
25	BA	56	G	N3-C2-N2	-5.48	116.06	119.90
26	BB	685	A	N3-C4-C5	-5.48	122.96	126.80
26	BB	685	A	N9-C4-C5	5.48	107.99	105.80
26	BB	1080	A	C5-N7-C8	-5.48	101.16	103.90
26	BB	1209	U	C5'-C4'-O4'	5.48	115.68	109.10
26	BB	1890	A	C5-C6-N1	5.48	120.44	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2189	U	N1-C2-O2	5.48	126.64	122.80
1	AA	72	A	N1-C6-N6	-5.48	115.31	118.60
1	AA	112	G	C2-N3-C4	5.48	114.64	111.90
1	AA	131	A	C5'-C4'-C3'	-5.48	107.23	116.00
1	AA	1026	G	C4-C5-C6	5.48	122.09	118.80
4	AD	16	C	P-O3'-C3'	5.48	126.28	119.70
24	AX	59	LEU	CB-CG-CD1	5.48	120.32	111.00
26	BB	762	U	C1'-O4'-C4'	5.48	114.28	109.90
26	BB	1003	G	N3-C4-C5	5.48	131.34	128.60
26	BB	1051	G	C4-C5-N7	5.48	112.99	110.80
26	BB	1061	U	C6-N1-C2	-5.48	117.71	121.00
26	BB	1740	G	C3'-C2'-C1'	-5.48	97.12	101.50
26	BB	2511	U	N1-C2-N3	5.48	118.19	114.90
26	BB	2589	A	C4'-C3'-C2'	-5.48	97.12	102.60
27	BC	150	ALA	N-CA-CB	-5.48	102.43	110.10
28	BD	18	VAL	CA-CB-CG1	5.48	119.12	110.90
1	AA	261	U	C1'-O4'-C4'	-5.48	105.52	109.90
1	AA	841	C	N3-C4-C5	-5.48	119.71	121.90
1	AA	1237	C	N3-C4-C5	5.48	124.09	121.90
26	BB	491	G	C5'-C4'-O4'	5.48	115.67	109.10
26	BB	554	U	N3-C4-O4	5.48	123.24	119.40
26	BB	1813	G	C6-C5-N7	5.48	133.69	130.40
26	BB	2090	A	C5-C6-N6	-5.48	119.32	123.70
26	BB	2823	A	N9-C4-C5	5.48	107.99	105.80
1	AA	286	C	C5-C4-N4	-5.48	116.37	120.20
1	AA	329	A	P-O3'-C3'	5.48	126.27	119.70
1	AA	607	A	C4-C5-C6	-5.48	114.26	117.00
1	AA	922	G	O4'-C1'-N9	5.48	112.58	108.20
1	AA	1032	G	N3-C4-N9	5.48	129.29	126.00
1	AA	1119	C	N3-C2-O2	-5.48	118.07	121.90
1	AA	1331	G	C4-C5-N7	-5.48	108.61	110.80
11	AK	85	TYR	CB-CG-CD2	-5.48	117.71	121.00
26	BB	136	G	C4-C5-C6	5.48	122.09	118.80
26	BB	485	C	C5'-C4'-O4'	5.48	115.67	109.10
26	BB	1113	U	C5-C4-O4	5.48	129.19	125.90
26	BB	1120	G	P-O3'-C3'	5.48	126.27	119.70
26	BB	1411	U	N1-C1'-C2'	-5.48	105.97	112.00
26	BB	1555	G	N1-C6-O6	5.48	123.19	119.90
26	BB	1599	U	N3-C4-C5	-5.48	111.31	114.60
26	BB	2222	C	C4'-C3'-C2'	-5.48	97.12	102.60
26	BB	2227	A	C5-C6-N1	5.48	120.44	117.70
26	BB	2561	U	C5-C4-O4	-5.48	122.61	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2686	G	P-O3'-C3'	5.48	126.27	119.70
26	BB	2729	G	C8-N9-C1'	5.48	134.12	127.00
26	BB	2838	G	C6-N1-C2	5.48	128.39	125.10
1	AA	35	G	C4'-C3'-C2'	-5.48	97.12	102.60
1	AA	415	A	C4-C5-N7	5.48	113.44	110.70
2	AB	52	A	C2-N3-C4	-5.48	107.86	110.60
4	AD	37	U	C4'-C3'-C2'	-5.48	97.12	102.60
26	BB	894	U	C4'-C3'-C2'	-5.48	97.12	102.60
26	BB	1129	A	C6-N1-C2	5.48	121.89	118.60
26	BB	1558	C	O4'-C1'-C2'	5.48	112.53	107.60
26	BB	1920	C	N3-C4-C5	-5.48	119.71	121.90
26	BB	2694	G	C4-C5-N7	5.48	112.99	110.80
30	BF	55	SER	C-N-CA	5.48	133.80	122.30
1	AA	53	A	C5'-C4'-C3'	-5.47	107.24	116.00
1	AA	90	C	C5-C4-N4	-5.47	116.37	120.20
1	AA	200	G	C4-C5-N7	5.47	112.99	110.80
1	AA	301	G	C3'-C2'-C1'	5.47	105.88	101.50
1	AA	373	A	O4'-C1'-N9	-5.47	103.82	108.20
1	AA	518	C	C6-N1-C2	5.47	122.49	120.30
1	AA	612	C	N1-C2-O2	5.47	122.18	118.90
1	AA	712	A	C8-N9-C4	-5.47	103.61	105.80
1	AA	986	U	N3-C2-O2	-5.47	118.37	122.20
1	AA	1482	G	O5'-P-OP1	5.47	117.27	110.70
19	AS	16	PHE	N-CA-CB	-5.47	100.75	110.60
26	BB	212	G	N1-C2-N2	5.47	121.13	116.20
26	BB	236	C	P-O3'-C3'	5.47	126.27	119.70
26	BB	285	G	C2-N3-C4	-5.47	109.16	111.90
26	BB	347	A	C5-C6-N1	5.47	120.44	117.70
26	BB	511	U	C2-N3-C4	-5.47	123.72	127.00
26	BB	777	G	P-O3'-C3'	5.47	126.27	119.70
26	BB	880	G	C5-N7-C8	-5.47	101.56	104.30
26	BB	999	U	C4-C5-C6	5.47	122.98	119.70
26	BB	1464	G	C6-C5-N7	-5.47	127.11	130.40
26	BB	1620	G	N7-C8-N9	-5.47	110.36	113.10
26	BB	2512	C	C4'-C3'-C2'	-5.47	97.12	102.60
26	BB	2652	C	C4-C5-C6	-5.47	114.66	117.40
26	BB	2847	U	C5'-C4'-O4'	5.47	115.67	109.10
1	AA	142	G	N7-C8-N9	5.47	115.84	113.10
1	AA	640	A	P-O3'-C3'	5.47	126.27	119.70
1	AA	1039	G	N3-C4-N9	5.47	129.28	126.00
1	AA	1511	G	C5'-C4'-C3'	-5.47	107.25	116.00
1	AA	1529	G	C5'-C4'-O4'	-5.47	102.53	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	69	C	C1'-O4'-C4'	5.47	114.28	109.90
26	BB	162	U	N3-C2-O2	-5.47	118.37	122.20
26	BB	234	U	C5-C6-N1	-5.47	119.96	122.70
26	BB	240	C	C3'-C2'-C1'	5.47	105.88	101.50
26	BB	433	C	N3-C4-C5	-5.47	119.71	121.90
26	BB	446	G	C5-C6-O6	5.47	131.88	128.60
26	BB	636	G	C4-C5-N7	5.47	112.99	110.80
26	BB	1445	G	C1'-O4'-C4'	5.47	114.28	109.90
26	BB	1631	G	C5'-C4'-O4'	5.47	115.67	109.10
26	BB	2475	C	N1-C2-O2	5.47	122.18	118.90
26	BB	2535	G	C5'-C4'-O4'	5.47	115.67	109.10
26	BB	2864	G	C1'-O4'-C4'	-5.47	105.52	109.90
1	AA	318	G	C5-C6-O6	-5.47	125.32	128.60
1	AA	475	C	N1-C2-N3	-5.47	115.37	119.20
1	AA	500	G	O4'-C4'-C3'	5.47	110.48	106.10
1	AA	1490	U	O4'-C4'-C3'	-5.47	98.53	104.00
4	AD	11	A	C2-N3-C4	5.47	113.34	110.60
26	BB	398	C	O4'-C1'-N1	5.47	112.58	108.20
26	BB	1395	A	N1-C2-N3	5.47	132.03	129.30
26	BB	1745	A	C5-C6-N1	-5.47	114.97	117.70
26	BB	2039	U	N3-C4-O4	-5.47	115.57	119.40
26	BB	2181	U	C5'-C4'-O4'	5.47	115.67	109.10
26	BB	2456	C	C5-C6-N1	5.47	123.73	121.00
26	BB	2668	G	N3-C2-N2	-5.47	116.07	119.90
26	BB	2787	C	C2-N3-C4	5.47	122.64	119.90
1	AA	51	A	C1'-O4'-C4'	5.47	114.28	109.90
1	AA	113	G	C5'-C4'-O4'	5.47	115.66	109.10
1	AA	159	G	P-O5'-C5'	5.47	129.65	120.90
1	AA	524	G	P-O5'-C5'	5.47	129.65	120.90
1	AA	709	U	N1-C2-N3	5.47	118.18	114.90
1	AA	728	A	C5-N7-C8	-5.47	101.17	103.90
1	AA	771	G	C8-N9-C4	5.47	108.59	106.40
1	AA	875	U	C5'-C4'-O4'	5.47	115.66	109.10
1	AA	989	U	C3'-C2'-C1'	-5.47	97.12	101.50
1	AA	1017	U	C5-C4-O4	-5.47	122.62	125.90
1	AA	1210	C	C5-C4-N4	-5.47	116.37	120.20
1	AA	1471	U	C5-C6-N1	-5.47	119.97	122.70
25	BA	81	G	O5'-P-OP2	-5.47	100.78	105.70
26	BB	187	G	C8-N9-C4	-5.47	104.21	106.40
26	BB	272	A	N9-C1'-C2'	-5.47	105.98	112.00
26	BB	827	U	P-O3'-C3'	5.47	126.26	119.70
26	BB	1338	G	C4-C5-N7	-5.47	108.61	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1408	G	N9-C1'-C2'	-5.47	105.98	112.00
26	BB	1490	A	N9-C4-C5	-5.47	103.61	105.80
26	BB	2025	C	C2-N1-C1'	-5.47	112.78	118.80
26	BB	2454	G	C6-C5-N7	-5.47	127.12	130.40
26	BB	2845	U	N3-C2-O2	-5.47	118.37	122.20
1	AA	54	C	N1-C1'-C2'	-5.47	105.98	112.00
1	AA	537	G	N1-C2-N3	-5.47	120.62	123.90
1	AA	605	U	O4'-C1'-N1	5.47	112.57	108.20
1	AA	877	G	N3-C4-C5	-5.47	125.87	128.60
1	AA	1190	G	O4'-C1'-N9	5.47	112.57	108.20
1	AA	1356	G	O3'-P-O5'	-5.47	93.61	104.00
26	BB	415	A	N1-C6-N6	5.47	121.88	118.60
26	BB	438	G	C1'-O4'-C4'	5.47	114.28	109.90
26	BB	851	C	C3'-C2'-C1'	5.47	105.87	101.50
26	BB	987	C	N1-C2-O2	5.47	122.18	118.90
26	BB	1091	G	N3-C4-C5	-5.47	125.87	128.60
26	BB	1281	G	C4-C5-N7	-5.47	108.61	110.80
26	BB	1387	A	N1-C2-N3	-5.47	126.57	129.30
26	BB	1948	G	C1'-O4'-C4'	-5.47	105.53	109.90
26	BB	2031	A	C6-C5-N7	5.47	136.13	132.30
26	BB	2786	U	N3-C4-C5	-5.47	111.32	114.60
26	BB	2864	G	C6-N1-C2	-5.47	121.82	125.10
50	BZ	64	ASP	CB-CG-OD2	5.47	123.22	118.30
1	AA	276	G	C8-N9-C4	-5.47	104.21	106.40
1	AA	282	A	P-O3'-C3'	5.47	126.26	119.70
1	AA	319	G	O4'-C1'-N9	5.47	112.57	108.20
1	AA	783	C	C6-N1-C2	5.47	122.49	120.30
1	AA	916	U	C5-C6-N1	-5.47	119.97	122.70
1	AA	949	A	C4-C5-N7	5.47	113.43	110.70
1	AA	1354	U	C4-C5-C6	5.47	122.98	119.70
1	AA	1375	A	C6-N1-C2	-5.47	115.32	118.60
26	BB	155	A	C5'-C4'-O4'	5.47	115.66	109.10
26	BB	325	G	N3-C4-N9	-5.47	122.72	126.00
26	BB	1038	G	C2-N3-C4	-5.47	109.17	111.90
26	BB	1549	A	C4'-C3'-C2'	-5.47	97.13	102.60
26	BB	2023	C	C2-N1-C1'	-5.47	112.79	118.80
26	BB	2320	U	N1-C1'-C2'	5.47	121.11	114.00
26	BB	2626	C	N3-C4-N4	5.47	121.83	118.00
26	BB	2862	G	C4-C5-C6	5.47	122.08	118.80
1	AA	87	C	N3-C4-N4	5.46	121.83	118.00
1	AA	128	G	O4'-C4'-C3'	-5.46	98.53	104.00
1	AA	667	G	N3-C2-N2	-5.46	116.07	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	845	A	C3'-C2'-C1'	5.46	105.87	101.50
2	AB	69	C	N3-C2-O2	-5.46	118.08	121.90
3	AC	34	U	C5-C4-O4	5.46	129.18	125.90
6	AF	167	TYR	CD1-CE1-CZ	5.46	124.72	119.80
26	BB	454	A	N3-C4-C5	-5.46	122.97	126.80
26	BB	1037	G	N9-C1'-C2'	-5.46	105.99	112.00
26	BB	1513	U	N3-C4-O4	5.46	123.22	119.40
26	BB	1810	A	O4'-C4'-C3'	5.46	110.47	106.10
26	BB	1843	C	N3-C4-C5	-5.46	119.71	121.90
26	BB	1943	U	C3'-C2'-C1'	-5.46	97.13	101.50
26	BB	2003	A	C3'-C2'-C1'	5.46	105.87	101.50
26	BB	2087	G	C6-C5-N7	5.46	133.68	130.40
26	BB	2148	G	O5'-P-OP2	5.46	117.26	110.70
26	BB	2281	A	O4'-C1'-N9	5.46	112.57	108.20
26	BB	2323	G	C2-N3-C4	-5.46	109.17	111.90
26	BB	2556	C	N3-C4-C5	-5.46	119.71	121.90
26	BB	2763	G	N1-C6-O6	-5.46	116.62	119.90
39	BO	91	TYR	CB-CG-CD1	5.46	124.28	121.00
1	AA	666	G	C6-C5-N7	-5.46	127.12	130.40
1	AA	1092	A	C4-C5-C6	-5.46	114.27	117.00
1	AA	1239	A	C5-N7-C8	-5.46	101.17	103.90
25	BA	116	G	C8-N9-C1'	5.46	134.10	127.00
26	BB	697	G	C4-C5-N7	-5.46	108.61	110.80
26	BB	1086	A	N1-C2-N3	-5.46	126.57	129.30
26	BB	1535	A	N7-C8-N9	-5.46	111.07	113.80
26	BB	2056	G	C4-C5-N7	-5.46	108.61	110.80
26	BB	2120	G	C6-N1-C2	-5.46	121.82	125.10
26	BB	2262	U	C6-N1-C2	-5.46	117.72	121.00
1	AA	80	A	C4-C5-C6	5.46	119.73	117.00
1	AA	693	G	C4-C5-C6	5.46	122.08	118.80
1	AA	802	A	C5-C6-N1	-5.46	114.97	117.70
1	AA	1477	U	O4'-C4'-C3'	-5.46	98.54	104.00
3	AC	37	G	C5'-C4'-O4'	5.46	115.65	109.10
26	BB	171	U	C5-C6-N1	-5.46	119.97	122.70
26	BB	572	A	C8-N9-C4	-5.46	103.62	105.80
26	BB	697	G	N3-C4-C5	-5.46	125.87	128.60
26	BB	797	G	O4'-C1'-N9	5.46	112.57	108.20
26	BB	1522	A	C6-C5-N7	5.46	136.12	132.30
26	BB	1685	C	N3-C4-N4	5.46	121.82	118.00
26	BB	1693	U	N3-C4-C5	-5.46	111.32	114.60
26	BB	2746	U	C5-C6-N1	-5.46	119.97	122.70
1	AA	683	G	N1-C2-N2	-5.46	111.29	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	76	C	P-O3'-C3'	5.46	126.25	119.70
26	BB	93	G	O4'-C1'-C2'	-5.46	100.34	105.80
26	BB	105	C	C4'-C3'-C2'	-5.46	97.14	102.60
26	BB	783	A	N1-C6-N6	-5.46	115.32	118.60
26	BB	1228	G	N9-C1'-C2'	-5.46	105.99	112.00
26	BB	1420	A	N7-C8-N9	-5.46	111.07	113.80
26	BB	2317	A	C4-C5-C6	5.46	119.73	117.00
26	BB	2414	G	C5'-C4'-O4'	5.46	115.65	109.10
26	BB	2536	G	C4-C5-N7	5.46	112.98	110.80
26	BB	2755	C	C4-C5-C6	5.46	120.13	117.40
1	AA	215	C	C6-N1-C2	-5.46	118.12	120.30
1	AA	538	G	O4'-C1'-N9	5.46	112.57	108.20
1	AA	783	C	O4'-C1'-N1	5.46	112.57	108.20
1	AA	843	U	C5-C6-N1	5.46	125.43	122.70
1	AA	1043	G	O4'-C1'-N9	5.46	112.57	108.20
1	AA	1295	U	N1-C2-O2	5.46	126.62	122.80
1	AA	1348	U	C6-N1-C2	5.46	124.28	121.00
4	AD	19	G	N3-C4-N9	5.46	129.28	126.00
4	AD	50	G	C6-C5-N7	-5.46	127.12	130.40
14	AN	11	VAL	CG1-CB-CG2	-5.46	102.17	110.90
20	AT	61	ARG	NH1-CZ-NH2	-5.46	113.39	119.40
25	BA	15	A	N3-C4-C5	-5.46	122.98	126.80
26	BB	206	U	O4'-C1'-N1	5.46	112.57	108.20
26	BB	432	A	C5-N7-C8	5.46	106.63	103.90
26	BB	437	U	P-O3'-C3'	5.46	126.25	119.70
26	BB	603	A	C4'-C3'-C2'	-5.46	97.14	102.60
26	BB	818	G	C4-C5-C6	-5.46	115.53	118.80
26	BB	1089	A	C5-N7-C8	-5.46	101.17	103.90
26	BB	1775	U	O4'-C1'-N1	5.46	112.57	108.20
26	BB	2374	C	C5'-C4'-O4'	5.46	115.65	109.10
26	BB	2460	U	O5'-C5'-C4'	5.46	122.07	111.70
1	AA	989	U	N1-C2-O2	-5.46	118.98	122.80
1	AA	1045	C	N3-C4-C5	-5.46	119.72	121.90
5	AE	62	ARG	CD-NE-CZ	5.46	131.24	123.60
26	BB	52	A	N9-C4-C5	5.46	107.98	105.80
26	BB	620	G	C5'-C4'-O4'	5.46	115.65	109.10
26	BB	837	C	O4'-C4'-C3'	5.46	110.47	106.10
26	BB	1203	U	C3'-C2'-C1'	5.46	105.86	101.50
26	BB	1253	A	O4'-C4'-C3'	5.46	110.47	106.10
26	BB	1514	G	N1-C6-O6	5.46	123.17	119.90
26	BB	1517	G	N1-C2-N3	-5.46	120.63	123.90
26	BB	1777	U	C5'-C4'-C3'	-5.46	107.27	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2024	G	N7-C8-N9	-5.46	110.37	113.10
26	BB	2531	A	N7-C8-N9	-5.46	111.07	113.80
26	BB	2890	G	C4-C5-N7	-5.46	108.62	110.80
37	BM	79	PHE	CB-CG-CD1	5.46	124.62	120.80
1	AA	439	U	O4'-C1'-N1	5.46	112.56	108.20
1	AA	1162	C	C3'-C2'-C1'	-5.46	97.14	101.50
25	BA	41	G	C5-C6-N1	5.46	114.23	111.50
26	BB	541	A	O4'-C4'-C3'	5.46	110.46	106.10
26	BB	2422	C	C1'-O4'-C4'	5.46	114.26	109.90
1	AA	195	A	C5'-C4'-C3'	-5.45	107.27	116.00
1	AA	825	A	C6-N1-C2	-5.45	115.33	118.60
1	AA	1334	G	N1-C2-N3	-5.45	120.63	123.90
3	AC	39	U	C5'-C4'-C3'	-5.45	107.28	116.00
18	AR	63	ARG	NE-CZ-NH2	-5.45	117.57	120.30
26	BB	103	A	C5'-C4'-C3'	-5.45	107.27	116.00
26	BB	763	G	O4'-C1'-C2'	-5.45	100.35	105.80
26	BB	1535	A	P-O3'-C3'	5.45	126.24	119.70
26	BB	1925	C	N1-C2-N3	-5.45	115.38	119.20
26	BB	1955	U	O4'-C1'-C2'	-5.45	100.35	105.80
26	BB	1999	C	C5'-C4'-C3'	-5.45	107.27	116.00
26	BB	2010	G	O4'-C1'-N9	5.45	112.56	108.20
26	BB	2032	G	N9-C1'-C2'	5.45	121.09	114.00
26	BB	2342	C	N3-C4-C5	5.45	124.08	121.90
56	B5	21	ARG	NE-CZ-NH2	5.45	123.03	120.30
1	AA	488	C	P-O3'-C3'	5.45	126.24	119.70
1	AA	1328	C	C5-C4-N4	5.45	124.02	120.20
26	BB	330	A	C3'-C2'-C1'	5.45	105.86	101.50
26	BB	830	G	C5'-C4'-O4'	5.45	115.64	109.10
26	BB	1106	G	C8-N9-C4	-5.45	104.22	106.40
26	BB	1410	G	C4'-C3'-C2'	-5.45	97.15	102.60
26	BB	1654	A	N9-C4-C5	-5.45	103.62	105.80
26	BB	1811	G	C5-C6-N1	5.45	114.23	111.50
26	BB	2714	G	N3-C2-N2	5.45	123.72	119.90
26	BB	2883	A	N7-C8-N9	5.45	116.53	113.80
1	AA	863	U	C6-N1-C2	-5.45	117.73	121.00
1	AA	906	A	C3'-C2'-C1'	-5.45	97.14	101.50
1	AA	1071	C	N3-C4-N4	-5.45	114.18	118.00
1	AA	1105	A	N7-C8-N9	5.45	116.53	113.80
1	AA	1126	U	C2-N3-C4	5.45	130.27	127.00
1	AA	1317	C	N3-C4-C5	-5.45	119.72	121.90
4	AD	47	A	C5'-C4'-C3'	5.45	124.72	116.00
26	BB	110	G	P-O3'-C3'	5.45	126.24	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	123	G	N9-C4-C5	-5.45	103.22	105.40
26	BB	317	G	N9-C1'-C2'	-5.45	106.00	112.00
26	BB	347	A	O4'-C1'-N9	5.45	112.56	108.20
26	BB	390	U	N1-C2-N3	5.45	118.17	114.90
26	BB	1377	G	C5-C6-O6	-5.45	125.33	128.60
26	BB	1452	G	N9-C4-C5	5.45	107.58	105.40
26	BB	1538	G	C4'-C3'-C2'	-5.45	97.15	102.60
26	BB	1879	C	C6-N1-C2	-5.45	118.12	120.30
26	BB	2421	G	C4'-C3'-C2'	-5.45	97.15	102.60
26	BB	2578	G	N1-C6-O6	-5.45	116.63	119.90
26	BB	2622	U	C2-N3-C4	-5.45	123.73	127.00
1	AA	72	A	N3-C4-C5	5.45	130.61	126.80
1	AA	534	U	C4'-C3'-C2'	-5.45	97.15	102.60
1	AA	611	C	C3'-C2'-C1'	5.45	105.86	101.50
1	AA	804	U	P-O3'-C3'	5.45	126.24	119.70
1	AA	962	C	C2-N3-C4	-5.45	117.18	119.90
1	AA	1455	G	N1-C2-N2	5.45	121.10	116.20
25	BA	59	A	C5-C6-N1	5.45	120.42	117.70
26	BB	69	C	O4'-C1'-N1	5.45	112.56	108.20
26	BB	170	U	N3-C4-C5	5.45	117.87	114.60
26	BB	400	G	N3-C4-C5	-5.45	125.88	128.60
26	BB	458	G	O4'-C1'-C2'	-5.45	100.35	105.80
26	BB	888	C	C5-C4-N4	5.45	124.01	120.20
26	BB	1228	G	N7-C8-N9	-5.45	110.38	113.10
26	BB	1572	A	N7-C8-N9	5.45	116.52	113.80
26	BB	1733	G	C4'-C3'-C2'	-5.45	97.15	102.60
26	BB	2172	U	C2-N3-C4	-5.45	123.73	127.00
26	BB	2196	C	C5-C4-N4	5.45	124.01	120.20
26	BB	2630	G	N9-C4-C5	-5.45	103.22	105.40
26	BB	2883	A	C5-C6-N1	5.45	120.42	117.70
43	BS	7	VAL	CA-CB-CG2	5.45	119.07	110.90
26	BB	283	G	N3-C2-N2	-5.45	116.09	119.90
26	BB	400	G	C6-N1-C2	-5.45	121.83	125.10
26	BB	1491	G	N1-C2-N3	5.45	127.17	123.90
26	BB	2396	G	N7-C8-N9	5.45	115.82	113.10
26	BB	2812	G	C8-N9-C1'	5.45	134.08	127.00
1	AA	242	G	N3-C4-C5	-5.45	125.88	128.60
1	AA	325	A	C3'-C2'-C1'	5.45	105.86	101.50
1	AA	458	U	N3-C4-O4	5.45	123.21	119.40
1	AA	491	G	O4'-C1'-N9	5.45	112.56	108.20
1	AA	514	C	N3-C4-N4	-5.45	114.19	118.00
1	AA	723	U	N1-C1'-C2'	-5.45	106.01	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1030	U	O4'-C1'-C2'	-5.45	100.36	105.80
1	AA	1053	G	O4'-C1'-N9	5.45	112.56	108.20
1	AA	1086	U	C2-N1-C1'	5.45	124.23	117.70
26	BB	23	G	C4-N9-C1'	5.45	133.58	126.50
26	BB	97	C	C5-C4-N4	5.45	124.01	120.20
26	BB	384	A	C2-N3-C4	5.45	113.32	110.60
26	BB	1138	G	C4'-C3'-C2'	-5.45	97.15	102.60
26	BB	1163	G	C5-C6-O6	-5.45	125.33	128.60
26	BB	1279	G	N3-C2-N2	-5.45	116.09	119.90
26	BB	1418	G	N1-C2-N3	5.45	127.17	123.90
26	BB	1429	G	C4-C5-C6	5.45	122.07	118.80
26	BB	1496	A	C1'-O4'-C4'	5.45	114.26	109.90
26	BB	1523	U	C2-N3-C4	-5.45	123.73	127.00
26	BB	1634	A	N9-C4-C5	5.45	107.98	105.80
26	BB	1791	A	N9-C1'-C2'	-5.45	106.01	112.00
26	BB	1999	C	C5'-C4'-O4'	5.45	115.63	109.10
26	BB	2021	C	N1-C2-N3	-5.45	115.39	119.20
1	AA	201	G	N9-C4-C5	-5.44	103.22	105.40
1	AA	819	A	P-O3'-C3'	5.44	126.23	119.70
3	AC	56	G	N7-C8-N9	5.44	115.82	113.10
26	BB	52	A	N7-C8-N9	5.44	116.52	113.80
26	BB	232	G	C4-C5-N7	-5.44	108.62	110.80
26	BB	403	U	P-O3'-C3'	5.44	126.23	119.70
26	BB	460	A	C5-N7-C8	5.44	106.62	103.90
26	BB	1288	G	N3-C4-N9	5.44	129.27	126.00
26	BB	1375	U	C5-C6-N1	5.44	125.42	122.70
26	BB	1475	G	C6-C5-N7	-5.44	127.13	130.40
26	BB	1531	C	C2-N3-C4	5.44	122.62	119.90
26	BB	1684	G	N3-C4-C5	-5.44	125.88	128.60
26	BB	2298	A	N9-C1'-C2'	-5.44	106.01	112.00
1	AA	46	G	N9-C4-C5	5.44	107.58	105.40
1	AA	93	U	C4'-C3'-C2'	-5.44	97.16	102.60
1	AA	116	A	C4-C5-N7	-5.44	107.98	110.70
1	AA	167	A	O4'-C1'-N9	5.44	112.56	108.20
1	AA	276	G	N1-C6-O6	5.44	123.17	119.90
1	AA	371	A	N9-C4-C5	-5.44	103.62	105.80
1	AA	446	G	C5-C6-O6	5.44	131.87	128.60
1	AA	689	C	O4'-C1'-N1	5.44	112.55	108.20
1	AA	719	C	N3-C4-N4	-5.44	114.19	118.00
1	AA	727	G	C4-C5-N7	5.44	112.98	110.80
1	AA	986	U	C2-N3-C4	-5.44	123.73	127.00
1	AA	1192	C	C4'-C3'-O3'	5.44	123.89	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	AL	37	TYR	CG-CD2-CE2	-5.44	116.94	121.30
22	AV	54	ARG	NE-CZ-NH1	-5.44	117.58	120.30
26	BB	416	U	N1-C2-O2	-5.44	118.99	122.80
26	BB	435	C	C4-C5-C6	-5.44	114.68	117.40
26	BB	459	U	O4'-C1'-N1	5.44	112.55	108.20
26	BB	1099	G	N3-C2-N2	-5.44	116.09	119.90
26	BB	1261	C	C5-C4-N4	-5.44	116.39	120.20
26	BB	1362	C	N3-C4-C5	-5.44	119.72	121.90
26	BB	1448	G	C8-N9-C4	-5.44	104.22	106.40
26	BB	1552	A	C4-C5-N7	-5.44	107.98	110.70
26	BB	1861	G	C5-C6-O6	-5.44	125.33	128.60
26	BB	1914	C	C5-C4-N4	5.44	124.01	120.20
26	BB	1971	U	O4'-C4'-C3'	5.44	110.45	106.10
26	BB	2831	G	N9-C4-C5	5.44	107.58	105.40
56	B5	35	ARG	NH1-CZ-NH2	-5.44	113.41	119.40
1	AA	379	C	O5'-C5'-C4'	5.44	122.04	111.70
1	AA	668	G	C4'-C3'-C2'	-5.44	97.16	102.60
6	AF	17	TRP	CE2-CD2-CE3	-5.44	112.17	118.70
26	BB	226	A	N1-C6-N6	5.44	121.86	118.60
26	BB	414	C	N3-C2-O2	-5.44	118.09	121.90
26	BB	1202	G	C3'-C2'-C1'	5.44	105.85	101.50
26	BB	1419	A	C8-N9-C4	5.44	107.98	105.80
26	BB	2290	G	N7-C8-N9	5.44	115.82	113.10
26	BB	2730	C	N3-C4-N4	-5.44	114.19	118.00
26	BB	2745	C	N1-C2-O2	-5.44	115.64	118.90
26	BB	2770	G	C1'-O4'-C4'	5.44	114.25	109.90
26	BB	2822	G	O4'-C1'-C2'	-5.44	100.36	105.80
26	BB	2876	G	C4-C5-N7	-5.44	108.62	110.80
39	BO	94	ALA	CB-CA-C	5.44	118.26	110.10
1	AA	1049	U	C2-N1-C1'	-5.44	111.17	117.70
1	AA	1358	U	C5-C6-N1	-5.44	119.98	122.70
26	BB	447	A	N3-C4-N9	5.44	131.75	127.40
26	BB	1432	G	N1-C6-O6	-5.44	116.64	119.90
26	BB	2253	G	C6-N1-C2	-5.44	121.84	125.10
26	BB	2323	G	C3'-C2'-C1'	5.44	105.85	101.50
32	BH	73	SER	O-C-N	5.44	131.40	122.70
1	AA	11	G	N3-C2-N2	-5.44	116.09	119.90
1	AA	616	G	C8-N9-C4	5.44	108.58	106.40
1	AA	783	C	C5'-C4'-O4'	5.44	115.63	109.10
1	AA	1278	G	N7-C8-N9	5.44	115.82	113.10
1	AA	1297	G	C2-N3-C4	5.44	114.62	111.90
22	AV	54	ARG	CD-NE-CZ	5.44	131.21	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	95	U	C4'-C3'-C2'	-5.44	97.16	102.60
26	BB	385	C	N1-C2-N3	-5.44	115.39	119.20
26	BB	817	C	C5'-C4'-O4'	5.44	115.63	109.10
26	BB	1249	U	O4'-C4'-C3'	5.44	110.45	106.10
26	BB	1271	G	O4'-C4'-C3'	-5.44	98.56	104.00
26	BB	1283	G	C8-N9-C1'	5.44	134.07	127.00
26	BB	1954	G	N1-C2-N3	-5.44	120.64	123.90
26	BB	2256	G	N9-C1'-C2'	-5.44	106.02	112.00
26	BB	2628	C	C2-N3-C4	5.44	122.62	119.90
26	BB	2849	U	O5'-C5'-C4'	-5.44	101.37	111.70
32	BH	93	TYR	CB-CG-CD2	-5.44	117.74	121.00
44	BT	35	PHE	CB-CG-CD2	5.44	124.61	120.80
1	AA	648	A	C4-C5-C6	-5.44	114.28	117.00
1	AA	677	U	N3-C4-O4	5.44	123.20	119.40
1	AA	991	U	C5-C6-N1	-5.44	119.98	122.70
1	AA	1171	A	C1'-O4'-C4'	-5.44	105.55	109.90
26	BB	484	C	C4'-C3'-C2'	-5.44	97.16	102.60
26	BB	1242	U	N3-C4-C5	-5.44	111.34	114.60
26	BB	1723	G	C5-C6-N1	5.44	114.22	111.50
26	BB	2043	C	N1-C2-O2	5.44	122.16	118.90
1	AA	457	G	C4-C5-C6	5.43	122.06	118.80
1	AA	481	G	C5'-C4'-O4'	5.43	115.62	109.10
1	AA	870	U	P-O3'-C3'	5.43	126.22	119.70
1	AA	924	C	C5-C6-N1	5.43	123.72	121.00
1	AA	1202	U	N3-C2-O2	-5.43	118.39	122.20
1	AA	1272	G	N1-C6-O6	5.43	123.16	119.90
1	AA	1465	A	C2-N3-C4	5.43	113.32	110.60
1	AA	1515	G	C6-C5-N7	5.43	133.66	130.40
2	AB	30	G	C6-N1-C2	5.43	128.36	125.10
2	AB	74	C	N3-C4-N4	-5.43	114.19	118.00
18	AR	44	GLU	N-CA-CB	-5.43	100.82	110.60
25	BA	21	G	C1'-O4'-C4'	-5.43	105.55	109.90
26	BB	615	U	C5-C6-N1	-5.43	119.98	122.70
26	BB	624	C	C4'-C3'-C2'	-5.43	97.17	102.60
26	BB	787	C	N3-C4-C5	5.43	124.07	121.90
26	BB	862	G	O4'-C1'-N9	5.43	112.55	108.20
26	BB	865	C	C1'-O4'-C4'	5.43	114.25	109.90
26	BB	873	C	C5-C4-N4	-5.43	116.40	120.20
26	BB	1173	U	P-O3'-C3'	5.43	126.22	119.70
26	BB	1480	C	N3-C4-C5	5.43	124.07	121.90
26	BB	1941	C	C4-C5-C6	5.43	120.12	117.40
26	BB	2144	G	O4'-C1'-N9	-5.43	103.85	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2283	C	OP1-P-OP2	5.43	127.75	119.60
26	BB	2389	G	C5-N7-C8	5.43	107.02	104.30
26	BB	2397	G	N3-C4-C5	-5.43	125.88	128.60
26	BB	2424	C	N1-C2-N3	5.43	123.00	119.20
26	BB	2494	G	C6-N1-C2	-5.43	121.84	125.10
26	BB	2736	A	C6-C5-N7	5.43	136.10	132.30
1	AA	76	G	N7-C8-N9	5.43	115.82	113.10
1	AA	157	U	C6-N1-C2	-5.43	117.74	121.00
1	AA	224	U	N3-C2-O2	-5.43	118.40	122.20
1	AA	348	G	N7-C8-N9	5.43	115.82	113.10
1	AA	803	G	C5-C6-N1	5.43	114.22	111.50
1	AA	1041	G	C5-C6-N1	5.43	114.22	111.50
1	AA	1241	G	C5-N7-C8	5.43	107.02	104.30
11	AK	10	LEU	CB-CG-CD2	5.43	120.23	111.00
21	AU	31	TYR	CD1-CE1-CZ	5.43	124.69	119.80
25	BA	6	G	C8-N9-C4	-5.43	104.23	106.40
26	BB	8	C	N1-C2-N3	-5.43	115.40	119.20
26	BB	23	G	O4'-C4'-C3'	5.43	110.45	106.10
26	BB	47	C	N3-C2-O2	-5.43	118.10	121.90
26	BB	107	G	N1-C6-O6	5.43	123.16	119.90
26	BB	171	U	C5'-C4'-O4'	5.43	115.62	109.10
26	BB	239	C	C2-N3-C4	-5.43	117.18	119.90
26	BB	352	A	C5'-C4'-C3'	-5.43	107.31	116.00
26	BB	439	A	O4'-C1'-N9	5.43	112.55	108.20
26	BB	638	G	C4-C5-N7	5.43	112.97	110.80
26	BB	788	A	C4-C5-C6	5.43	119.72	117.00
26	BB	824	U	C1'-O4'-C4'	-5.43	105.55	109.90
26	BB	857	G	N1-C6-O6	-5.43	116.64	119.90
26	BB	960	A	P-O3'-C3'	5.43	126.22	119.70
26	BB	2130	U	N1-C2-O2	5.43	126.60	122.80
26	BB	2207	C	N1-C2-O2	5.43	122.16	118.90
26	BB	2371	G	N3-C4-C5	-5.43	125.88	128.60
26	BB	2602	A	C4-C5-N7	-5.43	107.98	110.70
26	BB	2618	G	O3'-P-O5'	-5.43	93.68	104.00
26	BB	2648	G	N9-C1'-C2'	-5.43	106.02	112.00
1	AA	772	U	N1-C2-O2	5.43	126.60	122.80
1	AA	1054	C	O4'-C1'-N1	5.43	112.54	108.20
25	BA	16	G	N1-C2-N3	5.43	127.16	123.90
26	BB	89	A	C5'-C4'-C3'	-5.43	107.31	116.00
26	BB	222	A	N3-C4-C5	-5.43	123.00	126.80
26	BB	923	G	C5-N7-C8	5.43	107.02	104.30
26	BB	1913	A	C5'-C4'-O4'	5.43	115.62	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1920	C	O4'-C1'-C2'	-5.43	100.37	105.80
26	BB	2150	C	C5-C4-N4	5.43	124.00	120.20
1	AA	28	A	C8-N9-C4	-5.43	103.63	105.80
1	AA	171	A	N7-C8-N9	5.43	116.52	113.80
1	AA	428	G	C2-N3-C4	5.43	114.61	111.90
1	AA	1246	A	C5-C6-N1	5.43	120.42	117.70
3	AC	40	G	N1-C2-N3	-5.43	120.64	123.90
4	AD	75	C	C2-N3-C4	-5.43	117.19	119.90
26	BB	115	C	C6-N1-C2	5.43	122.47	120.30
26	BB	579	G	N7-C8-N9	5.43	115.81	113.10
26	BB	1248	G	C5-C6-N1	5.43	114.22	111.50
26	BB	1550	C	N3-C4-N4	5.43	121.80	118.00
26	BB	2281	A	N9-C4-C5	5.43	107.97	105.80
26	BB	2728	U	C2-N3-C4	-5.43	123.74	127.00
26	BB	2858	C	C5-C4-N4	5.43	124.00	120.20
27	BC	15	VAL	CA-CB-CG1	5.43	119.04	110.90
29	BE	125	TRP	CB-CG-CD2	5.43	133.66	126.60
1	AA	56	U	N1-C2-N3	5.43	118.16	114.90
1	AA	149	A	C1'-O4'-C4'	-5.43	105.56	109.90
1	AA	495	A	C3'-C2'-C1'	-5.43	97.16	101.50
1	AA	814	A	C5-C6-N6	5.43	128.04	123.70
4	AD	54	G	C5-C6-N1	5.43	114.21	111.50
6	AF	200	TRP	NE1-CE2-CD2	-5.43	101.87	107.30
26	BB	1620	G	C4-N9-C1'	-5.43	119.44	126.50
26	BB	2358	A	N9-C4-C5	5.43	107.97	105.80
1	AA	112	G	C6-C5-N7	-5.43	127.14	130.40
1	AA	333	U	O4'-C1'-N1	5.43	112.54	108.20
1	AA	337	G	N9-C4-C5	5.43	107.57	105.40
1	AA	391	G	C4-C5-C6	5.43	122.06	118.80
1	AA	414	A	C3'-C2'-C1'	-5.43	97.16	101.50
1	AA	749	A	C6-N1-C2	-5.43	115.34	118.60
1	AA	1066	C	C4-C5-C6	5.43	120.11	117.40
2	AB	66	C	C1'-O4'-C4'	5.43	114.24	109.90
7	AG	106	PHE	C-N-CA	5.43	133.70	122.30
26	BB	162	U	C2-N3-C4	-5.43	123.74	127.00
26	BB	217	A	C5'-C4'-C3'	-5.43	107.32	116.00
26	BB	392	U	N1-C2-O2	-5.43	119.00	122.80
26	BB	590	A	C8-N9-C4	-5.43	103.63	105.80
26	BB	893	C	O4'-C1'-N1	5.43	112.54	108.20
26	BB	1783	A	C5-N7-C8	-5.43	101.19	103.90
26	BB	2084	C	N3-C2-O2	-5.43	118.10	121.90
26	BB	2451	A	C4'-C3'-C2'	-5.43	97.17	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2562	U	C5-C6-N1	-5.43	119.99	122.70
26	BB	2617	U	N1-C2-O2	5.43	126.60	122.80
26	BB	2802	G	O4'-C1'-N9	5.43	112.54	108.20
42	BR	42	PHE	CB-CG-CD1	-5.43	117.00	120.80
1	AA	107	G	N9-C1'-C2'	-5.42	106.03	112.00
1	AA	523	A	N1-C2-N3	5.42	132.01	129.30
1	AA	962	C	C6-N1-C2	5.42	122.47	120.30
1	AA	1121	U	C5'-C4'-O4'	5.42	115.61	109.10
1	AA	1134	G	N1-C6-O6	-5.42	116.64	119.90
1	AA	1514	G	C4-C5-C6	-5.42	115.55	118.80
4	AD	53	G	C5-C6-O6	5.42	131.85	128.60
13	AM	97	ASP	CB-CG-OD2	5.42	123.18	118.30
25	BA	72	G	C4-C5-C6	-5.42	115.55	118.80
26	BB	262	A	O4'-C1'-N9	5.42	112.54	108.20
26	BB	529	A	N1-C2-N3	5.42	132.01	129.30
26	BB	688	U	C5-C6-N1	-5.42	119.99	122.70
26	BB	1248	G	C4-C5-N7	-5.42	108.63	110.80
26	BB	1296	G	N7-C8-N9	5.42	115.81	113.10
26	BB	1581	G	C5-C6-N1	5.42	114.21	111.50
26	BB	2236	U	C4-C5-C6	5.42	122.95	119.70
26	BB	2250	G	N1-C2-N3	-5.42	120.64	123.90
26	BB	2607	G	N3-C2-N2	5.42	123.70	119.90
26	BB	2661	G	N7-C8-N9	5.42	115.81	113.10
1	AA	61	G	C5'-C4'-O4'	5.42	115.61	109.10
1	AA	869	G	C5-C6-N1	5.42	114.21	111.50
25	BA	18	G	C3'-C2'-C1'	-5.42	97.16	101.50
26	BB	27	G	C2-N3-C4	-5.42	109.19	111.90
26	BB	294	A	C2-N3-C4	5.42	113.31	110.60
26	BB	1264	A	N7-C8-N9	5.42	116.51	113.80
26	BB	1866	A	C5'-C4'-O4'	5.42	115.61	109.10
26	BB	2389	G	C6-N1-C2	-5.42	121.85	125.10
43	BS	116	LEU	CB-CG-CD1	5.42	120.22	111.00
1	AA	167	A	C5-N7-C8	-5.42	101.19	103.90
1	AA	262	A	C3'-C2'-C1'	5.42	105.84	101.50
1	AA	537	G	N7-C8-N9	5.42	115.81	113.10
1	AA	1295	U	N3-C4-C5	5.42	117.85	114.60
1	AA	1328	C	N3-C4-N4	-5.42	114.20	118.00
1	AA	1333	A	N9-C1'-C2'	-5.42	106.04	112.00
1	AA	1398	A	C3'-C2'-C1'	-5.42	97.16	101.50
1	AA	1500	A	O5'-C5'-C4'	-5.42	101.40	111.70
17	AQ	64	ARG	NE-CZ-NH1	-5.42	117.59	120.30
26	BB	73	A	O4'-C4'-C3'	5.42	110.44	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	778	G	N1-C6-O6	-5.42	116.65	119.90
26	BB	995	C	C2-N3-C4	5.42	122.61	119.90
26	BB	1241	A	N7-C8-N9	-5.42	111.09	113.80
26	BB	1246	A	C4'-C3'-C2'	-5.42	97.18	102.60
26	BB	1477	A	C5-C6-N6	5.42	128.04	123.70
26	BB	1705	A	C5-C6-N6	-5.42	119.36	123.70
26	BB	1739	A	C1'-O4'-C4'	-5.42	105.56	109.90
26	BB	1839	G	C5-C6-N1	5.42	114.21	111.50
26	BB	1923	U	C5'-C4'-O4'	5.42	115.61	109.10
26	BB	2344	U	C5-C6-N1	-5.42	119.99	122.70
27	BC	112	ASP	CB-CG-OD2	-5.42	113.42	118.30
1	AA	645	G	C6-C5-N7	-5.42	127.15	130.40
1	AA	1195	C	N1-C2-O2	5.42	122.15	118.90
26	BB	473	G	C5'-C4'-C3'	-5.42	107.33	116.00
26	BB	688	U	N3-C2-O2	-5.42	118.41	122.20
26	BB	870	U	C5'-C4'-O4'	5.42	115.60	109.10
26	BB	1359	A	C4'-C3'-C2'	-5.42	97.18	102.60
26	BB	1360	G	C6-C5-N7	-5.42	127.15	130.40
26	BB	1980	G	C4-C5-N7	5.42	112.97	110.80
26	BB	2208	C	C4-C5-C6	-5.42	114.69	117.40
26	BB	2505	G	C5-N7-C8	5.42	107.01	104.30
1	AA	8	A	C5-C6-N1	-5.42	114.99	117.70
1	AA	162	A	C2-N3-C4	5.42	113.31	110.60
1	AA	218	U	C4'-C3'-C2'	-5.42	97.18	102.60
1	AA	314	C	O4'-C1'-N1	5.42	112.53	108.20
1	AA	505	G	N3-C4-C5	-5.42	125.89	128.60
1	AA	714	G	N3-C2-N2	5.42	123.69	119.90
1	AA	734	G	C1'-O4'-C4'	5.42	114.23	109.90
1	AA	1037	C	P-O5'-C5'	5.42	129.57	120.90
1	AA	1426	G	N9-C1'-C2'	-5.42	106.04	112.00
2	AB	66	C	N1-C2-N3	-5.42	115.41	119.20
11	AK	76	ARG	NE-CZ-NH2	5.42	123.01	120.30
26	BB	49	A	C8-N9-C4	-5.42	103.63	105.80
26	BB	540	C	C3'-C2'-C1'	5.42	105.84	101.50
26	BB	718	A	C4'-C3'-C2'	-5.42	97.18	102.60
26	BB	968	C	C5-C6-N1	5.42	123.71	121.00
26	BB	996	A	P-O3'-C3'	5.42	126.20	119.70
26	BB	1124	G	N9-C1'-C2'	-5.42	106.04	112.00
26	BB	2092	U	N3-C4-C5	5.42	117.85	114.60
26	BB	2106	U	C2'-C3'-O3'	5.42	122.37	113.70
26	BB	2321	U	C2-N1-C1'	5.42	124.20	117.70
26	BB	2713	U	N3-C2-O2	-5.42	118.41	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	BH	109	SER	N-CA-CB	-5.42	102.37	110.50
1	AA	31	G	C6-N1-C2	5.42	128.35	125.10
1	AA	748	G	N9-C1'-C2'	-5.42	106.04	112.00
1	AA	792	A	C4-C5-N7	-5.42	107.99	110.70
1	AA	1105	A	O3'-P-O5'	5.42	114.29	104.00
1	AA	1227	A	C5'-C4'-C3'	-5.42	107.33	116.00
26	BB	47	C	C2-N3-C4	-5.42	117.19	119.90
26	BB	52	A	N1-C2-N3	-5.42	126.59	129.30
26	BB	248	G	N1-C2-N3	-5.42	120.65	123.90
26	BB	397	U	P-O3'-C3'	5.42	126.20	119.70
26	BB	1093	G	C4-C5-C6	5.42	122.05	118.80
26	BB	1313	U	C6-N1-C1'	-5.42	113.62	121.20
26	BB	1619	G	N3-C4-C5	-5.42	125.89	128.60
26	BB	2147	A	C5'-C4'-O4'	-5.42	102.60	109.10
37	BM	10	VAL	CG1-CB-CG2	-5.42	102.23	110.90
1	AA	757	U	C3'-C2'-C1'	5.42	105.83	101.50
2	AB	26	A	C8-N9-C4	-5.42	103.63	105.80
10	AJ	88	VAL	CA-CB-CG1	5.42	119.02	110.90
25	BA	104	A	O4'-C1'-N9	5.42	112.53	108.20
26	BB	2127	G	C6-N1-C2	-5.42	121.85	125.10
26	BB	2770	G	C8-N9-C4	-5.42	104.23	106.40
1	AA	8	A	O4'-C1'-N9	5.41	112.53	108.20
1	AA	55	A	C5'-C4'-O4'	-5.41	102.60	109.10
1	AA	131	A	C5-C6-N6	-5.41	119.37	123.70
1	AA	220	G	O4'-C4'-C3'	-5.41	98.59	104.00
1	AA	259	G	C5-N7-C8	-5.41	101.59	104.30
1	AA	274	A	O4'-C1'-N9	5.41	112.53	108.20
1	AA	506	G	N1-C2-N2	5.41	121.07	116.20
1	AA	566	G	N9-C4-C5	5.41	107.57	105.40
1	AA	639	G	N3-C4-N9	-5.41	122.75	126.00
1	AA	1371	G	N3-C2-N2	-5.41	116.11	119.90
1	AA	1405	G	C3'-C2'-C1'	-5.41	97.17	101.50
26	BB	442	G	C5'-C4'-O4'	5.41	115.59	109.10
26	BB	631	A	P-O3'-C3'	5.41	126.19	119.70
26	BB	880	G	C8-N9-C4	-5.41	104.23	106.40
26	BB	1175	A	C5-N7-C8	5.41	106.61	103.90
26	BB	1521	G	N1-C2-N3	-5.41	120.65	123.90
26	BB	1792	G	C3'-C2'-C1'	5.41	105.83	101.50
40	BP	60	VAL	CA-CB-CG2	5.41	119.02	110.90
1	AA	269	C	C5'-C4'-O4'	5.41	115.59	109.10
1	AA	422	C	C2-N3-C4	5.41	122.61	119.90
1	AA	1414	U	N3-C2-O2	-5.41	118.41	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1403	A	O4'-C1'-N9	5.41	112.53	108.20
26	BB	1475	G	C5'-C4'-O4'	5.41	115.59	109.10
26	BB	1865	U	C1'-O4'-C4'	-5.41	105.57	109.90
1	AA	617	G	C6-N1-C2	-5.41	121.85	125.10
1	AA	790	A	C5'-C4'-O4'	5.41	115.59	109.10
1	AA	809	G	N3-C4-C5	-5.41	125.89	128.60
1	AA	1041	G	N3-C2-N2	-5.41	116.11	119.90
4	AD	26	C	C6-N1-C2	5.41	122.46	120.30
9	AI	97	THR	CA-CB-CG2	-5.41	104.82	112.40
26	BB	45	G	C1'-O4'-C4'	-5.41	105.57	109.90
26	BB	957	C	N1-C2-N3	5.41	122.99	119.20
26	BB	1704	C	O4'-C4'-C3'	5.41	110.43	106.10
26	BB	1705	A	P-O3'-C3'	5.41	126.19	119.70
26	BB	2170	A	C8-N9-C4	-5.41	103.64	105.80
29	BE	116	LYS	CA-CB-CG	5.41	125.31	113.40
1	AA	66	A	C1'-O4'-C4'	5.41	114.23	109.90
1	AA	112	G	P-O3'-C3'	5.41	126.19	119.70
1	AA	236	A	C6-N1-C2	-5.41	115.36	118.60
1	AA	577	G	C4-C5-C6	5.41	122.05	118.80
1	AA	848	C	C4-C5-C6	5.41	120.10	117.40
1	AA	848	C	C5'-C4'-C3'	-5.41	107.35	116.00
1	AA	890	G	O4'-C1'-N9	5.41	112.53	108.20
1	AA	1378	C	N1-C1'-C2'	-5.41	106.05	112.00
1	AA	1512	U	C1'-O4'-C4'	5.41	114.23	109.90
1	AA	1523	G	C6-C5-N7	-5.41	127.16	130.40
4	AD	38	A	N9-C4-C5	-5.41	103.64	105.80
17	AQ	68	ARG	NE-CZ-NH2	-5.41	117.60	120.30
26	BB	46	G	N3-C4-N9	5.41	129.25	126.00
26	BB	176	A	C6-N1-C2	-5.41	115.36	118.60
26	BB	335	C	C2-N3-C4	5.41	122.61	119.90
26	BB	670	A	O3'-P-O5'	-5.41	93.72	104.00
26	BB	773	U	C4'-C3'-C2'	5.41	108.01	102.60
26	BB	935	C	N3-C2-O2	-5.41	118.11	121.90
26	BB	1670	C	C2-N3-C4	5.41	122.60	119.90
26	BB	1832	C	N3-C2-O2	-5.41	118.11	121.90
26	BB	1998	A	C2-N3-C4	5.41	113.30	110.60
26	BB	2720	U	C5-C4-O4	5.41	129.15	125.90
26	BB	2816	G	C6-N1-C2	-5.41	121.86	125.10
38	BN	21	ARG	NE-CZ-NH2	5.41	123.00	120.30
1	AA	102	G	C5'-C4'-O4'	5.41	115.59	109.10
1	AA	313	A	C5-C6-N6	5.41	128.03	123.70
1	AA	415	A	O4'-C1'-N9	5.41	112.53	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	553	A	C6-N1-C2	-5.41	115.36	118.60
1	AA	634	C	C5-C6-N1	5.41	123.70	121.00
1	AA	1220	G	C3'-C2'-C1'	5.41	105.83	101.50
2	AB	31	U	C5'-C4'-O4'	5.41	115.59	109.10
2	AB	34	C	C6-N1-C1'	-5.41	114.31	120.80
15	AO	51	VAL	CA-CB-CG2	5.41	119.01	110.90
26	BB	417	C	N3-C4-C5	-5.41	119.74	121.90
26	BB	733	G	C5-C6-N1	5.41	114.20	111.50
26	BB	983	A	P-O3'-C3'	5.41	126.19	119.70
26	BB	1391	U	C5-C4-O4	-5.41	122.66	125.90
26	BB	1400	U	C3'-C2'-C1'	5.41	105.83	101.50
26	BB	1756	G	N9-C4-C5	-5.41	103.24	105.40
26	BB	1852	U	C2-N1-C1'	5.41	124.19	117.70
26	BB	2318	G	C8-N9-C4	5.41	108.56	106.40
1	AA	528	C	N3-C2-O2	-5.41	118.12	121.90
1	AA	781	A	C4'-C3'-C2'	-5.41	97.19	102.60
1	AA	1025	U	P-O3'-C3'	5.41	126.19	119.70
1	AA	1183	U	O4'-C1'-C2'	-5.41	100.39	105.80
1	AA	1239	A	C5-C6-N6	-5.41	119.38	123.70
1	AA	1536	C	C4-C5-C6	-5.41	114.70	117.40
26	BB	230	G	N3-C4-N9	5.41	129.24	126.00
26	BB	603	A	C5'-C4'-O4'	5.41	115.59	109.10
26	BB	832	U	C4-C5-C6	5.41	122.94	119.70
26	BB	1512	C	C5-C6-N1	5.41	123.70	121.00
26	BB	2614	A	C8-N9-C4	-5.41	103.64	105.80
1	AA	170	U	C5-C4-O4	-5.40	122.66	125.90
1	AA	998	C	C4-C5-C6	-5.40	114.70	117.40
1	AA	1233	G	C4'-C3'-C2'	-5.40	97.20	102.60
1	AA	1410	A	C6-N1-C2	-5.40	115.36	118.60
25	BA	117	G	C4'-C3'-C2'	-5.40	97.20	102.60
26	BB	448	U	C2-N3-C4	-5.40	123.76	127.00
26	BB	691	C	C3'-C2'-C1'	5.40	105.82	101.50
26	BB	731	C	N3-C4-N4	5.40	121.78	118.00
26	BB	750	A	N1-C2-N3	5.40	132.00	129.30
26	BB	1180	U	C5-C6-N1	5.40	125.40	122.70
26	BB	1590	A	N9-C4-C5	-5.40	103.64	105.80
26	BB	1885	A	C8-N9-C4	-5.40	103.64	105.80
26	BB	2140	G	N7-C8-N9	5.40	115.80	113.10
50	BZ	29	LEU	CB-CG-CD1	5.40	120.19	111.00
1	AA	161	A	O4'-C4'-C3'	5.40	110.42	106.10
1	AA	330	C	N1-C2-O2	5.40	122.14	118.90
1	AA	376	G	C4'-C3'-C2'	-5.40	97.20	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	748	G	C5-C6-N1	5.40	114.20	111.50
1	AA	1217	C	C6-N1-C2	-5.40	118.14	120.30
1	AA	1226	C	C5-C6-N1	5.40	123.70	121.00
18	AR	56	LEU	CB-CG-CD2	-5.40	101.82	111.00
25	BA	9	G	C1'-O4'-C4'	-5.40	105.58	109.90
26	BB	19	A	C4-C5-C6	-5.40	114.30	117.00
26	BB	1022	G	C4-C5-N7	5.40	112.96	110.80
26	BB	1063	G	C6-C5-N7	-5.40	127.16	130.40
26	BB	1168	G	N9-C4-C5	5.40	107.56	105.40
26	BB	2288	A	C4-C5-C6	-5.40	114.30	117.00
26	BB	2321	U	C5-C4-O4	5.40	129.14	125.90
26	BB	2395	C	C5-C6-N1	5.40	123.70	121.00
26	BB	2497	A	O5'-C5'-C4'	-5.40	101.44	111.70
26	BB	2781	A	C4-C5-C6	-5.40	114.30	117.00
1	AA	123	U	C4-C5-C6	5.40	122.94	119.70
1	AA	179	A	N1-C2-N3	-5.40	126.60	129.30
1	AA	445	G	C6-C5-N7	-5.40	127.16	130.40
1	AA	785	G	N1-C2-N2	5.40	121.06	116.20
1	AA	1138	G	C8-N9-C4	-5.40	104.24	106.40
10	AJ	74	VAL	CA-CB-CG1	5.40	119.00	110.90
25	BA	109	A	N3-C4-C5	-5.40	123.02	126.80
26	BB	294	A	C6-N1-C2	-5.40	115.36	118.60
26	BB	504	A	C5-C6-N6	-5.40	119.38	123.70
26	BB	774	G	C8-N9-C4	-5.40	104.24	106.40
26	BB	1033	U	C2-N3-C4	-5.40	123.76	127.00
26	BB	1175	A	C5-C6-N1	-5.40	115.00	117.70
26	BB	1300	G	C5'-C4'-O4'	5.40	115.58	109.10
26	BB	1549	A	N1-C6-N6	5.40	121.84	118.60
26	BB	2173	A	C5-N7-C8	5.40	106.60	103.90
26	BB	2369	A	C5-N7-C8	5.40	106.60	103.90
26	BB	2386	A	O4'-C1'-N9	5.40	112.52	108.20
26	BB	2674	G	O4'-C1'-C2'	5.40	112.46	107.60
1	AA	789	U	C4-C5-C6	5.40	122.94	119.70
7	AG	196	GLU	O-C-N	-5.40	114.06	122.70
25	BA	41	G	O4'-C4'-C3'	5.40	110.42	106.10
25	BA	66	A	C5'-C4'-O4'	5.40	115.58	109.10
26	BB	561	G	C4'-C3'-C2'	-5.40	97.20	102.60
26	BB	1339	G	N9-C1'-C2'	-5.40	106.06	112.00
26	BB	1617	C	O4'-C1'-N1	5.40	112.52	108.20
1	AA	61	G	C3'-C2'-C1'	-5.40	97.18	101.50
1	AA	288	A	C5'-C4'-O4'	5.40	115.58	109.10
1	AA	510	A	C4-C5-C6	-5.40	114.30	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	754	C	C5'-C4'-C3'	-5.40	107.37	116.00
1	AA	930	C	C5-C6-N1	-5.40	118.30	121.00
1	AA	983	A	N9-C4-C5	5.40	107.96	105.80
1	AA	1255	G	N9-C1'-C2'	-5.40	106.06	112.00
1	AA	1383	C	C5-C6-N1	5.40	123.70	121.00
26	BB	522	A	C5'-C4'-O4'	5.40	115.58	109.10
26	BB	1511	G	C8-N9-C1'	5.40	134.02	127.00
26	BB	1646	C	P-O3'-C3'	5.40	126.18	119.70
26	BB	2151	U	C3'-C2'-C1'	5.40	105.82	101.50
26	BB	2294	G	C2-N3-C4	5.40	114.60	111.90
26	BB	2351	G	C5'-C4'-O4'	5.40	115.58	109.10
26	BB	2646	C	C5'-C4'-O4'	5.40	115.58	109.10
26	BB	2669	G	N3-C4-N9	5.40	129.24	126.00
26	BB	2761	A	C3'-C2'-C1'	5.40	105.82	101.50
48	BX	90	ASP	CB-CG-OD1	-5.40	113.44	118.30
1	AA	347	G	P-O5'-C5'	5.40	129.53	120.90
1	AA	694	A	P-O3'-C3'	5.40	126.17	119.70
1	AA	1208	C	C3'-C2'-C1'	-5.40	97.18	101.50
1	AA	1403	C	N3-C4-C5	-5.40	119.74	121.90
1	AA	1429	A	O4'-C1'-N9	5.40	112.52	108.20
4	AD	37	U	N3-C4-O4	5.40	123.18	119.40
25	BA	58	A	C5-N7-C8	-5.40	101.20	103.90
26	BB	42	A	N1-C2-N3	-5.40	126.60	129.30
26	BB	1081	U	N1-C2-N3	5.40	118.14	114.90
26	BB	1104	C	C1'-O4'-C4'	-5.40	105.58	109.90
26	BB	1576	U	C3'-C2'-C1'	5.40	105.82	101.50
26	BB	1689	A	C4-C5-N7	5.40	113.40	110.70
26	BB	1743	G	P-O3'-C3'	5.40	126.18	119.70
26	BB	2003	A	C5-N7-C8	-5.40	101.20	103.90
26	BB	2052	A	C4-C5-C6	-5.40	114.30	117.00
1	AA	5	U	C6-N1-C2	5.39	124.24	121.00
1	AA	1256	A	C1'-O4'-C4'	5.39	114.22	109.90
2	AB	34	C	C6-N1-C2	-5.39	118.14	120.30
7	AG	203	TYR	CB-CG-CD1	-5.39	117.76	121.00
26	BB	298	G	C4-C5-N7	5.39	112.96	110.80
26	BB	413	C	N3-C4-N4	5.39	121.78	118.00
26	BB	500	G	N3-C2-N2	-5.39	116.12	119.90
26	BB	713	G	C8-N9-C1'	5.39	134.01	127.00
26	BB	762	U	N1-C2-N3	5.39	118.14	114.90
26	BB	1052	C	C4'-C3'-O3'	5.39	123.79	113.00
26	BB	1655	A	C5'-C4'-C3'	-5.39	107.37	116.00
26	BB	1710	G	C3'-C2'-C1'	-5.39	97.19	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1730	C	N3-C2-O2	-5.39	118.12	121.90
26	BB	1753	G	C8-N9-C1'	5.39	134.01	127.00
26	BB	2553	G	N9-C4-C5	5.39	107.56	105.40
26	BB	2759	G	N3-C2-N2	-5.39	116.12	119.90
1	AA	64	G	N9-C4-C5	5.39	107.56	105.40
1	AA	65	A	N3-C4-N9	5.39	131.71	127.40
1	AA	241	G	N1-C2-N3	-5.39	120.67	123.90
1	AA	339	C	C4'-C3'-C2'	-5.39	97.21	102.60
1	AA	441	A	C8-N9-C4	-5.39	103.64	105.80
1	AA	1274	A	C5-C6-N1	-5.39	115.00	117.70
1	AA	1372	U	N3-C2-O2	-5.39	118.43	122.20
4	AD	4	G	C4-C5-C6	5.39	122.04	118.80
25	BA	55	U	C3'-C2'-C1'	5.39	105.81	101.50
25	BA	63	C	N3-C2-O2	5.39	125.67	121.90
26	BB	20	C	C4-C5-C6	5.39	120.10	117.40
26	BB	137	U	C4'-C3'-C2'	-5.39	97.21	102.60
26	BB	180	G	N1-C2-N3	5.39	127.14	123.90
26	BB	186	G	N7-C8-N9	5.39	115.80	113.10
26	BB	266	G	N1-C2-N3	-5.39	120.66	123.90
26	BB	272	A	C8-N9-C4	-5.39	103.64	105.80
26	BB	635	C	C5'-C4'-O4'	5.39	115.57	109.10
26	BB	1033	U	N3-C2-O2	-5.39	118.42	122.20
26	BB	1063	G	N1-C2-N2	5.39	121.05	116.20
26	BB	1169	A	N7-C8-N9	-5.39	111.10	113.80
26	BB	1787	A	C6-C5-N7	-5.39	128.53	132.30
26	BB	1928	A	N9-C1'-C2'	-5.39	106.07	112.00
26	BB	2179	C	P-O3'-C3'	-5.39	113.23	119.70
26	BB	2372	U	N1-C1'-C2'	-5.39	106.07	112.00
1	AA	177	G	C5-N7-C8	-5.39	101.61	104.30
1	AA	430	A	N1-C6-N6	5.39	121.83	118.60
1	AA	676	A	O4'-C1'-N9	5.39	112.51	108.20
1	AA	883	C	N3-C4-N4	-5.39	114.23	118.00
1	AA	899	C	P-O3'-C3'	5.39	126.17	119.70
1	AA	1254	A	C2-N3-C4	5.39	113.30	110.60
1	AA	1260	G	N3-C2-N2	5.39	123.67	119.90
26	BB	13	A	N3-C4-C5	-5.39	123.03	126.80
26	BB	135	U	C2-N1-C1'	-5.39	111.23	117.70
26	BB	1665	A	C4-C5-N7	5.39	113.39	110.70
1	AA	228	A	C6-N1-C2	5.39	121.83	118.60
1	AA	389	A	C3'-C2'-C1'	-5.39	97.19	101.50
1	AA	780	A	C2-N3-C4	5.39	113.29	110.60
1	AA	922	G	P-O3'-C3'	5.39	126.17	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1051	C	N1-C2-O2	5.39	122.13	118.90
1	AA	1227	A	C4'-C3'-C2'	-5.39	97.21	102.60
1	AA	1324	A	C4-C5-N7	5.39	113.39	110.70
14	AN	55	ARG	CB-CA-C	5.39	121.18	110.40
24	AX	70	TYR	CD1-CG-CD2	5.39	123.83	117.90
26	BB	540	C	C4-C5-C6	-5.39	114.70	117.40
26	BB	552	U	C5'-C4'-O4'	5.39	115.57	109.10
26	BB	559	G	C8-N9-C1'	5.39	134.01	127.00
26	BB	603	A	C2-N3-C4	5.39	113.29	110.60
26	BB	1160	G	C2-N3-C4	5.39	114.59	111.90
26	BB	1208	C	C2-N3-C4	-5.39	117.20	119.90
26	BB	1679	A	O4'-C1'-C2'	5.39	112.45	107.60
26	BB	1697	G	N3-C2-N2	5.39	123.67	119.90
26	BB	1762	A	N7-C8-N9	-5.39	111.11	113.80
26	BB	1974	C	O4'-C1'-N1	5.39	112.51	108.20
26	BB	2618	G	N3-C2-N2	-5.39	116.13	119.90
26	BB	2864	G	C6-C5-N7	-5.39	127.17	130.40
26	BB	2874	C	C5-C4-N4	5.39	123.97	120.20
48	BX	41	GLU	C-N-CA	5.39	135.18	121.70
56	B5	18	PHE	CB-CG-CD2	-5.39	117.03	120.80
1	AA	27	G	C4-C5-N7	-5.39	108.64	110.80
1	AA	168	G	C5'-C4'-C3'	-5.39	107.38	116.00
1	AA	285	C	N1-C2-N3	-5.39	115.43	119.20
1	AA	807	A	N3-C4-N9	-5.39	123.09	127.40
1	AA	1228	C	N3-C4-C5	-5.39	119.75	121.90
26	BB	325	G	O5'-C5'-C4'	-5.39	101.46	111.70
26	BB	649	G	C6-N1-C2	-5.39	121.87	125.10
26	BB	1543	G	C5'-C4'-O4'	5.39	115.57	109.10
26	BB	1719	G	C2-N3-C4	5.39	114.59	111.90
26	BB	2248	C	C5-C4-N4	-5.39	116.43	120.20
42	BR	54	LEU	CB-CA-C	5.39	120.44	110.20
1	AA	21	G	N3-C2-N2	5.39	123.67	119.90
1	AA	244	U	C3'-C2'-C1'	5.39	105.81	101.50
1	AA	291	U	N1-C2-N3	5.39	118.13	114.90
1	AA	619	U	C5-C6-N1	-5.39	120.01	122.70
1	AA	1156	G	N1-C2-N3	5.39	127.13	123.90
1	AA	1158	C	C3'-C2'-C1'	5.39	105.81	101.50
1	AA	1343	G	C2-N3-C4	5.39	114.59	111.90
1	AA	1373	G	C5-N7-C8	-5.39	101.61	104.30
25	BA	18	G	C5-C6-N1	5.39	114.19	111.50
25	BA	27	C	O4'-C1'-N1	5.39	112.51	108.20
26	BB	63	A	C6-N1-C2	5.39	121.83	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	475	C	N1-C2-N3	-5.39	115.43	119.20
26	BB	684	G	C4'-C3'-C2'	-5.39	97.21	102.60
26	BB	718	A	C5-N7-C8	-5.39	101.21	103.90
26	BB	885	C	C4'-C3'-O3'	5.39	123.77	113.00
26	BB	1262	A	P-O3'-C3'	5.39	126.16	119.70
26	BB	1831	G	C8-N9-C4	-5.39	104.25	106.40
26	BB	1848	A	C1'-O4'-C4'	-5.39	105.59	109.90
26	BB	2334	U	C6-N1-C2	-5.39	117.77	121.00
26	BB	2786	U	C5-C6-N1	-5.39	120.01	122.70
26	BB	2817	U	C5'-C4'-O4'	5.39	115.56	109.10
1	AA	184	G	P-O3'-C3'	5.38	126.16	119.70
1	AA	429	U	O4'-C4'-C3'	5.38	110.41	106.10
1	AA	539	A	O5'-P-OP2	-5.38	100.85	105.70
1	AA	688	G	C3'-C2'-C1'	-5.38	97.19	101.50
1	AA	874	G	P-O3'-C3'	5.38	126.16	119.70
1	AA	1041	G	N1-C6-O6	5.38	123.13	119.90
1	AA	1491	G	C5-C6-N1	5.38	114.19	111.50
2	AB	5	G	C2-N3-C4	5.38	114.59	111.90
26	BB	94	A	N7-C8-N9	-5.38	111.11	113.80
26	BB	128	C	O4'-C4'-C3'	5.38	110.41	106.10
26	BB	556	A	C4-C5-N7	-5.38	108.01	110.70
26	BB	637	A	C6-C5-N7	-5.38	128.53	132.30
26	BB	1046	A	O4'-C1'-N9	5.38	112.51	108.20
26	BB	1083	U	C5-C4-O4	-5.38	122.67	125.90
26	BB	1535	A	C8-N9-C4	5.38	107.95	105.80
26	BB	1704	C	C4-C5-C6	-5.38	114.71	117.40
26	BB	1737	G	P-O3'-C3'	5.38	126.16	119.70
26	BB	2006	C	O4'-C1'-N1	5.38	112.51	108.20
26	BB	2050	C	N3-C4-C5	5.38	124.05	121.90
26	BB	2291	U	C4-C5-C6	5.38	122.93	119.70
26	BB	2343	U	O4'-C1'-N1	5.38	112.51	108.20
26	BB	2441	U	C4-C5-C6	5.38	122.93	119.70
26	BB	2638	G	N7-C8-N9	5.38	115.79	113.10
26	BB	2657	A	C3'-C2'-C1'	-5.38	97.19	101.50
26	BB	2665	A	C5-C6-N1	-5.38	115.01	117.70
1	AA	339	C	N1-C2-O2	5.38	122.13	118.90
1	AA	683	G	N9-C1'-C2'	-5.38	106.08	112.00
1	AA	1336	C	P-O3'-C3'	5.38	126.16	119.70
25	BA	77	U	C6-N1-C2	-5.38	117.77	121.00
26	BB	183	C	O4'-C1'-C2'	5.38	112.44	107.60
26	BB	2248	C	N3-C4-N4	5.38	121.77	118.00
26	BB	2795	C	N1-C2-N3	-5.38	115.43	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	140	U	C4-C5-C6	5.38	122.93	119.70
1	AA	637	C	N3-C4-N4	5.38	121.77	118.00
1	AA	708	C	C5-C6-N1	-5.38	118.31	121.00
1	AA	1394	A	C5-C6-N1	-5.38	115.01	117.70
26	BB	239	C	C6-N1-C2	-5.38	118.15	120.30
26	BB	279	A	N3-C4-N9	5.38	131.71	127.40
26	BB	454	A	N3-C4-N9	5.38	131.71	127.40
26	BB	889	C	N3-C4-N4	5.38	121.77	118.00
26	BB	1045	C	N3-C2-O2	-5.38	118.13	121.90
26	BB	1096	A	O4'-C1'-N9	5.38	112.50	108.20
26	BB	1271	G	P-O5'-C5'	5.38	129.51	120.90
26	BB	1446	C	C2-N3-C4	5.38	122.59	119.90
26	BB	1484	U	C6-N1-C2	-5.38	117.77	121.00
26	BB	2451	A	N9-C4-C5	-5.38	103.65	105.80
26	BB	2535	G	C5-N7-C8	-5.38	101.61	104.30
29	BE	103	ASP	CB-CG-OD1	-5.38	113.46	118.30
30	BF	84	THR	CA-CB-CG2	5.38	119.93	112.40
1	AA	925	G	N3-C4-C5	-5.38	125.91	128.60
1	AA	1030	U	C4'-C3'-C2'	5.38	107.98	102.60
1	AA	1187	G	C4-C5-N7	-5.38	108.65	110.80
1	AA	1379	G	C6-C5-N7	5.38	133.63	130.40
4	AD	5	G	C4-C5-N7	-5.38	108.65	110.80
25	BA	55	U	N3-C4-O4	-5.38	115.63	119.40
26	BB	330	A	C4-C5-C6	-5.38	114.31	117.00
26	BB	1059	G	C1'-O4'-C4'	-5.38	105.60	109.90
26	BB	2160	C	N3-C4-N4	5.38	121.77	118.00
26	BB	2275	C	N1-C2-O2	-5.38	115.67	118.90
1	AA	1211	U	C5-C4-O4	5.38	129.13	125.90
1	AA	1423	G	N1-C2-N2	5.38	121.04	116.20
2	AB	61	C	N3-C4-N4	5.38	121.77	118.00
15	AO	41	PRO	CA-N-CD	-5.38	103.97	111.50
26	BB	636	G	N3-C4-N9	5.38	129.23	126.00
26	BB	686	U	N1-C2-N3	5.38	118.13	114.90
26	BB	983	A	C5'-C4'-O4'	5.38	115.56	109.10
26	BB	1031	G	C2-N3-C4	5.38	114.59	111.90
26	BB	1355	G	C6-N1-C2	-5.38	121.87	125.10
26	BB	1630	A	N3-C4-N9	-5.38	123.10	127.40
26	BB	1765	U	C3'-C2'-C1'	-5.38	97.20	101.50
26	BB	1841	U	N1-C1'-C2'	-5.38	106.08	112.00
26	BB	1936	A	O4'-C4'-C3'	-5.38	98.62	104.00
26	BB	2544	G	C4-C5-C6	5.38	122.03	118.80
26	BB	2791	G	C8-N9-C4	-5.38	104.25	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2841	C	O4'-C4'-C3'	5.38	110.40	106.10
26	BB	2897	U	C4-C5-C6	-5.38	116.47	119.70
29	BE	128	ARG	NE-CZ-NH1	5.38	122.99	120.30
56	B5	28	ARG	CB-CA-C	5.38	121.16	110.40
1	AA	298	A	N7-C8-N9	5.38	116.49	113.80
1	AA	787	A	C8-N9-C4	-5.38	103.65	105.80
11	AK	83	ARG	NE-CZ-NH1	5.38	122.99	120.30
25	BA	74	U	C6-N1-C2	5.38	124.23	121.00
26	BB	19	A	N1-C6-N6	-5.38	115.37	118.60
26	BB	24	G	C5'-C4'-O4'	5.38	115.55	109.10
26	BB	236	C	C6-N1-C2	5.38	122.45	120.30
26	BB	265	A	C6-N1-C2	5.38	121.83	118.60
26	BB	922	C	N3-C2-O2	5.38	125.66	121.90
26	BB	1077	A	N9-C4-C5	5.38	107.95	105.80
26	BB	1514	G	C2'-C3'-O3'	5.38	122.30	113.70
26	BB	1557	C	C4'-C3'-C2'	-5.38	97.22	102.60
26	BB	1782	U	C4-C5-C6	5.38	122.93	119.70
26	BB	1853	A	C5-C6-N1	-5.38	115.01	117.70
26	BB	1954	G	C4-C5-N7	5.38	112.95	110.80
26	BB	2510	C	C4-C5-C6	-5.38	114.71	117.40
26	BB	2566	A	C1'-O4'-C4'	-5.38	105.60	109.90
26	BB	2595	G	N3-C2-N2	5.38	123.66	119.90
42	BR	71	ARG	NE-CZ-NH2	5.38	122.99	120.30
1	AA	203	G	C5'-C4'-O4'	5.38	115.55	109.10
1	AA	256	U	N3-C2-O2	-5.38	118.44	122.20
1	AA	1133	G	N1-C6-O6	-5.38	116.67	119.90
1	AA	1184	G	N3-C4-C5	-5.38	125.91	128.60
3	AC	32	U	O4'-C4'-C3'	-5.38	98.62	104.00
6	AF	183	TYR	CB-CG-CD2	5.38	124.22	121.00
21	AU	26	ALA	N-CA-CB	-5.38	102.58	110.10
26	BB	338	G	N7-C8-N9	-5.38	110.41	113.10
26	BB	578	G	O3'-P-O5'	-5.38	93.79	104.00
26	BB	774	G	N9-C4-C5	5.38	107.55	105.40
26	BB	983	A	C1'-O4'-C4'	5.38	114.20	109.90
26	BB	1683	U	C3'-C2'-C1'	5.38	105.80	101.50
1	AA	36	C	C2-N3-C4	5.37	122.59	119.90
1	AA	87	C	C6-N1-C2	5.37	122.45	120.30
1	AA	146	G	N1-C6-O6	5.37	123.12	119.90
1	AA	335	C	P-O3'-C3'	5.37	126.15	119.70
1	AA	709	U	N3-C4-C5	5.37	117.82	114.60
1	AA	1091	U	C5'-C4'-O4'	5.37	115.55	109.10
1	AA	1197	A	O4'-C1'-N9	5.37	112.50	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1323	G	C4'-C3'-C2'	-5.37	97.23	102.60
1	AA	1464	U	C6-N1-C2	-5.37	117.78	121.00
26	BB	27	G	N3-C4-N9	-5.37	122.78	126.00
26	BB	664	G	C5'-C4'-O4'	5.37	115.55	109.10
26	BB	1094	U	C2-N1-C1'	5.37	124.15	117.70
26	BB	1786	A	C2-N3-C4	5.37	113.29	110.60
26	BB	2052	A	P-O3'-C3'	5.37	126.15	119.70
26	BB	2345	G	P-O3'-C3'	5.37	126.15	119.70
26	BB	2696	U	C5'-C4'-O4'	5.37	115.55	109.10
26	BB	2792	A	N1-C6-N6	5.37	121.82	118.60
31	BG	101	ARG	NE-CZ-NH1	5.37	122.99	120.30
53	B2	57	VAL	CA-CB-CG1	5.37	118.96	110.90
1	AA	639	G	N9-C1'-C2'	-5.37	106.09	112.00
1	AA	981	U	N1-C2-O2	-5.37	119.04	122.80
1	AA	1005	A	C2-N3-C4	5.37	113.29	110.60
1	AA	1379	G	C1'-O4'-C4'	-5.37	105.60	109.90
1	AA	1523	G	N1-C2-N3	-5.37	120.68	123.90
1	AA	1529	G	C2-N3-C4	5.37	114.59	111.90
26	BB	539	G	N1-C6-O6	-5.37	116.68	119.90
26	BB	1093	G	C6-N1-C2	-5.37	121.88	125.10
26	BB	1381	G	C2-N3-C4	5.37	114.59	111.90
26	BB	1676	A	C8-N9-C4	-5.37	103.65	105.80
26	BB	1832	C	C1'-O4'-C4'	-5.37	105.60	109.90
26	BB	1978	A	C5-C6-N1	5.37	120.39	117.70
26	BB	2017	U	C3'-C2'-C1'	5.37	105.80	101.50
26	BB	2171	A	C4'-C3'-C2'	-5.37	97.23	102.60
26	BB	2781	A	C8-N9-C4	-5.37	103.65	105.80
26	BB	2785	C	N1-C1'-C2'	-5.37	106.09	112.00
1	AA	200	G	C1'-O4'-C4'	5.37	114.20	109.90
1	AA	211	G	N1-C6-O6	5.37	123.12	119.90
1	AA	422	C	C5-C6-N1	5.37	123.69	121.00
1	AA	824	G	C8-N9-C4	-5.37	104.25	106.40
1	AA	981	U	P-O3'-C3'	5.37	126.14	119.70
1	AA	1101	A	O5'-C5'-C4'	5.37	121.90	111.70
1	AA	1466	C	O4'-C1'-N1	5.37	112.50	108.20
2	AB	10	G	N3-C4-C5	-5.37	125.92	128.60
2	AB	42	G	C5-C6-N1	5.37	114.19	111.50
13	AM	102	LEU	CB-CG-CD1	5.37	120.13	111.00
26	BB	908	C	N3-C4-N4	5.37	121.76	118.00
26	BB	1820	U	N1-C1'-C2'	-5.37	106.09	112.00
26	BB	1854	A	C6-C5-N7	5.37	136.06	132.30
26	BB	2896	C	C3'-C2'-C1'	5.37	105.80	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	BH	136	ASP	CB-CG-OD1	5.37	123.13	118.30
1	AA	52	C	C5'-C4'-O4'	5.37	115.54	109.10
1	AA	480	U	N1-C2-O2	-5.37	119.04	122.80
1	AA	633	G	O4'-C1'-N9	5.37	112.50	108.20
1	AA	1445	U	C5-C4-O4	-5.37	122.68	125.90
25	BA	43	C	C6-N1-C2	5.37	122.45	120.30
26	BB	339	U	O4'-C1'-C2'	5.37	112.43	107.60
26	BB	385	C	C2-N3-C4	5.37	122.58	119.90
26	BB	574	A	C1'-O4'-C4'	-5.37	105.61	109.90
26	BB	652	U	C2-N3-C4	-5.37	123.78	127.00
26	BB	1268	A	C4'-C3'-C2'	-5.37	97.23	102.60
26	BB	1325	U	N1-C1'-C2'	5.37	120.98	114.00
26	BB	1429	G	C4-C5-N7	-5.37	108.65	110.80
26	BB	1744	A	C4'-C3'-C2'	-5.37	97.23	102.60
26	BB	2017	U	C4'-C3'-C2'	-5.37	97.23	102.60
26	BB	2082	A	N1-C2-N3	-5.37	126.62	129.30
26	BB	2209	G	C5-N7-C8	-5.37	101.62	104.30
26	BB	2870	C	C6-N1-C1'	5.37	127.24	120.80
30	BF	21	ARG	NE-CZ-NH1	-5.37	117.62	120.30
37	BM	61	VAL	CA-CB-CG1	-5.37	102.85	110.90
1	AA	269	C	C2-N3-C4	-5.37	117.22	119.90
1	AA	1056	U	N3-C4-O4	5.37	123.16	119.40
1	AA	1093	A	C5'-C4'-O4'	5.37	115.54	109.10
26	BB	301	G	C4'-C3'-C2'	-5.37	97.23	102.60
26	BB	424	G	O4'-C1'-C2'	5.37	112.43	107.60
26	BB	556	A	C2-N3-C4	5.37	113.28	110.60
26	BB	1767	G	N3-C4-C5	-5.37	125.92	128.60
26	BB	1990	C	O4'-C1'-C2'	-5.37	100.43	105.80
26	BB	2296	U	N1-C2-N3	5.37	118.12	114.90
26	BB	2319	G	N9-C4-C5	5.37	107.55	105.40
31	BG	5	ASP	CB-CG-OD2	5.37	123.13	118.30
1	AA	452	A	C4-C5-N7	-5.37	108.02	110.70
1	AA	509	A	N3-C4-C5	-5.37	123.04	126.80
1	AA	750	C	C5-C6-N1	5.37	123.68	121.00
1	AA	871	U	C6-N1-C2	-5.37	117.78	121.00
1	AA	1125	U	C6-N1-C2	-5.37	117.78	121.00
1	AA	1341	U	C5'-C4'-C3'	-5.37	107.42	116.00
26	BB	53	A	C4'-C3'-C2'	-5.37	97.23	102.60
26	BB	183	C	C2-N3-C4	5.37	122.58	119.90
26	BB	440	C	N3-C4-C5	-5.37	119.75	121.90
26	BB	453	A	C6-N1-C2	5.37	121.82	118.60
26	BB	539	G	N9-C4-C5	5.37	107.55	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	651	G	N1-C2-N3	-5.37	120.68	123.90
26	BB	804	A	N9-C4-C5	5.37	107.95	105.80
26	BB	1115	G	C4-C5-N7	-5.37	108.65	110.80
26	BB	1404	C	C5-C4-N4	-5.37	116.44	120.20
26	BB	1505	A	C5-C6-N6	-5.37	119.41	123.70
26	BB	2200	C	C1'-O4'-C4'	5.37	114.19	109.90
26	BB	2537	U	C5-C4-O4	-5.37	122.68	125.90
26	BB	2566	A	N1-C6-N6	5.37	121.82	118.60
26	BB	2641	G	N3-C4-C5	-5.37	125.92	128.60
26	BB	2893	A	N1-C2-N3	5.37	131.98	129.30
1	AA	368	U	N3-C2-O2	-5.36	118.45	122.20
1	AA	622	A	C8-N9-C4	-5.36	103.66	105.80
1	AA	689	C	N3-C4-C5	5.36	124.05	121.90
1	AA	1069	C	O4'-C1'-N1	5.36	112.49	108.20
1	AA	1083	U	O4'-C1'-N1	5.36	112.49	108.20
1	AA	1212	U	N1-C2-O2	-5.36	119.05	122.80
1	AA	1439	G	N7-C8-N9	5.36	115.78	113.10
9	AI	112	ARG	NH1-CZ-NH2	5.36	125.30	119.40
26	BB	356	G	C4-C5-C6	-5.36	115.58	118.80
26	BB	1307	A	C4-C5-N7	5.36	113.38	110.70
26	BB	1679	A	C6-N1-C2	-5.36	115.38	118.60
26	BB	2009	A	C1'-O4'-C4'	5.36	114.19	109.90
26	BB	2352	A	C6-N1-C2	-5.36	115.38	118.60
26	BB	2640	G	C1'-O4'-C4'	-5.36	105.61	109.90
26	BB	2709	G	N9-C4-C5	-5.36	103.25	105.40
26	BB	2713	U	N3-C4-C5	-5.36	111.38	114.60
1	AA	553	A	N1-C2-N3	5.36	131.98	129.30
1	AA	1378	C	O4'-C1'-N1	5.36	112.49	108.20
25	BA	109	A	N7-C8-N9	-5.36	111.12	113.80
26	BB	331	C	C5'-C4'-O4'	5.36	115.53	109.10
26	BB	708	G	C4-C5-C6	5.36	122.02	118.80
26	BB	730	A	C3'-C2'-C1'	-5.36	97.21	101.50
26	BB	2367	G	N1-C2-N3	-5.36	120.68	123.90
26	BB	2584	U	C1'-O4'-C4'	5.36	114.19	109.90
26	BB	2604	U	N1-C2-O2	-5.36	119.05	122.80
36	BL	96	ARG	NH1-CZ-NH2	5.36	125.30	119.40
1	AA	14	U	C3'-C2'-C1'	-5.36	97.21	101.50
1	AA	1080	A	O4'-C1'-C2'	5.36	112.42	107.60
1	AA	1246	A	C4'-C3'-C2'	-5.36	97.24	102.60
1	AA	1278	G	P-O5'-C5'	5.36	129.47	120.90
4	AD	76	C	C4'-C3'-C2'	-5.36	97.24	102.60
25	BA	84	G	C4'-C3'-C2'	-5.36	97.24	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	100	G	N9-C4-C5	5.36	107.54	105.40
26	BB	213	A	C2-N3-C4	5.36	113.28	110.60
26	BB	437	U	C4'-C3'-C2'	-5.36	97.24	102.60
26	BB	594	U	N3-C4-O4	5.36	123.15	119.40
26	BB	1032	A	C8-N9-C4	5.36	107.94	105.80
26	BB	1213	A	C4'-C3'-C2'	-5.36	97.24	102.60
26	BB	1500	G	N9-C4-C5	5.36	107.54	105.40
26	BB	1756	G	N3-C4-N9	5.36	129.22	126.00
26	BB	1811	G	N1-C2-N2	5.36	121.03	116.20
26	BB	2005	A	C5'-C4'-C3'	-5.36	107.42	116.00
26	BB	2225	A	C6-N1-C2	-5.36	115.38	118.60
26	BB	2255	G	C5'-C4'-O4'	5.36	115.53	109.10
26	BB	2337	G	C5'-C4'-O4'	5.36	115.53	109.10
26	BB	2549	G	N3-C2-N2	-5.36	116.15	119.90
33	BI	86	ASP	CB-CG-OD1	-5.36	113.48	118.30
55	B4	50	GLU	CB-CA-C	5.36	121.12	110.40
1	AA	219	U	N3-C4-C5	-5.36	111.39	114.60
1	AA	283	U	N3-C4-O4	5.36	123.15	119.40
26	BB	5	A	C5-C6-N6	-5.36	119.41	123.70
26	BB	61	C	N3-C4-C5	-5.36	119.76	121.90
26	BB	560	C	C4-C5-C6	-5.36	114.72	117.40
26	BB	1442	U	N1-C2-N3	5.36	118.12	114.90
26	BB	1688	U	C6-N1-C2	5.36	124.22	121.00
26	BB	2521	C	C5'-C4'-O4'	5.36	115.53	109.10
1	AA	400	C	O4'-C1'-N1	5.36	112.49	108.20
1	AA	531	U	C2-N1-C1'	5.36	124.13	117.70
1	AA	1413	A	O4'-C4'-C3'	5.36	110.39	106.10
1	AA	1414	U	C5-C6-N1	5.36	125.38	122.70
3	AC	56	G	N1-C6-O6	5.36	123.11	119.90
4	AD	37	U	N3-C4-C5	5.36	117.81	114.60
25	BA	107	G	N1-C2-N3	5.36	127.11	123.90
26	BB	67	U	O4'-C1'-N1	5.36	112.49	108.20
26	BB	77	G	N1-C2-N3	-5.36	120.69	123.90
26	BB	292	U	N3-C4-O4	-5.36	115.65	119.40
26	BB	295	G	O4'-C1'-N9	5.36	112.48	108.20
26	BB	1048	A	N3-C4-C5	-5.36	123.05	126.80
26	BB	1140	C	C2-N3-C4	5.36	122.58	119.90
26	BB	1185	G	N3-C4-C5	-5.36	125.92	128.60
26	BB	1596	A	C5'-C4'-O4'	-5.36	102.67	109.10
26	BB	1730	C	C5'-C4'-O4'	5.36	115.53	109.10
26	BB	2029	G	O4'-C1'-C2'	-5.36	100.44	105.80
26	BB	2082	A	N9-C4-C5	-5.36	103.66	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2132	U	O4'-C1'-N1	5.36	112.49	108.20
26	BB	2150	C	C5'-C4'-C3'	5.36	124.57	116.00
26	BB	2231	U	C2-N3-C4	-5.36	123.79	127.00
26	BB	2561	U	N1-C2-N3	5.36	118.11	114.90
43	BS	23	TYR	CG-CD2-CE2	-5.36	117.01	121.30
1	AA	741	G	C2-N3-C4	5.36	114.58	111.90
6	AF	200	TRP	CA-CB-CG	5.36	123.87	113.70
17	AQ	45	LEU	C-N-CA	5.36	135.09	121.70
26	BB	44	A	C4'-C3'-C2'	5.36	107.95	102.60
26	BB	249	C	C3'-C2'-C1'	5.36	105.78	101.50
26	BB	513	A	C5'-C4'-O4'	5.36	115.53	109.10
26	BB	556	A	N3-C4-C5	-5.36	123.05	126.80
26	BB	752	A	C1'-O4'-C4'	-5.36	105.62	109.90
26	BB	937	C	C4'-C3'-C2'	-5.36	97.24	102.60
26	BB	2408	U	O4'-C1'-C2'	-5.36	100.44	105.80
26	BB	2872	A	C4'-C3'-C2'	-5.36	97.25	102.60
56	B5	24	THR	CA-CB-CG2	5.36	119.90	112.40
1	AA	1120	C	N3-C4-C5	-5.35	119.76	121.90
1	AA	1193	G	O4'-C1'-N9	5.35	112.48	108.20
1	AA	1455	G	N3-C4-N9	5.35	129.21	126.00
3	AC	40	G	C8-N9-C4	-5.35	104.26	106.40
26	BB	1281	G	C5'-C4'-O4'	-5.35	102.67	109.10
26	BB	2110	G	C5-C6-O6	-5.35	125.39	128.60
26	BB	2608	G	N1-C6-O6	-5.35	116.69	119.90
1	AA	388	G	O4'-C1'-N9	5.35	112.48	108.20
1	AA	572	A	C5-C6-N6	-5.35	119.42	123.70
1	AA	705	G	C5-N7-C8	-5.35	101.62	104.30
1	AA	714	G	C5-N7-C8	-5.35	101.62	104.30
1	AA	722	G	N9-C4-C5	-5.35	103.26	105.40
1	AA	725	G	C3'-C2'-C1'	5.35	105.78	101.50
1	AA	763	G	C3'-C2'-C1'	-5.35	97.22	101.50
1	AA	1358	U	C2-N3-C4	-5.35	123.79	127.00
1	AA	1485	U	O5'-P-OP1	-5.35	100.88	105.70
25	BA	8	C	C4'-C3'-C2'	-5.35	97.25	102.60
26	BB	99	U	N3-C4-O4	-5.35	115.65	119.40
26	BB	326	G	C2'-C3'-O3'	5.35	122.26	113.70
26	BB	1324	G	C5-C6-N1	5.35	114.18	111.50
26	BB	1400	U	O4'-C1'-C2'	-5.35	100.45	105.80
26	BB	1457	U	C5'-C4'-O4'	5.35	115.52	109.10
26	BB	1916	A	O4'-C4'-C3'	5.35	110.38	106.10
26	BB	1918	A	O4'-C1'-C2'	-5.35	100.45	105.80
26	BB	2017	U	P-O3'-C3'	5.35	126.12	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2186	G	N9-C4-C5	5.35	107.54	105.40
26	BB	2525	G	C4-C5-C6	-5.35	115.59	118.80
26	BB	2708	G	N3-C4-C5	-5.35	125.92	128.60
1	AA	30	U	C1'-O4'-C4'	-5.35	105.62	109.90
1	AA	306	A	C6-C5-N7	5.35	136.05	132.30
1	AA	1092	A	N7-C8-N9	5.35	116.48	113.80
1	AA	1200	C	C4'-C3'-C2'	-5.35	97.25	102.60
26	BB	738	G	P-O3'-C3'	5.35	126.12	119.70
26	BB	1354	A	C5-C6-N6	-5.35	119.42	123.70
26	BB	1608	A	O4'-C1'-N9	5.35	112.48	108.20
26	BB	2473	U	O4'-C4'-C3'	5.35	110.38	106.10
26	BB	2534	A	N9-C1'-C2'	-5.35	106.11	112.00
26	BB	2820	A	O4'-C1'-C2'	-5.35	100.45	105.80
1	AA	623	C	O3'-P-O5'	-5.35	93.84	104.00
1	AA	668	G	N1-C6-O6	5.35	123.11	119.90
1	AA	765	G	C2-N3-C4	5.35	114.58	111.90
1	AA	781	A	C4-C5-N7	-5.35	108.03	110.70
15	AO	116	TYR	CB-CG-CD2	5.35	124.21	121.00
22	AV	33	TRP	NE1-CE2-CZ2	5.35	136.28	130.40
25	BA	59	A	C4-C5-N7	5.35	113.38	110.70
25	BA	96	G	OP1-P-OP2	-5.35	111.58	119.60
26	BB	343	C	N3-C2-O2	-5.35	118.16	121.90
26	BB	834	G	C4-C5-C6	5.35	122.01	118.80
26	BB	926	G	C2-N3-C4	5.35	114.57	111.90
26	BB	1018	U	C2-N3-C4	-5.35	123.79	127.00
26	BB	1018	U	N1-C2-O2	5.35	126.54	122.80
26	BB	1065	U	C5-C4-O4	5.35	129.11	125.90
26	BB	1732	C	N1-C1'-C2'	5.35	120.95	114.00
26	BB	1765	U	N3-C2-O2	-5.35	118.46	122.20
26	BB	2232	C	C4-C5-C6	5.35	120.07	117.40
26	BB	2601	C	N1-C2-N3	5.35	122.94	119.20
26	BB	2890	G	N9-C1'-C2'	-5.35	106.12	112.00
32	BH	51	PHE	CB-CG-CD1	-5.35	117.06	120.80
1	AA	1287	A	N3-C4-N9	-5.35	123.12	127.40
1	AA	1379	G	C5-C6-O6	5.35	131.81	128.60
1	AA	1505	G	C4-C5-C6	-5.35	115.59	118.80
26	BB	50	U	C3'-C2'-C1'	-5.35	97.22	101.50
26	BB	1087	G	C5-N7-C8	5.35	106.97	104.30
26	BB	1234	U	P-O3'-C3'	5.35	126.12	119.70
26	BB	1380	G	C4-C5-C6	5.35	122.01	118.80
26	BB	1381	G	N1-C6-O6	5.35	123.11	119.90
26	BB	1404	C	N1-C2-N3	5.35	122.94	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1717	A	N7-C8-N9	5.35	116.47	113.80
26	BB	1741	C	N3-C4-C5	5.35	124.04	121.90
52	B1	3	THR	CA-CB-CG2	5.35	119.89	112.40
1	AA	5	U	P-O3'-C3'	5.35	126.12	119.70
1	AA	509	A	N7-C8-N9	-5.35	111.13	113.80
5	AE	197	PHE	CB-CG-CD1	-5.35	117.06	120.80
26	BB	1745	A	N3-C4-C5	5.35	130.54	126.80
26	BB	1952	A	N1-C6-N6	5.35	121.81	118.60
26	BB	2091	C	C2-N3-C4	-5.35	117.23	119.90
26	BB	2476	A	O4'-C1'-N9	5.35	112.48	108.20
26	BB	2757	A	N9-C1'-C2'	-5.35	106.12	112.00
26	BB	2832	U	C2-N1-C1'	5.35	124.11	117.70
1	AA	142	G	N1-C6-O6	5.34	123.11	119.90
1	AA	360	G	N9-C4-C5	5.34	107.54	105.40
1	AA	494	G	C4'-C3'-C2'	5.34	107.94	102.60
1	AA	548	G	O5'-P-OP1	-5.34	100.89	105.70
1	AA	761	G	N3-C4-N9	5.34	129.21	126.00
1	AA	1125	U	C4'-C3'-C2'	-5.34	97.25	102.60
1	AA	1219	A	C4'-C3'-C2'	-5.34	97.26	102.60
1	AA	1228	C	C6-N1-C2	5.34	122.44	120.30
1	AA	1298	U	C5-C4-O4	5.34	129.11	125.90
1	AA	1395	C	O4'-C1'-N1	5.34	112.48	108.20
1	AA	1403	C	C5'-C4'-C3'	-5.34	107.45	116.00
1	AA	1454	G	C4-C5-N7	5.34	112.94	110.80
26	BB	252	G	C5'-C4'-O4'	5.34	115.52	109.10
26	BB	743	A	C4'-C3'-O3'	5.34	123.69	113.00
26	BB	863	A	O3'-P-O5'	-5.34	93.84	104.00
26	BB	1343	G	N3-C2-N2	-5.34	116.16	119.90
26	BB	1587	G	N3-C2-N2	-5.34	116.16	119.90
26	BB	1740	G	C5-N7-C8	-5.34	101.63	104.30
26	BB	2222	C	C2-N3-C4	-5.34	117.23	119.90
26	BB	2343	U	O5'-P-OP2	-5.34	100.89	105.70
43	BS	23	TYR	CD1-CE1-CZ	5.34	124.61	119.80
1	AA	124	C	C4-C5-C6	5.34	120.07	117.40
1	AA	161	A	C4-C5-N7	5.34	113.37	110.70
1	AA	597	G	C6-C5-N7	-5.34	127.19	130.40
1	AA	627	G	C8-N9-C4	5.34	108.54	106.40
1	AA	723	U	C4'-C3'-C2'	-5.34	97.26	102.60
1	AA	1132	C	C4'-C3'-C2'	-5.34	97.26	102.60
1	AA	1212	U	C6-N1-C2	-5.34	117.79	121.00
1	AA	1242	G	N3-C4-N9	-5.34	122.79	126.00
2	AB	15	A	C4-C5-N7	5.34	113.37	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1023	U	P-O3'-C3'	5.34	126.11	119.70
26	BB	1262	A	C5-C6-N1	5.34	120.37	117.70
26	BB	1454	C	N3-C2-O2	-5.34	118.16	121.90
26	BB	1680	U	O4'-C1'-N1	5.34	112.47	108.20
26	BB	2749	A	C4-C5-N7	-5.34	108.03	110.70
34	BJ	93	ARG	NH1-CZ-NH2	5.34	125.28	119.40
1	AA	129	A	OP1-P-OP2	-5.34	111.59	119.60
1	AA	165	G	C5-N7-C8	-5.34	101.63	104.30
1	AA	393	A	N7-C8-N9	5.34	116.47	113.80
1	AA	534	U	C5-C6-N1	-5.34	120.03	122.70
1	AA	948	C	C4-C5-C6	5.34	120.07	117.40
1	AA	1072	G	C8-N9-C4	-5.34	104.26	106.40
4	AD	28	U	C5-C4-O4	-5.34	122.69	125.90
4	AD	75	C	C5-C6-N1	5.34	123.67	121.00
5	AE	86	CYS	CA-CB-SG	-5.34	104.39	114.00
8	AH	22	LYS	CA-CB-CG	-5.34	101.65	113.40
26	BB	512	G	C4-C5-C6	-5.34	115.60	118.80
26	BB	780	G	O5'-P-OP2	-5.34	100.89	105.70
26	BB	854	C	C1'-O4'-C4'	-5.34	105.63	109.90
26	BB	1294	U	N3-C4-C5	-5.34	111.39	114.60
26	BB	1328	A	N3-C4-N9	-5.34	123.13	127.40
26	BB	1418	G	N1-C2-N2	-5.34	111.39	116.20
26	BB	1514	G	C4'-C3'-C2'	-5.34	97.26	102.60
26	BB	1855	U	N1-C2-O2	5.34	126.54	122.80
26	BB	2200	C	C4-C5-C6	-5.34	114.73	117.40
26	BB	2241	A	C5'-C4'-O4'	5.34	115.51	109.10
26	BB	2864	G	N3-C4-N9	5.34	129.21	126.00
1	AA	229	U	O4'-C1'-C2'	-5.34	100.46	105.80
1	AA	324	G	N7-C8-N9	-5.34	110.43	113.10
1	AA	379	C	C6-N1-C2	-5.34	118.16	120.30
1	AA	424	G	C6-N1-C2	-5.34	121.90	125.10
1	AA	935	A	C6-N1-C2	-5.34	115.40	118.60
1	AA	972	C	N1-C2-O2	5.34	122.10	118.90
1	AA	1009	U	N3-C4-O4	-5.34	115.66	119.40
1	AA	1333	A	N1-C6-N6	-5.34	115.40	118.60
26	BB	120	U	C4-C5-C6	5.34	122.90	119.70
26	BB	405	U	C5-C6-N1	5.34	125.37	122.70
26	BB	430	A	O4'-C1'-N9	5.34	112.47	108.20
26	BB	538	A	C4'-C3'-C2'	-5.34	97.26	102.60
26	BB	1465	G	C6-C5-N7	-5.34	127.20	130.40
26	BB	1678	A	C3'-C2'-C1'	-5.34	97.23	101.50
26	BB	1980	G	N1-C2-N3	-5.34	120.70	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2099	U	C4'-C3'-C2'	-5.34	97.26	102.60
26	BB	2394	C	N1-C2-O2	5.34	122.10	118.90
26	BB	2651	C	N3-C4-C5	5.34	124.04	121.90
26	BB	2896	C	N1-C2-O2	5.34	122.10	118.90
1	AA	482	A	N1-C6-N6	5.34	121.80	118.60
1	AA	542	G	N1-C2-N3	5.34	127.10	123.90
1	AA	760	G	O4'-C4'-C3'	-5.34	98.66	104.00
1	AA	1338	G	C2'-C3'-O3'	5.34	122.24	113.70
4	AD	51	U	C4-C5-C6	5.34	122.90	119.70
26	BB	152	A	C5'-C4'-C3'	-5.34	107.46	116.00
26	BB	220	G	C6-N1-C2	5.34	128.30	125.10
26	BB	236	C	C5-C4-N4	-5.34	116.46	120.20
26	BB	510	C	C5-C6-N1	-5.34	118.33	121.00
26	BB	1163	G	C4-C5-N7	-5.34	108.67	110.80
26	BB	1689	A	C8-N9-C4	5.34	107.94	105.80
26	BB	2686	G	N1-C2-N2	5.34	121.00	116.20
1	AA	216	U	O4'-C1'-N1	5.34	112.47	108.20
1	AA	269	C	C6-N1-C2	-5.34	118.17	120.30
1	AA	471	U	O4'-C1'-N1	5.34	112.47	108.20
1	AA	565	U	N3-C2-O2	-5.34	118.47	122.20
1	AA	656	G	O4'-C1'-N9	5.34	112.47	108.20
1	AA	1280	A	C6-C5-N7	5.34	136.03	132.30
1	AA	1478	U	C6-N1-C2	5.34	124.20	121.00
26	BB	289	G	C8-N9-C1'	5.34	133.94	127.00
26	BB	469	G	P-O3'-C3'	5.34	126.10	119.70
26	BB	620	G	C8-N9-C4	-5.34	104.27	106.40
26	BB	1036	G	N9-C1'-C2'	-5.34	106.13	112.00
26	BB	1524	G	C2-N3-C4	5.34	114.57	111.90
26	BB	1975	G	O4'-C4'-C3'	5.34	110.37	106.10
26	BB	2241	A	C5-N7-C8	5.34	106.57	103.90
26	BB	2817	U	N1-C1'-C2'	-5.34	106.13	112.00
37	BM	107	LEU	CB-CG-CD1	5.34	120.07	111.00
1	AA	662	U	N3-C2-O2	-5.33	118.47	122.20
1	AA	1419	G	N1-C6-O6	-5.33	116.70	119.90
1	AA	1444	U	N1-C2-O2	-5.33	119.07	122.80
4	AD	54	G	N3-C4-C5	-5.33	125.93	128.60
26	BB	263	G	C4'-C3'-C2'	-5.33	97.27	102.60
26	BB	284	U	N3-C4-O4	-5.33	115.67	119.40
26	BB	533	G	C5-C6-N1	-5.33	108.83	111.50
26	BB	540	C	N1-C2-O2	5.33	122.10	118.90
26	BB	734	A	C8-N9-C4	-5.33	103.67	105.80
26	BB	779	U	N3-C4-O4	5.33	123.13	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1214	A	C6-C5-N7	5.33	136.03	132.30
26	BB	1399	C	C3'-C2'-C1'	-5.33	97.23	101.50
26	BB	2027	G	C4-C5-C6	5.33	122.00	118.80
26	BB	2369	A	N3-C4-N9	-5.33	123.13	127.40
26	BB	2440	C	P-O3'-C3'	5.33	126.10	119.70
26	BB	2857	G	C4-C5-N7	5.33	112.93	110.80
36	BL	15	TRP	NE1-CE2-CD2	-5.33	101.97	107.30
1	AA	192	A	C5-C6-N1	5.33	120.37	117.70
1	AA	375	U	C5'-C4'-C3'	-5.33	107.47	116.00
1	AA	499	A	C4-C5-C6	-5.33	114.33	117.00
1	AA	512	U	O4'-C1'-C2'	-5.33	100.47	105.80
1	AA	817	C	C5-C4-N4	5.33	123.93	120.20
1	AA	825	A	C4-C5-C6	-5.33	114.33	117.00
1	AA	829	G	C1'-O4'-C4'	-5.33	105.63	109.90
1	AA	1270	G	C5'-C4'-O4'	5.33	115.50	109.10
1	AA	1376	U	P-O3'-C3'	5.33	126.10	119.70
17	AQ	19	TYR	CG-CD2-CE2	-5.33	117.03	121.30
25	BA	93	C	C6-N1-C2	-5.33	118.17	120.30
25	BA	113	C	N3-C2-O2	5.33	125.63	121.90
26	BB	772	C	N3-C2-O2	-5.33	118.17	121.90
26	BB	974	G	N1-C6-O6	-5.33	116.70	119.90
26	BB	1867	G	C1'-O4'-C4'	-5.33	105.63	109.90
26	BB	2337	G	C4-C5-C6	5.33	122.00	118.80
26	BB	2388	A	C5-C6-N6	-5.33	119.43	123.70
1	AA	19	A	C5'-C4'-O4'	5.33	115.50	109.10
1	AA	320	A	O4'-C4'-C3'	5.33	110.36	106.10
1	AA	505	G	P-O3'-C3'	5.33	126.10	119.70
1	AA	650	G	C2-N3-C4	5.33	114.56	111.90
1	AA	805	C	C2-N3-C4	5.33	122.57	119.90
1	AA	888	G	C4'-C3'-C2'	-5.33	97.27	102.60
1	AA	1304	G	N3-C4-C5	5.33	131.27	128.60
2	AB	15	A	C8-N9-C4	-5.33	103.67	105.80
25	BA	71	C	C4-C5-C6	-5.33	114.73	117.40
26	BB	21	A	C5'-C4'-O4'	5.33	115.50	109.10
26	BB	48	G	C4'-C3'-C2'	-5.33	97.27	102.60
26	BB	54	G	N9-C4-C5	5.33	107.53	105.40
26	BB	114	U	O4'-C1'-N1	5.33	112.47	108.20
26	BB	505	A	N9-C4-C5	-5.33	103.67	105.80
26	BB	821	A	N1-C2-N3	-5.33	126.63	129.30
26	BB	1062	G	C6-C5-N7	-5.33	127.20	130.40
26	BB	1115	G	N1-C2-N2	-5.33	111.40	116.20
26	BB	1694	C	C6-N1-C1'	-5.33	114.40	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1811	G	C8-N9-C1'	5.33	133.93	127.00
26	BB	1927	A	P-O3'-C3'	5.33	126.10	119.70
53	B2	21	VAL	CA-CB-CG1	5.33	118.90	110.90
1	AA	268	U	C4'-C3'-C2'	-5.33	97.27	102.60
1	AA	604	G	C2-N3-C4	-5.33	109.23	111.90
3	AC	47	C	N3-C2-O2	-5.33	118.17	121.90
26	BB	178	G	N3-C2-N2	-5.33	116.17	119.90
26	BB	1113	U	C6-N1-C2	-5.33	117.80	121.00
26	BB	1192	G	O5'-P-OP2	-5.33	100.90	105.70
26	BB	1582	C	N1-C2-O2	-5.33	115.70	118.90
26	BB	2348	U	N1-C2-O2	5.33	126.53	122.80
46	BV	85	VAL	CA-CB-CG1	-5.33	102.91	110.90
1	AA	397	A	N1-C6-N6	-5.33	115.40	118.60
1	AA	713	G	N3-C2-N2	5.33	123.63	119.90
1	AA	732	C	C5-C4-N4	-5.33	116.47	120.20
1	AA	1248	A	P-O3'-C3'	5.33	126.09	119.70
1	AA	1299	A	C1'-O4'-C4'	-5.33	105.64	109.90
1	AA	1374	A	C5-C6-N1	5.33	120.36	117.70
1	AA	1514	G	N3-C2-N2	-5.33	116.17	119.90
2	AB	2	G	C5-C6-N1	5.33	114.16	111.50
10	AJ	91	ARG	CD-NE-CZ	5.33	131.06	123.60
26	BB	26	G	C5'-C4'-O4'	5.33	115.50	109.10
26	BB	50	U	N1-C2-O2	5.33	126.53	122.80
26	BB	379	G	C6-N1-C2	5.33	128.30	125.10
26	BB	413	C	O3'-P-O5'	-5.33	93.88	104.00
26	BB	474	G	N1-C2-N2	5.33	121.00	116.20
26	BB	584	C	C3'-C2'-C1'	5.33	105.76	101.50
26	BB	1076	C	N3-C4-C5	-5.33	119.77	121.90
26	BB	1198	U	N1-C2-N3	5.33	118.10	114.90
26	BB	1223	G	C4'-C3'-C2'	-5.33	97.27	102.60
26	BB	1262	A	C5'-C4'-O4'	5.33	115.50	109.10
26	BB	1304	A	C8-N9-C4	-5.33	103.67	105.80
26	BB	1463	C	C1'-O4'-C4'	5.33	114.16	109.90
26	BB	1652	A	C6-C5-N7	5.33	136.03	132.30
26	BB	1966	A	C5'-C4'-C3'	-5.33	107.47	116.00
26	BB	2128	G	N3-C4-C5	-5.33	125.94	128.60
26	BB	2270	A	C4-C5-N7	-5.33	108.04	110.70
26	BB	2286	G	C5-N7-C8	5.33	106.97	104.30
26	BB	2540	C	C5'-C4'-O4'	5.33	115.49	109.10
1	AA	487	A	N1-C6-N6	-5.33	115.40	118.60
26	BB	802	A	N7-C8-N9	-5.33	111.14	113.80
26	BB	1438	U	C4-C5-C6	5.33	122.90	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1699	G	N1-C2-N2	5.33	120.99	116.20
26	BB	2036	C	O4'-C1'-N1	5.33	112.46	108.20
26	BB	2105	U	C5-C6-N1	-5.33	120.04	122.70
26	BB	2428	G	C4-C5-C6	5.33	122.00	118.80
1	AA	68	G	C4-C5-C6	5.33	122.00	118.80
1	AA	150	U	N1-C2-O2	-5.33	119.07	122.80
1	AA	266	G	N1-C2-N3	-5.33	120.70	123.90
1	AA	330	C	C5'-C4'-O4'	5.33	115.49	109.10
1	AA	548	G	N1-C2-N3	5.33	127.09	123.90
1	AA	707	U	P-O3'-C3'	5.33	126.09	119.70
3	AC	44	U	O4'-C1'-N1	5.33	112.46	108.20
4	AD	63	C	C5-C6-N1	5.33	123.66	121.00
14	AN	97	ARG	CD-NE-CZ	5.33	131.06	123.60
26	BB	1651	G	C5'-C4'-C3'	-5.33	107.48	116.00
26	BB	2427	C	N3-C4-N4	-5.33	114.27	118.00
1	AA	68	G	C5-N7-C8	5.32	106.96	104.30
1	AA	722	G	C8-N9-C4	-5.32	104.27	106.40
1	AA	1182	G	C4-C5-C6	5.32	122.00	118.80
1	AA	1440	U	N3-C4-C5	5.32	117.79	114.60
2	AB	75	C	C5-C4-N4	5.32	123.93	120.20
3	AC	23	C	C6-N1-C2	-5.32	118.17	120.30
25	BA	79	G	N7-C8-N9	-5.32	110.44	113.10
26	BB	1043	C	C6-N1-C2	5.32	122.43	120.30
26	BB	1051	G	N7-C8-N9	5.32	115.76	113.10
26	BB	1384	A	N3-C4-C5	-5.32	123.07	126.80
26	BB	2141	G	C4-C5-N7	-5.32	108.67	110.80
26	BB	2207	C	C2-N3-C4	5.32	122.56	119.90
26	BB	2370	G	N3-C4-N9	5.32	129.19	126.00
3	AC	49	U	C2-N3-C4	-5.32	123.81	127.00
26	BB	158	U	N1-C2-N3	5.32	118.09	114.90
26	BB	334	C	C6-N1-C1'	5.32	127.19	120.80
26	BB	1056	G	C8-N9-C4	-5.32	104.27	106.40
26	BB	1374	G	N1-C2-N3	5.32	127.09	123.90
26	BB	2796	U	C5-C6-N1	-5.32	120.04	122.70
1	AA	223	A	P-O3'-C3'	5.32	126.08	119.70
1	AA	820	U	O4'-C4'-C3'	5.32	110.36	106.10
1	AA	843	U	C4-C5-C6	-5.32	116.51	119.70
1	AA	1287	A	C4'-C3'-C2'	-5.32	97.28	102.60
1	AA	1450	U	N3-C2-O2	-5.32	118.47	122.20
26	BB	216	A	N9-C4-C5	-5.32	103.67	105.80
26	BB	444	C	C5'-C4'-C3'	-5.32	107.49	116.00
26	BB	474	G	N1-C6-O6	5.32	123.09	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	506	G	C2-N3-C4	5.32	114.56	111.90
26	BB	1049	C	N3-C2-O2	5.32	125.62	121.90
26	BB	1524	G	C1'-O4'-C4'	-5.32	105.64	109.90
26	BB	2092	U	O4'-C1'-C2'	-5.32	100.48	105.80
26	BB	2436	G	N1-C2-N2	5.32	120.99	116.20
26	BB	2649	C	N3-C4-N4	-5.32	114.28	118.00
26	BB	2683	C	N1-C2-N3	5.32	122.92	119.20
26	BB	2807	U	O4'-C1'-N1	5.32	112.46	108.20
26	BB	2855	C	C5-C6-N1	5.32	123.66	121.00
27	BC	94	LEU	CB-CG-CD1	5.32	120.05	111.00
32	BH	146	ASP	CB-CG-OD1	-5.32	113.51	118.30
41	BQ	3	LYS	CA-CB-CG	5.32	125.11	113.40
13	AM	13	PHE	CB-CG-CD2	5.32	124.52	120.80
26	BB	356	G	N1-C2-N3	-5.32	120.71	123.90
26	BB	983	A	C4-C5-C6	5.32	119.66	117.00
26	BB	1014	A	C1'-O4'-C4'	-5.32	105.64	109.90
26	BB	1251	C	O3'-P-O5'	-5.32	93.89	104.00
26	BB	1564	C	C2-N1-C1'	5.32	124.65	118.80
26	BB	1816	C	N1-C2-O2	5.32	122.09	118.90
26	BB	1842	G	C5-C6-N1	5.32	114.16	111.50
26	BB	2161	C	N1-C2-O2	5.32	122.09	118.90
26	BB	2659	G	N1-C2-N2	-5.32	111.41	116.20
36	BL	80	HIS	O-C-N	5.32	131.21	122.70
1	AA	358	U	N3-C4-O4	-5.32	115.68	119.40
1	AA	391	G	C8-N9-C1'	5.32	133.91	127.00
1	AA	481	G	C6-N1-C2	-5.32	121.91	125.10
1	AA	561	U	C5-C4-O4	5.32	129.09	125.90
1	AA	733	G	C6-C5-N7	5.32	133.59	130.40
1	AA	813	U	C5-C6-N1	-5.32	120.04	122.70
1	AA	1121	U	C4'-C3'-C2'	-5.32	97.28	102.60
1	AA	1447	A	N3-C4-C5	5.32	130.52	126.80
15	AO	39	THR	CA-CB-OG1	5.32	120.17	109.00
26	BB	190	A	N1-C2-N3	-5.32	126.64	129.30
26	BB	220	G	C8-N9-C1'	5.32	133.91	127.00
26	BB	340	A	O4'-C1'-N9	-5.32	103.94	108.20
26	BB	1347	A	C4'-C3'-C2'	-5.32	97.28	102.60
26	BB	1384	A	C5-C6-N1	5.32	120.36	117.70
26	BB	1538	G	N1-C6-O6	-5.32	116.71	119.90
26	BB	2178	C	N1-C2-N3	-5.32	115.48	119.20
26	BB	2361	G	C5-C6-O6	-5.32	125.41	128.60
26	BB	2464	G	C4'-C3'-C2'	-5.32	97.28	102.60
26	BB	2878	U	N3-C4-C5	5.32	117.79	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	BD	151	GLY	O-C-N	5.32	131.21	122.70
1	AA	133	U	C6-N1-C2	-5.32	117.81	121.00
1	AA	352	C	C5-C4-N4	-5.32	116.48	120.20
1	AA	380	G	N3-C2-N2	-5.32	116.18	119.90
1	AA	478	A	C6-N1-C2	5.32	121.79	118.60
1	AA	579	A	C5-C6-N6	-5.32	119.45	123.70
1	AA	617	G	C4-C5-C6	-5.32	115.61	118.80
1	AA	1050	G	C3'-C2'-C1'	5.32	105.75	101.50
1	AA	1173	U	N3-C4-O4	5.32	123.12	119.40
1	AA	1253	G	N3-C4-C5	-5.32	125.94	128.60
1	AA	1267	C	C3'-C2'-C1'	-5.32	97.25	101.50
1	AA	1533	C	C2-N3-C4	5.32	122.56	119.90
4	AD	36	A	C6-C5-N7	5.32	136.02	132.30
13	AM	96	VAL	CA-CB-CG1	5.32	118.87	110.90
25	BA	69	G	N3-C4-N9	5.32	129.19	126.00
26	BB	56	A	C4-C5-C6	-5.32	114.34	117.00
26	BB	192	C	N3-C4-C5	-5.32	119.77	121.90
26	BB	387	U	C1'-O4'-C4'	-5.32	105.65	109.90
26	BB	1031	G	N9-C4-C5	5.32	107.53	105.40
26	BB	1050	A	C4-C5-C6	-5.32	114.34	117.00
26	BB	1272	A	C2-N3-C4	5.32	113.26	110.60
26	BB	1542	U	N1-C1'-C2'	-5.32	106.15	112.00
26	BB	1756	G	C5'-C4'-O4'	5.32	115.48	109.10
26	BB	1918	A	C6-N1-C2	-5.32	115.41	118.60
26	BB	1949	G	C4'-C3'-C2'	-5.32	97.28	102.60
26	BB	1959	G	N1-C6-O6	5.32	123.09	119.90
43	BS	31	TYR	CG-CD1-CE1	-5.32	117.05	121.30
1	AA	1398	A	C5-N7-C8	-5.31	101.24	103.90
2	AB	60	U	N3-C2-O2	-5.31	118.48	122.20
12	AL	50	PRO	CA-N-CD	-5.31	104.06	111.50
26	BB	211	C	P-O3'-C3'	5.31	126.08	119.70
26	BB	298	G	C5-C6-N1	5.31	114.16	111.50
26	BB	430	A	O4'-C4'-C3'	5.31	110.35	106.10
26	BB	655	A	O4'-C1'-N9	-5.31	103.95	108.20
26	BB	995	C	C5-C4-N4	-5.31	116.48	120.20
26	BB	1037	G	C5'-C4'-O4'	5.31	115.48	109.10
26	BB	2029	G	N7-C8-N9	5.31	115.76	113.10
26	BB	2329	U	N3-C4-O4	5.31	123.12	119.40
43	BS	49	ARG	CB-CA-C	5.31	121.03	110.40
45	BU	46	LEU	CA-CB-CG	-5.31	103.08	115.30
1	AA	230	G	C3'-C2'-C1'	-5.31	97.25	101.50
1	AA	376	G	C8-N9-C1'	5.31	133.91	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	392	C	N3-C4-N4	5.31	121.72	118.00
1	AA	498	A	P-O3'-C3'	5.31	126.07	119.70
1	AA	572	A	P-O3'-C3'	5.31	126.07	119.70
1	AA	752	G	N3-C4-C5	-5.31	125.94	128.60
1	AA	913	A	N9-C4-C5	5.31	107.92	105.80
1	AA	1466	C	C5-C4-N4	-5.31	116.48	120.20
2	AB	68	C	C5-C6-N1	5.31	123.66	121.00
12	AL	6	TYR	CZ-CE2-CD2	-5.31	115.02	119.80
26	BB	81	G	N3-C2-N2	5.31	123.62	119.90
26	BB	645	C	N3-C4-C5	-5.31	119.78	121.90
26	BB	691	C	C1'-O4'-C4'	5.31	114.15	109.90
26	BB	766	U	C1'-O4'-C4'	5.31	114.15	109.90
26	BB	1002	G	C4-C5-N7	-5.31	108.67	110.80
26	BB	1239	G	C2-N3-C4	5.31	114.56	111.90
26	BB	2035	G	N1-C2-N3	-5.31	120.71	123.90
26	BB	2197	U	C1'-O4'-C4'	5.31	114.15	109.90
26	BB	2482	A	N3-C4-C5	-5.31	123.08	126.80
26	BB	2618	G	C5-N7-C8	-5.31	101.64	104.30
26	BB	2704	C	O4'-C1'-C2'	5.31	112.38	107.60
29	BE	84	LEU	CB-CG-CD1	5.31	120.03	111.00
1	AA	302	G	C6-N1-C2	-5.31	121.91	125.10
1	AA	1395	C	O3'-P-O5'	5.31	114.09	104.00
1	AA	1514	G	N7-C8-N9	5.31	115.76	113.10
2	AB	62	U	O5'-P-OP2	-5.31	100.92	105.70
12	AL	40	ARG	NE-CZ-NH1	5.31	122.96	120.30
26	BB	330	A	C6-C5-N7	5.31	136.02	132.30
26	BB	503	A	C4'-C3'-C2'	5.31	107.91	102.60
26	BB	548	G	N9-C1'-C2'	5.31	120.90	114.00
26	BB	609	A	C5-N7-C8	-5.31	101.24	103.90
26	BB	663	G	N7-C8-N9	-5.31	110.44	113.10
26	BB	677	A	P-O3'-C3'	5.31	126.07	119.70
26	BB	1095	A	C5-C6-N6	5.31	127.95	123.70
26	BB	1696	G	C4-C5-C6	5.31	121.99	118.80
26	BB	1878	G	N3-C4-N9	5.31	129.19	126.00
26	BB	2320	U	O4'-C4'-C3'	5.31	110.35	106.10
26	BB	2633	G	N1-C2-N2	5.31	120.98	116.20
26	BB	2848	G	O4'-C4'-C3'	5.31	110.35	106.10
1	AA	705	G	C5'-C4'-C3'	-5.31	107.51	116.00
1	AA	777	A	N1-C2-N3	5.31	131.95	129.30
1	AA	944	G	C4'-C3'-C2'	-5.31	97.29	102.60
1	AA	1070	U	C4-C5-C6	5.31	122.89	119.70
1	AA	1236	A	N1-C6-N6	5.31	121.78	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1463	U	C2-N1-C1'	5.31	124.07	117.70
1	AA	1513	A	C6-N1-C2	-5.31	115.41	118.60
13	AM	7	ARG	CD-NE-CZ	5.31	131.03	123.60
14	AN	8	ARG	CD-NE-CZ	5.31	131.03	123.60
25	BA	100	G	P-O3'-C3'	5.31	126.07	119.70
26	BB	1614	A	C2'-C3'-O3'	5.31	122.19	113.70
26	BB	1623	G	C6-N1-C2	-5.31	121.92	125.10
26	BB	2289	G	C3'-C2'-C1'	-5.31	97.25	101.50
26	BB	2351	G	C5-C6-O6	-5.31	125.41	128.60
26	BB	2582	G	N3-C2-N2	-5.31	116.18	119.90
26	BB	2648	G	C4-C5-C6	5.31	121.98	118.80
36	BL	120	ARG	NE-CZ-NH2	5.31	122.95	120.30
1	AA	145	G	C5-C6-N1	5.31	114.15	111.50
1	AA	164	G	O4'-C4'-C3'	5.31	110.35	106.10
1	AA	374	A	C3'-C2'-C1'	-5.31	97.25	101.50
1	AA	952	U	C4'-C3'-C2'	-5.31	97.29	102.60
1	AA	1032	G	C2-N3-C4	5.31	114.55	111.90
1	AA	1322	C	C6-N1-C1'	-5.31	114.43	120.80
2	AB	30	G	N3-C4-C5	-5.31	125.95	128.60
26	BB	109	C	C2-N3-C4	5.31	122.55	119.90
26	BB	203	A	P-O3'-C3'	5.31	126.07	119.70
26	BB	962	G	C5-C6-O6	5.31	131.78	128.60
26	BB	1081	U	O4'-C4'-C3'	5.31	110.34	106.10
26	BB	1146	C	N1-C2-O2	5.31	122.08	118.90
26	BB	1402	U	P-O3'-C3'	5.31	126.07	119.70
26	BB	1552	A	C5-N7-C8	5.31	106.55	103.90
26	BB	1596	A	C5-C6-N1	5.31	120.35	117.70
26	BB	1927	A	N1-C2-N3	5.31	131.95	129.30
26	BB	2211	A	N1-C6-N6	5.31	121.78	118.60
26	BB	2465	C	O4'-C1'-N1	5.31	112.45	108.20
26	BB	2657	A	C5'-C4'-C3'	-5.31	107.51	116.00
31	BG	133	GLU	OE1-CD-OE2	5.31	129.67	123.30
1	AA	140	U	N3-C4-O4	5.31	123.11	119.40
1	AA	650	G	C5-C6-O6	-5.31	125.42	128.60
1	AA	828	U	N1-C2-N3	5.31	118.08	114.90
1	AA	1073	U	C2-N3-C4	-5.31	123.82	127.00
26	BB	1308	A	N1-C6-N6	5.31	121.78	118.60
26	BB	1337	G	O4'-C1'-N9	5.31	112.44	108.20
26	BB	1396	U	C4-C5-C6	-5.31	116.52	119.70
26	BB	1456	G	C3'-C2'-C1'	-5.31	97.25	101.50
26	BB	1938	A	C5-C6-N1	-5.31	115.05	117.70
26	BB	2708	G	C1'-O4'-C4'	-5.31	105.66	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	531	U	N3-C4-O4	5.30	123.11	119.40
1	AA	653	U	O4'-C4'-C3'	5.30	110.34	106.10
1	AA	716	A	C4-C5-C6	-5.30	114.35	117.00
1	AA	808	C	C1'-O4'-C4'	-5.30	105.66	109.90
1	AA	1221	G	O4'-C1'-N9	5.30	112.44	108.20
4	AD	41	C	C4'-C3'-C2'	-5.30	97.30	102.60
4	AD	48	U	C5'-C4'-C3'	5.30	124.49	116.00
26	BB	17	G	N1-C6-O6	-5.30	116.72	119.90
26	BB	84	A	C8-N9-C4	5.30	107.92	105.80
26	BB	130	C	C2-N3-C4	5.30	122.55	119.90
26	BB	172	A	C4'-C3'-C2'	5.30	107.91	102.60
26	BB	1375	U	N3-C4-O4	5.30	123.11	119.40
26	BB	1682	G	N1-C6-O6	5.30	123.08	119.90
26	BB	2010	G	C1'-O4'-C4'	-5.30	105.66	109.90
26	BB	2840	C	O3'-P-O5'	-5.30	93.92	104.00
26	BB	2893	A	O4'-C4'-C3'	5.30	110.34	106.10
30	BF	19	PHE	CB-CG-CD1	-5.30	117.09	120.80
31	BG	83	PRO	N-CD-CG	5.30	111.16	103.20
1	AA	221	C	N1-C2-O2	5.30	122.08	118.90
1	AA	250	A	C6-C5-N7	5.30	136.01	132.30
1	AA	366	A	O4'-C1'-N9	5.30	112.44	108.20
25	BA	28	C	N3-C4-N4	-5.30	114.29	118.00
26	BB	6	A	C6-C5-N7	-5.30	128.59	132.30
26	BB	102	U	C4-C5-C6	5.30	122.88	119.70
26	BB	328	U	N1-C2-N3	5.30	118.08	114.90
26	BB	403	U	N3-C4-C5	-5.30	111.42	114.60
26	BB	554	U	C5-C4-O4	-5.30	122.72	125.90
26	BB	594	U	C5-C4-O4	-5.30	122.72	125.90
26	BB	623	C	N3-C4-N4	5.30	121.71	118.00
26	BB	711	G	N1-C2-N2	5.30	120.97	116.20
26	BB	1106	G	C1'-O4'-C4'	-5.30	105.66	109.90
26	BB	2481	G	O4'-C1'-C2'	5.30	112.37	107.60
1	AA	111	G	C6-N1-C2	-5.30	121.92	125.10
1	AA	596	A	N9-C1'-C2'	5.30	120.89	114.00
1	AA	1043	G	N9-C4-C5	5.30	107.52	105.40
1	AA	1091	U	C4'-C3'-C2'	-5.30	97.30	102.60
24	AX	17	ARG	NH1-CZ-NH2	5.30	125.23	119.40
26	BB	472	A	C6-N1-C2	5.30	121.78	118.60
26	BB	574	A	C3'-C2'-C1'	5.30	105.74	101.50
26	BB	739	A	C3'-C2'-C1'	5.30	105.74	101.50
26	BB	1131	G	C5-N7-C8	-5.30	101.65	104.30
26	BB	1181	U	C4-C5-C6	5.30	122.88	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2072	C	O4'-C4'-C3'	5.30	110.34	106.10
26	BB	2228	G	N3-C4-N9	-5.30	122.82	126.00
1	AA	5	U	C5'-C4'-C3'	-5.30	107.52	116.00
1	AA	9	G	N1-C2-N3	-5.30	120.72	123.90
1	AA	65	A	C5'-C4'-O4'	5.30	115.46	109.10
1	AA	165	G	C6-C5-N7	-5.30	127.22	130.40
1	AA	539	A	C5'-C4'-O4'	-5.30	102.74	109.10
1	AA	888	G	C4-C5-C6	5.30	121.98	118.80
1	AA	1125	U	C3'-C2'-C1'	5.30	105.74	101.50
7	AG	134	TYR	CD1-CG-CD2	5.30	123.73	117.90
26	BB	317	G	C5-N7-C8	-5.30	101.65	104.30
26	BB	524	G	C6-N1-C2	-5.30	121.92	125.10
26	BB	714	U	C6-N1-C2	-5.30	117.82	121.00
26	BB	989	G	N3-C4-N9	-5.30	122.82	126.00
26	BB	1439	A	C5-C6-N1	-5.30	115.05	117.70
26	BB	1649	G	P-O3'-C3'	5.30	126.06	119.70
26	BB	1649	G	C5-C6-N1	-5.30	108.85	111.50
26	BB	1711	A	P-O3'-C3'	5.30	126.06	119.70
26	BB	1716	U	O4'-C1'-N1	5.30	112.44	108.20
26	BB	2135	A	C2-N3-C4	-5.30	107.95	110.60
26	BB	2504	PSU	P-O3'-C3'	5.30	126.06	119.70
26	BB	2819	G	C2-N3-C4	5.30	114.55	111.90
1	AA	52	C	N3-C4-N4	-5.30	114.29	118.00
4	AD	3	C	C3'-C2'-C1'	5.30	105.74	101.50
26	BB	23	G	C4'-C3'-C2'	-5.30	97.30	102.60
26	BB	101	A	N1-C6-N6	-5.30	115.42	118.60
26	BB	714	U	N1-C2-O2	5.30	126.51	122.80
26	BB	977	G	C6-N1-C2	5.30	128.28	125.10
26	BB	1651	G	N3-C2-N2	5.30	123.61	119.90
26	BB	2072	C	N3-C4-C5	5.30	124.02	121.90
26	BB	2238	G	C4-C5-C6	5.30	121.98	118.80
26	BB	2725	A	O4'-C1'-N9	5.30	112.44	108.20
26	BB	2757	A	C5'-C4'-O4'	5.30	115.46	109.10
1	AA	82	G	O4'-C1'-N9	5.30	112.44	108.20
1	AA	83	C	N3-C4-C5	5.30	124.02	121.90
1	AA	973	G	O4'-C1'-N9	5.30	112.44	108.20
1	AA	1069	C	C5-C6-N1	-5.30	118.35	121.00
1	AA	1324	A	OP1-P-OP2	-5.30	111.65	119.60
1	AA	1391	U	N3-C4-O4	5.30	123.11	119.40
4	AD	38	A	C5'-C4'-O4'	5.30	115.45	109.10
7	AG	138	PRO	N-CD-CG	5.30	111.14	103.20
26	BB	55	G	C4-C5-C6	5.30	121.98	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	472	A	N3-C4-C5	-5.30	123.09	126.80
26	BB	879	G	N3-C4-N9	5.30	129.18	126.00
26	BB	1229	C	C1'-O4'-C4'	5.30	114.14	109.90
26	BB	1649	G	C4-C5-C6	5.30	121.98	118.80
26	BB	2071	A	O4'-C1'-N9	5.30	112.44	108.20
26	BB	2119	A	O4'-C1'-N9	5.30	112.44	108.20
26	BB	2508	G	N1-C6-O6	5.30	123.08	119.90
26	BB	2598	A	C4-C5-C6	5.30	119.65	117.00
26	BB	2793	C	N1-C1'-C2'	-5.30	106.17	112.00
1	AA	834	U	O4'-C1'-N1	5.29	112.44	108.20
1	AA	1097	C	N3-C4-N4	5.29	121.71	118.00
1	AA	1159	U	C5-C6-N1	-5.29	120.05	122.70
26	BB	323	C	C3'-C2'-C1'	5.29	105.74	101.50
26	BB	355	U	N1-C1'-C2'	-5.29	106.17	112.00
26	BB	547	A	N3-C4-N9	5.29	131.64	127.40
26	BB	636	G	C6-C5-N7	-5.29	127.22	130.40
26	BB	873	C	N3-C4-C5	5.29	124.02	121.90
26	BB	935	C	O4'-C1'-N1	5.29	112.44	108.20
26	BB	1007	C	N3-C4-C5	-5.29	119.78	121.90
27	BC	8	MET	CG-SD-CE	5.29	108.67	100.20
52	B1	39	ASP	CB-CG-OD2	5.29	123.06	118.30
1	AA	261	U	C4'-C3'-C2'	-5.29	97.31	102.60
1	AA	266	G	N9-C4-C5	-5.29	103.28	105.40
1	AA	375	U	C2-N3-C4	-5.29	123.82	127.00
1	AA	557	G	C5-C6-N1	5.29	114.15	111.50
1	AA	845	A	C5-N7-C8	5.29	106.55	103.90
1	AA	1434	A	C6-N1-C2	5.29	121.78	118.60
4	AD	42	C	C4-C5-C6	-5.29	114.75	117.40
26	BB	31	C	C5'-C4'-C3'	-5.29	107.53	116.00
26	BB	226	A	C6-N1-C2	-5.29	115.42	118.60
26	BB	294	A	C5'-C4'-O4'	5.29	115.45	109.10
26	BB	450	G	C8-N9-C4	-5.29	104.28	106.40
26	BB	559	G	N1-C2-N3	-5.29	120.72	123.90
26	BB	710	U	C4'-C3'-C2'	-5.29	97.31	102.60
26	BB	839	U	N3-C4-C5	5.29	117.78	114.60
26	BB	1000	A	C6-N1-C2	5.29	121.78	118.60
26	BB	1269	A	C6-C5-N7	-5.29	128.59	132.30
26	BB	1340	U	C5-C6-N1	-5.29	120.05	122.70
26	BB	1645	G	C5-C6-O6	5.29	131.78	128.60
26	BB	1845	G	C5-N7-C8	-5.29	101.65	104.30
26	BB	1880	U	C1'-O4'-C4'	-5.29	105.67	109.90
26	BB	1903	G	N3-C2-N2	-5.29	116.19	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2110	G	O4'-C4'-C3'	5.29	110.33	106.10
26	BB	2120	G	N9-C4-C5	5.29	107.52	105.40
26	BB	2357	G	N1-C6-O6	-5.29	116.72	119.90
26	BB	2538	C	C1'-O4'-C4'	-5.29	105.67	109.90
26	BB	2703	C	C2-N3-C4	-5.29	117.25	119.90
1	AA	449	G	N3-C4-N9	5.29	129.18	126.00
1	AA	1205	U	C1'-O4'-C4'	-5.29	105.67	109.90
3	AC	41	A	N1-C2-N3	-5.29	126.65	129.30
6	AF	71	ARG	NH1-CZ-NH2	5.29	125.22	119.40
9	AI	38	ARG	CD-NE-CZ	5.29	131.01	123.60
15	AO	44	PRO	CA-N-CD	-5.29	104.09	111.50
25	BA	6	G	N9-C4-C5	-5.29	103.28	105.40
25	BA	32	U	C1'-O4'-C4'	-5.29	105.67	109.90
26	BB	1426	G	C2-N3-C4	-5.29	109.25	111.90
26	BB	1564	C	N3-C4-C5	-5.29	119.78	121.90
26	BB	1718	G	N3-C2-N2	5.29	123.60	119.90
26	BB	1747	U	C3'-C2'-C1'	5.29	105.73	101.50
1	AA	180	U	C5-C6-N1	-5.29	120.06	122.70
1	AA	676	A	N3-C4-C5	-5.29	123.10	126.80
1	AA	1176	A	C4-C5-N7	5.29	113.34	110.70
1	AA	1255	G	N3-C2-N2	5.29	123.60	119.90
26	BB	207	A	N9-C4-C5	5.29	107.92	105.80
26	BB	965	C	N3-C2-O2	-5.29	118.20	121.90
26	BB	1393	A	C4-C5-N7	-5.29	108.06	110.70
26	BB	1831	G	C4-C5-N7	-5.29	108.68	110.80
26	BB	2460	U	O4'-C1'-N1	5.29	112.43	108.20
26	BB	2564	A	C2-N3-C4	5.29	113.25	110.60
26	BB	2707	U	C5-C4-O4	-5.29	122.73	125.90
1	AA	192	A	C6-N1-C2	-5.29	115.43	118.60
1	AA	238	A	O4'-C1'-N9	5.29	112.43	108.20
1	AA	859	G	N9-C1'-C2'	-5.29	106.18	112.00
1	AA	1463	U	C4'-C3'-C2'	-5.29	97.31	102.60
1	AA	1526	G	C5'-C4'-O4'	5.29	115.45	109.10
26	BB	79	C	C5-C6-N1	5.29	123.64	121.00
26	BB	232	G	P-O3'-C3'	5.29	126.05	119.70
26	BB	1091	G	P-O3'-C3'	5.29	126.05	119.70
26	BB	1128	G	C8-N9-C4	-5.29	104.28	106.40
26	BB	1217	U	C5'-C4'-O4'	5.29	115.45	109.10
26	BB	1391	U	N1-C2-N3	5.29	118.07	114.90
26	BB	1394	U	N1-C2-O2	5.29	126.50	122.80
26	BB	1417	C	N3-C4-N4	5.29	121.70	118.00
26	BB	1863	G	N9-C4-C5	5.29	107.52	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2106	U	N3-C2-O2	-5.29	118.50	122.20
26	BB	2220	U	C4'-C3'-C2'	-5.29	97.31	102.60
26	BB	2375	G	C4'-C3'-C2'	-5.29	97.31	102.60
26	BB	2541	A	P-O3'-C3'	5.29	126.05	119.70
26	BB	2591	C	C4'-C3'-C2'	-5.29	97.31	102.60
26	BB	2901	C	O4'-C1'-N1	5.29	112.43	108.20
27	BC	164	ARG	NH1-CZ-NH2	5.29	125.22	119.40
28	BD	28	PRO	CA-N-CD	-5.29	104.10	111.50
26	BB	203	A	C5'-C4'-O4'	5.29	115.44	109.10
26	BB	804	A	N1-C6-N6	-5.29	115.43	118.60
26	BB	1744	A	P-O3'-C3'	5.29	126.04	119.70
1	AA	109	A	N1-C2-N3	-5.29	126.66	129.30
1	AA	616	G	C4-C5-C6	5.29	121.97	118.80
1	AA	1019	A	N9-C1'-C2'	-5.29	106.19	112.00
1	AA	1030	U	N1-C2-N3	5.29	118.07	114.90
1	AA	1473	G	C6-N1-C2	-5.29	121.93	125.10
2	AB	7	G	N3-C2-N2	-5.29	116.20	119.90
2	AB	27	C	P-O5'-C5'	5.29	129.35	120.90
2	AB	67	G	C6-C5-N7	5.29	133.57	130.40
4	AD	23	G	N1-C6-O6	-5.29	116.73	119.90
18	AR	13	GLU	OE1-CD-OE2	5.29	129.64	123.30
26	BB	60	G	N3-C4-C5	-5.29	125.96	128.60
26	BB	124	G	C6-N1-C2	-5.29	121.93	125.10
26	BB	229	C	O4'-C1'-N1	5.29	112.43	108.20
26	BB	1172	C	P-O3'-C3'	5.29	126.04	119.70
26	BB	2115	G	C5'-C4'-O4'	5.29	115.44	109.10
26	BB	2234	G	C5'-C4'-O4'	5.29	115.44	109.10
26	BB	2361	G	N1-C2-N2	5.29	120.96	116.20
26	BB	2417	C	N1-C2-O2	5.29	122.07	118.90
26	BB	2514	U	N1-C1'-C2'	-5.29	106.19	112.00
37	BM	80	ASP	CB-CG-OD2	-5.29	113.54	118.30
1	AA	155	A	N1-C6-N6	-5.28	115.43	118.60
1	AA	281	G	O3'-P-O5'	-5.28	93.96	104.00
1	AA	339	C	O4'-C4'-C3'	5.28	110.33	106.10
1	AA	350	G	N3-C4-C5	-5.28	125.96	128.60
1	AA	454	G	P-O3'-C3'	5.28	126.04	119.70
1	AA	606	G	C6-C5-N7	5.28	133.57	130.40
1	AA	736	C	N1-C2-O2	5.28	122.07	118.90
1	AA	1057	G	C4'-C3'-C2'	-5.28	97.32	102.60
1	AA	1290	G	C4-C5-N7	5.28	112.91	110.80
1	AA	1393	U	N1-C1'-C2'	-5.28	106.19	112.00
1	AA	1522	U	O4'-C4'-C3'	5.28	110.33	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	AO	30	ARG	NE-CZ-NH1	5.28	122.94	120.30
26	BB	229	C	C6-N1-C2	5.28	122.41	120.30
26	BB	2204	G	C6-N1-C2	5.28	128.27	125.10
26	BB	2531	A	C3'-C2'-C1'	5.28	105.73	101.50
1	AA	771	G	N3-C4-C5	-5.28	125.96	128.60
1	AA	1114	C	C5'-C4'-C3'	-5.28	107.55	116.00
1	AA	1248	A	O4'-C4'-C3'	5.28	110.33	106.10
2	AB	27	C	P-O3'-C3'	5.28	126.04	119.70
2	AB	53	G	N7-C8-N9	5.28	115.74	113.10
25	BA	43	C	C2-N3-C4	5.28	122.54	119.90
26	BB	1433	A	N7-C8-N9	5.28	116.44	113.80
26	BB	2309	A	C5-C6-N6	5.28	127.92	123.70
26	BB	2537	U	O4'-C1'-N1	5.28	112.42	108.20
48	BX	57	TYR	CG-CD1-CE1	-5.28	117.07	121.30
51	B0	56	LEU	CB-CG-CD2	5.28	119.98	111.00
1	AA	46	G	N9-C1'-C2'	-5.28	106.19	112.00
1	AA	139	A	O4'-C1'-N9	5.28	112.42	108.20
1	AA	181	A	N1-C2-N3	-5.28	126.66	129.30
1	AA	380	G	N1-C2-N2	5.28	120.95	116.20
1	AA	437	U	C5-C6-N1	5.28	125.34	122.70
1	AA	452	A	C5-C6-N1	5.28	120.34	117.70
1	AA	842	U	O4'-C1'-N1	5.28	112.42	108.20
1	AA	969	A	C8-N9-C4	-5.28	103.69	105.80
1	AA	1006	G	C5-C6-O6	-5.28	125.43	128.60
1	AA	1042	A	C3'-C2'-C1'	-5.28	97.28	101.50
1	AA	1073	U	C5-C4-O4	-5.28	122.73	125.90
1	AA	1145	A	C5-N7-C8	-5.28	101.26	103.90
1	AA	1287	A	N1-C6-N6	5.28	121.77	118.60
1	AA	1312	G	C5-C6-N1	5.28	114.14	111.50
1	AA	1535	C	N1-C2-N3	-5.28	115.50	119.20
2	AB	50	G	N3-C2-N2	-5.28	116.20	119.90
26	BB	544	C	N3-C2-O2	-5.28	118.20	121.90
26	BB	777	G	C5-N7-C8	-5.28	101.66	104.30
26	BB	811	U	O4'-C4'-C3'	5.28	110.33	106.10
26	BB	860	U	O4'-C1'-N1	5.28	112.42	108.20
26	BB	1799	G	C5-C6-O6	-5.28	125.43	128.60
26	BB	1920	C	C1'-O4'-C4'	-5.28	105.68	109.90
26	BB	2252	G	C4-C5-C6	5.28	121.97	118.80
26	BB	2676	C	C6-N1-C2	-5.28	118.19	120.30
26	BB	2722	G	C1'-O4'-C4'	5.28	114.12	109.90
26	BB	2811	G	N3-C4-C5	-5.28	125.96	128.60
30	BF	19	PHE	CB-CG-CD2	5.28	124.50	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	64	G	C3'-C2'-C1'	5.28	105.72	101.50
1	AA	968	A	N1-C6-N6	-5.28	115.43	118.60
4	AD	51	U	P-O3'-C3'	5.28	126.03	119.70
26	BB	2	G	O4'-C1'-N9	5.28	112.42	108.20
26	BB	608	A	C5-N7-C8	-5.28	101.26	103.90
26	BB	1021	A	C4'-C3'-C2'	-5.28	97.32	102.60
26	BB	2627	G	N3-C4-C5	-5.28	125.96	128.60
1	AA	40	C	C5-C4-N4	-5.28	116.51	120.20
1	AA	119	A	C3'-C2'-C1'	5.28	105.72	101.50
1	AA	191	G	C5-C6-O6	5.28	131.77	128.60
1	AA	296	U	N3-C4-C5	5.28	117.77	114.60
1	AA	457	G	N3-C2-N2	5.28	123.59	119.90
1	AA	600	A	C5-C6-N1	-5.28	115.06	117.70
1	AA	606	G	C5-C6-O6	-5.28	125.43	128.60
1	AA	677	U	N3-C2-O2	-5.28	118.51	122.20
1	AA	1197	A	C5-N7-C8	-5.28	101.26	103.90
26	BB	317	G	C3'-C2'-C1'	5.28	105.72	101.50
26	BB	572	A	N1-C6-N6	5.28	121.77	118.60
26	BB	1823	G	C6-C5-N7	-5.28	127.23	130.40
26	BB	2249	U	N3-C4-O4	5.28	123.09	119.40
26	BB	2336	A	P-O3'-C3'	5.28	126.03	119.70
26	BB	2383	G	N3-C4-C5	-5.28	125.96	128.60
56	B5	27	GLY	O-C-N	-5.28	114.26	122.70
1	AA	41	G	N9-C1'-C2'	-5.28	106.20	112.00
1	AA	768	A	C5-N7-C8	-5.28	101.26	103.90
25	BA	16	G	C6-N1-C2	-5.28	121.94	125.10
25	BA	63	C	N3-C4-N4	5.28	121.69	118.00
26	BB	675	A	P-O3'-C3'	5.28	126.03	119.70
26	BB	952	G	N3-C4-N9	-5.28	122.83	126.00
26	BB	1260	A	C5-N7-C8	-5.28	101.26	103.90
26	BB	1360	G	P-O5'-C5'	5.28	129.34	120.90
26	BB	1874	C	C4'-C3'-C2'	-5.28	97.33	102.60
26	BB	1891	G	N9-C4-C5	5.28	107.51	105.40
26	BB	2800	A	N9-C1'-C2'	-5.28	106.20	112.00
1	AA	912	C	N3-C4-C5	5.27	124.01	121.90
1	AA	1002	G	C6-N1-C2	-5.27	121.94	125.10
25	BA	99	A	C5-C6-N6	5.27	127.92	123.70
26	BB	404	A	C5'-C4'-O4'	-5.27	102.77	109.10
26	BB	614	A	C5'-C4'-C3'	-5.27	107.56	116.00
26	BB	1260	A	C5-C6-N1	5.27	120.34	117.70
26	BB	1545	A	N3-C4-N9	-5.27	123.18	127.40
26	BB	2108	A	N7-C8-N9	5.27	116.44	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	238	A	N3-C4-N9	5.27	131.62	127.40
1	AA	744	C	C2'-C3'-O3'	5.27	122.14	113.70
1	AA	845	A	C6-N1-C2	-5.27	115.44	118.60
1	AA	874	G	N7-C8-N9	5.27	115.74	113.10
1	AA	937	A	O4'-C1'-N9	5.27	112.42	108.20
3	AC	34	U	C6-N1-C2	-5.27	117.84	121.00
6	AF	153	SER	N-CA-CB	-5.27	102.59	110.50
25	BA	57	A	O3'-P-O5'	-5.27	93.98	104.00
26	BB	595	C	N1-C2-O2	5.27	122.06	118.90
26	BB	607	U	N3-C2-O2	5.27	125.89	122.20
26	BB	663	G	N1-C2-N2	5.27	120.94	116.20
26	BB	859	G	C8-N9-C4	-5.27	104.29	106.40
26	BB	896	A	O4'-C1'-C2'	-5.27	100.53	105.80
26	BB	993	G	C6-C5-N7	5.27	133.56	130.40
26	BB	993	G	O4'-C1'-N9	5.27	112.42	108.20
26	BB	1640	A	C5'-C4'-O4'	5.27	115.43	109.10
26	BB	1882	U	C5-C4-O4	5.27	129.06	125.90
26	BB	2146	C	C6-N1-C1'	-5.27	114.47	120.80
26	BB	2809	A	C2-N3-C4	5.27	113.24	110.60
39	BO	93	VAL	CA-CB-CG1	5.27	118.81	110.90
48	BX	77	VAL	CA-CB-CG2	-5.27	102.99	110.90
1	AA	1052	U	N3-C4-C5	5.27	117.76	114.60
1	AA	1143	G	N3-C4-C5	-5.27	125.96	128.60
1	AA	1450	U	C5-C4-O4	5.27	129.06	125.90
25	BA	65	U	C4-C5-C6	5.27	122.86	119.70
26	BB	23	G	N9-C4-C5	5.27	107.51	105.40
26	BB	98	G	N9-C4-C5	5.27	107.51	105.40
26	BB	643	A	N9-C4-C5	5.27	107.91	105.80
26	BB	2095	A	O4'-C4'-C3'	5.27	110.32	106.10
26	BB	2711	A	C4'-C3'-C2'	-5.27	97.33	102.60
26	BB	2725	A	C4-C5-C6	-5.27	114.36	117.00
1	AA	445	G	N9-C1'-C2'	-5.27	106.20	112.00
1	AA	462	G	C5-C6-N1	5.27	114.14	111.50
1	AA	1071	C	C1'-O4'-C4'	-5.27	105.68	109.90
1	AA	1240	U	C4-C5-C6	-5.27	116.54	119.70
1	AA	1454	G	C5-C6-O6	-5.27	125.44	128.60
1	AA	1523	G	N9-C4-C5	5.27	107.51	105.40
12	AL	46	VAL	O-C-N	5.27	131.13	122.70
26	BB	45	G	C8-N9-C1'	5.27	133.85	127.00
26	BB	52	A	C5-C6-N1	-5.27	115.07	117.70
26	BB	215	G	O4'-C4'-C3'	-5.27	98.73	104.00
26	BB	885	C	C6-N1-C1'	-5.27	114.48	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1185	G	C2-N3-C4	5.27	114.53	111.90
26	BB	1312	U	C5-C4-O4	-5.27	122.74	125.90
26	BB	1623	G	N3-C4-N9	-5.27	122.84	126.00
26	BB	1687	G	C5'-C4'-O4'	5.27	115.42	109.10
26	BB	1741	C	O4'-C4'-C3'	5.27	110.31	106.10
26	BB	1919	A	N9-C4-C5	-5.27	103.69	105.80
26	BB	2344	U	N1-C2-O2	5.27	126.49	122.80
26	BB	2655	G	C4-C5-N7	5.27	112.91	110.80
26	BB	2787	C	P-O3'-C3'	5.27	126.02	119.70
32	BH	156	TYR	CG-CD2-CE2	-5.27	117.08	121.30
1	AA	230	G	N7-C8-N9	5.27	115.73	113.10
1	AA	548	G	C4-C5-C6	5.27	121.96	118.80
1	AA	553	A	N9-C4-C5	5.27	107.91	105.80
1	AA	864	A	C1'-O4'-C4'	-5.27	105.69	109.90
1	AA	949	A	N1-C2-N3	-5.27	126.67	129.30
1	AA	1009	U	O4'-C1'-N1	5.27	112.41	108.20
1	AA	1462	C	C5-C4-N4	5.27	123.89	120.20
1	AA	1467	C	C4-C5-C6	-5.27	114.77	117.40
1	AA	1473	G	C8-N9-C1'	5.27	133.85	127.00
6	AF	126	ARG	CD-NE-CZ	5.27	130.97	123.60
21	AU	9	PHE	CG-CD1-CE1	-5.27	115.00	120.80
22	AV	31	ARG	NE-CZ-NH2	-5.27	117.67	120.30
26	BB	509	C	O5'-P-OP2	-5.27	100.96	105.70
26	BB	987	C	O4'-C1'-N1	5.27	112.41	108.20
26	BB	1484	U	C2-N3-C4	-5.27	123.84	127.00
26	BB	2139	U	C5-C4-O4	-5.27	122.74	125.90
26	BB	2508	G	C6-C5-N7	-5.27	127.24	130.40
26	BB	2511	U	P-O3'-C3'	5.27	126.02	119.70
26	BB	2638	G	C2-N3-C4	5.27	114.53	111.90
26	BB	2638	G	N3-C4-C5	-5.27	125.97	128.60
26	BB	2852	G	N3-C4-N9	5.27	129.16	126.00
45	BU	17	VAL	CA-CB-CG2	-5.27	103.00	110.90
1	AA	14	U	N3-C2-O2	-5.27	118.51	122.20
1	AA	67	C	C4'-C3'-C2'	-5.27	97.33	102.60
1	AA	482	A	N1-C2-N3	5.27	131.93	129.30
26	BB	392	U	C3'-C2'-C1'	5.27	105.71	101.50
26	BB	452	G	N3-C4-C5	-5.27	125.97	128.60
26	BB	1493	C	C6-N1-C2	-5.27	118.19	120.30
26	BB	1590	A	O4'-C4'-C3'	5.27	110.31	106.10
26	BB	1766	G	C5-C6-O6	-5.27	125.44	128.60
26	BB	2654	A	N3-C4-N9	5.27	131.61	127.40
40	BP	64	ARG	NE-CZ-NH2	-5.27	117.67	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	164	G	C5'-C4'-O4'	5.26	115.42	109.10
1	AA	323	U	C4'-C3'-C2'	-5.26	97.34	102.60
1	AA	738	C	N1-C2-O2	5.26	122.06	118.90
1	AA	768	A	N1-C6-N6	-5.26	115.44	118.60
1	AA	860	A	O4'-C1'-N9	5.26	112.41	108.20
1	AA	915	A	C5-C6-N6	-5.26	119.49	123.70
1	AA	980	C	C5-C6-N1	5.26	123.63	121.00
26	BB	918	A	C3'-C2'-C1'	-5.26	97.29	101.50
26	BB	1299	G	C4'-C3'-C2'	5.26	107.86	102.60
26	BB	1375	U	N1-C2-N3	5.26	118.06	114.90
26	BB	1388	G	O4'-C4'-C3'	5.26	110.31	106.10
26	BB	1845	G	C5-C6-O6	-5.26	125.44	128.60
26	BB	1860	G	C4-C5-C6	-5.26	115.64	118.80
26	BB	1985	C	N1-C2-N3	-5.26	115.52	119.20
26	BB	2010	G	C2-N3-C4	5.26	114.53	111.90
26	BB	2093	G	N1-C2-N2	5.26	120.94	116.20
26	BB	2222	C	N3-C4-C5	5.26	124.01	121.90
26	BB	2270	A	O4'-C1'-C2'	-5.26	100.53	105.80
26	BB	2708	G	P-O5'-C5'	5.26	129.32	120.90
26	BB	2817	U	N3-C2-O2	-5.26	118.52	122.20
26	BB	2892	G	C6-N1-C2	-5.26	121.94	125.10
1	AA	345	C	C6-N1-C2	-5.26	118.19	120.30
1	AA	390	U	C6-N1-C2	-5.26	117.84	121.00
1	AA	757	U	C5-C6-N1	-5.26	120.07	122.70
1	AA	1134	G	C6-N1-C2	-5.26	121.94	125.10
3	AC	43	U	O4'-C4'-C3'	5.26	110.31	106.10
13	AM	84	VAL	CG1-CB-CG2	-5.26	102.48	110.90
25	BA	88	C	C5'-C4'-O4'	5.26	115.42	109.10
26	BB	1303	G	N7-C8-N9	-5.26	110.47	113.10
26	BB	1416	G	C1'-O4'-C4'	-5.26	105.69	109.90
26	BB	1989	G	C8-N9-C4	-5.26	104.30	106.40
26	BB	2750	A	N1-C2-N3	-5.26	126.67	129.30
36	BL	75	TYR	CB-CG-CD2	5.26	124.16	121.00
1	AA	167	A	N9-C1'-C2'	-5.26	106.21	112.00
1	AA	882	C	C6-N1-C2	5.26	122.41	120.30
1	AA	1084	G	C5-C6-O6	5.26	131.76	128.60
1	AA	1227	A	C5-C6-N6	5.26	127.91	123.70
26	BB	405	U	C6-N1-C2	-5.26	117.84	121.00
26	BB	549	G	N1-C2-N2	5.26	120.94	116.20
26	BB	1095	A	N3-C4-N9	-5.26	123.19	127.40
26	BB	1109	C	N3-C4-N4	5.26	121.68	118.00
26	BB	1146	C	P-O3'-C3'	5.26	126.01	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1216	G	C2-N3-C4	-5.26	109.27	111.90
26	BB	1635	A	O4'-C4'-C3'	5.26	110.31	106.10
26	BB	1755	A	C1'-O4'-C4'	-5.26	105.69	109.90
26	BB	1846	G	N1-C2-N3	-5.26	120.74	123.90
26	BB	2099	U	C5-C4-O4	-5.26	122.74	125.90
26	BB	2305	U	C5'-C4'-O4'	5.26	115.42	109.10
35	BK	37	PHE	CB-CG-CD1	-5.26	117.12	120.80
57	B6	44	ARG	NH1-CZ-NH2	-5.26	113.61	119.40
1	AA	235	C	C6-N1-C2	5.26	122.40	120.30
1	AA	586	C	C1'-O4'-C4'	-5.26	105.69	109.90
1	AA	652	U	N3-C4-C5	-5.26	111.44	114.60
1	AA	694	A	C5-C6-N1	5.26	120.33	117.70
1	AA	724	G	N1-C2-N3	-5.26	120.74	123.90
1	AA	844	G	N1-C2-N3	5.26	127.06	123.90
1	AA	1094	G	O5'-C5'-C4'	5.26	121.69	111.70
1	AA	1351	U	C4-C5-C6	5.26	122.86	119.70
1	AA	1388	C	O5'-P-OP2	-5.26	100.97	105.70
1	AA	1477	U	C5'-C4'-O4'	5.26	115.41	109.10
26	BB	210	C	C5-C4-N4	-5.26	116.52	120.20
26	BB	295	G	N9-C4-C5	5.26	107.50	105.40
26	BB	381	G	C5'-C4'-C3'	-5.26	107.59	116.00
26	BB	862	G	C4'-C3'-C2'	-5.26	97.34	102.60
26	BB	916	G	C2-N3-C4	5.26	114.53	111.90
26	BB	1395	A	N3-C4-N9	-5.26	123.19	127.40
26	BB	2011	U	C3'-C2'-C1'	5.26	105.71	101.50
26	BB	2162	G	N3-C4-C5	-5.26	125.97	128.60
26	BB	2454	G	C5'-C4'-O4'	5.26	115.41	109.10
26	BB	2729	G	N1-C6-O6	5.26	123.06	119.90
1	AA	399	G	C2-N3-C4	5.26	114.53	111.90
1	AA	858	G	C5'-C4'-O4'	5.26	115.41	109.10
1	AA	941	G	C5-N7-C8	-5.26	101.67	104.30
4	AD	2	G	C5'-C4'-C3'	-5.26	107.59	116.00
26	BB	901	C	C5-C6-N1	-5.26	118.37	121.00
26	BB	1327	A	C3'-C2'-C1'	-5.26	97.29	101.50
1	AA	85	U	C6-N1-C1'	-5.26	113.84	121.20
1	AA	517	G	C5'-C4'-O4'	5.26	115.41	109.10
1	AA	1177	G	N3-C4-C5	-5.26	125.97	128.60
1	AA	1277	C	C4-C5-C6	5.26	120.03	117.40
1	AA	1354	U	C5'-C4'-O4'	5.26	115.41	109.10
1	AA	1395	C	C5-C6-N1	5.26	123.63	121.00
25	BA	68	C	C4'-C3'-C2'	-5.26	97.34	102.60
26	BB	49	A	N9-C4-C5	5.26	107.90	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	313	G	C4'-C3'-C2'	-5.26	97.34	102.60
26	BB	601	C	C6-N1-C2	-5.26	118.20	120.30
26	BB	606	U	N1-C2-N3	5.26	118.05	114.90
26	BB	684	G	C6-N1-C2	5.26	128.25	125.10
26	BB	769	U	C5'-C4'-O4'	5.26	115.41	109.10
26	BB	1149	G	C4'-C3'-C2'	-5.26	97.34	102.60
26	BB	1216	G	C8-N9-C4	5.26	108.50	106.40
26	BB	1326	U	C5-C4-O4	-5.26	122.75	125.90
26	BB	1866	A	C5-C6-N1	5.26	120.33	117.70
26	BB	2013	A	N7-C8-N9	-5.26	111.17	113.80
26	BB	2392	A	O5'-P-OP1	5.26	117.01	110.70
26	BB	2726	A	N7-C8-N9	5.26	116.43	113.80
26	BB	2852	G	O4'-C1'-N9	5.26	112.41	108.20
34	BJ	40	LEU	CB-CG-CD2	5.26	119.94	111.00
1	AA	1370	G	N1-C2-N3	-5.25	120.75	123.90
26	BB	687	C	C3'-C2'-C1'	-5.25	97.30	101.50
26	BB	1270	C	N3-C4-C5	5.25	124.00	121.90
26	BB	2159	G	C1'-O4'-C4'	-5.25	105.70	109.90
1	AA	499	A	C4'-C3'-C2'	-5.25	97.35	102.60
1	AA	1149	C	O4'-C1'-C2'	-5.25	100.55	105.80
1	AA	1282	C	N1-C2-N3	-5.25	115.52	119.20
24	AX	32	ARG	CD-NE-CZ	5.25	130.96	123.60
25	BA	66	A	C6-N1-C2	5.25	121.75	118.60
26	BB	265	A	C4-C5-C6	-5.25	114.37	117.00
26	BB	502	A	P-O3'-C3'	5.25	126.00	119.70
26	BB	1218	G	N1-C6-O6	-5.25	116.75	119.90
26	BB	1333	G	C4-C5-C6	5.25	121.95	118.80
26	BB	1466	U	C2-N3-C4	-5.25	123.85	127.00
26	BB	1482	G	N1-C6-O6	-5.25	116.75	119.90
26	BB	1675	C	C4-C5-C6	-5.25	114.77	117.40
26	BB	1773	A	C4'-C3'-C2'	-5.25	97.35	102.60
26	BB	1990	C	C1'-O4'-C4'	5.25	114.10	109.90
26	BB	2509	G	C6-N1-C2	-5.25	121.95	125.10
26	BB	2568	U	C5'-C4'-O4'	5.25	115.41	109.10
34	BJ	111	ALA	CB-CA-C	5.25	117.98	110.10
45	BU	95	ARG	CB-CG-CD	5.25	125.26	111.60
1	AA	363	A	C4-C5-N7	5.25	113.33	110.70
1	AA	841	C	N1-C1'-C2'	-5.25	106.22	112.00
1	AA	885	G	C6-C5-N7	-5.25	127.25	130.40
1	AA	1092	A	C5-N7-C8	-5.25	101.28	103.90
1	AA	1222	G	N3-C4-C5	-5.25	125.97	128.60
1	AA	1397	C	P-O3'-C3'	5.25	126.00	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	30	U	C4'-C3'-C2'	-5.25	97.35	102.60
26	BB	153	U	C6-N1-C2	-5.25	117.85	121.00
26	BB	221	A	N3-C4-C5	-5.25	123.12	126.80
26	BB	393	C	C4'-C3'-O3'	5.25	123.50	113.00
26	BB	669	G	N1-C2-N2	5.25	120.93	116.20
26	BB	675	A	C4'-C3'-C2'	-5.25	97.35	102.60
26	BB	1030	C	O4'-C1'-N1	5.25	112.40	108.20
26	BB	1069	A	C3'-C2'-C1'	5.25	105.70	101.50
26	BB	1286	A	P-O3'-C3'	5.25	126.00	119.70
26	BB	1315	C	P-O3'-C3'	5.25	126.00	119.70
26	BB	1499	C	C5-C6-N1	5.25	123.63	121.00
26	BB	1548	A	C5-N7-C8	5.25	106.53	103.90
26	BB	1660	G	C4-C5-N7	5.25	112.90	110.80
26	BB	1714	U	C6-N1-C1'	-5.25	113.85	121.20
26	BB	2454	G	C4'-C3'-C2'	-5.25	97.35	102.60
26	BB	2557	G	N1-C2-N2	5.25	120.93	116.20
39	BO	59	ARG	NE-CZ-NH1	5.25	122.93	120.30
41	BQ	64	TYR	CZ-CE2-CD2	5.25	124.53	119.80
41	BQ	99	TYR	CB-CG-CD1	-5.25	117.85	121.00
1	AA	1457	G	C5-N7-C8	-5.25	101.67	104.30
25	BA	104	A	C1'-O4'-C4'	-5.25	105.70	109.90
26	BB	68	G	N3-C4-C5	5.25	131.22	128.60
26	BB	585	G	C5-C6-O6	-5.25	125.45	128.60
26	BB	1042	G	N1-C2-N3	-5.25	120.75	123.90
26	BB	2427	C	O5'-C5'-C4'	5.25	121.67	111.70
26	BB	2870	C	C4'-C3'-C2'	5.25	107.85	102.60
1	AA	962	C	N3-C4-C5	5.25	124.00	121.90
1	AA	1284	C	N3-C4-C5	-5.25	119.80	121.90
1	AA	1520	C	N3-C2-O2	-5.25	118.23	121.90
26	BB	215	G	O4'-C1'-N9	5.25	112.40	108.20
26	BB	295	G	C5-C6-N1	5.25	114.12	111.50
26	BB	466	A	O4'-C1'-N9	5.25	112.40	108.20
26	BB	531	C	O3'-P-O5'	-5.25	94.03	104.00
26	BB	883	G	C5-C6-O6	-5.25	125.45	128.60
26	BB	1000	A	N9-C4-C5	5.25	107.90	105.80
26	BB	1346	G	C6-C5-N7	-5.25	127.25	130.40
26	BB	1466	U	C5-C6-N1	-5.25	120.08	122.70
26	BB	1494	A	C5'-C4'-O4'	5.25	115.40	109.10
26	BB	1540	G	C5-N7-C8	-5.25	101.68	104.30
26	BB	1723	G	C5-N7-C8	-5.25	101.68	104.30
26	BB	1747	U	C4-C5-C6	5.25	122.85	119.70
26	BB	1773	A	C5-N7-C8	-5.25	101.28	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1971	U	O4'-C1'-N1	5.25	112.40	108.20
26	BB	2123	G	O4'-C1'-N9	5.25	112.40	108.20
26	BB	2150	C	C2-N1-C1'	-5.25	113.03	118.80
26	BB	2271	G	C6-N1-C2	-5.25	121.95	125.10
26	BB	2651	C	P-O3'-C3'	5.25	126.00	119.70
1	AA	159	G	C3'-C2'-C1'	5.25	105.70	101.50
1	AA	597	G	O4'-C1'-N9	5.25	112.40	108.20
1	AA	794	A	C6-N1-C2	5.25	121.75	118.60
1	AA	814	A	N9-C1'-C2'	-5.25	106.23	112.00
1	AA	1178	G	C6-N1-C2	-5.25	121.95	125.10
1	AA	1304	G	C5-C6-N1	5.25	114.12	111.50
2	AB	51	G	N3-C2-N2	-5.25	116.23	119.90
10	AJ	60	ALA	N-CA-CB	-5.25	102.75	110.10
26	BB	24	G	N3-C2-N2	5.25	123.57	119.90
26	BB	271	G	N1-C2-N2	5.25	120.92	116.20
26	BB	364	C	C1'-O4'-C4'	-5.25	105.70	109.90
26	BB	1156	A	C6-C5-N7	5.25	135.97	132.30
26	BB	1431	A	C5'-C4'-O4'	5.25	115.40	109.10
26	BB	1478	G	C2-N3-C4	-5.25	109.28	111.90
26	BB	1485	U	C5-C4-O4	-5.25	122.75	125.90
26	BB	1528	A	N1-C6-N6	5.25	121.75	118.60
26	BB	1536	C	N3-C2-O2	-5.25	118.23	121.90
26	BB	1591	A	N9-C4-C5	5.25	107.90	105.80
26	BB	1613	G	C8-N9-C4	-5.25	104.30	106.40
26	BB	1706	C	O4'-C4'-C3'	5.25	110.30	106.10
26	BB	1712	U	C4'-C3'-C2'	-5.25	97.35	102.60
26	BB	2166	U	N1-C2-N3	5.25	118.05	114.90
26	BB	2542	A	N9-C4-C5	-5.25	103.70	105.80
26	BB	2689	U	C5-C6-N1	-5.25	120.08	122.70
26	BB	2698	U	N3-C4-O4	5.25	123.07	119.40
1	AA	667	G	C6-N1-C2	-5.25	121.95	125.10
4	AD	70	C	C5-C4-N4	-5.25	116.53	120.20
14	AN	57	SER	CB-CA-C	5.25	120.07	110.10
26	BB	613	A	C8-N9-C4	-5.25	103.70	105.80
26	BB	1101	U	N1-C1'-C2'	-5.25	106.23	112.00
26	BB	1744	A	N9-C1'-C2'	-5.25	106.23	112.00
26	BB	2277	G	O4'-C1'-C2'	5.25	112.32	107.60
26	BB	2777	G	N3-C4-N9	5.25	129.15	126.00
26	BB	2836	U	C4-C5-C6	5.25	122.85	119.70
1	AA	164	G	C4'-C3'-C2'	-5.24	97.36	102.60
1	AA	221	C	C5-C6-N1	5.24	123.62	121.00
1	AA	290	C	N1-C2-O2	5.24	122.05	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	299	G	N1-C2-N3	-5.24	120.75	123.90
1	AA	643	C	C5'-C4'-O4'	5.24	115.39	109.10
1	AA	890	G	C5-N7-C8	-5.24	101.68	104.30
1	AA	890	G	N3-C4-N9	5.24	129.15	126.00
1	AA	970	C	N1-C2-O2	5.24	122.05	118.90
1	AA	1258	G	O5'-C5'-C4'	5.24	121.66	111.70
1	AA	1363	A	C5-C6-N1	-5.24	115.08	117.70
6	AF	200	TRP	CE2-CD2-CE3	-5.24	112.41	118.70
7	AG	75	TYR	CB-CG-CD1	-5.24	117.85	121.00
26	BB	368	A	C3'-C2'-C1'	-5.24	97.31	101.50
26	BB	454	A	C2-N3-C4	5.24	113.22	110.60
26	BB	607	U	C4'-C3'-C2'	-5.24	97.36	102.60
26	BB	641	U	N3-C2-O2	-5.24	118.53	122.20
26	BB	758	C	C2-N3-C4	5.24	122.52	119.90
26	BB	861	A	C4-C5-C6	-5.24	114.38	117.00
26	BB	1072	C	C5-C4-N4	5.24	123.87	120.20
26	BB	1316	U	C2-N3-C4	-5.24	123.85	127.00
26	BB	1373	A	N1-C2-N3	-5.24	126.68	129.30
26	BB	1610	A	C5-C6-N6	5.24	127.89	123.70
26	BB	1642	G	N3-C4-N9	-5.24	122.85	126.00
26	BB	1842	G	C4'-C3'-C2'	-5.24	97.36	102.60
26	BB	2294	G	C1'-O4'-C4'	-5.24	105.70	109.90
26	BB	2296	U	C5-C4-O4	5.24	129.05	125.90
26	BB	2326	C	N1-C2-N3	-5.24	115.53	119.20
26	BB	2341	G	N3-C4-C5	-5.24	125.98	128.60
26	BB	2481	G	C5'-C4'-C3'	-5.24	107.61	116.00
26	BB	2698	U	N3-C2-O2	-5.24	118.53	122.20
1	AA	1051	C	C6-N1-C1'	5.24	127.09	120.80
1	AA	1453	G	C4-C5-C6	5.24	121.94	118.80
4	AD	30	G	N3-C4-N9	5.24	129.15	126.00
26	BB	1137	G	C4'-C3'-C2'	-5.24	97.36	102.60
26	BB	1589	U	C2-N3-C4	-5.24	123.86	127.00
26	BB	1591	A	C4-C5-C6	5.24	119.62	117.00
26	BB	2287	A	O4'-C4'-C3'	5.24	110.29	106.10
26	BB	2312	U	C5'-C4'-O4'	-5.24	102.81	109.10
1	AA	48	C	OP2-P-O3'	5.24	116.73	105.20
1	AA	268	U	C5'-C4'-O4'	5.24	115.39	109.10
1	AA	535	A	N1-C6-N6	5.24	121.74	118.60
1	AA	1390	U	C6-N1-C2	-5.24	117.86	121.00
2	AB	42	G	O4'-C1'-N9	5.24	112.39	108.20
4	AD	19	G	C4'-C3'-C2'	-5.24	97.36	102.60
25	BA	112	G	N1-C6-O6	-5.24	116.76	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	138	U	O4'-C1'-C2'	-5.24	100.56	105.80
26	BB	145	C	C3'-C2'-C1'	-5.24	97.31	101.50
26	BB	196	A	C1'-O4'-C4'	-5.24	105.71	109.90
26	BB	696	G	N3-C2-N2	-5.24	116.23	119.90
26	BB	1444	G	N3-C2-N2	-5.24	116.23	119.90
26	BB	2109	U	C6-N1-C2	-5.24	117.86	121.00
26	BB	2391	G	N1-C2-N3	5.24	127.05	123.90
26	BB	2631	G	N1-C2-N2	5.24	120.92	116.20
1	AA	217	C	C2-N3-C4	-5.24	117.28	119.90
1	AA	1167	A	P-O3'-C3'	5.24	125.99	119.70
1	AA	1482	G	C4-C5-C6	5.24	121.94	118.80
4	AD	54	G	C8-N9-C4	5.24	108.50	106.40
26	BB	17	G	C5-C6-N1	5.24	114.12	111.50
26	BB	64	A	P-O3'-C3'	5.24	125.99	119.70
26	BB	125	A	C8-N9-C4	-5.24	103.70	105.80
26	BB	136	G	C4'-C3'-C2'	-5.24	97.36	102.60
26	BB	154	U	C5-C6-N1	-5.24	120.08	122.70
26	BB	303	G	C3'-C2'-C1'	-5.24	97.31	101.50
26	BB	537	G	C8-N9-C1'	5.24	133.81	127.00
26	BB	579	G	O4'-C1'-C2'	5.24	112.31	107.60
26	BB	768	G	O5'-P-OP2	-5.24	100.98	105.70
26	BB	873	C	N3-C2-O2	-5.24	118.23	121.90
26	BB	1777	U	C4-C5-C6	5.24	122.84	119.70
26	BB	1826	G	C5'-C4'-O4'	5.24	115.39	109.10
26	BB	1997	C	C5-C4-N4	-5.24	116.53	120.20
26	BB	2467	C	O3'-P-O5'	-5.24	94.05	104.00
26	BB	2536	G	C4'-C3'-C2'	-5.24	97.36	102.60
26	BB	2588	G	C2-N3-C4	5.24	114.52	111.90
31	BG	173	ASP	C-N-CA	5.24	134.80	121.70
1	AA	198	G	C4'-C3'-C2'	-5.24	97.36	102.60
1	AA	927	G	N7-C8-N9	-5.24	110.48	113.10
1	AA	1503	A	N3-C4-C5	-5.24	123.13	126.80
4	AD	26	C	P-O3'-C3'	5.24	125.98	119.70
4	AD	48	U	O4'-C1'-C2'	5.24	112.31	107.60
26	BB	159	G	C5-C6-N1	5.24	114.12	111.50
26	BB	286	U	C4'-C3'-C2'	-5.24	97.36	102.60
26	BB	688	U	N1-C2-N3	5.24	118.04	114.90
26	BB	1102	C	C5'-C4'-C3'	-5.24	107.62	116.00
26	BB	1605	C	C6-N1-C2	5.24	122.39	120.30
26	BB	2002	G	C4'-C3'-C2'	-5.24	97.36	102.60
26	BB	2578	G	C6-N1-C2	-5.24	121.96	125.10
1	AA	237	G	C2-N3-C4	5.24	114.52	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	373	A	C5-N7-C8	-5.24	101.28	103.90
1	AA	443	C	C5-C6-N1	5.24	123.62	121.00
1	AA	1008	U	N1-C2-N3	5.24	118.04	114.90
1	AA	1223	C	C2-N3-C4	-5.24	117.28	119.90
4	AD	5	G	C8-N9-C1'	5.24	133.81	127.00
10	AJ	72	VAL	CA-CB-CG1	5.24	118.75	110.90
12	AL	37	TYR	CD1-CG-CD2	5.24	123.66	117.90
26	BB	298	G	N1-C2-N3	-5.24	120.76	123.90
26	BB	459	U	C5-C6-N1	-5.24	120.08	122.70
26	BB	782	A	N9-C4-C5	-5.24	103.70	105.80
26	BB	841	G	C5-C6-O6	5.24	131.74	128.60
26	BB	886	A	C5'-C4'-C3'	-5.24	107.62	116.00
26	BB	1015	U	N1-C2-O2	5.24	126.47	122.80
26	BB	1151	A	N1-C2-N3	-5.24	126.68	129.30
26	BB	1242	U	C2-N3-C4	-5.24	123.86	127.00
26	BB	2423	U	N3-C4-C5	5.24	117.74	114.60
26	BB	2848	G	C3'-C2'-C1'	-5.24	97.31	101.50
1	AA	554	A	C5-N7-C8	5.23	106.52	103.90
1	AA	647	C	C2-N3-C4	5.23	122.52	119.90
1	AA	689	C	C2-N3-C4	-5.23	117.28	119.90
1	AA	842	U	C5-C4-O4	-5.23	122.76	125.90
3	AC	51	C	O4'-C1'-N1	5.23	112.39	108.20
26	BB	180	G	O4'-C4'-C3'	-5.23	98.77	104.00
26	BB	1541	C	C3'-C2'-C1'	5.23	105.69	101.50
26	BB	2233	U	O4'-C1'-N1	5.23	112.39	108.20
26	BB	2334	U	C5-C4-O4	-5.23	122.76	125.90
26	BB	2340	A	C5-N7-C8	-5.23	101.28	103.90
26	BB	2349	G	C4'-C3'-O3'	5.23	123.47	113.00
26	BB	2791	G	N1-C6-O6	-5.23	116.76	119.90
37	BM	69	VAL	CA-CB-CG2	5.23	118.75	110.90
1	AA	156	C	P-O3'-C3'	5.23	125.98	119.70
1	AA	734	G	N7-C8-N9	5.23	115.72	113.10
1	AA	1275	A	C8-N9-C4	-5.23	103.71	105.80
4	AD	69	C	O4'-C1'-C2'	-5.23	100.57	105.80
26	BB	3	U	N1-C2-O2	5.23	126.46	122.80
26	BB	634	C	O4'-C1'-N1	5.23	112.39	108.20
26	BB	735	A	C5-N7-C8	-5.23	101.28	103.90
26	BB	789	A	O4'-C1'-N9	5.23	112.39	108.20
26	BB	859	G	O3'-P-O5'	-5.23	94.06	104.00
26	BB	1004	U	N1-C1'-C2'	-5.23	106.24	112.00
26	BB	1201	U	O3'-P-O5'	-5.23	94.06	104.00
26	BB	1448	G	C5-C6-N1	5.23	114.12	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1481	U	N1-C2-N3	5.23	118.04	114.90
26	BB	1572	A	N1-C2-N3	-5.23	126.68	129.30
26	BB	1622	G	N1-C6-O6	-5.23	116.76	119.90
26	BB	2461	A	C2-N3-C4	5.23	113.22	110.60
26	BB	2880	C	C3'-C2'-C1'	-5.23	97.31	101.50
1	AA	102	G	C5-C6-N1	5.23	114.11	111.50
1	AA	334	C	C2-N1-C1'	-5.23	113.05	118.80
1	AA	532	A	C4-C5-N7	-5.23	108.08	110.70
1	AA	551	U	O4'-C1'-N1	5.23	112.38	108.20
1	AA	904	U	N1-C2-O2	-5.23	119.14	122.80
1	AA	907	A	C5-C6-N1	-5.23	115.08	117.70
1	AA	962	C	C1'-O4'-C4'	-5.23	105.72	109.90
1	AA	1030	U	P-O3'-C3'	5.23	125.98	119.70
1	AA	1160	G	C8-N9-C4	-5.23	104.31	106.40
1	AA	1201	A	C5'-C4'-C3'	-5.23	107.63	116.00
1	AA	1411	C	P-O3'-C3'	5.23	125.98	119.70
1	AA	1471	U	N3-C4-O4	-5.23	115.74	119.40
2	AB	53	G	N3-C4-C5	-5.23	125.98	128.60
25	BA	56	G	N1-C6-O6	-5.23	116.76	119.90
26	BB	262	A	C6-C5-N7	5.23	135.96	132.30
26	BB	766	U	N3-C2-O2	5.23	125.86	122.20
26	BB	1021	A	C6-C5-N7	5.23	135.96	132.30
26	BB	1039	A	C8-N9-C4	-5.23	103.71	105.80
26	BB	1092	C	C5'-C4'-O4'	5.23	115.38	109.10
26	BB	1272	A	P-O3'-C3'	5.23	125.98	119.70
26	BB	1734	G	O4'-C1'-N9	5.23	112.38	108.20
26	BB	2055	C	C1'-O4'-C4'	-5.23	105.72	109.90
26	BB	2071	A	N1-C2-N3	5.23	131.91	129.30
26	BB	2228	G	N9-C4-C5	5.23	107.49	105.40
26	BB	2255	G	N7-C8-N9	5.23	115.72	113.10
26	BB	2312	U	P-O3'-C3'	5.23	125.98	119.70
26	BB	2397	G	N3-C4-N9	5.23	129.14	126.00
1	AA	236	A	C5'-C4'-O4'	5.23	115.38	109.10
1	AA	911	U	C4'-C3'-C2'	5.23	107.83	102.60
5	AE	14	HIS	N-CA-CB	-5.23	101.19	110.60
9	AI	89	VAL	CB-CA-C	5.23	121.33	111.40
25	BA	24	G	P-O3'-C3'	5.23	125.97	119.70
26	BB	553	G	N1-C2-N2	5.23	120.91	116.20
26	BB	1448	G	P-O3'-C3'	5.23	125.97	119.70
26	BB	1797	G	N7-C8-N9	5.23	115.71	113.10
26	BB	1938	A	N9-C1'-C2'	5.23	120.80	114.00
26	BB	2047	C	P-O3'-C3'	5.23	125.97	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2209	G	O4'-C1'-N9	5.23	112.38	108.20
26	BB	2221	G	C5-N7-C8	-5.23	101.69	104.30
26	BB	2236	U	C1'-O4'-C4'	5.23	114.08	109.90
26	BB	2650	U	O4'-C1'-C2'	-5.23	100.57	105.80
1	AA	573	A	C5-N7-C8	-5.23	101.29	103.90
1	AA	757	U	C4-C5-C6	5.23	122.84	119.70
1	AA	1084	G	C5-N7-C8	5.23	106.91	104.30
1	AA	1104	G	N7-C8-N9	-5.23	110.49	113.10
1	AA	1278	G	C5'-C4'-O4'	5.23	115.37	109.10
1	AA	1389	C	C4-C5-C6	5.23	120.01	117.40
7	AG	46	ARG	NE-CZ-NH1	-5.23	117.69	120.30
26	BB	1	G	C6-C5-N7	5.23	133.54	130.40
26	BB	292	U	C1'-O4'-C4'	-5.23	105.72	109.90
26	BB	660	C	O3'-P-O5'	-5.23	94.07	104.00
26	BB	1087	G	N3-C4-N9	-5.23	122.86	126.00
26	BB	1182	G	N3-C4-N9	5.23	129.14	126.00
26	BB	1519	G	C1'-O4'-C4'	5.23	114.08	109.90
26	BB	2155	U	C5-C4-O4	-5.23	122.76	125.90
26	BB	2633	G	C5-C6-N1	5.23	114.11	111.50
40	BP	120	GLU	OE1-CD-OE2	5.23	129.57	123.30
43	BS	116	LEU	CB-CG-CD2	-5.23	102.11	111.00
1	AA	200	G	C8-N9-C4	-5.23	104.31	106.40
1	AA	501	C	C6-N1-C2	-5.23	118.21	120.30
1	AA	753	A	N1-C2-N3	-5.23	126.69	129.30
1	AA	979	C	N1-C2-O2	5.23	122.04	118.90
1	AA	1255	G	C4-C5-N7	5.23	112.89	110.80
25	BA	46	A	C5'-C4'-O4'	5.23	115.37	109.10
26	BB	467	G	C1'-O4'-C4'	5.23	114.08	109.90
26	BB	1426	G	O4'-C1'-C2'	-5.23	100.57	105.80
26	BB	2022	U	N1-C2-N3	5.23	118.03	114.90
26	BB	2581	G	C4-C5-C6	5.23	121.94	118.80
47	BW	5	ARG	NE-CZ-NH1	5.23	122.91	120.30
1	AA	852	G	C2-N3-C4	5.22	114.51	111.90
1	AA	987	G	P-O3'-C3'	5.22	125.97	119.70
1	AA	1006	G	C1'-O4'-C4'	5.22	114.08	109.90
1	AA	1238	A	C5-C6-N6	-5.22	119.52	123.70
1	AA	1289	A	N1-C6-N6	-5.22	115.47	118.60
1	AA	1528	U	C2-N1-C1'	5.22	123.97	117.70
1	AA	1542	A	N9-C1'-C2'	5.22	120.79	114.00
4	AD	18	U	C5-C4-O4	5.22	129.03	125.90
4	AD	22	A	P-O3'-C3'	5.22	125.97	119.70
26	BB	21	A	C6-N1-C2	-5.22	115.47	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	30	G	C5-N7-C8	-5.22	101.69	104.30
26	BB	75	G	N1-C2-N2	5.22	120.90	116.20
26	BB	109	C	N1-C2-N3	-5.22	115.54	119.20
26	BB	255	A	C2-N3-C4	-5.22	107.99	110.60
26	BB	674	G	N3-C4-N9	-5.22	122.86	126.00
26	BB	1095	A	N9-C4-C5	5.22	107.89	105.80
26	BB	1258	U	O4'-C1'-N1	5.22	112.38	108.20
26	BB	1315	C	C3'-C2'-C1'	-5.22	97.32	101.50
26	BB	1378	A	N9-C4-C5	5.22	107.89	105.80
26	BB	1393	A	N1-C6-N6	-5.22	115.47	118.60
26	BB	1503	A	C3'-C2'-C1'	5.22	105.68	101.50
26	BB	1577	C	N1-C2-O2	5.22	122.03	118.90
26	BB	1677	A	C5-N7-C8	-5.22	101.29	103.90
26	BB	1840	G	N9-C4-C5	-5.22	103.31	105.40
26	BB	1895	C	C3'-C2'-C1'	5.22	105.68	101.50
26	BB	2642	G	C8-N9-C4	-5.22	104.31	106.40
26	BB	2849	U	N3-C4-C5	-5.22	111.47	114.60
32	BH	75	VAL	CG1-CB-CG2	-5.22	102.54	110.90
35	BK	100	ILE	CA-CB-CG2	5.22	121.35	110.90
1	AA	208	U	C5-C6-N1	-5.22	120.09	122.70
1	AA	227	G	N3-C2-N2	5.22	123.56	119.90
1	AA	378	G	C4-C5-N7	-5.22	108.71	110.80
1	AA	781	A	O5'-C5'-C4'	5.22	121.62	111.70
1	AA	1136	C	N3-C4-C5	-5.22	119.81	121.90
1	AA	1317	C	N3-C2-O2	-5.22	118.24	121.90
1	AA	1322	C	C2-N3-C4	5.22	122.51	119.90
1	AA	1349	A	N1-C6-N6	-5.22	115.47	118.60
4	AD	69	C	C3'-C2'-C1'	5.22	105.68	101.50
26	BB	234	U	C5'-C4'-C3'	5.22	124.36	116.00
26	BB	583	G	N1-C6-O6	-5.22	116.77	119.90
26	BB	1109	C	N3-C4-C5	-5.22	119.81	121.90
26	BB	1261	C	N3-C4-N4	5.22	121.66	118.00
26	BB	1406	U	C5-C6-N1	-5.22	120.09	122.70
26	BB	1758	U	C6-N1-C2	-5.22	117.87	121.00
26	BB	1988	G	C5-C6-N1	5.22	114.11	111.50
26	BB	2316	G	N3-C2-N2	5.22	123.56	119.90
26	BB	2784	U	C5-C6-N1	-5.22	120.09	122.70
26	BB	2818	U	N1-C2-N3	5.22	118.03	114.90
26	BB	2862	G	N9-C4-C5	5.22	107.49	105.40
44	BT	51	VAL	CA-CB-CG2	5.22	118.73	110.90
1	AA	652	U	O4'-C1'-C2'	-5.22	100.58	105.80
1	AA	685	G	N7-C8-N9	5.22	115.71	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	893	C	C5-C4-N4	-5.22	116.55	120.20
18	AR	20	ASP	O-C-N	5.22	131.05	122.70
25	BA	55	U	C5'-C4'-C3'	-5.22	107.65	116.00
26	BB	1168	G	C4'-C3'-C2'	5.22	107.82	102.60
26	BB	2306	C	N1-C2-N3	5.22	122.86	119.20
26	BB	2772	C	C5-C4-N4	-5.22	116.55	120.20
1	AA	457	G	N1-C2-N3	5.22	127.03	123.90
1	AA	1081	A	N9-C1'-C2'	-5.22	106.26	112.00
1	AA	1180	A	C2-N3-C4	5.22	113.21	110.60
1	AA	1297	G	C4-C5-N7	-5.22	108.71	110.80
1	AA	1300	G	OP1-P-O3'	5.22	116.69	105.20
1	AA	1348	U	N1-C2-O2	5.22	126.45	122.80
4	AD	65	G	C5'-C4'-O4'	-5.22	102.84	109.10
22	AV	47	THR	CA-CB-CG2	5.22	119.71	112.40
26	BB	403	U	C2-N3-C4	5.22	130.13	127.00
26	BB	548	G	C8-N9-C4	-5.22	104.31	106.40
26	BB	792	A	O4'-C4'-C3'	5.22	110.28	106.10
26	BB	908	C	C6-N1-C1'	-5.22	114.54	120.80
26	BB	1082	U	C5-C4-O4	5.22	129.03	125.90
26	BB	1093	G	N1-C2-N3	5.22	127.03	123.90
26	BB	1474	U	N1-C2-N3	5.22	118.03	114.90
26	BB	1489	C	C6-N1-C2	-5.22	118.21	120.30
26	BB	1770	G	C4-C5-N7	-5.22	108.71	110.80
26	BB	1798	U	N3-C2-O2	-5.22	118.55	122.20
26	BB	2143	C	C5-C6-N1	5.22	123.61	121.00
26	BB	2280	G	C2-N3-C4	-5.22	109.29	111.90
26	BB	2745	C	C5'-C4'-O4'	5.22	115.36	109.10
1	AA	729	A	N9-C4-C5	5.22	107.89	105.80
1	AA	805	C	N1-C1'-C2'	-5.22	106.26	112.00
1	AA	879	C	O4'-C1'-N1	5.22	112.37	108.20
1	AA	1316	G	C6-N1-C2	-5.22	121.97	125.10
2	AB	19	G	C2-N3-C4	5.22	114.51	111.90
26	BB	778	G	N3-C2-N2	-5.22	116.25	119.90
26	BB	973	A	C3'-C2'-C1'	5.22	105.67	101.50
26	BB	1261	C	C2-N3-C4	5.22	122.51	119.90
26	BB	1602	U	C6-N1-C2	5.22	124.13	121.00
26	BB	1819	A	N1-C2-N3	5.22	131.91	129.30
26	BB	2850	A	C4'-C3'-C2'	-5.22	97.38	102.60
43	BS	23	TYR	CZ-CE2-CD2	5.22	124.50	119.80
1	AA	322	C	C4'-C3'-C2'	-5.22	97.38	102.60
1	AA	358	U	C3'-C2'-C1'	-5.22	97.33	101.50
1	AA	432	A	N7-C8-N9	5.22	116.41	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1094	G	C6-C5-N7	5.22	133.53	130.40
1	AA	1294	G	O4'-C1'-N9	5.22	112.37	108.20
1	AA	1302	C	O3'-P-O5'	-5.22	94.09	104.00
3	AC	21	U	N1-C2-O2	5.22	126.45	122.80
26	BB	484	C	C2-N3-C4	-5.22	117.29	119.90
26	BB	783	A	N3-C4-C5	-5.22	123.15	126.80
26	BB	1266	G	N1-C6-O6	-5.22	116.77	119.90
26	BB	1299	G	O4'-C1'-N9	5.22	112.37	108.20
26	BB	1464	G	C5-C6-O6	5.22	131.73	128.60
26	BB	1535	A	C4-C5-N7	5.22	113.31	110.70
26	BB	1922	G	C4'-C3'-C2'	-5.22	97.38	102.60
26	BB	1922	G	C6-C5-N7	-5.22	127.27	130.40
26	BB	2247	A	C5-C6-N1	5.22	120.31	117.70
26	BB	2252	G	N9-C4-C5	5.22	107.49	105.40
26	BB	2548	U	C4-C5-C6	-5.22	116.57	119.70
26	BB	2755	C	C1'-O4'-C4'	5.22	114.07	109.90
26	BB	2819	G	O4'-C1'-N9	5.22	112.37	108.20
1	AA	559	A	C4-C5-C6	-5.21	114.39	117.00
1	AA	764	C	OP1-P-O3'	5.21	116.67	105.20
1	AA	862	C	N1-C2-N3	-5.21	115.55	119.20
1	AA	985	C	C4-C5-C6	-5.21	114.79	117.40
1	AA	1171	A	C5'-C4'-C3'	-5.21	107.66	116.00
3	AC	55	A	O4'-C1'-N9	5.21	112.37	108.20
6	AF	192	TYR	CB-CG-CD2	-5.21	117.87	121.00
17	AQ	23	ARG	CD-NE-CZ	5.21	130.90	123.60
26	BB	663	G	C4'-C3'-C2'	-5.21	97.39	102.60
26	BB	844	A	N1-C6-N6	5.21	121.73	118.60
26	BB	866	A	N9-C4-C5	-5.21	103.71	105.80
26	BB	1098	A	C5'-C4'-O4'	5.21	115.36	109.10
26	BB	1280	G	O4'-C1'-N9	5.21	112.37	108.20
26	BB	1316	U	N3-C2-O2	-5.21	118.55	122.20
26	BB	1497	U	C6-N1-C1'	-5.21	113.90	121.20
26	BB	1737	G	C8-N9-C4	-5.21	104.31	106.40
26	BB	1775	U	C6-N1-C2	-5.21	117.87	121.00
26	BB	1871	A	C5'-C4'-O4'	5.21	115.36	109.10
26	BB	2042	A	N1-C2-N3	-5.21	126.69	129.30
26	BB	2615	U	N3-C4-O4	5.21	123.05	119.40
38	BN	41	ARG	CA-CB-CG	5.21	124.87	113.40
1	AA	271	C	N1-C2-N3	5.21	122.85	119.20
1	AA	477	C	O4'-C1'-N1	5.21	112.37	108.20
1	AA	1033	G	C4-N9-C1'	-5.21	119.72	126.50
3	AC	32	U	N1-C2-N3	5.21	118.03	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	59	U	O4'-C1'-N1	5.21	112.37	108.20
26	BB	359	G	O4'-C1'-N9	5.21	112.37	108.20
26	BB	471	A	N1-C6-N6	5.21	121.73	118.60
26	BB	834	G	C8-N9-C1'	5.21	133.78	127.00
26	BB	873	C	C2-N1-C1'	5.21	124.53	118.80
49	BY	23	LYS	CA-C-N	-5.21	105.73	117.20
1	AA	38	G	N9-C1'-C2'	-5.21	106.27	112.00
1	AA	592	G	C5'-C4'-O4'	5.21	115.35	109.10
1	AA	1447	A	P-O5'-C5'	5.21	129.24	120.90
26	BB	112	U	C5-C6-N1	5.21	125.31	122.70
26	BB	188	G	C6-C5-N7	5.21	133.53	130.40
26	BB	300	A	N3-C4-N9	5.21	131.57	127.40
26	BB	390	U	N1-C1'-C2'	5.21	120.77	114.00
26	BB	885	C	O4'-C1'-C2'	-5.21	100.59	105.80
26	BB	1175	A	C3'-C2'-C1'	-5.21	97.33	101.50
26	BB	1792	G	N1-C2-N3	-5.21	120.77	123.90
26	BB	1801	A	C5'-C4'-O4'	5.21	115.35	109.10
26	BB	2411	A	N9-C4-C5	-5.21	103.72	105.80
26	BB	2533	U	C6-N1-C2	-5.21	117.87	121.00
26	BB	2726	A	C6-C5-N7	-5.21	128.65	132.30
26	BB	2827	C	C6-N1-C2	-5.21	118.22	120.30
50	BZ	50	VAL	CG1-CB-CG2	-5.21	102.56	110.90
58	B7	30	GLU	CA-CB-CG	5.21	124.87	113.40
1	AA	1472	U	P-O3'-C3'	5.21	125.95	119.70
3	AC	41	A	N3-C4-C5	-5.21	123.15	126.80
4	AD	39	A	O4'-C1'-C2'	5.21	112.29	107.60
26	BB	302	C	C2-N1-C1'	-5.21	113.07	118.80
26	BB	387	U	N1-C2-N3	5.21	118.03	114.90
26	BB	672	C	N3-C4-C5	-5.21	119.82	121.90
26	BB	1288	G	N1-C6-O6	-5.21	116.77	119.90
26	BB	1385	A	N1-C2-N3	-5.21	126.69	129.30
26	BB	2885	G	C5-C6-O6	-5.21	125.47	128.60
1	AA	36	C	N1-C2-N3	-5.21	115.55	119.20
1	AA	95	C	C5'-C4'-C3'	-5.21	107.67	116.00
1	AA	182	A	C4-C5-C6	5.21	119.60	117.00
1	AA	364	A	C5-N7-C8	-5.21	101.30	103.90
2	AB	61	C	N3-C2-O2	-5.21	118.25	121.90
4	AD	4	G	P-O3'-C3'	5.21	125.95	119.70
26	BB	255	A	C4-C5-C6	5.21	119.60	117.00
26	BB	716	A	C6-C5-N7	5.21	135.94	132.30
26	BB	723	C	C5-C6-N1	-5.21	118.40	121.00
26	BB	1280	G	C4-C5-C6	5.21	121.93	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1391	U	C3'-C2'-C1'	-5.21	97.33	101.50
26	BB	1719	G	N3-C4-C5	-5.21	126.00	128.60
26	BB	1867	G	O4'-C1'-N9	-5.21	104.03	108.20
26	BB	1884	G	N7-C8-N9	5.21	115.70	113.10
26	BB	2639	A	C5-C6-N6	-5.21	119.53	123.70
1	AA	168	G	N7-C8-N9	5.21	115.70	113.10
1	AA	1094	G	O4'-C1'-N9	5.21	112.37	108.20
1	AA	1171	A	O4'-C1'-C2'	5.21	112.28	107.60
4	AD	63	C	C2-N3-C4	5.21	122.50	119.90
26	BB	10	A	P-O5'-C5'	5.21	129.23	120.90
26	BB	86	G	O4'-C4'-C3'	-5.21	98.79	104.00
26	BB	512	G	N3-C4-C5	5.21	131.20	128.60
26	BB	705	A	C5-C6-N1	5.21	120.30	117.70
26	BB	818	G	N3-C4-C5	-5.21	126.00	128.60
26	BB	904	G	C8-N9-C1'	5.21	133.77	127.00
26	BB	1747	U	N3-C4-O4	5.21	123.05	119.40
26	BB	2031	A	C2-N3-C4	5.21	113.20	110.60
26	BB	2057	G	N3-C4-C5	-5.21	126.00	128.60
26	BB	2074	U	C5'-C4'-C3'	-5.21	107.67	116.00
26	BB	2322	A	C2-N3-C4	5.21	113.20	110.60
26	BB	2668	G	N7-C8-N9	5.21	115.70	113.10
26	BB	2887	A	C5'-C4'-C3'	-5.21	107.67	116.00
1	AA	335	C	N1-C2-O2	5.21	122.02	118.90
1	AA	490	C	C6-N1-C2	-5.21	118.22	120.30
25	BA	12	C	C5-C4-N4	-5.21	116.56	120.20
26	BB	920	A	C2-N3-C4	-5.21	108.00	110.60
26	BB	1051	G	N3-C4-N9	-5.21	122.88	126.00
26	BB	1925	C	O4'-C1'-N1	5.21	112.36	108.20
26	BB	2009	A	C5-C6-N1	5.21	120.30	117.70
26	BB	2584	U	N3-C2-O2	5.21	125.84	122.20
43	BS	24	TYR	CG-CD1-CE1	5.21	125.46	121.30
1	AA	772	U	C4'-C3'-C2'	-5.20	97.40	102.60
1	AA	1224	U	C2-N3-C4	-5.20	123.88	127.00
25	BA	115	A	C5-C6-N1	-5.20	115.10	117.70
26	BB	61	C	C2-N3-C4	5.20	122.50	119.90
26	BB	479	A	P-O3'-C3'	5.20	125.94	119.70
26	BB	703	U	O4'-C1'-N1	5.20	112.36	108.20
26	BB	811	U	C2-N3-C4	-5.20	123.88	127.00
26	BB	2267	A	P-O3'-C3'	5.20	125.94	119.70
26	BB	2572	A	C5-C6-N1	5.20	120.30	117.70
26	BB	2715	C	C6-N1-C2	-5.20	118.22	120.30
26	BB	2804	U	N1-C2-O2	-5.20	119.16	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BJ	61	ARG	NE-CZ-NH1	-5.20	117.70	120.30
1	AA	148	G	P-O3'-C3'	5.20	125.94	119.70
1	AA	487	A	C5-N7-C8	5.20	106.50	103.90
1	AA	648	A	P-O3'-C3'	5.20	125.94	119.70
1	AA	1342	C	C4'-C3'-C2'	-5.20	97.40	102.60
1	AA	1528	U	N3-C4-C5	-5.20	111.48	114.60
25	BA	60	C	C5-C4-N4	5.20	123.84	120.20
26	BB	124	G	O4'-C1'-N9	-5.20	104.04	108.20
26	BB	337	C	N1-C2-O2	5.20	122.02	118.90
26	BB	481	G	C4'-C3'-C2'	-5.20	97.40	102.60
26	BB	481	G	C5'-C4'-O4'	-5.20	102.86	109.10
26	BB	1324	G	N3-C2-N2	-5.20	116.26	119.90
26	BB	2249	U	C4-C5-C6	-5.20	116.58	119.70
26	BB	2256	G	C4-C5-N7	-5.20	108.72	110.80
26	BB	2511	U	O5'-C5'-C4'	5.20	121.58	111.70
1	AA	114	U	N3-C4-C5	-5.20	111.48	114.60
1	AA	125	U	C2-N3-C4	-5.20	123.88	127.00
1	AA	329	A	N7-C8-N9	5.20	116.40	113.80
1	AA	550	G	N3-C2-N2	5.20	123.54	119.90
1	AA	628	G	C5'-C4'-O4'	5.20	115.34	109.10
1	AA	903	G	N3-C4-N9	-5.20	122.88	126.00
1	AA	955	U	C5-C6-N1	-5.20	120.10	122.70
1	AA	1128	C	C2-N3-C4	-5.20	117.30	119.90
1	AA	1316	G	N3-C2-N2	-5.20	116.26	119.90
1	AA	1524	C	C4'-C3'-C2'	-5.20	97.40	102.60
6	AF	69	THR	CA-CB-CG2	5.20	119.68	112.40
7	AG	135	GLN	CB-CA-C	5.20	120.80	110.40
20	AT	31	PRO	N-CA-CB	5.20	109.54	103.30
23	AW	63	LYS	C-N-CA	5.20	133.22	122.30
25	BA	99	A	N9-C4-C5	-5.20	103.72	105.80
25	BA	108	A	C5-C6-N1	5.20	120.30	117.70
26	BB	256	A	O4'-C1'-C2'	5.20	112.28	107.60
26	BB	467	G	O4'-C1'-N9	5.20	112.36	108.20
26	BB	553	G	C4-C5-N7	-5.20	108.72	110.80
26	BB	770	G	O4'-C1'-N9	5.20	112.36	108.20
26	BB	1037	G	C5-N7-C8	-5.20	101.70	104.30
26	BB	1460	U	N3-C4-C5	5.20	117.72	114.60
26	BB	1983	G	C5'-C4'-C3'	-5.20	107.68	116.00
26	BB	2139	U	O4'-C1'-N1	5.20	112.36	108.20
26	BB	2543	G	C5-N7-C8	-5.20	101.70	104.30
1	AA	102	G	N1-C2-N3	5.20	127.02	123.90
1	AA	252	U	C3'-C2'-C1'	5.20	105.66	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	529	G	C4-C5-C6	5.20	121.92	118.80
1	AA	628	G	C5-N7-C8	-5.20	101.70	104.30
1	AA	948	C	N3-C4-N4	5.20	121.64	118.00
1	AA	1043	G	C4-C5-N7	-5.20	108.72	110.80
1	AA	1467	C	C2-N3-C4	5.20	122.50	119.90
1	AA	1491	G	C3'-C2'-C1'	5.20	105.66	101.50
2	AB	47	U	C5'-C4'-C3'	-5.20	107.68	116.00
19	AS	44	SER	CB-CA-C	5.20	119.98	110.10
26	BB	243	U	C2-N3-C4	5.20	130.12	127.00
26	BB	306	U	C5-C4-O4	5.20	129.02	125.90
26	BB	591	U	C4-C5-C6	-5.20	116.58	119.70
26	BB	712	G	C1'-O4'-C4'	-5.20	105.74	109.90
26	BB	964	C	C6-N1-C2	-5.20	118.22	120.30
26	BB	1193	G	C4'-C3'-C2'	-5.20	97.40	102.60
26	BB	1225	G	O4'-C4'-C3'	5.20	110.26	106.10
26	BB	1280	G	N1-C6-O6	5.20	123.02	119.90
26	BB	1555	G	C4'-C3'-C2'	-5.20	97.40	102.60
26	BB	1690	A	C4-C5-N7	5.20	113.30	110.70
26	BB	1705	A	C4'-C3'-C2'	-5.20	97.40	102.60
26	BB	1781	U	C5'-C4'-O4'	5.20	115.34	109.10
26	BB	1989	G	N9-C4-C5	5.20	107.48	105.40
26	BB	2317	A	C5-N7-C8	-5.20	101.30	103.90
26	BB	2352	A	C3'-C2'-C1'	5.20	105.66	101.50
1	AA	106	C	C5-C6-N1	5.20	123.60	121.00
1	AA	126	G	O4'-C1'-C2'	5.20	112.28	107.60
1	AA	1196	A	N1-C2-N3	5.20	131.90	129.30
26	BB	640	C	C5'-C4'-O4'	5.20	115.34	109.10
26	BB	1160	G	C8-N9-C4	5.20	108.48	106.40
26	BB	1190	G	C4-C5-N7	-5.20	108.72	110.80
26	BB	1438	U	O4'-C1'-N1	5.20	112.36	108.20
26	BB	1487	U	N3-C4-C5	5.20	117.72	114.60
26	BB	1794	A	C3'-C2'-C1'	-5.20	97.34	101.50
26	BB	2374	C	OP2-P-O3'	5.20	116.63	105.20
26	BB	2572	A	N9-C4-C5	5.20	107.88	105.80
26	BB	2873	A	N3-C4-C5	-5.20	123.16	126.80
26	BB	2892	G	N3-C4-C5	-5.20	126.00	128.60
43	BS	9	ALA	N-CA-CB	-5.20	102.83	110.10
1	AA	155	A	C6-C5-N7	5.20	135.94	132.30
1	AA	387	U	C1'-O4'-C4'	-5.20	105.74	109.90
1	AA	388	G	P-O3'-C3'	5.20	125.93	119.70
1	AA	459	A	N3-C4-N9	-5.20	123.24	127.40
1	AA	799	G	C4-C5-N7	5.20	112.88	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	812	G	N3-C4-N9	-5.20	122.88	126.00
1	AA	855	U	C1'-O4'-C4'	5.20	114.06	109.90
4	AD	52	C	C5-C6-N1	5.20	123.60	121.00
5	AE	161	PHE	CB-CG-CD2	-5.20	117.16	120.80
25	BA	107	G	C4-C5-C6	5.20	121.92	118.80
26	BB	170	U	C2-N3-C4	-5.20	123.88	127.00
26	BB	266	G	N3-C2-N2	5.20	123.54	119.90
26	BB	390	U	P-O3'-C3'	5.20	125.94	119.70
26	BB	805	G	C6-N1-C2	5.20	128.22	125.10
26	BB	1102	C	C2-N1-C1'	-5.20	113.08	118.80
26	BB	1263	U	P-O3'-C3'	5.20	125.93	119.70
26	BB	1505	A	C3'-C2'-C1'	-5.20	97.34	101.50
26	BB	2237	G	C4-C5-N7	-5.20	108.72	110.80
26	BB	2610	C	C3'-C2'-C1'	5.20	105.66	101.50
26	BB	2691	C	C5-C6-N1	-5.20	118.40	121.00
26	BB	2755	C	C3'-C2'-C1'	-5.20	97.34	101.50
26	BB	2785	C	P-O3'-C3'	5.20	125.93	119.70
26	BB	2842	G	C4'-C3'-O3'	5.20	123.39	113.00
33	BI	50	ARG	NE-CZ-NH2	5.20	122.90	120.30
1	AA	305	G	C5-C6-N1	5.19	114.10	111.50
1	AA	1036	A	C6-N1-C2	5.19	121.72	118.60
4	AD	73	A	N3-C4-C5	-5.19	123.16	126.80
26	BB	1121	C	C5-C4-N4	-5.19	116.56	120.20
26	BB	1981	A	C5'-C4'-O4'	5.19	115.33	109.10
37	BM	31	ARG	NH1-CZ-NH2	-5.19	113.69	119.40
41	BQ	64	TYR	CB-CG-CD1	5.19	124.12	121.00
1	AA	178	C	C5'-C4'-O4'	5.19	115.33	109.10
1	AA	722	G	C5-N7-C8	-5.19	101.70	104.30
1	AA	765	G	O5'-P-OP2	-5.19	101.03	105.70
1	AA	774	G	C4-N9-C1'	-5.19	119.75	126.50
1	AA	865	A	N1-C2-N3	5.19	131.90	129.30
1	AA	1138	G	N1-C2-N3	-5.19	120.78	123.90
1	AA	1270	G	N9-C4-C5	5.19	107.48	105.40
3	AC	18	A	O3'-P-O5'	-5.19	94.14	104.00
7	AG	160	LEU	CB-CG-CD2	5.19	119.83	111.00
17	AQ	85	GLU	OE1-CD-OE2	5.19	129.53	123.30
26	BB	175	G	C8-N9-C4	-5.19	104.32	106.40
26	BB	428	A	C4-C5-N7	5.19	113.30	110.70
26	BB	575	A	C1'-O4'-C4'	-5.19	105.75	109.90
26	BB	626	A	C5-C6-N1	5.19	120.30	117.70
26	BB	797	G	C3'-C2'-C1'	5.19	105.65	101.50
26	BB	1127	A	C5-N7-C8	-5.19	101.30	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1282	U	C6-N1-C2	-5.19	117.89	121.00
26	BB	1488	C	N1-C2-N3	5.19	122.83	119.20
26	BB	1498	C	C5-C4-N4	-5.19	116.57	120.20
26	BB	1546	G	O4'-C1'-N9	5.19	112.35	108.20
26	BB	1549	A	P-O3'-C3'	5.19	125.93	119.70
26	BB	1645	G	N3-C2-N2	-5.19	116.27	119.90
26	BB	2138	G	P-O5'-C5'	5.19	129.21	120.90
26	BB	2464	G	O4'-C4'-C3'	-5.19	98.81	104.00
26	BB	2744	G	N1-C6-O6	-5.19	116.78	119.90
56	B5	44	VAL	CG1-CB-CG2	-5.19	102.59	110.90
1	AA	998	C	C1'-O4'-C4'	-5.19	105.75	109.90
1	AA	1147	C	N3-C4-C5	-5.19	119.82	121.90
1	AA	1237	C	C5-C4-N4	-5.19	116.57	120.20
1	AA	1492	A	C5-N7-C8	5.19	106.50	103.90
2	AB	43	G	O4'-C1'-C2'	-5.19	100.61	105.80
25	BA	34	A	C4'-C3'-O3'	5.19	123.38	113.00
26	BB	86	G	N1-C6-O6	-5.19	116.79	119.90
26	BB	188	G	C2-N3-C4	5.19	114.50	111.90
26	BB	669	G	C5'-C4'-O4'	5.19	115.33	109.10
26	BB	938	G	N9-C4-C5	5.19	107.48	105.40
26	BB	1292	G	C5-C6-N1	5.19	114.09	111.50
26	BB	1486	U	C5-C4-O4	5.19	129.01	125.90
26	BB	1650	A	N1-C6-N6	-5.19	115.49	118.60
26	BB	1781	U	P-O3'-C3'	5.19	125.93	119.70
26	BB	2022	U	P-O3'-C3'	5.19	125.93	119.70
26	BB	2124	G	N7-C8-N9	-5.19	110.50	113.10
26	BB	2708	G	C3'-C2'-C1'	5.19	105.65	101.50
30	BF	67	ARG	NH1-CZ-NH2	-5.19	113.69	119.40
1	AA	109	A	C4-C5-C6	-5.19	114.41	117.00
1	AA	237	G	N3-C4-C5	-5.19	126.00	128.60
1	AA	493	A	C2-N3-C4	5.19	113.19	110.60
1	AA	647	C	N3-C2-O2	-5.19	118.27	121.90
1	AA	872	A	C6-N1-C2	5.19	121.71	118.60
1	AA	940	C	C5'-C4'-O4'	5.19	115.33	109.10
25	BA	35	C	C4-C5-C6	-5.19	114.81	117.40
26	BB	363	G	C5'-C4'-C3'	-5.19	107.70	116.00
26	BB	682	G	C6-C5-N7	-5.19	127.29	130.40
26	BB	1100	C	N3-C4-N4	-5.19	114.37	118.00
26	BB	1844	C	C2-N3-C4	5.19	122.50	119.90
26	BB	1888	G	N7-C8-N9	5.19	115.69	113.10
26	BB	1888	G	N9-C4-C5	5.19	107.48	105.40
26	BB	2391	G	N1-C2-N2	-5.19	111.53	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2720	U	C5'-C4'-C3'	-5.19	107.70	116.00
27	BC	166	ASP	CB-CG-OD1	-5.19	113.63	118.30
1	AA	181	A	C1'-O4'-C4'	-5.19	105.75	109.90
1	AA	217	C	C5-C4-N4	-5.19	116.57	120.20
1	AA	332	G	C8-N9-C4	-5.19	104.33	106.40
1	AA	380	G	N3-C4-C5	-5.19	126.01	128.60
1	AA	598	U	O3'-P-O5'	-5.19	94.14	104.00
1	AA	704	A	N3-C4-C5	5.19	130.43	126.80
1	AA	1257	A	C6-N1-C2	-5.19	115.49	118.60
4	AD	53	G	C5'-C4'-O4'	5.19	115.32	109.10
25	BA	115	A	C1'-O4'-C4'	-5.19	105.75	109.90
26	BB	165	A	C5'-C4'-O4'	5.19	115.32	109.10
26	BB	214	G	C4-C5-N7	5.19	112.88	110.80
26	BB	896	A	N1-C2-N3	-5.19	126.71	129.30
26	BB	930	G	N1-C6-O6	5.19	123.01	119.90
26	BB	979	A	C4'-C3'-C2'	-5.19	97.41	102.60
26	BB	1013	C	C1'-O4'-C4'	-5.19	105.75	109.90
26	BB	1190	G	O4'-C1'-C2'	5.19	112.27	107.60
26	BB	2017	U	C2-N3-C4	5.19	130.11	127.00
26	BB	2055	C	O5'-C5'-C4'	5.19	121.56	111.70
26	BB	2482	A	C2-N3-C4	5.19	113.19	110.60
38	BN	27	LEU	CB-CG-CD2	-5.19	102.18	111.00
1	AA	579	A	N3-C4-C5	-5.19	123.17	126.80
26	BB	136	G	N1-C2-N3	-5.19	120.79	123.90
26	BB	1563	U	C3'-C2'-C1'	5.19	105.65	101.50
26	BB	1578	U	P-O3'-C3'	5.19	125.92	119.70
26	BB	1631	G	C2-N3-C4	5.19	114.49	111.90
26	BB	1862	G	C5-C6-O6	-5.19	125.49	128.60
26	BB	1931	U	C3'-C2'-C1'	5.19	105.65	101.50
32	BH	71	LEU	CB-CG-CD2	5.19	119.82	111.00
1	AA	160	A	C1'-O4'-C4'	-5.18	105.75	109.90
1	AA	561	U	O4'-C1'-N1	5.18	112.35	108.20
1	AA	878	A	C5'-C4'-C3'	-5.18	107.70	116.00
1	AA	928	G	N3-C2-N2	5.18	123.53	119.90
1	AA	1102	A	N3-C4-N9	5.18	131.55	127.40
1	AA	1360	A	N9-C4-C5	5.18	107.87	105.80
1	AA	1431	A	O4'-C1'-N9	5.18	112.35	108.20
4	AD	9	G	C6-N1-C2	-5.18	121.99	125.10
25	BA	60	C	N1-C2-O2	-5.18	115.79	118.90
26	BB	203	A	C2-N3-C4	5.18	113.19	110.60
26	BB	363	G	N9-C4-C5	5.18	107.47	105.40
26	BB	496	G	O4'-C1'-N9	5.18	112.35	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	579	G	N3-C2-N2	-5.18	116.27	119.90
26	BB	587	C	N3-C4-C5	-5.18	119.83	121.90
26	BB	738	G	C4-C5-N7	-5.18	108.73	110.80
26	BB	760	G	C5'-C4'-O4'	5.18	115.32	109.10
26	BB	782	A	C6-N1-C2	5.18	121.71	118.60
26	BB	909	A	N1-C2-N3	-5.18	126.71	129.30
26	BB	1144	A	C4'-C3'-C2'	5.18	107.78	102.60
26	BB	1493	C	P-O5'-C5'	5.18	129.19	120.90
26	BB	1807	G	C6-C5-N7	-5.18	127.29	130.40
26	BB	1936	A	C6-C5-N7	5.18	135.93	132.30
26	BB	2008	C	N3-C4-C5	5.18	123.97	121.90
26	BB	2101	A	N1-C6-N6	5.18	121.71	118.60
26	BB	2116	G	N7-C8-N9	5.18	115.69	113.10
26	BB	2180	U	N1-C2-O2	-5.18	119.17	122.80
26	BB	2839	G	N3-C4-C5	-5.18	126.01	128.60
26	BB	2854	G	N3-C4-N9	-5.18	122.89	126.00
52	B1	57	GLU	CA-CB-CG	5.18	124.81	113.40
56	B5	22	MET	CA-CB-CG	5.18	122.11	113.30
1	AA	326	G	N7-C8-N9	5.18	115.69	113.10
1	AA	336	A	N9-C4-C5	5.18	107.87	105.80
1	AA	1183	U	N1-C2-O2	5.18	126.43	122.80
1	AA	1215	G	C6-N1-C2	5.18	128.21	125.10
1	AA	1358	U	N1-C2-O2	-5.18	119.17	122.80
2	AB	47	U	C6-N1-C2	5.18	124.11	121.00
26	BB	183	C	C1'-O4'-C4'	-5.18	105.75	109.90
26	BB	282	A	C4'-C3'-C2'	-5.18	97.42	102.60
26	BB	1083	U	C4'-C3'-C2'	-5.18	97.42	102.60
26	BB	1111	A	N9-C1'-C2'	-5.18	106.30	112.00
26	BB	1563	U	C5'-C4'-C3'	-5.18	107.71	116.00
26	BB	1776	G	N9-C4-C5	5.18	107.47	105.40
26	BB	2087	G	C4-C5-C6	-5.18	115.69	118.80
26	BB	2555	U	C6-N1-C2	-5.18	117.89	121.00
26	BB	2782	G	N3-C2-N2	-5.18	116.27	119.90
1	AA	161	A	C4-C5-C6	-5.18	114.41	117.00
1	AA	454	G	C5'-C4'-O4'	5.18	115.32	109.10
1	AA	1385	G	C4-C5-C6	5.18	121.91	118.80
15	AO	46	SER	C-N-CA	5.18	134.65	121.70
26	BB	164	C	C4-C5-C6	-5.18	114.81	117.40
26	BB	2087	G	C2'-C3'-O3'	5.18	121.99	113.70
26	BB	2363	G	N9-C1'-C2'	-5.18	106.30	112.00
26	BB	2364	C	P-O3'-C3'	5.18	125.92	119.70
26	BB	2411	A	O5'-P-OP1	-5.18	101.04	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2579	C	C4'-C3'-O3'	5.18	123.36	113.00
1	AA	549	C	C5'-C4'-C3'	-5.18	107.71	116.00
1	AA	784	A	C4-C5-C6	-5.18	114.41	117.00
1	AA	822	U	C5-C4-O4	-5.18	122.79	125.90
1	AA	921	U	P-O5'-C5'	5.18	129.19	120.90
6	AF	17	TRP	NE1-CE2-CD2	-5.18	102.12	107.30
9	AI	123	ASP	CB-CG-OD2	-5.18	113.64	118.30
26	BB	25	U	C2-N3-C4	-5.18	123.89	127.00
26	BB	1651	G	O4'-C1'-C2'	5.18	112.26	107.60
26	BB	1653	G	C2-N3-C4	5.18	114.49	111.90
1	AA	521	G	N1-C2-N2	5.18	120.86	116.20
1	AA	532	A	O3'-P-O5'	-5.18	94.16	104.00
1	AA	667	G	C1'-O4'-C4'	5.18	114.04	109.90
1	AA	839	C	O3'-P-O5'	5.18	113.84	104.00
1	AA	880	C	C2-N3-C4	5.18	122.49	119.90
1	AA	1114	C	O4'-C1'-N1	5.18	112.34	108.20
1	AA	1253	G	C1'-O4'-C4'	-5.18	105.76	109.90
26	BB	707	G	O4'-C1'-N9	5.18	112.34	108.20
26	BB	924	G	C6-N1-C2	-5.18	121.99	125.10
26	BB	1483	G	C6-C5-N7	-5.18	127.29	130.40
26	BB	1862	G	N3-C4-C5	-5.18	126.01	128.60
26	BB	1999	C	C4-C5-C6	5.18	119.99	117.40
26	BB	2009	A	C5-N7-C8	-5.18	101.31	103.90
26	BB	2469	A	P-O3'-C3'	5.18	125.91	119.70
26	BB	2469	A	N3-C4-N9	-5.18	123.26	127.40
27	BC	84	ALA	CB-CA-C	5.18	117.87	110.10
1	AA	10	A	C8-N9-C1'	5.18	137.02	127.70
1	AA	23	C	C4-C5-C6	-5.18	114.81	117.40
1	AA	229	U	N1-C2-O2	5.18	126.42	122.80
1	AA	346	G	N7-C8-N9	5.18	115.69	113.10
1	AA	829	G	C6-N1-C2	-5.18	122.00	125.10
2	AB	70	C	N3-C2-O2	-5.18	118.28	121.90
4	AD	3	C	N3-C2-O2	-5.18	118.28	121.90
18	AR	48	ASP	CB-CG-OD1	-5.18	113.64	118.30
21	AU	72	ARG	NE-CZ-NH2	5.18	122.89	120.30
26	BB	144	A	N3-C4-N9	-5.18	123.26	127.40
26	BB	501	A	N3-C4-C5	5.18	130.42	126.80
26	BB	554	U	O4'-C4'-C3'	5.18	110.24	106.10
26	BB	632	A	C5-C6-N1	-5.18	115.11	117.70
26	BB	879	G	C8-N9-C4	-5.18	104.33	106.40
26	BB	1148	U	N3-C4-C5	-5.18	111.49	114.60
26	BB	1423	G	C4-N9-C1'	-5.18	119.77	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1750	G	C5'-C4'-O4'	5.18	115.31	109.10
26	BB	1820	U	C3'-C2'-C1'	-5.18	97.36	101.50
26	BB	1844	C	N3-C2-O2	-5.18	118.28	121.90
26	BB	2211	A	O4'-C1'-C2'	-5.18	100.62	105.80
26	BB	2315	G	C6-N1-C2	-5.18	122.00	125.10
26	BB	2324	U	C2-N3-C4	-5.18	123.89	127.00
26	BB	2776	A	N3-C4-C5	-5.18	123.18	126.80
1	AA	152	A	N9-C4-C5	5.17	107.87	105.80
1	AA	178	C	C5'-C4'-C3'	5.17	124.28	116.00
1	AA	786	G	P-O3'-C3'	5.17	125.91	119.70
1	AA	886	G	N1-C2-N3	-5.17	120.80	123.90
1	AA	948	C	C4'-C3'-C2'	-5.17	97.43	102.60
1	AA	1525	G	C5-C6-O6	-5.17	125.50	128.60
25	BA	112	G	N1-C2-N2	-5.17	111.54	116.20
26	BB	227	A	C5-N7-C8	-5.17	101.31	103.90
26	BB	377	G	O4'-C1'-N9	5.17	112.34	108.20
26	BB	760	G	N1-C2-N2	-5.17	111.54	116.20
26	BB	1190	G	N3-C2-N2	-5.17	116.28	119.90
26	BB	1317	G	N1-C6-O6	-5.17	116.80	119.90
26	BB	1366	A	N1-C2-N3	-5.17	126.71	129.30
26	BB	1603	A	C4'-C3'-C2'	-5.17	97.42	102.60
26	BB	1674	G	C6-N1-C2	-5.17	122.00	125.10
26	BB	1699	G	C4'-C3'-O3'	-5.17	98.53	109.40
26	BB	2036	C	C5'-C4'-O4'	5.17	115.31	109.10
26	BB	2678	C	O4'-C4'-C3'	-5.17	98.83	104.00
26	BB	2773	C	C5-C6-N1	-5.17	118.41	121.00
34	BJ	83	TYR	CB-CG-CD1	-5.17	117.89	121.00
49	BY	18	LYS	C-N-CA	5.17	134.64	121.70
1	AA	31	G	N3-C4-N9	5.17	129.10	126.00
1	AA	68	G	O4'-C1'-N9	5.17	112.34	108.20
1	AA	932	C	C2-N3-C4	-5.17	117.31	119.90
1	AA	1275	A	C5-N7-C8	-5.17	101.31	103.90
2	AB	75	C	O5'-P-OP1	-5.17	101.04	105.70
3	AC	33	A	N1-C6-N6	-5.17	115.50	118.60
25	BA	68	C	C4-C5-C6	5.17	119.99	117.40
26	BB	340	A	N3-C4-N9	5.17	131.54	127.40
26	BB	785	G	N3-C4-C5	-5.17	126.01	128.60
26	BB	929	U	O4'-C1'-N1	5.17	112.34	108.20
26	BB	1222	U	C4'-C3'-C2'	-5.17	97.43	102.60
26	BB	1374	G	C4-C5-N7	5.17	112.87	110.80
26	BB	1844	C	N1-C2-O2	5.17	122.00	118.90
26	BB	1963	U	N1-C1'-C2'	-5.17	106.31	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2022	U	C5-C4-O4	-5.17	122.80	125.90
1	AA	404	G	C5-C6-N1	-5.17	108.91	111.50
1	AA	666	G	C5-N7-C8	-5.17	101.71	104.30
1	AA	781	A	P-O3'-C3'	5.17	125.91	119.70
1	AA	819	A	C3'-C2'-C1'	5.17	105.64	101.50
1	AA	1204	A	C4-C5-C6	-5.17	114.42	117.00
26	BB	899	A	N7-C8-N9	-5.17	111.21	113.80
26	BB	1054	A	C5-C6-N6	-5.17	119.56	123.70
26	BB	1102	C	N1-C1'-C2'	-5.17	106.31	112.00
26	BB	1105	U	C4'-C3'-C2'	-5.17	97.43	102.60
26	BB	1304	A	C4-C5-N7	-5.17	108.11	110.70
26	BB	1346	G	N1-C2-N3	5.17	127.00	123.90
26	BB	1462	C	P-O3'-C3'	5.17	125.91	119.70
26	BB	1718	G	N1-C2-N2	-5.17	111.55	116.20
26	BB	2380	C	C5'-C4'-O4'	5.17	115.31	109.10
25	BA	78	A	N7-C8-N9	5.17	116.39	113.80
26	BB	1617	C	C5-C4-N4	5.17	123.82	120.20
26	BB	2817	U	N1-C2-O2	5.17	126.42	122.80
1	AA	183	C	N3-C4-C5	5.17	123.97	121.90
1	AA	197	A	C4'-C3'-O3'	-5.17	98.55	109.40
1	AA	445	G	N9-C4-C5	5.17	107.47	105.40
3	AC	44	U	C4'-C3'-C2'	-5.17	97.43	102.60
26	BB	44	A	N7-C8-N9	-5.17	111.22	113.80
26	BB	575	A	N9-C1'-C2'	-5.17	106.31	112.00
26	BB	577	G	N3-C2-N2	-5.17	116.28	119.90
26	BB	639	U	C4'-C3'-C2'	5.17	107.77	102.60
26	BB	907	G	C8-N9-C4	5.17	108.47	106.40
26	BB	1226	A	C5-C6-N1	-5.17	115.12	117.70
26	BB	1798	U	N1-C1'-C2'	-5.17	106.31	112.00
26	BB	1926	U	C4'-C3'-C2'	-5.17	97.43	102.60
26	BB	2375	G	N3-C4-N9	5.17	129.10	126.00
26	BB	2528	U	C4'-C3'-C2'	-5.17	97.43	102.60
26	BB	2739	U	C1'-O4'-C4'	5.17	114.03	109.90
26	BB	2899	A	N3-C4-C5	-5.17	123.18	126.80
1	AA	194	C	O4'-C1'-N1	5.17	112.33	108.20
1	AA	514	C	C2-N3-C4	-5.17	117.32	119.90
1	AA	562	U	C3'-C2'-C1'	5.17	105.63	101.50
1	AA	612	C	C5-C6-N1	-5.17	118.42	121.00
1	AA	785	G	N7-C8-N9	5.17	115.68	113.10
1	AA	1064	G	C5'-C4'-C3'	-5.17	107.73	116.00
1	AA	1150	A	C1'-O4'-C4'	-5.17	105.77	109.90
1	AA	1209	C	N3-C2-O2	-5.17	118.28	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1264	U	C2-N3-C4	-5.17	123.90	127.00
1	AA	1294	G	C8-N9-C4	-5.17	104.33	106.40
25	BA	85	G	N3-C4-N9	5.17	129.10	126.00
26	BB	92	U	O4'-C4'-C3'	5.17	110.23	106.10
26	BB	164	C	N3-C2-O2	-5.17	118.28	121.90
26	BB	432	A	N9-C4-C5	5.17	107.87	105.80
26	BB	492	A	C4'-C3'-C2'	-5.17	97.43	102.60
26	BB	543	G	O4'-C1'-N9	5.17	112.33	108.20
26	BB	651	G	C6-N1-C2	-5.17	122.00	125.10
26	BB	739	A	N7-C8-N9	5.17	116.38	113.80
26	BB	974	G	C4-C5-C6	5.17	121.90	118.80
26	BB	979	A	N1-C6-N6	5.17	121.70	118.60
26	BB	1105	U	N3-C2-O2	-5.17	118.58	122.20
26	BB	1671	U	C4-C5-C6	5.17	122.80	119.70
26	BB	2070	A	C5-C6-N1	5.17	120.28	117.70
26	BB	8	C	N3-C4-C5	-5.17	119.83	121.90
26	BB	134	G	C3'-C2'-C1'	5.17	105.63	101.50
26	BB	152	A	C6-C5-N7	-5.17	128.69	132.30
26	BB	161	A	N9-C1'-C2'	-5.17	106.32	112.00
26	BB	232	G	N1-C2-N2	-5.17	111.55	116.20
26	BB	300	A	N9-C1'-C2'	-5.17	106.32	112.00
26	BB	777	G	C6-C5-N7	-5.17	127.30	130.40
26	BB	1391	U	C1'-O4'-C4'	-5.17	105.77	109.90
26	BB	1644	C	N1-C2-N3	-5.17	115.58	119.20
26	BB	1960	A	C1'-O4'-C4'	5.17	114.03	109.90
26	BB	2894	G	C3'-C2'-C1'	-5.17	97.37	101.50
1	AA	246	A	C2-N3-C4	-5.16	108.02	110.60
1	AA	345	C	O4'-C1'-N1	5.16	112.33	108.20
1	AA	537	G	C4'-C3'-C2'	-5.16	97.44	102.60
1	AA	819	A	C5'-C4'-O4'	5.16	115.30	109.10
1	AA	1088	G	N1-C6-O6	-5.16	116.80	119.90
1	AA	1177	G	C6-C5-N7	-5.16	127.30	130.40
1	AA	1508	A	C5-C6-N1	5.16	120.28	117.70
3	AC	13	A	C4'-C3'-C2'	-5.16	97.44	102.60
25	BA	119	A	N3-C4-C5	-5.16	123.19	126.80
26	BB	510	C	P-O3'-C3'	5.16	125.90	119.70
26	BB	692	C	C5-C4-N4	5.16	123.81	120.20
26	BB	837	C	C5'-C4'-O4'	5.16	115.30	109.10
26	BB	1017	G	N3-C4-C5	5.16	131.18	128.60
26	BB	1128	G	C4-C5-C6	5.16	121.90	118.80
26	BB	1162	G	N3-C4-N9	5.16	129.10	126.00
26	BB	1477	A	C6-N1-C2	5.16	121.70	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1811	G	N7-C8-N9	-5.16	110.52	113.10
26	BB	1961	C	C1'-O4'-C4'	-5.16	105.77	109.90
26	BB	2065	C	C2-N1-C1'	-5.16	113.12	118.80
26	BB	2105	U	O3'-P-O5'	-5.16	94.19	104.00
26	BB	2344	U	N1-C1'-C2'	5.16	120.71	114.00
26	BB	2648	G	C6-C5-N7	-5.16	127.30	130.40
1	AA	834	U	P-O3'-C3'	5.16	125.89	119.70
1	AA	1027	C	C2-N1-C1'	-5.16	113.12	118.80
1	AA	1218	C	N3-C2-O2	-5.16	118.29	121.90
1	AA	1294	G	C8-N9-C1'	5.16	133.71	127.00
1	AA	1494	G	C5-C6-N1	-5.16	108.92	111.50
4	AD	71	G	N7-C8-N9	5.16	115.68	113.10
26	BB	11	C	C5-C6-N1	-5.16	118.42	121.00
26	BB	259	G	C2-N3-C4	-5.16	109.32	111.90
26	BB	1058	U	N3-C4-O4	-5.16	115.79	119.40
26	BB	1574	C	C4'-C3'-C2'	-5.16	97.44	102.60
26	BB	1989	G	C2-N3-C4	5.16	114.48	111.90
1	AA	288	A	C1'-O4'-C4'	-5.16	105.77	109.90
1	AA	428	G	C5'-C4'-O4'	5.16	115.29	109.10
1	AA	499	A	O3'-P-O5'	-5.16	94.20	104.00
1	AA	506	G	C5-C6-O6	-5.16	125.50	128.60
1	AA	583	A	C1'-O4'-C4'	-5.16	105.77	109.90
1	AA	633	G	C5'-C4'-O4'	5.16	115.29	109.10
1	AA	643	C	N3-C4-N4	5.16	121.61	118.00
1	AA	888	G	P-O3'-C3'	5.16	125.89	119.70
1	AA	963	G	N9-C1'-C2'	-5.16	106.32	112.00
1	AA	1338	G	N9-C4-C5	5.16	107.46	105.40
1	AA	1485	U	C2-N3-C4	-5.16	123.90	127.00
25	BA	115	A	C2-N3-C4	5.16	113.18	110.60
25	BA	119	A	O4'-C4'-C3'	5.16	110.23	106.10
26	BB	452	G	C6-C5-N7	-5.16	127.30	130.40
26	BB	597	G	N7-C8-N9	5.16	115.68	113.10
26	BB	780	G	C4-C5-N7	5.16	112.86	110.80
26	BB	784	G	C5'-C4'-C3'	-5.16	107.74	116.00
26	BB	1010	A	C6-C5-N7	-5.16	128.69	132.30
26	BB	1140	C	C5'-C4'-O4'	5.16	115.29	109.10
26	BB	1432	G	C3'-C2'-C1'	-5.16	97.37	101.50
26	BB	1631	G	N9-C1'-C2'	-5.16	106.32	112.00
26	BB	1796	U	C2-N3-C4	-5.16	123.90	127.00
26	BB	1908	C	C5'-C4'-C3'	-5.16	107.74	116.00
26	BB	1969	A	O5'-P-OP2	-5.16	101.06	105.70
26	BB	2489	U	O4'-C1'-C2'	-5.16	100.64	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2644	G	C4'-C3'-C2'	-5.16	97.44	102.60
50	BZ	44	ARG	N-CA-CB	-5.16	101.31	110.60
1	AA	360	G	C4'-C3'-C2'	-5.16	97.44	102.60
1	AA	1221	G	C8-N9-C4	-5.16	104.34	106.40
1	AA	1277	C	O3'-P-O5'	-5.16	94.20	104.00
1	AA	1388	C	N1-C2-O2	5.16	122.00	118.90
1	AA	1534	A	N7-C8-N9	5.16	116.38	113.80
4	AD	15	G	N1-C2-N2	-5.16	111.56	116.20
6	AF	218	LYS	CB-CA-C	5.16	120.72	110.40
26	BB	140	C	O5'-P-OP2	-5.16	101.06	105.70
26	BB	200	U	N3-C2-O2	-5.16	118.59	122.20
26	BB	321	U	N3-C4-O4	-5.16	115.79	119.40
26	BB	925	A	C5-N7-C8	-5.16	101.32	103.90
26	BB	1084	A	C4-C5-N7	-5.16	108.12	110.70
26	BB	1500	G	C6-C5-N7	-5.16	127.31	130.40
26	BB	1861	G	N3-C2-N2	-5.16	116.29	119.90
26	BB	2010	G	N9-C4-C5	5.16	107.46	105.40
26	BB	2077	A	P-O3'-C3'	5.16	125.89	119.70
26	BB	2304	G	N3-C4-N9	5.16	129.09	126.00
27	BC	204	ALA	CB-CA-C	5.16	117.84	110.10
28	BD	247	TRP	CG-CD2-CE3	-5.16	129.26	133.90
33	BI	75	LEU	CB-CG-CD2	5.16	119.77	111.00
1	AA	1323	G	C5-C6-O6	-5.16	125.51	128.60
26	BB	125	A	C5-C6-N6	-5.16	119.58	123.70
26	BB	221	A	O5'-P-OP2	-5.16	101.06	105.70
26	BB	271	G	C5-C6-O6	-5.16	125.51	128.60
26	BB	776	G	C2-N3-C4	5.16	114.48	111.90
26	BB	1171	G	C1'-O4'-C4'	-5.16	105.77	109.90
26	BB	1269	A	C5'-C4'-O4'	5.16	115.29	109.10
26	BB	2080	A	C2-N3-C4	5.16	113.18	110.60
26	BB	2277	G	C2'-C3'-O3'	5.16	121.95	113.70
26	BB	2388	A	C8-N9-C4	5.16	107.86	105.80
26	BB	2418	A	O4'-C1'-N9	5.16	112.33	108.20
27	BC	178	VAL	CA-CB-CG2	5.16	118.64	110.90
1	AA	20	U	C4-C5-C6	-5.16	116.61	119.70
1	AA	171	A	C5-C6-N1	5.16	120.28	117.70
1	AA	276	G	N3-C4-C5	5.16	131.18	128.60
1	AA	387	U	C6-N1-C2	-5.16	117.91	121.00
1	AA	592	G	C6-N1-C2	-5.16	122.01	125.10
1	AA	1379	G	N1-C6-O6	-5.16	116.81	119.90
3	AC	42	U	C1'-O4'-C4'	5.16	114.03	109.90
11	AK	80	PRO	N-CD-CG	5.16	110.93	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	AO	64	SER	CB-CA-C	5.16	119.89	110.10
26	BB	295	G	C5-N7-C8	-5.16	101.72	104.30
26	BB	554	U	C3'-C2'-C1'	5.16	105.62	101.50
26	BB	658	U	N1-C2-O2	5.16	126.41	122.80
26	BB	700	G	P-O3'-C3'	5.16	125.89	119.70
26	BB	1178	C	N1-C2-N3	5.16	122.81	119.20
26	BB	1411	U	O4'-C1'-N1	5.16	112.32	108.20
26	BB	1752	C	C4'-C3'-C2'	-5.16	97.44	102.60
26	BB	2258	C	C4-C5-C6	5.16	119.98	117.40
26	BB	2385	C	C1'-O4'-C4'	-5.16	105.78	109.90
26	BB	2474	U	N3-C2-O2	5.16	125.81	122.20
26	BB	2641	G	C1'-O4'-C4'	5.16	114.02	109.90
26	BB	2655	G	C1'-O4'-C4'	-5.16	105.78	109.90
26	BB	2712	C	C5-C6-N1	5.16	123.58	121.00
26	BB	2764	A	N1-C2-N3	-5.16	126.72	129.30
26	BB	2788	C	N1-C1'-C2'	-5.16	106.33	112.00
26	BB	2892	G	C6-C5-N7	5.16	133.49	130.40
45	BU	14	ALA	N-CA-CB	-5.16	102.88	110.10
2	AB	44	G	N3-C2-N2	5.15	123.51	119.90
7	AG	17	ASP	CB-CG-OD1	-5.15	113.66	118.30
10	AJ	111	GLY	O-C-N	5.15	130.95	122.70
26	BB	921	C	N3-C4-N4	5.15	121.61	118.00
26	BB	1530	G	C6-C5-N7	-5.15	127.31	130.40
26	BB	1659	G	C5-C6-O6	-5.15	125.51	128.60
26	BB	2430	A	C6-N1-C2	-5.15	115.51	118.60
26	BB	2551	C	C5-C4-N4	-5.15	116.59	120.20
26	BB	2738	A	C2-N3-C4	5.15	113.18	110.60
28	BD	263	ASP	CB-CG-OD2	-5.15	113.66	118.30
1	AA	362	G	P-O5'-C5'	5.15	129.14	120.90
1	AA	703	G	N7-C8-N9	5.15	115.68	113.10
2	AB	67	G	P-O3'-C3'	5.15	125.88	119.70
4	AD	19	G	O4'-C1'-N9	-5.15	104.08	108.20
26	BB	215	G	C6-N1-C2	-5.15	122.01	125.10
26	BB	364	C	O4'-C1'-N1	5.15	112.32	108.20
26	BB	727	A	N1-C6-N6	5.15	121.69	118.60
26	BB	900	A	C5-N7-C8	5.15	106.48	103.90
26	BB	924	G	O4'-C1'-N9	5.15	112.32	108.20
26	BB	1044	C	C4-C5-C6	-5.15	114.82	117.40
26	BB	1120	G	O4'-C1'-N9	5.15	112.32	108.20
26	BB	1158	C	C5'-C4'-O4'	5.15	115.28	109.10
26	BB	1207	C	C2'-C3'-O3'	5.15	121.94	113.70
26	BB	1211	C	C5-C6-N1	-5.15	118.42	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1261	C	N1-C2-O2	5.15	121.99	118.90
26	BB	1439	A	N3-C4-C5	-5.15	123.19	126.80
26	BB	1445	G	N7-C8-N9	-5.15	110.52	113.10
26	BB	1543	G	N1-C6-O6	-5.15	116.81	119.90
26	BB	2584	U	O4'-C1'-C2'	-5.15	100.65	105.80
26	BB	2837	A	N1-C6-N6	-5.15	115.51	118.60
1	AA	94	G	N1-C2-N3	-5.15	120.81	123.90
1	AA	194	C	C5-C4-N4	-5.15	116.59	120.20
1	AA	796	C	N1-C2-O2	-5.15	115.81	118.90
1	AA	941	G	N9-C1'-C2'	-5.15	106.33	112.00
1	AA	969	A	C2-N3-C4	-5.15	108.03	110.60
2	AB	64	U	O4'-C4'-C3'	5.15	110.22	106.10
4	AD	28	U	N3-C4-O4	5.15	123.00	119.40
7	AG	103	ARG	NH1-CZ-NH2	5.15	125.06	119.40
26	BB	37	C	OP1-P-OP2	-5.15	111.87	119.60
26	BB	210	C	O4'-C1'-N1	5.15	112.32	108.20
26	BB	867	C	C2-N3-C4	5.15	122.47	119.90
26	BB	1932	A	C6-N1-C2	-5.15	115.51	118.60
26	BB	2308	G	C2-N3-C4	5.15	114.48	111.90
26	BB	2607	G	N3-C4-C5	-5.15	126.03	128.60
26	BB	2724	U	N1-C2-O2	-5.15	119.19	122.80
26	BB	2828	G	N9-C1'-C2'	-5.15	106.33	112.00
39	BO	10	ARG	NH1-CZ-NH2	5.15	125.07	119.40
1	AA	92	U	C5-C6-N1	-5.15	120.13	122.70
1	AA	611	C	C1'-O4'-C4'	-5.15	105.78	109.90
1	AA	1262	C	O5'-C5'-C4'	-5.15	101.92	111.70
3	AC	24	A	C6-C5-N7	5.15	135.90	132.30
4	AD	39	A	C5-N7-C8	-5.15	101.33	103.90
26	BB	954	G	N1-C6-O6	-5.15	116.81	119.90
26	BB	1281	G	N9-C4-C5	5.15	107.46	105.40
26	BB	1502	A	N1-C2-N3	-5.15	126.73	129.30
26	BB	1811	G	O4'-C1'-N9	5.15	112.32	108.20
26	BB	1886	U	O4'-C1'-N1	5.15	112.32	108.20
26	BB	2499	C	C6-N1-C2	-5.15	118.24	120.30
26	BB	2759	G	N7-C8-N9	5.15	115.67	113.10
1	AA	467	U	N3-C4-C5	-5.15	111.51	114.60
1	AA	650	G	C4'-C3'-C2'	-5.15	97.45	102.60
1	AA	779	C	C3'-C2'-C1'	-5.15	97.38	101.50
1	AA	828	U	C6-N1-C2	-5.15	117.91	121.00
1	AA	1437	A	C5-C6-N6	-5.15	119.58	123.70
1	AA	1469	C	O4'-C1'-C2'	5.15	112.23	107.60
2	AB	10	G	C4-C5-N7	-5.15	108.74	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	AU	72	ARG	CA-CB-CG	5.15	124.72	113.40
25	BA	71	C	C5-C4-N4	-5.15	116.60	120.20
26	BB	180	G	C6-C5-N7	-5.15	127.31	130.40
26	BB	292	U	C2-N3-C4	-5.15	123.91	127.00
26	BB	619	G	N9-C1'-C2'	-5.15	106.34	112.00
26	BB	976	G	N3-C2-N2	-5.15	116.30	119.90
26	BB	1097	U	C3'-C2'-C1'	-5.15	97.38	101.50
26	BB	1189	A	C1'-O4'-C4'	5.15	114.02	109.90
26	BB	1270	C	C3'-C2'-C1'	5.15	105.62	101.50
26	BB	1869	G	C5-C6-O6	-5.15	125.51	128.60
26	BB	2117	A	N9-C4-C5	-5.15	103.74	105.80
26	BB	2252	G	N3-C2-N2	-5.15	116.30	119.90
26	BB	2294	G	P-O3'-C3'	5.15	125.88	119.70
26	BB	2302	U	O4'-C1'-N1	5.15	112.32	108.20
26	BB	2401	U	N3-C2-O2	-5.15	118.60	122.20
26	BB	2530	A	N9-C4-C5	5.15	107.86	105.80
26	BB	2540	C	C4'-C3'-C2'	-5.15	97.45	102.60
26	BB	2760	C	O5'-P-OP2	-5.15	101.07	105.70
26	BB	2786	U	OP2-P-O3'	5.15	116.53	105.20
48	BX	56	PHE	CB-CG-CD1	-5.15	117.20	120.80
51	B0	52	ARG	CD-NE-CZ	5.15	130.81	123.60
1	AA	814	A	O4'-C1'-C2'	-5.15	100.65	105.80
1	AA	1142	G	N1-C6-O6	-5.15	116.81	119.90
1	AA	1300	G	P-O3'-C3'	5.15	125.88	119.70
4	AD	28	U	C5'-C4'-C3'	-5.15	107.77	116.00
4	AD	44	A	N7-C8-N9	-5.15	111.23	113.80
26	BB	651	G	P-O3'-C3'	5.15	125.88	119.70
26	BB	898	C	C5-C4-N4	-5.15	116.60	120.20
26	BB	1966	A	O4'-C1'-C2'	-5.15	100.65	105.80
1	AA	557	G	C2-N3-C4	5.14	114.47	111.90
1	AA	667	G	C5-C6-N1	5.14	114.07	111.50
1	AA	888	G	N3-C4-C5	-5.14	126.03	128.60
1	AA	1050	G	N1-C2-N2	-5.14	111.57	116.20
1	AA	1087	G	C5'-C4'-O4'	5.14	115.27	109.10
1	AA	1325	C	C2-N3-C4	-5.14	117.33	119.90
2	AB	52	A	C8-N9-C4	5.14	107.86	105.80
3	AC	21	U	C2-N3-C4	5.14	130.09	127.00
26	BB	424	G	C5-C6-O6	-5.14	125.51	128.60
26	BB	485	C	O4'-C4'-C3'	-5.14	98.86	104.00
26	BB	495	G	P-O3'-C3'	5.14	125.87	119.70
26	BB	557	C	C4'-C3'-C2'	-5.14	97.45	102.60
26	BB	564	C	C4-C5-C6	-5.14	114.83	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1263	U	C4'-C3'-C2'	5.14	107.75	102.60
26	BB	1349	C	C3'-C2'-C1'	5.14	105.61	101.50
26	BB	1425	G	O4'-C1'-C2'	5.14	112.23	107.60
26	BB	1501	G	C4-C5-N7	5.14	112.86	110.80
26	BB	2116	G	C6-N1-C2	5.14	128.19	125.10
26	BB	2645	G	N1-C2-N2	5.14	120.83	116.20
26	BB	2841	C	N3-C2-O2	-5.14	118.30	121.90
29	BE	90	PHE	N-CA-CB	5.14	119.86	110.60
1	AA	34	C	C2-N3-C4	-5.14	117.33	119.90
1	AA	99	C	C2-N3-C4	5.14	122.47	119.90
1	AA	127	G	C4-N9-C1'	-5.14	119.81	126.50
1	AA	330	C	C2-N3-C4	5.14	122.47	119.90
1	AA	481	G	N1-C2-N2	-5.14	111.57	116.20
1	AA	633	G	N1-C6-O6	5.14	122.99	119.90
1	AA	666	G	O4'-C4'-C3'	5.14	110.21	106.10
1	AA	670	G	C5-N7-C8	5.14	106.87	104.30
1	AA	733	G	N3-C4-C5	-5.14	126.03	128.60
1	AA	953	G	C2-N3-C4	5.14	114.47	111.90
1	AA	1429	A	C2-N3-C4	5.14	113.17	110.60
1	AA	1536	C	C4'-C3'-C2'	-5.14	97.46	102.60
22	AV	35	ARG	NE-CZ-NH1	-5.14	117.73	120.30
26	BB	568	U	O4'-C1'-C2'	5.14	112.23	107.60
26	BB	954	G	C5-N7-C8	-5.14	101.73	104.30
26	BB	1479	G	P-O3'-C3'	5.14	125.87	119.70
26	BB	1710	G	O4'-C1'-N9	5.14	112.31	108.20
26	BB	1766	G	N3-C4-C5	-5.14	126.03	128.60
26	BB	1938	A	O4'-C1'-N9	5.14	112.31	108.20
26	BB	2133	G	C2-N3-C4	5.14	114.47	111.90
26	BB	2430	A	C1'-O4'-C4'	-5.14	105.79	109.90
26	BB	2473	U	C2'-C3'-O3'	5.14	121.93	113.70
26	BB	2493	U	N3-C2-O2	-5.14	118.60	122.20
26	BB	2650	U	C1'-O4'-C4'	5.14	114.01	109.90
26	BB	2717	C	N1-C1'-C2'	-5.14	106.34	112.00
1	AA	17	U	C1'-O4'-C4'	5.14	114.01	109.90
1	AA	51	A	C6-N1-C2	-5.14	115.52	118.60
1	AA	531	U	N1-C2-N3	5.14	117.98	114.90
1	AA	566	G	N1-C6-O6	5.14	122.98	119.90
1	AA	733	G	C5-C6-O6	-5.14	125.52	128.60
1	AA	1186	G	C5-N7-C8	-5.14	101.73	104.30
1	AA	1511	G	C5'-C4'-O4'	5.14	115.27	109.10
1	AA	1540	U	N1-C2-N3	5.14	117.98	114.90
26	BB	421	C	N3-C4-C5	5.14	123.96	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	572	A	O4'-C1'-C2'	-5.14	100.66	105.80
26	BB	678	C	C4-C5-C6	-5.14	114.83	117.40
26	BB	763	G	C2'-C3'-O3'	5.14	121.93	113.70
26	BB	1026	G	C6-N1-C2	-5.14	122.02	125.10
26	BB	1126	A	P-O3'-C3'	5.14	125.87	119.70
26	BB	1497	U	C2-N3-C4	5.14	130.08	127.00
26	BB	1617	C	C4-C5-C6	5.14	119.97	117.40
26	BB	2395	C	N3-C2-O2	-5.14	118.30	121.90
26	BB	2574	G	N3-C4-C5	-5.14	126.03	128.60
1	AA	94	G	C5-N7-C8	-5.14	101.73	104.30
1	AA	160	A	C6-N1-C2	-5.14	115.52	118.60
1	AA	409	U	C5-C6-N1	5.14	125.27	122.70
1	AA	460	A	C2-N3-C4	-5.14	108.03	110.60
1	AA	476	U	OP2-P-O3'	5.14	116.51	105.20
1	AA	580	C	N1-C2-O2	5.14	121.98	118.90
4	AD	43	G	C4-N9-C1'	-5.14	119.82	126.50
25	BA	51	G	N3-C4-N9	5.14	129.08	126.00
26	BB	548	G	O5'-P-OP2	-5.14	101.08	105.70
26	BB	724	U	C5-C4-O4	-5.14	122.82	125.90
26	BB	818	G	N9-C1'-C2'	-5.14	106.35	112.00
26	BB	1685	C	O3'-P-O5'	5.14	113.77	104.00
26	BB	1818	U	C6-N1-C1'	-5.14	114.00	121.20
26	BB	1859	U	C5'-C4'-O4'	5.14	115.27	109.10
26	BB	2310	C	N1-C1'-C2'	5.14	120.68	114.00
26	BB	2624	G	N3-C4-C5	-5.14	126.03	128.60
26	BB	2702	G	C5-C6-O6	5.14	131.68	128.60
1	AA	120	A	C5-N7-C8	5.14	106.47	103.90
1	AA	641	U	C5-C4-O4	5.14	128.98	125.90
1	AA	977	A	O4'-C1'-N9	5.14	112.31	108.20
1	AA	1521	C	C1'-O4'-C4'	-5.14	105.79	109.90
12	AL	17	ARG	NE-CZ-NH2	-5.14	117.73	120.30
18	AR	56	LEU	CB-CG-CD1	5.14	119.73	111.00
25	BA	52	A	C5-N7-C8	5.14	106.47	103.90
26	BB	2049	G	C5-C6-N1	5.14	114.07	111.50
26	BB	2486	C	C4'-C3'-C2'	-5.14	97.46	102.60
26	BB	2728	U	N3-C2-O2	-5.14	118.60	122.20
1	AA	60	A	C8-N9-C4	-5.14	103.75	105.80
1	AA	348	G	C6-N1-C2	-5.14	122.02	125.10
1	AA	614	C	O4'-C4'-C3'	-5.14	98.86	104.00
1	AA	1090	U	C5-C6-N1	-5.14	120.13	122.70
1	AA	1343	G	C4-C5-C6	5.14	121.88	118.80
1	AA	1475	G	O4'-C1'-N9	5.14	112.31	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	16	A	C4'-C3'-C2'	-5.14	97.46	102.60
4	AD	68	C	O5'-P-OP2	-5.14	101.08	105.70
4	AD	71	G	C5-C6-N1	-5.14	108.93	111.50
23	AW	14	GLU	OE1-CD-OE2	5.14	129.46	123.30
26	BB	532	A	C5'-C4'-C3'	-5.14	107.78	116.00
26	BB	686	U	C6-N1-C2	-5.14	117.92	121.00
26	BB	1074	G	N1-C6-O6	5.14	122.98	119.90
26	BB	1082	U	C5'-C4'-C3'	-5.14	107.78	116.00
26	BB	1250	G	C1'-O4'-C4'	5.14	114.01	109.90
26	BB	1260	A	C5'-C4'-O4'	5.14	115.26	109.10
26	BB	1590	A	C5-N7-C8	-5.14	101.33	103.90
26	BB	2505	G	OP2-P-O3'	5.14	116.50	105.20
26	BB	2808	G	N3-C4-C5	5.14	131.17	128.60
31	BG	166	ARG	NH1-CZ-NH2	-5.14	113.75	119.40
1	AA	13	U	N3-C4-C5	5.13	117.68	114.60
1	AA	33	A	P-O3'-C3'	5.13	125.86	119.70
1	AA	67	C	N3-C2-O2	-5.13	118.31	121.90
1	AA	156	C	N1-C2-O2	5.13	121.98	118.90
1	AA	293	G	C5-C6-O6	5.13	131.68	128.60
1	AA	377	G	P-O5'-C5'	5.13	129.12	120.90
1	AA	538	G	N7-C8-N9	5.13	115.67	113.10
1	AA	637	C	N3-C2-O2	-5.13	118.31	121.90
1	AA	812	G	O3'-P-O5'	-5.13	94.25	104.00
1	AA	912	C	O4'-C4'-C3'	-5.13	98.86	104.00
1	AA	990	C	P-O3'-C3'	5.13	125.86	119.70
1	AA	1248	A	C3'-C2'-C1'	5.13	105.61	101.50
1	AA	1419	G	N1-C2-N2	5.13	120.82	116.20
1	AA	1494	G	C6-N1-C2	5.13	128.18	125.10
26	BB	126	A	C2'-C3'-O3'	5.13	121.92	113.70
26	BB	466	A	C5-N7-C8	-5.13	101.33	103.90
26	BB	1330	C	O4'-C1'-N1	5.13	112.31	108.20
26	BB	1408	G	C6-N1-C2	-5.13	122.02	125.10
26	BB	1610	A	C8-N9-C4	-5.13	103.75	105.80
26	BB	2557	G	C5'-C4'-O4'	5.13	115.26	109.10
26	BB	2739	U	C5'-C4'-O4'	5.13	115.26	109.10
26	BB	2743	U	C2-N3-C4	-5.13	123.92	127.00
26	BB	2756	U	N1-C2-O2	5.13	126.39	122.80
44	BT	38	VAL	CB-CA-C	5.13	121.16	111.40
52	B1	37	ARG	NE-CZ-NH1	5.13	122.87	120.30
1	AA	548	G	C5-N7-C8	-5.13	101.73	104.30
1	AA	746	A	C4-C5-C6	-5.13	114.43	117.00
15	AO	114	SER	O-C-N	5.13	130.91	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	32	C	C5-C4-N4	-5.13	116.61	120.20
26	BB	122	G	C4'-C3'-C2'	-5.13	97.47	102.60
26	BB	503	A	C3'-C2'-C1'	-5.13	97.39	101.50
26	BB	725	G	C5-C6-O6	5.13	131.68	128.60
26	BB	888	C	N1-C1'-C2'	-5.13	106.35	112.00
26	BB	989	G	C1'-O4'-C4'	-5.13	105.79	109.90
26	BB	2321	U	N1-C2-O2	-5.13	119.21	122.80
26	BB	2699	C	N3-C4-N4	5.13	121.59	118.00
1	AA	201	G	N9-C1'-C2'	-5.13	106.36	112.00
1	AA	380	G	C5-C6-N1	-5.13	108.93	111.50
1	AA	407	U	C5'-C4'-C3'	-5.13	107.79	116.00
1	AA	410	G	O4'-C1'-C2'	-5.13	100.67	105.80
1	AA	471	U	O3'-P-O5'	5.13	113.75	104.00
1	AA	879	C	C6-N1-C2	-5.13	118.25	120.30
1	AA	1151	A	C8-N9-C4	-5.13	103.75	105.80
1	AA	1418	A	N1-C6-N6	5.13	121.68	118.60
26	BB	218	A	N1-C6-N6	5.13	121.68	118.60
26	BB	354	A	N7-C8-N9	5.13	116.36	113.80
26	BB	467	G	C5-C6-N1	-5.13	108.93	111.50
26	BB	642	U	N3-C4-O4	-5.13	115.81	119.40
26	BB	1077	A	C3'-C2'-C1'	-5.13	97.39	101.50
26	BB	1106	G	N3-C4-C5	-5.13	126.03	128.60
26	BB	1272	A	C3'-C2'-C1'	5.13	105.61	101.50
26	BB	1431	A	C1'-O4'-C4'	5.13	114.00	109.90
26	BB	1797	G	C4'-C3'-C2'	-5.13	97.47	102.60
26	BB	1844	C	O4'-C4'-C3'	-5.13	98.87	104.00
26	BB	2065	C	C5-C6-N1	-5.13	118.43	121.00
30	BF	186	VAL	CB-CA-C	5.13	121.15	111.40
31	BG	158	THR	CA-CB-OG1	5.13	119.78	109.00
36	BL	99	ARG	CD-NE-CZ	5.13	130.78	123.60
1	AA	422	C	N1-C2-N3	-5.13	115.61	119.20
1	AA	585	G	O4'-C1'-N9	5.13	112.30	108.20
1	AA	876	C	C6-N1-C1'	5.13	126.96	120.80
1	AA	1009	U	C2-N3-C4	-5.13	123.92	127.00
1	AA	1441	A	C5'-C4'-O4'	5.13	115.26	109.10
18	AR	62	ARG	NE-CZ-NH1	-5.13	117.73	120.30
26	BB	531	C	N3-C2-O2	-5.13	118.31	121.90
26	BB	538	A	C5'-C4'-C3'	-5.13	107.79	116.00
26	BB	573	U	N3-C4-O4	-5.13	115.81	119.40
26	BB	781	A	C5-N7-C8	-5.13	101.33	103.90
26	BB	1653	G	N1-C6-O6	-5.13	116.82	119.90
26	BB	2447	G	N9-C1'-C2'	5.13	120.67	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2903	U	C2-N3-C4	-5.13	123.92	127.00
33	BI	63	ALA	CB-CA-C	5.13	117.79	110.10
34	BJ	63	VAL	CG1-CB-CG2	5.13	119.11	110.90
1	AA	38	G	N1-C2-N2	-5.13	111.58	116.20
1	AA	89	U	N3-C4-C5	-5.13	111.52	114.60
1	AA	155	A	C5-N7-C8	-5.13	101.34	103.90
1	AA	155	A	O5'-P-OP2	-5.13	101.08	105.70
1	AA	222	C	C5-C4-N4	-5.13	116.61	120.20
1	AA	491	G	P-O3'-C3'	5.13	125.86	119.70
1	AA	985	C	C3'-C2'-C1'	-5.13	97.40	101.50
1	AA	1380	U	C3'-C2'-C1'	-5.13	97.40	101.50
4	AD	57	C	C2-N3-C4	5.13	122.46	119.90
26	BB	262	A	N1-C2-N3	5.13	131.87	129.30
26	BB	392	U	C4-C5-C6	5.13	122.78	119.70
26	BB	772	C	O4'-C1'-N1	5.13	112.30	108.20
26	BB	1555	G	C2-N3-C4	5.13	114.46	111.90
26	BB	1654	A	N1-C2-N3	5.13	131.86	129.30
26	BB	1786	A	C4-C5-N7	5.13	113.26	110.70
26	BB	1860	G	C4-C5-N7	5.13	112.85	110.80
26	BB	2331	G	C6-N1-C2	-5.13	122.02	125.10
26	BB	2373	G	O4'-C1'-N9	5.13	112.30	108.20
26	BB	2545	G	N1-C6-O6	-5.13	116.82	119.90
26	BB	2756	U	P-O3'-C3'	5.13	125.85	119.70
26	BB	2773	C	N1-C2-O2	5.13	121.98	118.90
26	BB	2807	U	N3-C4-C5	5.13	117.68	114.60
26	BB	2846	G	C5'-C4'-O4'	5.13	115.25	109.10
49	BY	38	ARG	NE-CZ-NH1	5.13	122.86	120.30
1	AA	119	A	O4'-C4'-C3'	5.13	110.20	106.10
1	AA	187	G	C2'-C3'-O3'	5.13	121.90	113.70
1	AA	209	U	C4-C5-C6	5.13	122.78	119.70
1	AA	349	A	C4-C5-N7	-5.13	108.14	110.70
1	AA	356	A	C5'-C4'-O4'	5.13	115.25	109.10
18	AR	7	THR	CA-CB-CG2	5.13	119.58	112.40
26	BB	156	A	C3'-C2'-C1'	-5.13	97.40	101.50
26	BB	192	C	N1-C2-N3	-5.13	115.61	119.20
26	BB	385	C	O4'-C4'-C3'	5.13	110.20	106.10
26	BB	408	G	C4-C5-N7	5.13	112.85	110.80
26	BB	717	C	N1-C2-N3	5.13	122.79	119.20
26	BB	839	U	N3-C4-O4	-5.13	115.81	119.40
26	BB	840	C	N3-C2-O2	-5.13	118.31	121.90
26	BB	1660	G	N7-C8-N9	5.13	115.66	113.10
26	BB	1669	A	C8-N9-C4	-5.13	103.75	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2181	U	N3-C2-O2	-5.13	118.61	122.20
26	BB	2295	C	C4-C5-C6	5.13	119.96	117.40
26	BB	2344	U	O4'-C1'-C2'	-5.13	100.67	105.80
26	BB	2560	A	O4'-C1'-C2'	5.13	112.21	107.60
26	BB	2625	G	C6-N1-C2	-5.13	122.02	125.10
32	BH	96	ALA	N-CA-CB	-5.13	102.92	110.10
2	AB	73	G	C2-N3-C4	5.12	114.46	111.90
26	BB	1020	A	N1-C2-N3	-5.12	126.74	129.30
26	BB	1022	G	C5'-C4'-C3'	-5.12	107.80	116.00
26	BB	2268	A	C4'-C3'-C2'	-5.12	97.47	102.60
1	AA	62	U	C2'-C3'-O3'	5.12	121.90	113.70
1	AA	605	U	N1-C1'-C2'	-5.12	106.36	112.00
1	AA	724	G	O5'-P-OP2	-5.12	101.09	105.70
1	AA	840	C	N1-C2-O2	5.12	121.97	118.90
1	AA	997	U	P-O3'-C3'	5.12	125.85	119.70
1	AA	1033	G	C4-C5-C6	5.12	121.88	118.80
1	AA	1046	A	N3-C4-C5	-5.12	123.21	126.80
1	AA	1292	G	C4'-C3'-C2'	-5.12	97.48	102.60
2	AB	71	C	O4'-C1'-N1	5.12	112.30	108.20
7	AG	125	ASN	N-CA-CB	5.12	119.82	110.60
9	AI	123	ASP	CB-CG-OD1	5.12	122.91	118.30
12	AL	6	TYR	CG-CD2-CE2	5.12	125.40	121.30
26	BB	1544	A	C8-N9-C4	-5.12	103.75	105.80
26	BB	1727	C	N3-C2-O2	-5.12	118.31	121.90
26	BB	1785	A	N3-C4-C5	-5.12	123.21	126.80
26	BB	1992	G	N3-C2-N2	-5.12	116.31	119.90
26	BB	2424	C	N3-C2-O2	-5.12	118.31	121.90
26	BB	2831	G	N3-C4-C5	-5.12	126.04	128.60
1	AA	122	G	N1-C2-N2	-5.12	111.59	116.20
1	AA	704	A	C1'-O4'-C4'	5.12	114.00	109.90
1	AA	926	G	N1-C2-N2	-5.12	111.59	116.20
1	AA	1184	G	N1-C2-N2	5.12	120.81	116.20
1	AA	1280	A	C5-C6-N6	-5.12	119.60	123.70
1	AA	1327	C	C2-N1-C1'	-5.12	113.17	118.80
1	AA	1429	A	N3-C4-C5	-5.12	123.22	126.80
25	BA	117	G	N1-C2-N2	5.12	120.81	116.20
26	BB	152	A	C8-N9-C4	-5.12	103.75	105.80
26	BB	250	G	C8-N9-C1'	5.12	133.66	127.00
26	BB	277	G	N1-C6-O6	5.12	122.97	119.90
26	BB	626	A	N1-C6-N6	5.12	121.67	118.60
26	BB	905	A	C5-N7-C8	5.12	106.46	103.90
26	BB	1321	A	N1-C2-N3	-5.12	126.74	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1599	U	O4'-C4'-C3'	5.12	110.20	106.10
26	BB	1699	G	N3-C4-N9	5.12	129.07	126.00
26	BB	1965	C	C5-C6-N1	5.12	123.56	121.00
26	BB	1980	G	N3-C4-N9	5.12	129.07	126.00
26	BB	2001	C	C5-C6-N1	-5.12	118.44	121.00
26	BB	2001	C	N3-C4-C5	-5.12	119.85	121.90
26	BB	2182	U	C1'-O4'-C4'	-5.12	105.80	109.90
26	BB	2342	C	C5-C4-N4	-5.12	116.61	120.20
26	BB	2493	U	P-O3'-C3'	-5.12	113.55	119.70
26	BB	2749	A	OP2-P-O3'	5.12	116.47	105.20
57	B6	22	LYS	CA-CB-CG	5.12	124.67	113.40
1	AA	881	G	N3-C4-N9	5.12	129.07	126.00
1	AA	1130	A	C6-C5-N7	5.12	135.88	132.30
1	AA	1508	A	C5-C6-N6	-5.12	119.60	123.70
2	AB	11	U	C4'-C3'-C2'	-5.12	97.48	102.60
26	BB	295	G	C1'-O4'-C4'	-5.12	105.80	109.90
26	BB	413	C	N3-C4-C5	-5.12	119.85	121.90
26	BB	670	A	C8-N9-C4	-5.12	103.75	105.80
26	BB	871	U	C4'-C3'-C2'	-5.12	97.48	102.60
26	BB	898	C	N1-C2-O2	5.12	121.97	118.90
26	BB	2160	C	C5'-C4'-O4'	5.12	115.24	109.10
39	BO	96	ILE	CA-CB-CG1	5.12	120.73	111.00
1	AA	113	G	C4'-C3'-C2'	-5.12	97.48	102.60
1	AA	135	C	C5'-C4'-O4'	5.12	115.24	109.10
1	AA	198	G	C5-C6-N1	5.12	114.06	111.50
1	AA	265	G	C4'-C3'-C2'	5.12	107.72	102.60
1	AA	1114	C	P-O3'-C3'	5.12	125.84	119.70
1	AA	1181	G	C4'-C3'-C2'	-5.12	97.48	102.60
1	AA	1336	C	N1-C2-N3	5.12	122.78	119.20
1	AA	1404	C	C3'-C2'-C1'	5.12	105.59	101.50
1	AA	1502	A	C5-C6-N1	5.12	120.26	117.70
6	AF	137	VAL	CA-CB-CG1	5.12	118.58	110.90
26	BB	216	A	C4-C5-N7	5.12	113.26	110.70
26	BB	594	U	C2-N3-C4	-5.12	123.93	127.00
26	BB	696	G	C3'-C2'-C1'	5.12	105.59	101.50
26	BB	743	A	C3'-C2'-C1'	-5.12	97.41	101.50
26	BB	1194	A	C4'-C3'-C2'	-5.12	97.48	102.60
26	BB	1271	G	C5-C6-N1	-5.12	108.94	111.50
26	BB	1845	G	C2'-C3'-O3'	5.12	121.89	113.70
26	BB	1850	G	C4-C5-N7	-5.12	108.75	110.80
26	BB	2446	G	N1-C2-N3	-5.12	120.83	123.90
26	BB	2493	U	N1-C2-N3	5.12	117.97	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2582	G	C5-C6-N1	-5.12	108.94	111.50
1	AA	150	U	C5'-C4'-C3'	5.12	124.19	116.00
1	AA	742	G	C8-N9-C1'	5.12	133.65	127.00
1	AA	1193	G	C5'-C4'-O4'	5.12	115.24	109.10
26	BB	862	G	P-O3'-C3'	5.12	125.84	119.70
26	BB	1129	A	C4-C5-N7	-5.12	108.14	110.70
26	BB	2725	A	N9-C4-C5	-5.12	103.75	105.80
26	BB	2808	G	C6-C5-N7	-5.12	127.33	130.40
50	BZ	38	TRP	NE1-CE2-CD2	-5.12	102.18	107.30
1	AA	192	A	N1-C6-N6	5.12	121.67	118.60
1	AA	290	C	N3-C4-N4	5.12	121.58	118.00
1	AA	494	G	N1-C6-O6	-5.12	116.83	119.90
1	AA	560	A	N3-C4-C5	5.12	130.38	126.80
1	AA	689	C	N3-C2-O2	-5.12	118.32	121.90
1	AA	933	G	C4'-C3'-C2'	-5.12	97.48	102.60
1	AA	1381	U	C2-N3-C4	-5.12	123.93	127.00
6	AF	166	TRP	CZ3-CH2-CZ2	-5.12	115.46	121.60
22	AV	13	HIS	CA-C-O	-5.12	109.36	120.10
26	BB	11	C	C3'-C2'-C1'	5.12	105.59	101.50
26	BB	382	A	P-O3'-C3'	5.12	125.84	119.70
26	BB	2398	U	C6-N1-C2	-5.12	117.93	121.00
26	BB	2732	G	C5-C6-O6	-5.12	125.53	128.60
31	BG	98	PHE	CB-CG-CD1	5.12	124.38	120.80
45	BU	59	GLU	OE1-CD-OE2	5.12	129.44	123.30
1	AA	142	G	C5-C6-N1	5.11	114.06	111.50
1	AA	287	U	C4-C5-C6	5.11	122.77	119.70
1	AA	369	G	C4-C5-N7	-5.11	108.75	110.80
1	AA	422	C	O4'-C1'-C2'	-5.11	100.69	105.80
1	AA	500	G	C2-N3-C4	5.11	114.46	111.90
1	AA	590	U	C5'-C4'-O4'	5.11	115.24	109.10
1	AA	788	U	N3-C4-O4	-5.11	115.82	119.40
1	AA	814	A	C1'-O4'-C4'	5.11	113.99	109.90
1	AA	1158	C	C5-C4-N4	-5.11	116.62	120.20
1	AA	1484	C	C5-C4-N4	-5.11	116.62	120.20
14	AN	74	LYS	CB-CA-C	5.11	120.63	110.40
21	AU	69	TYR	CG-CD2-CE2	-5.11	117.21	121.30
25	BA	106	G	C4-C5-N7	5.11	112.84	110.80
26	BB	255	A	C5-C6-N1	5.11	120.26	117.70
26	BB	667	U	N3-C4-C5	5.11	117.67	114.60
26	BB	1086	A	P-O3'-C3'	5.11	125.84	119.70
26	BB	1117	C	P-O3'-C3'	5.11	125.83	119.70
26	BB	1275	A	C5-N7-C8	5.11	106.46	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1324	G	N1-C2-N2	5.11	120.80	116.20
26	BB	1342	A	C5-N7-C8	5.11	106.46	103.90
26	BB	1814	G	C6-C5-N7	-5.11	127.33	130.40
26	BB	1949	G	C5'-C4'-O4'	5.11	115.24	109.10
26	BB	1967	C	N1-C2-O2	5.11	121.97	118.90
26	BB	2322	A	P-O3'-C3'	5.11	125.84	119.70
26	BB	2450	A	C5-C6-N6	-5.11	119.61	123.70
26	BB	2692	G	O4'-C1'-N9	5.11	112.29	108.20
1	AA	1186	G	O4'-C4'-C3'	5.11	110.19	106.10
14	AN	15	VAL	CG1-CB-CG2	-5.11	102.72	110.90
26	BB	545	U	C2-N1-C1'	5.11	123.83	117.70
26	BB	780	G	C5-C6-N1	5.11	114.06	111.50
26	BB	1280	G	N1-C2-N3	-5.11	120.83	123.90
26	BB	1396	U	C5'-C4'-C3'	5.11	124.18	116.00
1	AA	251	G	N9-C4-C5	5.11	107.44	105.40
1	AA	413	G	C8-N9-C1'	5.11	133.64	127.00
1	AA	958	A	C4-C5-C6	-5.11	114.44	117.00
1	AA	1165	U	C4'-C3'-C2'	-5.11	97.49	102.60
1	AA	1245	C	C5-C4-N4	5.11	123.78	120.20
4	AD	30	G	C6-N1-C2	-5.11	122.03	125.10
24	AX	9	GLU	OE1-CD-OE2	5.11	129.43	123.30
26	BB	81	G	C4-C5-C6	5.11	121.87	118.80
26	BB	463	G	C8-N9-C4	-5.11	104.36	106.40
26	BB	700	G	N3-C2-N2	-5.11	116.32	119.90
26	BB	789	A	C4-C5-N7	-5.11	108.14	110.70
26	BB	865	C	C6-N1-C2	-5.11	118.26	120.30
26	BB	892	A	N1-C2-N3	-5.11	126.75	129.30
26	BB	1012	U	N3-C4-O4	5.11	122.98	119.40
26	BB	1041	G	C4-C5-N7	5.11	112.84	110.80
26	BB	1972	G	C6-N1-C2	-5.11	122.03	125.10
26	BB	2485	G	C4'-C3'-C2'	-5.11	97.49	102.60
30	BF	83	VAL	CA-CB-CG1	5.11	118.56	110.90
41	BQ	30	ARG	NE-CZ-NH1	5.11	122.86	120.30
42	BR	106	ALA	CB-CA-C	5.11	117.77	110.10
1	AA	616	G	C8-N9-C1'	5.11	133.64	127.00
1	AA	1515	G	N9-C1'-C2'	-5.11	106.38	112.00
26	BB	187	G	N9-C1'-C2'	-5.11	106.38	112.00
26	BB	342	A	N9-C4-C5	-5.11	103.76	105.80
26	BB	565	C	N1-C2-O2	5.11	121.97	118.90
26	BB	607	U	P-O3'-C3'	5.11	125.83	119.70
26	BB	2540	C	C6-N1-C2	-5.11	118.26	120.30
26	BB	2583	G	C5'-C4'-O4'	5.11	115.23	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	55	A	N3-C4-N9	-5.11	123.31	127.40
1	AA	116	A	N1-C6-N6	5.11	121.66	118.60
1	AA	215	C	N3-C2-O2	-5.11	118.32	121.90
1	AA	316	C	C4'-C3'-C2'	5.11	107.71	102.60
1	AA	886	G	C3'-C2'-C1'	5.11	105.59	101.50
1	AA	1115	U	C4'-C3'-C2'	-5.11	97.49	102.60
4	AD	49	C	C6-N1-C1'	-5.11	114.67	120.80
8	AH	143	LEU	CB-CA-C	5.11	119.90	110.20
26	BB	298	G	C2-N3-C4	5.11	114.45	111.90
26	BB	1291	C	N1-C2-O2	5.11	121.96	118.90
26	BB	1398	C	C4-C5-C6	5.11	119.95	117.40
26	BB	1862	G	N9-C4-C5	5.11	107.44	105.40
26	BB	2525	G	N3-C4-N9	-5.11	122.94	126.00
1	AA	108	G	C2-N3-C4	5.11	114.45	111.90
1	AA	285	C	C4'-C3'-C2'	-5.11	97.50	102.60
1	AA	670	G	P-O3'-C3'	5.11	125.83	119.70
1	AA	844	G	P-O3'-C3'	5.11	125.83	119.70
1	AA	1072	G	N3-C4-N9	5.11	129.06	126.00
1	AA	1162	C	N3-C2-O2	-5.11	118.33	121.90
1	AA	1494	G	C5'-C4'-C3'	-5.11	107.83	116.00
2	AB	28	C	C5-C4-N4	5.11	123.77	120.20
3	AC	25	U	N1-C1'-C2'	-5.11	106.39	112.00
25	BA	65	U	N3-C4-O4	-5.11	115.83	119.40
26	BB	80	G	C2-N3-C4	5.11	114.45	111.90
26	BB	441	U	P-O3'-C3'	5.11	125.83	119.70
26	BB	722	A	C3'-C2'-C1'	-5.11	97.42	101.50
26	BB	920	A	N1-C6-N6	5.11	121.66	118.60
26	BB	1016	G	C5'-C4'-O4'	5.11	115.23	109.10
26	BB	1289	C	C2-N3-C4	5.11	122.45	119.90
26	BB	1309	G	N3-C4-C5	-5.11	126.05	128.60
26	BB	1419	A	O4'-C1'-C2'	5.11	112.19	107.60
26	BB	1599	U	C1'-O4'-C4'	-5.11	105.82	109.90
26	BB	2145	C	C5'-C4'-C3'	-5.11	107.83	116.00
26	BB	2365	G	O4'-C1'-N9	5.11	112.28	108.20
26	BB	2427	C	P-O5'-C5'	5.11	129.07	120.90
26	BB	2472	G	N9-C4-C5	5.11	107.44	105.40
26	BB	2865	U	C4-C5-C6	5.11	122.76	119.70
1	AA	204	G	P-O3'-C3'	5.10	125.83	119.70
1	AA	248	C	N1-C2-O2	5.10	121.96	118.90
1	AA	514	C	N1-C2-O2	-5.10	115.84	118.90
1	AA	534	U	OP2-P-O3'	5.10	116.43	105.20
1	AA	793	U	C5'-C4'-O4'	5.10	115.22	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1227	A	C4-C5-C6	5.10	119.55	117.00
26	BB	2204	G	C5'-C4'-O4'	5.10	115.22	109.10
1	AA	87	C	N3-C4-C5	-5.10	119.86	121.90
1	AA	338	A	C8-N9-C4	-5.10	103.76	105.80
1	AA	433	G	C8-N9-C4	-5.10	104.36	106.40
1	AA	627	G	C8-N9-C1'	5.10	133.63	127.00
1	AA	740	U	C6-N1-C2	5.10	124.06	121.00
1	AA	791	G	N9-C4-C5	5.10	107.44	105.40
2	AB	51	G	C2-N3-C4	5.10	114.45	111.90
2	AB	61	C	C2-N3-C4	5.10	122.45	119.90
12	AL	54	VAL	CG1-CB-CG2	5.10	119.06	110.90
25	BA	88	C	P-O5'-C5'	5.10	129.06	120.90
25	BA	102	G	O4'-C1'-C2'	-5.10	100.70	105.80
26	BB	55	G	C5'-C4'-O4'	5.10	115.22	109.10
26	BB	453	A	C4'-C3'-O3'	5.10	123.21	113.00
26	BB	512	G	C8-N9-C4	-5.10	104.36	106.40
26	BB	934	U	N3-C2-O2	-5.10	118.63	122.20
26	BB	1011	G	C4-N9-C1'	-5.10	119.87	126.50
26	BB	2200	C	N1-C2-O2	5.10	121.96	118.90
26	BB	2376	A	N1-C2-N3	5.10	131.85	129.30
26	BB	2523	G	C2-N3-C4	5.10	114.45	111.90
1	AA	867	G	N7-C8-N9	-5.10	110.55	113.10
1	AA	900	A	C5-C6-N1	5.10	120.25	117.70
1	AA	1337	G	C4-C5-N7	-5.10	108.76	110.80
25	BA	34	A	N7-C8-N9	-5.10	111.25	113.80
28	BD	3	VAL	CG1-CB-CG2	-5.10	102.74	110.90
1	AA	488	C	C5-C6-N1	5.10	123.55	121.00
1	AA	821	G	C4-C5-N7	5.10	112.84	110.80
1	AA	946	A	N1-C2-N3	-5.10	126.75	129.30
9	AI	64	VAL	O-C-N	5.10	130.86	122.70
25	BA	38	C	O4'-C1'-N1	5.10	112.28	108.20
26	BB	134	G	C6-C5-N7	5.10	133.46	130.40
26	BB	161	A	C4-C5-C6	5.10	119.55	117.00
26	BB	204	A	C4'-C3'-C2'	-5.10	97.50	102.60
26	BB	267	C	C4'-C3'-C2'	-5.10	97.50	102.60
26	BB	513	A	O3'-P-O5'	-5.10	94.31	104.00
26	BB	739	A	O4'-C4'-C3'	5.10	110.18	106.10
26	BB	742	A	C4'-C3'-C2'	-5.10	97.50	102.60
26	BB	915	C	N3-C2-O2	-5.10	118.33	121.90
26	BB	998	C	C2'-C3'-O3'	5.10	121.86	113.70
26	BB	1633	G	N1-C2-N3	5.10	126.96	123.90
26	BB	1890	A	N9-C4-C5	5.10	107.84	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2173	A	C1'-O4'-C4'	-5.10	105.82	109.90
26	BB	2604	U	C5'-C4'-O4'	5.10	115.22	109.10
26	BB	2657	A	C1'-O4'-C4'	-5.10	105.82	109.90
1	AA	200	G	N7-C8-N9	5.10	115.65	113.10
1	AA	297	G	N3-C4-N9	-5.10	122.94	126.00
1	AA	605	U	C4-C5-C6	-5.10	116.64	119.70
1	AA	801	U	N1-C2-O2	-5.10	119.23	122.80
1	AA	1281	C	C2-N3-C4	5.10	122.45	119.90
25	BA	45	A	N1-C6-N6	5.10	121.66	118.60
26	BB	318	C	O4'-C1'-C2'	-5.10	100.70	105.80
26	BB	825	A	C4-C5-N7	-5.10	108.15	110.70
26	BB	928	A	C4'-C3'-C2'	-5.10	97.50	102.60
26	BB	1019	U	P-O3'-C3'	5.10	125.82	119.70
26	BB	1040	A	N1-C2-N3	-5.10	126.75	129.30
26	BB	1257	C	N3-C4-C5	-5.10	119.86	121.90
26	BB	1437	C	C4-C5-C6	-5.10	114.85	117.40
26	BB	1523	U	C5-C4-O4	-5.10	122.84	125.90
26	BB	1954	G	O3'-P-O5'	-5.10	94.31	104.00
26	BB	1974	C	N1-C2-N3	-5.10	115.63	119.20
26	BB	2475	C	N3-C4-N4	5.10	121.57	118.00
26	BB	2667	C	N1-C2-O2	-5.10	115.84	118.90
1	AA	496	A	N9-C1'-C2'	5.10	120.62	114.00
1	AA	918	A	C6-C5-N7	5.10	135.87	132.30
1	AA	1035	A	N9-C4-C5	5.10	107.84	105.80
26	BB	916	G	N3-C4-N9	5.10	129.06	126.00
1	AA	79	G	C4-N9-C1'	-5.09	119.88	126.50
1	AA	293	G	O4'-C1'-N9	5.09	112.28	108.20
1	AA	369	G	C4-C5-C6	5.09	121.86	118.80
1	AA	596	A	C5'-C4'-O4'	5.09	115.21	109.10
1	AA	907	A	OP2-P-O3'	5.09	116.41	105.20
1	AA	1167	A	N1-C2-N3	-5.09	126.75	129.30
23	AW	28	ARG	NE-CZ-NH1	5.09	122.85	120.30
25	BA	34	A	C4-C5-N7	-5.09	108.15	110.70
25	BA	87	U	N1-C1'-C2'	5.09	120.62	114.00
26	BB	185	G	C5'-C4'-O4'	5.09	115.21	109.10
26	BB	295	G	N3-C4-C5	-5.09	126.05	128.60
26	BB	583	G	C4-C5-C6	5.09	121.86	118.80
26	BB	709	U	N3-C2-O2	-5.09	118.63	122.20
26	BB	953	G	C5-N7-C8	-5.09	101.75	104.30
26	BB	1050	A	C4'-C3'-C2'	-5.09	97.50	102.60
26	BB	1071	G	P-O3'-C3'	5.09	125.81	119.70
26	BB	1227	G	N3-C4-C5	-5.09	126.05	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1367	A	O4'-C1'-C2'	-5.09	100.70	105.80
26	BB	1369	G	C5-C6-O6	5.09	131.66	128.60
26	BB	2035	G	C6-C5-N7	5.09	133.46	130.40
26	BB	2081	U	N3-C2-O2	-5.09	118.63	122.20
26	BB	2824	C	C2-N1-C1'	-5.09	113.20	118.80
38	BN	58	TYR	CG-CD1-CE1	5.09	125.38	121.30
48	BX	66	ASP	CB-CG-OD1	-5.09	113.71	118.30
51	B0	56	LEU	C-N-CA	5.09	134.44	121.70
1	AA	1426	G	C2-N3-C4	5.09	114.45	111.90
26	BB	710	U	C2-N3-C4	-5.09	123.94	127.00
26	BB	789	A	C2-N3-C4	-5.09	108.05	110.60
26	BB	875	G	O5'-P-OP2	-5.09	101.12	105.70
26	BB	883	G	N1-C6-O6	-5.09	116.84	119.90
26	BB	964	C	C6-N1-C1'	5.09	126.91	120.80
26	BB	1063	G	P-O5'-C5'	5.09	129.05	120.90
26	BB	1348	C	P-O3'-C3'	5.09	125.81	119.70
26	BB	2337	G	N1-C2-N2	-5.09	111.62	116.20
26	BB	2403	C	C4'-C3'-C2'	-5.09	97.51	102.60
26	BB	2597	G	C2-N3-C4	5.09	114.45	111.90
26	BB	2858	C	C5'-C4'-C3'	-5.09	107.85	116.00
34	BJ	59	LEU	CB-CA-C	5.09	119.88	110.20
51	B0	29	ARG	NE-CZ-NH2	5.09	122.85	120.30
1	AA	68	G	N1-C2-N2	5.09	120.78	116.20
1	AA	470	C	C5'-C4'-C3'	-5.09	107.85	116.00
1	AA	493	A	C4-C5-C6	5.09	119.55	117.00
1	AA	578	C	C3'-C2'-C1'	-5.09	97.43	101.50
1	AA	783	C	C2-N3-C4	5.09	122.44	119.90
1	AA	832	G	O4'-C1'-N9	5.09	112.27	108.20
1	AA	847	G	C4'-C3'-O3'	5.09	123.18	113.00
1	AA	1020	G	C3'-C2'-C1'	5.09	105.57	101.50
1	AA	1026	G	C6-C5-N7	-5.09	127.34	130.40
1	AA	1323	G	N9-C1'-C2'	-5.09	106.40	112.00
26	BB	74	A	N9-C4-C5	5.09	107.84	105.80
26	BB	285	G	C5'-C4'-O4'	5.09	115.21	109.10
26	BB	1305	C	O4'-C1'-C2'	5.09	112.18	107.60
26	BB	1398	C	C4'-C3'-O3'	5.09	123.18	113.00
26	BB	1472	C	C3'-C2'-C1'	5.09	105.57	101.50
26	BB	1496	A	N9-C4-C5	-5.09	103.76	105.80
26	BB	1548	A	C5-C6-N1	5.09	120.25	117.70
26	BB	1579	A	N1-C2-N3	5.09	131.84	129.30
26	BB	1702	G	C5'-C4'-C3'	-5.09	107.85	116.00
26	BB	1749	A	C4-C5-N7	-5.09	108.15	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1989	G	N3-C4-N9	5.09	129.06	126.00
26	BB	2279	G	N9-C4-C5	5.09	107.44	105.40
26	BB	2515	C	C5'-C4'-O4'	5.09	115.21	109.10
31	BG	30	VAL	CA-CB-CG2	5.09	118.54	110.90
38	BN	74	THR	CA-CB-CG2	5.09	119.53	112.40
1	AA	131	A	N3-C4-N9	-5.09	123.33	127.40
1	AA	178	C	N3-C2-O2	-5.09	118.34	121.90
13	AM	57	VAL	O-C-N	5.09	130.84	122.70
25	BA	17	C	C5-C6-N1	5.09	123.55	121.00
26	BB	73	A	C4'-C3'-C2'	-5.09	97.51	102.60
26	BB	122	G	C5'-C4'-O4'	5.09	115.21	109.10
26	BB	134	G	N7-C8-N9	5.09	115.64	113.10
26	BB	390	U	P-O5'-C5'	5.09	129.04	120.90
26	BB	440	C	O4'-C1'-N1	5.09	112.27	108.20
26	BB	442	G	C6-N1-C2	-5.09	122.05	125.10
26	BB	488	G	C6-C5-N7	-5.09	127.35	130.40
26	BB	1848	A	N3-C4-C5	-5.09	123.24	126.80
26	BB	2107	G	O4'-C1'-N9	5.09	112.27	108.20
26	BB	2223	G	N3-C2-N2	-5.09	116.34	119.90
26	BB	2227	A	O4'-C1'-C2'	5.09	112.18	107.60
26	BB	2604	U	C1'-O4'-C4'	-5.09	105.83	109.90
30	BF	7	ASP	C-N-CA	5.09	134.43	121.70
50	BZ	70	LEU	CB-CG-CD1	-5.09	102.35	111.00
1	AA	504	C	C1'-O4'-C4'	5.09	113.97	109.90
1	AA	1143	G	C1'-O4'-C4'	5.09	113.97	109.90
26	BB	89	A	C5-N7-C8	-5.09	101.36	103.90
26	BB	1183	U	C5'-C4'-O4'	5.09	115.21	109.10
26	BB	1214	A	C2-N3-C4	5.09	113.14	110.60
26	BB	1331	G	C5-C6-N1	5.09	114.04	111.50
26	BB	1434	A	C6-N1-C2	-5.09	115.55	118.60
26	BB	1564	C	P-O3'-C3'	5.09	125.81	119.70
26	BB	2528	U	C5-C4-O4	-5.09	122.85	125.90
27	BC	180	PHE	CB-CG-CD1	-5.09	117.24	120.80
1	AA	99	C	C5-C4-N4	-5.09	116.64	120.20
1	AA	412	A	C3'-C2'-C1'	-5.09	97.43	101.50
1	AA	457	G	N1-C6-O6	-5.09	116.85	119.90
1	AA	775	G	C6-N1-C2	-5.09	122.05	125.10
1	AA	847	G	C8-N9-C1'	5.09	133.61	127.00
1	AA	938	A	C6-N1-C2	-5.09	115.55	118.60
1	AA	1031	C	O4'-C1'-N1	5.09	112.27	108.20
1	AA	1224	U	N3-C4-C5	-5.09	111.55	114.60
1	AA	1261	A	C3'-C2'-C1'	5.09	105.57	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1326	U	C5-C6-N1	-5.09	120.16	122.70
4	AD	43	G	C4'-C3'-O3'	5.09	123.17	113.00
25	BA	78	A	O5'-P-OP1	5.09	116.80	110.70
26	BB	114	U	N3-C4-O4	5.09	122.96	119.40
26	BB	482	A	C2-N3-C4	5.09	113.14	110.60
26	BB	640	C	N1-C2-N3	-5.09	115.64	119.20
26	BB	949	G	C6-N1-C2	-5.09	122.05	125.10
26	BB	1177	G	C3'-C2'-C1'	5.09	105.57	101.50
26	BB	1328	A	C4'-C3'-C2'	-5.09	97.51	102.60
26	BB	1338	G	C5-C6-O6	5.09	131.65	128.60
26	BB	1904	G	N1-C6-O6	-5.09	116.85	119.90
26	BB	2211	A	OP1-P-OP2	5.09	127.23	119.60
26	BB	2217	G	C4-C5-C6	5.09	121.85	118.80
26	BB	2288	A	C5-N7-C8	5.09	106.44	103.90
26	BB	2309	A	C5'-C4'-C3'	-5.09	107.86	116.00
26	BB	2390	U	N3-C4-C5	-5.09	111.55	114.60
26	BB	2639	A	N1-C6-N6	-5.09	115.55	118.60
26	BB	2765	A	N3-C4-C5	-5.09	123.24	126.80
26	BB	2876	G	C5-N7-C8	5.09	106.84	104.30
46	BV	41	ALA	CA-C-N	-5.09	106.01	117.20
1	AA	137	U	C5-C4-O4	-5.08	122.85	125.90
1	AA	739	C	C4'-C3'-C2'	-5.08	97.52	102.60
1	AA	1035	A	C6-N1-C2	5.08	121.65	118.60
26	BB	180	G	C4'-C3'-C2'	5.08	107.69	102.60
26	BB	1347	A	O4'-C1'-N9	5.08	112.27	108.20
26	BB	2649	C	N3-C2-O2	-5.08	118.34	121.90
26	BB	2821	A	C3'-C2'-C1'	-5.08	97.43	101.50
28	BD	120	ASP	CB-CG-OD2	5.08	122.88	118.30
43	BS	100	PHE	CB-CG-CD1	5.08	124.36	120.80
1	AA	114	U	C2-N3-C4	5.08	130.05	127.00
1	AA	777	A	C5'-C4'-C3'	-5.08	107.87	116.00
1	AA	1026	G	C1'-O4'-C4'	-5.08	105.83	109.90
1	AA	1215	G	C5-C6-N1	-5.08	108.96	111.50
1	AA	1321	U	N1-C1'-C2'	5.08	120.61	114.00
1	AA	1362	A	C5-C6-N1	-5.08	115.16	117.70
1	AA	1458	G	C4'-C3'-C2'	-5.08	97.52	102.60
26	BB	311	A	C5'-C4'-O4'	5.08	115.20	109.10
26	BB	479	A	C5-C6-N1	-5.08	115.16	117.70
26	BB	885	C	C6-N1-C2	5.08	122.33	120.30
26	BB	1146	C	C5'-C4'-O4'	5.08	115.20	109.10
26	BB	1238	G	N3-C4-N9	5.08	129.05	126.00
26	BB	1413	A	C5'-C4'-C3'	5.08	124.13	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2399	G	C8-N9-C4	-5.08	104.37	106.40
26	BB	2473	U	C4-C5-C6	5.08	122.75	119.70
26	BB	2553	G	C5'-C4'-O4'	5.08	115.20	109.10
26	BB	2722	G	P-O5'-C5'	5.08	129.03	120.90
40	BP	95	THR	O-C-N	5.08	130.83	122.70
1	AA	28	A	N1-C2-N3	5.08	131.84	129.30
1	AA	166	U	C4-C5-C6	-5.08	116.65	119.70
1	AA	251	G	N9-C1'-C2'	5.08	120.61	114.00
1	AA	929	G	C3'-C2'-C1'	5.08	105.57	101.50
1	AA	1021	A	C5'-C4'-O4'	5.08	115.20	109.10
1	AA	1047	G	C8-N9-C4	-5.08	104.37	106.40
1	AA	1072	G	C5'-C4'-O4'	5.08	115.20	109.10
1	AA	1101	A	C4-C5-N7	-5.08	108.16	110.70
1	AA	1156	G	C6-N1-C2	-5.08	122.05	125.10
1	AA	1186	G	C4-N9-C1'	-5.08	119.89	126.50
1	AA	1204	A	C5-N7-C8	-5.08	101.36	103.90
1	AA	1222	G	C4'-C3'-C2'	5.08	107.68	102.60
1	AA	1261	A	C1'-O4'-C4'	5.08	113.97	109.90
1	AA	1332	A	N9-C4-C5	5.08	107.83	105.80
1	AA	1499	A	N7-C8-N9	5.08	116.34	113.80
2	AB	22	G	N3-C2-N2	-5.08	116.34	119.90
26	BB	806	C	N1-C2-O2	5.08	121.95	118.90
26	BB	809	G	P-O5'-C5'	5.08	129.03	120.90
26	BB	1126	A	C6-C5-N7	5.08	135.86	132.30
26	BB	1380	G	N7-C8-N9	5.08	115.64	113.10
26	BB	1432	G	C1'-O4'-C4'	-5.08	105.83	109.90
26	BB	1838	C	C4'-C3'-O3'	-5.08	98.73	109.40
26	BB	2027	G	N1-C2-N3	-5.08	120.85	123.90
26	BB	2144	G	C6-C5-N7	5.08	133.45	130.40
26	BB	2751	G	C6-C5-N7	-5.08	127.35	130.40
26	BB	2805	C	N1-C2-O2	5.08	121.95	118.90
57	B6	1	PRO	CA-N-CD	-5.08	104.39	111.50
1	AA	26	A	C5-C6-N1	5.08	120.24	117.70
1	AA	121	U	O4'-C1'-C2'	-5.08	100.72	105.80
1	AA	357	G	N3-C4-N9	5.08	129.05	126.00
1	AA	691	G	C6-N1-C2	-5.08	122.05	125.10
1	AA	1467	C	C2-N1-C1'	-5.08	113.21	118.80
5	AE	94	ARG	CD-NE-CZ	5.08	130.71	123.60
25	BA	44	G	C4'-C3'-C2'	5.08	107.68	102.60
26	BB	99	U	C4'-C3'-C2'	-5.08	97.52	102.60
26	BB	1265	A	O5'-C5'-C4'	-5.08	102.05	111.70
26	BB	1451	C	O4'-C1'-N1	5.08	112.26	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2746	U	P-O3'-C3'	5.08	125.80	119.70
28	BD	216	ARG	NE-CZ-NH2	-5.08	117.76	120.30
53	B2	49	ARG	NH1-CZ-NH2	5.08	124.99	119.40
1	AA	81	A	N7-C8-N9	5.08	116.34	113.80
1	AA	523	A	C8-N9-C4	-5.08	103.77	105.80
1	AA	753	A	N9-C4-C5	5.08	107.83	105.80
1	AA	1121	U	P-O3'-C3'	5.08	125.80	119.70
10	AJ	101	ARG	NE-CZ-NH2	-5.08	117.76	120.30
25	BA	30	C	C4'-C3'-C2'	-5.08	97.52	102.60
26	BB	13	A	N3-C4-N9	5.08	131.46	127.40
26	BB	294	A	P-O3'-C3'	5.08	125.80	119.70
26	BB	721	A	N3-C4-N9	5.08	131.46	127.40
26	BB	735	A	C6-N1-C2	-5.08	115.55	118.60
26	BB	1268	A	O5'-P-OP2	-5.08	101.13	105.70
26	BB	1287	A	N1-C2-N3	-5.08	126.76	129.30
26	BB	1632	A	C5-N7-C8	5.08	106.44	103.90
26	BB	1794	A	C6-N1-C2	-5.08	115.55	118.60
26	BB	1913	A	N9-C4-C5	5.08	107.83	105.80
26	BB	2340	A	C8-N9-C4	-5.08	103.77	105.80
26	BB	2399	G	C5-C6-N1	5.08	114.04	111.50
26	BB	2519	U	O4'-C4'-C3'	5.08	110.16	106.10
26	BB	2549	G	C5-N7-C8	5.08	106.84	104.30
26	BB	2794	C	N1-C2-O2	5.08	121.95	118.90
4	AD	53	G	C4'-C3'-C2'	-5.08	97.52	102.60
26	BB	159	G	N9-C4-C5	5.08	107.43	105.40
26	BB	346	A	N1-C2-N3	5.08	131.84	129.30
26	BB	681	G	C3'-C2'-C1'	5.08	105.56	101.50
26	BB	1029	A	O4'-C1'-N9	5.08	112.26	108.20
26	BB	1907	G	N1-C6-O6	-5.08	116.85	119.90
26	BB	2231	U	C1'-O4'-C4'	-5.08	105.84	109.90
26	BB	2240	U	C5-C4-O4	5.08	128.95	125.90
26	BB	2788	C	O3'-P-O5'	5.08	113.65	104.00
1	AA	196	A	C5-N7-C8	-5.08	101.36	103.90
1	AA	408	A	C5-C6-N1	5.08	120.24	117.70
1	AA	556	C	O4'-C4'-C3'	5.08	110.16	106.10
1	AA	646	G	C8-N9-C1'	5.08	133.60	127.00
1	AA	733	G	C2-N3-C4	5.08	114.44	111.90
1	AA	1360	A	N1-C6-N6	-5.08	115.55	118.60
25	BA	9	G	C2-N3-C4	-5.08	109.36	111.90
26	BB	11	C	C5-C4-N4	-5.08	116.65	120.20
26	BB	270	A	C4-C5-C6	-5.08	114.46	117.00
26	BB	405	U	C5-C4-O4	5.08	128.94	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	422	A	C2-N3-C4	5.08	113.14	110.60
26	BB	466	A	C5-C6-N1	5.08	120.24	117.70
26	BB	561	G	C8-N9-C4	5.08	108.43	106.40
26	BB	834	G	C2-N3-C4	5.08	114.44	111.90
26	BB	879	G	C2-N3-C4	5.08	114.44	111.90
26	BB	883	G	C4'-C3'-C2'	-5.08	97.53	102.60
26	BB	976	G	C5'-C4'-O4'	5.08	115.19	109.10
26	BB	2027	G	C4-C5-N7	-5.08	108.77	110.80
26	BB	2164	C	N1-C1'-C2'	-5.08	106.42	112.00
26	BB	2464	G	C6-C5-N7	5.08	133.45	130.40
26	BB	2743	U	C4'-C3'-C2'	-5.08	97.52	102.60
26	BB	2844	G	C5-N7-C8	-5.08	101.76	104.30
52	B1	54	VAL	CB-CA-C	-5.08	101.75	111.40
53	B2	56	ARG	CG-CD-NE	-5.08	101.14	111.80
1	AA	17	U	C5'-C4'-O4'	5.07	115.19	109.10
1	AA	57	G	O4'-C1'-N9	-5.07	104.14	108.20
1	AA	491	G	C4'-C3'-C2'	-5.07	97.53	102.60
1	AA	745	G	O3'-P-O5'	-5.07	94.36	104.00
1	AA	939	G	O4'-C1'-N9	5.07	112.26	108.20
1	AA	1413	A	O4'-C1'-N9	5.07	112.26	108.20
26	BB	350	G	C4-N9-C1'	5.07	133.09	126.50
26	BB	830	G	N1-C6-O6	5.07	122.94	119.90
26	BB	1223	G	N3-C4-N9	5.07	129.04	126.00
26	BB	1580	A	C1'-O4'-C4'	-5.07	105.84	109.90
26	BB	1585	C	P-O3'-C3'	5.07	125.79	119.70
26	BB	1626	A	C5-C6-N6	-5.07	119.64	123.70
26	BB	2211	A	C2-N3-C4	5.07	113.14	110.60
26	BB	2239	G	N3-C4-C5	-5.07	126.06	128.60
26	BB	2307	G	N7-C8-N9	-5.07	110.56	113.10
26	BB	2496	C	N1-C2-N3	-5.07	115.65	119.20
26	BB	2773	C	N3-C2-O2	-5.07	118.35	121.90
26	BB	2777	G	OP2-P-O3'	5.07	116.36	105.20
41	BQ	117	PHE	CB-CG-CD2	-5.07	117.25	120.80
1	AA	187	G	N1-C6-O6	-5.07	116.86	119.90
1	AA	255	G	N9-C1'-C2'	-5.07	106.42	112.00
1	AA	693	G	C1'-O4'-C4'	-5.07	105.84	109.90
25	BA	9	G	C5-C6-O6	-5.07	125.56	128.60
26	BB	446	G	N3-C4-C5	-5.07	126.06	128.60
26	BB	721	A	N3-C4-C5	-5.07	123.25	126.80
26	BB	1853	A	C4-C5-C6	5.07	119.54	117.00
26	BB	2692	G	C2-N3-C4	-5.07	109.36	111.90
26	BB	2700	A	N1-C2-N3	-5.07	126.76	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	48	C	C6-N1-C1'	5.07	126.89	120.80
1	AA	253	A	C5'-C4'-O4'	5.07	115.19	109.10
1	AA	593	U	C3'-C2'-C1'	5.07	105.56	101.50
1	AA	829	G	N3-C4-N9	5.07	129.04	126.00
1	AA	1143	G	N3-C2-N2	5.07	123.45	119.90
1	AA	1173	U	C5-C4-O4	-5.07	122.86	125.90
1	AA	1265	C	C4'-C3'-C2'	-5.07	97.53	102.60
1	AA	1391	U	C4'-C3'-C2'	-5.07	97.53	102.60
2	AB	19	G	N9-C4-C5	5.07	107.43	105.40
26	BB	918	A	N1-C2-N3	-5.07	126.76	129.30
26	BB	1285	A	O5'-P-OP1	-5.07	101.14	105.70
26	BB	1413	A	C2-N3-C4	-5.07	108.06	110.60
26	BB	1423	G	N3-C4-C5	-5.07	126.06	128.60
26	BB	1631	G	N1-C2-N2	-5.07	111.64	116.20
26	BB	2104	C	C4'-C3'-C2'	-5.07	97.53	102.60
26	BB	2312	U	C4'-C3'-C2'	-5.07	97.53	102.60
26	BB	2407	A	N7-C8-N9	5.07	116.33	113.80
26	BB	2772	C	N3-C4-C5	5.07	123.93	121.90
26	BB	2828	G	P-O3'-C3'	5.07	125.78	119.70
1	AA	1331	G	C5-C6-O6	5.07	131.64	128.60
26	BB	1026	G	C5-C6-O6	-5.07	125.56	128.60
26	BB	1264	A	N3-C4-C5	-5.07	123.25	126.80
26	BB	1288	G	N9-C4-C5	-5.07	103.37	105.40
26	BB	1954	G	O4'-C1'-C2'	5.07	112.16	107.60
26	BB	2693	G	C4-C5-N7	5.07	112.83	110.80
33	BI	21	VAL	CA-CB-CG1	5.07	118.50	110.90
1	AA	116	A	C6-C5-N7	5.07	135.85	132.30
1	AA	319	G	C8-N9-C1'	5.07	133.59	127.00
1	AA	533	A	O4'-C1'-C2'	-5.07	100.73	105.80
1	AA	1047	G	C2'-C3'-O3'	5.07	121.81	113.70
1	AA	1081	A	C8-N9-C4	-5.07	103.77	105.80
1	AA	1357	A	C5-C6-N6	5.07	127.75	123.70
2	AB	28	C	O5'-P-OP1	-5.07	101.14	105.70
3	AC	55	A	C1'-O4'-C4'	-5.07	105.85	109.90
26	BB	786	C	C5-C4-N4	-5.07	116.65	120.20
26	BB	972	A	C5-C6-N6	-5.07	119.65	123.70
26	BB	1338	G	C6-N1-C2	-5.07	122.06	125.10
26	BB	1459	G	C5-N7-C8	-5.07	101.77	104.30
26	BB	1666	G	N9-C4-C5	-5.07	103.37	105.40
26	BB	2250	G	C8-N9-C1'	5.07	133.59	127.00
26	BB	2358	A	C4-C5-N7	-5.07	108.17	110.70
26	BB	2438	U	P-O3'-C3'	5.07	125.78	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	BG	169	LEU	CB-CA-C	5.07	119.83	110.20
34	BJ	99	ALA	N-CA-CB	-5.07	103.01	110.10
1	AA	18	C	C5-C4-N4	5.07	123.75	120.20
1	AA	35	G	O3'-P-O5'	-5.07	94.38	104.00
1	AA	71	A	O5'-C5'-C4'	-5.07	102.08	111.70
1	AA	257	G	C4'-C3'-C2'	-5.07	97.53	102.60
1	AA	517	G	C4'-C3'-C2'	-5.07	97.53	102.60
1	AA	807	A	N1-C2-N3	-5.07	126.77	129.30
1	AA	993	G	P-O3'-C3'	5.07	125.78	119.70
1	AA	1095	U	O4'-C4'-C3'	5.07	110.15	106.10
1	AA	1386	G	N7-C8-N9	-5.07	110.57	113.10
4	AD	41	C	C6-N1-C2	5.07	122.33	120.30
10	AJ	67	ASN	N-CA-CB	-5.07	101.48	110.60
25	BA	91	C	N3-C2-O2	-5.07	118.36	121.90
26	BB	66	C	C4'-C3'-C2'	-5.07	97.53	102.60
26	BB	369	U	O4'-C4'-C3'	5.07	110.15	106.10
26	BB	511	U	C4'-C3'-C2'	-5.07	97.53	102.60
26	BB	615	U	C3'-C2'-C1'	5.07	105.55	101.50
26	BB	617	G	C2-N3-C4	5.07	114.43	111.90
26	BB	621	A	C5-N7-C8	-5.07	101.37	103.90
26	BB	992	C	C6-N1-C2	-5.07	118.27	120.30
26	BB	1252	G	C4-C5-C6	5.07	121.84	118.80
26	BB	1515	A	C4-C5-N7	5.07	113.23	110.70
26	BB	1785	A	C5'-C4'-O4'	5.07	115.18	109.10
26	BB	2034	U	O4'-C1'-C2'	5.07	112.16	107.60
26	BB	2067	G	N9-C1'-C2'	-5.07	106.43	112.00
26	BB	2148	G	P-O3'-C3'	5.07	125.78	119.70
26	BB	2356	U	C5-C4-O4	-5.07	122.86	125.90
26	BB	2372	U	N3-C2-O2	-5.07	118.65	122.20
26	BB	2899	A	C6-C5-N7	-5.07	128.75	132.30
30	BF	154	ASP	CB-CG-OD2	-5.07	113.74	118.30
1	AA	237	G	N1-C2-N2	5.06	120.76	116.20
1	AA	295	C	C1'-O4'-C4'	5.06	113.95	109.90
1	AA	932	C	C5-C6-N1	-5.06	118.47	121.00
1	AA	1074	G	O4'-C1'-N9	5.06	112.25	108.20
1	AA	1222	G	N7-C8-N9	5.06	115.63	113.10
25	BA	113	C	C4-C5-C6	5.06	119.93	117.40
26	BB	215	G	P-O3'-C3'	5.06	125.78	119.70
26	BB	1194	A	OP1-P-OP2	-5.06	112.00	119.60
26	BB	1815	A	C1'-O4'-C4'	5.06	113.95	109.90
26	BB	1957	C	C5'-C4'-C3'	-5.06	107.90	116.00
26	BB	2020	A	C8-N9-C4	-5.06	103.77	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2660	A	C3'-C2'-C1'	5.06	105.55	101.50
26	BB	2784	U	C5'-C4'-O4'	5.06	115.18	109.10
43	BS	101	ASP	OD1-CG-OD2	5.06	132.92	123.30
1	AA	234	C	C3'-C2'-C1'	-5.06	97.45	101.50
1	AA	376	G	N3-C4-C5	-5.06	126.07	128.60
1	AA	399	G	C5'-C4'-O4'	5.06	115.17	109.10
1	AA	447	G	N3-C4-C5	-5.06	126.07	128.60
1	AA	482	A	C5-C6-N6	-5.06	119.65	123.70
1	AA	672	U	N3-C4-C5	-5.06	111.56	114.60
1	AA	790	A	C5-N7-C8	5.06	106.43	103.90
1	AA	849	G	N3-C4-N9	5.06	129.04	126.00
1	AA	1122	U	C3'-C2'-C1'	-5.06	97.45	101.50
2	AB	76	A	C8-N9-C4	-5.06	103.78	105.80
3	AC	51	C	C2-N1-C1'	5.06	124.37	118.80
25	BA	66	A	C4'-C3'-O3'	5.06	123.12	113.00
26	BB	230	G	N1-C2-N2	5.06	120.76	116.20
26	BB	324	A	N1-C6-N6	5.06	121.64	118.60
26	BB	343	C	N1-C2-O2	5.06	121.94	118.90
26	BB	837	C	N1-C2-N3	5.06	122.74	119.20
26	BB	971	G	C8-N9-C1'	5.06	133.58	127.00
26	BB	1038	G	C5-N7-C8	-5.06	101.77	104.30
26	BB	1434	A	N9-C1'-C2'	-5.06	106.43	112.00
26	BB	1757	A	N7-C8-N9	5.06	116.33	113.80
26	BB	1775	U	C5-C4-O4	5.06	128.94	125.90
26	BB	1899	A	N3-C4-N9	-5.06	123.35	127.40
26	BB	1907	G	C4-C5-C6	5.06	121.84	118.80
26	BB	2262	U	N1-C2-N3	5.06	117.94	114.90
26	BB	2689	U	C5-C4-O4	-5.06	122.86	125.90
33	BI	108	VAL	CB-CA-C	5.06	121.02	111.40
38	BN	105	ILE	O-C-N	5.06	130.80	122.70
1	AA	924	C	C2-N1-C1'	-5.06	113.23	118.80
1	AA	1260	G	C5'-C4'-O4'	5.06	115.17	109.10
26	BB	89	A	C6-N1-C2	-5.06	115.56	118.60
26	BB	720	U	N1-C1'-C2'	-5.06	106.43	112.00
26	BB	1359	A	C6-N1-C2	-5.06	115.56	118.60
26	BB	1456	G	C6-N1-C2	-5.06	122.06	125.10
26	BB	2127	G	C5'-C4'-O4'	5.06	115.17	109.10
26	BB	2622	U	N1-C2-O2	-5.06	119.26	122.80
1	AA	187	G	C4-C5-C6	-5.06	115.76	118.80
1	AA	197	A	C5'-C4'-O4'	5.06	115.17	109.10
1	AA	206	C	C6-N1-C2	-5.06	118.28	120.30
1	AA	673	A	N9-C4-C5	5.06	107.82	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	956	U	O4'-C4'-C3'	5.06	110.15	106.10
1	AA	1011	C	C5-C6-N1	-5.06	118.47	121.00
1	AA	1164	G	C5-N7-C8	-5.06	101.77	104.30
1	AA	1194	U	C1'-O4'-C4'	5.06	113.95	109.90
1	AA	1333	A	C3'-C2'-C1'	-5.06	97.45	101.50
1	AA	1405	G	C8-N9-C4	-5.06	104.38	106.40
1	AA	1522	U	C5-C4-O4	5.06	128.94	125.90
26	BB	79	C	C5-C4-N4	-5.06	116.66	120.20
26	BB	257	C	C1'-O4'-C4'	5.06	113.95	109.90
26	BB	332	A	C1'-O4'-C4'	5.06	113.95	109.90
26	BB	388	G	N1-C6-O6	5.06	122.94	119.90
26	BB	410	G	C5'-C4'-C3'	5.06	124.10	116.00
26	BB	532	A	C5-C6-N6	5.06	127.75	123.70
26	BB	622	G	C8-N9-C4	-5.06	104.38	106.40
26	BB	700	G	C8-N9-C4	-5.06	104.38	106.40
26	BB	843	G	N9-C4-C5	5.06	107.42	105.40
26	BB	970	U	C5-C6-N1	-5.06	120.17	122.70
26	BB	1459	G	N7-C8-N9	5.06	115.63	113.10
26	BB	1615	C	O4'-C1'-C2'	-5.06	100.74	105.80
26	BB	1680	U	N3-C4-O4	5.06	122.94	119.40
26	BB	1933	G	C5-N7-C8	5.06	106.83	104.30
26	BB	2145	C	O4'-C1'-N1	5.06	112.25	108.20
26	BB	2376	A	C6-C5-N7	-5.06	128.76	132.30
26	BB	2560	A	OP2-P-O3'	5.06	116.33	105.20
28	BD	101	ARG	NE-CZ-NH1	5.06	122.83	120.30
30	BF	119	ILE	CA-CB-CG2	5.06	121.02	110.90
1	AA	172	A	C5-N7-C8	5.06	106.43	103.90
1	AA	432	A	O5'-C5'-C4'	5.06	121.31	111.70
1	AA	665	A	N1-C2-N3	-5.06	126.77	129.30
1	AA	884	U	C6-N1-C2	-5.06	117.97	121.00
1	AA	1072	G	O4'-C1'-N9	5.06	112.25	108.20
1	AA	1269	A	C6-C5-N7	5.06	135.84	132.30
26	BB	6	A	N9-C4-C5	-5.06	103.78	105.80
26	BB	105	C	C5-C6-N1	5.06	123.53	121.00
26	BB	150	U	C2-N3-C4	-5.06	123.97	127.00
26	BB	245	G	O4'-C1'-N9	5.06	112.25	108.20
26	BB	386	G	C4-N9-C1'	-5.06	119.92	126.50
26	BB	546	U	C3'-C2'-C1'	5.06	105.55	101.50
26	BB	693	A	C5-N7-C8	-5.06	101.37	103.90
26	BB	804	A	N7-C8-N9	5.06	116.33	113.80
26	BB	815	C	C4-C5-C6	5.06	119.93	117.40
26	BB	999	U	C4'-C3'-C2'	-5.06	97.54	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1243	C	C6-N1-C2	5.06	122.32	120.30
26	BB	1354	A	N1-C6-N6	5.06	121.64	118.60
26	BB	1726	C	O4'-C1'-N1	5.06	112.25	108.20
26	BB	1763	G	C2'-C3'-O3'	5.06	121.79	113.70
26	BB	1767	G	O4'-C1'-N9	5.06	112.25	108.20
26	BB	2077	A	N9-C1'-C2'	-5.06	106.44	112.00
26	BB	2155	U	C2-N3-C4	-5.06	123.97	127.00
26	BB	2385	C	N3-C4-N4	5.06	121.54	118.00
26	BB	2473	U	N3-C4-O4	5.06	122.94	119.40
26	BB	2733	A	C4-C5-N7	-5.06	108.17	110.70
26	BB	2841	C	O5'-C5'-C4'	-5.06	102.09	111.70
33	BI	3	VAL	CA-CB-CG2	5.06	118.48	110.90
34	BJ	54	VAL	CG1-CB-CG2	-5.06	102.81	110.90
47	BW	99	SER	CB-CA-C	5.06	119.71	110.10
54	B3	9	ARG	NE-CZ-NH1	-5.06	117.77	120.30
1	AA	570	G	C4-C5-C6	5.06	121.83	118.80
1	AA	1247	U	C5'-C4'-O4'	5.06	115.17	109.10
3	AC	45	G	C5-C6-O6	5.06	131.63	128.60
26	BB	486	C	N3-C4-C5	5.06	123.92	121.90
26	BB	1817	G	C8-N9-C1'	5.06	133.57	127.00
1	AA	38	G	N1-C2-N3	5.05	126.93	123.90
1	AA	146	G	C4'-C3'-C2'	-5.05	97.55	102.60
1	AA	181	A	N9-C4-C5	5.05	107.82	105.80
1	AA	939	G	P-O3'-C3'	5.05	125.77	119.70
1	AA	970	C	C5-C4-N4	-5.05	116.66	120.20
1	AA	1472	U	C6-N1-C2	-5.05	117.97	121.00
2	AB	9	A	C4'-C3'-O3'	5.05	123.11	113.00
25	BA	107	G	N7-C8-N9	5.05	115.63	113.10
26	BB	203	A	N9-C4-C5	5.05	107.82	105.80
26	BB	387	U	C2-N3-C4	-5.05	123.97	127.00
26	BB	551	G	C5-C6-N1	5.05	114.03	111.50
26	BB	895	U	C3'-C2'-C1'	5.05	105.54	101.50
26	BB	1173	U	O4'-C1'-N1	5.05	112.24	108.20
26	BB	1528	A	C8-N9-C1'	-5.05	118.60	127.70
26	BB	1764	C	P-O3'-C3'	5.05	125.77	119.70
26	BB	1784	A	C5-C6-N1	5.05	120.23	117.70
26	BB	1906	G	C5-C6-O6	-5.05	125.57	128.60
26	BB	2054	A	C5'-C4'-O4'	5.05	115.17	109.10
26	BB	2128	G	C6-C5-N7	-5.05	127.37	130.40
26	BB	2235	G	N1-C6-O6	-5.05	116.87	119.90
26	BB	2326	C	C5-C4-N4	-5.05	116.66	120.20
26	BB	2382	G	O5'-P-OP1	5.05	116.77	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2459	A	O4'-C1'-N9	5.05	112.24	108.20
26	BB	2467	C	O5'-P-OP2	-5.05	101.15	105.70
26	BB	2522	U	N1-C2-O2	-5.05	119.26	122.80
26	BB	2649	C	OP2-P-O3'	5.05	116.32	105.20
36	BL	113	PRO	N-CD-CG	5.05	110.78	103.20
1	AA	1401	G	C4-N9-C1'	5.05	133.07	126.50
26	BB	652	U	N3-C2-O2	-5.05	118.66	122.20
26	BB	705	A	C8-N9-C4	-5.05	103.78	105.80
26	BB	716	A	C4-C5-N7	-5.05	108.17	110.70
26	BB	1070	A	C4-C5-N7	-5.05	108.17	110.70
26	BB	1728	C	C6-N1-C2	5.05	122.32	120.30
26	BB	2194	U	N3-C4-O4	-5.05	115.86	119.40
26	BB	2408	U	C4-C5-C6	5.05	122.73	119.70
26	BB	2892	G	C8-N9-C1'	5.05	133.57	127.00
1	AA	239	U	O4'-C4'-C3'	5.05	110.14	106.10
1	AA	325	A	N9-C1'-C2'	-5.05	106.44	112.00
1	AA	351	G	N1-C6-O6	-5.05	116.87	119.90
1	AA	444	G	N3-C4-C5	5.05	131.13	128.60
1	AA	691	G	O5'-C5'-C4'	-5.05	102.10	111.70
1	AA	1040	U	C2-N3-C4	-5.05	123.97	127.00
1	AA	1064	G	O4'-C1'-N9	5.05	112.24	108.20
1	AA	1166	G	N7-C8-N9	5.05	115.63	113.10
1	AA	1416	G	O5'-C5'-C4'	5.05	121.30	111.70
2	AB	45	U	C2-N3-C4	-5.05	123.97	127.00
25	BA	23	G	C2-N3-C4	-5.05	109.37	111.90
25	BA	69	G	C5-C6-N1	5.05	114.03	111.50
26	BB	163	C	C6-N1-C2	-5.05	118.28	120.30
26	BB	325	G	C3'-C2'-C1'	-5.05	97.46	101.50
26	BB	553	G	N3-C2-N2	-5.05	116.36	119.90
26	BB	1301	A	C4-C5-C6	5.05	119.53	117.00
26	BB	1939	5MU	OP2-P-O3'	5.05	116.31	105.20
26	BB	1956	U	C4-C5-C6	5.05	122.73	119.70
26	BB	2025	C	O3'-P-O5'	5.05	113.60	104.00
26	BB	2702	G	N3-C4-N9	5.05	129.03	126.00
26	BB	2726	A	N9-C4-C5	5.05	107.82	105.80
1	AA	62	U	N1-C2-O2	-5.05	119.27	122.80
1	AA	179	A	N9-C4-C5	5.05	107.82	105.80
1	AA	419	C	C6-N1-C1'	5.05	126.86	120.80
1	AA	496	A	C5'-C4'-O4'	5.05	115.16	109.10
1	AA	922	G	C8-N9-C1'	5.05	133.56	127.00
1	AA	1117	A	C2-N3-C4	5.05	113.12	110.60
1	AA	1231	G	C4-C5-C6	5.05	121.83	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1460	C	N3-C4-C5	-5.05	119.88	121.90
4	AD	23	G	C8-N9-C1'	5.05	133.56	127.00
4	AD	36	A	C4'-C3'-C2'	5.05	107.65	102.60
26	BB	157	C	O5'-P-OP2	-5.05	101.16	105.70
26	BB	609	A	OP1-P-O3'	5.05	116.31	105.20
26	BB	660	C	O4'-C1'-N1	5.05	112.24	108.20
26	BB	1102	C	C6-N1-C1'	5.05	126.86	120.80
26	BB	1253	A	C5-C6-N1	5.05	120.22	117.70
26	BB	1325	U	N3-C2-O2	-5.05	118.67	122.20
26	BB	1381	G	C8-N9-C4	-5.05	104.38	106.40
26	BB	1408	G	C5-C6-O6	-5.05	125.57	128.60
26	BB	1613	G	N1-C2-N3	-5.05	120.87	123.90
26	BB	1632	A	C5-C6-N1	5.05	120.22	117.70
26	BB	1745	A	C4'-C3'-C2'	-5.05	97.55	102.60
26	BB	1778	U	C5'-C4'-C3'	-5.05	107.92	116.00
26	BB	1910	G	C3'-C2'-C1'	-5.05	97.46	101.50
26	BB	2596	U	N3-C2-O2	-5.05	118.67	122.20
1	AA	71	A	C5-C6-N6	5.05	127.74	123.70
1	AA	148	G	N1-C6-O6	5.05	122.93	119.90
1	AA	615	G	C6-N1-C2	-5.05	122.07	125.10
1	AA	711	G	C5'-C4'-C3'	-5.05	107.92	116.00
1	AA	1472	U	C4-C5-C6	5.05	122.73	119.70
25	BA	46	A	C2-N3-C4	-5.05	108.08	110.60
26	BB	841	G	C2-N3-C4	5.05	114.42	111.90
26	BB	917	A	C4-C5-C6	-5.05	114.48	117.00
26	BB	1063	G	N3-C2-N2	-5.05	116.37	119.90
26	BB	1125	G	C5-N7-C8	-5.05	101.78	104.30
26	BB	1491	G	C1'-O4'-C4'	5.05	113.94	109.90
26	BB	1734	G	N1-C2-N3	-5.05	120.87	123.90
26	BB	2886	A	N9-C1'-C2'	-5.05	106.45	112.00
1	AA	34	C	C3'-C2'-C1'	5.05	105.54	101.50
1	AA	303	A	C6-N1-C2	-5.05	115.57	118.60
1	AA	874	G	C2-N3-C4	5.05	114.42	111.90
1	AA	1389	C	N3-C4-N4	5.05	121.53	118.00
7	AG	14	GLU	OE1-CD-OE2	5.05	129.35	123.30
25	BA	116	G	N9-C4-C5	5.05	107.42	105.40
26	BB	48	G	C4-N9-C1'	-5.05	119.94	126.50
26	BB	55	G	O4'-C1'-N9	5.05	112.24	108.20
26	BB	346	A	O4'-C1'-N9	5.05	112.24	108.20
26	BB	453	A	C3'-C2'-C1'	-5.05	97.46	101.50
26	BB	544	C	C1'-O4'-C4'	-5.05	105.86	109.90
26	BB	716	A	O4'-C1'-C2'	-5.05	100.75	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1559	U	C5'-C4'-O4'	5.05	115.16	109.10
26	BB	1847	A	P-O3'-C3'	5.05	125.76	119.70
26	BB	1945	G	N3-C4-C5	-5.05	126.08	128.60
26	BB	2067	G	N1-C6-O6	-5.05	116.87	119.90
26	BB	2082	A	C5-C6-N6	-5.05	119.66	123.70
26	BB	2288	A	N3-C4-N9	-5.05	123.36	127.40
26	BB	2619	C	C5'-C4'-O4'	5.05	115.16	109.10
26	BB	2780	G	O4'-C1'-C2'	-5.05	100.75	105.80
43	BS	41	ALA	CB-CA-C	5.05	117.67	110.10
49	BY	10	ARG	NE-CZ-NH1	5.05	122.82	120.30
1	AA	98	A	N1-C2-N3	-5.04	126.78	129.30
1	AA	606	G	C4-C5-N7	-5.04	108.78	110.80
1	AA	1401	G	C3'-C2'-C1'	-5.04	97.46	101.50
26	BB	411	G	N1-C2-N3	-5.04	120.87	123.90
26	BB	973	A	C4-C5-C6	5.04	119.52	117.00
26	BB	977	G	C5-C6-N1	-5.04	108.98	111.50
26	BB	1633	G	C1'-O4'-C4'	5.04	113.94	109.90
26	BB	1672	A	N3-C4-C5	-5.04	123.27	126.80
26	BB	1817	G	C4-C5-C6	5.04	121.83	118.80
26	BB	2880	C	C2-N3-C4	5.04	122.42	119.90
1	AA	90	C	N1-C1'-C2'	-5.04	106.45	112.00
1	AA	198	G	N1-C2-N2	5.04	120.74	116.20
1	AA	304	U	C6-N1-C2	-5.04	117.97	121.00
1	AA	346	G	N9-C4-C5	-5.04	103.38	105.40
1	AA	438	U	N3-C4-O4	5.04	122.93	119.40
1	AA	548	G	C6-N1-C2	-5.04	122.07	125.10
1	AA	894	G	C5'-C4'-C3'	-5.04	107.93	116.00
1	AA	1049	U	C3'-C2'-C1'	-5.04	97.47	101.50
1	AA	1356	G	C5-N7-C8	-5.04	101.78	104.30
1	AA	1431	A	C5-C6-N6	-5.04	119.67	123.70
4	AD	42	C	N3-C4-C5	-5.04	119.88	121.90
26	BB	7	G	N7-C8-N9	5.04	115.62	113.10
26	BB	247	G	N1-C2-N2	-5.04	111.66	116.20
26	BB	748	G	C1'-O4'-C4'	-5.04	105.86	109.90
26	BB	826	U	N1-C2-O2	5.04	126.33	122.80
26	BB	933	A	N9-C4-C5	-5.04	103.78	105.80
26	BB	1149	G	C5-C6-O6	5.04	131.63	128.60
26	BB	1304	A	C5-C6-N1	5.04	120.22	117.70
26	BB	1451	C	C4-C5-C6	-5.04	114.88	117.40
26	BB	1675	C	C5'-C4'-C3'	-5.04	107.93	116.00
26	BB	1710	G	C5-C6-N1	-5.04	108.98	111.50
26	BB	1859	U	C5-C4-O4	-5.04	122.87	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2105	U	OP1-P-O3'	5.04	116.29	105.20
26	BB	2109	U	C3'-C2'-C1'	5.04	105.53	101.50
26	BB	2134	A	O4'-C4'-C3'	5.04	110.13	106.10
26	BB	2248	C	O4'-C1'-C2'	-5.04	100.76	105.80
26	BB	2314	A	C5-N7-C8	-5.04	101.38	103.90
26	BB	2437	G	N3-C2-N2	5.04	123.43	119.90
26	BB	2621	G	C4-C5-N7	-5.04	108.78	110.80
26	BB	2761	A	C6-C5-N7	-5.04	128.77	132.30
54	B3	52	LYS	CB-CA-C	5.04	120.49	110.40
1	AA	271	C	C3'-C2'-C1'	-5.04	97.47	101.50
1	AA	408	A	O4'-C1'-N9	5.04	112.23	108.20
1	AA	889	A	N7-C8-N9	-5.04	111.28	113.80
1	AA	941	G	C4'-C3'-C2'	-5.04	97.56	102.60
1	AA	1017	U	C4-C5-C6	-5.04	116.67	119.70
1	AA	1171	A	C8-N9-C4	5.04	107.82	105.80
1	AA	1329	A	C5-C6-N1	-5.04	115.18	117.70
1	AA	1456	A	C5'-C4'-O4'	5.04	115.15	109.10
1	AA	1486	G	C4-C5-C6	5.04	121.83	118.80
2	AB	22	G	C5-C6-N1	-5.04	108.98	111.50
25	BA	97	C	C3'-C2'-C1'	5.04	105.53	101.50
26	BB	14	A	C5-C6-N1	5.04	120.22	117.70
26	BB	167	A	C5-C6-N6	5.04	127.73	123.70
26	BB	400	G	C5-C6-N1	5.04	114.02	111.50
26	BB	674	G	C5'-C4'-O4'	5.04	115.15	109.10
26	BB	717	C	C5-C4-N4	5.04	123.73	120.20
26	BB	767	U	C6-N1-C2	-5.04	117.97	121.00
26	BB	814	C	N1-C1'-C2'	-5.04	106.45	112.00
26	BB	887	U	N3-C4-C5	-5.04	111.58	114.60
26	BB	1010	A	C8-N9-C1'	5.04	136.77	127.70
26	BB	1423	G	C6-C5-N7	5.04	133.42	130.40
26	BB	1595	C	C5-C6-N1	-5.04	118.48	121.00
26	BB	2688	G	C8-N9-C1'	5.04	133.56	127.00
26	BB	2838	G	C2'-C3'-O3'	5.04	121.77	113.70
30	BF	101	TYR	CA-CB-CG	5.04	122.98	113.40
1	AA	86	G	N3-C4-C5	5.04	131.12	128.60
1	AA	592	G	C4-C5-C6	5.04	121.82	118.80
1	AA	650	G	N7-C8-N9	5.04	115.62	113.10
1	AA	1501	C	N3-C4-C5	5.04	123.92	121.90
26	BB	519	U	N3-C4-O4	5.04	122.93	119.40
26	BB	1154	G	C4'-C3'-O3'	5.04	123.08	113.00
26	BB	1985	C	C1'-O4'-C4'	-5.04	105.87	109.90
26	BB	2255	G	C8-N9-C1'	5.04	133.55	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2599	G	C4-N9-C1'	-5.04	119.95	126.50
26	BB	2707	U	N3-C4-O4	5.04	122.93	119.40
1	AA	59	A	C2-N3-C4	-5.04	108.08	110.60
1	AA	356	A	P-O5'-C5'	5.04	128.96	120.90
1	AA	413	G	N9-C1'-C2'	5.04	120.55	114.00
1	AA	825	A	C6-C5-N7	5.04	135.83	132.30
1	AA	964	A	C8-N9-C4	-5.04	103.78	105.80
1	AA	1015	G	C6-C5-N7	-5.04	127.38	130.40
1	AA	1094	G	N1-C6-O6	-5.04	116.88	119.90
1	AA	1478	U	C4-C5-C6	5.04	122.72	119.70
1	AA	1488	G	C5-C6-N1	5.04	114.02	111.50
2	AB	65	C	N1-C2-O2	5.04	121.92	118.90
26	BB	255	A	N9-C4-C5	5.04	107.81	105.80
26	BB	271	G	C4-C5-N7	-5.04	108.78	110.80
26	BB	292	U	N1-C1'-C2'	-5.04	106.46	112.00
26	BB	376	G	C5-C6-N1	5.04	114.02	111.50
26	BB	1029	A	C5-C6-N6	-5.04	119.67	123.70
26	BB	1109	C	C2-N3-C4	5.04	122.42	119.90
26	BB	1328	A	C2-N3-C4	-5.04	108.08	110.60
26	BB	1416	G	C4-C5-N7	-5.04	108.78	110.80
26	BB	2224	G	C2-N3-C4	-5.04	109.38	111.90
26	BB	2570	G	C5-C6-O6	-5.04	125.58	128.60
26	BB	2809	A	C5-C6-N1	-5.04	115.18	117.70
1	AA	64	G	O4'-C4'-C3'	5.04	110.13	106.10
1	AA	159	G	N1-C2-N3	-5.04	120.88	123.90
1	AA	1357	A	O5'-P-OP2	5.04	116.75	110.70
1	AA	1529	G	O4'-C4'-C3'	5.04	110.13	106.10
3	AC	29	G	O4'-C4'-C3'	-5.04	98.96	104.00
25	BA	5	U	C3'-C2'-C1'	5.04	105.53	101.50
26	BB	1253	A	C1'-O4'-C4'	-5.04	105.87	109.90
26	BB	1741	C	N1-C1'-C2'	-5.04	106.46	112.00
26	BB	2330	G	C8-N9-C1'	5.04	133.55	127.00
1	AA	773	G	N3-C4-C5	-5.04	126.08	128.60
1	AA	810	C	N3-C2-O2	-5.04	118.38	121.90
1	AA	1289	A	P-O3'-C3'	5.04	125.74	119.70
1	AA	1500	A	C5'-C4'-C3'	-5.04	107.94	116.00
1	AA	1531	A	C4'-C3'-C2'	-5.04	97.56	102.60
2	AB	39	A	C2-N3-C4	5.04	113.12	110.60
25	BA	22	U	P-O5'-C5'	5.04	128.96	120.90
25	BA	69	G	O4'-C1'-N9	5.04	112.23	108.20
26	BB	54	G	C2-N3-C4	-5.04	109.38	111.90
26	BB	367	G	P-O3'-C3'	5.04	125.74	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	499	U	C4-C5-C6	-5.04	116.68	119.70
26	BB	788	A	O5'-P-OP1	-5.04	101.17	105.70
26	BB	890	C	C5-C4-N4	5.04	123.72	120.20
26	BB	1065	U	N3-C4-C5	-5.04	111.58	114.60
26	BB	1309	G	C6-N1-C2	-5.04	122.08	125.10
26	BB	1360	G	N3-C2-N2	-5.04	116.38	119.90
26	BB	2340	A	P-O3'-C3'	5.04	125.74	119.70
26	BB	2785	C	C5'-C4'-O4'	5.04	115.14	109.10
26	BB	2814	A	C4-C5-N7	-5.04	108.18	110.70
26	BB	2823	A	O3'-P-O5'	5.04	113.57	104.00
1	AA	444	G	O4'-C1'-N9	5.03	112.23	108.20
1	AA	540	G	N1-C2-N2	5.03	120.73	116.20
1	AA	630	A	C5-N7-C8	-5.03	101.38	103.90
2	AB	44	G	C4-N9-C1'	-5.03	119.95	126.50
3	AC	41	A	N7-C8-N9	5.03	116.32	113.80
4	AD	77	A	C5-C6-N1	-5.03	115.18	117.70
20	AT	72	TRP	CH2-CZ2-CE2	5.03	122.43	117.40
21	AU	71	ASP	OD1-CG-OD2	5.03	132.86	123.30
26	BB	145	C	C2-N3-C4	5.03	122.42	119.90
26	BB	582	A	P-O5'-C5'	5.03	128.95	120.90
26	BB	734	A	C5-C6-N6	5.03	127.73	123.70
26	BB	963	U	C5'-C4'-C3'	-5.03	107.95	116.00
26	BB	1312	U	P-O3'-C3'	5.03	125.74	119.70
26	BB	1408	G	C5-N7-C8	5.03	106.82	104.30
26	BB	2202	U	N1-C1'-C2'	-5.03	106.46	112.00
26	BB	2413	G	C8-N9-C4	5.03	108.41	106.40
26	BB	2594	C	C2-N3-C4	5.03	122.42	119.90
26	BB	2819	G	C4-C5-N7	-5.03	108.79	110.80
33	BI	68	ARG	NE-CZ-NH1	5.03	122.82	120.30
40	BP	109	PRO	N-CA-CB	5.03	109.34	103.30
1	AA	144	G	C5-C6-N1	5.03	114.02	111.50
1	AA	213	G	C5'-C4'-O4'	5.03	115.14	109.10
3	AC	49	U	C1'-O4'-C4'	-5.03	105.87	109.90
25	BA	54	G	C5-C6-O6	-5.03	125.58	128.60
26	BB	122	G	C1'-O4'-C4'	-5.03	105.87	109.90
26	BB	1102	C	N3-C4-C5	-5.03	119.89	121.90
26	BB	2416	C	N3-C4-N4	5.03	121.52	118.00
26	BB	2892	G	N7-C8-N9	5.03	115.62	113.10
1	AA	185	U	C5'-C4'-C3'	-5.03	107.95	116.00
1	AA	242	G	C4-C5-N7	5.03	112.81	110.80
1	AA	530	G	C5-C6-N1	-5.03	108.98	111.50
1	AA	541	G	N9-C1'-C2'	-5.03	106.47	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	732	C	O5'-C5'-C4'	-5.03	102.14	111.70
1	AA	777	A	N7-C8-N9	-5.03	111.28	113.80
1	AA	821	G	C6-C5-N7	-5.03	127.38	130.40
1	AA	915	A	C5'-C4'-O4'	5.03	115.14	109.10
1	AA	1265	C	N3-C4-C5	-5.03	119.89	121.90
1	AA	1268	G	P-O3'-C3'	5.03	125.74	119.70
2	AB	7	G	N1-C2-N2	5.03	120.73	116.20
2	AB	58	A	C5-N7-C8	-5.03	101.39	103.90
9	AI	121	ALA	N-CA-CB	5.03	117.14	110.10
26	BB	612	G	N1-C2-N2	5.03	120.73	116.20
26	BB	674	G	N9-C4-C5	5.03	107.41	105.40
26	BB	888	C	N3-C4-N4	-5.03	114.48	118.00
26	BB	1053	C	C1'-O4'-C4'	-5.03	105.88	109.90
26	BB	1171	G	C8-N9-C4	-5.03	104.39	106.40
26	BB	1218	G	C5-C6-N1	5.03	114.02	111.50
26	BB	1482	G	C5-C6-O6	5.03	131.62	128.60
26	BB	1487	U	N1-C1'-C2'	-5.03	106.47	112.00
26	BB	1546	G	N1-C2-N2	5.03	120.73	116.20
26	BB	1806	C	C1'-O4'-C4'	5.03	113.92	109.90
26	BB	2033	A	O4'-C1'-N9	-5.03	104.18	108.20
26	BB	2047	C	C5'-C4'-O4'	5.03	115.14	109.10
26	BB	2056	G	C5-N7-C8	5.03	106.82	104.30
26	BB	2242	G	P-O3'-C3'	5.03	125.74	119.70
26	BB	2257	U	C5-C4-O4	5.03	128.92	125.90
26	BB	2267	A	N9-C4-C5	5.03	107.81	105.80
26	BB	2782	G	C6-N1-C2	-5.03	122.08	125.10
26	BB	2844	G	C5'-C4'-O4'	5.03	115.14	109.10
28	BD	170	TYR	CG-CD1-CE1	-5.03	117.28	121.30
32	BH	108	PHE	CD1-CE1-CZ	-5.03	114.06	120.10
1	AA	343	U	C5-C6-N1	-5.03	120.19	122.70
1	AA	529	G	O4'-C4'-C3'	5.03	110.12	106.10
1	AA	582	C	C2'-C3'-O3'	5.03	121.75	113.70
1	AA	642	A	C4'-C3'-C2'	-5.03	97.57	102.60
1	AA	826	C	C2-N3-C4	-5.03	117.39	119.90
1	AA	1188	A	C5-C6-N6	-5.03	119.68	123.70
1	AA	1455	G	C5-C6-O6	-5.03	125.58	128.60
26	BB	41	C	P-O3'-C3'	5.03	125.73	119.70
26	BB	529	A	C3'-C2'-C1'	-5.03	97.48	101.50
26	BB	849	A	N1-C2-N3	-5.03	126.78	129.30
26	BB	1215	G	C5'-C4'-O4'	5.03	115.14	109.10
26	BB	1548	A	C4'-C3'-C2'	-5.03	97.57	102.60
26	BB	2718	G	N3-C4-N9	5.03	129.02	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2816	G	N1-C2-N2	5.03	120.73	116.20
1	AA	328	C	C3'-C2'-C1'	5.03	105.52	101.50
1	AA	383	A	N9-C1'-C2'	-5.03	106.47	112.00
1	AA	413	G	N3-C2-N2	-5.03	116.38	119.90
1	AA	983	A	C3'-C2'-C1'	5.03	105.52	101.50
25	BA	86	G	C4'-C3'-C2'	-5.03	97.57	102.60
26	BB	409	G	N3-C2-N2	-5.03	116.38	119.90
26	BB	899	A	P-O5'-C5'	5.03	128.94	120.90
26	BB	1072	C	C4'-C3'-C2'	5.03	107.63	102.60
26	BB	1117	C	N1-C2-O2	5.03	121.92	118.90
26	BB	1182	G	C4-C5-N7	-5.03	108.79	110.80
26	BB	1521	G	C5-C6-N1	5.03	114.01	111.50
26	BB	1609	A	C4'-C3'-C2'	-5.03	97.57	102.60
26	BB	1741	C	P-O3'-C3'	5.03	125.73	119.70
26	BB	1849	G	C5'-C4'-O4'	5.03	115.13	109.10
26	BB	1977	A	C5-N7-C8	-5.03	101.39	103.90
26	BB	2115	G	C2-N3-C4	5.03	114.41	111.90
26	BB	2140	G	C4-N9-C1'	-5.03	119.97	126.50
26	BB	2526	G	N3-C4-N9	-5.03	122.98	126.00
26	BB	2587	A	C4-C5-C6	-5.03	114.49	117.00
26	BB	2879	A	C5'-C4'-O4'	5.03	115.13	109.10
28	BD	202	ARG	CD-NE-CZ	5.03	130.64	123.60
39	BO	103	TYR	CB-CG-CD1	-5.03	117.98	121.00
1	AA	83	C	C4'-C3'-C2'	-5.03	97.57	102.60
1	AA	261	U	O4'-C1'-N1	5.03	112.22	108.20
1	AA	271	C	C2-N3-C4	-5.03	117.39	119.90
1	AA	454	G	C4-C5-C6	-5.03	115.78	118.80
1	AA	1294	G	C4-C5-C6	5.03	121.81	118.80
1	AA	1386	G	C6-N1-C2	5.03	128.12	125.10
1	AA	1444	U	N1-C2-N3	5.03	117.92	114.90
25	BA	74	U	N1-C2-O2	5.03	126.32	122.80
26	BB	28	A	C1'-O4'-C4'	-5.03	105.88	109.90
26	BB	156	A	C1'-O4'-C4'	-5.03	105.88	109.90
26	BB	308	G	N3-C4-N9	-5.03	122.98	126.00
26	BB	437	U	C5'-C4'-C3'	-5.03	107.96	116.00
26	BB	477	A	C5-N7-C8	-5.03	101.39	103.90
26	BB	696	G	C6-N1-C2	-5.03	122.08	125.10
26	BB	878	A	N1-C2-N3	5.03	131.81	129.30
26	BB	907	G	N9-C1'-C2'	-5.03	106.47	112.00
26	BB	978	G	C5-N7-C8	-5.03	101.79	104.30
26	BB	1036	G	N1-C6-O6	5.03	122.92	119.90
26	BB	1259	G	C3'-C2'-C1'	5.03	105.52	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1604	C	C5'-C4'-C3'	-5.03	107.96	116.00
26	BB	1607	C	N3-C2-O2	-5.03	118.38	121.90
26	BB	1781	U	N1-C2-O2	5.03	126.32	122.80
26	BB	2358	A	N3-C4-C5	-5.03	123.28	126.80
33	BI	56	ALA	N-CA-CB	5.03	117.14	110.10
1	AA	172	A	N3-C4-N9	-5.02	123.38	127.40
1	AA	436	C	C5-C4-N4	5.02	123.72	120.20
1	AA	1448	C	C1'-O4'-C4'	-5.02	105.88	109.90
26	BB	83	A	N9-C4-C5	5.02	107.81	105.80
26	BB	2363	G	O4'-C1'-N9	-5.02	104.18	108.20
26	BB	2866	U	N3-C4-C5	-5.02	111.58	114.60
1	AA	88	U	P-O3'-C3'	5.02	125.73	119.70
1	AA	154	U	N1-C2-N3	5.02	117.91	114.90
1	AA	397	A	C3'-C2'-C1'	5.02	105.52	101.50
1	AA	403	C	C5-C4-N4	-5.02	116.69	120.20
1	AA	533	A	C4'-C3'-C2'	-5.02	97.58	102.60
1	AA	587	G	N7-C8-N9	5.02	115.61	113.10
1	AA	662	U	C5'-C4'-O4'	5.02	115.13	109.10
1	AA	733	G	N7-C8-N9	5.02	115.61	113.10
1	AA	874	G	O4'-C1'-N9	5.02	112.22	108.20
1	AA	913	A	C4'-C3'-C2'	-5.02	97.58	102.60
1	AA	1278	G	C1'-O4'-C4'	-5.02	105.88	109.90
1	AA	1297	G	P-O3'-C3'	5.02	125.73	119.70
1	AA	1435	G	N9-C4-C5	-5.02	103.39	105.40
1	AA	1479	C	C4-C5-C6	5.02	119.91	117.40
14	AN	14	GLN	CB-CA-C	5.02	120.44	110.40
25	BA	63	C	C1'-O4'-C4'	-5.02	105.88	109.90
26	BB	2	G	N1-C6-O6	-5.02	116.89	119.90
26	BB	235	U	C1'-O4'-C4'	5.02	113.92	109.90
26	BB	336	C	N1-C2-N3	-5.02	115.69	119.20
26	BB	394	C	C5-C4-N4	-5.02	116.68	120.20
26	BB	842	U	C4-C5-C6	5.02	122.71	119.70
26	BB	1313	U	C3'-C2'-C1'	5.02	105.52	101.50
26	BB	1775	U	N3-C4-C5	-5.02	111.59	114.60
26	BB	1855	U	N3-C4-C5	-5.02	111.59	114.60
26	BB	2117	A	C5'-C4'-C3'	5.02	124.04	116.00
26	BB	2310	C	C4-C5-C6	5.02	119.91	117.40
26	BB	2719	G	C1'-O4'-C4'	-5.02	105.88	109.90
26	BB	2719	G	C6-C5-N7	-5.02	127.39	130.40
44	BT	84	ARG	CB-CA-C	5.02	120.44	110.40
1	AA	789	U	N3-C2-O2	-5.02	118.69	122.20
1	AA	988	G	C6-C5-N7	-5.02	127.39	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1456	A	C1'-O4'-C4'	-5.02	105.88	109.90
25	BA	51	G	N1-C6-O6	-5.02	116.89	119.90
25	BA	66	A	C5-N7-C8	-5.02	101.39	103.90
26	BB	1190	G	N1-C2-N2	5.02	120.72	116.20
26	BB	1462	C	C1'-O4'-C4'	-5.02	105.88	109.90
26	BB	2221	G	N1-C2-N3	-5.02	120.89	123.90
26	BB	2361	G	C5-N7-C8	-5.02	101.79	104.30
1	AA	186	C	N3-C4-N4	5.02	121.51	118.00
1	AA	297	G	C6-N1-C2	-5.02	122.09	125.10
1	AA	1015	G	O4'-C1'-N9	5.02	112.22	108.20
1	AA	1185	G	C8-N9-C1'	5.02	133.53	127.00
1	AA	1203	C	C5-C6-N1	5.02	123.51	121.00
1	AA	1437	A	P-O3'-C3'	5.02	125.72	119.70
2	AB	35	C	C5-C6-N1	5.02	123.51	121.00
10	AJ	3	ARG	NH1-CZ-NH2	-5.02	113.88	119.40
25	BA	52	A	O4'-C1'-N9	5.02	112.22	108.20
25	BA	95	U	C2-N3-C4	5.02	130.01	127.00
26	BB	228	C	P-O3'-C3'	5.02	125.72	119.70
26	BB	443	A	C5-C6-N6	5.02	127.72	123.70
26	BB	938	G	C8-N9-C4	-5.02	104.39	106.40
26	BB	950	G	N3-C2-N2	-5.02	116.39	119.90
26	BB	1179	G	N1-C2-N3	-5.02	120.89	123.90
26	BB	1462	C	O4'-C1'-N1	5.02	112.22	108.20
26	BB	1511	G	N1-C6-O6	-5.02	116.89	119.90
26	BB	1733	G	C5'-C4'-O4'	5.02	115.12	109.10
26	BB	1944	U	C4-C5-C6	5.02	122.71	119.70
26	BB	1961	C	C5-C6-N1	-5.02	118.49	121.00
26	BB	2556	C	C2-N3-C4	5.02	122.41	119.90
1	AA	261	U	P-O3'-C3'	5.02	125.72	119.70
1	AA	428	G	C8-N9-C4	5.02	108.41	106.40
1	AA	823	C	C6-N1-C2	-5.02	118.29	120.30
1	AA	991	U	N1-C2-O2	5.02	126.31	122.80
25	BA	102	G	O4'-C1'-N9	5.02	112.21	108.20
26	BB	398	C	C2-N3-C4	-5.02	117.39	119.90
26	BB	911	A	C5-C6-N6	-5.02	119.69	123.70
26	BB	1193	G	C4-N9-C1'	-5.02	119.98	126.50
26	BB	1226	A	C5-N7-C8	-5.02	101.39	103.90
26	BB	1469	A	O4'-C4'-C3'	5.02	110.11	106.10
26	BB	1936	A	C5'-C4'-O4'	5.02	115.12	109.10
26	BB	2004	G	C5'-C4'-C3'	-5.02	107.97	116.00
26	BB	2006	C	C5'-C4'-O4'	5.02	115.12	109.10
26	BB	2436	G	N1-C6-O6	-5.02	116.89	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BK	84	GLY	CA-C-O	-5.02	111.57	120.60
1	AA	711	G	N7-C8-N9	5.02	115.61	113.10
1	AA	1044	A	C6-N1-C2	5.02	121.61	118.60
1	AA	1075	U	C5-C6-N1	-5.02	120.19	122.70
1	AA	1277	C	C6-N1-C2	5.02	122.31	120.30
1	AA	1432	G	O4'-C1'-C2'	-5.02	100.78	105.80
3	AC	18	A	N1-C6-N6	5.02	121.61	118.60
3	AC	23	C	O4'-C4'-C3'	5.02	110.11	106.10
4	AD	26	C	C5-C4-N4	-5.02	116.69	120.20
26	BB	698	C	O5'-C5'-C4'	-5.02	102.17	111.70
26	BB	931	U	C4'-C3'-O3'	-5.02	98.87	109.40
26	BB	1622	G	C3'-C2'-C1'	-5.02	97.49	101.50
26	BB	1679	A	C3'-C2'-C1'	-5.02	97.49	101.50
26	BB	1949	G	N9-C1'-C2'	-5.02	106.48	112.00
26	BB	2464	G	N9-C4-C5	5.02	107.41	105.40
26	BB	2600	A	C4-C5-C6	-5.02	114.49	117.00
26	BB	2791	G	C4-C5-C6	-5.02	115.79	118.80
1	AA	82	G	C4-C5-C6	5.01	121.81	118.80
1	AA	258	G	C8-N9-C1'	5.01	133.52	127.00
1	AA	794	A	N3-C4-N9	-5.01	123.39	127.40
1	AA	897	C	C4'-C3'-C2'	-5.01	97.59	102.60
24	AX	6	ARG	CA-CB-CG	5.01	124.43	113.40
25	BA	73	A	N7-C8-N9	5.01	116.31	113.80
26	BB	141	G	N3-C4-C5	-5.01	126.09	128.60
26	BB	527	C	C4-C5-C6	-5.01	114.89	117.40
26	BB	917	A	C5-C6-N1	5.01	120.21	117.70
26	BB	1032	A	C4'-C3'-O3'	5.01	123.03	113.00
26	BB	1523	U	C5'-C4'-C3'	-5.01	107.98	116.00
26	BB	1830	C	C6-N1-C2	5.01	122.31	120.30
26	BB	2052	A	N1-C6-N6	-5.01	115.59	118.60
26	BB	2072	C	N3-C4-N4	5.01	121.51	118.00
26	BB	2345	G	C5-C6-O6	-5.01	125.59	128.60
26	BB	2711	A	C3'-C2'-C1'	5.01	105.51	101.50
1	AA	16	A	C5-N7-C8	5.01	106.41	103.90
1	AA	423	G	N7-C8-N9	5.01	115.61	113.10
1	AA	1015	G	C8-N9-C1'	5.01	133.52	127.00
1	AA	1348	U	C5-C4-O4	-5.01	122.89	125.90
11	AK	83	ARG	NE-CZ-NH2	-5.01	117.79	120.30
26	BB	340	A	C4'-C3'-C2'	-5.01	97.59	102.60
26	BB	406	G	N3-C4-N9	-5.01	122.99	126.00
26	BB	1024	G	C1'-O4'-C4'	5.01	113.91	109.90
26	BB	1130	U	N1-C1'-C2'	5.01	120.52	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1190	G	C2-N3-C4	5.01	114.41	111.90
26	BB	1729	U	C6-N1-C2	-5.01	117.99	121.00
26	BB	1858	A	N9-C1'-C2'	-5.01	106.48	112.00
26	BB	2192	U	O4'-C1'-C2'	-5.01	100.79	105.80
26	BB	2356	U	C2'-C3'-O3'	5.01	121.72	113.70
26	BB	2601	C	C6-N1-C1'	5.01	126.82	120.80
41	BQ	49	VAL	CG1-CB-CG2	5.01	118.92	110.90
1	AA	92	U	C5'-C4'-C3'	-5.01	107.98	116.00
1	AA	326	G	N3-C2-N2	5.01	123.41	119.90
1	AA	442	G	N3-C4-C5	-5.01	126.09	128.60
1	AA	616	G	O4'-C1'-C2'	5.01	112.11	107.60
1	AA	758	C	N1-C2-O2	5.01	121.91	118.90
1	AA	884	U	O4'-C1'-N1	5.01	112.21	108.20
1	AA	897	C	C3'-C2'-C1'	5.01	105.51	101.50
1	AA	1181	G	C5-N7-C8	5.01	106.81	104.30
3	AC	57	C	N1-C2-N3	5.01	122.71	119.20
4	AD	10	G	C6-N1-C2	-5.01	122.09	125.10
25	BA	39	A	C8-N9-C4	-5.01	103.80	105.80
26	BB	364	C	C2-N3-C4	-5.01	117.39	119.90
26	BB	1015	U	C4'-C3'-C2'	-5.01	97.59	102.60
26	BB	1026	G	C4-N9-C1'	-5.01	119.98	126.50
26	BB	1153	C	N3-C2-O2	-5.01	118.39	121.90
26	BB	1179	G	C2-N3-C4	5.01	114.41	111.90
26	BB	1325	U	C2-N3-C4	-5.01	123.99	127.00
26	BB	1358	G	C6-N1-C2	-5.01	122.09	125.10
26	BB	1675	C	C5-C4-N4	5.01	123.71	120.20
26	BB	1950	G	N1-C2-N3	-5.01	120.89	123.90
26	BB	2042	A	N3-C4-C5	-5.01	123.29	126.80
26	BB	2254	C	C2-N3-C4	5.01	122.41	119.90
26	BB	2260	C	C3'-C2'-C1'	-5.01	97.49	101.50
26	BB	2627	G	C6-N1-C2	-5.01	122.09	125.10
26	BB	2654	A	C4-C5-N7	5.01	113.21	110.70
26	BB	2785	C	O4'-C1'-N1	5.01	112.21	108.20
1	AA	129	A	C6-C5-N7	5.01	135.81	132.30
1	AA	222	C	C4'-C3'-C2'	-5.01	97.59	102.60
1	AA	314	C	N3-C4-C5	-5.01	119.90	121.90
1	AA	575	G	P-O3'-C3'	5.01	125.71	119.70
1	AA	1093	A	C1'-O4'-C4'	-5.01	105.89	109.90
2	AB	18	G	C4-C5-C6	5.01	121.81	118.80
3	AC	24	A	O4'-C4'-C3'	-5.01	98.99	104.00
25	BA	36	C	N3-C4-N4	5.01	121.51	118.00
25	BA	95	U	C4-C5-C6	5.01	122.71	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	44	A	C4-C5-C6	5.01	119.50	117.00
26	BB	46	G	C6-N1-C2	-5.01	122.09	125.10
26	BB	382	A	O4'-C4'-C3'	-5.01	98.99	104.00
26	BB	477	A	C4-C5-N7	5.01	113.20	110.70
26	BB	655	A	C1'-O4'-C4'	-5.01	105.89	109.90
26	BB	1011	G	N1-C2-N3	-5.01	120.89	123.90
26	BB	1485	U	C4-C5-C6	5.01	122.70	119.70
26	BB	1657	U	C5-C4-O4	5.01	128.91	125.90
26	BB	1695	G	C8-N9-C1'	-5.01	120.49	127.00
26	BB	1938	A	C5-C6-N6	5.01	127.71	123.70
26	BB	2181	U	C5-C6-N1	-5.01	120.20	122.70
26	BB	2265	U	C2-N3-C4	5.01	130.00	127.00
26	BB	2328	A	P-O3'-C3'	5.01	125.71	119.70
26	BB	2694	G	C4'-C3'-C2'	5.01	107.61	102.60
26	BB	2762	C	N3-C4-N4	-5.01	114.49	118.00
28	BD	2	VAL	CA-CB-CG2	5.01	118.42	110.90
29	BE	46	ARG	NH1-CZ-NH2	-5.01	113.89	119.40
49	BY	22	VAL	CA-CB-CG1	5.01	118.41	110.90
1	AA	617	G	C1'-O4'-C4'	5.01	113.91	109.90
25	BA	69	G	C4-C5-C6	-5.01	115.80	118.80
26	BB	194	G	N3-C4-C5	-5.01	126.10	128.60
26	BB	235	U	N1-C2-O2	5.01	126.31	122.80
26	BB	958	U	P-O3'-C3'	5.01	125.71	119.70
1	AA	682	G	C2'-C3'-O3'	5.01	121.71	113.70
1	AA	1536	C	O4'-C4'-C3'	5.01	110.11	106.10
7	AG	64	TYR	CZ-CE2-CD2	5.01	124.31	119.80
9	AI	110	ARG	CD-NE-CZ	5.01	130.61	123.60
9	AI	121	ALA	C-N-CA	5.01	134.22	121.70
26	BB	227	A	N3-C4-N9	5.01	131.41	127.40
26	BB	421	C	N1-C2-O2	5.01	121.90	118.90
26	BB	466	A	C3'-C2'-C1'	5.01	105.51	101.50
26	BB	586	A	C6-C5-N7	-5.01	128.79	132.30
26	BB	765	C	P-O3'-C3'	5.01	125.71	119.70
26	BB	981	A	C1'-O4'-C4'	-5.01	105.89	109.90
26	BB	1013	C	O4'-C4'-C3'	5.01	110.11	106.10
26	BB	1149	G	C8-N9-C4	-5.01	104.40	106.40
26	BB	1501	G	N3-C4-C5	-5.01	126.10	128.60
26	BB	2110	G	O5'-P-OP2	5.01	116.71	110.70
26	BB	2196	C	O4'-C1'-N1	5.01	112.20	108.20
26	BB	2314	A	N7-C8-N9	5.01	116.30	113.80
26	BB	2574	G	C8-N9-C1'	5.01	133.51	127.00
1	AA	92	U	O4'-C4'-C3'	-5.00	99.00	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	58	A	C4-C5-C6	-5.00	114.50	117.00
25	BA	48	U	C6-N1-C2	5.00	124.00	121.00
26	BB	1103	A	N7-C8-N9	-5.00	111.30	113.80
26	BB	1250	G	C6-C5-N7	-5.00	127.40	130.40
26	BB	1803	A	N1-C2-N3	-5.00	126.80	129.30
26	BB	2831	G	O3'-P-O5'	-5.00	94.49	104.00
1	AA	17	U	C5'-C4'-C3'	-5.00	107.99	116.00
1	AA	208	U	C5'-C4'-O4'	5.00	115.10	109.10
1	AA	610	U	C5-C6-N1	5.00	125.20	122.70
1	AA	1047	G	C5-C6-N1	5.00	114.00	111.50
1	AA	1085	U	C6-N1-C2	5.00	124.00	121.00
4	AD	5	G	C8-N9-C4	-5.00	104.40	106.40
25	BA	28	C	C4'-C3'-C2'	-5.00	97.60	102.60
26	BB	439	A	O4'-C1'-C2'	5.00	112.10	107.60
26	BB	612	G	C5-N7-C8	-5.00	101.80	104.30
26	BB	662	G	N1-C6-O6	-5.00	116.90	119.90
26	BB	1375	U	N1-C2-O2	-5.00	119.30	122.80
26	BB	1461	C	N3-C4-C5	5.00	123.90	121.90
26	BB	1709	U	C5-C4-O4	-5.00	122.90	125.90
26	BB	1972	G	O4'-C1'-N9	5.00	112.20	108.20
26	BB	2032	G	C4-N9-C1'	5.00	133.00	126.50
26	BB	2404	U	C5-C4-O4	5.00	128.90	125.90
26	BB	2501	C	C5'-C4'-C3'	5.00	124.01	116.00
35	BK	115	ASP	CB-CG-OD2	-5.00	113.80	118.30
1	AA	144	G	N1-C6-O6	-5.00	116.90	119.90
1	AA	393	A	C4-C5-C6	-5.00	114.50	117.00
1	AA	398	U	C1'-O4'-C4'	-5.00	105.90	109.90
1	AA	433	G	C5-C6-O6	-5.00	125.60	128.60
1	AA	872	A	C2-N3-C4	-5.00	108.10	110.60
1	AA	1131	G	N1-C6-O6	-5.00	116.90	119.90
2	AB	33	U	C5'-C4'-O4'	5.00	115.10	109.10
4	AD	36	A	N3-C4-N9	-5.00	123.40	127.40
26	BB	325	G	O3'-P-O5'	5.00	113.50	104.00
26	BB	339	U	C3'-C2'-C1'	-5.00	97.50	101.50
26	BB	1133	A	C5-N7-C8	5.00	106.40	103.90
26	BB	1251	C	N1-C1'-C2'	5.00	120.50	114.00
26	BB	1742	U	C2-N3-C4	5.00	130.00	127.00
26	BB	1969	A	C4-C5-N7	-5.00	108.20	110.70
26	BB	2158	A	O5'-C5'-C4'	5.00	121.20	111.70
26	BB	2228	G	N1-C2-N2	-5.00	111.70	116.20
26	BB	2534	A	C1'-O4'-C4'	-5.00	105.90	109.90
26	BB	2633	G	N3-C2-N2	-5.00	116.40	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BL	69	ARG	NE-CZ-NH1	5.00	122.80	120.30
47	BW	98	ASN	N-CA-CB	-5.00	101.60	110.60

There are no chirality outliers.

All (2927) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	100	G	Sidechain
1	AA	1002	G	Sidechain
1	AA	1004	A	Sidechain
1	AA	1005	A	Sidechain
1	AA	1006	G	Sidechain
1	AA	1008	U	Sidechain
1	AA	1009	U	Sidechain
1	AA	101	A	Sidechain
1	AA	1010	U	Sidechain
1	AA	1012	A	Sidechain
1	AA	1013	G	Sidechain
1	AA	1014	A	Sidechain
1	AA	1017	U	Sidechain
1	AA	1018	G	Sidechain
1	AA	102	G	Sidechain
1	AA	1029	U	Sidechain
1	AA	1032	G	Sidechain
1	AA	1033	G	Sidechain
1	AA	1037	C	Sidechain
1	AA	1040	U	Sidechain
1	AA	1042	A	Sidechain
1	AA	1045	C	Sidechain
1	AA	1046	A	Sidechain
1	AA	1047	G	Sidechain
1	AA	1048	G	Sidechain
1	AA	1049	U	Sidechain
1	AA	1050	G	Sidechain
1	AA	1051	C	Sidechain
1	AA	1054	C	Sidechain
1	AA	1057	G	Sidechain
1	AA	1061	G	Sidechain
1	AA	1064	G	Sidechain
1	AA	1066	C	Sidechain
1	AA	1067	A	Sidechain
1	AA	1068	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1069	C	Sidechain
1	AA	107	G	Sidechain
1	AA	1070	U	Sidechain
1	AA	1073	U	Sidechain
1	AA	1075	U	Sidechain
1	AA	1077	G	Sidechain
1	AA	1079	G	Sidechain
1	AA	108	G	Sidechain
1	AA	1081	A	Sidechain
1	AA	1082	A	Sidechain
1	AA	1085	U	Sidechain
1	AA	1089	G	Sidechain
1	AA	1092	A	Sidechain
1	AA	1093	A	Sidechain
1	AA	1094	G	Sidechain
1	AA	1095	U	Sidechain
1	AA	1096	C	Sidechain
1	AA	1097	C	Sidechain
1	AA	1099	G	Sidechain
1	AA	11	G	Sidechain
1	AA	110	C	Sidechain
1	AA	1101	A	Sidechain
1	AA	1104	G	Sidechain
1	AA	1105	A	Sidechain
1	AA	1106	G	Sidechain
1	AA	1108	G	Sidechain
1	AA	1109	C	Sidechain
1	AA	111	G	Sidechain
1	AA	1110	A	Sidechain
1	AA	1112	C	Sidechain
1	AA	1113	C	Sidechain
1	AA	1117	A	Sidechain
1	AA	1118	U	Sidechain
1	AA	1120	C	Sidechain
1	AA	1122	U	Sidechain
1	AA	1124	G	Sidechain
1	AA	1125	U	Sidechain
1	AA	1127	G	Sidechain
1	AA	113	G	Sidechain
1	AA	1130	A	Sidechain
1	AA	1131	G	Sidechain
1	AA	1132	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1133	G	Sidechain
1	AA	1134	G	Sidechain
1	AA	1136	C	Sidechain
1	AA	1137	C	Sidechain
1	AA	1138	G	Sidechain
1	AA	1139	G	Sidechain
1	AA	1141	C	Sidechain
1	AA	1143	G	Sidechain
1	AA	1144	G	Sidechain
1	AA	1148	U	Sidechain
1	AA	1149	C	Sidechain
1	AA	115	G	Sidechain
1	AA	1151	A	Sidechain
1	AA	1152	A	Sidechain
1	AA	1153	G	Sidechain
1	AA	1155	A	Sidechain
1	AA	1156	G	Sidechain
1	AA	1157	A	Sidechain
1	AA	116	A	Sidechain
1	AA	1162	C	Sidechain
1	AA	1164	G	Sidechain
1	AA	1166	G	Sidechain
1	AA	1168	U	Sidechain
1	AA	1169	A	Sidechain
1	AA	1170	A	Sidechain
1	AA	1171	A	Sidechain
1	AA	1173	U	Sidechain
1	AA	1174	G	Sidechain
1	AA	1175	G	Sidechain
1	AA	1177	G	Sidechain
1	AA	1178	G	Sidechain
1	AA	1180	A	Sidechain
1	AA	1182	G	Sidechain
1	AA	1183	U	Sidechain
1	AA	1184	G	Sidechain
1	AA	1185	G	Sidechain
1	AA	1186	G	Sidechain
1	AA	1187	G	Sidechain
1	AA	1188	A	Sidechain
1	AA	1189	U	Sidechain
1	AA	1190	G	Sidechain
1	AA	1191	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1193	G	Sidechain
1	AA	1194	U	Sidechain
1	AA	1198	G	Sidechain
1	AA	1199	U	Sidechain
1	AA	12	U	Sidechain
1	AA	1200	C	Sidechain
1	AA	1201	A	Sidechain
1	AA	1202	U	Sidechain
1	AA	1204	A	Sidechain
1	AA	1205	U	Sidechain
1	AA	1206	G	Sidechain
1	AA	121	U	Sidechain
1	AA	1210	C	Sidechain
1	AA	1212	U	Sidechain
1	AA	1213	A	Sidechain
1	AA	1214	C	Sidechain
1	AA	1215	G	Sidechain
1	AA	1216	A	Sidechain
1	AA	1217	C	Sidechain
1	AA	1219	A	Sidechain
1	AA	122	G	Sidechain
1	AA	1220	G	Sidechain
1	AA	1221	G	Sidechain
1	AA	1222	G	Sidechain
1	AA	1225	A	Sidechain
1	AA	1226	C	Sidechain
1	AA	123	U	Sidechain
1	AA	1230	C	Sidechain
1	AA	1232	U	Sidechain
1	AA	1233	G	Sidechain
1	AA	1234	C	Sidechain
1	AA	1236	A	Sidechain
1	AA	1237	C	Sidechain
1	AA	1239	A	Sidechain
1	AA	1240	U	Sidechain
1	AA	1241	G	Sidechain
1	AA	1243	C	Sidechain
1	AA	1244	G	Sidechain
1	AA	1247	U	Sidechain
1	AA	125	U	Sidechain
1	AA	1253	G	Sidechain
1	AA	1255	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1257	A	Sidechain
1	AA	1258	G	Sidechain
1	AA	126	G	Sidechain
1	AA	1261	A	Sidechain
1	AA	1263	C	Sidechain
1	AA	1264	U	Sidechain
1	AA	1266	G	Sidechain
1	AA	1268	G	Sidechain
1	AA	1269	A	Sidechain
1	AA	127	G	Sidechain
1	AA	1270	G	Sidechain
1	AA	1274	A	Sidechain
1	AA	1275	A	Sidechain
1	AA	1276	G	Sidechain
1	AA	1278	G	Sidechain
1	AA	128	G	Sidechain
1	AA	1280	A	Sidechain
1	AA	1281	C	Sidechain
1	AA	1284	C	Sidechain
1	AA	1286	U	Sidechain
1	AA	1289	A	Sidechain
1	AA	129	A	Sidechain
1	AA	1290	G	Sidechain
1	AA	1291	U	Sidechain
1	AA	1292	G	Sidechain
1	AA	1293	C	Sidechain
1	AA	1295	U	Sidechain
1	AA	1297	G	Sidechain
1	AA	1298	U	Sidechain
1	AA	1302	C	Sidechain
1	AA	1304	G	Sidechain
1	AA	1308	U	Sidechain
1	AA	1309	G	Sidechain
1	AA	131	A	Sidechain
1	AA	1310	G	Sidechain
1	AA	1312	G	Sidechain
1	AA	1313	U	Sidechain
1	AA	1315	U	Sidechain
1	AA	1316	G	Sidechain
1	AA	1317	C	Sidechain
1	AA	1318	A	Sidechain
1	AA	132	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1320	C	Sidechain
1	AA	1321	U	Sidechain
1	AA	1328	C	Sidechain
1	AA	133	U	Sidechain
1	AA	1330	U	Sidechain
1	AA	1333	A	Sidechain
1	AA	1334	G	Sidechain
1	AA	1336	C	Sidechain
1	AA	134	G	Sidechain
1	AA	1340	A	Sidechain
1	AA	1343	G	Sidechain
1	AA	1344	C	Sidechain
1	AA	1346	A	Sidechain
1	AA	1347	G	Sidechain
1	AA	1348	U	Sidechain
1	AA	135	C	Sidechain
1	AA	1351	U	Sidechain
1	AA	1353	G	Sidechain
1	AA	1356	G	Sidechain
1	AA	1357	A	Sidechain
1	AA	1358	U	Sidechain
1	AA	136	C	Sidechain
1	AA	1360	A	Sidechain
1	AA	1361	G	Sidechain
1	AA	1362	A	Sidechain
1	AA	1363	A	Sidechain
1	AA	1364	U	Sidechain
1	AA	1366	C	Sidechain
1	AA	1368	A	Sidechain
1	AA	1369	C	Sidechain
1	AA	1370	G	Sidechain
1	AA	1371	G	Sidechain
1	AA	1373	G	Sidechain
1	AA	1375	A	Sidechain
1	AA	1376	U	Sidechain
1	AA	1377	A	Sidechain
1	AA	1379	G	Sidechain
1	AA	1381	U	Sidechain
1	AA	1382	C	Sidechain
1	AA	1383	C	Sidechain
1	AA	1385	G	Sidechain
1	AA	139	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1391	U	Sidechain
1	AA	1392	G	Sidechain
1	AA	1393	U	Sidechain
1	AA	1394	A	Sidechain
1	AA	1395	C	Sidechain
1	AA	1399	C	Sidechain
1	AA	14	U	Sidechain
1	AA	140	U	Sidechain
1	AA	1403	C	Sidechain
1	AA	1405	G	Sidechain
1	AA	1406	U	Sidechain
1	AA	141	G	Sidechain
1	AA	1411	C	Sidechain
1	AA	1412	C	Sidechain
1	AA	1413	A	Sidechain
1	AA	1415	G	Sidechain
1	AA	1416	G	Sidechain
1	AA	1417	G	Sidechain
1	AA	1419	G	Sidechain
1	AA	142	G	Sidechain
1	AA	1420	U	Sidechain
1	AA	1421	G	Sidechain
1	AA	1425	U	Sidechain
1	AA	1428	A	Sidechain
1	AA	143	A	Sidechain
1	AA	1430	A	Sidechain
1	AA	1432	G	Sidechain
1	AA	1433	A	Sidechain
1	AA	1434	A	Sidechain
1	AA	1436	U	Sidechain
1	AA	1437	A	Sidechain
1	AA	144	G	Sidechain
1	AA	1440	U	Sidechain
1	AA	1443	C	Sidechain
1	AA	1445	U	Sidechain
1	AA	1450	U	Sidechain
1	AA	1452	C	Sidechain
1	AA	1453	G	Sidechain
1	AA	1454	G	Sidechain
1	AA	1455	G	Sidechain
1	AA	1456	A	Sidechain
1	AA	1457	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1458	G	Sidechain
1	AA	146	G	Sidechain
1	AA	1460	C	Sidechain
1	AA	1461	G	Sidechain
1	AA	1463	U	Sidechain
1	AA	1464	U	Sidechain
1	AA	1465	A	Sidechain
1	AA	1466	C	Sidechain
1	AA	1467	C	Sidechain
1	AA	1469	C	Sidechain
1	AA	147	G	Sidechain
1	AA	1470	U	Sidechain
1	AA	1471	U	Sidechain
1	AA	1472	U	Sidechain
1	AA	1473	G	Sidechain
1	AA	1475	G	Sidechain
1	AA	1477	U	Sidechain
1	AA	148	G	Sidechain
1	AA	1480	A	Sidechain
1	AA	1481	U	Sidechain
1	AA	1482	G	Sidechain
1	AA	1483	A	Sidechain
1	AA	1485	U	Sidechain
1	AA	1486	G	Sidechain
1	AA	1487	G	Sidechain
1	AA	1488	G	Sidechain
1	AA	1489	G	Sidechain
1	AA	1490	U	Sidechain
1	AA	1494	G	Sidechain
1	AA	1499	A	Sidechain
1	AA	1501	C	Sidechain
1	AA	1503	A	Sidechain
1	AA	1504	G	Sidechain
1	AA	1506	U	Sidechain
1	AA	1508	A	Sidechain
1	AA	151	A	Sidechain
1	AA	1513	A	Sidechain
1	AA	1514	G	Sidechain
1	AA	1517	G	Sidechain
1	AA	152	A	Sidechain
1	AA	1521	C	Sidechain
1	AA	1522	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1523	G	Sidechain
1	AA	1525	G	Sidechain
1	AA	1527	U	Sidechain
1	AA	1528	U	Sidechain
1	AA	153	C	Sidechain
1	AA	1530	G	Sidechain
1	AA	1531	A	Sidechain
1	AA	1535	C	Sidechain
1	AA	1536	C	Sidechain
1	AA	1541	U	Sidechain
1	AA	156	C	Sidechain
1	AA	157	U	Sidechain
1	AA	158	G	Sidechain
1	AA	159	G	Sidechain
1	AA	160	A	Sidechain
1	AA	161	A	Sidechain
1	AA	165	G	Sidechain
1	AA	166	U	Sidechain
1	AA	168	G	Sidechain
1	AA	171	A	Sidechain
1	AA	172	A	Sidechain
1	AA	173	U	Sidechain
1	AA	174	A	Sidechain
1	AA	176	C	Sidechain
1	AA	177	G	Sidechain
1	AA	178	C	Sidechain
1	AA	179	A	Sidechain
1	AA	180	U	Sidechain
1	AA	182	A	Sidechain
1	AA	183	C	Sidechain
1	AA	184	G	Sidechain
1	AA	186	C	Sidechain
1	AA	191	G	Sidechain
1	AA	195	A	Sidechain
1	AA	196	A	Sidechain
1	AA	198	G	Sidechain
1	AA	199	A	Sidechain
1	AA	200	G	Sidechain
1	AA	201	G	Sidechain
1	AA	202	G	Sidechain
1	AA	203	G	Sidechain
1	AA	204	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	208	U	Sidechain
1	AA	21	G	Sidechain
1	AA	210	C	Sidechain
1	AA	211	G	Sidechain
1	AA	212	G	Sidechain
1	AA	213	G	Sidechain
1	AA	214	C	Sidechain
1	AA	215	C	Sidechain
1	AA	217	C	Sidechain
1	AA	219	U	Sidechain
1	AA	22	G	Sidechain
1	AA	220	G	Sidechain
1	AA	221	C	Sidechain
1	AA	224	U	Sidechain
1	AA	225	C	Sidechain
1	AA	228	A	Sidechain
1	AA	229	U	Sidechain
1	AA	23	C	Sidechain
1	AA	230	G	Sidechain
1	AA	231	U	Sidechain
1	AA	232	G	Sidechain
1	AA	233	C	Sidechain
1	AA	236	A	Sidechain
1	AA	237	G	Sidechain
1	AA	238	A	Sidechain
1	AA	24	U	Sidechain
1	AA	240	G	Sidechain
1	AA	241	G	Sidechain
1	AA	242	G	Sidechain
1	AA	244	U	Sidechain
1	AA	245	U	Sidechain
1	AA	246	A	Sidechain
1	AA	247	G	Sidechain
1	AA	249	U	Sidechain
1	AA	250	A	Sidechain
1	AA	251	G	Sidechain
1	AA	252	U	Sidechain
1	AA	253	A	Sidechain
1	AA	254	G	Sidechain
1	AA	256	U	Sidechain
1	AA	257	G	Sidechain
1	AA	258	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	259	G	Sidechain
1	AA	260	G	Sidechain
1	AA	261	U	Sidechain
1	AA	265	G	Sidechain
1	AA	266	G	Sidechain
1	AA	267	C	Sidechain
1	AA	27	G	Sidechain
1	AA	271	C	Sidechain
1	AA	272	C	Sidechain
1	AA	275	G	Sidechain
1	AA	279	A	Sidechain
1	AA	280	C	Sidechain
1	AA	281	G	Sidechain
1	AA	283	U	Sidechain
1	AA	284	C	Sidechain
1	AA	285	C	Sidechain
1	AA	288	A	Sidechain
1	AA	293	G	Sidechain
1	AA	294	U	Sidechain
1	AA	297	G	Sidechain
1	AA	298	A	Sidechain
1	AA	299	G	Sidechain
1	AA	3	A	Sidechain
1	AA	300	A	Sidechain
1	AA	301	G	Sidechain
1	AA	304	U	Sidechain
1	AA	306	A	Sidechain
1	AA	308	C	Sidechain
1	AA	310	G	Sidechain
1	AA	312	C	Sidechain
1	AA	313	A	Sidechain
1	AA	315	A	Sidechain
1	AA	316	C	Sidechain
1	AA	317	U	Sidechain
1	AA	318	G	Sidechain
1	AA	320	A	Sidechain
1	AA	321	A	Sidechain
1	AA	322	C	Sidechain
1	AA	323	U	Sidechain
1	AA	324	G	Sidechain
1	AA	326	G	Sidechain
1	AA	328	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	329	A	Sidechain
1	AA	33	A	Sidechain
1	AA	331	G	Sidechain
1	AA	332	G	Sidechain
1	AA	334	C	Sidechain
1	AA	335	C	Sidechain
1	AA	337	G	Sidechain
1	AA	338	A	Sidechain
1	AA	342	C	Sidechain
1	AA	343	U	Sidechain
1	AA	345	C	Sidechain
1	AA	346	G	Sidechain
1	AA	348	G	Sidechain
1	AA	35	G	Sidechain
1	AA	350	G	Sidechain
1	AA	352	C	Sidechain
1	AA	355	C	Sidechain
1	AA	356	A	Sidechain
1	AA	357	G	Sidechain
1	AA	358	U	Sidechain
1	AA	359	G	Sidechain
1	AA	360	G	Sidechain
1	AA	362	G	Sidechain
1	AA	364	A	Sidechain
1	AA	365	U	Sidechain
1	AA	367	U	Sidechain
1	AA	37	U	Sidechain
1	AA	371	A	Sidechain
1	AA	373	A	Sidechain
1	AA	375	U	Sidechain
1	AA	376	G	Sidechain
1	AA	378	G	Sidechain
1	AA	379	C	Sidechain
1	AA	38	G	Sidechain
1	AA	380	G	Sidechain
1	AA	381	C	Sidechain
1	AA	382	A	Sidechain
1	AA	383	A	Sidechain
1	AA	387	U	Sidechain
1	AA	388	G	Sidechain
1	AA	39	G	Sidechain
1	AA	390	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	391	G	Sidechain
1	AA	394	G	Sidechain
1	AA	395	C	Sidechain
1	AA	399	G	Sidechain
1	AA	4	U	Sidechain
1	AA	40	C	Sidechain
1	AA	401	C	Sidechain
1	AA	402	G	Sidechain
1	AA	403	C	Sidechain
1	AA	404	G	Sidechain
1	AA	409	U	Sidechain
1	AA	41	G	Sidechain
1	AA	411	A	Sidechain
1	AA	413	G	Sidechain
1	AA	416	G	Sidechain
1	AA	417	G	Sidechain
1	AA	418	C	Sidechain
1	AA	42	G	Sidechain
1	AA	420	U	Sidechain
1	AA	421	U	Sidechain
1	AA	423	G	Sidechain
1	AA	424	G	Sidechain
1	AA	425	G	Sidechain
1	AA	426	U	Sidechain
1	AA	427	U	Sidechain
1	AA	429	U	Sidechain
1	AA	43	C	Sidechain
1	AA	430	A	Sidechain
1	AA	432	A	Sidechain
1	AA	433	G	Sidechain
1	AA	434	U	Sidechain
1	AA	437	U	Sidechain
1	AA	44	A	Sidechain
1	AA	440	C	Sidechain
1	AA	442	G	Sidechain
1	AA	445	G	Sidechain
1	AA	446	G	Sidechain
1	AA	449	G	Sidechain
1	AA	450	G	Sidechain
1	AA	457	G	Sidechain
1	AA	459	A	Sidechain
1	AA	46	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	461	A	Sidechain
1	AA	463	U	Sidechain
1	AA	464	U	Sidechain
1	AA	466	A	Sidechain
1	AA	468	A	Sidechain
1	AA	469	C	Sidechain
1	AA	47	C	Sidechain
1	AA	470	C	Sidechain
1	AA	474	G	Sidechain
1	AA	476	U	Sidechain
1	AA	478	A	Sidechain
1	AA	481	G	Sidechain
1	AA	483	C	Sidechain
1	AA	484	G	Sidechain
1	AA	488	C	Sidechain
1	AA	489	C	Sidechain
1	AA	49	U	Sidechain
1	AA	493	A	Sidechain
1	AA	495	A	Sidechain
1	AA	499	A	Sidechain
1	AA	50	A	Sidechain
1	AA	500	G	Sidechain
1	AA	504	C	Sidechain
1	AA	505	G	Sidechain
1	AA	508	U	Sidechain
1	AA	509	A	Sidechain
1	AA	511	C	Sidechain
1	AA	517	G	Sidechain
1	AA	519	C	Sidechain
1	AA	520	A	Sidechain
1	AA	521	G	Sidechain
1	AA	523	A	Sidechain
1	AA	524	G	Sidechain
1	AA	528	C	Sidechain
1	AA	529	G	Sidechain
1	AA	53	A	Sidechain
1	AA	530	G	Sidechain
1	AA	534	U	Sidechain
1	AA	536	C	Sidechain
1	AA	537	G	Sidechain
1	AA	538	G	Sidechain
1	AA	539	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	540	G	Sidechain
1	AA	541	G	Sidechain
1	AA	542	G	Sidechain
1	AA	543	U	Sidechain
1	AA	545	C	Sidechain
1	AA	548	G	Sidechain
1	AA	550	G	Sidechain
1	AA	551	U	Sidechain
1	AA	552	U	Sidechain
1	AA	553	A	Sidechain
1	AA	554	A	Sidechain
1	AA	557	G	Sidechain
1	AA	558	G	Sidechain
1	AA	56	U	Sidechain
1	AA	560	A	Sidechain
1	AA	562	U	Sidechain
1	AA	566	G	Sidechain
1	AA	574	A	Sidechain
1	AA	578	C	Sidechain
1	AA	579	A	Sidechain
1	AA	58	C	Sidechain
1	AA	580	C	Sidechain
1	AA	581	G	Sidechain
1	AA	584	G	Sidechain
1	AA	585	G	Sidechain
1	AA	587	G	Sidechain
1	AA	588	G	Sidechain
1	AA	590	U	Sidechain
1	AA	592	G	Sidechain
1	AA	598	U	Sidechain
1	AA	6	G	Sidechain
1	AA	600	A	Sidechain
1	AA	602	A	Sidechain
1	AA	603	U	Sidechain
1	AA	604	G	Sidechain
1	AA	606	G	Sidechain
1	AA	609	A	Sidechain
1	AA	61	G	Sidechain
1	AA	610	U	Sidechain
1	AA	611	C	Sidechain
1	AA	612	C	Sidechain
1	AA	614	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	615	G	Sidechain
1	AA	616	G	Sidechain
1	AA	617	G	Sidechain
1	AA	618	C	Sidechain
1	AA	620	C	Sidechain
1	AA	621	A	Sidechain
1	AA	622	A	Sidechain
1	AA	623	C	Sidechain
1	AA	624	C	Sidechain
1	AA	625	U	Sidechain
1	AA	628	G	Sidechain
1	AA	63	C	Sidechain
1	AA	630	A	Sidechain
1	AA	631	C	Sidechain
1	AA	633	G	Sidechain
1	AA	634	C	Sidechain
1	AA	635	A	Sidechain
1	AA	637	C	Sidechain
1	AA	639	G	Sidechain
1	AA	64	G	Sidechain
1	AA	644	U	Sidechain
1	AA	645	G	Sidechain
1	AA	646	G	Sidechain
1	AA	648	A	Sidechain
1	AA	65	A	Sidechain
1	AA	650	G	Sidechain
1	AA	652	U	Sidechain
1	AA	654	G	Sidechain
1	AA	656	G	Sidechain
1	AA	657	U	Sidechain
1	AA	659	U	Sidechain
1	AA	66	A	Sidechain
1	AA	666	G	Sidechain
1	AA	668	G	Sidechain
1	AA	669	G	Sidechain
1	AA	670	G	Sidechain
1	AA	671	G	Sidechain
1	AA	674	G	Sidechain
1	AA	676	A	Sidechain
1	AA	677	U	Sidechain
1	AA	678	U	Sidechain
1	AA	679	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	68	G	Sidechain
1	AA	680	C	Sidechain
1	AA	681	A	Sidechain
1	AA	684	U	Sidechain
1	AA	685	G	Sidechain
1	AA	686	U	Sidechain
1	AA	69	G	Sidechain
1	AA	690	G	Sidechain
1	AA	691	G	Sidechain
1	AA	692	U	Sidechain
1	AA	695	A	Sidechain
1	AA	696	A	Sidechain
1	AA	697	U	Sidechain
1	AA	698	G	Sidechain
1	AA	7	A	Sidechain
1	AA	70	U	Sidechain
1	AA	700	G	Sidechain
1	AA	702	A	Sidechain
1	AA	703	G	Sidechain
1	AA	704	A	Sidechain
1	AA	705	G	Sidechain
1	AA	706	A	Sidechain
1	AA	707	U	Sidechain
1	AA	708	C	Sidechain
1	AA	71	A	Sidechain
1	AA	711	G	Sidechain
1	AA	713	G	Sidechain
1	AA	717	U	Sidechain
1	AA	718	A	Sidechain
1	AA	719	C	Sidechain
1	AA	72	A	Sidechain
1	AA	720	C	Sidechain
1	AA	723	U	Sidechain
1	AA	724	G	Sidechain
1	AA	726	C	Sidechain
1	AA	727	G	Sidechain
1	AA	729	A	Sidechain
1	AA	730	G	Sidechain
1	AA	731	G	Sidechain
1	AA	734	G	Sidechain
1	AA	74	A	Sidechain
1	AA	740	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	741	G	Sidechain
1	AA	744	C	Sidechain
1	AA	747	A	Sidechain
1	AA	749	A	Sidechain
1	AA	75	G	Sidechain
1	AA	750	C	Sidechain
1	AA	751	U	Sidechain
1	AA	752	G	Sidechain
1	AA	753	A	Sidechain
1	AA	755	G	Sidechain
1	AA	757	U	Sidechain
1	AA	758	C	Sidechain
1	AA	759	A	Sidechain
1	AA	76	G	Sidechain
1	AA	762	U	Sidechain
1	AA	763	G	Sidechain
1	AA	764	C	Sidechain
1	AA	765	G	Sidechain
1	AA	766	A	Sidechain
1	AA	77	A	Sidechain
1	AA	770	C	Sidechain
1	AA	771	G	Sidechain
1	AA	773	G	Sidechain
1	AA	774	G	Sidechain
1	AA	775	G	Sidechain
1	AA	778	G	Sidechain
1	AA	78	A	Sidechain
1	AA	781	A	Sidechain
1	AA	785	G	Sidechain
1	AA	786	G	Sidechain
1	AA	787	A	Sidechain
1	AA	789	U	Sidechain
1	AA	79	G	Sidechain
1	AA	791	G	Sidechain
1	AA	793	U	Sidechain
1	AA	794	A	Sidechain
1	AA	795	C	Sidechain
1	AA	796	C	Sidechain
1	AA	80	A	Sidechain
1	AA	800	G	Sidechain
1	AA	801	U	Sidechain
1	AA	802	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	803	G	Sidechain
1	AA	804	U	Sidechain
1	AA	805	C	Sidechain
1	AA	81	A	Sidechain
1	AA	810	C	Sidechain
1	AA	811	C	Sidechain
1	AA	812	G	Sidechain
1	AA	813	U	Sidechain
1	AA	815	A	Sidechain
1	AA	816	A	Sidechain
1	AA	818	G	Sidechain
1	AA	819	A	Sidechain
1	AA	820	U	Sidechain
1	AA	821	G	Sidechain
1	AA	822	U	Sidechain
1	AA	825	A	Sidechain
1	AA	829	G	Sidechain
1	AA	83	C	Sidechain
1	AA	830	G	Sidechain
1	AA	832	G	Sidechain
1	AA	833	G	Sidechain
1	AA	835	U	Sidechain
1	AA	842	U	Sidechain
1	AA	843	U	Sidechain
1	AA	844	G	Sidechain
1	AA	846	G	Sidechain
1	AA	847	G	Sidechain
1	AA	849	G	Sidechain
1	AA	85	U	Sidechain
1	AA	854	U	Sidechain
1	AA	855	U	Sidechain
1	AA	856	C	Sidechain
1	AA	858	G	Sidechain
1	AA	859	G	Sidechain
1	AA	86	G	Sidechain
1	AA	860	A	Sidechain
1	AA	861	G	Sidechain
1	AA	862	C	Sidechain
1	AA	863	U	Sidechain
1	AA	864	A	Sidechain
1	AA	866	C	Sidechain
1	AA	869	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	87	C	Sidechain
1	AA	870	U	Sidechain
1	AA	871	U	Sidechain
1	AA	872	A	Sidechain
1	AA	874	G	Sidechain
1	AA	875	U	Sidechain
1	AA	877	G	Sidechain
1	AA	878	A	Sidechain
1	AA	879	C	Sidechain
1	AA	88	U	Sidechain
1	AA	881	G	Sidechain
1	AA	883	C	Sidechain
1	AA	884	U	Sidechain
1	AA	885	G	Sidechain
1	AA	886	G	Sidechain
1	AA	887	G	Sidechain
1	AA	888	G	Sidechain
1	AA	889	A	Sidechain
1	AA	89	U	Sidechain
1	AA	890	G	Sidechain
1	AA	895	G	Sidechain
1	AA	898	G	Sidechain
1	AA	9	G	Sidechain
1	AA	90	C	Sidechain
1	AA	900	A	Sidechain
1	AA	901	A	Sidechain
1	AA	902	G	Sidechain
1	AA	903	G	Sidechain
1	AA	905	U	Sidechain
1	AA	906	A	Sidechain
1	AA	907	A	Sidechain
1	AA	908	A	Sidechain
1	AA	910	C	Sidechain
1	AA	914	A	Sidechain
1	AA	916	U	Sidechain
1	AA	919	A	Sidechain
1	AA	92	U	Sidechain
1	AA	920	U	Sidechain
1	AA	922	G	Sidechain
1	AA	923	A	Sidechain
1	AA	924	C	Sidechain
1	AA	925	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	926	G	Sidechain
1	AA	928	G	Sidechain
1	AA	929	G	Sidechain
1	AA	933	G	Sidechain
1	AA	934	C	Sidechain
1	AA	937	A	Sidechain
1	AA	938	A	Sidechain
1	AA	939	G	Sidechain
1	AA	94	G	Sidechain
1	AA	941	G	Sidechain
1	AA	942	G	Sidechain
1	AA	943	U	Sidechain
1	AA	944	G	Sidechain
1	AA	945	G	Sidechain
1	AA	946	A	Sidechain
1	AA	947	G	Sidechain
1	AA	949	A	Sidechain
1	AA	95	C	Sidechain
1	AA	950	U	Sidechain
1	AA	951	G	Sidechain
1	AA	953	G	Sidechain
1	AA	954	G	Sidechain
1	AA	957	U	Sidechain
1	AA	958	A	Sidechain
1	AA	960	U	Sidechain
1	AA	961	U	Sidechain
1	AA	962	C	Sidechain
1	AA	963	G	Sidechain
1	AA	965	U	Sidechain
1	AA	968	A	Sidechain
1	AA	97	G	Sidechain
1	AA	970	C	Sidechain
1	AA	971	G	Sidechain
1	AA	972	C	Sidechain
1	AA	973	G	Sidechain
1	AA	974	A	Sidechain
1	AA	975	A	Sidechain
1	AA	976	G	Sidechain
1	AA	977	A	Sidechain
1	AA	978	A	Sidechain
1	AA	98	A	Sidechain
1	AA	981	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	982	U	Sidechain
1	AA	983	A	Sidechain
1	AA	984	C	Sidechain
1	AA	986	U	Sidechain
1	AA	987	G	Sidechain
1	AA	989	U	Sidechain
1	AA	99	C	Sidechain
1	AA	991	U	Sidechain
1	AA	992	U	Sidechain
1	AA	994	A	Sidechain
1	AA	995	C	Sidechain
1	AA	996	A	Sidechain
1	AA	998	C	Sidechain
2	AB	1	A	Sidechain
2	AB	10	G	Sidechain
2	AB	11	U	Sidechain
2	AB	12	U	Sidechain
2	AB	13	C	Sidechain
2	AB	15	A	Sidechain
2	AB	19	G	Sidechain
2	AB	2	G	Sidechain
2	AB	21	A	Sidechain
2	AB	22	G	Sidechain
2	AB	23	A	Sidechain
2	AB	24	G	Sidechain
2	AB	26	A	Sidechain
2	AB	27	C	Sidechain
2	AB	29	G	Sidechain
2	AB	31	U	Sidechain
2	AB	34	C	Sidechain
2	AB	35	C	Sidechain
2	AB	36	A	Sidechain
2	AB	4	G	Sidechain
2	AB	41	C	Sidechain
2	AB	43	G	Sidechain
2	AB	44	G	Sidechain
2	AB	45	U	Sidechain
2	AB	47	U	Sidechain
2	AB	49	G	Sidechain
2	AB	50	G	Sidechain
2	AB	56	C	Sidechain
2	AB	58	A	Sidechain

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Mol	Chain	Res	Type	Group
2	AB	60	U	Sidechain
2	AB	61	C	Sidechain
2	AB	62	U	Sidechain
2	AB	63	C	Sidechain
2	AB	65	C	Sidechain
2	AB	66	C	Sidechain
2	AB	67	G	Sidechain
2	AB	7	G	Sidechain
2	AB	72	U	Sidechain
2	AB	9	A	Sidechain
3	AC	14	G	Sidechain
3	AC	17	U	Sidechain
3	AC	18	A	Sidechain
3	AC	22	G	Sidechain
3	AC	25	U	Sidechain
3	AC	26	U	Sidechain
3	AC	27	A	Sidechain
3	AC	28	U	Sidechain
3	AC	31	U	Sidechain
3	AC	33	A	Sidechain
3	AC	35	G	Sidechain
3	AC	37	G	Sidechain
3	AC	38	G	Sidechain
3	AC	40	G	Sidechain
3	AC	42	U	Sidechain
3	AC	49	U	Sidechain
3	AC	51	C	Sidechain
3	AC	52	U	Sidechain
3	AC	53	G	Sidechain
3	AC	54	U	Sidechain
3	AC	55	A	Sidechain
3	AC	56	G	Sidechain
3	AC	59	A	Sidechain
4	AD	10	G	Sidechain
4	AD	14	A	Sidechain
4	AD	15	G	Sidechain
4	AD	17	C	Sidechain
4	AD	19	G	Sidechain
4	AD	20	G	Sidechain
4	AD	22	A	Sidechain
4	AD	23	G	Sidechain
4	AD	27	G	Sidechain

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Mol	Chain	Res	Type	Group
4	AD	28	U	Sidechain
4	AD	29	C	Sidechain
4	AD	3	C	Sidechain
4	AD	30	G	Sidechain
4	AD	31	G	Sidechain
4	AD	32	G	Sidechain
4	AD	35	C	Sidechain
4	AD	36	A	Sidechain
4	AD	38	A	Sidechain
4	AD	4	G	Sidechain
4	AD	46	G	Sidechain
4	AD	47	A	Sidechain
4	AD	49	C	Sidechain
4	AD	50	G	Sidechain
4	AD	52	C	Sidechain
4	AD	54	G	Sidechain
4	AD	58	A	Sidechain
4	AD	6	G	Sidechain
4	AD	60	A	Sidechain
4	AD	7	G	Sidechain
4	AD	70	C	Sidechain
4	AD	74	A	Sidechain
4	AD	75	C	Sidechain
4	AD	76	C	Sidechain
4	AD	9	G	Sidechain
5	AE	212	TYR	Sidechain
5	AE	221	ARG	Sidechain
5	AE	29	PHE	Sidechain
5	AE	34	ARG	Sidechain
5	AE	85	SER	Mainchain
5	AE	86	CYS	Peptide
6	AF	10	ARG	Peptide
6	AF	112	ALA	Mainchain
6	AF	125	ARG	Sidechain
6	AF	168	ARG	Sidechain
6	AF	183	TYR	Sidechain
6	AF	202	PHE	Sidechain
6	AF	228	ARG	Sidechain
6	AF	39	ARG	Sidechain
7	AG	102	TYR	Sidechain
7	AG	106	PHE	Mainchain,Peptide
7	AG	12	ARG	Sidechain

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Mol	Chain	Res	Type	Group
7	AG	13	ARG	Sidechain
7	AG	187	ARG	Sidechain
7	AG	50	TYR	Sidechain
7	AG	62	ARG	Sidechain
7	AG	67	LEU	Mainchain
7	AG	75	TYR	Sidechain
7	AG	81	LEU	Peptide
8	AH	127	TYR	Mainchain
8	AH	19	ARG	Sidechain
8	AH	49	TYR	Sidechain
8	AH	67	ARG	Sidechain
8	AH	92	ARG	Sidechain
9	AI	109	ARG	Sidechain
9	AI	111	GLU	Peptide
9	AI	113	ARG	Sidechain
9	AI	25	TYR	Sidechain
9	AI	38	ARG	Sidechain
9	AI	49	TYR	Sidechain
9	AI	59	TYR	Sidechain
9	AI	79	ARG	Sidechain
9	AI	80	PHE	Sidechain
9	AI	86	ARG	Sidechain
9	AI	91	ARG	Sidechain
10	AJ	101	ARG	Sidechain
10	AJ	141	HIS	Sidechain
10	AJ	142	ARG	Sidechain
10	AJ	153	TYR	Sidechain
10	AJ	154	ARG	Sidechain
10	AJ	163	HIS	Sidechain
11	AK	127	TYR	Sidechain
11	AK	14	ARG	Sidechain
11	AK	79	ARG	Peptide
12	AL	108	ARG	Sidechain
12	AL	123	ARG	Sidechain
12	AL	126	PHE	Sidechain
12	AL	89	TYR	Sidechain
12	AL	94	ARG	Sidechain
13	AM	53	ILE	Mainchain
13	AM	65	TYR	Sidechain
13	AM	89	ARG	Sidechain
13	AM	9	ARG	Sidechain
14	AN	10	ARG	Sidechain

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Mol	Chain	Res	Type	Group
14	AN	12	ARG	Sidechain
14	AN	37	GLN	Peptide
14	AN	52	ARG	Sidechain
14	AN	68	ARG	Sidechain
15	AO	11	ARG	Sidechain
15	AO	37	TYR	Sidechain
16	AP	13	HIS	Sidechain
16	AP	56	ARG	Sidechain
16	AP	69	ARG	Sidechain
17	AQ	99	SER	Mainchain
19	AS	17	TYR	Sidechain
19	AS	28	ARG	Sidechain
19	AS	33	ILE	Mainchain
20	AT	39	ARG	Sidechain
21	AU	10	CYS	Peptide
21	AU	11	ARG	Sidechain
21	AU	3	TYR	Sidechain
21	AU	4	PHE	Sidechain
21	AU	62	ARG	Sidechain
21	AU	7	ARG	Sidechain
23	AW	23	ARG	Sidechain
23	AW	28	ARG	Sidechain
24	AX	17	ARG	Sidechain
51	B0	21	LEU	Mainchain
51	B0	46	VAL	Mainchain
52	B1	30	ARG	Sidechain
52	B1	52	PHE	Sidechain
53	B2	63	ARG	Sidechain
55	B4	20	TYR	Sidechain
55	B4	38	PHE	Sidechain
55	B4	48	TYR	Sidechain
56	B5	28	ARG	Sidechain
57	B6	13	PHE	Sidechain
57	B6	21	PHE	Sidechain
57	B6	63	TYR	Sidechain
58	B7	19	ARG	Sidechain
25	BA	10	G	Sidechain
25	BA	100	G	Sidechain
25	BA	104	A	Sidechain
25	BA	105	G	Sidechain
25	BA	106	G	Sidechain
25	BA	108	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	109	A	Sidechain
25	BA	11	C	Sidechain
25	BA	110	C	Sidechain
25	BA	114	C	Sidechain
25	BA	117	G	Sidechain
25	BA	119	A	Sidechain
25	BA	12	C	Sidechain
25	BA	120	U	Sidechain
25	BA	13	G	Sidechain
25	BA	14	U	Sidechain
25	BA	15	A	Sidechain
25	BA	18	G	Sidechain
25	BA	19	C	Sidechain
25	BA	2	G	Sidechain
25	BA	20	G	Sidechain
25	BA	24	G	Sidechain
25	BA	25	U	Sidechain
25	BA	26	C	Sidechain
25	BA	27	C	Sidechain
25	BA	30	C	Sidechain
25	BA	32	U	Sidechain
25	BA	33	G	Sidechain
25	BA	34	A	Sidechain
25	BA	35	C	Sidechain
25	BA	37	C	Sidechain
25	BA	39	A	Sidechain
25	BA	41	G	Sidechain
25	BA	42	C	Sidechain
25	BA	44	G	Sidechain
25	BA	45	A	Sidechain
25	BA	47	C	Sidechain
25	BA	48	U	Sidechain
25	BA	5	U	Sidechain
25	BA	50	A	Sidechain
25	BA	52	A	Sidechain
25	BA	53	A	Sidechain
25	BA	54	G	Sidechain
25	BA	55	U	Sidechain
25	BA	6	G	Sidechain
25	BA	60	C	Sidechain
25	BA	61	G	Sidechain
25	BA	64	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	66	A	Sidechain
25	BA	67	G	Sidechain
25	BA	69	G	Sidechain
25	BA	72	G	Sidechain
25	BA	73	A	Sidechain
25	BA	74	U	Sidechain
25	BA	76	G	Sidechain
25	BA	78	A	Sidechain
25	BA	8	C	Sidechain
25	BA	81	G	Sidechain
25	BA	82	U	Sidechain
25	BA	83	G	Sidechain
25	BA	84	G	Sidechain
25	BA	85	G	Sidechain
25	BA	86	G	Sidechain
25	BA	87	U	Sidechain
25	BA	88	C	Sidechain
25	BA	89	U	Sidechain
25	BA	91	C	Sidechain
25	BA	95	U	Sidechain
25	BA	96	G	Sidechain
25	BA	97	C	Sidechain
25	BA	98	G	Sidechain
26	BB	1	G	Sidechain
26	BB	100	U	Sidechain
26	BB	1000	A	Sidechain
26	BB	1001	A	Sidechain
26	BB	1002	G	Sidechain
26	BB	1004	U	Sidechain
26	BB	1005	C	Sidechain
26	BB	1007	C	Sidechain
26	BB	1008	A	Sidechain
26	BB	1010	A	Sidechain
26	BB	1011	G	Sidechain
26	BB	1012	U	Sidechain
26	BB	1013	C	Sidechain
26	BB	1014	A	Sidechain
26	BB	1015	U	Sidechain
26	BB	1016	G	Sidechain
26	BB	1019	U	Sidechain
26	BB	1020	A	Sidechain
26	BB	1021	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1022	G	Sidechain
26	BB	1023	U	Sidechain
26	BB	1024	G	Sidechain
26	BB	1025	G	Sidechain
26	BB	1027	A	Sidechain
26	BB	1028	A	Sidechain
26	BB	1031	G	Sidechain
26	BB	1037	G	Sidechain
26	BB	1038	G	Sidechain
26	BB	1039	A	Sidechain
26	BB	1040	A	Sidechain
26	BB	1041	G	Sidechain
26	BB	1043	C	Sidechain
26	BB	1045	C	Sidechain
26	BB	1047	G	Sidechain
26	BB	1050	A	Sidechain
26	BB	1053	C	Sidechain
26	BB	1055	G	Sidechain
26	BB	1056	G	Sidechain
26	BB	1057	A	Sidechain
26	BB	1058	U	Sidechain
26	BB	1059	G	Sidechain
26	BB	106	C	Sidechain
26	BB	1060	U	Sidechain
26	BB	1061	U	Sidechain
26	BB	1062	G	Sidechain
26	BB	1063	G	Sidechain
26	BB	1065	U	Sidechain
26	BB	1066	U	Sidechain
26	BB	1068	G	Sidechain
26	BB	107	G	Sidechain
26	BB	1072	C	Sidechain
26	BB	1073	A	Sidechain
26	BB	1078	U	Sidechain
26	BB	1079	C	Sidechain
26	BB	1080	A	Sidechain
26	BB	1081	U	Sidechain
26	BB	1083	U	Sidechain
26	BB	1084	A	Sidechain
26	BB	1087	G	Sidechain
26	BB	1089	A	Sidechain
26	BB	109	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1090	A	Sidechain
26	BB	1092	C	Sidechain
26	BB	1093	G	Sidechain
26	BB	1094	U	Sidechain
26	BB	1096	A	Sidechain
26	BB	1097	U	Sidechain
26	BB	1099	G	Sidechain
26	BB	11	C	Sidechain
26	BB	110	G	Sidechain
26	BB	1100	C	Sidechain
26	BB	1106	G	Sidechain
26	BB	1107	G	Sidechain
26	BB	1109	C	Sidechain
26	BB	1110	G	Sidechain
26	BB	1111	A	Sidechain
26	BB	1112	G	Sidechain
26	BB	1113	U	Sidechain
26	BB	1115	G	Sidechain
26	BB	1116	G	Sidechain
26	BB	1119	U	Sidechain
26	BB	1121	C	Sidechain
26	BB	1122	G	Sidechain
26	BB	1125	G	Sidechain
26	BB	1126	A	Sidechain
26	BB	1127	A	Sidechain
26	BB	113	U	Sidechain
26	BB	1131	G	Sidechain
26	BB	1132	U	Sidechain
26	BB	1134	A	Sidechain
26	BB	1136	G	Sidechain
26	BB	1137	G	Sidechain
26	BB	1138	G	Sidechain
26	BB	1139	G	Sidechain
26	BB	114	U	Sidechain
26	BB	1141	U	Sidechain
26	BB	1142	A	Sidechain
26	BB	1143	A	Sidechain
26	BB	1149	G	Sidechain
26	BB	115	C	Sidechain
26	BB	1152	C	Sidechain
26	BB	1155	A	Sidechain
26	BB	1156	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1157	G	Sidechain
26	BB	1162	G	Sidechain
26	BB	1165	A	Sidechain
26	BB	1167	C	Sidechain
26	BB	1168	G	Sidechain
26	BB	1169	A	Sidechain
26	BB	1170	C	Sidechain
26	BB	1171	G	Sidechain
26	BB	1173	U	Sidechain
26	BB	1175	A	Sidechain
26	BB	1176	U	Sidechain
26	BB	1177	G	Sidechain
26	BB	1178	C	Sidechain
26	BB	1179	G	Sidechain
26	BB	118	A	Sidechain
26	BB	1181	U	Sidechain
26	BB	1182	G	Sidechain
26	BB	1183	U	Sidechain
26	BB	1185	G	Sidechain
26	BB	1186	G	Sidechain
26	BB	1187	G	Sidechain
26	BB	1190	G	Sidechain
26	BB	1192	G	Sidechain
26	BB	1193	G	Sidechain
26	BB	1194	A	Sidechain
26	BB	1195	G	Sidechain
26	BB	1197	G	Sidechain
26	BB	1198	U	Sidechain
26	BB	12	U	Sidechain
26	BB	120	U	Sidechain
26	BB	1200	C	Sidechain
26	BB	1201	U	Sidechain
26	BB	1202	G	Sidechain
26	BB	1203	U	Sidechain
26	BB	1205	A	Sidechain
26	BB	1206	G	Sidechain
26	BB	1208	C	Sidechain
26	BB	1209	U	Sidechain
26	BB	1210	G	Sidechain
26	BB	1211	C	Sidechain
26	BB	1212	G	Sidechain
26	BB	1213	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1214	A	Sidechain
26	BB	1215	G	Sidechain
26	BB	1218	G	Sidechain
26	BB	1220	G	Sidechain
26	BB	1221	C	Sidechain
26	BB	1222	U	Sidechain
26	BB	1223	G	Sidechain
26	BB	1226	A	Sidechain
26	BB	1227	G	Sidechain
26	BB	1228	G	Sidechain
26	BB	1229	C	Sidechain
26	BB	123	G	Sidechain
26	BB	1230	A	Sidechain
26	BB	1231	U	Sidechain
26	BB	1235	G	Sidechain
26	BB	1236	G	Sidechain
26	BB	1238	G	Sidechain
26	BB	124	G	Sidechain
26	BB	1242	U	Sidechain
26	BB	1243	C	Sidechain
26	BB	1244	A	Sidechain
26	BB	1245	G	Sidechain
26	BB	1246	A	Sidechain
26	BB	1248	G	Sidechain
26	BB	1249	U	Sidechain
26	BB	125	A	Sidechain
26	BB	1250	G	Sidechain
26	BB	1252	G	Sidechain
26	BB	1253	A	Sidechain
26	BB	1254	A	Sidechain
26	BB	1255	U	Sidechain
26	BB	1256	G	Sidechain
26	BB	1258	U	Sidechain
26	BB	1259	G	Sidechain
26	BB	126	A	Sidechain
26	BB	1261	C	Sidechain
26	BB	1262	A	Sidechain
26	BB	1263	U	Sidechain
26	BB	1264	A	Sidechain
26	BB	1265	A	Sidechain
26	BB	1266	G	Sidechain
26	BB	1267	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1268	A	Sidechain
26	BB	127	A	Sidechain
26	BB	1271	G	Sidechain
26	BB	1273	U	Sidechain
26	BB	1275	A	Sidechain
26	BB	1276	A	Sidechain
26	BB	1277	G	Sidechain
26	BB	1279	G	Sidechain
26	BB	1280	G	Sidechain
26	BB	1281	G	Sidechain
26	BB	1282	U	Sidechain
26	BB	1283	G	Sidechain
26	BB	1284	A	Sidechain
26	BB	1287	A	Sidechain
26	BB	1288	G	Sidechain
26	BB	129	C	Sidechain
26	BB	1290	C	Sidechain
26	BB	1292	G	Sidechain
26	BB	1293	C	Sidechain
26	BB	1294	U	Sidechain
26	BB	1295	C	Sidechain
26	BB	1296	G	Sidechain
26	BB	1297	C	Sidechain
26	BB	1298	C	Sidechain
26	BB	1299	G	Sidechain
26	BB	1300	G	Sidechain
26	BB	1301	A	Sidechain
26	BB	1302	A	Sidechain
26	BB	1305	C	Sidechain
26	BB	1306	C	Sidechain
26	BB	1307	A	Sidechain
26	BB	1309	G	Sidechain
26	BB	1311	G	Sidechain
26	BB	1313	U	Sidechain
26	BB	1316	U	Sidechain
26	BB	1317	G	Sidechain
26	BB	1319	C	Sidechain
26	BB	132	G	Sidechain
26	BB	1321	A	Sidechain
26	BB	1325	U	Sidechain
26	BB	1326	U	Sidechain
26	BB	1327	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	133	U	Sidechain
26	BB	1332	G	Sidechain
26	BB	1334	G	Sidechain
26	BB	1336	A	Sidechain
26	BB	1338	G	Sidechain
26	BB	1339	G	Sidechain
26	BB	1340	U	Sidechain
26	BB	1341	G	Sidechain
26	BB	1343	G	Sidechain
26	BB	1345	C	Sidechain
26	BB	1349	C	Sidechain
26	BB	135	U	Sidechain
26	BB	1350	C	Sidechain
26	BB	1353	A	Sidechain
26	BB	1354	A	Sidechain
26	BB	1355	G	Sidechain
26	BB	1356	G	Sidechain
26	BB	1359	A	Sidechain
26	BB	136	G	Sidechain
26	BB	1360	G	Sidechain
26	BB	1361	G	Sidechain
26	BB	1362	C	Sidechain
26	BB	1365	A	Sidechain
26	BB	1366	A	Sidechain
26	BB	1367	A	Sidechain
26	BB	1368	G	Sidechain
26	BB	1369	G	Sidechain
26	BB	137	U	Sidechain
26	BB	1370	C	Sidechain
26	BB	1371	G	Sidechain
26	BB	1374	G	Sidechain
26	BB	1375	U	Sidechain
26	BB	1376	C	Sidechain
26	BB	1377	G	Sidechain
26	BB	1380	G	Sidechain
26	BB	1381	G	Sidechain
26	BB	1382	G	Sidechain
26	BB	1383	A	Sidechain
26	BB	1385	A	Sidechain
26	BB	1386	C	Sidechain
26	BB	1388	G	Sidechain
26	BB	1389	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1390	U	Sidechain
26	BB	1392	A	Sidechain
26	BB	1393	A	Sidechain
26	BB	1394	U	Sidechain
26	BB	1395	A	Sidechain
26	BB	1396	U	Sidechain
26	BB	1397	U	Sidechain
26	BB	1398	C	Sidechain
26	BB	14	A	Sidechain
26	BB	1401	G	Sidechain
26	BB	1402	U	Sidechain
26	BB	1404	C	Sidechain
26	BB	1405	U	Sidechain
26	BB	1406	U	Sidechain
26	BB	1407	G	Sidechain
26	BB	1408	G	Sidechain
26	BB	1409	U	Sidechain
26	BB	141	G	Sidechain
26	BB	1410	G	Sidechain
26	BB	1411	U	Sidechain
26	BB	1412	U	Sidechain
26	BB	1413	A	Sidechain
26	BB	1414	C	Sidechain
26	BB	1416	G	Sidechain
26	BB	1417	C	Sidechain
26	BB	1418	G	Sidechain
26	BB	1419	A	Sidechain
26	BB	1420	A	Sidechain
26	BB	1423	G	Sidechain
26	BB	1424	G	Sidechain
26	BB	1426	G	Sidechain
26	BB	1427	A	Sidechain
26	BB	1428	C	Sidechain
26	BB	1429	G	Sidechain
26	BB	143	C	Sidechain
26	BB	1430	G	Sidechain
26	BB	1432	G	Sidechain
26	BB	1433	A	Sidechain
26	BB	1434	A	Sidechain
26	BB	1435	G	Sidechain
26	BB	1436	G	Sidechain
26	BB	1438	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1439	A	Sidechain
26	BB	144	A	Sidechain
26	BB	1440	U	Sidechain
26	BB	1443	U	Sidechain
26	BB	1444	G	Sidechain
26	BB	1448	G	Sidechain
26	BB	1452	G	Sidechain
26	BB	1453	A	Sidechain
26	BB	1454	C	Sidechain
26	BB	1457	U	Sidechain
26	BB	1459	G	Sidechain
26	BB	1460	U	Sidechain
26	BB	1461	C	Sidechain
26	BB	1464	G	Sidechain
26	BB	1466	U	Sidechain
26	BB	1467	U	Sidechain
26	BB	1468	U	Sidechain
26	BB	1470	A	Sidechain
26	BB	1471	G	Sidechain
26	BB	1473	G	Sidechain
26	BB	1474	U	Sidechain
26	BB	1477	A	Sidechain
26	BB	1478	G	Sidechain
26	BB	148	U	Sidechain
26	BB	1480	C	Sidechain
26	BB	1482	G	Sidechain
26	BB	1483	G	Sidechain
26	BB	1484	U	Sidechain
26	BB	1485	U	Sidechain
26	BB	1487	U	Sidechain
26	BB	1488	C	Sidechain
26	BB	1491	G	Sidechain
26	BB	1492	G	Sidechain
26	BB	1493	C	Sidechain
26	BB	1494	A	Sidechain
26	BB	1495	A	Sidechain
26	BB	1498	C	Sidechain
26	BB	150	U	Sidechain
26	BB	1507	C	Sidechain
26	BB	1510	G	Sidechain
26	BB	1511	G	Sidechain
26	BB	1513	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1514	G	Sidechain
26	BB	1518	C	Sidechain
26	BB	1522	A	Sidechain
26	BB	1523	U	Sidechain
26	BB	1524	G	Sidechain
26	BB	1528	A	Sidechain
26	BB	1529	G	Sidechain
26	BB	1533	C	Sidechain
26	BB	1535	A	Sidechain
26	BB	1536	C	Sidechain
26	BB	1538	G	Sidechain
26	BB	1539	U	Sidechain
26	BB	154	U	Sidechain
26	BB	1540	G	Sidechain
26	BB	1542	U	Sidechain
26	BB	1544	A	Sidechain
26	BB	1546	G	Sidechain
26	BB	1548	A	Sidechain
26	BB	155	A	Sidechain
26	BB	1551	A	Sidechain
26	BB	1552	A	Sidechain
26	BB	1553	A	Sidechain
26	BB	1556	C	Sidechain
26	BB	1559	U	Sidechain
26	BB	1560	G	Sidechain
26	BB	1563	U	Sidechain
26	BB	1565	C	Sidechain
26	BB	1566	A	Sidechain
26	BB	1567	G	Sidechain
26	BB	1569	A	Sidechain
26	BB	157	C	Sidechain
26	BB	1572	A	Sidechain
26	BB	1574	C	Sidechain
26	BB	1577	C	Sidechain
26	BB	158	U	Sidechain
26	BB	1580	A	Sidechain
26	BB	1581	G	Sidechain
26	BB	1583	A	Sidechain
26	BB	1584	U	Sidechain
26	BB	1587	G	Sidechain
26	BB	1588	G	Sidechain
26	BB	1589	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1590	A	Sidechain
26	BB	1591	A	Sidechain
26	BB	1594	U	Sidechain
26	BB	1598	A	Sidechain
26	BB	1599	U	Sidechain
26	BB	16	C	Sidechain
26	BB	160	A	Sidechain
26	BB	1601	G	Sidechain
26	BB	1603	A	Sidechain
26	BB	1604	C	Sidechain
26	BB	1605	C	Sidechain
26	BB	1607	C	Sidechain
26	BB	1608	A	Sidechain
26	BB	1612	C	Sidechain
26	BB	1617	C	Sidechain
26	BB	1619	G	Sidechain
26	BB	162	U	Sidechain
26	BB	1620	G	Sidechain
26	BB	1622	G	Sidechain
26	BB	1623	G	Sidechain
26	BB	1624	U	Sidechain
26	BB	1626	A	Sidechain
26	BB	1627	G	Sidechain
26	BB	1628	G	Sidechain
26	BB	1631	G	Sidechain
26	BB	1633	G	Sidechain
26	BB	1634	A	Sidechain
26	BB	1635	A	Sidechain
26	BB	1636	U	Sidechain
26	BB	1637	A	Sidechain
26	BB	1638	C	Sidechain
26	BB	1639	C	Sidechain
26	BB	1640	A	Sidechain
26	BB	1641	A	Sidechain
26	BB	1645	G	Sidechain
26	BB	1646	C	Sidechain
26	BB	1648	U	Sidechain
26	BB	165	A	Sidechain
26	BB	1651	G	Sidechain
26	BB	1652	A	Sidechain
26	BB	1654	A	Sidechain
26	BB	1655	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1656	C	Sidechain
26	BB	1658	C	Sidechain
26	BB	1659	G	Sidechain
26	BB	166	U	Sidechain
26	BB	1660	G	Sidechain
26	BB	1661	G	Sidechain
26	BB	1662	U	Sidechain
26	BB	1663	G	Sidechain
26	BB	1664	A	Sidechain
26	BB	1665	A	Sidechain
26	BB	1666	G	Sidechain
26	BB	1667	G	Sidechain
26	BB	1668	A	Sidechain
26	BB	1669	A	Sidechain
26	BB	1671	U	Sidechain
26	BB	1672	A	Sidechain
26	BB	1678	A	Sidechain
26	BB	1680	U	Sidechain
26	BB	1681	G	Sidechain
26	BB	1682	G	Sidechain
26	BB	1687	G	Sidechain
26	BB	1691	C	Sidechain
26	BB	1693	U	Sidechain
26	BB	1694	C	Sidechain
26	BB	1695	G	Sidechain
26	BB	1696	G	Sidechain
26	BB	170	U	Sidechain
26	BB	1700	A	Sidechain
26	BB	1703	G	Sidechain
26	BB	1706	C	Sidechain
26	BB	1708	C	Sidechain
26	BB	1709	U	Sidechain
26	BB	171	U	Sidechain
26	BB	1713	A	Sidechain
26	BB	1715	G	Sidechain
26	BB	172	A	Sidechain
26	BB	1720	U	Sidechain
26	BB	1721	G	Sidechain
26	BB	1724	G	Sidechain
26	BB	1725	U	Sidechain
26	BB	1727	C	Sidechain
26	BB	1728	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1729	U	Sidechain
26	BB	1735	A	Sidechain
26	BB	1736	U	Sidechain
26	BB	1737	G	Sidechain
26	BB	1738	G	Sidechain
26	BB	1739	A	Sidechain
26	BB	174	U	Sidechain
26	BB	1740	G	Sidechain
26	BB	1745	A	Sidechain
26	BB	1746	A	Sidechain
26	BB	1747	U	Sidechain
26	BB	1748	C	Sidechain
26	BB	175	G	Sidechain
26	BB	1750	G	Sidechain
26	BB	1751	U	Sidechain
26	BB	1752	C	Sidechain
26	BB	1753	G	Sidechain
26	BB	1754	A	Sidechain
26	BB	1755	A	Sidechain
26	BB	1756	G	Sidechain
26	BB	1758	U	Sidechain
26	BB	1759	A	Sidechain
26	BB	176	A	Sidechain
26	BB	1761	C	Sidechain
26	BB	1764	C	Sidechain
26	BB	1765	U	Sidechain
26	BB	1766	G	Sidechain
26	BB	1768	C	Sidechain
26	BB	1769	U	Sidechain
26	BB	177	G	Sidechain
26	BB	1770	G	Sidechain
26	BB	1772	A	Sidechain
26	BB	1773	A	Sidechain
26	BB	1775	U	Sidechain
26	BB	1777	U	Sidechain
26	BB	1778	U	Sidechain
26	BB	178	G	Sidechain
26	BB	1780	A	Sidechain
26	BB	1782	U	Sidechain
26	BB	1784	A	Sidechain
26	BB	1789	A	Sidechain
26	BB	179	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1792	G	Sidechain
26	BB	1795	C	Sidechain
26	BB	1796	U	Sidechain
26	BB	1797	G	Sidechain
26	BB	18	U	Sidechain
26	BB	180	G	Sidechain
26	BB	1800	C	Sidechain
26	BB	1801	A	Sidechain
26	BB	1802	A	Sidechain
26	BB	1803	A	Sidechain
26	BB	1805	A	Sidechain
26	BB	1808	A	Sidechain
26	BB	1810	A	Sidechain
26	BB	1811	G	Sidechain
26	BB	1812	U	Sidechain
26	BB	1813	G	Sidechain
26	BB	1814	G	Sidechain
26	BB	1815	A	Sidechain
26	BB	1817	G	Sidechain
26	BB	182	A	Sidechain
26	BB	1820	U	Sidechain
26	BB	1822	C	Sidechain
26	BB	1823	G	Sidechain
26	BB	1824	G	Sidechain
26	BB	1826	G	Sidechain
26	BB	1828	G	Sidechain
26	BB	1829	A	Sidechain
26	BB	183	C	Sidechain
26	BB	1831	G	Sidechain
26	BB	1832	C	Sidechain
26	BB	1833	C	Sidechain
26	BB	1836	C	Sidechain
26	BB	1837	C	Sidechain
26	BB	1838	C	Sidechain
26	BB	184	C	Sidechain
26	BB	1840	G	Sidechain
26	BB	1841	U	Sidechain
26	BB	1842	G	Sidechain
26	BB	1845	G	Sidechain
26	BB	1846	G	Sidechain
26	BB	1849	G	Sidechain
26	BB	185	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1850	G	Sidechain
26	BB	1851	U	Sidechain
26	BB	1853	A	Sidechain
26	BB	1855	U	Sidechain
26	BB	1857	G	Sidechain
26	BB	1859	U	Sidechain
26	BB	186	G	Sidechain
26	BB	1863	G	Sidechain
26	BB	1865	U	Sidechain
26	BB	1867	G	Sidechain
26	BB	1868	C	Sidechain
26	BB	1869	G	Sidechain
26	BB	1871	A	Sidechain
26	BB	1872	A	Sidechain
26	BB	1875	G	Sidechain
26	BB	188	G	Sidechain
26	BB	1884	G	Sidechain
26	BB	1885	A	Sidechain
26	BB	1886	U	Sidechain
26	BB	1888	G	Sidechain
26	BB	1889	A	Sidechain
26	BB	189	G	Sidechain
26	BB	1890	A	Sidechain
26	BB	1891	G	Sidechain
26	BB	1894	C	Sidechain
26	BB	1895	C	Sidechain
26	BB	1897	G	Sidechain
26	BB	1898	U	Sidechain
26	BB	1899	A	Sidechain
26	BB	190	A	Sidechain
26	BB	1901	A	Sidechain
26	BB	1902	C	Sidechain
26	BB	1904	G	Sidechain
26	BB	1907	G	Sidechain
26	BB	1908	C	Sidechain
26	BB	1909	C	Sidechain
26	BB	1910	G	Sidechain
26	BB	1912	A	Sidechain
26	BB	1913	A	Sidechain
26	BB	1914	C	Sidechain
26	BB	1918	A	Sidechain
26	BB	1919	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1920	C	Sidechain
26	BB	1921	G	Sidechain
26	BB	1923	U	Sidechain
26	BB	1924	C	Sidechain
26	BB	1929	G	Sidechain
26	BB	193	U	Sidechain
26	BB	1930	G	Sidechain
26	BB	1931	U	Sidechain
26	BB	1932	A	Sidechain
26	BB	1934	C	Sidechain
26	BB	1935	G	Sidechain
26	BB	1936	A	Sidechain
26	BB	1938	A	Sidechain
26	BB	194	G	Sidechain
26	BB	1944	U	Sidechain
26	BB	1948	G	Sidechain
26	BB	1949	G	Sidechain
26	BB	195	A	Sidechain
26	BB	1952	A	Sidechain
26	BB	1954	G	Sidechain
26	BB	1955	U	Sidechain
26	BB	1959	G	Sidechain
26	BB	196	A	Sidechain
26	BB	1960	A	Sidechain
26	BB	1963	U	Sidechain
26	BB	1964	G	Sidechain
26	BB	1968	G	Sidechain
26	BB	1969	A	Sidechain
26	BB	1970	A	Sidechain
26	BB	1971	U	Sidechain
26	BB	1975	G	Sidechain
26	BB	1976	U	Sidechain
26	BB	1980	G	Sidechain
26	BB	1983	G	Sidechain
26	BB	1984	G	Sidechain
26	BB	1987	A	Sidechain
26	BB	1988	G	Sidechain
26	BB	1989	G	Sidechain
26	BB	199	A	Sidechain
26	BB	1990	C	Sidechain
26	BB	1991	U	Sidechain
26	BB	1992	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1994	C	Sidechain
26	BB	1995	U	Sidechain
26	BB	1997	C	Sidechain
26	BB	1999	C	Sidechain
26	BB	2	G	Sidechain
26	BB	20	C	Sidechain
26	BB	200	U	Sidechain
26	BB	2000	C	Sidechain
26	BB	2002	G	Sidechain
26	BB	2005	A	Sidechain
26	BB	2008	C	Sidechain
26	BB	201	C	Sidechain
26	BB	2010	G	Sidechain
26	BB	2016	U	Sidechain
26	BB	202	U	Sidechain
26	BB	2021	C	Sidechain
26	BB	2022	U	Sidechain
26	BB	2023	C	Sidechain
26	BB	2024	G	Sidechain
26	BB	2026	U	Sidechain
26	BB	2027	G	Sidechain
26	BB	2029	G	Sidechain
26	BB	2031	A	Sidechain
26	BB	2034	U	Sidechain
26	BB	2036	C	Sidechain
26	BB	2037	A	Sidechain
26	BB	204	A	Sidechain
26	BB	2040	G	Sidechain
26	BB	2042	A	Sidechain
26	BB	2043	C	Sidechain
26	BB	2044	C	Sidechain
26	BB	2048	G	Sidechain
26	BB	2049	G	Sidechain
26	BB	205	G	Sidechain
26	BB	2055	C	Sidechain
26	BB	2056	G	Sidechain
26	BB	2057	G	Sidechain
26	BB	2059	A	Sidechain
26	BB	206	U	Sidechain
26	BB	2060	A	Sidechain
26	BB	2061	G	Sidechain
26	BB	2064	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2065	C	Sidechain
26	BB	2066	C	Sidechain
26	BB	2068	U	Sidechain
26	BB	207	A	Sidechain
26	BB	2070	A	Sidechain
26	BB	2071	A	Sidechain
26	BB	2072	C	Sidechain
26	BB	2073	C	Sidechain
26	BB	2074	U	Sidechain
26	BB	2076	U	Sidechain
26	BB	208	C	Sidechain
26	BB	2086	U	Sidechain
26	BB	2087	G	Sidechain
26	BB	2090	A	Sidechain
26	BB	2091	C	Sidechain
26	BB	2092	U	Sidechain
26	BB	2093	G	Sidechain
26	BB	2094	A	Sidechain
26	BB	2098	U	Sidechain
26	BB	2099	U	Sidechain
26	BB	21	A	Sidechain
26	BB	210	C	Sidechain
26	BB	2102	G	Sidechain
26	BB	2103	C	Sidechain
26	BB	2105	U	Sidechain
26	BB	2106	U	Sidechain
26	BB	2107	G	Sidechain
26	BB	2108	A	Sidechain
26	BB	211	C	Sidechain
26	BB	2111	U	Sidechain
26	BB	2112	G	Sidechain
26	BB	2113	U	Sidechain
26	BB	2114	A	Sidechain
26	BB	2115	G	Sidechain
26	BB	2117	A	Sidechain
26	BB	2118	U	Sidechain
26	BB	212	G	Sidechain
26	BB	2120	G	Sidechain
26	BB	2121	G	Sidechain
26	BB	2122	U	Sidechain
26	BB	2124	G	Sidechain
26	BB	2125	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2126	A	Sidechain
26	BB	2128	G	Sidechain
26	BB	2129	C	Sidechain
26	BB	2130	U	Sidechain
26	BB	2131	U	Sidechain
26	BB	2132	U	Sidechain
26	BB	2133	G	Sidechain
26	BB	2134	A	Sidechain
26	BB	2136	G	Sidechain
26	BB	2138	G	Sidechain
26	BB	214	G	Sidechain
26	BB	2143	C	Sidechain
26	BB	2144	G	Sidechain
26	BB	2146	C	Sidechain
26	BB	2147	A	Sidechain
26	BB	2150	C	Sidechain
26	BB	2151	U	Sidechain
26	BB	2152	G	Sidechain
26	BB	2153	C	Sidechain
26	BB	2156	G	Sidechain
26	BB	2157	G	Sidechain
26	BB	2160	C	Sidechain
26	BB	2163	A	Sidechain
26	BB	2166	U	Sidechain
26	BB	2167	U	Sidechain
26	BB	2168	G	Sidechain
26	BB	2169	A	Sidechain
26	BB	2174	C	Sidechain
26	BB	2181	U	Sidechain
26	BB	2183	A	Sidechain
26	BB	2184	A	Sidechain
26	BB	2186	G	Sidechain
26	BB	2188	U	Sidechain
26	BB	219	A	Sidechain
26	BB	2190	G	Sidechain
26	BB	2191	A	Sidechain
26	BB	2193	G	Sidechain
26	BB	2196	C	Sidechain
26	BB	2197	U	Sidechain
26	BB	2198	A	Sidechain
26	BB	2200	C	Sidechain
26	BB	2204	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2209	G	Sidechain
26	BB	221	A	Sidechain
26	BB	2210	U	Sidechain
26	BB	2213	U	Sidechain
26	BB	2214	C	Sidechain
26	BB	2216	G	Sidechain
26	BB	2217	G	Sidechain
26	BB	2218	G	Sidechain
26	BB	2221	G	Sidechain
26	BB	2224	G	Sidechain
26	BB	2228	G	Sidechain
26	BB	2229	U	Sidechain
26	BB	2233	U	Sidechain
26	BB	2234	G	Sidechain
26	BB	2237	G	Sidechain
26	BB	2239	G	Sidechain
26	BB	2242	G	Sidechain
26	BB	2243	U	Sidechain
26	BB	2244	U	Sidechain
26	BB	2246	G	Sidechain
26	BB	2248	C	Sidechain
26	BB	225	C	Sidechain
26	BB	2250	G	Sidechain
26	BB	2252	G	Sidechain
26	BB	2253	G	Sidechain
26	BB	2255	G	Sidechain
26	BB	2257	U	Sidechain
26	BB	2258	C	Sidechain
26	BB	2259	U	Sidechain
26	BB	226	A	Sidechain
26	BB	2264	C	Sidechain
26	BB	2267	A	Sidechain
26	BB	2268	A	Sidechain
26	BB	2269	G	Sidechain
26	BB	227	A	Sidechain
26	BB	2270	A	Sidechain
26	BB	2273	A	Sidechain
26	BB	2277	G	Sidechain
26	BB	2279	G	Sidechain
26	BB	2281	A	Sidechain
26	BB	2282	G	Sidechain
26	BB	2283	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2284	A	Sidechain
26	BB	2285	C	Sidechain
26	BB	2289	G	Sidechain
26	BB	229	C	Sidechain
26	BB	2290	G	Sidechain
26	BB	2291	U	Sidechain
26	BB	2293	G	Sidechain
26	BB	2296	U	Sidechain
26	BB	2297	A	Sidechain
26	BB	2298	A	Sidechain
26	BB	2299	U	Sidechain
26	BB	230	G	Sidechain
26	BB	2300	C	Sidechain
26	BB	2303	G	Sidechain
26	BB	2304	G	Sidechain
26	BB	2305	U	Sidechain
26	BB	2306	C	Sidechain
26	BB	2308	G	Sidechain
26	BB	2309	A	Sidechain
26	BB	2311	A	Sidechain
26	BB	2312	U	Sidechain
26	BB	2313	C	Sidechain
26	BB	2315	G	Sidechain
26	BB	2316	G	Sidechain
26	BB	2318	G	Sidechain
26	BB	232	G	Sidechain
26	BB	2320	U	Sidechain
26	BB	2321	U	Sidechain
26	BB	2323	G	Sidechain
26	BB	2325	G	Sidechain
26	BB	2326	C	Sidechain
26	BB	2327	A	Sidechain
26	BB	2328	A	Sidechain
26	BB	2329	U	Sidechain
26	BB	2330	G	Sidechain
26	BB	2332	C	Sidechain
26	BB	2333	A	Sidechain
26	BB	2334	U	Sidechain
26	BB	2336	A	Sidechain
26	BB	2339	C	Sidechain
26	BB	234	U	Sidechain
26	BB	2340	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2341	G	Sidechain
26	BB	2344	U	Sidechain
26	BB	2345	G	Sidechain
26	BB	2348	U	Sidechain
26	BB	2349	G	Sidechain
26	BB	2350	C	Sidechain
26	BB	2353	G	Sidechain
26	BB	2355	G	Sidechain
26	BB	2358	A	Sidechain
26	BB	2360	G	Sidechain
26	BB	2361	G	Sidechain
26	BB	2363	G	Sidechain
26	BB	2364	C	Sidechain
26	BB	2365	G	Sidechain
26	BB	2366	A	Sidechain
26	BB	2367	G	Sidechain
26	BB	2368	C	Sidechain
26	BB	237	C	Sidechain
26	BB	2370	G	Sidechain
26	BB	2371	G	Sidechain
26	BB	2373	G	Sidechain
26	BB	2375	G	Sidechain
26	BB	2376	A	Sidechain
26	BB	2377	A	Sidechain
26	BB	2379	G	Sidechain
26	BB	238	C	Sidechain
26	BB	2383	G	Sidechain
26	BB	2385	C	Sidechain
26	BB	2386	A	Sidechain
26	BB	2388	A	Sidechain
26	BB	2390	U	Sidechain
26	BB	2391	G	Sidechain
26	BB	2393	U	Sidechain
26	BB	2396	G	Sidechain
26	BB	240	C	Sidechain
26	BB	2401	U	Sidechain
26	BB	2404	U	Sidechain
26	BB	2405	G	Sidechain
26	BB	2408	U	Sidechain
26	BB	2409	G	Sidechain
26	BB	2410	G	Sidechain
26	BB	2411	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2412	A	Sidechain
26	BB	2413	G	Sidechain
26	BB	2414	G	Sidechain
26	BB	2418	A	Sidechain
26	BB	2419	U	Sidechain
26	BB	242	G	Sidechain
26	BB	2421	G	Sidechain
26	BB	2423	U	Sidechain
26	BB	2425	A	Sidechain
26	BB	2427	C	Sidechain
26	BB	2428	G	Sidechain
26	BB	2429	G	Sidechain
26	BB	2432	A	Sidechain
26	BB	2433	A	Sidechain
26	BB	2435	A	Sidechain
26	BB	2436	G	Sidechain
26	BB	2437	G	Sidechain
26	BB	2438	U	Sidechain
26	BB	2439	A	Sidechain
26	BB	2440	C	Sidechain
26	BB	2443	C	Sidechain
26	BB	2444	G	Sidechain
26	BB	2447	G	Sidechain
26	BB	2448	A	Sidechain
26	BB	245	G	Sidechain
26	BB	2450	A	Sidechain
26	BB	2451	A	Sidechain
26	BB	2456	C	Sidechain
26	BB	2458	G	Sidechain
26	BB	2459	A	Sidechain
26	BB	246	C	Sidechain
26	BB	2462	C	Sidechain
26	BB	2464	G	Sidechain
26	BB	2466	C	Sidechain
26	BB	2468	A	Sidechain
26	BB	2469	A	Sidechain
26	BB	247	G	Sidechain
26	BB	2470	G	Sidechain
26	BB	2471	A	Sidechain
26	BB	2474	U	Sidechain
26	BB	2476	A	Sidechain
26	BB	2478	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2479	U	Sidechain
26	BB	248	G	Sidechain
26	BB	2480	C	Sidechain
26	BB	2485	G	Sidechain
26	BB	2486	C	Sidechain
26	BB	2487	G	Sidechain
26	BB	2488	G	Sidechain
26	BB	2489	U	Sidechain
26	BB	2490	G	Sidechain
26	BB	2491	U	Sidechain
26	BB	2492	U	Sidechain
26	BB	2493	U	Sidechain
26	BB	2495	G	Sidechain
26	BB	2499	C	Sidechain
26	BB	25	U	Sidechain
26	BB	250	G	Sidechain
26	BB	2500	U	Sidechain
26	BB	2502	G	Sidechain
26	BB	2505	G	Sidechain
26	BB	2506	U	Sidechain
26	BB	2508	G	Sidechain
26	BB	2509	G	Sidechain
26	BB	251	A	Sidechain
26	BB	2510	C	Sidechain
26	BB	2512	C	Sidechain
26	BB	2514	U	Sidechain
26	BB	2515	C	Sidechain
26	BB	2517	C	Sidechain
26	BB	2519	U	Sidechain
26	BB	252	G	Sidechain
26	BB	2521	C	Sidechain
26	BB	2525	G	Sidechain
26	BB	2526	G	Sidechain
26	BB	2528	U	Sidechain
26	BB	253	C	Sidechain
26	BB	2530	A	Sidechain
26	BB	2532	G	Sidechain
26	BB	2533	U	Sidechain
26	BB	2535	G	Sidechain
26	BB	2537	U	Sidechain
26	BB	2538	C	Sidechain
26	BB	2539	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	254	G	Sidechain
26	BB	2540	C	Sidechain
26	BB	2543	G	Sidechain
26	BB	2544	G	Sidechain
26	BB	2547	A	Sidechain
26	BB	2548	U	Sidechain
26	BB	2549	G	Sidechain
26	BB	2550	G	Sidechain
26	BB	2553	G	Sidechain
26	BB	2555	U	Sidechain
26	BB	2556	C	Sidechain
26	BB	2559	C	Sidechain
26	BB	2561	U	Sidechain
26	BB	2562	U	Sidechain
26	BB	2563	U	Sidechain
26	BB	2564	A	Sidechain
26	BB	2569	G	Sidechain
26	BB	257	C	Sidechain
26	BB	2570	G	Sidechain
26	BB	2572	A	Sidechain
26	BB	2574	G	Sidechain
26	BB	2576	G	Sidechain
26	BB	2582	G	Sidechain
26	BB	2583	G	Sidechain
26	BB	2584	U	Sidechain
26	BB	2585	U	Sidechain
26	BB	2586	U	Sidechain
26	BB	2588	G	Sidechain
26	BB	259	G	Sidechain
26	BB	2592	G	Sidechain
26	BB	2593	U	Sidechain
26	BB	2596	U	Sidechain
26	BB	2597	G	Sidechain
26	BB	2598	A	Sidechain
26	BB	2599	G	Sidechain
26	BB	260	G	Sidechain
26	BB	2600	A	Sidechain
26	BB	2603	G	Sidechain
26	BB	2606	C	Sidechain
26	BB	2607	G	Sidechain
26	BB	261	G	Sidechain
26	BB	2610	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2611	C	Sidechain
26	BB	2613	U	Sidechain
26	BB	2615	U	Sidechain
26	BB	2616	C	Sidechain
26	BB	2618	G	Sidechain
26	BB	262	A	Sidechain
26	BB	2620	C	Sidechain
26	BB	2621	G	Sidechain
26	BB	2624	G	Sidechain
26	BB	2626	C	Sidechain
26	BB	2628	C	Sidechain
26	BB	263	G	Sidechain
26	BB	2630	G	Sidechain
26	BB	2631	G	Sidechain
26	BB	2633	G	Sidechain
26	BB	2634	A	Sidechain
26	BB	2637	U	Sidechain
26	BB	2638	G	Sidechain
26	BB	2639	A	Sidechain
26	BB	264	C	Sidechain
26	BB	2640	G	Sidechain
26	BB	2641	G	Sidechain
26	BB	2642	G	Sidechain
26	BB	2643	G	Sidechain
26	BB	2644	G	Sidechain
26	BB	2645	G	Sidechain
26	BB	2647	U	Sidechain
26	BB	265	A	Sidechain
26	BB	2655	G	Sidechain
26	BB	2657	A	Sidechain
26	BB	2658	C	Sidechain
26	BB	2659	G	Sidechain
26	BB	266	G	Sidechain
26	BB	2660	A	Sidechain
26	BB	2661	G	Sidechain
26	BB	2662	A	Sidechain
26	BB	2663	G	Sidechain
26	BB	2664	G	Sidechain
26	BB	2665	A	Sidechain
26	BB	2668	G	Sidechain
26	BB	2669	G	Sidechain
26	BB	267	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2671	G	Sidechain
26	BB	2672	U	Sidechain
26	BB	2673	G	Sidechain
26	BB	2674	G	Sidechain
26	BB	2675	A	Sidechain
26	BB	2676	C	Sidechain
26	BB	2681	C	Sidechain
26	BB	2683	C	Sidechain
26	BB	2684	U	Sidechain
26	BB	2685	G	Sidechain
26	BB	2686	G	Sidechain
26	BB	2687	U	Sidechain
26	BB	2688	G	Sidechain
26	BB	2689	U	Sidechain
26	BB	269	C	Sidechain
26	BB	2690	U	Sidechain
26	BB	2691	C	Sidechain
26	BB	2692	G	Sidechain
26	BB	2694	G	Sidechain
26	BB	2696	U	Sidechain
26	BB	2697	G	Sidechain
26	BB	2698	U	Sidechain
26	BB	2699	C	Sidechain
26	BB	27	G	Sidechain
26	BB	270	A	Sidechain
26	BB	2702	G	Sidechain
26	BB	2704	C	Sidechain
26	BB	2706	A	Sidechain
26	BB	2707	U	Sidechain
26	BB	2708	G	Sidechain
26	BB	2709	G	Sidechain
26	BB	271	G	Sidechain
26	BB	2710	C	Sidechain
26	BB	2712	C	Sidechain
26	BB	2713	U	Sidechain
26	BB	2717	C	Sidechain
26	BB	2718	G	Sidechain
26	BB	2719	G	Sidechain
26	BB	272	A	Sidechain
26	BB	2721	A	Sidechain
26	BB	2722	G	Sidechain
26	BB	2723	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2724	U	Sidechain
26	BB	2725	A	Sidechain
26	BB	2726	A	Sidechain
26	BB	2728	U	Sidechain
26	BB	2729	G	Sidechain
26	BB	273	G	Sidechain
26	BB	2730	C	Sidechain
26	BB	2731	G	Sidechain
26	BB	2732	G	Sidechain
26	BB	2733	A	Sidechain
26	BB	2734	A	Sidechain
26	BB	2737	G	Sidechain
26	BB	2740	A	Sidechain
26	BB	2742	G	Sidechain
26	BB	2744	G	Sidechain
26	BB	2745	C	Sidechain
26	BB	2751	G	Sidechain
26	BB	2752	C	Sidechain
26	BB	2753	A	Sidechain
26	BB	2754	U	Sidechain
26	BB	2755	C	Sidechain
26	BB	2756	U	Sidechain
26	BB	2757	A	Sidechain
26	BB	2758	A	Sidechain
26	BB	2759	G	Sidechain
26	BB	2760	C	Sidechain
26	BB	2761	A	Sidechain
26	BB	2762	C	Sidechain
26	BB	2763	G	Sidechain
26	BB	2764	A	Sidechain
26	BB	2767	C	Sidechain
26	BB	2769	U	Sidechain
26	BB	277	G	Sidechain
26	BB	2770	G	Sidechain
26	BB	2771	C	Sidechain
26	BB	2773	C	Sidechain
26	BB	2776	A	Sidechain
26	BB	2777	G	Sidechain
26	BB	2778	A	Sidechain
26	BB	278	A	Sidechain
26	BB	2780	G	Sidechain
26	BB	2781	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2782	G	Sidechain
26	BB	2783	U	Sidechain
26	BB	2784	U	Sidechain
26	BB	2785	C	Sidechain
26	BB	2786	U	Sidechain
26	BB	2787	C	Sidechain
26	BB	2791	G	Sidechain
26	BB	2793	C	Sidechain
26	BB	2794	C	Sidechain
26	BB	2795	C	Sidechain
26	BB	2797	U	Sidechain
26	BB	2798	U	Sidechain
26	BB	2802	G	Sidechain
26	BB	2804	U	Sidechain
26	BB	2806	C	Sidechain
26	BB	2807	U	Sidechain
26	BB	2808	G	Sidechain
26	BB	2809	A	Sidechain
26	BB	2810	A	Sidechain
26	BB	2816	G	Sidechain
26	BB	2819	G	Sidechain
26	BB	282	A	Sidechain
26	BB	2820	A	Sidechain
26	BB	2822	G	Sidechain
26	BB	2823	A	Sidechain
26	BB	2824	C	Sidechain
26	BB	2828	G	Sidechain
26	BB	2831	G	Sidechain
26	BB	2832	U	Sidechain
26	BB	2834	G	Sidechain
26	BB	2835	A	Sidechain
26	BB	2836	U	Sidechain
26	BB	2838	G	Sidechain
26	BB	2839	G	Sidechain
26	BB	2842	G	Sidechain
26	BB	2844	G	Sidechain
26	BB	2846	G	Sidechain
26	BB	2848	G	Sidechain
26	BB	2849	U	Sidechain
26	BB	285	G	Sidechain
26	BB	2853	C	Sidechain
26	BB	2854	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2857	G	Sidechain
26	BB	2858	C	Sidechain
26	BB	2859	G	Sidechain
26	BB	2860	A	Sidechain
26	BB	2861	U	Sidechain
26	BB	2863	C	Sidechain
26	BB	2864	G	Sidechain
26	BB	2865	U	Sidechain
26	BB	2867	G	Sidechain
26	BB	287	G	Sidechain
26	BB	2871	U	Sidechain
26	BB	2873	A	Sidechain
26	BB	2876	G	Sidechain
26	BB	2877	G	Sidechain
26	BB	2887	A	Sidechain
26	BB	2888	C	Sidechain
26	BB	2890	G	Sidechain
26	BB	2891	U	Sidechain
26	BB	2892	G	Sidechain
26	BB	2894	G	Sidechain
26	BB	2895	G	Sidechain
26	BB	2896	C	Sidechain
26	BB	2897	U	Sidechain
26	BB	2898	U	Sidechain
26	BB	2899	A	Sidechain
26	BB	2900	A	Sidechain
26	BB	2903	U	Sidechain
26	BB	291	G	Sidechain
26	BB	293	U	Sidechain
26	BB	295	G	Sidechain
26	BB	297	G	Sidechain
26	BB	30	G	Sidechain
26	BB	300	A	Sidechain
26	BB	302	C	Sidechain
26	BB	303	G	Sidechain
26	BB	304	U	Sidechain
26	BB	308	G	Sidechain
26	BB	31	C	Sidechain
26	BB	310	A	Sidechain
26	BB	311	A	Sidechain
26	BB	312	G	Sidechain
26	BB	313	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	314	C	Sidechain
26	BB	315	G	Sidechain
26	BB	317	G	Sidechain
26	BB	32	C	Sidechain
26	BB	320	A	Sidechain
26	BB	321	U	Sidechain
26	BB	322	A	Sidechain
26	BB	325	G	Sidechain
26	BB	327	G	Sidechain
26	BB	329	G	Sidechain
26	BB	330	A	Sidechain
26	BB	331	C	Sidechain
26	BB	333	G	Sidechain
26	BB	334	C	Sidechain
26	BB	336	C	Sidechain
26	BB	337	C	Sidechain
26	BB	338	G	Sidechain
26	BB	339	U	Sidechain
26	BB	340	A	Sidechain
26	BB	341	C	Sidechain
26	BB	342	A	Sidechain
26	BB	343	C	Sidechain
26	BB	346	A	Sidechain
26	BB	347	A	Sidechain
26	BB	348	A	Sidechain
26	BB	349	U	Sidechain
26	BB	35	G	Sidechain
26	BB	350	G	Sidechain
26	BB	352	A	Sidechain
26	BB	353	C	Sidechain
26	BB	355	U	Sidechain
26	BB	356	G	Sidechain
26	BB	358	U	Sidechain
26	BB	359	G	Sidechain
26	BB	360	U	Sidechain
26	BB	361	G	Sidechain
26	BB	362	A	Sidechain
26	BB	365	U	Sidechain
26	BB	366	C	Sidechain
26	BB	368	A	Sidechain
26	BB	370	G	Sidechain
26	BB	372	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	373	U	Sidechain
26	BB	376	G	Sidechain
26	BB	377	G	Sidechain
26	BB	379	G	Sidechain
26	BB	38	A	Sidechain
26	BB	380	G	Sidechain
26	BB	381	G	Sidechain
26	BB	383	C	Sidechain
26	BB	386	G	Sidechain
26	BB	387	U	Sidechain
26	BB	389	G	Sidechain
26	BB	39	G	Sidechain
26	BB	392	U	Sidechain
26	BB	393	C	Sidechain
26	BB	395	U	Sidechain
26	BB	396	G	Sidechain
26	BB	397	U	Sidechain
26	BB	398	C	Sidechain
26	BB	4	U	Sidechain
26	BB	40	U	Sidechain
26	BB	403	U	Sidechain
26	BB	404	A	Sidechain
26	BB	406	G	Sidechain
26	BB	407	G	Sidechain
26	BB	408	G	Sidechain
26	BB	409	G	Sidechain
26	BB	41	C	Sidechain
26	BB	412	A	Sidechain
26	BB	418	C	Sidechain
26	BB	42	A	Sidechain
26	BB	420	C	Sidechain
26	BB	424	G	Sidechain
26	BB	425	G	Sidechain
26	BB	426	C	Sidechain
26	BB	428	A	Sidechain
26	BB	43	G	Sidechain
26	BB	430	A	Sidechain
26	BB	431	U	Sidechain
26	BB	432	A	Sidechain
26	BB	434	U	Sidechain
26	BB	436	C	Sidechain
26	BB	44	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	441	U	Sidechain
26	BB	443	A	Sidechain
26	BB	448	U	Sidechain
26	BB	449	A	Sidechain
26	BB	45	G	Sidechain
26	BB	450	G	Sidechain
26	BB	451	U	Sidechain
26	BB	452	G	Sidechain
26	BB	453	A	Sidechain
26	BB	454	A	Sidechain
26	BB	455	C	Sidechain
26	BB	457	A	Sidechain
26	BB	458	G	Sidechain
26	BB	461	C	Sidechain
26	BB	462	C	Sidechain
26	BB	464	U	Sidechain
26	BB	465	G	Sidechain
26	BB	467	G	Sidechain
26	BB	468	G	Sidechain
26	BB	469	G	Sidechain
26	BB	47	C	Sidechain
26	BB	471	A	Sidechain
26	BB	474	G	Sidechain
26	BB	475	C	Sidechain
26	BB	476	G	Sidechain
26	BB	477	A	Sidechain
26	BB	479	A	Sidechain
26	BB	48	G	Sidechain
26	BB	480	A	Sidechain
26	BB	481	G	Sidechain
26	BB	483	A	Sidechain
26	BB	484	C	Sidechain
26	BB	488	G	Sidechain
26	BB	489	G	Sidechain
26	BB	49	A	Sidechain
26	BB	490	C	Sidechain
26	BB	491	G	Sidechain
26	BB	493	G	Sidechain
26	BB	494	G	Sidechain
26	BB	496	G	Sidechain
26	BB	497	A	Sidechain
26	BB	498	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	499	U	Sidechain
26	BB	5	A	Sidechain
26	BB	50	U	Sidechain
26	BB	500	G	Sidechain
26	BB	501	A	Sidechain
26	BB	504	A	Sidechain
26	BB	505	A	Sidechain
26	BB	506	G	Sidechain
26	BB	509	C	Sidechain
26	BB	51	G	Sidechain
26	BB	510	C	Sidechain
26	BB	512	G	Sidechain
26	BB	514	A	Sidechain
26	BB	516	C	Sidechain
26	BB	518	G	Sidechain
26	BB	519	U	Sidechain
26	BB	522	A	Sidechain
26	BB	523	C	Sidechain
26	BB	524	G	Sidechain
26	BB	525	U	Sidechain
26	BB	526	A	Sidechain
26	BB	53	A	Sidechain
26	BB	530	G	Sidechain
26	BB	532	A	Sidechain
26	BB	533	G	Sidechain
26	BB	534	U	Sidechain
26	BB	535	G	Sidechain
26	BB	54	G	Sidechain
26	BB	540	C	Sidechain
26	BB	541	A	Sidechain
26	BB	542	C	Sidechain
26	BB	543	G	Sidechain
26	BB	544	C	Sidechain
26	BB	547	A	Sidechain
26	BB	548	G	Sidechain
26	BB	549	G	Sidechain
26	BB	55	G	Sidechain
26	BB	550	C	Sidechain
26	BB	551	G	Sidechain
26	BB	553	G	Sidechain
26	BB	554	U	Sidechain
26	BB	556	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	558	U	Sidechain
26	BB	559	G	Sidechain
26	BB	56	A	Sidechain
26	BB	561	G	Sidechain
26	BB	563	A	Sidechain
26	BB	566	U	Sidechain
26	BB	57	C	Sidechain
26	BB	570	G	Sidechain
26	BB	571	U	Sidechain
26	BB	572	A	Sidechain
26	BB	573	U	Sidechain
26	BB	574	A	Sidechain
26	BB	576	U	Sidechain
26	BB	577	G	Sidechain
26	BB	579	G	Sidechain
26	BB	580	U	Sidechain
26	BB	583	G	Sidechain
26	BB	586	A	Sidechain
26	BB	589	U	Sidechain
26	BB	59	U	Sidechain
26	BB	590	A	Sidechain
26	BB	591	U	Sidechain
26	BB	595	C	Sidechain
26	BB	598	U	Sidechain
26	BB	599	A	Sidechain
26	BB	60	G	Sidechain
26	BB	601	C	Sidechain
26	BB	604	G	Sidechain
26	BB	605	G	Sidechain
26	BB	606	U	Sidechain
26	BB	607	U	Sidechain
26	BB	608	A	Sidechain
26	BB	614	A	Sidechain
26	BB	615	U	Sidechain
26	BB	617	G	Sidechain
26	BB	618	G	Sidechain
26	BB	619	G	Sidechain
26	BB	62	U	Sidechain
26	BB	620	G	Sidechain
26	BB	623	C	Sidechain
26	BB	624	C	Sidechain
26	BB	625	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	626	A	Sidechain
26	BB	628	G	Sidechain
26	BB	630	G	Sidechain
26	BB	631	A	Sidechain
26	BB	632	A	Sidechain
26	BB	633	A	Sidechain
26	BB	636	G	Sidechain
26	BB	637	A	Sidechain
26	BB	638	G	Sidechain
26	BB	64	A	Sidechain
26	BB	640	C	Sidechain
26	BB	641	U	Sidechain
26	BB	642	U	Sidechain
26	BB	643	A	Sidechain
26	BB	644	A	Sidechain
26	BB	647	G	Sidechain
26	BB	648	G	Sidechain
26	BB	652	U	Sidechain
26	BB	654	A	Sidechain
26	BB	655	A	Sidechain
26	BB	656	G	Sidechain
26	BB	659	G	Sidechain
26	BB	660	C	Sidechain
26	BB	662	G	Sidechain
26	BB	664	G	Sidechain
26	BB	665	U	Sidechain
26	BB	666	A	Sidechain
26	BB	67	U	Sidechain
26	BB	674	G	Sidechain
26	BB	676	A	Sidechain
26	BB	677	A	Sidechain
26	BB	678	C	Sidechain
26	BB	68	G	Sidechain
26	BB	683	U	Sidechain
26	BB	684	G	Sidechain
26	BB	689	A	Sidechain
26	BB	69	C	Sidechain
26	BB	690	G	Sidechain
26	BB	691	C	Sidechain
26	BB	694	U	Sidechain
26	BB	695	G	Sidechain
26	BB	697	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	698	C	Sidechain
26	BB	699	A	Sidechain
26	BB	70	G	Sidechain
26	BB	700	G	Sidechain
26	BB	701	G	Sidechain
26	BB	702	U	Sidechain
26	BB	705	A	Sidechain
26	BB	706	A	Sidechain
26	BB	707	G	Sidechain
26	BB	708	G	Sidechain
26	BB	709	U	Sidechain
26	BB	711	G	Sidechain
26	BB	712	G	Sidechain
26	BB	713	G	Sidechain
26	BB	715	A	Sidechain
26	BB	716	A	Sidechain
26	BB	717	C	Sidechain
26	BB	718	A	Sidechain
26	BB	720	U	Sidechain
26	BB	726	G	Sidechain
26	BB	729	G	Sidechain
26	BB	731	C	Sidechain
26	BB	736	C	Sidechain
26	BB	737	C	Sidechain
26	BB	739	A	Sidechain
26	BB	741	U	Sidechain
26	BB	744	U	Sidechain
26	BB	749	A	Sidechain
26	BB	75	G	Sidechain
26	BB	750	A	Sidechain
26	BB	752	A	Sidechain
26	BB	756	A	Sidechain
26	BB	757	G	Sidechain
26	BB	758	C	Sidechain
26	BB	759	G	Sidechain
26	BB	760	G	Sidechain
26	BB	761	A	Sidechain
26	BB	762	U	Sidechain
26	BB	763	G	Sidechain
26	BB	764	A	Sidechain
26	BB	765	C	Sidechain
26	BB	766	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	767	U	Sidechain
26	BB	768	G	Sidechain
26	BB	77	G	Sidechain
26	BB	771	G	Sidechain
26	BB	772	C	Sidechain
26	BB	774	G	Sidechain
26	BB	775	G	Sidechain
26	BB	776	G	Sidechain
26	BB	777	G	Sidechain
26	BB	778	G	Sidechain
26	BB	780	G	Sidechain
26	BB	781	A	Sidechain
26	BB	783	A	Sidechain
26	BB	785	G	Sidechain
26	BB	788	A	Sidechain
26	BB	789	A	Sidechain
26	BB	799	G	Sidechain
26	BB	800	A	Sidechain
26	BB	801	G	Sidechain
26	BB	802	A	Sidechain
26	BB	804	A	Sidechain
26	BB	805	G	Sidechain
26	BB	806	C	Sidechain
26	BB	807	U	Sidechain
26	BB	809	G	Sidechain
26	BB	81	G	Sidechain
26	BB	811	U	Sidechain
26	BB	812	C	Sidechain
26	BB	814	C	Sidechain
26	BB	817	C	Sidechain
26	BB	818	G	Sidechain
26	BB	819	A	Sidechain
26	BB	820	A	Sidechain
26	BB	821	A	Sidechain
26	BB	824	U	Sidechain
26	BB	826	U	Sidechain
26	BB	828	U	Sidechain
26	BB	829	A	Sidechain
26	BB	83	A	Sidechain
26	BB	830	G	Sidechain
26	BB	831	G	Sidechain
26	BB	832	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	834	G	Sidechain
26	BB	835	C	Sidechain
26	BB	836	G	Sidechain
26	BB	838	C	Sidechain
26	BB	839	U	Sidechain
26	BB	84	A	Sidechain
26	BB	840	C	Sidechain
26	BB	841	G	Sidechain
26	BB	842	U	Sidechain
26	BB	844	A	Sidechain
26	BB	845	A	Sidechain
26	BB	846	U	Sidechain
26	BB	847	U	Sidechain
26	BB	848	C	Sidechain
26	BB	849	A	Sidechain
26	BB	850	U	Sidechain
26	BB	851	C	Sidechain
26	BB	852	U	Sidechain
26	BB	853	C	Sidechain
26	BB	856	G	Sidechain
26	BB	857	G	Sidechain
26	BB	860	U	Sidechain
26	BB	861	A	Sidechain
26	BB	865	C	Sidechain
26	BB	866	A	Sidechain
26	BB	867	C	Sidechain
26	BB	868	U	Sidechain
26	BB	869	G	Sidechain
26	BB	87	U	Sidechain
26	BB	870	U	Sidechain
26	BB	871	U	Sidechain
26	BB	875	G	Sidechain
26	BB	876	C	Sidechain
26	BB	877	A	Sidechain
26	BB	879	G	Sidechain
26	BB	88	G	Sidechain
26	BB	881	G	Sidechain
26	BB	883	G	Sidechain
26	BB	886	A	Sidechain
26	BB	889	C	Sidechain
26	BB	893	C	Sidechain
26	BB	894	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	896	A	Sidechain
26	BB	897	C	Sidechain
26	BB	898	C	Sidechain
26	BB	9	G	Sidechain
26	BB	900	A	Sidechain
26	BB	901	C	Sidechain
26	BB	902	C	Sidechain
26	BB	903	C	Sidechain
26	BB	904	G	Sidechain
26	BB	907	G	Sidechain
26	BB	91	A	Sidechain
26	BB	910	A	Sidechain
26	BB	912	C	Sidechain
26	BB	914	G	Sidechain
26	BB	916	G	Sidechain
26	BB	918	A	Sidechain
26	BB	92	U	Sidechain
26	BB	920	A	Sidechain
26	BB	923	G	Sidechain
26	BB	924	G	Sidechain
26	BB	926	G	Sidechain
26	BB	927	A	Sidechain
26	BB	930	G	Sidechain
26	BB	931	U	Sidechain
26	BB	932	U	Sidechain
26	BB	934	U	Sidechain
26	BB	936	A	Sidechain
26	BB	937	C	Sidechain
26	BB	938	G	Sidechain
26	BB	94	A	Sidechain
26	BB	940	G	Sidechain
26	BB	941	A	Sidechain
26	BB	943	A	Sidechain
26	BB	944	C	Sidechain
26	BB	946	C	Sidechain
26	BB	950	G	Sidechain
26	BB	951	C	Sidechain
26	BB	952	G	Sidechain
26	BB	953	G	Sidechain
26	BB	954	G	Sidechain
26	BB	957	C	Sidechain
26	BB	958	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	959	A	Sidechain
26	BB	961	C	Sidechain
26	BB	962	G	Sidechain
26	BB	963	U	Sidechain
26	BB	966	G	Sidechain
26	BB	968	C	Sidechain
26	BB	969	G	Sidechain
26	BB	97	C	Sidechain
26	BB	970	U	Sidechain
26	BB	971	G	Sidechain
26	BB	975	A	Sidechain
26	BB	976	G	Sidechain
26	BB	977	G	Sidechain
26	BB	978	G	Sidechain
26	BB	98	G	Sidechain
26	BB	984	A	Sidechain
26	BB	985	C	Sidechain
26	BB	989	G	Sidechain
26	BB	99	U	Sidechain
26	BB	990	A	Sidechain
26	BB	991	C	Sidechain
26	BB	993	G	Sidechain
26	BB	997	G	Sidechain
27	BC	177	LYS	Mainchain,Peptide
27	BC	220	ALA	Peptide
27	BC	7	ARG	Sidechain
28	BD	101	ARG	Sidechain
28	BD	12	ARG	Sidechain
28	BD	199	HIS	Sidechain
28	BD	229	HIS	Sidechain
28	BD	232	GLY	Peptide
28	BD	24	HIS	Sidechain
28	BD	261	ARG	Sidechain
28	BD	50	THR	Mainchain
28	BD	51	ARG	Sidechain
28	BD	57	HIS	Sidechain
28	BD	95	TYR	Sidechain
29	BE	113	SER	Peptide
29	BE	119	ALA	Peptide
29	BE	124	ARG	Sidechain
29	BE	179	ARG	Peptide
29	BE	59	ARG	Sidechain

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Mol	Chain	Res	Type	Group
29	BE	77	ARG	Sidechain
29	BE	83	ARG	Sidechain
30	BF	102	ARG	Sidechain
30	BF	119	ILE	Peptide
30	BF	162	ARG	Sidechain
30	BF	23	PHE	Sidechain
30	BF	35	TYR	Sidechain
30	BF	85	PHE	Sidechain
31	BG	109	ARG	Sidechain
31	BG	149	ARG	Peptide
31	BG	151	LEU	Peptide
31	BG	176	PHE	Sidechain
31	BG	21	TYR	Sidechain
31	BG	7	TYR	Sidechain
31	BG	82	TYR	Sidechain
31	BG	87	LYS	Peptide
32	BH	108	PHE	Sidechain
32	BH	2	ARG	Sidechain
32	BH	57	TYR	Sidechain
34	BJ	129	PRO	Peptide
34	BJ	131	TYR	Sidechain
34	BJ	137	ARG	Sidechain
34	BJ	18	ALA	Peptide
34	BJ	50	TYR	Sidechain
34	BJ	53	VAL	Peptide
36	BL	125	TYR	Sidechain
36	BL	35	ARG	Sidechain
36	BL	53	TYR	Sidechain
36	BL	7	LYS	Mainchain
36	BL	75	TYR	Sidechain
36	BL	98	GLU	Peptide
37	BM	31	ARG	Sidechain
37	BM	41	ILE	Peptide
37	BM	98	ARG	Peptide
38	BN	47	ARG	Sidechain
38	BN	60	ARG	Sidechain
38	BN	66	PHE	Sidechain
39	BO	117	PHE	Sidechain
39	BO	40	ARG	Sidechain
40	BP	112	TYR	Sidechain
40	BP	119	SER	Mainchain
40	BP	3	HIS	Sidechain

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Mol	Chain	Res	Type	Group
40	BP	45	ARG	Sidechain
40	BP	94	TYR	Sidechain
40	BP	96	ARG	Sidechain
41	BQ	111	ARG	Sidechain
41	BQ	13	ARG	Sidechain
41	BQ	34	HIS	Sidechain
41	BQ	36	TYR	Sidechain
42	BR	104	GLY	Mainchain,Peptide
42	BR	38	ARG	Sidechain
42	BR	97	TYR	Sidechain
43	BS	44	TYR	Sidechain
43	BS	49	ARG	Sidechain
43	BS	5	ARG	Peptide
43	BS	63	ARG	Sidechain
43	BS	75	TYR	Sidechain
44	BT	93	PHE	Sidechain
45	BU	4	ILE	Peptide
45	BU	88	ARG	Sidechain
45	BU	92	ARG	Sidechain
47	BW	10	VAL	Mainchain,Peptide
48	BX	21	ARG	Sidechain
48	BX	31	TYR	Sidechain
48	BX	56	PHE	Sidechain
49	BY	13	ARG	Peptide
49	BY	14	ASP	Peptide
49	BY	16	GLU	Peptide
49	BY	38	ARG	Sidechain
49	BY	81	ILE	Peptide
50	BZ	27	ARG	Sidechain
50	BZ	44	ARG	Sidechain
50	BZ	73	ARG	Sidechain
50	BZ	77	TYR	Sidechain

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	33089	0	16610	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	AB	1627	0	843	0	0
3	AC	993	0	497	0	0
4	AD	1641	0	841	0	0
5	AE	1872	0	1885	0	0
6	AF	1822	0	1913	0	0
7	AG	1643	0	1710	0	0
8	AH	1225	0	1273	0	0
9	AI	1101	0	1050	0	0
10	AJ	1400	0	1449	0	0
11	AK	979	0	1034	0	0
12	AL	1036	0	1084	0	0
13	AM	825	0	865	0	0
14	AN	965	0	997	0	0
15	AO	955	0	1019	0	0
16	AP	910	0	981	0	0
17	AQ	805	0	847	0	0
18	AR	716	0	742	0	0
19	AS	649	0	666	0	0
20	AT	672	0	716	0	0
21	AU	626	0	651	0	0
22	AV	727	0	769	0	0
23	AW	670	0	722	0	0
24	AX	590	0	631	0	0
25	BA	2566	0	1302	0	0
26	BB	62351	0	31246	0	0
27	BC	1733	0	1824	0	0
28	BD	2092	0	2170	0	0
29	BE	1565	0	1616	0	0
30	BF	1552	0	1619	0	0
31	BG	1420	0	1460	0	0
32	BH	1323	0	1374	0	0
33	BI	1111	0	1148	0	0
34	BJ	1233	0	1283	0	0
35	BK	1032	0	1088	0	0
36	BL	1129	0	1162	0	0
37	BM	947	0	1023	0	0
38	BN	1053	0	1129	0	0
39	BO	1074	0	1157	0	0
40	BP	1008	0	1045	0	0
41	BQ	900	0	935	0	0
42	BR	917	0	965	0	0
43	BS	947	0	1022	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	BT	816	0	839	0	0
45	BU	857	0	922	0	0
46	BV	787	0	846	0	0
47	BW	789	0	847	0	0
48	BX	753	0	780	0	0
49	BY	634	0	656	0	0
50	BZ	625	0	655	0	0
51	B0	509	0	543	0	0
52	B1	449	0	491	0	0
53	B2	549	0	552	0	0
54	B3	444	0	461	0	0
55	B4	441	0	485	0	0
56	B5	377	0	418	0	0
57	B6	504	0	574	0	0
58	B7	302	0	343	0	0
59	AB	14	0	9	0	0
60	BB	10	0	10	0	0
All	All	152351	0	103794	0	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). Clashscore could not be calculated for this entry.

There are no clashes within the asymmetric unit.

There are no symmetry-related clashes.

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 PDB entries followed by that with respect to all EM entries.

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
5	AE	238/240 (99%)	221 (93%)	13 (6%)	4 (2%)	9 42
6	AF	230/232 (99%)	200 (87%)	25 (11%)	5 (2%)	6 35
7	AG	203/205 (99%)	180 (89%)	18 (9%)	5 (2%)	5 32
8	AH	164/166 (99%)	141 (86%)	19 (12%)	4 (2%)	6 33

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
9	AI	133/135 (98%)	118 (89%)	11 (8%)	4 (3%)	4 28
10	AJ	176/178 (99%)	164 (93%)	11 (6%)	1 (1%)	25 66
11	AK	127/129 (98%)	114 (90%)	11 (9%)	2 (2%)	9 44
12	AL	127/129 (98%)	109 (86%)	17 (13%)	1 (1%)	19 60
13	AM	101/103 (98%)	90 (89%)	7 (7%)	4 (4%)	3 23
14	AN	126/128 (98%)	105 (83%)	18 (14%)	3 (2%)	6 33
15	AO	121/123 (98%)	102 (84%)	16 (13%)	3 (2%)	5 32
16	AP	115/117 (98%)	104 (90%)	10 (9%)	1 (1%)	17 57
17	AQ	98/100 (98%)	84 (86%)	10 (10%)	4 (4%)	3 23
18	AR	86/88 (98%)	80 (93%)	6 (7%)	0	100 100
19	AS	80/82 (98%)	69 (86%)	9 (11%)	2 (2%)	5 32
20	AT	81/83 (98%)	71 (88%)	10 (12%)	0	100 100
21	AU	72/74 (97%)	63 (88%)	6 (8%)	3 (4%)	3 22
22	AV	89/91 (98%)	78 (88%)	10 (11%)	1 (1%)	14 52
23	AW	84/86 (98%)	79 (94%)	4 (5%)	1 (1%)	13 50
24	AX	68/70 (97%)	55 (81%)	9 (13%)	4 (6%)	1 17
27	BC	232/234 (99%)	208 (90%)	20 (9%)	4 (2%)	9 42
28	BD	270/272 (99%)	227 (84%)	37 (14%)	6 (2%)	6 35
29	BE	207/209 (99%)	171 (83%)	25 (12%)	11 (5%)	2 19
30	BF	199/201 (99%)	167 (84%)	26 (13%)	6 (3%)	4 28
31	BG	176/178 (99%)	144 (82%)	19 (11%)	13 (7%)	1 14
32	BH	174/176 (99%)	149 (86%)	16 (9%)	9 (5%)	2 19
33	BI	147/149 (99%)	132 (90%)	12 (8%)	3 (2%)	7 38
34	BJ	162/164 (99%)	140 (86%)	16 (10%)	6 (4%)	3 24
35	BK	139/141 (99%)	128 (92%)	9 (6%)	2 (1%)	11 46
36	BL	140/142 (99%)	118 (84%)	18 (13%)	4 (3%)	4 29
37	BM	121/123 (98%)	102 (84%)	14 (12%)	5 (4%)	3 23
38	BN	142/144 (99%)	113 (80%)	25 (18%)	4 (3%)	5 30
39	BO	134/136 (98%)	120 (90%)	13 (10%)	1 (1%)	22 63
40	BP	125/127 (98%)	116 (93%)	9 (7%)	0	100 100
41	BQ	115/117 (98%)	103 (90%)	12 (10%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
42	BR	112/114 (98%)	90 (80%)	16 (14%)	6 (5%)	2 19
43	BS	115/117 (98%)	105 (91%)	7 (6%)	3 (3%)	5 31
44	BT	101/103 (98%)	92 (91%)	8 (8%)	1 (1%)	15 55
45	BU	108/110 (98%)	100 (93%)	4 (4%)	4 (4%)	3 24
46	BV	98/100 (98%)	85 (87%)	12 (12%)	1 (1%)	15 55
47	BW	101/103 (98%)	84 (83%)	15 (15%)	2 (2%)	7 38
48	BX	92/94 (98%)	79 (86%)	11 (12%)	2 (2%)	6 35
49	BY	82/84 (98%)	64 (78%)	15 (18%)	3 (4%)	3 24
50	BZ	75/77 (97%)	63 (84%)	9 (12%)	3 (4%)	3 23
51	B0	61/63 (97%)	53 (87%)	6 (10%)	2 (3%)	4 26
52	B1	56/58 (97%)	55 (98%)	1 (2%)	0	100 100
53	B2	68/70 (97%)	51 (75%)	12 (18%)	5 (7%)	1 14
54	B3	54/56 (96%)	38 (70%)	14 (26%)	2 (4%)	3 24
55	B4	52/54 (96%)	47 (90%)	4 (8%)	1 (2%)	8 38
56	B5	44/46 (96%)	39 (89%)	4 (9%)	1 (2%)	6 34
57	B6	62/64 (97%)	59 (95%)	3 (5%)	0	100 100
58	B7	36/38 (95%)	28 (78%)	6 (17%)	2 (6%)	2 19
All	All	6319/6423 (98%)	5497 (87%)	658 (10%)	164 (3%)	8 31

All (164) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	AE	84	LEU
5	AE	93	HIS
7	AG	3	TYR
8	AH	77	ASN
9	AI	99	ALA
14	AN	125	LYS
24	AX	24	LYS
28	BD	8	THR
28	BD	64	VAL
30	BF	62	GLN
31	BG	88	VAL
31	BG	103	ILE
31	BG	148	VAL
31	BG	174	PHE

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Mol	Chain	Res	Type
32	BH	8	VAL
32	BH	94	ARG
35	BK	3	LYS
38	BN	94	THR
42	BR	25	VAL
47	BW	52	ASN
49	BY	36	ILE
53	B2	9	TYR
54	B3	2	VAL
54	B3	51	ARG
55	B4	52	LYS
5	AE	128	LEU
6	AF	47	ALA
7	AG	27	ILE
9	AI	39	LEU
15	AO	87	LYS
15	AO	118	VAL
19	AS	80	LYS
24	AX	3	ILE
28	BD	77	VAL
29	BE	37	VAL
29	BE	109	VAL
30	BF	96	VAL
31	BG	66	ILE
31	BG	79	ARG
31	BG	80	GLN
31	BG	145	VAL
31	BG	170	ALA
32	BH	45	ALA
32	BH	170	THR
33	BI	3	VAL
33	BI	75	LEU
34	BJ	113	GLU
36	BL	126	ALA
37	BM	71	ARG
38	BN	22	GLY
39	BO	59	ARG
42	BR	32	VAL
43	BS	87	VAL
47	BW	97	SER
50	BZ	16	ASN
50	BZ	27	ARG

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Mol	Chain	Res	Type
51	B0	46	VAL
5	AE	94	ARG
6	AF	14	VAL
7	AG	41	GLY
8	AH	22	LYS
11	AK	69	ALA
13	AM	95	GLY
14	AN	108	ASN
15	AO	121	PRO
22	AV	31	ARG
23	AW	67	HIS
28	BD	94	LEU
29	BE	43	ASP
29	BE	119	ALA
29	BE	170	VAL
29	BE	173	GLN
30	BF	54	GLY
30	BF	153	LEU
30	BF	174	GLY
31	BG	35	LEU
32	BH	29	ASN
32	BH	84	LYS
36	BL	120	ARG
37	BM	72	PRO
45	BU	65	ASP
45	BU	80	PRO
46	BV	35	ALA
49	BY	41	GLY
51	B0	57	LEU
53	B2	41	HIS
58	B7	6	SER
7	AG	29	THR
8	AH	7	ALA
8	AH	53	ARG
9	AI	54	LEU
11	AK	80	PRO
12	AL	120	ALA
13	AM	52	LEU
13	AM	58	ASN
17	AQ	52	ARG
17	AQ	65	GLN
17	AQ	70	HIS

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Mol	Chain	Res	Type
19	AS	49	GLY
21	AU	20	ILE
27	BC	159	GLY
29	BE	97	SER
29	BE	191	GLY
31	BG	20	ASN
31	BG	81	GLY
32	BH	56	GLY
32	BH	80	GLU
32	BH	175	LYS
34	BJ	31	GLY
34	BJ	33	THR
37	BM	46	ALA
37	BM	89	ASN
38	BN	99	ASN
38	BN	117	THR
42	BR	86	LYS
42	BR	110	LYS
43	BS	101	ASP
44	BT	91	GLN
48	BX	71	LYS
50	BZ	2	ARG
53	B2	43	PHE
56	B5	16	HIS
6	AF	6	PRO
7	AG	22	SER
9	AI	127	GLY
10	AJ	81	GLY
14	AN	116	PRO
16	AP	22	TYR
21	AU	11	ARG
27	BC	20	GLN
27	BC	66	PRO
28	BD	254	LYS
34	BJ	87	HIS
34	BJ	102	ASN
45	BU	89	ALA
49	BY	5	ALA
53	B2	21	VAL
58	B7	16	ILE
6	AF	104	GLU
17	AQ	39	ASP

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Mol	Chain	Res	Type
24	AX	9	GLU
29	BE	131	ASP
35	BK	18	ASN
36	BL	3	THR
36	BL	96	ARG
45	BU	61	ASN
30	BF	64	GLY
33	BI	9	VAL
34	BJ	14	VAL
37	BM	93	GLN
24	AX	26	GLY
28	BD	205	GLY
29	BE	205	PRO
42	BR	89	GLY
43	BS	93	ILE
53	B2	5	ILE
6	AF	144	GLY
13	AM	74	VAL
21	AU	40	PRO
27	BC	91	GLY
29	BE	122	VAL
42	BR	63	ILE
31	BG	84	ILE
48	BX	37	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 PDB entries followed by that with respect to all EM entries.

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
5	AE	198/198 (100%)	193 (98%)	5 (2%)	47 68
6	AF	189/189 (100%)	181 (96%)	8 (4%)	30 54
7	AG	172/172 (100%)	164 (95%)	8 (5%)	26 51
8	AH	125/125 (100%)	121 (97%)	4 (3%)	39 61
9	AI	116/116 (100%)	110 (95%)	6 (5%)	23 48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
10	AJ	146/146 (100%)	140 (96%)	6 (4%)	30 55
11	AK	104/104 (100%)	98 (94%)	6 (6%)	20 45
12	AL	106/106 (100%)	103 (97%)	3 (3%)	43 65
13	AM	90/90 (100%)	84 (93%)	6 (7%)	16 41
14	AN	98/98 (100%)	94 (96%)	4 (4%)	30 55
15	AO	103/103 (100%)	100 (97%)	3 (3%)	42 64
16	AP	95/95 (100%)	90 (95%)	5 (5%)	22 47
17	AQ	83/83 (100%)	80 (96%)	3 (4%)	35 59
18	AR	76/76 (100%)	75 (99%)	1 (1%)	69 81
19	AS	65/65 (100%)	63 (97%)	2 (3%)	40 62
20	AT	77/77 (100%)	73 (95%)	4 (5%)	23 48
21	AU	64/64 (100%)	59 (92%)	5 (8%)	12 36
22	AV	78/78 (100%)	71 (91%)	7 (9%)	9 30
23	AW	65/65 (100%)	64 (98%)	1 (2%)	65 80
24	AX	60/60 (100%)	58 (97%)	2 (3%)	38 61
27	BC	181/181 (100%)	172 (95%)	9 (5%)	24 49
28	BD	217/217 (100%)	204 (94%)	13 (6%)	19 44
29	BE	164/164 (100%)	150 (92%)	14 (8%)	10 33
30	BF	165/165 (100%)	154 (93%)	11 (7%)	16 41
31	BG	149/149 (100%)	138 (93%)	11 (7%)	13 38
32	BH	137/137 (100%)	129 (94%)	8 (6%)	20 45
33	BI	114/114 (100%)	108 (95%)	6 (5%)	22 47
34	BJ	122/122 (100%)	116 (95%)	6 (5%)	25 50
35	BK	109/109 (100%)	105 (96%)	4 (4%)	34 58
36	BL	116/116 (100%)	113 (97%)	3 (3%)	46 66
37	BM	104/104 (100%)	101 (97%)	3 (3%)	42 64
38	BN	103/103 (100%)	96 (93%)	7 (7%)	16 41
39	BO	109/109 (100%)	106 (97%)	3 (3%)	43 65
40	BP	103/103 (100%)	98 (95%)	5 (5%)	25 50
41	BQ	87/87 (100%)	84 (97%)	3 (3%)	37 60
42	BR	99/99 (100%)	93 (94%)	6 (6%)	18 44

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
43	BS	89/89 (100%)	87 (98%)	2 (2%)	52 71
44	BT	84/84 (100%)	79 (94%)	5 (6%)	19 44
45	BU	93/93 (100%)	90 (97%)	3 (3%)	39 61
46	BV	84/84 (100%)	77 (92%)	7 (8%)	11 34
47	BW	84/84 (100%)	80 (95%)	4 (5%)	25 51
48	BX	78/78 (100%)	73 (94%)	5 (6%)	17 42
49	BY	62/62 (100%)	60 (97%)	2 (3%)	39 61
50	BZ	67/67 (100%)	63 (94%)	4 (6%)	19 44
51	B0	55/55 (100%)	52 (94%)	3 (6%)	21 47
52	B1	48/48 (100%)	46 (96%)	2 (4%)	30 54
53	B2	62/62 (100%)	57 (92%)	5 (8%)	11 35
54	B3	47/47 (100%)	46 (98%)	1 (2%)	53 72
55	B4	48/48 (100%)	48 (100%)	0	100 100
56	B5	38/38 (100%)	37 (97%)	1 (3%)	46 66
57	B6	51/51 (100%)	48 (94%)	3 (6%)	19 45
58	B7	34/34 (100%)	33 (97%)	1 (3%)	42 64
All	All	5213/5213 (100%)	4964 (95%)	249 (5%)	29 51

All (249) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
5	AE	91	VAL
5	AE	121	GLN
5	AE	157	PRO
5	AE	170	ILE
5	AE	209	VAL
6	AF	44	LYS
6	AF	58	ARG
6	AF	68	HIS
6	AF	123	LEU
6	AF	168	ARG
6	AF	178	ARG
6	AF	215	GLN
6	AF	229	LYS
7	AG	46	ARG
7	AG	57	LYS

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Mol	Chain	Res	Type
7	AG	58	GLN
7	AG	89	LEU
7	AG	119	HIS
7	AG	138	PRO
7	AG	147	LYS
7	AG	191	SER
8	AH	47	PHE
8	AH	51	LYS
8	AH	53	ARG
8	AH	141	ASP
9	AI	9	MET
9	AI	12	PRO
9	AI	33	GLU
9	AI	86	ARG
9	AI	89	VAL
9	AI	102	MET
10	AJ	22	LEU
10	AJ	74	VAL
10	AJ	135	LYS
10	AJ	150	PHE
10	AJ	156	LEU
10	AJ	170	LYS
11	AK	47	ASP
11	AK	55	LYS
11	AK	60	LEU
11	AK	64	TYR
11	AK	66	GLN
11	AK	98	LEU
12	AL	59	LYS
12	AL	61	ASP
12	AL	108	ARG
13	AM	4	GLN
13	AM	48	ARG
13	AM	50	THR
13	AM	52	LEU
13	AM	59	LYS
13	AM	100	ILE
14	AN	6	ARG
14	AN	52	ARG
14	AN	88	PRO
14	AN	128	VAL
15	AO	14	LYS

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Mol	Chain	Res	Type
15	AO	28	GLN
15	AO	29	LYS
16	AP	13	HIS
16	AP	15	VAL
16	AP	41	ASP
16	AP	69	ARG
16	AP	85	TYR
17	AQ	60	ARG
17	AQ	68	ARG
17	AQ	95	LEU
18	AR	55	LEU
19	AS	18	GLN
19	AS	55	ASP
20	AT	3	LYS
20	AT	19	SER
20	AT	75	VAL
20	AT	76	ARG
21	AU	2	ARG
21	AU	39	VAL
21	AU	49	LYS
21	AU	56	ARG
21	AU	59	LYS
22	AV	4	LEU
22	AV	33	TRP
22	AV	35	ARG
22	AV	52	ASN
22	AV	54	ARG
22	AV	56	HIS
22	AV	80	ARG
23	AW	58	ASP
24	AX	6	ARG
24	AX	34	ARG
27	BC	4	LEU
27	BC	7	ARG
27	BC	16	ASP
27	BC	41	SER
27	BC	98	GLU
27	BC	108	GLU
27	BC	109	MET
27	BC	112	ASP
27	BC	131	LEU
28	BD	80	LEU

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Mol	Chain	Res	Type
28	BD	155	ARG
28	BD	173	LEU
28	BD	176	ARG
28	BD	188	ARG
28	BD	198	GLU
28	BD	212	TRP
28	BD	231	HIS
28	BD	235	GLU
28	BD	239	PHE
28	BD	260	LYS
28	BD	265	PHE
28	BD	270	ARG
29	BE	2	ILE
29	BE	24	VAL
29	BE	33	ARG
29	BE	40	LEU
29	BE	46	ARG
29	BE	56	LYS
29	BE	74	GLU
29	BE	84	LEU
29	BE	97	SER
29	BE	107	VAL
29	BE	110	THR
29	BE	114	LYS
29	BE	164	GLN
29	BE	169	ARG
30	BF	2	GLU
30	BF	13	THR
30	BF	17	THR
30	BF	31	VAL
30	BF	74	LYS
30	BF	78	TRP
30	BF	88	ARG
30	BF	90	GLN
30	BF	97	ASN
30	BF	139	LYS
30	BF	163	ASN
31	BG	9	ASP
31	BG	32	LYS
31	BG	48	LEU
31	BG	68	LYS
31	BG	70	ARG

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Mol	Chain	Res	Type
31	BG	91	ARG
31	BG	103	ILE
31	BG	111	ARG
31	BG	132	ARG
31	BG	139	GLU
31	BG	146	ASP
32	BH	70	LEU
32	BH	74	MET
32	BH	106	LEU
32	BH	110	HIS
32	BH	123	GLU
32	BH	156	TYR
32	BH	166	GLU
32	BH	171	LYS
33	BI	79	THR
33	BI	87	GLU
33	BI	89	LYS
33	BI	114	GLU
33	BI	129	GLU
33	BI	142	VAL
34	BJ	15	SER
34	BJ	36	LYS
34	BJ	39	GLU
34	BJ	87	HIS
34	BJ	105	PHE
34	BJ	128	LEU
35	BK	9	LYS
35	BK	33	ASN
35	BK	48	ILE
35	BK	129	GLU
36	BL	12	LYS
36	BL	43	GLU
36	BL	136	GLN
37	BM	2	ILE
37	BM	37	ASP
37	BM	65	THR
38	BN	2	ARG
38	BN	41	ARG
38	BN	57	LEU
38	BN	58	TYR
38	BN	69	ARG
38	BN	99	ASN

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Mol	Chain	Res	Type
38	BN	115	GLU
39	BO	38	ARG
39	BO	58	LYS
39	BO	123	LYS
40	BP	8	ARG
40	BP	9	GLN
40	BP	14	SER
40	BP	16	HIS
40	BP	97	ILE
41	BQ	3	LYS
41	BQ	30	ARG
41	BQ	94	ARG
42	BR	14	GLN
42	BR	15	ASP
42	BR	43	GLU
42	BR	52	ARG
42	BR	55	HIS
42	BR	91	VAL
43	BS	8	ILE
43	BS	39	ILE
44	BT	23	GLU
44	BT	40	MET
44	BT	51	VAL
44	BT	78	ARG
44	BT	97	LYS
45	BU	22	ASP
45	BU	72	THR
45	BU	95	ARG
46	BV	15	HIS
46	BV	24	MET
46	BV	25	GLU
46	BV	28	ASN
46	BV	32	LEU
46	BV	80	TRP
46	BV	82	LYS
47	BW	48	VAL
47	BW	81	ARG
47	BW	94	PHE
47	BW	98	ASN
48	BX	9	ARG
48	BX	44	HIS
48	BX	70	ILE

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Mol	Chain	Res	Type
48	BX	73	LYS
48	BX	86	LEU
49	BY	16	GLU
49	BY	38	ARG
50	BZ	10	ARG
50	BZ	33	HIS
50	BZ	55	MET
50	BZ	59	ASP
51	B0	1	MET
51	B0	43	LEU
51	B0	55	THR
52	B1	16	LEU
52	B1	29	ARG
53	B2	3	LYS
53	B2	11	GLU
53	B2	22	MET
53	B2	43	PHE
53	B2	45	THR
54	B3	41	HIS
56	B5	43	THR
57	B6	42	HIS
57	B6	46	LYS
57	B6	49	VAL
58	B7	12	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1538/1542 (99%)	287 (18%)	93 (6%)
2	AB	74/76 (97%)	23 (31%)	7 (9%)
25	BA	119/120 (99%)	20 (16%)	13 (10%)
26	BB	2898/2904 (99%)	536 (18%)	180 (6%)
3	AC	47/47 (100%)	26 (55%)	14 (29%)
4	AD	76/77 (98%)	13 (17%)	4 (5%)
All	All	4752/4766 (99%)	905 (19%)	311 (6%)

All (905) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	2	A
1	AA	6	G
1	AA	32	A
1	AA	36	C
1	AA	48	C
1	AA	52	C
1	AA	53	A
1	AA	54	C
1	AA	60	A
1	AA	61	G
1	AA	83	C
1	AA	84	U
1	AA	98	A
1	AA	108	G
1	AA	122	G
1	AA	123	U
1	AA	129	A
1	AA	131	A
1	AA	153	C
1	AA	164	G
1	AA	166	U
1	AA	171	A
1	AA	174	A
1	AA	182	A
1	AA	183	C
1	AA	184	G
1	AA	188	C
1	AA	197	A
1	AA	204	G
1	AA	210	C
1	AA	212	G
1	AA	225	C
1	AA	228	A
1	AA	229	U
1	AA	240	G
1	AA	244	U
1	AA	245	U
1	AA	247	G
1	AA	250	A
1	AA	251	G
1	AA	252	U
1	AA	262	A
1	AA	266	G

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Mol	Chain	Res	Type
1	AA	267	C
1	AA	272	C
1	AA	280	C
1	AA	289	G
1	AA	293	G
1	AA	306	A
1	AA	316	C
1	AA	317	U
1	AA	319	G
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	344	A
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	372	C
1	AA	373	A
1	AA	374	A
1	AA	381	C
1	AA	382	A
1	AA	384	G
1	AA	389	A
1	AA	390	U
1	AA	392	C
1	AA	395	C
1	AA	398	U
1	AA	406	G
1	AA	411	A
1	AA	413	G
1	AA	415	A
1	AA	421	U
1	AA	422	C
1	AA	429	U
1	AA	444	G
1	AA	463	U
1	AA	464	U
1	AA	466	A
1	AA	467	U
1	AA	468	A
1	AA	479	U
1	AA	481	G

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Mol	Chain	Res	Type
1	AA	485	U
1	AA	486	U
1	AA	494	G
1	AA	496	A
1	AA	497	G
1	AA	498	A
1	AA	505	G
1	AA	508	U
1	AA	510	A
1	AA	518	C
1	AA	528	C
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	535	A
1	AA	547	A
1	AA	552	U
1	AA	553	A
1	AA	561	U
1	AA	566	G
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	C
1	AA	577	G
1	AA	578	C
1	AA	583	A
1	AA	615	G
1	AA	631	C
1	AA	632	U
1	AA	633	G
1	AA	636	U
1	AA	641	U
1	AA	642	A
1	AA	650	G
1	AA	653	U
1	AA	654	G
1	AA	687	A
1	AA	688	G
1	AA	695	A
1	AA	702	A

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Mol	Chain	Res	Type
1	AA	704	A
1	AA	718	A
1	AA	721	G
1	AA	724	G
1	AA	755	G
1	AA	760	G
1	AA	765	G
1	AA	766	A
1	AA	770	C
1	AA	777	A
1	AA	783	C
1	AA	790	A
1	AA	791	G
1	AA	805	C
1	AA	810	C
1	AA	812	G
1	AA	817	C
1	AA	819	A
1	AA	821	G
1	AA	828	U
1	AA	829	G
1	AA	834	U
1	AA	840	C
1	AA	841	C
1	AA	842	U
1	AA	843	U
1	AA	846	G
1	AA	870	U
1	AA	873	A
1	AA	874	G
1	AA	876	C
1	AA	890	G
1	AA	899	C
1	AA	900	A
1	AA	910	C
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	933	G
1	AA	938	A
1	AA	939	G
1	AA	945	G

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Mol	Chain	Res	Type
1	AA	960	U
1	AA	961	U
1	AA	962	C
1	AA	968	A
1	AA	969	A
1	AA	973	G
1	AA	974	A
1	AA	975	A
1	AA	978	A
1	AA	981	U
1	AA	984	C
1	AA	993	G
1	AA	994	A
1	AA	995	C
1	AA	1004	A
1	AA	1006	G
1	AA	1014	A
1	AA	1015	G
1	AA	1026	G
1	AA	1028	C
1	AA	1030	U
1	AA	1031	C
1	AA	1050	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1081	A
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1118	U
1	AA	1126	U
1	AA	1127	G
1	AA	1137	C
1	AA	1139	G
1	AA	1148	U
1	AA	1149	C
1	AA	1152	A
1	AA	1154	G
1	AA	1159	U
1	AA	1168	U
1	AA	1181	G

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Mol	Chain	Res	Type
1	AA	1183	U
1	AA	1184	G
1	AA	1190	G
1	AA	1197	A
1	AA	1198	G
1	AA	1200	C
1	AA	1201	A
1	AA	1202	U
1	AA	1208	C
1	AA	1212	U
1	AA	1214	C
1	AA	1215	G
1	AA	1224	U
1	AA	1226	C
1	AA	1227	A
1	AA	1228	C
1	AA	1238	A
1	AA	1240	U
1	AA	1241	G
1	AA	1250	A
1	AA	1253	G
1	AA	1254	A
1	AA	1256	A
1	AA	1264	U
1	AA	1270	G
1	AA	1278	G
1	AA	1279	G
1	AA	1280	A
1	AA	1281	C
1	AA	1286	U
1	AA	1290	G
1	AA	1297	G
1	AA	1300	G
1	AA	1301	U
1	AA	1303	C
1	AA	1305	G
1	AA	1315	U
1	AA	1317	C
1	AA	1318	A
1	AA	1319	A
1	AA	1322	C
1	AA	1336	C

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Mol	Chain	Res	Type
1	AA	1340	A
1	AA	1345	U
1	AA	1346	A
1	AA	1347	G
1	AA	1348	U
1	AA	1360	A
1	AA	1362	A
1	AA	1363	A
1	AA	1368	A
1	AA	1378	C
1	AA	1397	C
1	AA	1398	A
1	AA	1401	G
1	AA	1431	A
1	AA	1432	G
1	AA	1437	A
1	AA	1446	A
1	AA	1448	C
1	AA	1454	G
1	AA	1490	U
1	AA	1492	A
1	AA	1493	A
1	AA	1494	G
1	AA	1502	A
1	AA	1503	A
1	AA	1505	G
1	AA	1506	U
1	AA	1517	G
1	AA	1520	C
1	AA	1529	G
1	AA	1530	G
1	AA	1534	A
1	AA	1535	C
1	AA	1540	U
2	AB	8	4SU
2	AB	9	A
2	AB	10	G
2	AB	11	U
2	AB	17	H2U
2	AB	23	A
2	AB	24	G
2	AB	34	C

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Mol	Chain	Res	Type
2	AB	35	C
2	AB	36	A
2	AB	46	7MG
2	AB	47	U
2	AB	48	U
2	AB	49	G
2	AB	58	A
2	AB	59	G
2	AB	60	U
2	AB	61	C
2	AB	65	C
2	AB	73	G
2	AB	74	C
2	AB	75	C
2	AB	76	A
3	AC	14	G
3	AC	15	G
3	AC	17	U
3	AC	18	A
3	AC	21	U
3	AC	22	G
3	AC	23	C
3	AC	25	U
3	AC	26	U
3	AC	27	A
3	AC	28	U
3	AC	29	G
3	AC	31	U
3	AC	32	U
3	AC	34	U
3	AC	40	G
3	AC	41	A
3	AC	44	U
3	AC	45	G
3	AC	47	C
3	AC	50	U
3	AC	51	C
3	AC	52	U
3	AC	53	G
3	AC	54	U
3	AC	56	G
4	AD	8	4SU

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Mol	Chain	Res	Type
4	AD	9	G
4	AD	10	G
4	AD	18	U
4	AD	19	G
4	AD	20	G
4	AD	22	A
4	AD	38	A
4	AD	49	C
4	AD	50	G
4	AD	73	A
4	AD	76	C
4	AD	77	A
25	BA	9	G
25	BA	13	G
25	BA	14	U
25	BA	15	A
25	BA	16	G
25	BA	25	U
25	BA	26	C
25	BA	35	C
25	BA	41	G
25	BA	44	G
25	BA	51	G
25	BA	58	A
25	BA	66	A
25	BA	67	G
25	BA	73	A
25	BA	87	U
25	BA	88	C
25	BA	89	U
25	BA	90	C
25	BA	99	A
26	BB	13	A
26	BB	14	A
26	BB	18	U
26	BB	30	G
26	BB	34	U
26	BB	42	A
26	BB	43	G
26	BB	45	G
26	BB	46	G
26	BB	49	A

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Mol	Chain	Res	Type
26	BB	50	U
26	BB	71	A
26	BB	72	U
26	BB	75	G
26	BB	88	G
26	BB	91	A
26	BB	95	A
26	BB	100	U
26	BB	101	A
26	BB	103	A
26	BB	115	C
26	BB	119	A
26	BB	120	U
26	BB	125	A
26	BB	126	A
26	BB	128	C
26	BB	181	A
26	BB	194	G
26	BB	196	A
26	BB	197	A
26	BB	199	A
26	BB	204	A
26	BB	205	G
26	BB	215	G
26	BB	216	A
26	BB	218	A
26	BB	219	A
26	BB	222	A
26	BB	224	U
26	BB	225	C
26	BB	228	C
26	BB	232	G
26	BB	242	G
26	BB	243	U
26	BB	248	G
26	BB	249	C
26	BB	250	G
26	BB	255	A
26	BB	265	A
26	BB	266	G
26	BB	267	C
26	BB	271	G

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Mol	Chain	Res	Type
26	BB	277	G
26	BB	294	A
26	BB	295	G
26	BB	311	A
26	BB	321	U
26	BB	322	A
26	BB	330	A
26	BB	332	A
26	BB	333	G
26	BB	338	G
26	BB	368	A
26	BB	369	U
26	BB	371	A
26	BB	372	G
26	BB	386	G
26	BB	389	G
26	BB	390	U
26	BB	391	A
26	BB	396	G
26	BB	403	U
26	BB	404	A
26	BB	405	U
26	BB	406	G
26	BB	411	G
26	BB	424	G
26	BB	428	A
26	BB	429	A
26	BB	431	U
26	BB	436	C
26	BB	451	U
26	BB	452	G
26	BB	454	A
26	BB	456	C
26	BB	472	A
26	BB	479	A
26	BB	480	A
26	BB	481	G
26	BB	484	C
26	BB	489	G
26	BB	490	C
26	BB	504	A
26	BB	505	A

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Mol	Chain	Res	Type
26	BB	508	A
26	BB	509	C
26	BB	527	C
26	BB	532	A
26	BB	545	U
26	BB	546	U
26	BB	550	C
26	BB	562	U
26	BB	563	A
26	BB	570	G
26	BB	571	U
26	BB	573	U
26	BB	574	A
26	BB	575	A
26	BB	602	A
26	BB	603	A
26	BB	604	G
26	BB	612	G
26	BB	635	C
26	BB	637	A
26	BB	644	A
26	BB	645	C
26	BB	652	U
26	BB	653	U
26	BB	654	A
26	BB	655	A
26	BB	656	G
26	BB	671	C
26	BB	675	A
26	BB	686	U
26	BB	696	G
26	BB	718	A
26	BB	719	C
26	BB	728	G
26	BB	730	A
26	BB	732	C
26	BB	736	C
26	BB	747	5MU
26	BB	751	A
26	BB	752	A
26	BB	753	A
26	BB	758	C

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Mol	Chain	Res	Type
26	BB	762	U
26	BB	763	G
26	BB	764	A
26	BB	775	G
26	BB	782	A
26	BB	784	G
26	BB	786	C
26	BB	789	A
26	BB	793	A
26	BB	805	G
26	BB	812	C
26	BB	830	G
26	BB	846	U
26	BB	847	U
26	BB	848	C
26	BB	859	G
26	BB	870	U
26	BB	887	U
26	BB	889	C
26	BB	894	U
26	BB	896	A
26	BB	897	C
26	BB	901	C
26	BB	910	A
26	BB	914	G
26	BB	915	C
26	BB	925	A
26	BB	932	U
26	BB	933	A
26	BB	938	G
26	BB	941	A
26	BB	945	A
26	BB	946	C
26	BB	957	C
26	BB	961	C
26	BB	973	A
26	BB	974	G
26	BB	980	A
26	BB	982	C
26	BB	985	C
26	BB	986	C
26	BB	990	A

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Mol	Chain	Res	Type
26	BB	991	C
26	BB	995	C
26	BB	996	A
26	BB	1002	G
26	BB	1003	G
26	BB	1005	C
26	BB	1008	A
26	BB	1010	A
26	BB	1013	C
26	BB	1022	G
26	BB	1025	G
26	BB	1034	G
26	BB	1044	C
26	BB	1048	A
26	BB	1052	C
26	BB	1060	U
26	BB	1061	U
26	BB	1062	G
26	BB	1069	A
26	BB	1070	A
26	BB	1073	A
26	BB	1078	U
26	BB	1081	U
26	BB	1085	A
26	BB	1087	G
26	BB	1098	A
26	BB	1104	C
26	BB	1109	C
26	BB	1110	G
26	BB	1112	G
26	BB	1123	C
26	BB	1129	A
26	BB	1130	U
26	BB	1132	U
26	BB	1134	A
26	BB	1135	C
26	BB	1142	A
26	BB	1143	A
26	BB	1157	G
26	BB	1158	C
26	BB	1173	U
26	BB	1175	A

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Mol	Chain	Res	Type
26	BB	1177	G
26	BB	1184	U
26	BB	1204	A
26	BB	1211	C
26	BB	1236	G
26	BB	1237	A
26	BB	1238	G
26	BB	1239	G
26	BB	1241	A
26	BB	1253	A
26	BB	1254	A
26	BB	1255	U
26	BB	1256	G
26	BB	1266	G
26	BB	1272	A
26	BB	1273	U
26	BB	1274	A
26	BB	1275	A
26	BB	1283	G
26	BB	1284	A
26	BB	1287	A
26	BB	1288	G
26	BB	1289	C
26	BB	1300	G
26	BB	1301	A
26	BB	1302	A
26	BB	1303	G
26	BB	1307	A
26	BB	1308	A
26	BB	1318	U
26	BB	1321	A
26	BB	1322	A
26	BB	1323	C
26	BB	1329	U
26	BB	1340	U
26	BB	1341	G
26	BB	1349	C
26	BB	1354	A
26	BB	1362	C
26	BB	1363	C
26	BB	1365	A
26	BB	1368	G

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Mol	Chain	Res	Type
26	BB	1378	A
26	BB	1379	U
26	BB	1383	A
26	BB	1385	A
26	BB	1386	C
26	BB	1392	A
26	BB	1395	A
26	BB	1396	U
26	BB	1416	G
26	BB	1417	C
26	BB	1420	A
26	BB	1421	G
26	BB	1453	A
26	BB	1458	U
26	BB	1459	G
26	BB	1460	U
26	BB	1461	C
26	BB	1482	G
26	BB	1509	A
26	BB	1510	G
26	BB	1514	G
26	BB	1515	A
26	BB	1522	A
26	BB	1523	U
26	BB	1524	G
26	BB	1552	A
26	BB	1558	C
26	BB	1565	C
26	BB	1566	A
26	BB	1567	G
26	BB	1578	U
26	BB	1584	U
26	BB	1585	C
26	BB	1607	C
26	BB	1608	A
26	BB	1610	A
26	BB	1612	C
26	BB	1616	A
26	BB	1617	C
26	BB	1619	G
26	BB	1627	G
26	BB	1635	A

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Mol	Chain	Res	Type
26	BB	1636	U
26	BB	1646	C
26	BB	1648	U
26	BB	1669	A
26	BB	1670	C
26	BB	1674	G
26	BB	1676	A
26	BB	1694	C
26	BB	1713	A
26	BB	1714	U
26	BB	1715	G
26	BB	1724	G
26	BB	1739	A
26	BB	1763	G
26	BB	1764	C
26	BB	1773	A
26	BB	1781	U
26	BB	1786	A
26	BB	1787	A
26	BB	1800	C
26	BB	1801	A
26	BB	1808	A
26	BB	1809	A
26	BB	1815	A
26	BB	1816	C
26	BB	1817	G
26	BB	1818	U
26	BB	1825	U
26	BB	1830	C
26	BB	1831	G
26	BB	1833	C
26	BB	1851	U
26	BB	1856	U
26	BB	1873	G
26	BB	1900	A
26	BB	1906	G
26	BB	1912	A
26	BB	1913	A
26	BB	1914	C
26	BB	1918	A
26	BB	1928	A
26	BB	1930	G

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Mol	Chain	Res	Type
26	BB	1937	A
26	BB	1941	C
26	BB	1944	U
26	BB	1945	G
26	BB	1952	A
26	BB	1953	A
26	BB	1955	U
26	BB	1963	U
26	BB	1964	G
26	BB	1965	C
26	BB	1967	C
26	BB	1968	G
26	BB	1970	A
26	BB	1971	U
26	BB	1972	G
26	BB	1982	U
26	BB	1993	U
26	BB	1996	C
26	BB	2004	G
26	BB	2012	G
26	BB	2020	A
26	BB	2021	C
26	BB	2022	U
26	BB	2023	C
26	BB	2031	A
26	BB	2032	G
26	BB	2034	U
26	BB	2040	G
26	BB	2043	C
26	BB	2056	G
26	BB	2059	A
26	BB	2061	G
26	BB	2069	7MG
26	BB	2093	G
26	BB	2095	A
26	BB	2107	G
26	BB	2111	U
26	BB	2112	G
26	BB	2118	U
26	BB	2119	A
26	BB	2120	G
26	BB	2126	A

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Mol	Chain	Res	Type
26	BB	2127	G
26	BB	2128	G
26	BB	2129	C
26	BB	2130	U
26	BB	2131	U
26	BB	2132	U
26	BB	2134	A
26	BB	2137	U
26	BB	2143	C
26	BB	2148	G
26	BB	2154	A
26	BB	2158	A
26	BB	2164	C
26	BB	2173	A
26	BB	2198	A
26	BB	2199	A
26	BB	2204	G
26	BB	2211	A
26	BB	2212	A
26	BB	2213	U
26	BB	2214	C
26	BB	2215	C
26	BB	2224	G
26	BB	2225	A
26	BB	2226	C
26	BB	2237	G
26	BB	2238	G
26	BB	2239	G
26	BB	2246	G
26	BB	2249	U
26	BB	2250	G
26	BB	2266	A
26	BB	2267	A
26	BB	2282	G
26	BB	2283	C
26	BB	2287	A
26	BB	2288	A
26	BB	2306	C
26	BB	2309	A
26	BB	2321	U
26	BB	2322	A
26	BB	2325	G

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Mol	Chain	Res	Type
26	BB	2335	A
26	BB	2340	A
26	BB	2345	G
26	BB	2346	A
26	BB	2347	C
26	BB	2350	C
26	BB	2354	C
26	BB	2358	A
26	BB	2383	G
26	BB	2385	C
26	BB	2389	G
26	BB	2406	A
26	BB	2407	A
26	BB	2411	A
26	BB	2426	A
26	BB	2427	C
26	BB	2428	G
26	BB	2429	G
26	BB	2433	A
26	BB	2435	A
26	BB	2441	U
26	BB	2450	A
26	BB	2451	A
26	BB	2452	C
26	BB	2453	A
26	BB	2472	G
26	BB	2478	A
26	BB	2486	C
26	BB	2491	U
26	BB	2494	G
26	BB	2501	C
26	BB	2502	G
26	BB	2504	PSU
26	BB	2505	G
26	BB	2515	C
26	BB	2516	A
26	BB	2518	A
26	BB	2519	U
26	BB	2530	A
26	BB	2547	A
26	BB	2554	U
26	BB	2566	A

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Mol	Chain	Res	Type
26	BB	2567	G
26	BB	2572	A
26	BB	2573	C
26	BB	2576	G
26	BB	2577	A
26	BB	2586	U
26	BB	2599	G
26	BB	2602	A
26	BB	2603	G
26	BB	2606	C
26	BB	2610	C
26	BB	2611	C
26	BB	2613	U
26	BB	2616	C
26	BB	2628	C
26	BB	2629	U
26	BB	2639	A
26	BB	2654	A
26	BB	2655	G
26	BB	2656	U
26	BB	2660	A
26	BB	2664	G
26	BB	2685	G
26	BB	2689	U
26	BB	2690	U
26	BB	2714	G
26	BB	2737	G
26	BB	2739	U
26	BB	2742	G
26	BB	2744	G
26	BB	2755	C
26	BB	2757	A
26	BB	2765	A
26	BB	2766	A
26	BB	2769	U
26	BB	2771	C
26	BB	2774	C
26	BB	2777	G
26	BB	2778	A
26	BB	2779	U
26	BB	2780	G
26	BB	2782	G

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Mol	Chain	Res	Type
26	BB	2791	G
26	BB	2797	U
26	BB	2800	A
26	BB	2807	U
26	BB	2825	G
26	BB	2832	U
26	BB	2833	U
26	BB	2842	G
26	BB	2849	U
26	BB	2850	A
26	BB	2861	U
26	BB	2864	G
26	BB	2867	G
26	BB	2868	A
26	BB	2879	A
26	BB	2880	C
26	BB	2883	A
26	BB	2886	A
26	BB	2889	C
26	BB	2893	A
26	BB	2895	G
26	BB	2903	U

All (311) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	4	U
1	AA	5	U
1	AA	39	G
1	AA	51	A
1	AA	65	A
1	AA	97	G
1	AA	101	A
1	AA	128	G
1	AA	173	U
1	AA	178	C
1	AA	187	G
1	AA	206	C
1	AA	224	U
1	AA	239	U
1	AA	243	A
1	AA	244	U

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Mol	Chain	Res	Type
1	AA	251	G
1	AA	256	U
1	AA	272	C
1	AA	279	A
1	AA	328	C
1	AA	372	C
1	AA	410	G
1	AA	421	U
1	AA	429	U
1	AA	467	U
1	AA	497	G
1	AA	533	A
1	AA	552	U
1	AA	582	C
1	AA	632	U
1	AA	653	U
1	AA	681	A
1	AA	682	G
1	AA	700	G
1	AA	717	U
1	AA	719	C
1	AA	721	G
1	AA	744	C
1	AA	764	C
1	AA	765	G
1	AA	782	A
1	AA	815	A
1	AA	819	A
1	AA	840	C
1	AA	870	U
1	AA	872	A
1	AA	897	C
1	AA	899	C
1	AA	907	A
1	AA	926	G
1	AA	931	C
1	AA	937	A
1	AA	944	G
1	AA	960	U
1	AA	968	A
1	AA	974	A
1	AA	992	U

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Mol	Chain	Res	Type
1	AA	993	G
1	AA	994	A
1	AA	1014	A
1	AA	1029	U
1	AA	1030	U
1	AA	1101	A
1	AA	1108	G
1	AA	1126	U
1	AA	1167	A
1	AA	1183	U
1	AA	1201	A
1	AA	1211	U
1	AA	1213	A
1	AA	1214	C
1	AA	1226	C
1	AA	1253	G
1	AA	1263	C
1	AA	1278	G
1	AA	1289	A
1	AA	1297	G
1	AA	1302	C
1	AA	1313	U
1	AA	1318	A
1	AA	1346	A
1	AA	1347	G
1	AA	1362	A
1	AA	1369	C
1	AA	1384	C
1	AA	1452	C
1	AA	1491	G
1	AA	1502	A
1	AA	1509	C
1	AA	1512	U
1	AA	1529	G
1	AA	1538	C
2	AB	9	A
2	AB	34	C
2	AB	38	A
2	AB	47	U
2	AB	58	A
2	AB	59	G
2	AB	75	C

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Mol	Chain	Res	Type
3	AC	13	A
3	AC	14	G
3	AC	16	A
3	AC	18	A
3	AC	20	G
3	AC	21	U
3	AC	26	U
3	AC	27	A
3	AC	39	U
3	AC	43	U
3	AC	44	U
3	AC	52	U
3	AC	53	G
3	AC	55	A
4	AD	9	G
4	AD	17	C
4	AD	22	A
4	AD	76	C
25	BA	14	U
25	BA	15	A
25	BA	25	U
25	BA	34	A
25	BA	35	C
25	BA	36	C
25	BA	41	G
25	BA	44	G
25	BA	57	A
25	BA	66	A
25	BA	88	C
25	BA	89	U
25	BA	106	G
26	BB	13	A
26	BB	46	G
26	BB	49	A
26	BB	63	A
26	BB	71	A
26	BB	94	A
26	BB	100	U
26	BB	114	U
26	BB	125	A
26	BB	196	A
26	BB	199	A

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Mol	Chain	Res	Type
26	BB	218	A
26	BB	219	A
26	BB	228	C
26	BB	231	A
26	BB	241	A
26	BB	242	G
26	BB	249	C
26	BB	265	A
26	BB	321	U
26	BB	332	A
26	BB	347	A
26	BB	368	A
26	BB	388	G
26	BB	389	G
26	BB	390	U
26	BB	404	A
26	BB	428	A
26	BB	451	U
26	BB	453	A
26	BB	463	G
26	BB	479	A
26	BB	489	G
26	BB	503	A
26	BB	534	U
26	BB	545	U
26	BB	561	G
26	BB	569	U
26	BB	570	G
26	BB	572	A
26	BB	574	A
26	BB	575	A
26	BB	603	A
26	BB	611	C
26	BB	620	G
26	BB	628	G
26	BB	635	C
26	BB	649	G
26	BB	702	U
26	BB	748	G
26	BB	751	A
26	BB	762	U
26	BB	776	G

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Mol	Chain	Res	Type
26	BB	829	A
26	BB	846	U
26	BB	847	U
26	BB	870	U
26	BB	888	C
26	BB	900	A
26	BB	941	A
26	BB	945	A
26	BB	990	A
26	BB	1012	U
26	BB	1043	C
26	BB	1061	U
26	BB	1069	A
26	BB	1070	A
26	BB	1095	A
26	BB	1129	A
26	BB	1133	A
26	BB	1134	A
26	BB	1142	A
26	BB	1157	G
26	BB	1210	G
26	BB	1211	C
26	BB	1239	G
26	BB	1240	U
26	BB	1248	G
26	BB	1254	A
26	BB	1272	A
26	BB	1274	A
26	BB	1288	G
26	BB	1300	G
26	BB	1329	U
26	BB	1348	C
26	BB	1351	C
26	BB	1386	C
26	BB	1391	U
26	BB	1392	A
26	BB	1395	A
26	BB	1451	C
26	BB	1460	U
26	BB	1509	A
26	BB	1567	G
26	BB	1608	A

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Mol	Chain	Res	Type
26	BB	1609	A
26	BB	1626	A
26	BB	1634	A
26	BB	1649	G
26	BB	1693	U
26	BB	1697	G
26	BB	1699	G
26	BB	1701	A
26	BB	1715	G
26	BB	1723	G
26	BB	1778	U
26	BB	1784	A
26	BB	1786	A
26	BB	1816	C
26	BB	1862	G
26	BB	1901	A
26	BB	1912	A
26	BB	1927	A
26	BB	1939	5MU
26	BB	1940	U
26	BB	1944	U
26	BB	1952	A
26	BB	1955	U
26	BB	2019	A
26	BB	2031	A
26	BB	2060	A
26	BB	2068	U
26	BB	2079	U
26	BB	2092	U
26	BB	2098	U
26	BB	2106	U
26	BB	2113	U
26	BB	2118	U
26	BB	2125	G
26	BB	2129	C
26	BB	2130	U
26	BB	2159	G
26	BB	2173	A
26	BB	2194	U
26	BB	2198	A
26	BB	2223	G
26	BB	2225	A

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Mol	Chain	Res	Type
26	BB	2236	U
26	BB	2238	G
26	BB	2249	U
26	BB	2264	C
26	BB	2282	G
26	BB	2287	A
26	BB	2385	C
26	BB	2425	A
26	BB	2426	A
26	BB	2427	C
26	BB	2429	G
26	BB	2432	A
26	BB	2434	A
26	BB	2440	C
26	BB	2441	U
26	BB	2468	A
26	BB	2485	G
26	BB	2491	U
26	BB	2500	U
26	BB	2515	C
26	BB	2555	U
26	BB	2571	U
26	BB	2581	G
26	BB	2586	U
26	BB	2587	A
26	BB	2602	A
26	BB	2610	C
26	BB	2613	U
26	BB	2615	U
26	BB	2628	C
26	BB	2655	G
26	BB	2663	G
26	BB	2756	U
26	BB	2771	C
26	BB	2777	G
26	BB	2780	G
26	BB	2791	G
26	BB	2802	G
26	BB	2806	C
26	BB	2835	A
26	BB	2842	G
26	BB	2867	G

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Mol	Chain	Res	Type
26	BB	2879	A

5.4 Non-standard residues in protein, DNA, RNA chains (i)

49 non-standard protein/DNA/RNA residues are modelled in this entry.

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	$\#\|Z\| > 2$
2	MIA	AB	37	2	24,31,32	1.68	3 (12%)	26,44,47	3.01	9 (34%)
26	5MU	BB	1939	26	19,22,23	1.43	4 (21%)	28,32,35	2.03	11 (39%)
4	PSU	AD	56	4	18,21,22	1.81	6 (33%)	22,30,33	1.33	3 (13%)
1	UR3	AA	1498	1	19,22,23	1.12	1 (5%)	26,32,35	1.55	6 (23%)
1	4OC	AA	1402	-	20,23,24	1.32	3 (15%)	26,32,35	1.45	4 (15%)
1	MA6	AA	1518	1	18,26,27	1.84	5 (27%)	19,38,41	1.83	4 (21%)
26	OMU	BB	2552	26	19,22,23	1.50	4 (21%)	26,31,34	2.10	8 (30%)
2	7MG	AB	46	2	22,26,27	4.77	5 (22%)	29,39,42	1.93	7 (24%)
1	2MG	AA	1207	1	18,26,27	1.84	2 (11%)	16,38,41	1.37	1 (6%)
26	H2U	BB	2449	26	18,21,22	1.61	3 (16%)	21,30,33	1.77	4 (19%)
1	7MG	AA	527	1	22,26,27	4.13	6 (27%)	29,39,42	2.04	6 (20%)
26	6MZ	BB	2030	26	18,25,26	1.03	1 (5%)	16,36,39	1.54	3 (18%)
4	H2U	AD	21	4	18,21,22	1.38	3 (16%)	21,30,33	2.19	5 (23%)
4	4SU	AD	8	4	18,21,22	1.76	4 (22%)	26,30,33	2.03	7 (26%)
26	CH	BB	2575	26	16,21,22	1.54	3 (18%)	20,30,33	2.28	7 (35%)
26	3TD	BB	1915	26	18,22,23	1.84	6 (33%)	22,32,35	1.17	0
1	5MC	AA	967	1	18,22,23	1.32	2 (11%)	26,32,35	1.20	1 (3%)
26	PSU	BB	2457	26	18,21,22	1.12	2 (11%)	22,30,33	2.40	9 (40%)
26	1MG	BB	745	26	18,26,27	1.84	3 (16%)	19,39,42	1.81	6 (31%)
26	2MG	BB	2445	26	18,26,27	2.20	6 (33%)	16,38,41	2.89	5 (31%)
26	5MC	BB	1962	26	18,22,23	1.70	6 (33%)	26,32,35	1.66	6 (23%)
26	PSU	BB	2504	26	18,21,22	1.38	3 (16%)	22,30,33	1.87	7 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	H2U	AB	17	2	18,21,22	1.35	3 (16%)	21,30,33	2.11	3 (14%)
26	PSU	BB	955	26	18,21,22	1.70	3 (16%)	22,30,33	1.37	3 (13%)
26	PSU	BB	2605	26	18,21,22	1.67	4 (22%)	22,30,33	1.75	3 (13%)
26	OMC	BB	2498	26	19,22,23	1.19	2 (10%)	26,31,34	1.34	3 (11%)
4	OMC	AD	33	4	19,22,23	1.46	3 (15%)	26,31,34	1.38	5 (19%)
26	PSU	BB	746	26	18,21,22	2.32	8 (44%)	22,30,33	2.14	8 (36%)
26	PSU	BB	1911	26	18,21,22	1.54	4 (22%)	22,30,33	2.16	3 (13%)
4	5MU	AD	55	4	19,22,23	1.33	4 (21%)	28,32,35	2.14	6 (21%)
26	7MG	BB	2069	26	22,26,27	4.26	4 (18%)	29,39,42	1.87	7 (24%)
26	PSU	BB	2580	26	18,21,22	1.49	2 (11%)	22,30,33	1.75	9 (40%)
2	4SU	AB	8	2	18,21,22	1.71	2 (11%)	26,30,33	1.95	5 (19%)
26	OMG	BB	2251	26	18,26,27	1.53	4 (22%)	19,38,41	1.54	2 (10%)
1	5MC	AA	1407	1	18,22,23	1.44	2 (11%)	26,32,35	1.96	5 (19%)
2	H2U	AB	16	2	18,21,22	1.42	1 (5%)	21,30,33	1.89	7 (33%)
1	2MG	AA	1516	1	18,26,27	2.19	8 (44%)	16,38,41	1.27	3 (18%)
2	H2U	AB	20	2	18,21,22	1.49	3 (16%)	21,30,33	1.55	4 (19%)
26	5MU	BB	747	26	19,22,23	1.17	1 (5%)	28,32,35	1.62	7 (25%)
26	6MZ	BB	1618	26	18,25,26	1.85	4 (22%)	16,36,39	2.35	4 (25%)
26	2MG	BB	1835	26	18,26,27	1.59	3 (16%)	16,38,41	1.97	5 (31%)
1	2MG	AA	966	1	18,26,27	1.34	3 (16%)	16,38,41	2.60	5 (31%)
1	MA6	AA	1519	1	18,26,27	1.54	3 (16%)	19,38,41	1.79	8 (42%)
2	PSU	AB	55	2	18,21,22	1.49	3 (16%)	22,30,33	2.26	7 (31%)
26	2MA	BB	2503	26	17,25,26	2.08	7 (41%)	17,37,40	1.27	1 (5%)
2	5MU	AB	54	2	19,22,23	0.95	1 (5%)	28,32,35	1.49	6 (21%)
2	OMC	AB	32	2	19,22,23	1.49	4 (21%)	26,31,34	1.62	5 (19%)
1	PSU	AA	516	1	18,21,22	1.39	3 (16%)	22,30,33	2.88	7 (31%)
26	PSU	BB	1917	26	18,21,22	1.45	3 (16%)	22,30,33	1.53	4 (18%)

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
2	MIA	AB	37	2	-	0/11/33/34	0/3/3/3
26	5MU	BB	1939	26	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	PSU	AD	56	4	-	0/7/25/26	0/2/2/2
1	UR3	AA	1498	1	-	2/7/25/26	0/2/2/2
1	4OC	AA	1402	-	-	0/9/29/30	0/2/2/2
1	MA6	AA	1518	1	-	2/7/29/30	0/3/3/3
26	OMU	BB	2552	26	-	0/9/27/28	0/2/2/2
2	7MG	AB	46	2	-	3/7/37/38	0/3/3/3
1	2MG	AA	1207	1	-	1/5/27/28	0/3/3/3
26	H2U	BB	2449	26	-	2/7/38/39	0/2/2/2
1	7MG	AA	527	1	-	2/7/37/38	0/3/3/3
26	6MZ	BB	2030	26	-	2/5/27/28	0/3/3/3
4	H2U	AD	21	4	-	0/7/38/39	0/2/2/2
4	4SU	AD	8	4	-	0/7/25/26	0/2/2/2
26	CH	BB	2575	26	-	0/5/25/26	0/2/2/2
26	3TD	BB	1915	26	-	2/7/25/26	0/2/2/2
1	5MC	AA	967	1	-	0/7/25/26	0/2/2/2
26	PSU	BB	2457	26	-	0/7/25/26	0/2/2/2
26	1MG	BB	745	26	-	0/3/25/26	0/3/3/3
26	2MG	BB	2445	26	-	0/5/27/28	0/3/3/3
26	5MC	BB	1962	26	-	1/7/25/26	0/2/2/2
26	PSU	BB	2504	26	-	0/7/25/26	0/2/2/2
2	H2U	AB	17	2	-	1/7/38/39	0/2/2/2
26	PSU	BB	955	26	-	0/7/25/26	0/2/2/2
26	PSU	BB	2605	26	-	0/7/25/26	0/2/2/2
26	OMC	BB	2498	26	-	0/9/27/28	0/2/2/2
4	OMC	AD	33	4	-	0/9/27/28	0/2/2/2
26	PSU	BB	746	26	-	0/7/25/26	0/2/2/2
26	PSU	BB	1911	26	-	1/7/25/26	0/2/2/2
4	5MU	AD	55	4	-	0/7/25/26	0/2/2/2
26	7MG	BB	2069	26	-	0/7/37/38	0/3/3/3
26	PSU	BB	2580	26	-	5/7/25/26	0/2/2/2
2	4SU	AB	8	2	-	5/7/25/26	0/2/2/2
26	OMG	BB	2251	26	-	0/5/27/28	0/3/3/3
1	5MC	AA	1407	1	-	0/7/25/26	0/2/2/2
2	H2U	AB	16	2	-	0/7/38/39	0/2/2/2
1	2MG	AA	1516	1	-	0/5/27/28	0/3/3/3
2	H2U	AB	20	2	-	0/7/38/39	0/2/2/2
26	5MU	BB	747	26	-	0/7/25/26	0/2/2/2
26	6MZ	BB	1618	26	-	1/5/27/28	0/3/3/3
26	2MG	BB	1835	26	-	0/5/27/28	0/3/3/3
1	2MG	AA	966	1	-	0/5/27/28	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MA6	AA	1519	1	-	0/7/29/30	0/3/3/3
2	PSU	AB	55	2	-	1/7/25/26	0/2/2/2
26	2MA	BB	2503	26	-	0/3/25/26	0/3/3/3
2	5MU	AB	54	2	-	1/7/25/26	0/2/2/2
2	OMC	AB	32	2	-	0/9/27/28	0/2/2/2
1	PSU	AA	516	1	-	0/7/25/26	0/2/2/2
26	PSU	BB	1917	26	-	3/7/25/26	0/2/2/2

All (173) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	46	7MG	C8-N9	-20.90	1.34	1.46
26	BB	2069	7MG	C8-N9	-18.88	1.35	1.46
1	AA	527	7MG	C8-N9	-18.03	1.35	1.46
26	BB	955	PSU	C2-N1	6.15	1.45	1.36
26	BB	745	1MG	C8-N7	-6.03	1.24	1.35
26	BB	2445	2MG	C8-N7	-5.30	1.26	1.35
26	BB	746	PSU	C2-N1	5.16	1.43	1.36
2	AB	8	4SU	C5-C4	-4.90	1.36	1.42
26	BB	2503	2MA	C8-N7	-4.87	1.26	1.35
1	AA	1516	2MG	CM2-N2	4.85	1.54	1.45
1	AA	1207	2MG	C2-N1	4.64	1.44	1.36
2	AB	16	H2U	C2-N3	-4.53	1.29	1.38
2	AB	37	MIA	C2-S10	4.50	1.79	1.75
26	BB	1618	6MZ	C6-N1	4.49	1.40	1.34
1	AA	1207	2MG	C8-N7	-4.32	1.27	1.35
4	AD	8	4SU	C5-C4	-4.17	1.37	1.42
26	BB	2449	H2U	C2-N1	3.98	1.41	1.35
26	BB	2445	2MG	O4'-C1'	3.97	1.46	1.41
26	BB	1939	5MU	O4'-C1'	3.81	1.51	1.42
26	BB	2552	OMU	O5'-C5'	-3.74	1.35	1.44
4	AD	33	OMC	O4'-C4'	-3.65	1.36	1.45
1	AA	1516	2MG	C5-C6	-3.64	1.40	1.47
2	AB	46	7MG	O4'-C4'	-3.61	1.36	1.45
1	AA	1407	5MC	O4'-C4'	-3.60	1.37	1.45
26	BB	2503	2MA	C6-N1	-3.59	1.30	1.38
26	BB	1915	3TD	C6-N1	3.58	1.42	1.36
2	AB	37	MIA	C8-N7	-3.58	1.28	1.34
26	BB	2605	PSU	C6-N1	3.56	1.42	1.36
26	BB	2251	OMG	C8-N7	-3.56	1.29	1.35
26	BB	1962	5MC	O5'-C5'	-3.54	1.36	1.44
1	AA	1519	MA6	C8-N7	-3.47	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	56	PSU	O4'-C4'	-3.45	1.37	1.45
2	AB	37	MIA	C5'-C4'	3.43	1.62	1.51
26	BB	2580	PSU	O4'-C1'	-3.43	1.39	1.43
4	AD	8	4SU	O4'-C4'	-3.40	1.37	1.45
26	BB	1915	3TD	C10-N3	3.40	1.53	1.47
26	BB	1618	6MZ	C2-N3	3.38	1.37	1.32
26	BB	2575	CH	C4-N3	3.37	1.41	1.37
4	AD	56	PSU	C2-N3	3.36	1.43	1.37
26	BB	2575	CH	C5-C4	3.36	1.44	1.39
26	BB	746	PSU	C3'-C2'	3.35	1.62	1.53
2	AB	46	7MG	C4-N3	3.32	1.42	1.34
1	AA	1516	2MG	C2-N1	3.29	1.42	1.36
26	BB	746	PSU	C6-C5	3.28	1.39	1.35
26	BB	746	PSU	O2'-C2'	-3.27	1.35	1.43
1	AA	1518	MA6	C4-N3	3.22	1.40	1.35
26	BB	1911	PSU	C4-N3	3.22	1.44	1.38
26	BB	747	5MU	O2'-C2'	-3.20	1.35	1.43
1	AA	527	7MG	O6-C6	-3.18	1.17	1.23
1	AA	1498	UR3	C2-N1	3.18	1.43	1.38
1	AA	1518	MA6	C2'-C1'	-3.14	1.49	1.53
1	AA	1519	MA6	C6-N1	3.14	1.37	1.33
26	BB	2503	2MA	C2'-C1'	3.12	1.58	1.53
2	AB	46	7MG	C5-N7	3.11	1.39	1.35
1	AA	516	PSU	C6-C5	3.10	1.38	1.35
26	BB	746	PSU	C5'-C4'	3.10	1.61	1.51
2	AB	55	PSU	C2-N1	3.07	1.40	1.36
26	BB	1618	6MZ	O4'-C4'	-3.07	1.38	1.45
4	AD	8	4SU	O4'-C1'	3.06	1.49	1.42
2	AB	32	OMC	C2-N3	3.05	1.42	1.36
2	AB	20	H2U	C5-C4	3.02	1.57	1.50
1	AA	527	7MG	C4-N9	-3.02	1.34	1.37
1	AA	1518	MA6	C8-N7	-3.02	1.29	1.34
26	BB	2552	OMU	C5'-C4'	3.01	1.61	1.51
26	BB	1962	5MC	O3'-C3'	-2.97	1.36	1.43
2	AB	32	OMC	C2'-C1'	2.96	1.60	1.53
2	AB	20	H2U	C1'-N1	-2.93	1.41	1.46
4	AD	56	PSU	O5'-C5'	-2.93	1.37	1.44
1	AA	1519	MA6	O4'-C1'	2.93	1.45	1.41
26	BB	2251	OMG	O4'-C1'	2.89	1.45	1.41
26	BB	2605	PSU	C2'-C1'	2.89	1.57	1.53
2	AB	32	OMC	C3'-C2'	2.88	1.59	1.52
2	AB	20	H2U	C4-N3	-2.87	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2457	PSU	C2-N1	2.87	1.40	1.36
1	AA	966	2MG	CM2-N2	2.87	1.50	1.45
4	AD	56	PSU	C2'-C1'	-2.86	1.50	1.53
26	BB	2498	OMC	C5'-C4'	2.85	1.60	1.51
26	BB	2445	2MG	C5-C6	-2.84	1.41	1.47
26	BB	1835	2MG	O4'-C1'	2.81	1.45	1.41
26	BB	1835	2MG	O3'-C3'	2.81	1.49	1.43
26	BB	1962	5MC	C6-N1	-2.79	1.33	1.38
1	AA	1516	2MG	C6-N1	2.78	1.42	1.37
26	BB	1915	3TD	C2-N1	2.78	1.40	1.37
26	BB	1911	PSU	C2-N1	2.77	1.40	1.36
26	BB	2069	7MG	C5'-C4'	2.76	1.60	1.51
2	AB	17	H2U	C6-N1	-2.75	1.42	1.47
26	BB	1917	PSU	C4-N3	2.75	1.43	1.38
4	AD	55	5MU	O4'-C1'	-2.74	1.35	1.42
26	BB	2449	H2U	C6-N1	-2.74	1.42	1.47
1	AA	967	5MC	C4-N3	2.73	1.38	1.34
26	BB	2445	2MG	C5-C4	-2.73	1.36	1.43
26	BB	2504	PSU	O4'-C4'	-2.71	1.38	1.45
26	BB	1939	5MU	C3'-C4'	2.71	1.59	1.53
26	BB	2030	6MZ	C8-N7	-2.70	1.29	1.34
1	AA	1516	2MG	C5'-C4'	2.70	1.60	1.51
26	BB	1917	PSU	C2-N1	2.70	1.40	1.36
26	BB	1618	6MZ	O4'-C1'	2.67	1.44	1.41
26	BB	2445	2MG	C2'-C3'	2.66	1.60	1.53
26	BB	2449	H2U	C1'-N1	2.65	1.51	1.46
4	AD	56	PSU	C1'-C5	2.62	1.56	1.50
4	AD	21	H2U	C2-N1	2.61	1.39	1.35
2	AB	55	PSU	O5'-C5'	-2.60	1.38	1.44
26	BB	2552	OMU	O4'-C4'	-2.60	1.39	1.45
1	AA	1402	4OC	C4-N3	2.60	1.37	1.32
26	BB	746	PSU	O5'-C5'	-2.59	1.38	1.44
1	AA	516	PSU	O4-C4	2.59	1.28	1.23
1	AA	1518	MA6	C3'-C4'	2.57	1.59	1.53
1	AA	527	7MG	C6-N1	-2.56	1.34	1.38
26	BB	746	PSU	C6-N1	2.55	1.40	1.36
4	AD	55	5MU	C4-N3	-2.50	1.34	1.38
4	AD	8	4SU	C1'-N1	2.48	1.54	1.47
26	BB	2580	PSU	C4-C5	2.48	1.51	1.44
4	AD	21	H2U	O3'-C3'	-2.47	1.37	1.43
1	AA	527	7MG	C1'-N9	2.46	1.51	1.46
26	BB	1917	PSU	O4'-C1'	-2.45	1.40	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1915	3TD	C1'-C5	2.44	1.55	1.50
26	BB	2445	2MG	O5'-C5'	-2.44	1.38	1.44
26	BB	2504	PSU	O3'-C3'	-2.40	1.37	1.43
26	BB	2605	PSU	C4-N3	-2.40	1.34	1.38
1	AA	967	5MC	CM5-C5	2.39	1.56	1.50
26	BB	2552	OMU	C3'-C2'	-2.39	1.47	1.52
26	BB	745	1MG	O5'-C5'	-2.38	1.38	1.44
26	BB	2503	2MA	O5'-C5'	-2.38	1.38	1.44
26	BB	1939	5MU	C4-C5	2.37	1.48	1.44
26	BB	745	1MG	O2'-C2'	-2.35	1.37	1.43
26	BB	1911	PSU	C6-C5	2.34	1.38	1.35
1	AA	1402	4OC	O5'-C5'	-2.31	1.39	1.44
1	AA	1518	MA6	C6-N1	2.31	1.36	1.33
26	BB	1835	2MG	CM2-N2	2.29	1.49	1.45
1	AA	516	PSU	C3'-C4'	2.29	1.58	1.53
26	BB	1915	3TD	C2-N3	2.29	1.43	1.38
4	AD	33	OMC	C1'-N1	2.29	1.54	1.47
26	BB	2069	7MG	C4-N9	-2.29	1.35	1.37
2	AB	54	5MU	O4'-C4'	-2.28	1.39	1.45
26	BB	2069	7MG	O6-C6	2.28	1.27	1.23
1	AA	527	7MG	C4-N3	2.27	1.39	1.34
26	BB	1911	PSU	O5'-C5'	-2.27	1.39	1.44
26	BB	2503	2MA	C5-C4	-2.26	1.37	1.43
26	BB	2605	PSU	O4'-C1'	-2.25	1.40	1.43
26	BB	2498	OMC	C3'-C4'	-2.24	1.47	1.53
26	BB	955	PSU	C1'-C5	2.23	1.55	1.50
4	AD	55	5MU	C6-N1	2.23	1.41	1.38
26	BB	955	PSU	O4'-C4'	-2.21	1.40	1.45
26	BB	1962	5MC	O4'-C4'	-2.21	1.40	1.45
1	AA	966	2MG	C5-C6	-2.20	1.42	1.47
26	BB	2251	OMG	O4'-C4'	-2.18	1.40	1.45
4	AD	21	H2U	C2'-C3'	2.18	1.59	1.53
2	AB	55	PSU	C2'-C1'	2.18	1.56	1.53
2	AB	8	4SU	C1'-N1	2.17	1.53	1.47
2	AB	17	H2U	C2'-C3'	-2.16	1.47	1.53
26	BB	2575	CH	C2'-C1'	-2.15	1.50	1.53
1	AA	1516	2MG	O4'-C4'	-2.14	1.40	1.45
26	BB	2251	OMG	C5'-C4'	2.14	1.58	1.51
4	AD	33	OMC	C6-N1	-2.14	1.32	1.38
1	AA	1407	5MC	C5'-C4'	2.13	1.58	1.51
1	AA	1516	2MG	C2-N2	2.11	1.38	1.33
1	AA	966	2MG	C2-N2	2.09	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1962	5MC	O4'-C1'	-2.09	1.37	1.42
26	BB	1962	5MC	C6-C5	2.09	1.38	1.34
1	AA	1516	2MG	C5-C4	-2.09	1.37	1.43
2	AB	17	H2U	C2-N3	-2.09	1.34	1.38
26	BB	1939	5MU	C2-N1	2.09	1.41	1.38
26	BB	2457	PSU	O4'-C4'	2.09	1.49	1.45
4	AD	55	5MU	O4-C4	-2.08	1.19	1.23
2	AB	46	7MG	C4-N9	2.06	1.40	1.37
26	BB	746	PSU	O4'-C1'	2.05	1.46	1.43
26	BB	2503	2MA	C6-N6	2.04	1.36	1.28
2	AB	32	OMC	O4'-C4'	-2.04	1.40	1.45
26	BB	2504	PSU	O4'-C1'	-2.02	1.41	1.43
1	AA	1402	4OC	O2'-C2'	2.02	1.47	1.42
4	AD	56	PSU	O2-C2	-2.02	1.19	1.23
26	BB	2503	2MA	O4'-C1'	-2.01	1.38	1.41
26	BB	1915	3TD	C2'-C1'	-2.00	1.51	1.53

All (254) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	37	MIA	C11-S10-C2	12.41	111.53	102.27
26	BB	2445	2MG	O6-C6-N1	-8.97	110.06	120.65
2	AB	17	H2U	O4'-C1'-N1	8.59	121.00	109.30
1	AA	516	PSU	C6-C5-C4	8.47	124.12	118.20
26	BB	1911	PSU	C6-C5-C4	8.33	124.02	118.20
26	BB	1618	6MZ	C9-N6-C6	7.48	129.31	122.87
2	AB	46	7MG	N9-C8-N7	6.92	113.28	103.38
26	BB	2552	OMU	C6-C5-C4	6.36	128.21	119.52
1	AA	966	2MG	O6-C6-N1	-6.23	113.29	120.65
1	AA	966	2MG	O6-C6-C5	5.87	135.83	124.37
26	BB	2605	PSU	C6-N1-C2	-5.79	116.76	122.68
1	AA	1407	5MC	C5-C6-N1	-5.69	117.48	123.34
4	AD	8	4SU	S4-C4-N3	5.59	125.71	120.21
1	AA	516	PSU	O2-C2-N1	-5.52	116.71	122.79
26	BB	2575	CH	C5-C4-N4	-5.50	118.53	123.88
4	AD	55	5MU	O4'-C1'-N1	5.49	120.91	108.36
2	AB	8	4SU	C4-N3-C2	-5.49	122.01	127.34
26	BB	2457	PSU	C6-C5-C4	5.43	121.99	118.20
1	AA	527	7MG	N9-C8-N7	5.42	111.13	103.38
4	AD	21	H2U	O4'-C1'-N1	5.39	116.65	109.30
2	AB	55	PSU	C6-C5-C4	5.20	121.84	118.20
26	BB	2069	7MG	N9-C8-N7	5.12	110.70	103.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1939	5MU	O4'-C4'-C5'	4.76	125.05	109.37
4	AD	21	H2U	C5-C4-N3	-4.74	111.32	116.65
4	AD	55	5MU	C2'-C3'-C4'	-4.64	93.62	102.64
26	BB	2457	PSU	C6-N1-C2	-4.57	118.01	122.68
26	BB	2575	CH	C4'-O4'-C1'	-4.50	105.57	109.85
1	AA	1518	MA6	N1-C6-N6	4.43	121.72	117.06
26	BB	747	5MU	C6-C5-C4	4.37	121.68	118.03
2	AB	8	4SU	C5-C4-N3	4.36	118.73	114.69
2	AB	55	PSU	C6-N1-C2	4.30	127.08	122.68
26	BB	2457	PSU	N1-C2-N3	4.28	119.98	115.13
4	AD	55	5MU	C5-C6-N1	-4.28	118.94	123.34
2	AB	55	PSU	N1-C2-N3	-4.18	110.40	115.13
4	AD	8	4SU	C5-C4-S4	-4.17	119.09	124.47
2	AB	55	PSU	C5-C6-N1	-4.11	115.95	122.11
26	BB	746	PSU	C6-C5-C4	4.09	121.06	118.20
26	BB	2445	2MG	O6-C6-C5	4.08	132.34	124.37
2	AB	16	H2U	O4-C4-N3	4.06	126.72	120.28
26	BB	2504	PSU	C6-N1-C2	4.05	126.82	122.68
4	AD	8	4SU	C6-C5-C4	3.97	123.39	119.95
26	BB	2449	H2U	C4-N3-C2	3.97	129.08	125.79
1	AA	516	PSU	C5-C6-N1	-3.96	116.18	122.11
26	BB	2552	OMU	C5-C6-N1	-3.96	115.18	121.81
2	AB	20	H2U	C4-N3-C2	3.94	129.06	125.79
26	BB	2069	7MG	O4'-C1'-N9	-3.93	103.94	109.30
26	BB	2504	PSU	O2-C2-N1	-3.92	118.47	122.79
26	BB	746	PSU	C6-N1-C2	3.91	126.68	122.68
4	AD	21	H2U	O4-C4-N3	3.91	126.47	120.28
26	BB	1917	PSU	C6-C5-C4	3.90	120.92	118.20
26	BB	2449	H2U	O3'-C3'-C4'	-3.88	99.83	111.05
2	AB	8	4SU	S4-C4-N3	-3.87	116.40	120.21
26	BB	1962	5MC	C5-C6-N1	-3.87	119.36	123.34
2	AB	37	MIA	C5-C6-N1	-3.86	117.61	120.81
2	AB	32	OMC	O3'-C3'-C2'	3.83	122.05	111.17
2	AB	20	H2U	N3-C2-N1	-3.69	112.76	116.65
26	BB	745	1MG	C3'-C2'-C1'	3.64	106.46	100.98
2	AB	16	H2U	C2'-C3'-C4'	-3.61	95.63	102.64
26	BB	2445	2MG	C2'-C3'-C4'	-3.59	95.66	102.64
4	AD	55	5MU	C5M-C5-C6	-3.59	118.05	122.85
1	AA	527	7MG	C2-N1-C6	-3.56	118.60	125.10
2	AB	32	OMC	O2-C2-N3	-3.55	116.56	122.33
4	AD	55	5MU	C6-C5-C4	3.53	120.98	118.03
2	AB	46	7MG	O5'-C5'-C4'	3.52	120.96	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2251	OMG	O3'-C3'-C4'	3.52	121.22	111.05
1	AA	527	7MG	O4'-C1'-N9	-3.51	104.51	109.30
26	BB	1939	5MU	C4-N3-C2	-3.49	122.84	127.35
1	AA	1498	UR3	C6-N1-C2	-3.45	118.70	121.79
2	AB	55	PSU	O2-C2-N1	3.38	126.51	122.79
4	AD	8	4SU	O4'-C1'-N1	3.38	116.08	108.36
1	AA	516	PSU	O4-C4-N3	-3.37	113.65	120.12
26	BB	1835	2MG	O6-C6-C5	3.37	130.96	124.37
1	AA	1407	5MC	CM5-C5-C6	-3.35	118.37	122.85
26	BB	746	PSU	C5-C6-N1	-3.34	117.11	122.11
1	AA	1518	MA6	C4-C5-N7	-3.32	105.94	109.40
2	AB	54	5MU	C4-N3-C2	-3.32	123.06	127.35
26	BB	2504	PSU	O2-C2-N3	3.31	128.05	121.82
26	BB	2457	PSU	O2-C2-N3	-3.31	115.58	121.82
4	AD	33	OMC	O2-C2-N3	-3.30	116.96	122.33
1	AA	967	5MC	O4'-C4'-C5'	3.30	120.23	109.37
26	BB	1939	5MU	C6-C5-C4	3.28	120.78	118.03
26	BB	2498	OMC	O2'-C2'-C1'	3.28	115.48	109.08
26	BB	1911	PSU	C5-C6-N1	-3.26	117.22	122.11
4	AD	21	H2U	O4'-C4'-C3'	-3.26	98.67	105.11
26	BB	2457	PSU	O2'-C2'-C1'	-3.24	103.50	111.23
1	AA	1402	4OC	CM4-N4-C4	3.24	128.78	122.45
2	AB	32	OMC	O4'-C4'-C3'	3.23	111.50	105.11
26	BB	2069	7MG	C2-N3-C4	3.22	118.04	112.30
1	AA	1519	MA6	C3'-C2'-C1'	3.21	105.82	100.98
26	BB	1835	2MG	C2'-C3'-C4'	-3.21	96.40	102.64
26	BB	2030	6MZ	O4'-C1'-C2'	-3.20	102.24	106.93
26	BB	746	PSU	C2'-C3'-C4'	-3.20	96.42	102.64
26	BB	746	PSU	O2-C2-N1	3.20	126.31	122.79
26	BB	1962	5MC	CM5-C5-C6	-3.19	118.58	122.85
26	BB	2575	CH	O4'-C1'-C2'	3.19	111.59	106.93
1	AA	527	7MG	N1-C2-N3	3.18	129.26	123.32
26	BB	2457	PSU	C3'-C2'-C1'	3.17	105.33	101.64
1	AA	516	PSU	O4-C4-C5	3.17	132.35	124.05
2	AB	37	MIA	C12-N6-C6	3.16	127.22	122.55
1	AA	1407	5MC	C5-C4-N4	-3.13	116.79	121.48
1	AA	516	PSU	O5'-C5'-C4'	3.11	119.58	108.99
26	BB	1962	5MC	O4'-C1'-N1	3.08	115.40	108.36
26	BB	747	5MU	C2'-C3'-C4'	-3.08	96.66	102.64
1	AA	1498	UR3	C1'-N1-C2	3.06	122.16	116.99
2	AB	46	7MG	O3'-C3'-C2'	3.06	121.72	111.82
26	BB	1835	2MG	O4'-C4'-C3'	3.03	111.12	105.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	516	PSU	O2'-C2'-C1'	-3.03	104.01	111.23
26	BB	2575	CH	C3'-C2'-C1'	-3.01	96.45	100.98
26	BB	2251	OMG	N2-C2-N3	3.00	125.59	119.74
1	AA	527	7MG	O3'-C3'-C4'	3.00	119.72	111.05
26	BB	955	PSU	N1-C2-N3	-2.99	111.75	115.13
1	AA	527	7MG	O4'-C4'-C3'	2.97	111.00	105.11
1	AA	1207	2MG	O2'-C2'-C3'	2.97	121.42	111.82
26	BB	1835	2MG	O6-C6-N1	-2.92	117.20	120.65
26	BB	2069	7MG	C5'-C4'-C3'	-2.92	104.23	115.18
2	AB	32	OMC	C2'-C3'-C4'	-2.91	95.68	101.99
26	BB	1939	5MU	C5-C6-N1	-2.88	120.37	123.34
26	BB	2580	PSU	O4-C4-N3	-2.87	114.61	120.12
26	BB	745	1MG	O4'-C1'-C2'	-2.86	102.75	106.93
2	AB	55	PSU	O4'-C1'-C2'	2.85	109.16	105.14
2	AB	16	H2U	C5-C4-N3	-2.85	113.45	116.65
2	AB	37	MIA	C4-C5-N7	-2.84	106.44	109.40
1	AA	1498	UR3	O3'-C3'-C4'	2.83	119.25	111.05
26	BB	2552	OMU	O4-C4-N3	2.81	123.44	119.31
26	BB	2504	PSU	C6-C5-C4	2.81	120.16	118.20
26	BB	2498	OMC	C3'-C2'-C1'	-2.81	97.61	102.89
26	BB	2503	2MA	O4'-C4'-C5'	2.80	118.59	109.37
26	BB	746	PSU	O3'-C3'-C4'	2.80	119.14	111.05
26	BB	1618	6MZ	O4'-C1'-C2'	-2.79	102.84	106.93
26	BB	2445	2MG	C8-N7-C5	2.78	108.28	102.99
26	BB	746	PSU	C3'-C2'-C1'	2.77	104.86	101.64
26	BB	2552	OMU	N3-C2-N1	2.77	118.57	114.89
1	AA	1402	4OC	C5-C4-N4	-2.76	116.98	122.61
26	BB	2552	OMU	O4'-C1'-N1	2.76	114.66	108.36
26	BB	2552	OMU	O5'-C5'-C4'	2.75	118.34	108.99
26	BB	1939	5MU	O2-C2-N3	-2.74	116.41	121.50
26	BB	2580	PSU	O4-C4-C5	2.73	131.21	124.05
26	BB	745	1MG	C2-N1-C6	2.73	123.16	120.95
1	AA	1519	MA6	O3'-C3'-C4'	2.72	118.91	111.05
4	AD	33	OMC	O2'-C2'-C1'	2.72	114.38	109.08
26	BB	1939	5MU	O4'-C1'-C2'	-2.69	100.78	106.64
1	AA	1519	MA6	N3-C2-N1	-2.69	124.48	128.68
26	BB	746	PSU	N1-C2-N3	-2.67	112.10	115.13
2	AB	16	H2U	O3'-C3'-C4'	2.67	118.76	111.05
26	BB	2457	PSU	C4-N3-C2	-2.66	122.51	126.34
26	BB	745	1MG	C5-C6-N1	-2.65	109.92	113.90
4	AD	8	4SU	O2'-C2'-C1'	2.62	118.79	110.02
1	AA	1518	MA6	N3-C2-N1	-2.60	124.61	128.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2457	PSU	O3'-C3'-C2'	2.60	120.23	111.82
2	AB	17	H2U	O5'-C5'-C4'	2.59	117.79	108.99
26	BB	955	PSU	C6-C5-C4	2.57	120.00	118.20
2	AB	54	5MU	O4-C4-N3	-2.57	115.18	120.12
26	BB	1939	5MU	N3-C2-N1	2.57	118.30	114.89
26	BB	2575	CH	C5-C4-N3	2.56	119.50	118.04
4	AD	56	PSU	O4-C4-N3	2.55	125.00	120.12
26	BB	2030	6MZ	C1'-N9-C4	-2.53	122.19	126.64
26	BB	747	5MU	O3'-C3'-C2'	2.53	120.01	111.82
26	BB	1917	PSU	C6-N1-C2	2.52	125.26	122.68
26	BB	2580	PSU	O2-C2-N1	-2.51	120.02	122.79
1	AA	1402	4OC	O2'-C2'-C1'	2.51	113.97	109.08
26	BB	1835	2MG	O2'-C2'-C3'	2.50	119.92	111.82
4	AD	21	H2U	O3'-C3'-C2'	2.50	119.91	111.82
26	BB	1962	5MC	O2-C2-N3	-2.50	118.27	122.33
4	AD	56	PSU	O3'-C3'-C4'	2.50	118.28	111.05
2	AB	32	OMC	O4'-C1'-N1	2.50	114.07	108.36
2	AB	8	4SU	C6-C5-C4	-2.49	117.79	119.95
26	BB	1939	5MU	C1'-N1-C6	-2.49	116.98	121.12
1	AA	1519	MA6	C2'-C3'-C4'	-2.49	97.81	102.64
26	BB	745	1MG	CM1-N1-C6	-2.48	114.14	117.55
2	AB	37	MIA	C16-C14-C15	-2.45	109.18	114.60
2	AB	54	5MU	C5-C4-N3	2.45	117.40	115.31
2	AB	20	H2U	O4'-C1'-N1	2.45	112.63	109.30
4	AD	8	4SU	C4-N3-C2	-2.44	124.97	127.34
26	BB	2030	6MZ	O4'-C4'-C5'	2.44	117.40	109.37
26	BB	2580	PSU	N1-C2-N3	2.44	117.89	115.13
26	BB	2504	PSU	N1-C2-N3	-2.44	112.37	115.13
2	AB	55	PSU	O3'-C3'-C4'	2.44	118.09	111.05
1	AA	966	2MG	C2'-C3'-C4'	2.43	107.37	102.64
26	BB	1618	6MZ	O3'-C3'-C4'	-2.43	104.01	111.05
2	AB	37	MIA	C12-C13-C14	-2.42	122.44	127.14
26	BB	955	PSU	C4-N3-C2	2.42	129.82	126.34
1	AA	966	2MG	O4'-C4'-C3'	-2.40	100.37	105.11
26	BB	2575	CH	N4-C4-N3	2.39	121.97	117.23
26	BB	2449	H2U	O4-C4-N3	2.38	124.06	120.28
2	AB	54	5MU	O4'-C1'-N1	2.38	113.80	108.36
26	BB	1917	PSU	O4'-C1'-C2'	2.38	108.50	105.14
2	AB	46	7MG	C3'-C2'-C1'	-2.38	96.91	101.43
26	BB	1939	5MU	C1'-N1-C2	2.38	121.87	117.57
26	BB	747	5MU	C5-C6-N1	-2.37	120.90	123.34
26	BB	2498	OMC	O4'-C1'-N1	2.37	113.78	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2580	PSU	C6-C5-C4	2.37	119.85	118.20
4	AD	33	OMC	O5'-C5'-C4'	2.34	116.97	108.99
26	BB	2069	7MG	C5-C4-N3	-2.33	123.69	128.13
26	BB	2580	PSU	O4'-C1'-C2'	2.31	108.40	105.14
2	AB	17	H2U	C3'-C2'-C1'	2.31	105.81	101.43
26	BB	2580	PSU	C4-N3-C2	-2.30	123.03	126.34
26	BB	745	1MG	O6-C6-C5	2.29	128.25	124.19
26	BB	2575	CH	O2-C2-N1	2.29	126.96	120.81
1	AA	1407	5MC	C6-N1-C2	2.29	124.04	120.87
1	AA	1407	5MC	C1'-N1-C2	-2.29	113.32	118.42
1	AA	1518	MA6	C9-N6-C6	2.28	126.43	119.51
2	AB	37	MIA	C2-N3-C4	-2.28	112.18	115.32
1	AA	1498	UR3	C3'-C2'-C1'	-2.26	97.14	101.43
26	BB	747	5MU	C5-C4-N3	-2.26	113.39	115.31
2	AB	46	7MG	O4'-C1'-C2'	2.25	111.55	106.64
1	AA	1519	MA6	C5'-C4'-C3'	2.25	123.63	115.18
2	AB	20	H2U	O2-C2-N1	2.23	125.91	123.11
26	BB	1618	6MZ	N3-C2-N1	2.23	132.16	128.68
26	BB	2449	H2U	O4-C4-C5	-2.22	117.42	122.17
26	BB	2552	OMU	C4-N3-C2	-2.22	123.65	126.58
4	AD	33	OMC	O4'-C1'-N1	2.22	113.45	108.36
26	BB	747	5MU	C5M-C5-C4	-2.22	116.32	118.77
1	AA	1519	MA6	C1'-N9-C4	-2.22	122.74	126.64
26	BB	2580	PSU	C5-C6-N1	-2.22	118.78	122.11
1	AA	1519	MA6	C10-N6-C6	2.22	126.24	119.51
26	BB	1962	5MC	O4'-C4'-C3'	2.21	109.48	105.11
2	AB	16	H2U	C5-C6-N1	-2.20	104.36	111.61
4	AD	8	4SU	O4'-C4'-C3'	2.20	109.47	105.11
26	BB	2445	2MG	O5'-C5'-C4'	2.19	116.45	108.99
26	BB	747	5MU	O4'-C4'-C3'	2.19	109.45	105.11
26	BB	2605	PSU	O2-C2-N1	-2.18	120.39	122.79
4	AD	56	PSU	C3'-C2'-C1'	-2.17	99.11	101.64
4	AD	33	OMC	C3'-C2'-C1'	-2.17	98.81	102.89
1	AA	1516	2MG	O4'-C4'-C5'	2.16	116.48	109.37
26	BB	2552	OMU	C3'-C2'-C1'	-2.15	98.84	102.89
1	AA	1519	MA6	C10-N6-C9	-2.15	109.19	116.12
1	AA	1402	4OC	C2'-C3'-C4'	-2.15	97.33	101.99
2	AB	16	H2U	O4'-C4'-C5'	2.15	116.43	109.37
2	AB	16	H2U	O5'-C5'-C4'	-2.14	101.71	108.99
26	BB	1917	PSU	N1-C2-N3	-2.14	112.71	115.13
26	BB	2457	PSU	O4'-C1'-C2'	2.13	108.14	105.14
2	AB	54	5MU	C5-C6-N1	-2.12	121.16	123.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2504	PSU	O3'-C3'-C4'	2.12	117.17	111.05
26	BB	2504	PSU	C2'-C3'-C4'	-2.11	98.54	102.64
1	AA	1498	UR3	O4'-C4'-C5'	2.11	116.32	109.37
26	BB	2069	7MG	N1-C2-N3	-2.10	119.41	123.32
26	BB	1911	PSU	O3'-C3'-C4'	2.10	117.12	111.05
1	AA	1516	2MG	O4'-C4'-C3'	-2.09	100.97	105.11
4	AD	55	5MU	N3-C2-N1	2.09	117.67	114.89
2	AB	54	5MU	O4-C4-C5	2.09	127.32	124.90
2	AB	37	MIA	C2'-C3'-C4'	-2.09	98.59	102.64
2	AB	37	MIA	S10-C2-N1	-2.07	108.86	116.01
26	BB	2580	PSU	O3'-C3'-C4'	2.07	117.03	111.05
26	BB	1939	5MU	O4-C4-C5	-2.06	122.51	124.90
26	BB	2605	PSU	N1-C2-N3	2.06	117.46	115.13
26	BB	2069	7MG	O2'-C2'-C3'	-2.05	105.19	111.82
2	AB	46	7MG	N1-C2-N3	2.05	127.15	123.32
26	BB	1962	5MC	C4-N3-C2	-2.05	117.92	120.69
1	AA	1498	UR3	C3U-N3-C2	2.05	120.90	117.31
26	BB	1939	5MU	C5'-C4'-C3'	-2.05	107.51	115.18
2	AB	46	7MG	O4'-C4'-C3'	-2.04	101.08	105.11
2	AB	8	4SU	O2'-C2'-C1'	-2.03	103.23	110.02
1	AA	966	2MG	C5-C6-N1	-2.03	110.37	113.95
1	AA	1516	2MG	O6-C6-N1	2.02	123.03	120.65

There are no chirality outliers.

All (35) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	AA	1207	2MG	N3-C2-N2-CM2
2	AB	8	4SU	C2'-C1'-N1-C2
2	AB	8	4SU	C2'-C1'-N1-C6
2	AB	46	7MG	C4'-C5'-O5'-P
26	BB	1915	3TD	C2'-C1'-C5-C4
26	BB	1915	3TD	C2'-C1'-C5-C6
26	BB	1917	PSU	C2'-C1'-C5-C4
26	BB	1917	PSU	C2'-C1'-C5-C6
26	BB	2580	PSU	O4'-C1'-C5-C4
26	BB	2580	PSU	C2'-C1'-C5-C6
26	BB	2580	PSU	O4'-C1'-C5-C6
26	BB	2030	6MZ	O4'-C4'-C5'-O5'
26	BB	2030	6MZ	C3'-C4'-C5'-O5'
26	BB	2580	PSU	C3'-C4'-C5'-O5'
1	AA	1518	MA6	N1-C6-N6-C10

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Mol	Chain	Res	Type	Atoms
1	AA	1518	MA6	C5-C6-N6-C10
1	AA	1498	UR3	C3'-C4'-C5'-O5'
26	BB	2449	H2U	O4'-C4'-C5'-O5'
2	AB	8	4SU	C4'-C5'-O5'-P
1	AA	527	7MG	C4'-C5'-O5'-P
26	BB	2580	PSU	O4'-C4'-C5'-O5'
2	AB	8	4SU	O4'-C1'-N1-C6
2	AB	46	7MG	O4'-C4'-C5'-O5'
2	AB	55	PSU	O4'-C1'-C5-C4
26	BB	1911	PSU	O4'-C1'-C5-C4
26	BB	1917	PSU	O4'-C1'-C5-C4
1	AA	1498	UR3	O4'-C4'-C5'-O5'
1	AA	527	7MG	O4'-C4'-C5'-O5'
2	AB	54	5MU	O4'-C4'-C5'-O5'
26	BB	1962	5MC	O4'-C1'-N1-C6
26	BB	1618	6MZ	O4'-C4'-C5'-O5'
2	AB	46	7MG	C2'-C1'-N9-C8
2	AB	8	4SU	O4'-C1'-N1-C2
26	BB	2449	H2U	C3'-C4'-C5'-O5'
2	AB	17	H2U	O4'-C4'-C5'-O5'

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

2 ligands are modelled in this entry.

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	$\#\|Z\|>2$
59	TRP	AB	101	60,2	14,15,16	1.53	2 (14%)	13,20,22	2.28	7 (53%)
60	FME	BB	3001	59	8,9,10	1.63	1 (12%)	7,9,11	2.00	3 (42%)

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
59	TRP	AB	101	60,2	-	2/5/6/8	0/2/2/2
60	FME	BB	3001	59	-	2/7/9/11	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	AB	101	TRP	OXT-C	-3.96	1.25	1.42
60	BB	3001	FME	CA-N	-3.74	1.41	1.46
59	AB	101	TRP	C-CA	2.56	1.56	1.52

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
59	AB	101	TRP	CB-CG-CD1	-3.98	123.06	127.97
60	BB	3001	FME	CG-CB-CA	3.44	122.50	112.95
59	AB	101	TRP	CZ3-CE3-CD2	3.18	125.30	120.89
59	AB	101	TRP	CZ2-CE2-NE1	2.88	138.77	130.80
59	AB	101	TRP	CH2-CZ2-CE2	2.70	123.97	120.08
59	AB	101	TRP	CH2-CZ3-CE3	-2.57	116.83	120.44
60	BB	3001	FME	O-C-CA	-2.29	118.77	124.78
59	AB	101	TRP	CB-CG-CD2	2.24	129.74	126.25
59	AB	101	TRP	CZ2-CE2-CD2	-2.16	116.81	120.76
60	BB	3001	FME	C-CA-N	2.15	113.61	109.73

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
60	BB	3001	FME	O1-CN-N-CA
60	BB	3001	FME	CB-CG-SD-CE
59	AB	101	TRP	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
59	AB	101	TRP	CA-CB-CG-CD1

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
26	BB	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BB	1614:A	O3'	1615:C	P	1.76

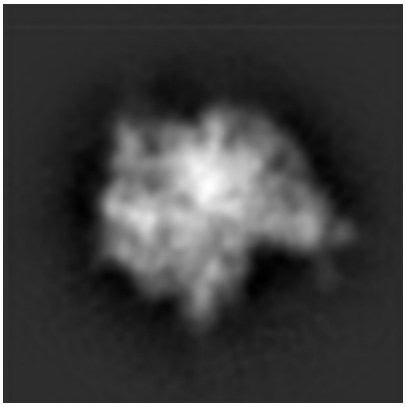
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-5359. These allow visual inspection of the internal detail of the map and identification of artifacts.

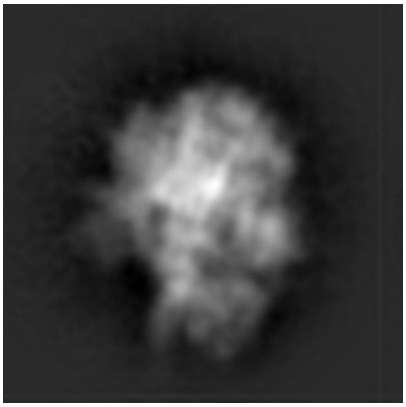
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

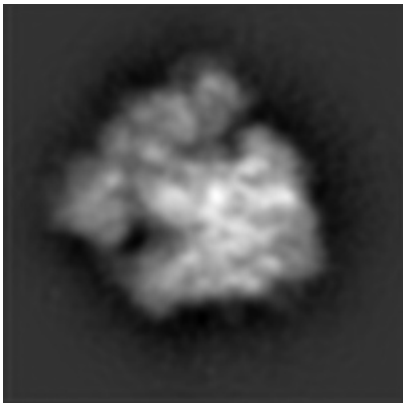
6.1.1 Primary map



X



Y

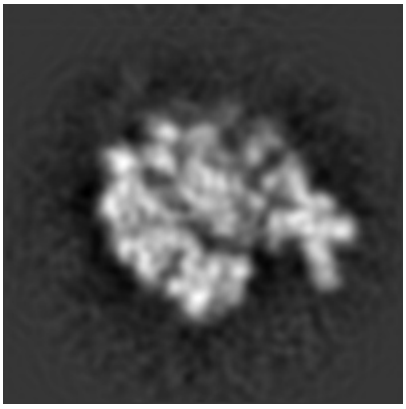


Z

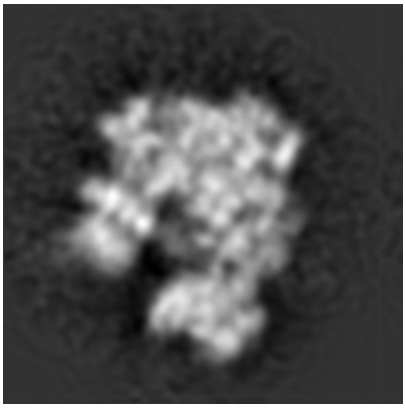
The images above show the map projected in three orthogonal directions.

6.2 Central slices

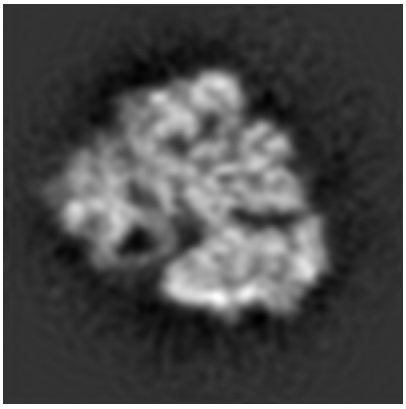
6.2.1 Primary map



X Index: 125



Y Index: 125

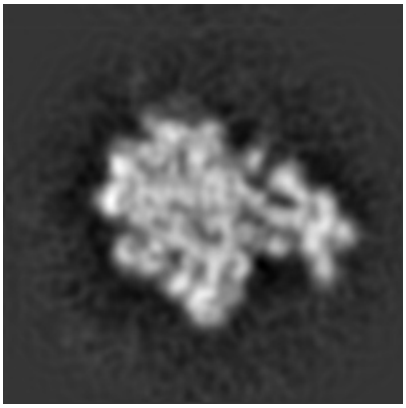


Z Index: 125

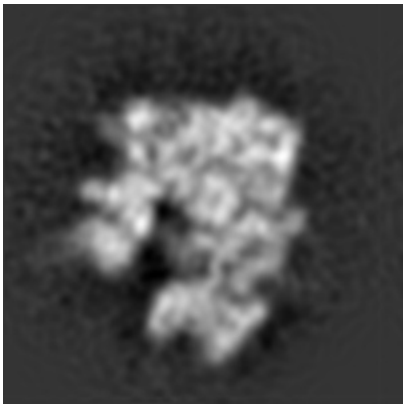
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

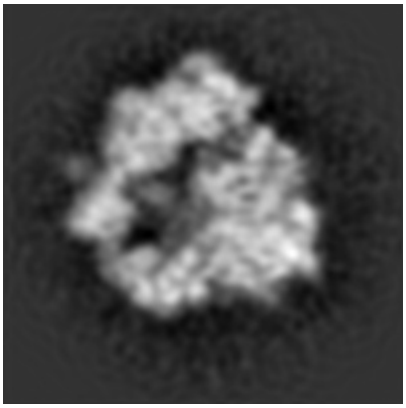
6.3.1 Primary map



X Index: 131



Y Index: 129

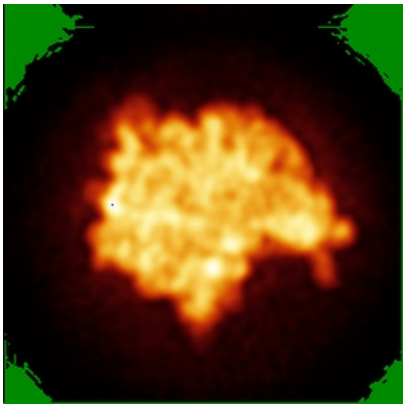


Z Index: 114

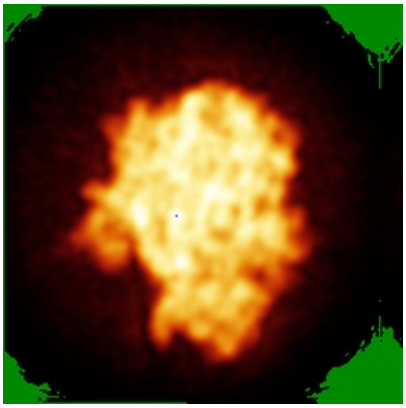
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

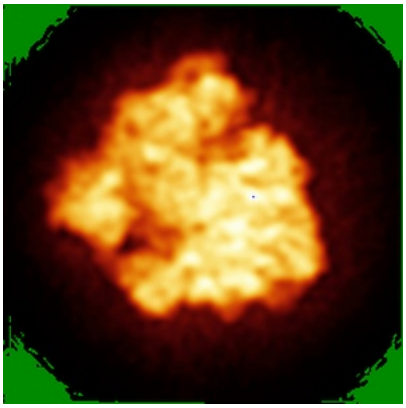
6.4.1 Primary map



X



Y

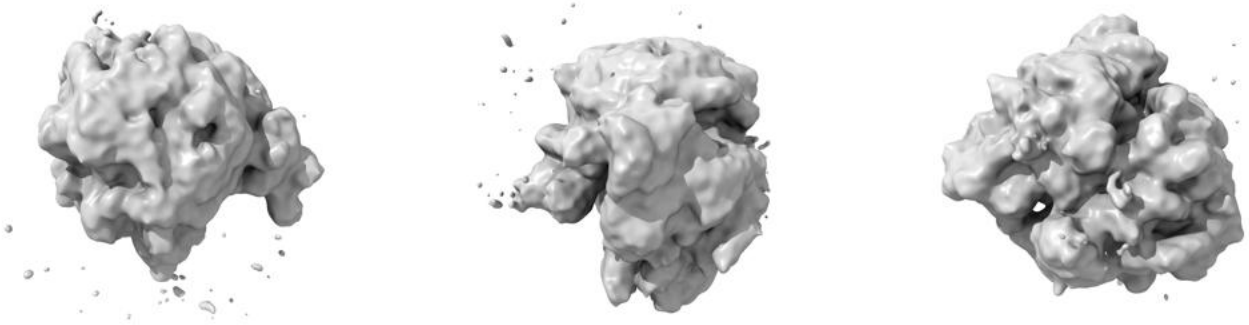


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.1. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

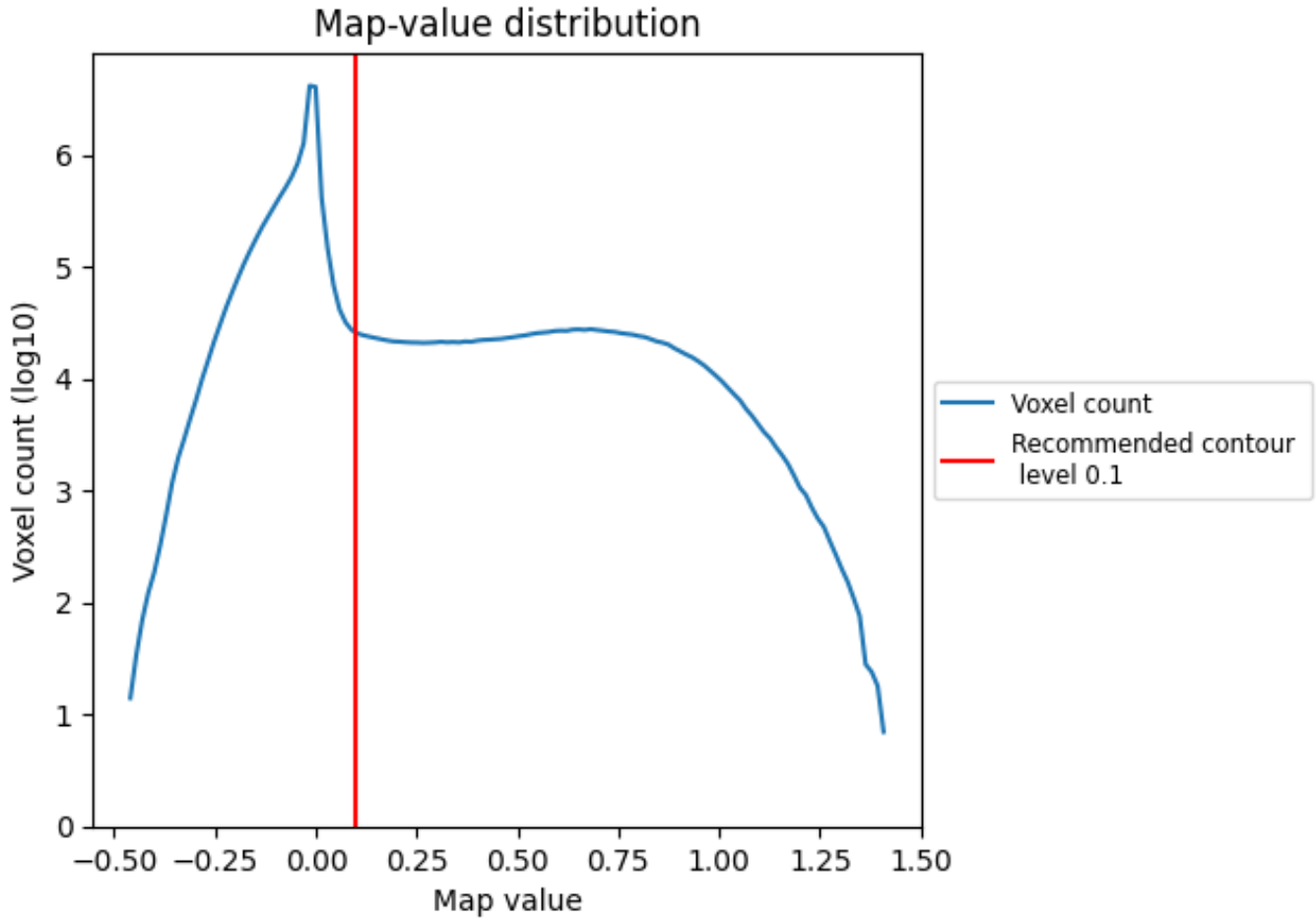
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

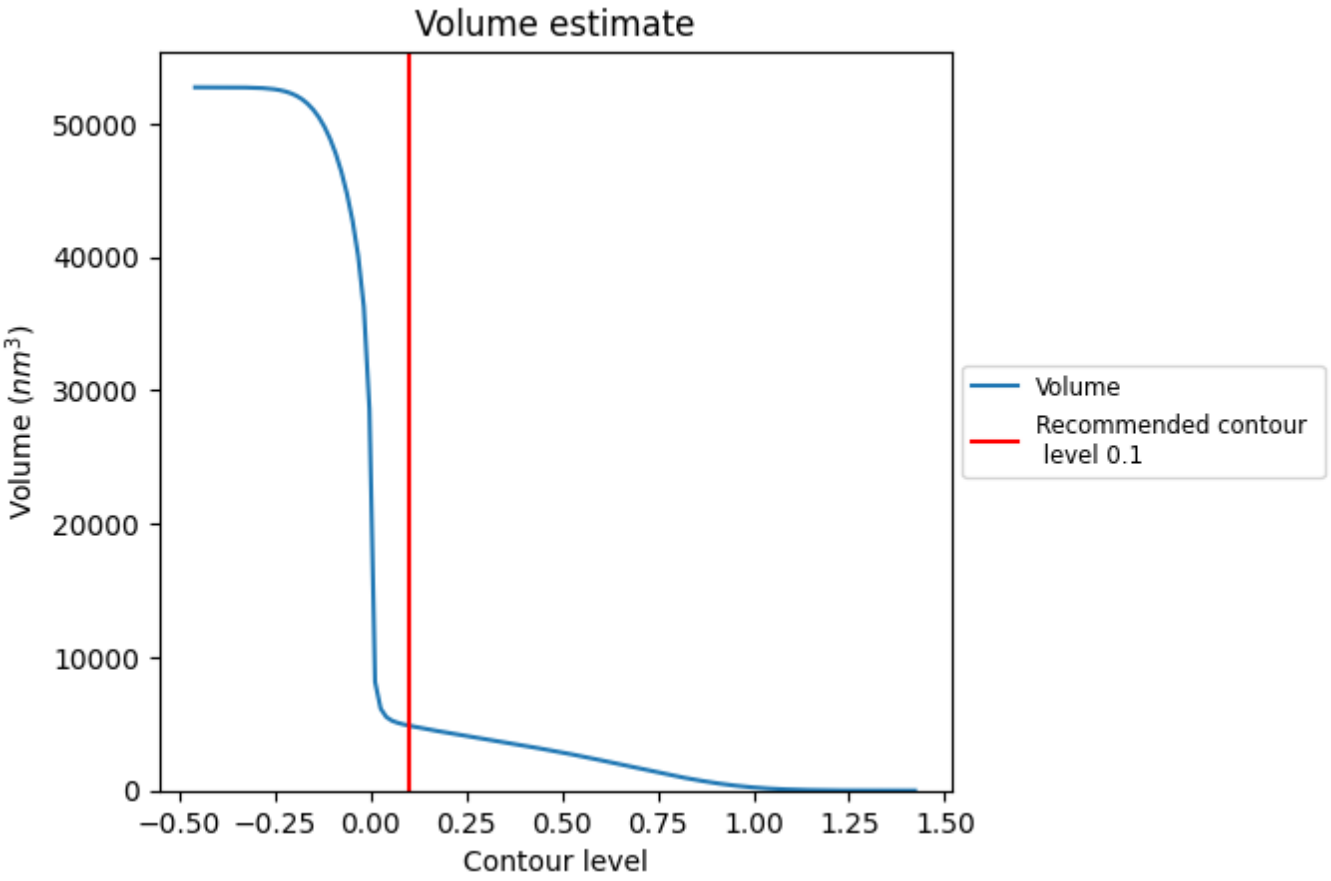
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

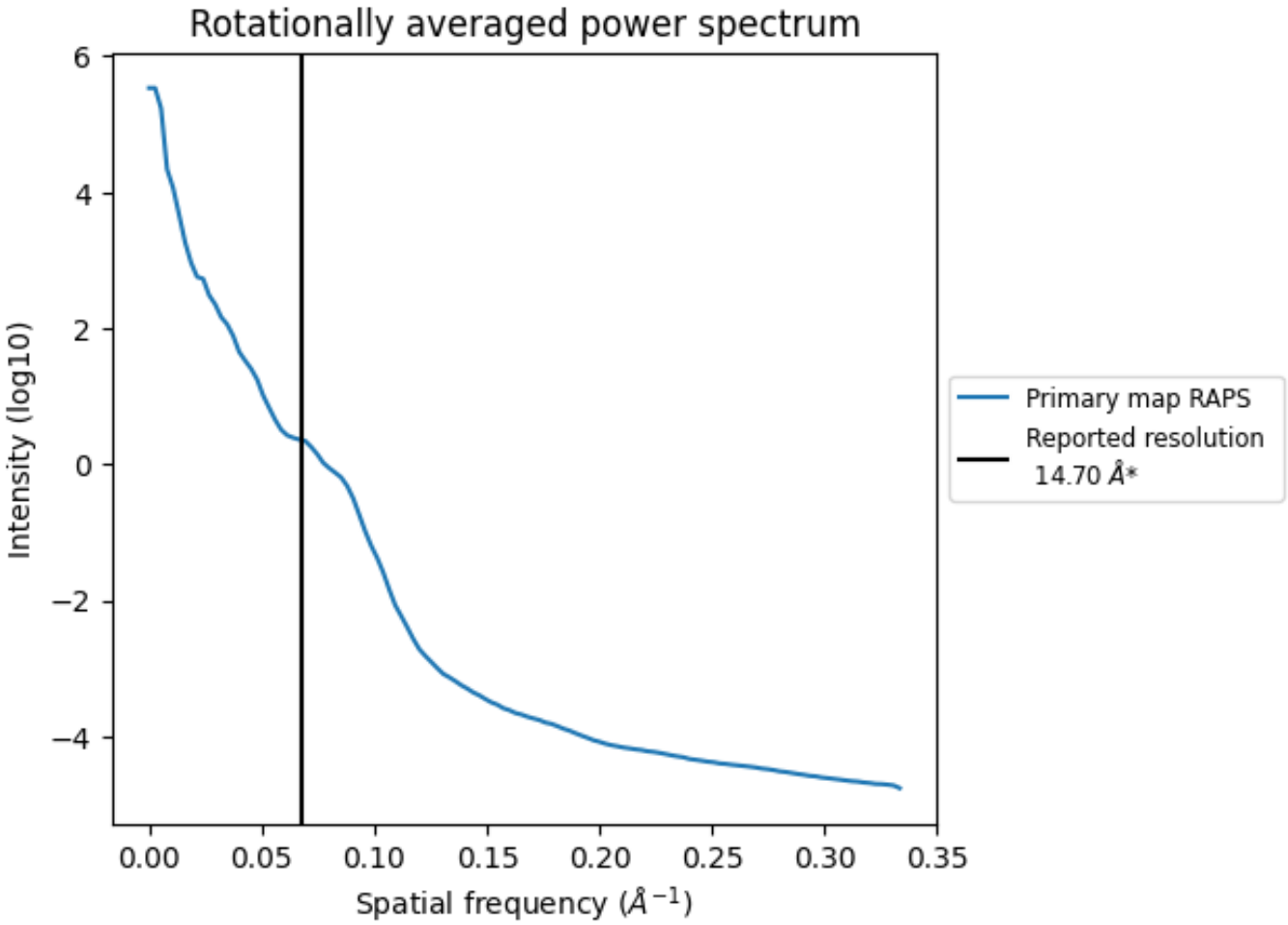
7.2 Volume estimate



The volume at the recommended contour level is 4871 nm^3; this corresponds to an approximate mass of 4400 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.068 Å^{-1}

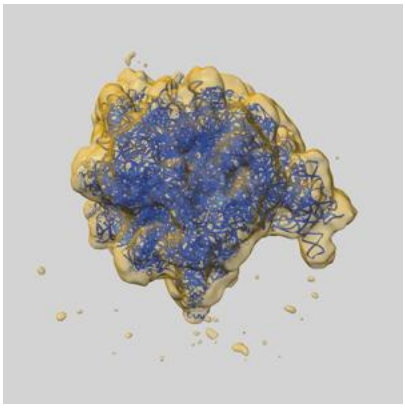
8 Fourier-Shell correlation (i)

This section was not generated. No FSC curve or half-maps provided.

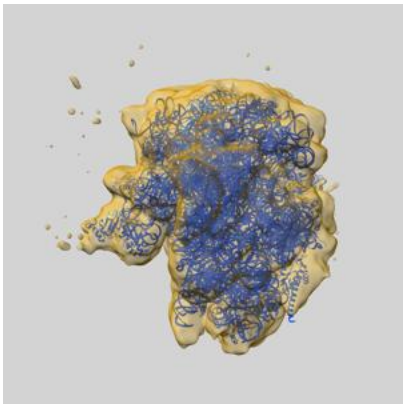
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-5359 and PDB model 4V6O. Per-residue inclusion information can be found in section 3 on page 15.

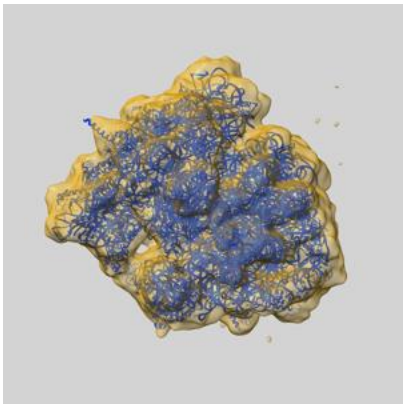
9.1 Map-model overlay



X



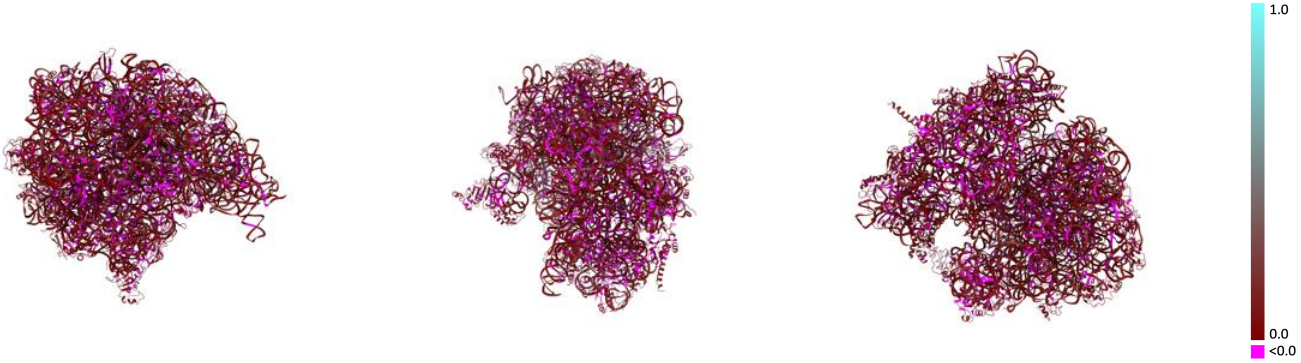
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

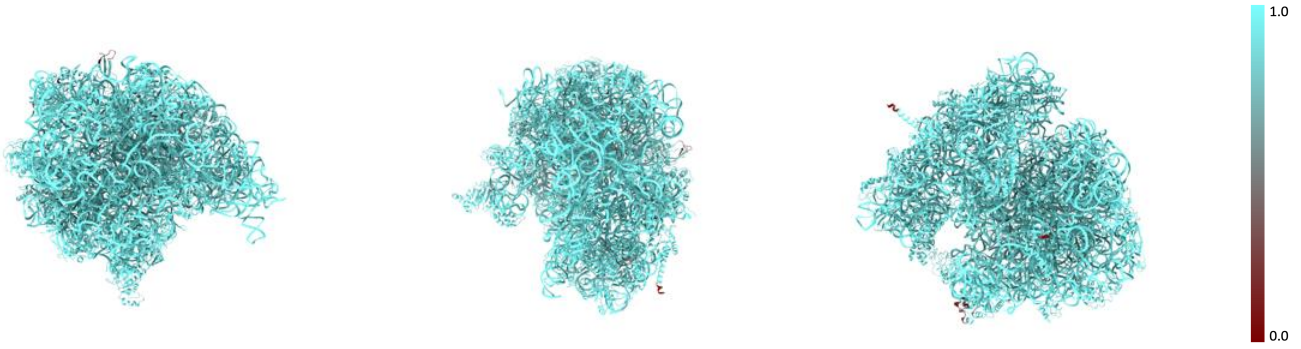
9.2 Q-score mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

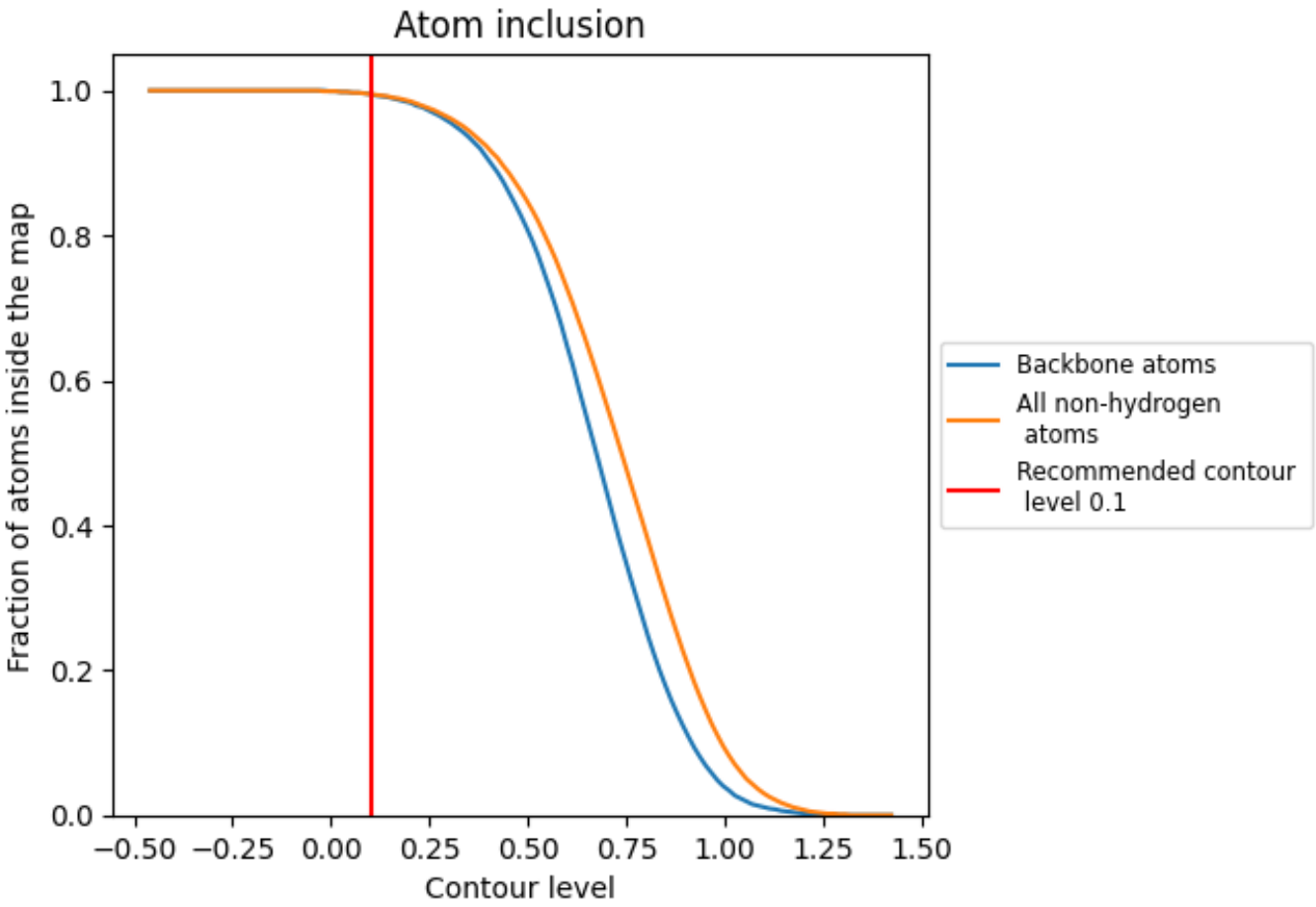
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.1).

9.4 Atom inclusion (i)



At the recommended contour level, 100% of all backbone atoms, 100% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9950	0.0650
AA	1.0000	0.0830
AB	0.9690	0.0430
AC	0.8940	-0.0220
AD	0.9520	0.0710
AE	0.9670	0.0380
AF	0.9970	0.0560
AG	1.0000	0.0330
AH	0.9980	0.0240
AI	0.9970	0.0450
AJ	1.0000	0.0640
AK	1.0000	0.0190
AL	0.9890	0.0450
AM	1.0000	0.0320
AN	0.9960	0.0540
AO	0.9890	0.0180
AP	0.9980	0.0630
AQ	1.0000	0.0310
AR	1.0000	0.0320
AS	1.0000	0.0250
AT	1.0000	0.0470
AU	1.0000	0.0490
AV	1.0000	0.0290
AW	1.0000	0.0250
AX	0.9980	0.0020
B0	1.0000	0.0290
B1	0.9950	0.0370
B2	0.9960	0.0110
B3	1.0000	0.0300
B4	1.0000	0.0400
B5	1.0000	0.0280
B6	1.0000	0.0010
B7	1.0000	0.0530
BA	1.0000	0.0950
BB	1.0000	0.0830

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Chain	Atom inclusion	Q-score
BC	0.9100	0.0280
BD	1.0000	0.0180
BE	0.9990	0.0270
BF	1.0000	0.0500
BG	1.0000	0.0610
BH	0.9990	0.0300
BI	0.8800	0.0350
BJ	0.9880	0.0510
BK	0.9760	0.0350
BL	1.0000	0.0130
BM	0.9900	0.0300
BN	1.0000	0.0050
BO	1.0000	0.0130
BP	1.0000	0.0190
BQ	0.9950	0.0460
BR	0.9920	0.0300
BS	1.0000	0.0050
BT	0.9990	0.0530
BU	0.9990	0.0180
BV	1.0000	0.0110
BW	1.0000	0.0510
BX	1.0000	0.0520
BY	1.0000	-0.0050
BZ	1.0000	0.0250