Full wwPDB EM Validation Report ⓘ

May 5, 2024 – 07:23 PM EDT

PDB ID	:	4V6R
EMDB ID	:	EMD-5362
Title	:	Structural characterization of mRNA-tRNA translocation intermediates (class 6 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	:	2011-12-08
Resolution	:	11.50 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:

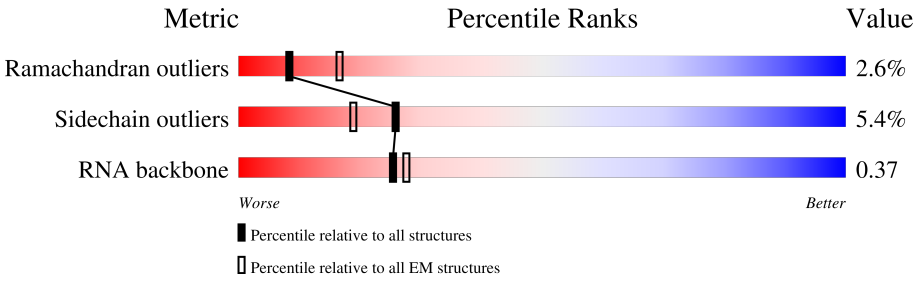
EMDB validation analysis	:	0.0.1.dev92
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al.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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 11.50 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	32% 53% 14%
2	AB	76	29% 53% 18%
3	AC	47	9% 17% 45% 38%
4	AD	77	43% 51% 6%
5	AE	240	76% 21%
6	AF	232	78% 21%
7	AG	205	77% 20%
8	AH	166	79% 20%

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Mol	Chain	Length	Quality of chain
9	AI	135	74% 24%
10	AJ	178	79% 17%
11	AK	129	85% 13%
12	AL	129	74% 24%
13	AM	103	71% 26%
14	AN	128	80% 17%
15	AO	123	73% 20% 6%
16	AP	117	79% 18%
17	AQ	100	66% 30%
18	AR	88	72% 25%
19	AS	82	79% 16% 5%
20	AT	83	76% 17% 7%
21	AU	74	68% 24% 7%
22	AV	91	75% 19% 7%
23	AW	86	84% 13%
24	AX	70	61% 31% 7%
25	BA	120	38% 51% 11%
26	BB	2904	33% 55% 12%
27	BC	234	84% 14%
28	BD	272	74% 22%
29	BE	209	77% 20%
30	BF	201	74% 20% 5%
31	BG	178	70% 26%
32	BH	176	79% 16% 5%
33	BI	149	6% 78% 20%

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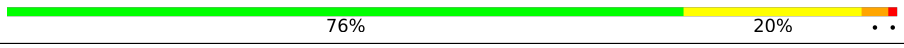
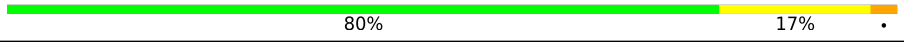
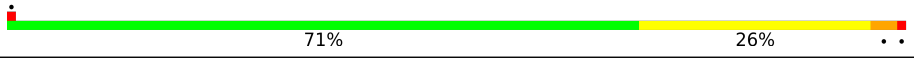
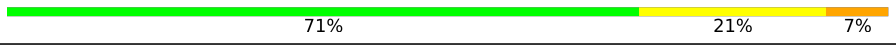
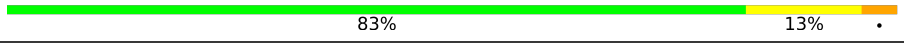
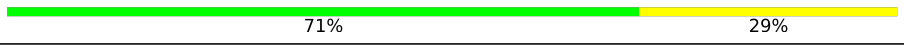
Mol	Chain	Length	Quality of chain
34	BJ	164	
35	BK	141	
36	BL	142	
37	BM	123	
38	BN	144	
39	BO	136	
40	BP	127	
41	BQ	117	
42	BR	114	
43	BS	117	
44	BT	103	
45	BU	110	
46	BV	100	
47	BW	103	
48	BX	94	
49	BY	84	
50	BZ	77	
51	B0	63	
52	B1	58	
53	B2	70	
54	B3	56	
55	B4	54	
56	B5	46	
57	B6	64	
58	B7	38	

2 Entry composition (i)

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		

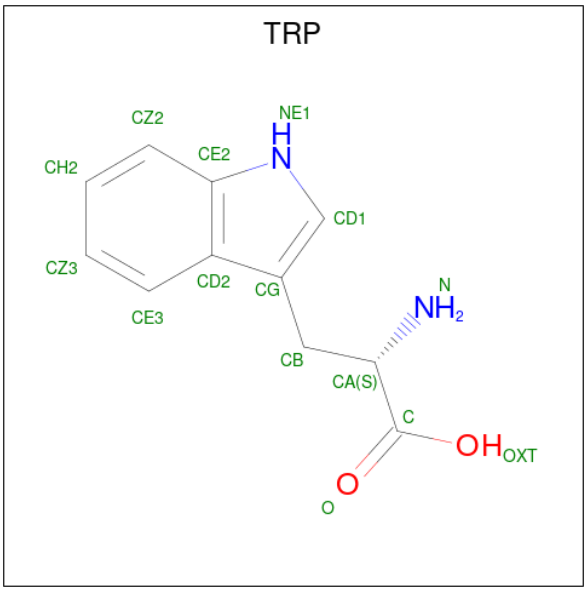
- Molecule 57 is a protein called 50S ribosomal protein L35.

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.

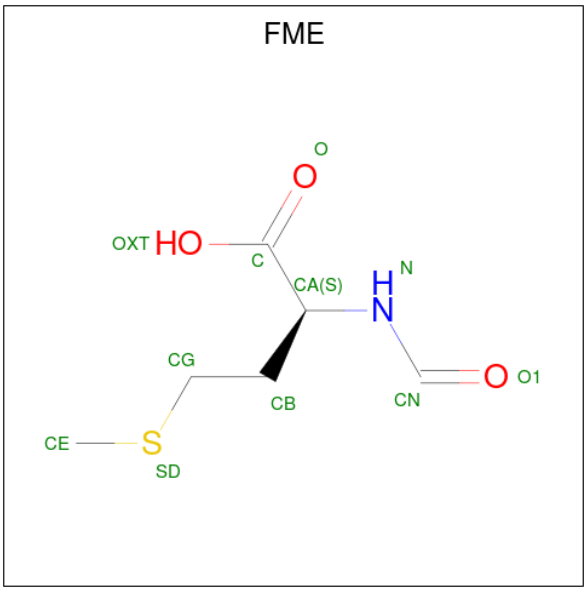
Mol	Chain	Residues	Atoms					AltConf	Trace
58	B7	38	Total	C	N	O	S	0	0
			302	185	65	48	4		

- 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: $C_6H_{11}NO_3S$).



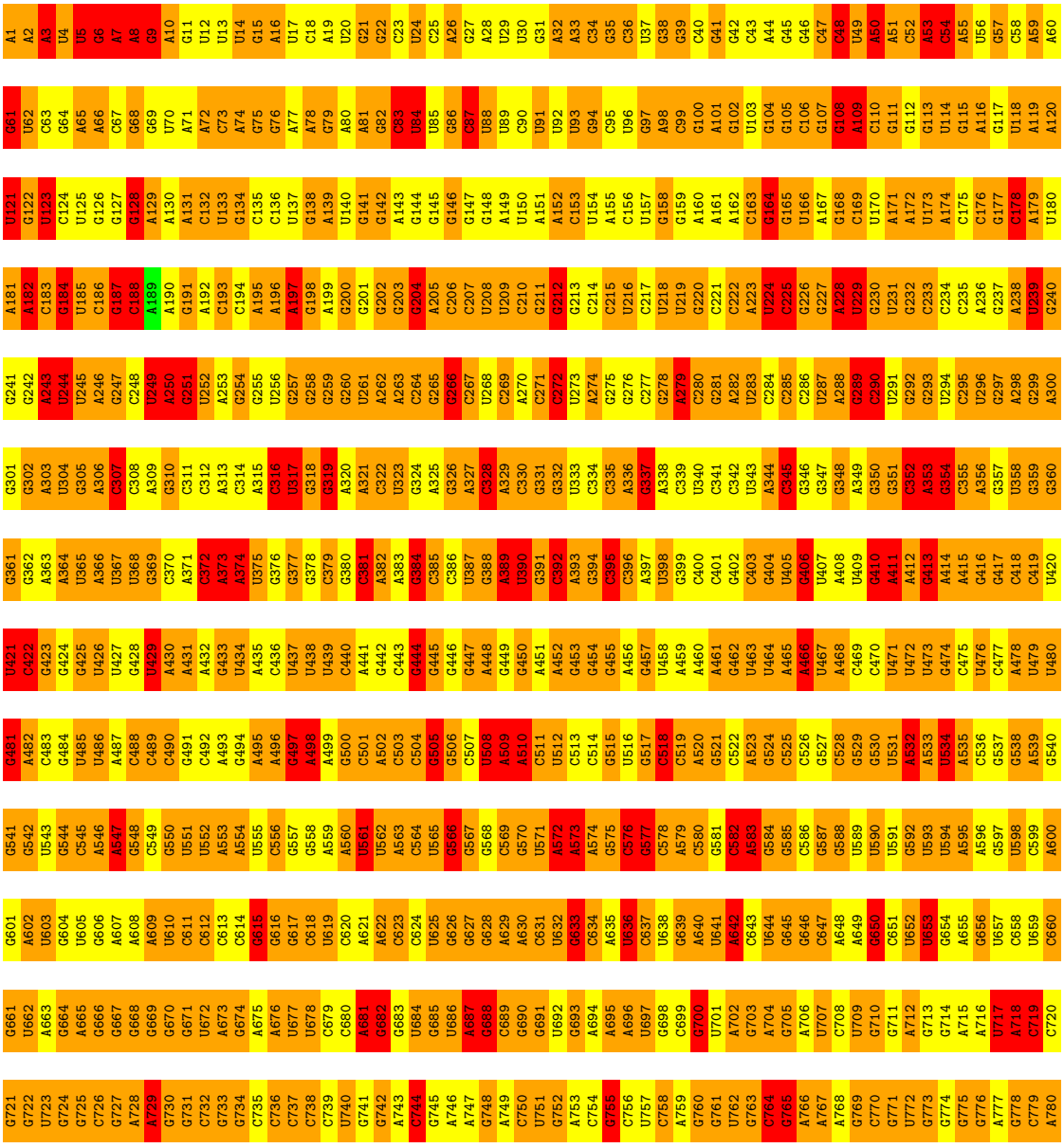
Mol	Chain	Residues	Atoms					AltConf
60	BB	1	Total	C	N	O	S	0
			10	6	1	2	1	

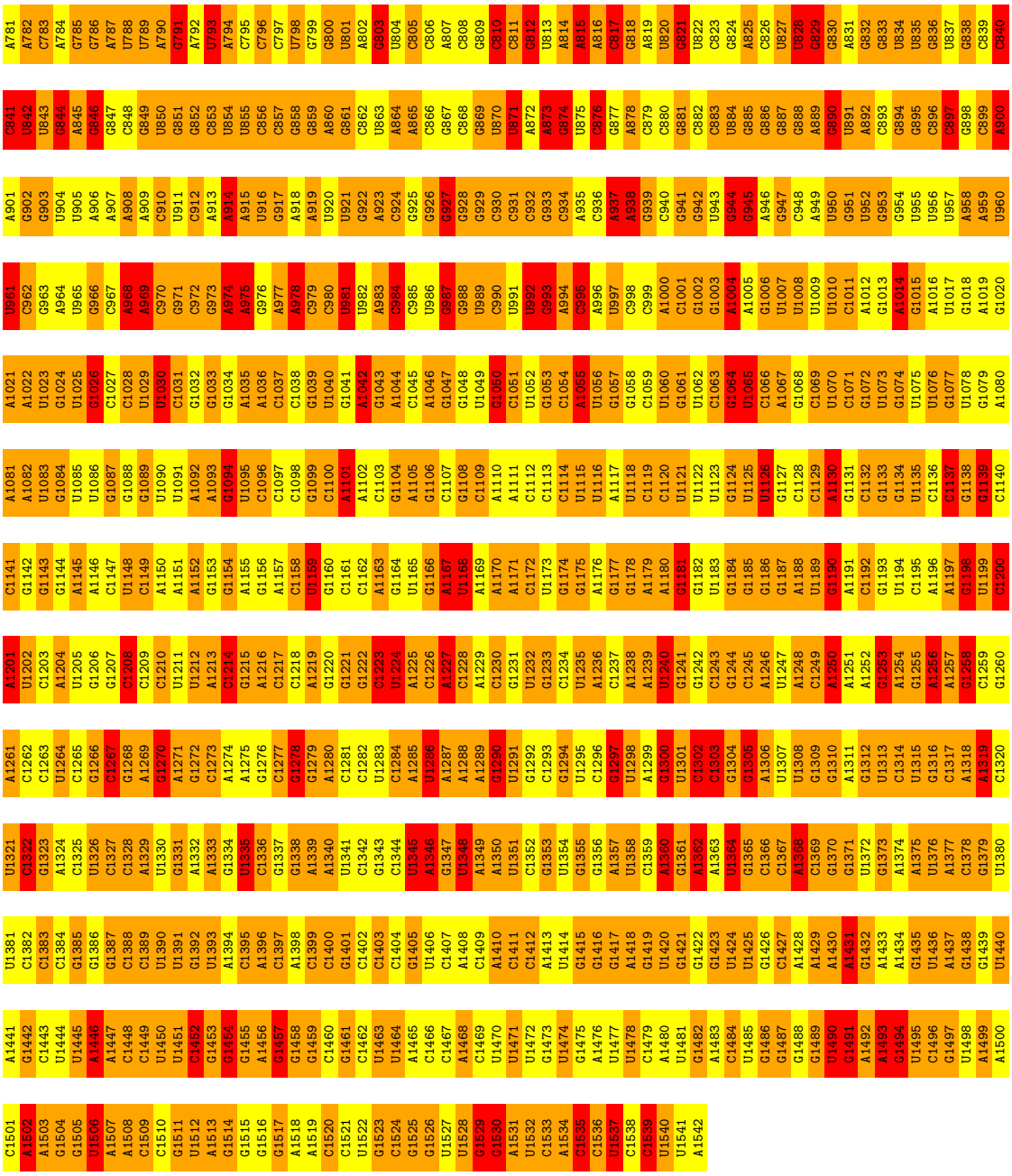
3 Residue-property plots (i)

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

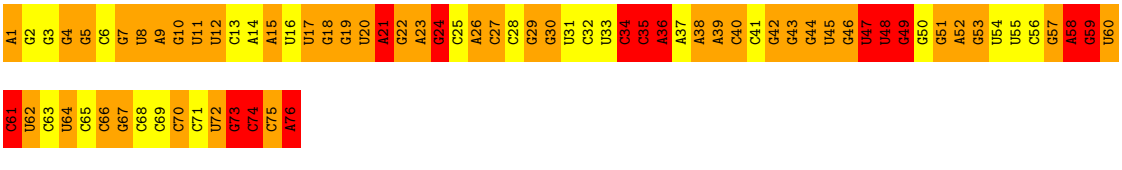
Chain AA: 32% 53% 14%





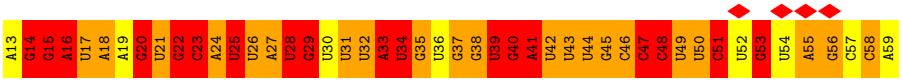
• Molecule 2: A site tRNA

Chain AB:



• Molecule 3: mRNA

Chain AC:

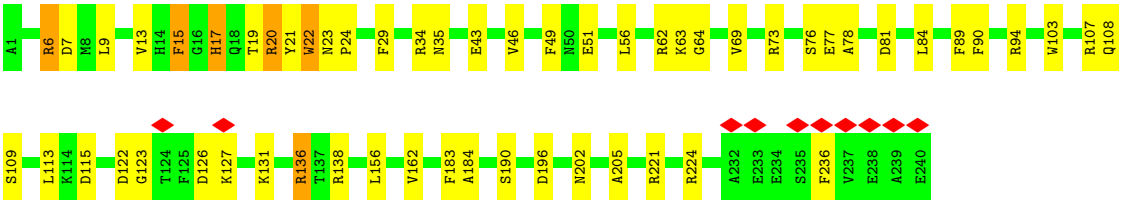


• Molecule 4: P site tRNA

Chain AD:

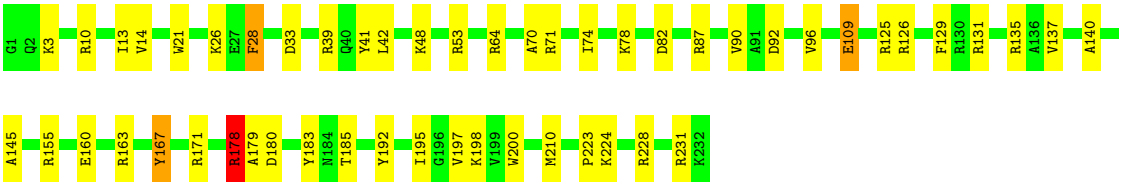
• Molecule 5: 30S ribosomal protein S2

Chain AE:



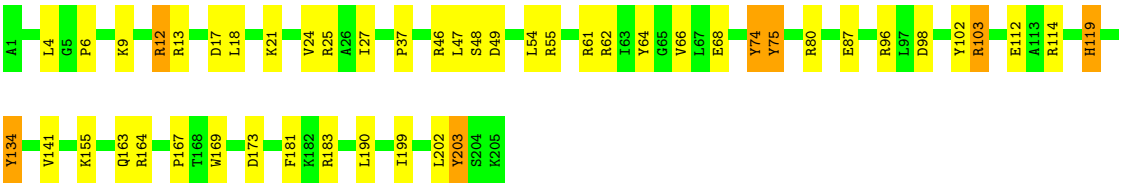
• Molecule 6: 30S ribosomal protein S3

Chain AF:



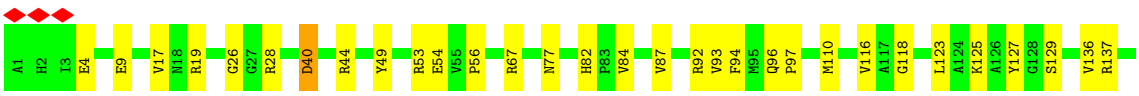
• Molecule 7: 30S ribosomal protein S4

Chain AG:



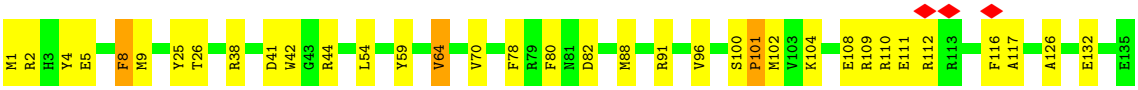
• Molecule 8: 30S ribosomal protein S5

Chain AH:



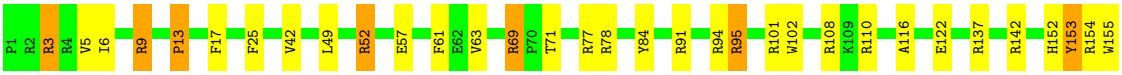
• Molecule 9: 30S ribosomal protein S6

Chain AI:



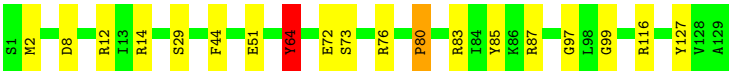
• Molecule 10: 30S ribosomal protein S7

Chain AJ:



• Molecule 11: 30S ribosomal protein S8

Chain AK:

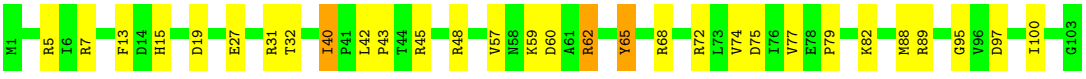


• Molecule 12: 30S ribosomal protein S9

Chain AL:

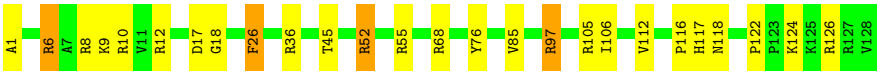
• Molecule 13: 30S ribosomal protein S10

Chain AM:



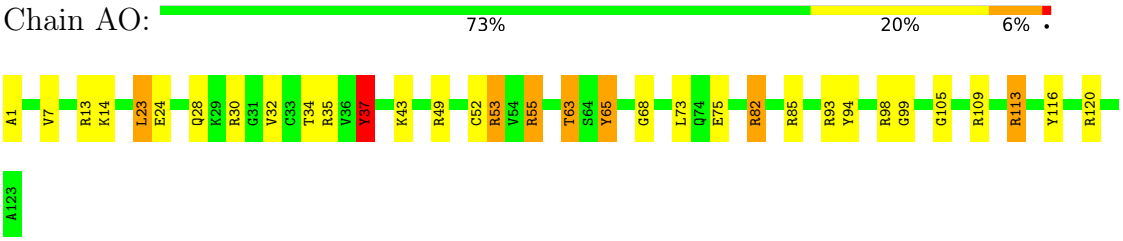
• Molecule 14: 30S ribosomal protein S11

Chain AN:



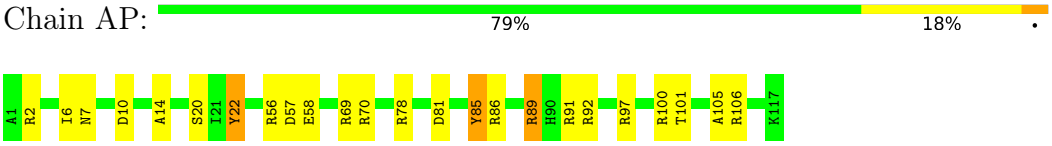
• Molecule 15: 30S ribosomal protein S12

Chain AO:



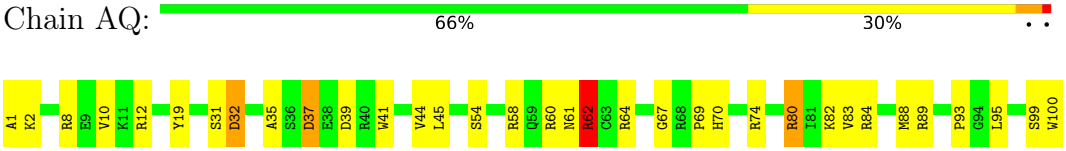
• Molecule 16: 30S ribosomal protein S13

Chain AP:



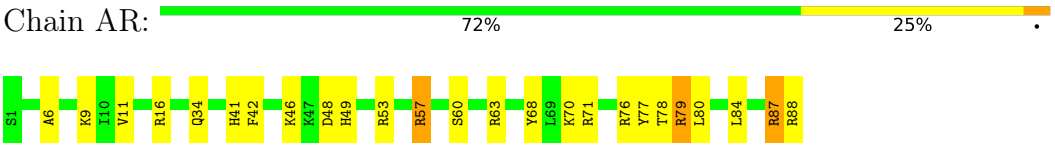
• Molecule 17: 30S ribosomal protein S14

Chain AQ:



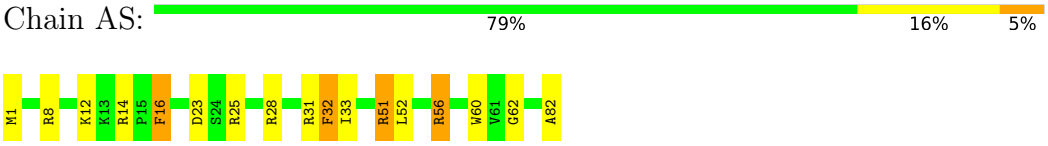
• Molecule 18: 30S ribosomal protein S15

Chain AR:



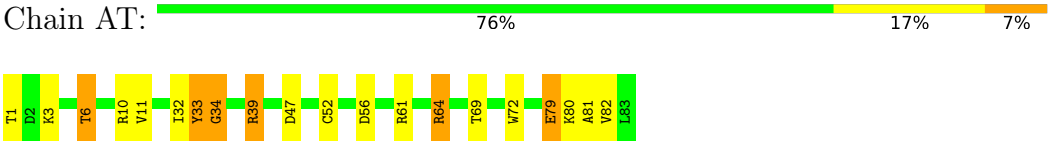
• Molecule 19: 30S ribosomal protein S16

Chain AS:



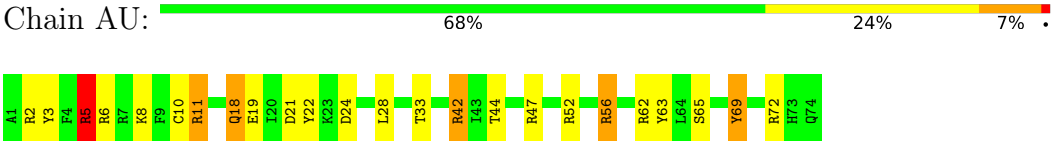
• Molecule 20: 30S ribosomal protein S17

Chain AT:



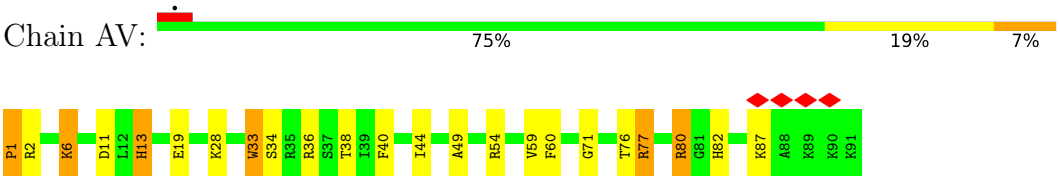
• Molecule 21: 30S ribosomal protein S18

Chain AU:



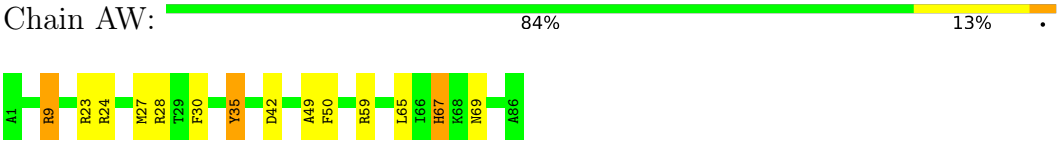
• Molecule 22: 30S ribosomal protein S19

Chain AV:



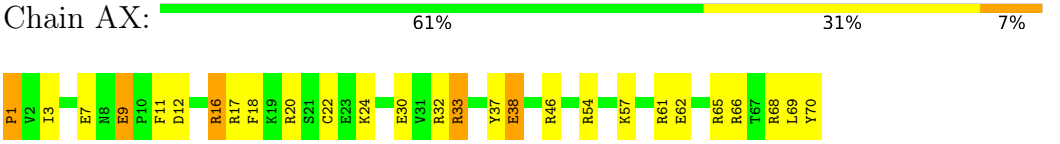
• Molecule 23: 30S ribosomal protein S20

Chain AW:



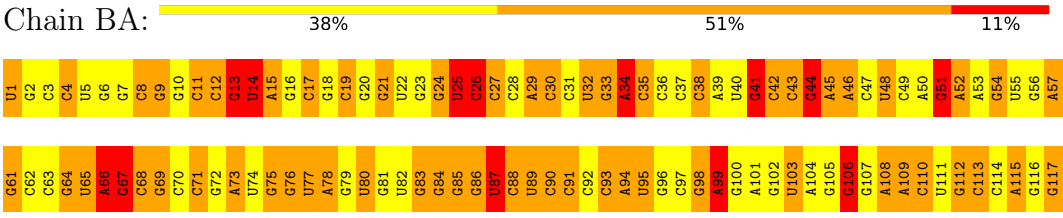
• Molecule 24: 30S ribosomal protein S21

Chain AX:



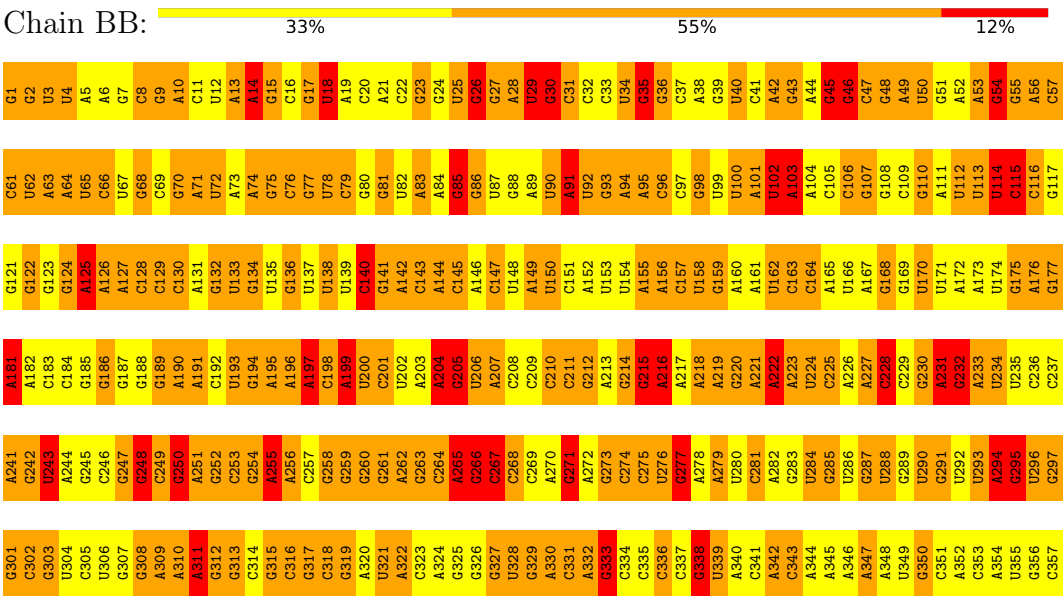
• Molecule 25: 5S ribosomal RNA

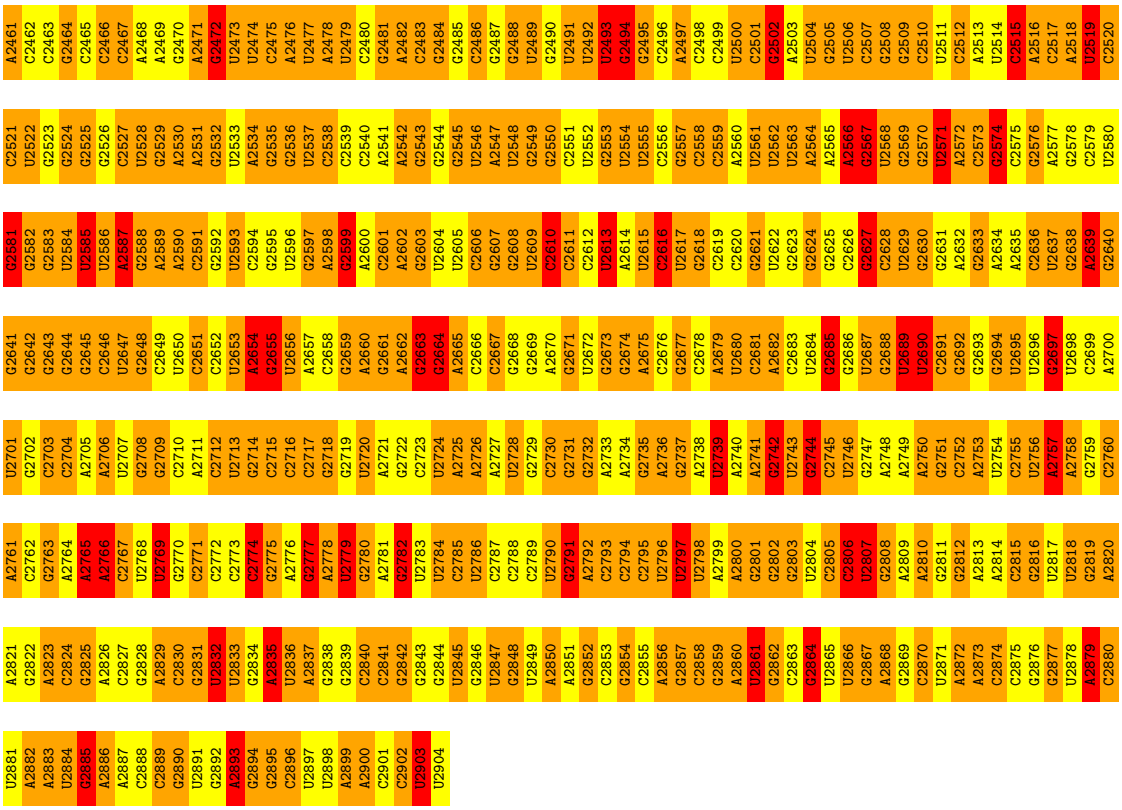
Chain BA:



• Molecule 26: 23S ribosomal RNA

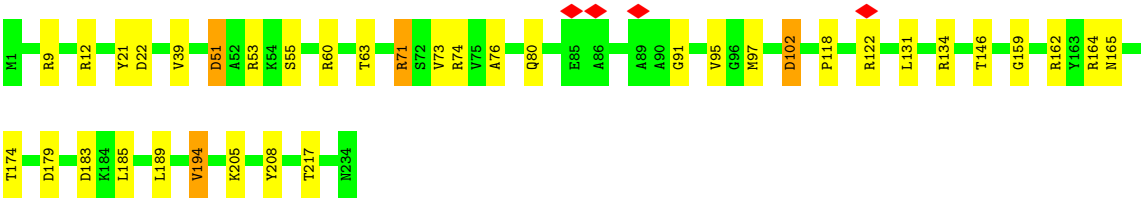
Chain BB:





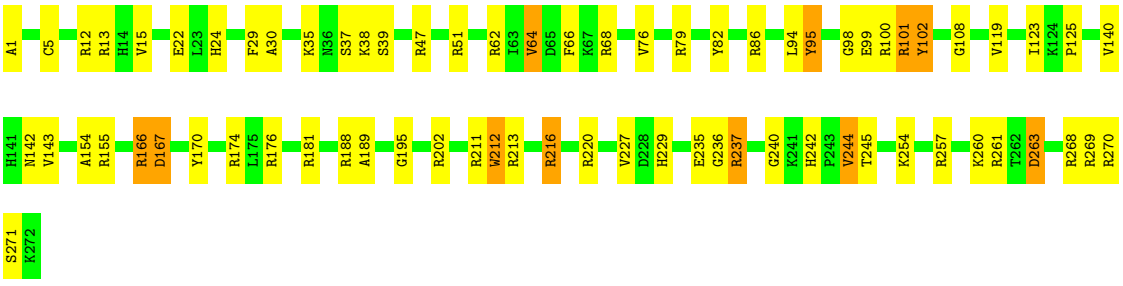
• Molecule 27: 50S ribosomal protein L1

Chain BC:



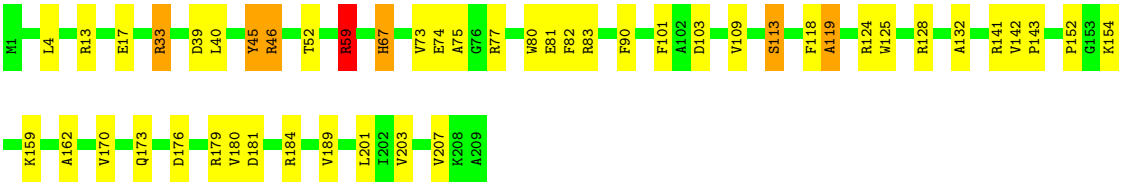
• Molecule 28: 50S ribosomal protein L2

Chain BD:



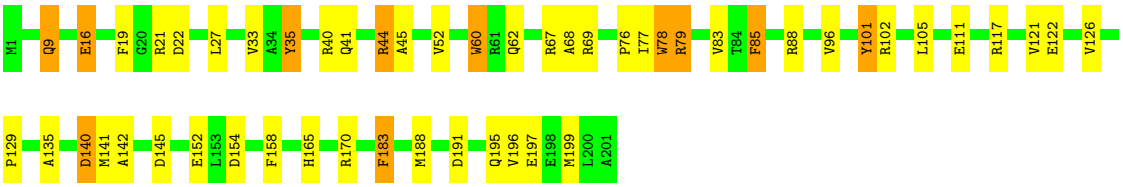
• Molecule 29: 50S ribosomal protein L3

Chain BE:



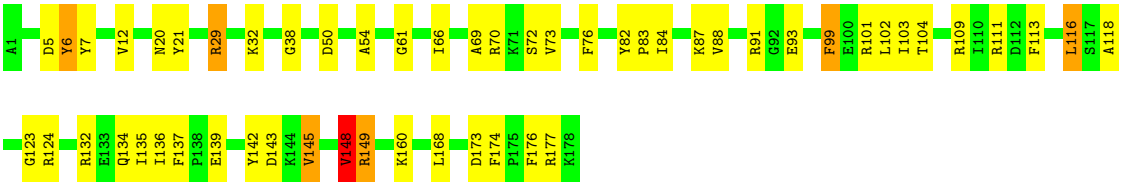
• Molecule 30: 50S ribosomal protein L4

Chain BF:



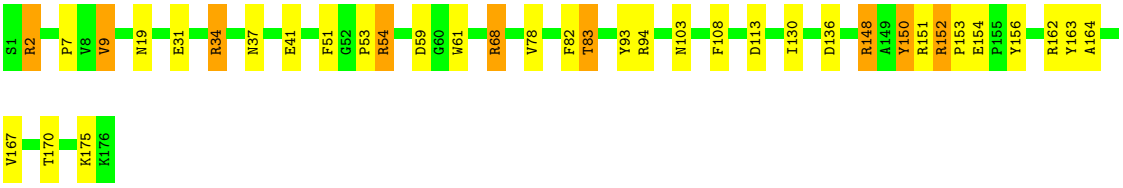
• Molecule 31: 50S ribosomal protein L5

Chain BG:



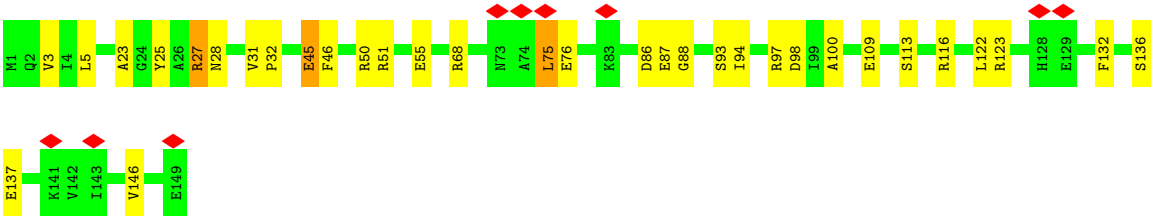
• Molecule 32: 50S ribosomal protein L6

Chain BH:



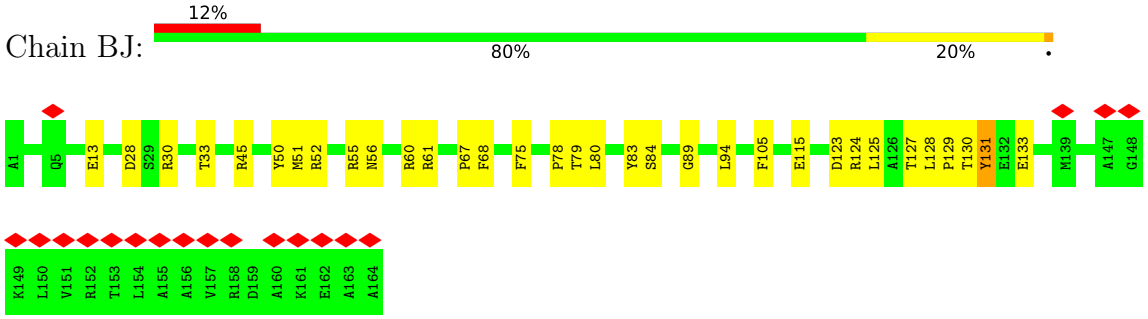
• Molecule 33: 50S ribosomal protein L9

Chain BI:



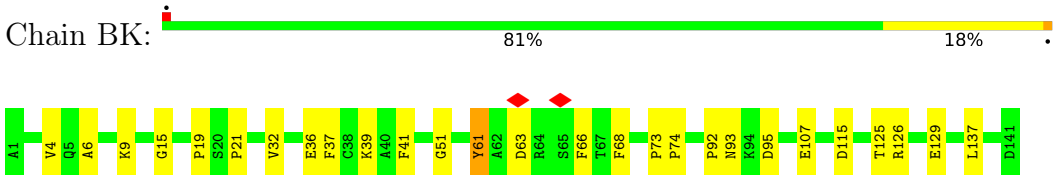
• Molecule 34: 50S ribosomal protein L10

Chain BJ:



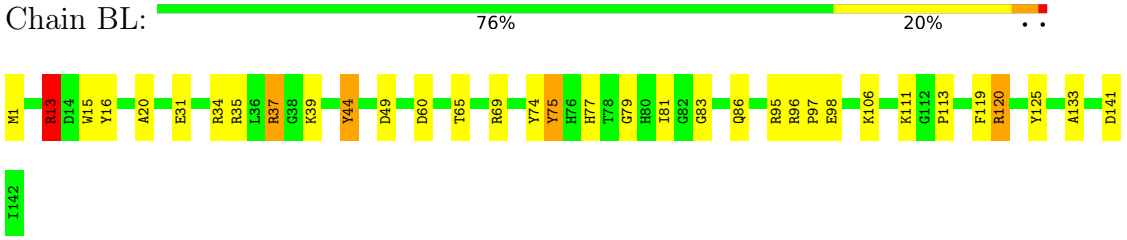
• Molecule 35: 50S ribosomal protein L11

Chain BK:



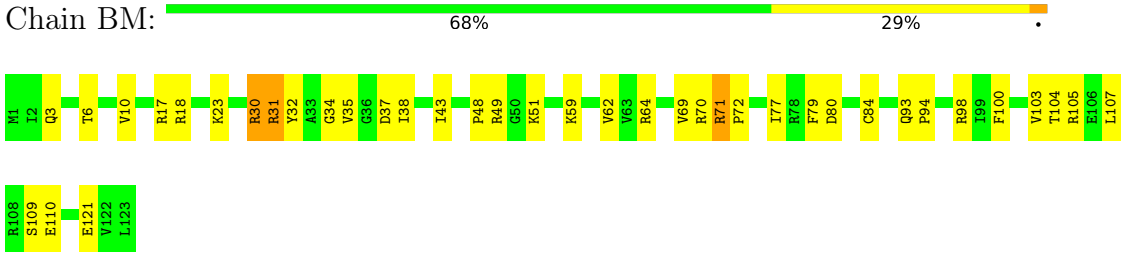
• Molecule 36: 50S ribosomal protein L13

Chain BL:



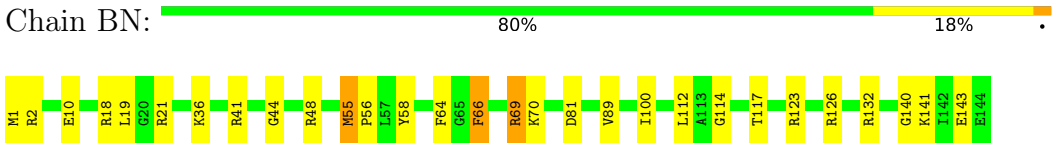
• Molecule 37: 50S ribosomal protein L14

Chain BM:



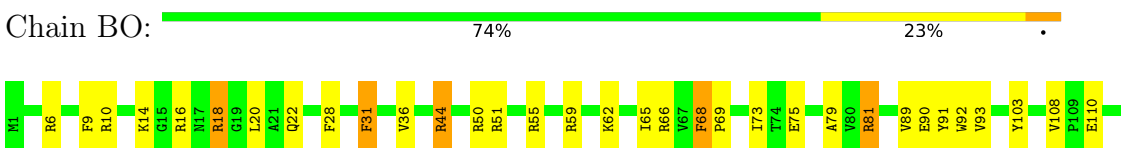
• Molecule 38: 50S ribosomal protein L15

Chain BN:



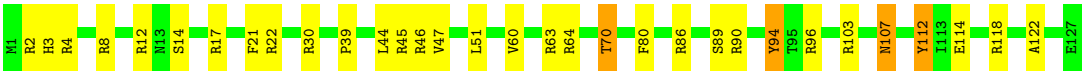
• Molecule 39: 50S ribosomal protein L16

Chain BO:



• Molecule 40: 50S ribosomal protein L17

Chain BP:

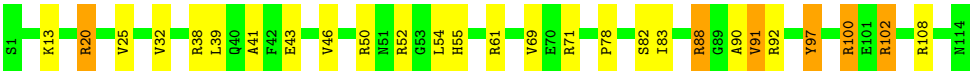


• Molecule 41: 50S ribosomal protein L18

Chain BQ:

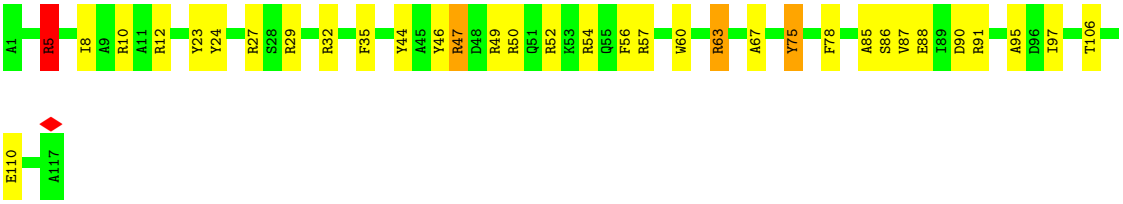
• Molecule 42: 50S ribosomal protein L19

Chain BR:



• Molecule 43: 50S ribosomal protein L20

Chain BS:

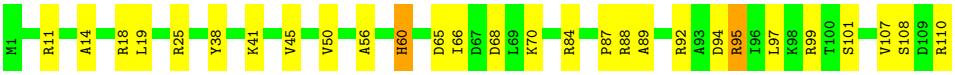


• Molecule 44: 50S ribosomal protein L21

Chain BT:

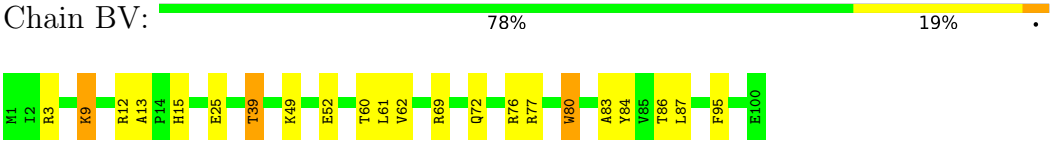
• Molecule 45: 50S ribosomal protein L22

Chain BU:



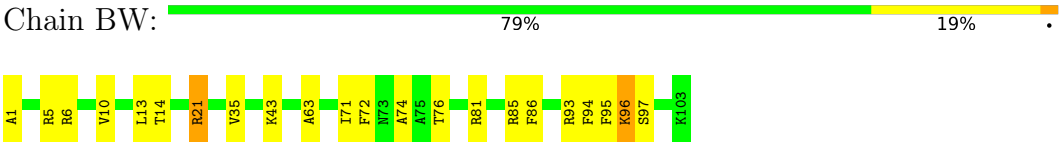
• Molecule 46: 50S ribosomal protein L23

Chain BV:



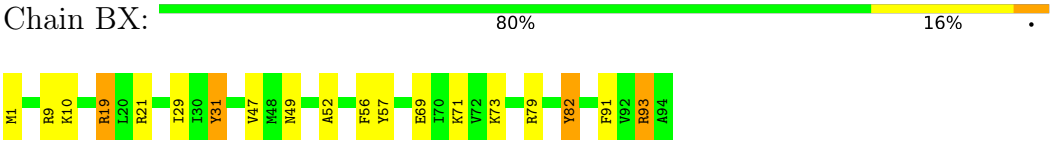
• Molecule 47: 50S ribosomal protein L24

Chain BW:



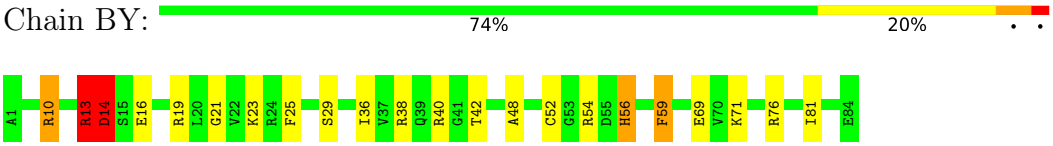
• Molecule 48: 50S ribosomal protein L25

Chain BX:



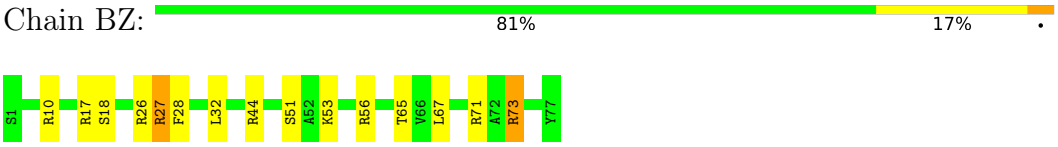
• Molecule 49: 50S ribosomal protein L27

Chain BY:



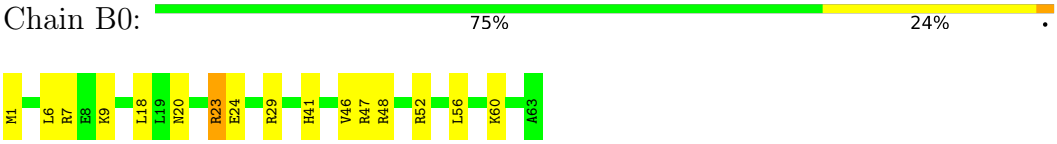
• Molecule 50: 50S ribosomal protein L28

Chain BZ:



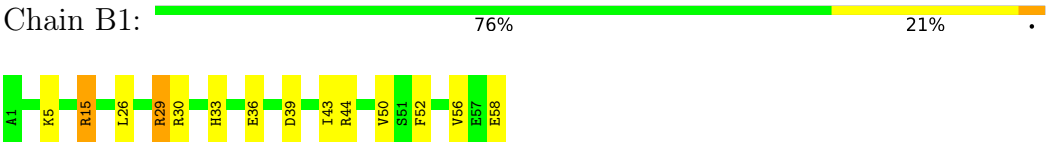
• Molecule 51: 50S ribosomal protein L29

Chain B0:



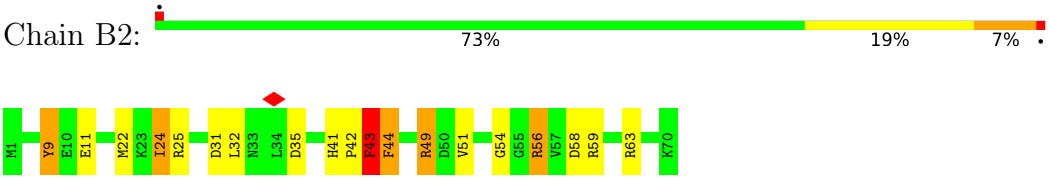
• Molecule 52: 50S ribosomal protein L30

Chain B1:



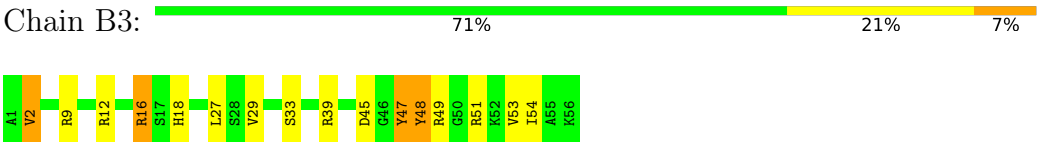
• Molecule 53: 50S ribosomal protein L31

Chain B2:



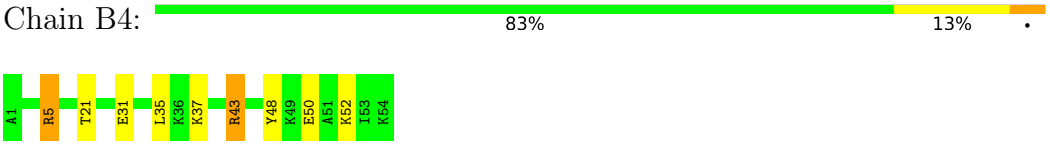
• Molecule 54: 50S ribosomal protein L32

Chain B3:



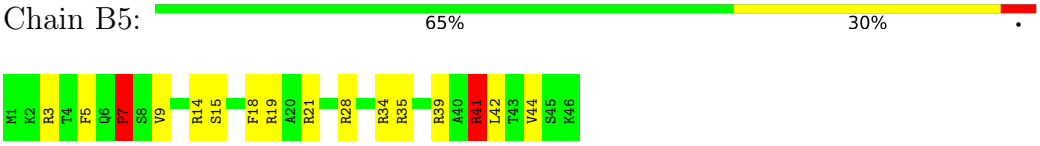
• Molecule 55: 50S ribosomal protein L33

Chain B4:



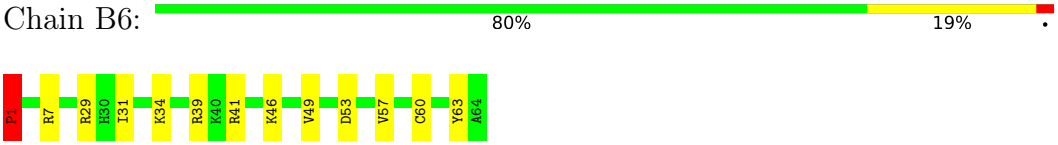
• Molecule 56: 50S ribosomal protein L34

Chain B5:



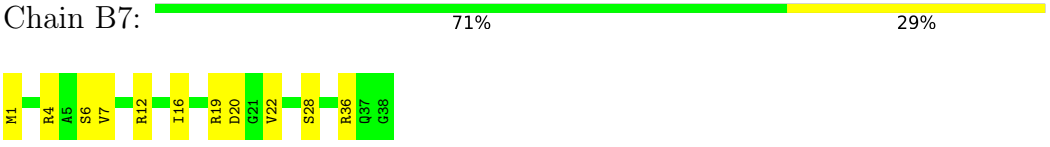
• Molecule 57: 50S ribosomal protein L35

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	37000	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	1.575	Depositor
Minimum map value	-0.492	Depositor
Average map value	0.029	Depositor
Map value standard deviation	0.204	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: OMC, OMG, 2MG, MA6, 3TD, FME, OMU, PSU, 1MG, MIA, 5MC, H2U, 2MA, 4OC, 4SU, UR3, 6MZ, 7MG, CH, 5MU

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	3895/36769 (10.6%)	3.56	8470/57354 (14.8%)
2	AB	3.15	171/1600 (10.7%)	3.56	384/2492 (15.4%)
3	AC	3.09	117/1108 (10.6%)	3.61	256/1724 (14.8%)
4	AD	3.09	193/1721 (11.2%)	3.54	391/2683 (14.6%)
5	AE	1.51	6/1904 (0.3%)	1.92	45/2565 (1.8%)
6	AF	1.52	7/1852 (0.4%)	1.92	47/2490 (1.9%)
7	AG	1.49	7/1665 (0.4%)	2.08	46/2227 (2.1%)
8	AH	1.51	6/1239 (0.5%)	1.87	24/1664 (1.4%)
9	AI	1.55	6/1121 (0.5%)	1.91	29/1509 (1.9%)
10	AJ	1.47	2/1422 (0.1%)	2.07	39/1908 (2.0%)
11	AK	1.53	8/989 (0.8%)	1.89	16/1326 (1.2%)
12	AL	1.52	4/1048 (0.4%)	2.03	33/1394 (2.4%)
13	AM	1.50	5/835 (0.6%)	2.00	23/1127 (2.0%)
14	AN	1.54	6/982 (0.6%)	1.99	24/1323 (1.8%)
15	AO	1.52	4/969 (0.4%)	2.06	33/1300 (2.5%)
16	AP	1.57	5/919 (0.5%)	2.09	26/1226 (2.1%)
17	AQ	1.60	8/817 (1.0%)	1.99	27/1088 (2.5%)
18	AR	1.44	0/724	2.09	30/966 (3.1%)
19	AS	1.53	4/659 (0.6%)	1.92	13/884 (1.5%)
20	AT	1.56	2/681 (0.3%)	1.83	18/913 (2.0%)
21	AU	1.59	7/637 (1.1%)	2.19	20/851 (2.4%)
22	AV	1.48	2/744 (0.3%)	1.98	20/995 (2.0%)
23	AW	1.46	1/676 (0.1%)	1.88	14/895 (1.6%)
24	AX	1.61	4/598 (0.7%)	2.21	25/792 (3.2%)
25	BA	3.02	293/2869 (10.2%)	3.44	610/4474 (13.6%)
26	BB	3.09	7348/69257 (10.6%)	3.54	15639/108040 (14.5%)
27	BC	1.46	3/1748 (0.2%)	1.85	33/2355 (1.4%)
28	BD	1.51	10/2131 (0.5%)	2.03	68/2863 (2.4%)
29	BE	1.54	3/1586 (0.2%)	2.03	41/2134 (1.9%)
30	BF	1.53	6/1571 (0.4%)	1.97	51/2113 (2.4%)
31	BG	1.58	11/1444 (0.8%)	1.94	33/1937 (1.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
32	BH	1.50	7/1343 (0.5%)	1.89	33/1816 (1.8%)
33	BI	1.50	8/1122 (0.7%)	1.93	22/1515 (1.5%)
34	BJ	1.52	4/1247 (0.3%)	1.95	29/1679 (1.7%)
35	BK	1.45	4/1046 (0.4%)	1.81	17/1410 (1.2%)
36	BL	1.53	5/1152 (0.4%)	1.98	24/1551 (1.5%)
37	BM	1.53	3/956 (0.3%)	1.99	28/1279 (2.2%)
38	BN	1.53	4/1062 (0.4%)	1.93	21/1413 (1.5%)
39	BO	1.53	6/1093 (0.5%)	1.96	31/1460 (2.1%)
40	BP	1.53	3/1021 (0.3%)	2.11	37/1364 (2.7%)
41	BQ	1.60	4/910 (0.4%)	1.96	26/1219 (2.1%)
42	BR	1.53	1/929 (0.1%)	2.18	29/1242 (2.3%)
43	BS	1.57	5/960 (0.5%)	2.38	37/1278 (2.9%)
44	BT	1.58	2/829 (0.2%)	2.03	21/1107 (1.9%)
45	BU	1.43	4/864 (0.5%)	2.00	28/1156 (2.4%)
46	BV	1.52	3/794 (0.4%)	1.92	14/1060 (1.3%)
47	BW	1.46	1/797 (0.1%)	2.06	20/1062 (1.9%)
48	BX	1.48	1/766 (0.1%)	1.93	16/1025 (1.6%)
49	BY	1.49	4/642 (0.6%)	2.00	16/848 (1.9%)
50	BZ	1.50	0/635	1.84	17/848 (2.0%)
51	B0	1.43	1/510 (0.2%)	2.02	13/677 (1.9%)
52	B1	1.54	1/453 (0.2%)	1.96	12/605 (2.0%)
53	B2	1.58	4/559 (0.7%)	1.92	13/745 (1.7%)
54	B3	1.55	2/450 (0.4%)	2.05	10/599 (1.7%)
55	B4	1.41	0/448	1.83	6/594 (1.0%)
56	B5	1.50	1/380 (0.3%)	2.36	22/498 (4.4%)
57	B6	1.43	0/513	1.79	11/676 (1.6%)
58	B7	1.44	1/303 (0.3%)	2.17	7/397 (1.8%)
All	All	2.70	12223/164069 (7.4%)	3.19	27088/244735 (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	910
2	AB	0	43
3	AC	0	30
4	AD	0	37
5	AE	0	1
6	AF	0	3
7	AG	0	9

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Mol	Chain	#Chirality outliers	#Planarity outliers
8	AH	0	2
9	AI	0	5
10	AJ	0	6
11	AK	0	2
12	AL	0	3
13	AM	0	2
14	AN	0	4
15	AO	0	9
16	AP	0	4
17	AQ	0	1
18	AR	0	3
19	AS	0	3
20	AT	0	2
21	AU	0	5
22	AV	0	3
23	AW	0	2
24	AX	0	4
25	BA	0	65
26	BB	0	1685
27	BC	0	1
28	BD	0	10
29	BE	0	8
30	BF	0	6
31	BG	0	7
32	BH	0	6
33	BI	0	3
34	BJ	0	4
35	BK	0	5
36	BL	0	8
37	BM	0	4
38	BN	0	2
39	BO	0	4
40	BP	0	2
41	BQ	0	2
42	BR	0	5
43	BS	0	6
44	BT	0	3
45	BU	0	1
46	BV	0	2
47	BW	0	1
48	BX	0	5
49	BY	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
50	BZ	0	1
51	B0	0	1
53	B2	0	5
54	B3	0	4
55	B4	0	3
56	B5	0	2
57	B6	0	1
All	All	0	2959

All (12223) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2448	A	N3-C4	21.86	1.48	1.34
1	AA	451	A	N3-C4	17.17	1.45	1.34
26	BB	492	A	N7-C5	-16.23	1.29	1.39
26	BB	2241	A	N3-C4	15.98	1.44	1.34
26	BB	833	A	N7-C5	-15.82	1.29	1.39
2	AB	65	C	N1-C6	15.48	1.46	1.37
1	AA	717	U	C2-N3	15.45	1.48	1.37
1	AA	851	G	C6-N1	-15.23	1.28	1.39
25	BA	29	A	N7-C5	-15.20	1.30	1.39
26	BB	1529	G	N3-C4	14.93	1.46	1.35
1	AA	579	A	N3-C4	14.82	1.43	1.34
1	AA	631	C	P-O5'	14.68	1.74	1.59
1	AA	560	A	N3-C4	14.56	1.43	1.34
26	BB	389	G	N7-C5	14.44	1.48	1.39
1	AA	192	A	N3-C4	14.40	1.43	1.34
1	AA	1319	A	N3-C4	14.31	1.43	1.34
1	AA	848	C	P-O5'	14.31	1.74	1.59
26	BB	768	G	C6-N1	14.31	1.49	1.39
26	BB	388	G	C8-N7	-14.30	1.22	1.30
26	BB	529	A	N3-C4	14.29	1.43	1.34
26	BB	1785	A	N9-C4	-14.26	1.29	1.37
1	AA	432	A	N3-C4	14.25	1.43	1.34
1	AA	687	A	P-O5'	14.21	1.74	1.59
26	BB	2382	G	P-O5'	14.10	1.73	1.59
1	AA	554	A	N3-C4	14.08	1.43	1.34
26	BB	1315	C	C2-N3	14.01	1.47	1.35
26	BB	969	G	N7-C5	13.90	1.47	1.39
26	BB	2164	C	P-O5'	13.90	1.73	1.59
26	BB	1781	U	C2-N3	13.86	1.47	1.37
1	AA	263	A	N3-C4	13.83	1.43	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1448	G	P-O5'	13.81	1.73	1.59
4	AD	57	C	N1-C6	13.76	1.45	1.37
26	BB	2887	A	N7-C5	-13.76	1.30	1.39
1	AA	106	C	N1-C6	13.71	1.45	1.37
26	BB	1359	A	N7-C5	-13.66	1.31	1.39
26	BB	532	A	N3-C4	13.64	1.43	1.34
26	BB	1014	A	N3-C4	13.62	1.43	1.34
1	AA	805	C	P-O5'	13.59	1.73	1.59
26	BB	603	A	N3-C4	13.58	1.43	1.34
26	BB	391	A	N3-C4	13.47	1.43	1.34
1	AA	1457	G	O3'-P	13.45	1.77	1.61
26	BB	1552	A	N7-C5	-13.42	1.31	1.39
26	BB	2330	G	N1-C2	13.39	1.48	1.37
26	BB	2719	G	N7-C5	13.38	1.47	1.39
1	AA	208	U	P-O5'	13.35	1.73	1.59
26	BB	1105	U	C2-N3	13.33	1.47	1.37
1	AA	366	A	N9-C4	13.33	1.45	1.37
26	BB	444	C	N1-C6	13.31	1.45	1.37
1	AA	1044	A	N3-C4	13.27	1.42	1.34
26	BB	1720	U	P-O5'	13.26	1.73	1.59
1	AA	1429	A	P-O5'	13.26	1.73	1.59
26	BB	2547	A	N7-C5	13.26	1.47	1.39
26	BB	1588	G	N3-C4	13.22	1.44	1.35
26	BB	1900	A	N7-C5	13.17	1.47	1.39
26	BB	2437	G	P-O5'	13.14	1.72	1.59
26	BB	246	C	N1-C6	13.10	1.45	1.37
26	BB	513	A	N3-C4	13.06	1.42	1.34
26	BB	2396	G	C2-N3	13.01	1.43	1.32
26	BB	1253	A	N9-C4	12.99	1.45	1.37
26	BB	2366	A	N7-C5	12.97	1.47	1.39
26	BB	677	A	C6-N1	12.97	1.44	1.35
26	BB	84	A	N3-C4	12.92	1.42	1.34
1	AA	584	G	N3-C4	12.85	1.44	1.35
26	BB	284	U	C2-N3	12.84	1.46	1.37
1	AA	442	G	N7-C5	12.83	1.47	1.39
26	BB	2062	A	N9-C4	12.78	1.45	1.37
26	BB	1039	A	C6-N1	12.75	1.44	1.35
26	BB	1320	C	N1-C6	12.75	1.44	1.37
4	AD	26	C	N1-C6	12.72	1.44	1.37
26	BB	2641	G	C6-N1	12.72	1.48	1.39
26	BB	707	G	N7-C5	-12.70	1.31	1.39
26	BB	1090	A	N7-C5	-12.66	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	794	A	P-O5'	12.65	1.72	1.59
1	AA	730	G	C8-N7	-12.64	1.23	1.30
26	BB	288	U	C2-N3	12.60	1.46	1.37
26	BB	1049	C	N3-C4	-12.60	1.25	1.33
26	BB	2345	G	C2-N3	12.59	1.42	1.32
26	BB	1127	A	N7-C5	-12.59	1.31	1.39
1	AA	1200	C	N1-C6	12.59	1.44	1.37
1	AA	1294	G	C6-N1	12.59	1.48	1.39
25	BA	29	A	N3-C4	12.58	1.42	1.34
1	AA	1257	A	P-O5'	12.57	1.72	1.59
26	BB	2023	C	P-O5'	12.53	1.72	1.59
26	BB	1735	A	N3-C4	12.52	1.42	1.34
26	BB	144	A	N9-C4	12.50	1.45	1.37
26	BB	2795	C	N1-C6	12.49	1.44	1.37
26	BB	487	C	N1-C6	-12.49	1.29	1.37
26	BB	1070	A	N3-C4	12.49	1.42	1.34
25	BA	9	G	C5-C4	-12.47	1.29	1.38
26	BB	794	A	N3-C4	12.47	1.42	1.34
1	AA	1378	C	N1-C6	-12.47	1.29	1.37
26	BB	2201	G	C8-N7	-12.46	1.23	1.30
26	BB	2900	A	C4'-C3'	-12.46	1.39	1.53
26	BB	2256	G	N3-C4	12.41	1.44	1.35
1	AA	27	G	C6-N1	12.40	1.48	1.39
4	AD	60	A	P-O5'	12.37	1.72	1.59
2	AB	25	C	N1-C6	12.36	1.44	1.37
1	AA	1248	A	N7-C5	12.36	1.46	1.39
1	AA	1284	C	N3-C4	12.34	1.42	1.33
1	AA	706	A	N3-C4	12.29	1.42	1.34
1	AA	695	A	N3-C4	12.28	1.42	1.34
26	BB	1286	A	N9-C4	12.26	1.45	1.37
26	BB	1884	G	N7-C5	-12.24	1.31	1.39
26	BB	813	U	C2-N3	12.22	1.46	1.37
26	BB	2810	A	N7-C5	12.22	1.46	1.39
26	BB	1516	G	N7-C5	-12.21	1.31	1.39
26	BB	1435	G	N7-C5	-12.20	1.31	1.39
26	BB	1601	G	N7-C5	12.18	1.46	1.39
26	BB	611	C	P-O5'	12.18	1.72	1.59
26	BB	585	G	N7-C5	-12.17	1.31	1.39
26	BB	2458	G	C2-N3	12.11	1.42	1.32
1	AA	719	C	C2-N3	12.11	1.45	1.35
1	AA	1018	G	C6-N1	12.10	1.48	1.39
26	BB	2850	A	N3-C4	12.08	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	851	C	N1-C6	12.07	1.44	1.37
1	AA	199	A	N3-C4	12.05	1.42	1.34
26	BB	2456	C	N1-C6	12.05	1.44	1.37
1	AA	648	A	N7-C5	12.02	1.46	1.39
26	BB	2205	A	N3-C4	12.01	1.42	1.34
26	BB	2066	C	N3-C4	12.00	1.42	1.33
1	AA	683	G	P-O5'	11.99	1.71	1.59
1	AA	1340	A	P-O5'	11.99	1.71	1.59
26	BB	661	A	C6-N1	11.98	1.44	1.35
26	BB	1198	U	C2-N3	11.97	1.46	1.37
26	BB	155	A	N3-C4	11.94	1.42	1.34
1	AA	1219	A	N7-C5	11.93	1.46	1.39
1	AA	1450	U	P-O5'	11.93	1.71	1.59
26	BB	258	G	C6-N1	11.91	1.47	1.39
1	AA	1302	C	N1-C6	11.90	1.44	1.37
26	BB	838	C	P-O5'	11.90	1.71	1.59
2	AB	2	G	P-O5'	11.89	1.71	1.59
26	BB	1876	A	C8-N7	-11.88	1.23	1.31
26	BB	821	A	N3-C4	11.85	1.42	1.34
1	AA	342	C	C2-N3	11.84	1.45	1.35
26	BB	598	U	P-O5'	11.84	1.71	1.59
1	AA	336	A	C8-N7	-11.83	1.23	1.31
26	BB	2046	G	N7-C5	11.82	1.46	1.39
26	BB	789	A	N3-C4	11.78	1.42	1.34
26	BB	2060	A	N7-C5	-11.75	1.32	1.39
1	AA	497	G	C6-N1	11.74	1.47	1.39
26	BB	670	A	C6-N1	11.74	1.43	1.35
26	BB	112	U	C2-N3	11.73	1.46	1.37
26	BB	362	A	P-O5'	11.73	1.71	1.59
26	BB	2865	U	P-O5'	11.72	1.71	1.59
26	BB	770	G	N1-C2	11.71	1.47	1.37
3	AC	59	A	N9-C8	11.70	1.47	1.37
26	BB	307	G	N7-C5	11.68	1.46	1.39
26	BB	2644	G	P-O5'	11.67	1.71	1.59
26	BB	909	A	C8-N7	-11.66	1.23	1.31
26	BB	2031	A	N9-C4	11.66	1.44	1.37
26	BB	1551	A	N3-C4	11.66	1.41	1.34
26	BB	2162	G	P-O5'	11.64	1.71	1.59
26	BB	1635	A	N3-C4	11.64	1.41	1.34
26	BB	528	A	N3-C4	11.63	1.41	1.34
1	AA	577	G	N7-C5	11.62	1.46	1.39
26	BB	1253	A	N3-C4	11.59	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2034	U	C4-C5	11.58	1.53	1.43
26	BB	2752	C	N3-C4	11.57	1.42	1.33
26	BB	1059	G	N3-C4	11.56	1.43	1.35
1	AA	391	G	P-O5'	11.55	1.71	1.59
26	BB	556	A	N9-C4	11.54	1.44	1.37
1	AA	1471	U	C2-N3	11.54	1.45	1.37
1	AA	652	U	C2-N3	11.53	1.45	1.37
26	BB	2018	G	N1-C2	11.51	1.47	1.37
1	AA	494	G	C6-N1	11.51	1.47	1.39
26	BB	1935	G	N7-C5	-11.51	1.32	1.39
26	BB	1984	G	C6-N1	11.48	1.47	1.39
4	AD	43	G	N7-C5	-11.48	1.32	1.39
26	BB	1864	U	C2-N3	11.48	1.45	1.37
26	BB	95	A	N7-C5	-11.46	1.32	1.39
26	BB	2764	A	N9-C4	11.46	1.44	1.37
26	BB	2017	U	P-O5'	11.44	1.71	1.59
26	BB	2138	G	N7-C5	-11.44	1.32	1.39
1	AA	1050	G	N7-C5	-11.43	1.32	1.39
26	BB	2686	G	C6-N1	11.43	1.47	1.39
26	BB	2077	A	N7-C5	11.43	1.46	1.39
26	BB	1557	C	N1-C6	11.41	1.44	1.37
26	BB	1909	C	N1-C6	11.41	1.44	1.37
26	BB	749	A	N3-C4	11.40	1.41	1.34
26	BB	2878	U	C2-N3	11.38	1.45	1.37
1	AA	8	A	N3-C4	11.37	1.41	1.34
26	BB	1250	G	C2-N3	11.37	1.41	1.32
26	BB	653	U	P-O5'	11.37	1.71	1.59
26	BB	1386	C	N1-C6	11.37	1.44	1.37
26	BB	2386	A	N3-C4	11.36	1.41	1.34
1	AA	1322	C	N1-C6	11.36	1.44	1.37
26	BB	2428	G	P-O5'	11.34	1.71	1.59
26	BB	1627	G	N1-C2	11.33	1.46	1.37
26	BB	1785	A	N7-C5	-11.33	1.32	1.39
26	BB	1640	A	N7-C5	-11.32	1.32	1.39
26	BB	2850	A	C5-C4	-11.32	1.30	1.38
26	BB	2471	A	N7-C5	11.31	1.46	1.39
26	BB	857	G	C6-N1	11.31	1.47	1.39
1	AA	1527	U	C2-N3	11.31	1.45	1.37
26	BB	840	C	P-O5'	11.29	1.71	1.59
26	BB	1342	A	N3-C4	11.29	1.41	1.34
26	BB	792	A	C6-N1	-11.27	1.27	1.35
1	AA	263	A	P-O5'	11.25	1.71	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1053	G	P-O5'	11.25	1.71	1.59
26	BB	516	C	P-O5'	11.25	1.71	1.59
26	BB	601	C	C4-C5	11.25	1.51	1.43
26	BB	644	A	N3-C4	11.25	1.41	1.34
26	BB	2175	C	N1-C6	11.25	1.43	1.37
1	AA	1325	C	N1-C6	11.24	1.43	1.37
26	BB	2802	G	C8-N7	11.22	1.37	1.30
26	BB	2342	C	N1-C6	11.22	1.43	1.37
26	BB	774	G	C2-N3	11.21	1.41	1.32
1	AA	1152	A	N3-C4	11.21	1.41	1.34
25	BA	116	G	C2-N3	11.21	1.41	1.32
1	AA	2	A	N3-C4	11.20	1.41	1.34
1	AA	901	A	P-O5'	11.19	1.71	1.59
26	BB	806	C	N3-C4	11.18	1.41	1.33
2	AB	14	A	N9-C4	-11.18	1.31	1.37
26	BB	461	C	N3-C4	11.18	1.41	1.33
26	BB	199	A	N9-C4	-11.18	1.31	1.37
26	BB	433	C	C2-N3	11.18	1.44	1.35
26	BB	2121	G	C2-N3	11.18	1.41	1.32
26	BB	2753	A	C6-N6	11.18	1.42	1.33
1	AA	948	C	C5-C6	11.16	1.43	1.34
26	BB	69	C	P-O5'	11.15	1.71	1.59
26	BB	1268	A	P-O5'	11.14	1.70	1.59
26	BB	1849	G	N1-C2	11.14	1.46	1.37
1	AA	831	A	N3-C4	11.13	1.41	1.34
26	BB	1614	A	N3-C4	11.13	1.41	1.34
26	BB	2163	A	N3-C4	11.13	1.41	1.34
26	BB	934	U	P-O5'	11.12	1.70	1.59
1	AA	193	C	N1-C6	11.12	1.43	1.37
1	AA	356	A	N3-C4	11.10	1.41	1.34
26	BB	2074	U	C2-N3	11.09	1.45	1.37
1	AA	1353	G	P-O5'	11.09	1.70	1.59
26	BB	2837	A	N9-C4	-11.08	1.31	1.37
26	BB	2675	A	N3-C4	11.07	1.41	1.34
1	AA	692	U	P-O5'	11.07	1.70	1.59
4	AD	26	C	N3-C4	11.07	1.41	1.33
26	BB	1084	A	C8-N7	-11.06	1.23	1.31
1	AA	169	C	N1-C6	11.05	1.43	1.37
1	AA	1525	G	C8-N7	-11.05	1.24	1.30
1	AA	1361	G	N7-C5	11.04	1.45	1.39
26	BB	1801	A	N7-C5	11.04	1.45	1.39
1	AA	1447	A	N7-C5	11.04	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	974	A	N3-C4	11.03	1.41	1.34
25	BA	105	G	C6-N1	11.03	1.47	1.39
1	AA	215	C	N3-C4	11.02	1.41	1.33
26	BB	585	G	P-O5'	11.02	1.70	1.59
26	BB	2211	A	P-O5'	11.01	1.70	1.59
1	AA	1442	G	P-O5'	11.01	1.70	1.59
1	AA	1133	G	N7-C5	11.00	1.45	1.39
26	BB	666	A	C5'-C4'	11.00	1.64	1.51
26	BB	504	A	N3-C4	11.00	1.41	1.34
26	BB	1255	U	C2-N3	10.99	1.45	1.37
26	BB	2609	U	C2-N3	10.99	1.45	1.37
26	BB	626	A	C5-C4	-10.99	1.31	1.38
26	BB	1352	U	C2-N3	10.99	1.45	1.37
26	BB	1169	A	N3-C4	10.98	1.41	1.34
26	BB	252	G	C8-N7	10.98	1.37	1.30
26	BB	1165	A	P-O5'	10.97	1.70	1.59
26	BB	2801	G	C2-N3	10.97	1.41	1.32
26	BB	2600	A	N7-C5	-10.96	1.32	1.39
26	BB	1156	A	N3-C4	10.96	1.41	1.34
26	BB	1374	G	P-O5'	10.95	1.70	1.59
1	AA	666	G	N3-C4	10.95	1.43	1.35
26	BB	898	C	P-O5'	10.95	1.70	1.59
26	BB	2307	G	C5-C4	10.94	1.46	1.38
26	BB	2092	U	C2-N3	10.94	1.45	1.37
1	AA	728	A	C8-N7	-10.94	1.23	1.31
25	BA	76	G	C8-N7	10.93	1.37	1.30
26	BB	2347	C	N1-C6	10.93	1.43	1.37
1	AA	1085	U	C2-N3	10.92	1.45	1.37
26	BB	1336	A	N3-C4	10.92	1.41	1.34
26	BB	920	A	P-O5'	10.90	1.70	1.59
26	BB	311	A	N9-C4	10.90	1.44	1.37
26	BB	1634	A	N3-C4	10.90	1.41	1.34
26	BB	2529	G	N1-C2	10.89	1.46	1.37
26	BB	1035	U	C2-N3	10.89	1.45	1.37
26	BB	1806	C	N1-C6	10.89	1.43	1.37
3	AC	38	G	P-O5'	10.89	1.70	1.59
26	BB	350	G	N7-C5	10.88	1.45	1.39
1	AA	550	G	N7-C5	-10.88	1.32	1.39
26	BB	423	A	N9-C4	-10.87	1.31	1.37
26	BB	2094	A	N9-C4	10.88	1.44	1.37
1	AA	731	G	P-O5'	10.87	1.70	1.59
26	BB	1348	C	N1-C6	10.87	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	31	C	N1-C6	10.86	1.43	1.37
26	BB	515	A	C6-N6	10.86	1.42	1.33
26	BB	2509	G	N3-C4	10.86	1.43	1.35
26	BB	2293	G	P-O5'	10.85	1.70	1.59
26	BB	2455	G	C8-N7	10.85	1.37	1.30
26	BB	2571	U	O3'-P	10.85	1.74	1.61
1	AA	1296	C	N1-C6	10.84	1.43	1.37
1	AA	265	G	N7-C5	-10.82	1.32	1.39
26	BB	321	U	C4-C5	10.82	1.53	1.43
26	BB	1982	U	C2-N3	10.82	1.45	1.37
1	AA	360	G	C2-N3	10.81	1.41	1.32
26	BB	727	A	N9-C4	10.81	1.44	1.37
26	BB	2727	A	C8-N7	-10.80	1.24	1.31
26	BB	2431	U	C2-N3	10.79	1.45	1.37
26	BB	2590	A	N3-C4	10.79	1.41	1.34
26	BB	7	G	N3-C4	10.79	1.43	1.35
26	BB	810	U	C4-O4	10.79	1.32	1.23
26	BB	2191	A	N3-C4	10.79	1.41	1.34
25	BA	119	A	C5'-C4'	10.78	1.64	1.51
26	BB	2100	G	N7-C5	10.78	1.45	1.39
26	BB	2862	G	P-O5'	10.78	1.70	1.59
1	AA	781	A	C6-N6	10.77	1.42	1.33
4	AD	30	G	N1-C2	10.77	1.46	1.37
26	BB	2850	A	C8-N7	-10.76	1.24	1.31
2	AB	4	G	N7-C5	-10.75	1.32	1.39
26	BB	1663	G	C6-N1	10.74	1.47	1.39
4	AD	16	C	N3-C4	10.74	1.41	1.33
26	BB	1862	G	C2-N3	10.74	1.41	1.32
26	BB	1881	C	C2-N3	10.73	1.44	1.35
1	AA	577	G	N1-C2	10.72	1.46	1.37
26	BB	2307	G	C6-N1	10.70	1.47	1.39
26	BB	2158	A	N3-C4	10.69	1.41	1.34
26	BB	2211	A	N3-C4	10.69	1.41	1.34
1	AA	535	A	C5-C4	-10.67	1.31	1.38
26	BB	74	A	N3-C4	10.67	1.41	1.34
26	BB	1371	G	C5'-C4'	10.67	1.64	1.51
1	AA	1222	G	P-O5'	10.66	1.70	1.59
26	BB	2009	A	C8-N7	-10.66	1.24	1.31
26	BB	2720	U	C2-N3	10.66	1.45	1.37
26	BB	546	U	C3'-C2'	10.65	1.64	1.52
26	BB	1876	A	N3-C4	10.63	1.41	1.34
26	BB	1076	C	N1-C6	10.63	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	845	A	P-O5'	10.62	1.70	1.59
1	AA	108	G	C6-N1	10.61	1.47	1.39
26	BB	986	C	C2-N3	10.61	1.44	1.35
1	AA	1231	G	N9-C8	10.61	1.45	1.37
26	BB	631	A	N7-C5	-10.61	1.32	1.39
26	BB	2458	G	C8-N7	-10.60	1.24	1.30
25	BA	102	G	C6-N1	10.60	1.47	1.39
1	AA	25	C	C4-N4	10.59	1.43	1.33
1	AA	779	C	N1-C6	10.59	1.43	1.37
1	AA	1109	C	N1-C6	-10.59	1.30	1.37
26	BB	997	G	N1-C2	10.59	1.46	1.37
26	BB	2335	A	C5-C4	-10.58	1.31	1.38
26	BB	1367	A	N3-C4	10.57	1.41	1.34
26	BB	2776	A	N7-C5	10.57	1.45	1.39
26	BB	2009	A	N9-C4	10.54	1.44	1.37
1	AA	445	G	C2-N3	10.54	1.41	1.32
26	BB	736	C	P-O5'	10.54	1.70	1.59
1	AA	1319	A	N7-C5	10.54	1.45	1.39
26	BB	1252	G	C5-C4	-10.53	1.30	1.38
26	BB	1620	G	C8-N7	10.53	1.37	1.30
26	BB	1737	G	N3-C4	10.53	1.42	1.35
26	BB	2717	C	P-O5'	10.52	1.70	1.59
1	AA	134	G	P-O5'	10.52	1.70	1.59
26	BB	1496	A	C6-N1	-10.52	1.28	1.35
26	BB	1512	C	N1-C6	10.52	1.43	1.37
26	BB	2205	A	C4'-O4'	-10.52	1.31	1.45
1	AA	141	G	N9-C8	-10.51	1.30	1.37
26	BB	883	G	C8-N7	10.50	1.37	1.30
1	AA	62	U	C2-N3	-10.50	1.30	1.37
26	BB	1490	A	N3-C4	-10.49	1.28	1.34
26	BB	2406	A	P-O5'	10.49	1.70	1.59
1	AA	1179	A	N3-C4	10.49	1.41	1.34
26	BB	715	A	N3-C4	10.49	1.41	1.34
26	BB	2137	U	C2-N3	10.48	1.45	1.37
26	BB	139	U	C2-N3	10.47	1.45	1.37
1	AA	101	A	N7-C5	10.47	1.45	1.39
1	AA	688	G	N1-C2	10.47	1.46	1.37
26	BB	2392	A	N3-C4	10.47	1.41	1.34
3	AC	55	A	N3-C4	10.46	1.41	1.34
1	AA	740	U	C4-C5	10.46	1.52	1.43
26	BB	2809	A	C8-N7	-10.46	1.24	1.31
26	BB	4	U	C2-N3	10.44	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2398	U	C2-N3	10.43	1.45	1.37
26	BB	1477	A	C5'-C4'	10.43	1.63	1.51
26	BB	2136	G	C4'-C3'	10.43	1.64	1.53
2	AB	63	C	N1-C6	10.43	1.43	1.37
1	AA	1411	C	N3-C4	10.42	1.41	1.33
26	BB	1677	A	N9-C4	10.42	1.44	1.37
1	AA	1045	C	N1-C6	10.41	1.43	1.37
1	AA	546	A	N7-C5	10.41	1.45	1.39
1	AA	327	A	C8-N7	-10.40	1.24	1.31
1	AA	794	A	C5'-C4'	10.39	1.63	1.51
26	BB	2796	U	C2-N3	10.38	1.45	1.37
1	AA	1236	A	N7-C5	10.38	1.45	1.39
26	BB	307	G	N1-C2	10.38	1.46	1.37
26	BB	1164	C	N1-C6	10.38	1.43	1.37
25	BA	64	G	P-O5'	10.37	1.70	1.59
26	BB	2150	C	P-O5'	10.37	1.70	1.59
1	AA	558	G	P-O5'	10.37	1.70	1.59
1	AA	561	U	N1-C2	10.37	1.47	1.38
26	BB	841	G	C6-N1	10.36	1.46	1.39
26	BB	189	G	N7-C5	10.35	1.45	1.39
1	AA	1042	A	C6-N1	-10.35	1.28	1.35
1	AA	890	G	C2-N3	10.34	1.41	1.32
26	BB	1189	A	N1-C2	10.34	1.43	1.34
26	BB	70	G	C8-N7	-10.34	1.24	1.30
26	BB	1298	C	N1-C6	10.33	1.43	1.37
1	AA	1228	C	C4-C5	10.33	1.51	1.43
26	BB	1637	A	N3-C4	10.33	1.41	1.34
1	AA	378	G	C6-N1	10.33	1.46	1.39
1	AA	13	U	C2-N3	10.32	1.45	1.37
26	BB	2886	A	N7-C5	10.32	1.45	1.39
1	AA	244	U	C2-N3	10.32	1.45	1.37
26	BB	1270	C	C5'-C4'	10.32	1.63	1.51
26	BB	1901	A	N3-C4	10.32	1.41	1.34
1	AA	438	U	P-O5'	10.31	1.70	1.59
26	BB	1894	C	N1-C6	10.31	1.43	1.37
26	BB	422	A	N9-C4	-10.31	1.31	1.37
26	BB	2582	G	C4'-O4'	-10.30	1.32	1.45
26	BB	639	U	C2-N3	10.30	1.45	1.37
26	BB	612	G	N9-C4	10.29	1.46	1.38
26	BB	347	A	N3-C4	10.28	1.41	1.34
26	BB	316	C	C4-C5	10.28	1.51	1.43
1	AA	1405	G	P-O5'	-10.28	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2191	A	P-O5'	10.27	1.70	1.59
3	AC	37	G	C6-N1	10.27	1.46	1.39
1	AA	1095	U	C2-N3	10.26	1.45	1.37
26	BB	479	A	C6-N1	-10.26	1.28	1.35
1	AA	1507	A	C4'-C3'	10.26	1.64	1.53
26	BB	1906	G	N9-C8	-10.25	1.30	1.37
26	BB	561	G	C2'-C1'	-10.25	1.42	1.53
26	BB	1149	G	O3'-P	10.24	1.73	1.61
26	BB	2897	U	O3'-P	10.23	1.73	1.61
1	AA	282	A	C8-N7	-10.23	1.24	1.31
1	AA	1226	C	C5-C6	10.23	1.42	1.34
1	AA	350	G	P-O5'	10.22	1.70	1.59
1	AA	587	G	N3-C4	10.22	1.42	1.35
1	AA	183	C	N1-C6	10.22	1.43	1.37
26	BB	175	G	C3'-C2'	10.21	1.64	1.52
26	BB	1285	A	C8-N7	-10.21	1.24	1.31
26	BB	195	A	C8-N7	-10.20	1.24	1.31
26	BB	1092	C	C2-N3	10.20	1.44	1.35
1	AA	801	U	P-O5'	10.19	1.70	1.59
26	BB	2425	A	N9-C4	10.19	1.44	1.37
1	AA	262	A	N3-C4	10.19	1.41	1.34
26	BB	1016	G	N3-C4	10.19	1.42	1.35
26	BB	753	A	O3'-P	10.19	1.73	1.61
1	AA	182	A	C8-N7	-10.18	1.24	1.31
1	AA	520	A	N3-C4	10.18	1.41	1.34
26	BB	689	A	N7-C5	-10.18	1.33	1.39
4	AD	58	A	C6-N6	10.17	1.42	1.33
26	BB	2216	G	C8-N7	-10.17	1.24	1.30
26	BB	160	A	N3-C4	10.16	1.41	1.34
26	BB	2346	A	C6-N6	10.15	1.42	1.33
26	BB	2734	A	N3-C4	10.15	1.41	1.34
1	AA	1250	A	N3-C4	10.14	1.41	1.34
26	BB	2672	U	C2-N3	10.14	1.44	1.37
1	AA	327	A	P-O5'	10.14	1.69	1.59
26	BB	321	U	P-O5'	10.13	1.69	1.59
26	BB	1116	G	N7-C5	-10.13	1.33	1.39
1	AA	211	G	C5'-C4'	10.13	1.63	1.51
1	AA	539	A	N3-C4	10.13	1.41	1.34
26	BB	2896	C	C2-N3	10.13	1.43	1.35
26	BB	2087	G	C2-N3	10.13	1.40	1.32
25	BA	43	C	N1-C6	10.12	1.43	1.37
1	AA	786	G	N1-C2	10.12	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1045	C	P-O5'	10.11	1.69	1.59
1	AA	731	G	N7-C5	10.11	1.45	1.39
26	BB	244	A	N3-C4	10.11	1.41	1.34
26	BB	1777	U	N1-C2	10.11	1.47	1.38
26	BB	339	U	C2-N3	10.10	1.44	1.37
26	BB	692	C	N1-C6	10.10	1.43	1.37
26	BB	2790	U	O3'-P	10.10	1.73	1.61
26	BB	1930	G	N7-C5	-10.09	1.33	1.39
26	BB	2496	C	C5-C6	10.09	1.42	1.34
26	BB	2436	G	P-O5'	10.09	1.69	1.59
26	BB	2509	G	N7-C5	10.09	1.45	1.39
26	BB	2421	G	N7-C5	-10.08	1.33	1.39
26	BB	394	C	N3-C4	10.08	1.41	1.33
26	BB	2657	A	N3-C4	10.08	1.40	1.34
1	AA	432	A	N7-C5	10.07	1.45	1.39
1	AA	16	A	N3-C4	10.07	1.40	1.34
26	BB	1598	A	N3-C4	10.07	1.40	1.34
1	AA	532	A	N7-C5	-10.07	1.33	1.39
26	BB	526	A	P-O5'	10.06	1.69	1.59
1	AA	1473	G	N3-C4	10.06	1.42	1.35
1	AA	107	G	N1-C2	10.06	1.45	1.37
1	AA	703	G	P-O5'	10.06	1.69	1.59
26	BB	731	C	N1-C6	10.06	1.43	1.37
1	AA	11	G	N1-C2	10.06	1.45	1.37
1	AA	1003	G	P-O5'	10.05	1.69	1.59
26	BB	459	U	C4-C5	10.05	1.52	1.43
1	AA	1112	C	P-O5'	10.05	1.69	1.59
26	BB	2888	C	N1-C6	10.04	1.43	1.37
1	AA	1399	C	N3-C4	10.04	1.41	1.33
26	BB	270	A	N7-C5	10.04	1.45	1.39
26	BB	2392	A	N9-C4	10.04	1.43	1.37
26	BB	2723	C	P-O5'	10.03	1.69	1.59
26	BB	1313	U	N1-C2	10.03	1.47	1.38
26	BB	1787	A	N3-C4	10.02	1.40	1.34
26	BB	918	A	N7-C5	-10.01	1.33	1.39
26	BB	1439	A	N9-C4	-10.01	1.31	1.37
26	BB	301	G	C2-N3	10.01	1.40	1.32
4	AD	10	G	C6-N1	-10.01	1.32	1.39
26	BB	893	C	P-O5'	10.01	1.69	1.59
1	AA	637	C	C2-N3	10.00	1.43	1.35
1	AA	1059	C	C2-N3	10.00	1.43	1.35
1	AA	208	U	C5'-C4'	9.99	1.63	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	185	U	C5-C6	9.99	1.43	1.34
4	AD	39	A	O3'-P	9.99	1.73	1.61
3	AC	15	G	N3-C4	9.99	1.42	1.35
26	BB	1462	C	C4-C5	-9.99	1.34	1.43
26	BB	2616	C	C5'-C4'	9.99	1.63	1.51
26	BB	1549	A	N3-C4	9.98	1.40	1.34
26	BB	1920	C	N1-C6	9.98	1.43	1.37
1	AA	951	G	N9-C4	-9.98	1.29	1.38
26	BB	1323	C	N1-C6	-9.97	1.31	1.37
26	BB	1064	C	P-O5'	9.96	1.69	1.59
26	BB	1085	A	N9-C8	-9.96	1.29	1.37
1	AA	889	A	N3-C4	9.96	1.40	1.34
1	AA	1003	G	C5-C4	-9.96	1.31	1.38
1	AA	511	C	P-O5'	9.95	1.69	1.59
26	BB	1886	U	C5-C6	9.95	1.43	1.34
1	AA	1156	G	C2-N3	9.95	1.40	1.32
2	AB	36	A	P-O5'	9.95	1.69	1.59
1	AA	515	G	N9-C8	9.95	1.44	1.37
1	AA	360	G	C8-N7	-9.94	1.25	1.30
26	BB	562	U	C4-O4	-9.94	1.15	1.23
26	BB	2613	U	P-O5'	9.94	1.69	1.59
1	AA	171	A	N7-C5	-9.92	1.33	1.39
26	BB	365	U	O3'-P	9.92	1.73	1.61
1	AA	19	A	N3-C4	9.92	1.40	1.34
1	AA	552	U	N1-C2	9.92	1.47	1.38
1	AA	601	G	N3-C4	9.91	1.42	1.35
26	BB	224	U	C2-N3	9.91	1.44	1.37
26	BB	1851	U	P-O5'	9.91	1.69	1.59
1	AA	666	G	N9-C8	-9.90	1.30	1.37
26	BB	2764	A	P-O5'	9.90	1.69	1.59
1	AA	1418	A	N3-C4	9.90	1.40	1.34
26	BB	1387	A	C8-N7	-9.90	1.24	1.31
26	BB	2452	C	N1-C6	9.90	1.43	1.37
25	BA	7	G	N7-C5	-9.90	1.33	1.39
1	AA	1271	A	N3-C4	9.89	1.40	1.34
26	BB	1666	G	C6-N1	9.89	1.46	1.39
26	BB	2559	C	C4-C5	9.89	1.50	1.43
26	BB	2737	G	C2-N3	9.89	1.40	1.32
26	BB	2403	C	C4-C5	-9.89	1.35	1.43
1	AA	938	A	N9-C4	9.88	1.43	1.37
1	AA	967	5MC	O3'-P	9.88	1.73	1.61
25	BA	3	C	N1-C6	9.88	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2343	U	C2-N3	9.88	1.44	1.37
26	BB	920	A	C8-N7	-9.88	1.24	1.31
1	AA	13	U	C4-O4	-9.87	1.15	1.23
1	AA	759	A	N3-C4	9.88	1.40	1.34
1	AA	1173	U	C2-N3	9.88	1.44	1.37
1	AA	1380	U	C5'-C4'	9.88	1.63	1.51
26	BB	345	A	C6-N1	-9.87	1.28	1.35
26	BB	2331	G	C5'-C4'	9.87	1.63	1.51
1	AA	1039	G	N3-C4	9.86	1.42	1.35
26	BB	2179	C	P-O5'	9.86	1.69	1.59
26	BB	335	C	C2-O2	-9.86	1.15	1.24
26	BB	1106	G	N7-C5	9.86	1.45	1.39
26	BB	1496	A	N3-C4	9.86	1.40	1.34
26	BB	2517	C	N1-C6	9.86	1.43	1.37
26	BB	1227	G	N7-C5	-9.85	1.33	1.39
26	BB	2813	A	N9-C4	9.85	1.43	1.37
26	BB	1889	A	C2-N3	-9.85	1.24	1.33
26	BB	878	A	N3-C4	9.85	1.40	1.34
26	BB	1085	A	N3-C4	9.85	1.40	1.34
26	BB	1205	A	C8-N7	-9.84	1.24	1.31
26	BB	748	G	C2-N3	9.84	1.40	1.32
26	BB	948	C	N1-C6	-9.84	1.31	1.37
26	BB	1382	G	N7-C5	-9.84	1.33	1.39
26	BB	2745	C	C5-C6	9.84	1.42	1.34
26	BB	815	C	N1-C6	9.83	1.43	1.37
26	BB	952	G	C6-N1	9.83	1.46	1.39
1	AA	35	G	C8-N7	9.82	1.36	1.30
1	AA	1466	C	N3-C4	9.82	1.40	1.33
26	BB	734	A	N9-C4	9.82	1.43	1.37
1	AA	783	C	N1-C6	9.82	1.43	1.37
1	AA	1191	A	N9-C4	-9.81	1.31	1.37
1	AA	1219	A	N3-C4	9.80	1.40	1.34
26	BB	2140	G	P-O5'	9.80	1.69	1.59
26	BB	24	G	C2-N3	9.80	1.40	1.32
26	BB	177	G	C6-N1	9.80	1.46	1.39
26	BB	1576	U	P-O5'	9.80	1.69	1.59
1	AA	1271	A	N7-C5	-9.79	1.33	1.39
26	BB	2083	G	N3-C4	9.79	1.42	1.35
26	BB	514	A	P-O5'	9.79	1.69	1.59
1	AA	564	C	P-O5'	9.79	1.69	1.59
26	BB	150	U	P-O5'	9.79	1.69	1.59
26	BB	1639	C	N1-C6	9.79	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1938	A	P-O5'	9.78	1.69	1.59
26	BB	262	A	C5-C4	-9.78	1.31	1.38
26	BB	329	G	C2-N3	9.78	1.40	1.32
4	AD	74	A	N9-C4	9.77	1.43	1.37
25	BA	66	A	C2-N3	9.77	1.42	1.33
1	AA	55	A	N7-C5	9.77	1.45	1.39
26	BB	553	G	N9-C8	9.77	1.44	1.37
26	BB	1840	G	N7-C5	9.77	1.45	1.39
26	BB	970	U	C2-N3	9.77	1.44	1.37
1	AA	1012	A	N3-C4	9.77	1.40	1.34
1	AA	940	C	P-O5'	9.76	1.69	1.59
26	BB	1711	A	N3-C4	9.76	1.40	1.34
26	BB	2373	G	N3-C4	9.76	1.42	1.35
26	BB	455	C	N1-C6	9.76	1.43	1.37
26	BB	1697	G	O3'-P	9.76	1.72	1.61
26	BB	2243	U	C2-N3	9.76	1.44	1.37
1	AA	1169	A	N7-C5	9.75	1.45	1.39
1	AA	443	C	N1-C6	9.75	1.43	1.37
26	BB	2284	A	N7-C5	9.74	1.45	1.39
26	BB	2317	A	N9-C4	9.74	1.43	1.37
26	BB	979	A	N9-C4	9.74	1.43	1.37
26	BB	1626	A	N3-C4	9.74	1.40	1.34
26	BB	2678	C	P-O5'	9.74	1.69	1.59
1	AA	1177	G	C8-N7	-9.73	1.25	1.30
26	BB	44	A	N7-C5	-9.73	1.33	1.39
26	BB	2661	G	C2-N3	9.73	1.40	1.32
26	BB	2706	A	C6-N1	9.73	1.42	1.35
26	BB	174	U	C2-N3	9.72	1.44	1.37
1	AA	132	C	C5-C6	9.72	1.42	1.34
1	AA	1083	U	C2'-C1'	9.72	1.64	1.53
26	BB	1747	U	P-O5'	9.72	1.69	1.59
26	BB	2167	U	N3-C4	9.72	1.47	1.38
26	BB	2731	G	C8-N7	-9.72	1.25	1.30
1	AA	513	C	C5-C6	9.71	1.42	1.34
26	BB	1440	U	C2-N3	9.71	1.44	1.37
1	AA	324	G	N7-C5	-9.71	1.33	1.39
1	AA	1323	G	N3-C4	9.71	1.42	1.35
26	BB	2844	G	P-O5'	9.70	1.69	1.59
26	BB	207	A	O3'-P	9.70	1.72	1.61
26	BB	2861	U	C2-N3	9.70	1.44	1.37
26	BB	2240	U	P-O5'	9.69	1.69	1.59
1	AA	1172	C	P-O5'	9.69	1.69	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	75	C	P-O5'	9.69	1.69	1.59
26	BB	1588	G	N9-C8	-9.69	1.31	1.37
26	BB	2610	C	N1-C6	9.69	1.43	1.37
26	BB	55	G	C6-N1	-9.69	1.32	1.39
26	BB	1955	U	N1-C2	9.68	1.47	1.38
26	BB	2138	G	C6-O6	-9.68	1.15	1.24
2	AB	12	U	C2-N3	9.67	1.44	1.37
26	BB	966	G	N9-C8	9.67	1.44	1.37
26	BB	2554	U	C5'-C4'	9.67	1.62	1.51
1	AA	134	G	C6-N1	-9.66	1.32	1.39
1	AA	667	G	C5-C4	-9.66	1.31	1.38
1	AA	1501	C	P-O5'	9.65	1.69	1.59
1	AA	465	A	N3-C4	9.65	1.40	1.34
26	BB	2080	A	N3-C4	9.65	1.40	1.34
1	AA	840	C	N1-C6	9.64	1.43	1.37
26	BB	498	G	N3-C4	9.64	1.42	1.35
1	AA	1225	A	N7-C5	9.64	1.45	1.39
26	BB	888	C	C2-O2	-9.64	1.15	1.24
1	AA	1165	U	N1-C2	9.63	1.47	1.38
26	BB	2311	A	C8-N7	-9.64	1.24	1.31
26	BB	824	U	C2-N3	9.63	1.44	1.37
1	AA	870	U	C2-N3	9.63	1.44	1.37
1	AA	2	A	N7-C5	9.62	1.45	1.39
26	BB	781	A	O3'-P	9.62	1.72	1.61
26	BB	1333	G	N1-C2	9.62	1.45	1.37
1	AA	457	G	C4'-O4'	-9.61	1.33	1.45
1	AA	782	A	N3-C4	9.61	1.40	1.34
1	AA	1389	C	C4-C5	-9.61	1.35	1.43
1	AA	133	U	P-O5'	9.60	1.69	1.59
1	AA	308	C	N1-C6	9.60	1.43	1.37
1	AA	735	C	C2'-C1'	9.60	1.64	1.53
26	BB	415	A	P-O5'	9.60	1.69	1.59
26	BB	245	G	C2-N3	9.59	1.40	1.32
1	AA	1150	A	N7-C5	9.59	1.45	1.39
26	BB	2298	A	C5-C4	-9.59	1.32	1.38
26	BB	2645	G	N1-C2	9.59	1.45	1.37
26	BB	123	G	P-O5'	9.58	1.69	1.59
26	BB	2780	G	N9-C8	9.58	1.44	1.37
1	AA	1538	C	C4-C5	9.57	1.50	1.43
1	AA	818	G	C6-N1	9.57	1.46	1.39
26	BB	2898	U	C2-N3	9.57	1.44	1.37
26	BB	2655	G	N7-C5	9.57	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	271	G	N7-C5	9.56	1.45	1.39
26	BB	2758	A	C5'-C4'	9.56	1.62	1.51
26	BB	659	G	P-O5'	9.56	1.69	1.59
1	AA	1093	A	C2'-C1'	-9.55	1.42	1.53
26	BB	554	U	P-O5'	9.55	1.69	1.59
26	BB	2346	A	C5-C4	-9.55	1.32	1.38
26	BB	2468	A	N9-C4	-9.55	1.32	1.37
26	BB	1408	G	C8-N7	-9.55	1.25	1.30
1	AA	978	A	C6-N1	9.55	1.42	1.35
26	BB	888	C	C5-C6	9.54	1.42	1.34
26	BB	916	G	N9-C8	9.54	1.44	1.37
26	BB	1973	G	C6-N1	9.54	1.46	1.39
26	BB	2371	G	P-O5'	9.54	1.69	1.59
1	AA	1235	U	P-O5'	9.54	1.69	1.59
26	BB	456	C	N1-C6	-9.54	1.31	1.37
26	BB	2466	C	P-O5'	9.54	1.69	1.59
1	AA	358	U	C2-N3	-9.53	1.31	1.37
26	BB	300	A	N3-C4	9.54	1.40	1.34
2	AB	13	C	O3'-P	9.53	1.72	1.61
26	BB	2893	A	C5'-C4'	9.53	1.62	1.51
1	AA	1032	G	N9-C4	9.53	1.45	1.38
26	BB	1532	A	N3-C4	9.53	1.40	1.34
1	AA	160	A	N3-C4	9.52	1.40	1.34
1	AA	422	C	C2-N3	9.52	1.43	1.35
25	BA	34	A	C5-C6	9.52	1.49	1.41
26	BB	1310	G	N7-C5	9.52	1.45	1.39
1	AA	257	G	C6-N1	9.51	1.46	1.39
1	AA	1086	U	O3'-P	9.51	1.72	1.61
26	BB	1270	C	N1-C6	9.51	1.42	1.37
26	BB	1144	A	N3-C4	9.51	1.40	1.34
26	BB	2016	U	C2-N3	9.51	1.44	1.37
26	BB	1324	G	C5'-C4'	9.51	1.62	1.51
26	BB	1388	G	P-O5'	9.50	1.69	1.59
1	AA	1193	G	P-O5'	9.50	1.69	1.59
26	BB	2284	A	P-O5'	9.50	1.69	1.59
26	BB	2370	G	C2-N3	9.49	1.40	1.32
1	AA	525	C	C4-N4	-9.49	1.25	1.33
3	AC	57	C	N1-C6	9.49	1.42	1.37
26	BB	831	G	N7-C5	-9.49	1.33	1.39
26	BB	1299	G	C2-N3	9.49	1.40	1.32
1	AA	667	G	P-O5'	9.49	1.69	1.59
1	AA	1103	C	O3'-P	9.48	1.72	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	28	C	C4-N4	9.48	1.42	1.33
1	AA	1457	G	P-O5'	9.47	1.69	1.59
26	BB	637	A	N7-C5	9.47	1.45	1.39
26	BB	799	G	C6-N1	-9.47	1.32	1.39
26	BB	1879	C	N1-C6	9.47	1.42	1.37
1	AA	953	G	C8-N7	-9.47	1.25	1.30
26	BB	1637	A	P-O5'	9.47	1.69	1.59
1	AA	67	C	C5-C6	9.47	1.42	1.34
3	AC	43	U	P-O5'	9.47	1.69	1.59
26	BB	1613	G	N7-C5	-9.47	1.33	1.39
1	AA	813	U	P-O5'	-9.46	1.50	1.59
26	BB	1417	C	C4'-C3'	9.46	1.63	1.53
1	AA	49	U	N3-C4	9.46	1.47	1.38
1	AA	1253	G	N9-C8	-9.46	1.31	1.37
26	BB	2466	C	N1-C6	9.46	1.42	1.37
26	BB	2616	C	N1-C2	9.45	1.49	1.40
26	BB	2200	C	P-O5'	9.45	1.69	1.59
26	BB	2261	C	C2-N3	9.45	1.43	1.35
26	BB	515	A	N3-C4	9.45	1.40	1.34
26	BB	2077	A	P-O5'	9.45	1.69	1.59
26	BB	2273	A	C8-N7	-9.45	1.25	1.31
3	AC	42	U	N1-C2	9.44	1.47	1.38
26	BB	589	U	P-O5'	9.44	1.69	1.59
26	BB	1768	C	P-O5'	9.44	1.69	1.59
26	BB	76	C	N3-C4	9.44	1.40	1.33
26	BB	802	A	N3-C4	9.44	1.40	1.34
26	BB	301	G	N3-C4	9.44	1.42	1.35
26	BB	369	U	C4'-O4'	-9.44	1.33	1.45
26	BB	617	G	N1-C2	9.44	1.45	1.37
26	BB	1105	U	C4-C5	9.44	1.52	1.43
26	BB	1119	U	C2-N3	9.44	1.44	1.37
26	BB	2648	G	P-O5'	9.44	1.69	1.59
26	BB	172	A	P-O5'	-9.43	1.50	1.59
26	BB	1572	A	N3-C4	9.43	1.40	1.34
1	AA	1323	G	C2-N3	9.42	1.40	1.32
26	BB	2512	C	P-O5'	9.42	1.69	1.59
26	BB	2699	C	C5-C6	9.42	1.41	1.34
26	BB	595	C	N1-C6	9.42	1.42	1.37
1	AA	654	G	N3-C4	9.41	1.42	1.35
26	BB	1002	G	N3-C4	9.41	1.42	1.35
26	BB	2864	G	N7-C5	-9.41	1.33	1.39
26	BB	1271	G	N9-C8	9.40	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2064	C	N1-C6	9.40	1.42	1.37
26	BB	706	A	N7-C5	-9.40	1.33	1.39
26	BB	169	G	C5-C6	9.40	1.51	1.42
26	BB	1996	C	N1-C6	-9.40	1.31	1.37
26	BB	1757	A	C6-N1	-9.39	1.28	1.35
26	BB	705	A	N3-C4	9.39	1.40	1.34
26	BB	2013	A	N3-C4	9.39	1.40	1.34
26	BB	2711	A	N3-C4	9.39	1.40	1.34
26	BB	1284	A	C6-N6	-9.38	1.26	1.33
26	BB	1201	U	C2-N3	9.38	1.44	1.37
1	AA	210	C	P-O5'	9.37	1.69	1.59
1	AA	343	U	C2-N3	9.37	1.44	1.37
1	AA	1260	G	N3-C4	9.37	1.42	1.35
1	AA	793	U	P-O5'	9.36	1.69	1.59
26	BB	1180	U	C3'-C2'	9.36	1.63	1.52
26	BB	1839	G	C6-N1	9.36	1.46	1.39
1	AA	485	U	C4'-C3'	9.35	1.63	1.53
26	BB	504	A	N7-C5	-9.35	1.33	1.39
26	BB	1866	A	N9-C4	9.35	1.43	1.37
26	BB	1975	G	C5-C4	-9.35	1.31	1.38
1	AA	907	A	P-O5'	9.34	1.69	1.59
1	AA	497	G	N3-C4	9.34	1.42	1.35
26	BB	554	U	C4'-O4'	-9.34	1.33	1.45
26	BB	1953	A	C5'-C4'	9.34	1.62	1.51
1	AA	9	G	C2-N3	9.33	1.40	1.32
26	BB	1552	A	P-O5'	9.33	1.69	1.59
1	AA	716	A	C5-C4	-9.33	1.32	1.38
1	AA	1023	U	C2-N3	9.33	1.44	1.37
26	BB	76	C	C5-C6	9.33	1.41	1.34
1	AA	559	A	N7-C5	9.33	1.44	1.39
26	BB	849	A	N3-C4	9.33	1.40	1.34
1	AA	19	A	C6-N1	-9.32	1.29	1.35
26	BB	2892	G	N3-C4	9.32	1.42	1.35
4	AD	63	C	O3'-P	9.32	1.72	1.61
26	BB	2370	G	C8-N7	9.32	1.36	1.30
1	AA	1156	G	P-O5'	9.32	1.69	1.59
1	AA	625	U	C5-C6	-9.32	1.25	1.34
26	BB	2294	G	N9-C8	-9.32	1.31	1.37
1	AA	252	U	P-O5'	9.31	1.69	1.59
26	BB	1346	G	P-O5'	9.31	1.69	1.59
26	BB	760	G	O3'-P	9.30	1.72	1.61
26	BB	2050	C	C5-C6	9.29	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1039	A	N7-C5	9.29	1.44	1.39
26	BB	469	G	C2'-C1'	9.29	1.63	1.53
1	AA	1494	G	P-O5'	9.28	1.69	1.59
26	BB	523	C	C2-N3	9.28	1.43	1.35
26	BB	882	G	N3-C4	9.28	1.42	1.35
1	AA	657	U	P-O5'	-9.28	1.50	1.59
1	AA	1063	C	C4-C5	9.28	1.50	1.43
26	BB	2105	U	P-O5'	9.28	1.69	1.59
26	BB	1932	A	P-O5'	9.27	1.69	1.59
26	BB	2100	G	C2-N3	9.27	1.40	1.32
26	BB	537	G	C8-N7	9.27	1.36	1.30
26	BB	1334	G	N3-C4	9.27	1.42	1.35
26	BB	2166	U	P-O5'	9.27	1.69	1.59
26	BB	1754	A	C3'-C2'	-9.27	1.42	1.52
1	AA	127	G	N7-C5	9.26	1.44	1.39
1	AA	646	G	N3-C4	9.26	1.42	1.35
26	BB	140	C	N1-C6	9.26	1.42	1.37
26	BB	2157	G	C3'-C2'	9.26	1.63	1.52
26	BB	486	C	P-O5'	9.26	1.69	1.59
3	AC	56	G	N9-C4	9.26	1.45	1.38
26	BB	2877	G	C2'-C1'	9.26	1.63	1.53
1	AA	468	A	N9-C8	-9.25	1.30	1.37
1	AA	883	C	P-O5'	9.25	1.69	1.59
26	BB	1167	C	C4-C5	9.25	1.50	1.43
26	BB	681	G	P-O5'	9.25	1.69	1.59
26	BB	2153	C	N1-C6	9.25	1.42	1.37
1	AA	373	A	N3-C4	9.25	1.40	1.34
26	BB	298	G	N3-C4	9.25	1.42	1.35
26	BB	1619	G	C6-N1	9.25	1.46	1.39
26	BB	1764	C	N1-C6	9.25	1.42	1.37
1	AA	1029	U	C2-N3	9.25	1.44	1.37
26	BB	763	G	N3-C4	9.24	1.42	1.35
26	BB	2345	G	C8-N7	-9.24	1.25	1.30
26	BB	2623	G	C6-N1	-9.24	1.33	1.39
1	AA	320	A	P-O5'	9.24	1.69	1.59
1	AA	792	A	N7-C5	9.24	1.44	1.39
26	BB	581	C	C2-N3	9.24	1.43	1.35
3	AC	50	U	C4'-O4'	-9.23	1.33	1.45
26	BB	1184	U	O3'-P	-9.23	1.50	1.61
25	BA	86	G	O3'-P	9.23	1.72	1.61
26	BB	623	C	C5-C6	9.23	1.41	1.34
26	BB	558	U	C2-N3	9.22	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1308	A	O3'-P	9.22	1.72	1.61
26	BB	1236	G	N3-C4	9.22	1.42	1.35
26	BB	1849	G	C2-N3	9.21	1.40	1.32
26	BB	2767	C	N1-C6	-9.21	1.31	1.37
1	AA	350	G	C8-N7	9.21	1.36	1.30
26	BB	2622	U	C2'-C1'	9.21	1.63	1.53
1	AA	1032	G	N9-C8	9.21	1.44	1.37
26	BB	1773	A	N3-C4	9.21	1.40	1.34
26	BB	2769	U	C4'-O4'	-9.21	1.33	1.45
1	AA	98	A	N3-C4	9.21	1.40	1.34
4	AD	36	A	C5'-C4'	9.20	1.62	1.51
26	BB	350	G	N1-C2	9.21	1.45	1.37
26	BB	892	A	P-O5'	9.20	1.69	1.59
26	BB	726	G	N9-C8	9.20	1.44	1.37
26	BB	2601	C	N1-C6	9.20	1.42	1.37
1	AA	906	A	C8-N7	-9.19	1.25	1.31
26	BB	974	G	C8-N7	-9.20	1.25	1.30
4	AD	5	G	N7-C5	9.19	1.44	1.39
26	BB	2706	A	N3-C4	9.19	1.40	1.34
1	AA	398	U	O3'-P	9.19	1.72	1.61
26	BB	456	C	O3'-P	9.19	1.72	1.61
1	AA	1	A	N9-C8	-9.18	1.30	1.37
1	AA	336	A	N3-C4	9.18	1.40	1.34
1	AA	1097	C	C4-C5	9.18	1.50	1.43
26	BB	929	U	C5-C6	9.18	1.42	1.34
1	AA	1234	C	C4'-O4'	-9.18	1.33	1.45
26	BB	1453	A	C5'-C4'	9.18	1.62	1.51
26	BB	1340	U	N1-C2	9.18	1.46	1.38
1	AA	388	G	N9-C4	9.18	1.45	1.38
26	BB	859	G	C5-C6	9.18	1.51	1.42
1	AA	1353	G	N1-C2	9.18	1.45	1.37
26	BB	2560	A	C6-N1	9.18	1.42	1.35
1	AA	1170	A	N1-C2	-9.17	1.26	1.34
26	BB	1145	C	C4-N4	-9.17	1.25	1.33
1	AA	107	G	P-O5'	9.17	1.69	1.59
1	AA	969	A	N3-C4	9.16	1.40	1.34
26	BB	2858	C	C2-O2	-9.16	1.16	1.24
1	AA	763	G	P-O5'	9.16	1.69	1.59
26	BB	2165	C	N1-C6	9.16	1.42	1.37
1	AA	384	G	N7-C5	9.16	1.44	1.39
26	BB	142	A	N7-C5	-9.16	1.33	1.39
26	BB	989	G	C2-N3	9.16	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	363	G	N7-C5	-9.15	1.33	1.39
26	BB	537	G	N7-C5	9.15	1.44	1.39
26	BB	1933	G	N3-C4	9.15	1.41	1.35
26	BB	2625	G	C6-N1	9.14	1.46	1.39
1	AA	69	G	O3'-P	9.14	1.72	1.61
1	AA	106	C	C5-C6	9.14	1.41	1.34
1	AA	768	A	P-O5'	9.14	1.68	1.59
26	BB	1286	A	P-O5'	9.14	1.68	1.59
1	AA	328	C	O3'-P	9.13	1.72	1.61
25	BA	67	G	O3'-P	9.13	1.72	1.61
26	BB	1181	U	N3-C4	9.13	1.46	1.38
1	AA	1291	U	N1-C2	9.13	1.46	1.38
26	BB	2438	U	N1-C2	9.13	1.46	1.38
1	AA	106	C	P-O5'	9.13	1.68	1.59
1	AA	742	G	C8-N7	-9.12	1.25	1.30
26	BB	2778	A	P-O5'	9.12	1.68	1.59
26	BB	2507	C	N3-C4	9.12	1.40	1.33
26	BB	2507	C	P-O5'	9.12	1.68	1.59
26	BB	2618	G	N7-C5	-9.12	1.33	1.39
25	BA	67	G	N9-C4	-9.12	1.30	1.38
26	BB	2186	G	C8-N7	9.12	1.36	1.30
26	BB	761	A	P-O5'	9.12	1.68	1.59
26	BB	1846	G	C2-N3	9.12	1.40	1.32
1	AA	418	C	N1-C6	9.11	1.42	1.37
26	BB	1335	C	N3-C4	9.11	1.40	1.33
26	BB	2119	A	C8-N7	-9.11	1.25	1.31
3	AC	41	A	N7-C5	9.11	1.44	1.39
1	AA	1074	G	N7-C5	9.11	1.44	1.39
26	BB	1180	U	C2-N3	9.11	1.44	1.37
26	BB	2753	A	N9-C4	9.10	1.43	1.37
1	AA	886	G	P-O5'	9.10	1.68	1.59
25	BA	90	C	P-O5'	9.10	1.68	1.59
26	BB	1446	C	C2-N3	9.10	1.43	1.35
1	AA	1417	G	N1-C2	9.10	1.45	1.37
1	AA	140	U	C2-N3	9.10	1.44	1.37
1	AA	919	A	N3-C4	9.10	1.40	1.34
1	AA	1136	C	P-O5'	-9.10	1.50	1.59
1	AA	239	U	C5'-C4'	9.09	1.62	1.51
1	AA	104	G	C4'-C3'	-9.09	1.43	1.53
1	AA	181	A	N3-C4	9.09	1.40	1.34
1	AA	539	A	P-O5'	9.09	1.68	1.59
1	AA	684	U	C4-C5	9.09	1.51	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	198	G	N9-C8	9.09	1.44	1.37
1	AA	326	G	P-O5'	9.09	1.68	1.59
1	AA	389	A	N9-C4	9.09	1.43	1.37
1	AA	1134	G	N7-C5	9.08	1.44	1.39
26	BB	94	A	C5'-C4'	9.08	1.62	1.51
1	AA	260	G	N3-C4	9.08	1.41	1.35
1	AA	770	C	N1-C6	9.08	1.42	1.37
26	BB	1896	G	P-O5'	9.08	1.68	1.59
26	BB	2640	G	C6-N1	9.08	1.46	1.39
26	BB	1067	A	C4'-O4'	-9.07	1.33	1.45
26	BB	1564	C	C2-N3	9.07	1.43	1.35
26	BB	1748	C	N3-C4	9.07	1.40	1.33
26	BB	2237	G	P-O5'	9.07	1.68	1.59
26	BB	681	G	C2'-C1'	-9.07	1.43	1.53
26	BB	1567	G	P-O5'	9.07	1.68	1.59
26	BB	201	C	C4-C5	9.06	1.50	1.43
25	BA	21	G	C5-C4	-9.06	1.32	1.38
26	BB	1459	G	N7-C5	9.05	1.44	1.39
1	AA	1289	A	N7-C5	-9.04	1.33	1.39
26	BB	2593	U	N1-C6	9.04	1.46	1.38
1	AA	32	A	N3-C4	9.04	1.40	1.34
1	AA	1458	G	N7-C5	9.04	1.44	1.39
26	BB	1703	G	N1-C2	9.03	1.45	1.37
1	AA	1273	C	C4-N4	9.03	1.42	1.33
26	BB	2830	C	N1-C6	9.03	1.42	1.37
1	AA	523	A	C6-N1	-9.03	1.29	1.35
26	BB	356	G	N7-C5	9.03	1.44	1.39
26	BB	2433	A	C4'-O4'	-9.03	1.33	1.45
1	AA	891	U	P-O5'	9.02	1.68	1.59
26	BB	1975	G	N7-C5	9.02	1.44	1.39
1	AA	1112	C	N1-C6	9.02	1.42	1.37
26	BB	798	G	N1-C2	9.02	1.45	1.37
26	BB	1558	C	P-O5'	9.02	1.68	1.59
26	BB	881	G	C6-N1	-9.01	1.33	1.39
26	BB	2051	A	P-O5'	9.01	1.68	1.59
1	AA	148	G	N3-C4	-9.01	1.29	1.35
1	AA	676	A	C8-N7	-9.01	1.25	1.31
1	AA	914	A	N9-C4	9.01	1.43	1.37
26	BB	871	U	O3'-P	9.01	1.72	1.61
26	BB	1445	G	C6-N1	9.01	1.45	1.39
1	AA	246	A	N9-C4	9.00	1.43	1.37
1	AA	894	G	N1-C2	9.00	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1202	U	P-O5'	9.00	1.68	1.59
1	AA	260	G	P-O5'	9.00	1.68	1.59
1	AA	669	G	C8-N7	9.00	1.36	1.30
26	BB	1259	G	C8-N7	-9.00	1.25	1.30
26	BB	2102	G	C2-N3	9.00	1.40	1.32
1	AA	500	G	N7-C5	9.00	1.44	1.39
6	AF	155	ARG	CZ-NH2	9.00	1.44	1.33
26	BB	2495	G	N7-C5	-9.00	1.33	1.39
26	BB	694	U	C2'-C1'	9.00	1.63	1.53
1	AA	461	A	N3-C4	8.99	1.40	1.34
1	AA	779	C	N3-C4	8.99	1.40	1.33
3	AC	16	A	C6-N1	8.99	1.41	1.35
26	BB	1741	C	C5'-C4'	8.99	1.62	1.51
1	AA	924	C	N1-C6	8.99	1.42	1.37
1	AA	214	C	N1-C6	8.99	1.42	1.37
26	BB	726	G	N7-C5	8.99	1.44	1.39
1	AA	710	G	C6-N1	8.98	1.45	1.39
1	AA	816	A	N7-C5	-8.98	1.33	1.39
26	BB	1222	U	C2-N3	8.98	1.44	1.37
26	BB	1847	A	N9-C4	8.98	1.43	1.37
26	BB	2117	A	C8-N7	-8.98	1.25	1.31
26	BB	2145	C	C4-C5	8.98	1.50	1.43
26	BB	2209	G	N3-C4	8.98	1.41	1.35
1	AA	952	U	C5'-C4'	8.97	1.62	1.51
1	AA	47	C	C2-O2	-8.97	1.16	1.24
1	AA	1272	G	N9-C4	8.97	1.45	1.38
26	BB	814	C	C4-C5	8.97	1.50	1.43
26	BB	2314	A	C2-N3	8.97	1.41	1.33
26	BB	1095	A	N3-C4	8.97	1.40	1.34
1	AA	1036	A	C6-N6	8.97	1.41	1.33
1	AA	1342	C	P-O5'	8.97	1.68	1.59
1	AA	1444	U	C4-C5	8.97	1.51	1.43
26	BB	2222	C	O3'-P	8.97	1.72	1.61
26	BB	602	A	N3-C4	8.96	1.40	1.34
26	BB	724	U	N1-C2	8.96	1.46	1.38
26	BB	1387	A	O3'-P	-8.96	1.50	1.61
26	BB	1867	G	C2-N3	8.96	1.40	1.32
1	AA	342	C	N1-C6	8.96	1.42	1.37
26	BB	409	G	C5'-C4'	8.95	1.62	1.51
26	BB	689	A	N3-C4	8.95	1.40	1.34
26	BB	2751	G	C6-N1	-8.95	1.33	1.39
1	AA	768	A	N3-C4	8.95	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2181	U	P-O5'	8.95	1.68	1.59
1	AA	1166	G	C2-N3	8.95	1.40	1.32
2	AB	40	C	C2'-C1'	8.95	1.63	1.53
26	BB	310	A	C5'-C4'	8.94	1.62	1.51
26	BB	2089	C	C4-N4	8.94	1.42	1.33
26	BB	912	C	N1-C6	8.94	1.42	1.37
26	BB	1165	A	C5-C4	-8.94	1.32	1.38
26	BB	1546	G	C5-C4	-8.94	1.32	1.38
26	BB	2773	C	C2-N3	8.94	1.43	1.35
52	B1	30	ARG	NE-CZ	8.94	1.44	1.33
1	AA	1225	A	N3-C4	8.94	1.40	1.34
26	BB	2545	G	C2-N3	8.94	1.39	1.32
26	BB	902	C	P-O5'	8.93	1.68	1.59
26	BB	363	G	N1-C2	8.93	1.44	1.37
26	BB	2388	A	N7-C5	8.93	1.44	1.39
26	BB	2377	A	N9-C4	8.93	1.43	1.37
1	AA	609	A	P-O5'	8.92	1.68	1.59
1	AA	1088	G	C2'-C1'	8.92	1.63	1.53
1	AA	1177	G	C2-N3	8.92	1.39	1.32
26	BB	327	G	P-O5'	8.92	1.68	1.59
26	BB	1059	G	N9-C8	-8.91	1.31	1.37
26	BB	1214	A	N9-C4	8.91	1.43	1.37
1	AA	553	A	C6-N6	-8.91	1.26	1.33
1	AA	303	A	N3-C4	8.91	1.40	1.34
26	BB	2888	C	P-O5'	8.91	1.68	1.59
4	AD	32	G	N3-C4	8.90	1.41	1.35
26	BB	873	C	N1-C6	8.90	1.42	1.37
26	BB	1504	A	P-O5'	8.90	1.68	1.59
1	AA	1103	C	C2-N3	8.90	1.42	1.35
26	BB	1861	G	P-O5'	8.90	1.68	1.59
26	BB	379	G	N3-C4	8.90	1.41	1.35
26	BB	2482	A	N7-C5	-8.90	1.33	1.39
26	BB	2138	G	N3-C4	8.90	1.41	1.35
26	BB	1535	A	C4'-O4'	-8.89	1.33	1.45
1	AA	179	A	N7-C5	8.89	1.44	1.39
26	BB	1093	G	C6-N1	8.89	1.45	1.39
26	BB	1535	A	N3-C4	8.89	1.40	1.34
26	BB	1231	U	C2-N3	8.89	1.44	1.37
26	BB	1297	C	N1-C6	8.89	1.42	1.37
26	BB	1408	G	N1-C2	8.89	1.44	1.37
26	BB	1912	A	N3-C4	8.89	1.40	1.34
1	AA	524	G	C2-N3	8.89	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1468	A	N3-C4	8.89	1.40	1.34
26	BB	129	C	C5'-C4'	8.89	1.62	1.51
26	BB	1565	C	N3-C4	8.89	1.40	1.33
2	AB	29	G	P-O5'	8.88	1.68	1.59
26	BB	472	A	C5-C4	-8.88	1.32	1.38
26	BB	2035	G	C4'-O4'	-8.88	1.34	1.45
26	BB	924	G	N3-C4	8.87	1.41	1.35
3	AC	49	U	C4'-C3'	8.87	1.62	1.53
25	BA	21	G	N9-C8	-8.87	1.31	1.37
1	AA	268	U	C2-N3	8.87	1.44	1.37
26	BB	1889	A	N3-C4	8.87	1.40	1.34
26	BB	287	G	C2-N3	8.87	1.39	1.32
26	BB	880	G	C4'-O4'	-8.87	1.34	1.45
26	BB	1556	C	O3'-P	8.87	1.71	1.61
1	AA	1538	C	N1-C6	-8.87	1.31	1.37
26	BB	667	U	N3-C4	8.87	1.46	1.38
26	BB	888	C	P-O5'	8.87	1.68	1.59
26	BB	2237	G	C8-N7	8.87	1.36	1.30
26	BB	1640	A	C5-C6	8.86	1.49	1.41
26	BB	1971	U	C2-N3	8.86	1.44	1.37
26	BB	2725	A	C5'-C4'	8.86	1.61	1.51
1	AA	1415	G	N1-C2	8.85	1.44	1.37
26	BB	2583	G	C5'-C4'	8.85	1.61	1.51
1	AA	139	A	N1-C2	-8.85	1.26	1.34
1	AA	231	U	C2-N3	8.85	1.44	1.37
1	AA	1354	U	N3-C4	8.85	1.46	1.38
26	BB	118	A	N7-C5	-8.85	1.33	1.39
1	AA	1234	C	N1-C6	-8.85	1.31	1.37
25	BA	50	A	N3-C4	8.85	1.40	1.34
26	BB	600	G	C4'-O4'	-8.85	1.34	1.45
1	AA	177	G	N9-C8	-8.84	1.31	1.37
1	AA	1118	U	P-O5'	8.84	1.68	1.59
26	BB	672	C	N1-C6	8.84	1.42	1.37
26	BB	49	A	C6-N1	8.84	1.41	1.35
26	BB	2328	A	N7-C5	-8.84	1.33	1.39
26	BB	1232	G	C8-N7	-8.83	1.25	1.30
1	AA	939	G	C2-N3	8.83	1.39	1.32
26	BB	27	G	C4'-C3'	8.83	1.62	1.53
26	BB	917	A	O4'-C1'	8.83	1.53	1.41
1	AA	463	U	N1-C2	8.82	1.46	1.38
26	BB	504	A	P-O5'	8.82	1.68	1.59
26	BB	1683	U	N1-C2	8.82	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2686	G	C5'-C4'	8.82	1.61	1.51
4	AD	60	A	N3-C4	8.82	1.40	1.34
26	BB	885	C	N3-C4	8.82	1.40	1.33
1	AA	1310	G	N7-C5	8.82	1.44	1.39
26	BB	332	A	C6-N6	8.82	1.41	1.33
26	BB	1626	A	N9-C8	8.81	1.44	1.37
1	AA	1349	A	N9-C4	8.81	1.43	1.37
26	BB	1749	A	N3-C4	8.81	1.40	1.34
1	AA	564	C	C5-C6	8.81	1.41	1.34
1	AA	1087	G	N3-C4	8.81	1.41	1.35
26	BB	128	C	N3-C4	8.81	1.40	1.33
26	BB	1100	C	N1-C6	8.81	1.42	1.37
26	BB	2119	A	N9-C4	-8.81	1.32	1.37
1	AA	662	U	O3'-P	8.81	1.71	1.61
26	BB	260	G	C8-N7	8.81	1.36	1.30
1	AA	1355	G	N9-C8	8.80	1.44	1.37
1	AA	1167	A	C4'-O4'	-8.80	1.34	1.45
26	BB	2157	G	N3-C4	8.80	1.41	1.35
26	BB	199	A	N7-C5	-8.80	1.33	1.39
1	AA	221	C	C2-N3	8.79	1.42	1.35
26	BB	458	G	N9-C8	-8.79	1.31	1.37
26	BB	1703	G	C4'-C3'	8.79	1.62	1.53
1	AA	600	A	N1-C2	8.78	1.42	1.34
26	BB	521	U	C5-C6	8.78	1.42	1.34
26	BB	749	A	C4'-O4'	-8.78	1.34	1.45
26	BB	1866	A	N3-C4	8.78	1.40	1.34
26	BB	2826	A	C4'-C3'	8.78	1.62	1.53
26	BB	1557	C	P-O5'	8.78	1.68	1.59
26	BB	2252	G	C2-N3	8.78	1.39	1.32
1	AA	1446	A	N7-C5	8.78	1.44	1.39
26	BB	1004	U	C4-C5	8.78	1.51	1.43
26	BB	1730	C	C2'-C1'	8.78	1.63	1.53
1	AA	407	U	C2-N3	8.78	1.43	1.37
26	BB	1465	G	N1-C2	8.77	1.44	1.37
1	AA	1444	U	C3'-C2'	8.76	1.62	1.52
1	AA	546	A	N3-C4	8.76	1.40	1.34
26	BB	423	A	N9-C8	-8.76	1.30	1.37
26	BB	486	C	N1-C6	8.76	1.42	1.37
26	BB	2664	G	C3'-C2'	8.76	1.62	1.52
4	AD	71	G	C8-N7	8.76	1.36	1.30
1	AA	162	A	C5'-C4'	8.76	1.61	1.51
1	AA	1330	U	C2-N3	8.76	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	505	G	C5-C6	8.75	1.51	1.42
1	AA	949	A	C5-C6	8.75	1.49	1.41
1	AA	953	G	N1-C2	8.75	1.44	1.37
26	BB	563	A	C6-N1	8.75	1.41	1.35
1	AA	1252	A	N3-C4	8.75	1.40	1.34
26	BB	518	G	O3'-P	8.75	1.71	1.61
1	AA	738	C	C5'-C4'	8.75	1.61	1.51
1	AA	618	C	C4-C5	8.75	1.50	1.43
26	BB	1540	G	C8-N7	-8.74	1.25	1.30
1	AA	1024	G	O3'-P	8.74	1.71	1.61
1	AA	1484	C	C4'-C3'	-8.74	1.43	1.53
26	BB	1384	A	N7-C5	8.74	1.44	1.39
3	AC	44	U	N1-C2	8.73	1.46	1.38
1	AA	796	C	N1-C6	8.73	1.42	1.37
2	AB	24	G	C2-N3	8.73	1.39	1.32
26	BB	2830	C	C5'-C4'	8.73	1.61	1.51
26	BB	2136	G	C2'-C1'	-8.72	1.43	1.53
1	AA	724	G	P-O5'	8.72	1.68	1.59
26	BB	1115	G	N9-C4	8.72	1.45	1.38
26	BB	1456	G	C6-N1	8.72	1.45	1.39
1	AA	635	A	N9-C4	8.72	1.43	1.37
1	AA	1035	A	P-O5'	8.71	1.68	1.59
26	BB	385	C	C2-N3	8.71	1.42	1.35
1	AA	555	U	C2-N3	8.71	1.43	1.37
1	AA	1060	U	C5-C6	8.71	1.42	1.34
1	AA	1209	C	P-O5'	-8.71	1.51	1.59
26	BB	1604	C	N1-C6	-8.71	1.31	1.37
1	AA	107	G	N3-C4	8.71	1.41	1.35
1	AA	1309	G	N7-C5	8.71	1.44	1.39
26	BB	1650	A	P-O5'	8.71	1.68	1.59
26	BB	2155	U	P-O5'	-8.71	1.51	1.59
1	AA	1008	U	N1-C2	8.71	1.46	1.38
26	BB	975	A	N7-C5	-8.71	1.34	1.39
1	AA	346	G	N3-C4	8.70	1.41	1.35
1	AA	676	A	C6-N6	-8.70	1.26	1.33
26	BB	2901	C	P-O5'	8.70	1.68	1.59
26	BB	575	A	N9-C4	-8.70	1.32	1.37
26	BB	2616	C	C5-C6	8.70	1.41	1.34
26	BB	471	A	O3'-P	8.70	1.71	1.61
26	BB	1934	C	C2-N3	8.70	1.42	1.35
26	BB	1405	U	P-O5'	8.70	1.68	1.59
1	AA	1408	A	N3-C4	8.70	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	9	A	N9-C4	-8.70	1.32	1.37
26	BB	1305	C	P-O5'	-8.70	1.51	1.59
1	AA	970	C	N1-C6	8.69	1.42	1.37
26	BB	1959	G	P-O5'	8.69	1.68	1.59
26	BB	1363	C	C2-N3	8.69	1.42	1.35
26	BB	2063	C	P-O5'	8.69	1.68	1.59
1	AA	558	G	N1-C2	8.69	1.44	1.37
26	BB	446	G	C5'-C4'	8.69	1.61	1.51
26	BB	916	G	C2-N3	8.69	1.39	1.32
26	BB	1225	G	C2-N3	8.69	1.39	1.32
26	BB	2324	U	C2-O2	8.69	1.30	1.22
1	AA	1466	C	P-O5'	8.68	1.68	1.59
26	BB	1343	G	N3-C4	8.68	1.41	1.35
26	BB	2731	G	C4'-O4'	-8.68	1.34	1.45
26	BB	476	G	N3-C4	8.68	1.41	1.35
26	BB	1463	C	P-O5'	8.68	1.68	1.59
26	BB	2561	U	C4-C5	8.68	1.51	1.43
1	AA	1122	U	N3-C4	8.68	1.46	1.38
26	BB	1894	C	C5'-C4'	8.68	1.61	1.51
26	BB	457	A	N7-C5	8.67	1.44	1.39
26	BB	578	G	N1-C2	8.67	1.44	1.37
26	BB	1524	G	N3-C4	8.67	1.41	1.35
26	BB	2065	C	C2-N3	8.67	1.42	1.35
1	AA	109	A	N3-C4	8.67	1.40	1.34
1	AA	78	A	N9-C4	8.67	1.43	1.37
1	AA	256	U	C4-C5	8.67	1.51	1.43
26	BB	1561	C	C2-N3	8.66	1.42	1.35
26	BB	1921	G	N1-C2	8.66	1.44	1.37
1	AA	335	C	N3-C4	8.66	1.40	1.33
26	BB	740	C	C4-N4	-8.66	1.26	1.33
26	BB	1012	U	C4-C5	8.66	1.51	1.43
26	BB	2689	U	C2-N3	8.66	1.43	1.37
1	AA	294	U	N1-C2	8.66	1.46	1.38
2	AB	23	A	P-O5'	8.66	1.68	1.59
1	AA	1023	U	P-O5'	8.65	1.68	1.59
26	BB	2059	A	C8-N7	-8.65	1.25	1.31
26	BB	2406	A	N3-C4	8.65	1.40	1.34
26	BB	254	G	C5-C6	8.65	1.51	1.42
26	BB	360	U	P-O5'	8.65	1.68	1.59
26	BB	592	A	N7-C5	-8.65	1.34	1.39
26	BB	2762	C	C5-C6	8.65	1.41	1.34
3	AC	33	A	C3'-C2'	8.65	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2694	G	N3-C4	8.65	1.41	1.35
26	BB	2741	A	N3-C4	8.65	1.40	1.34
26	BB	24	G	O3'-P	8.64	1.71	1.61
1	AA	377	G	C5-C4	-8.64	1.32	1.38
4	AD	30	G	C8-N7	-8.64	1.25	1.30
1	AA	932	C	N1-C6	8.64	1.42	1.37
26	BB	742	A	N9-C4	8.64	1.43	1.37
26	BB	2711	A	N9-C4	-8.64	1.32	1.37
25	BA	117	G	P-O5'	8.63	1.68	1.59
26	BB	407	G	O3'-P	8.63	1.71	1.61
26	BB	51	G	C2-N3	8.63	1.39	1.32
1	AA	786	G	C8-N7	8.63	1.36	1.30
26	BB	2557	G	P-O5'	8.63	1.68	1.59
26	BB	248	G	C6-N1	8.63	1.45	1.39
26	BB	2058	A	C5'-C4'	8.63	1.61	1.51
26	BB	161	A	C5-C4	-8.62	1.32	1.38
1	AA	1419	G	N9-C4	-8.62	1.31	1.38
1	AA	712	A	N7-C5	-8.62	1.34	1.39
26	BB	2810	A	C5-C4	-8.62	1.32	1.38
1	AA	1432	G	C8-N7	-8.62	1.25	1.30
26	BB	2523	G	C2-N3	8.62	1.39	1.32
1	AA	317	U	C4'-O4'	-8.62	1.34	1.45
1	AA	364	A	N3-C4	8.62	1.40	1.34
2	AB	19	G	C2-N3	8.61	1.39	1.32
26	BB	40	U	P-O5'	8.62	1.68	1.59
26	BB	800	A	N3-C4	8.61	1.40	1.34
26	BB	1644	C	N1-C6	-8.61	1.31	1.37
1	AA	253	A	N9-C4	8.61	1.43	1.37
26	BB	2167	U	C2-O2	-8.61	1.14	1.22
1	AA	180	U	C4-C5	8.61	1.51	1.43
26	BB	1912	A	C5-C4	-8.61	1.32	1.38
26	BB	2523	G	C8-N7	-8.61	1.25	1.30
1	AA	902	G	N7-C5	-8.61	1.34	1.39
1	AA	991	U	P-O5'	8.61	1.68	1.59
1	AA	1465	A	C6-N6	8.61	1.40	1.33
26	BB	1989	G	O3'-P	8.61	1.71	1.61
26	BB	2664	G	N9-C8	-8.61	1.31	1.37
26	BB	1406	U	N1-C6	8.61	1.45	1.38
26	BB	2429	G	N7-C5	8.61	1.44	1.39
26	BB	2524	G	N9-C8	-8.61	1.31	1.37
1	AA	928	G	N7-C5	8.60	1.44	1.39
26	BB	276	U	C2-N3	8.60	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1791	A	N9-C4	8.60	1.43	1.37
2	AB	12	U	C4-C5	8.60	1.51	1.43
26	BB	130	C	N1-C6	8.60	1.42	1.37
26	BB	2010	G	N3-C4	8.60	1.41	1.35
26	BB	35	G	N1-C2	8.60	1.44	1.37
26	BB	1147	A	C5-C6	8.60	1.48	1.41
26	BB	2166	U	O3'-P	8.60	1.71	1.61
26	BB	2811	G	N7-C5	8.60	1.44	1.39
26	BB	616	A	C8-N7	-8.60	1.25	1.31
26	BB	1102	C	C4-N4	8.60	1.41	1.33
1	AA	721	G	C2-N3	8.59	1.39	1.32
2	AB	9	A	N3-C4	8.59	1.40	1.34
25	BA	101	A	N9-C4	8.59	1.43	1.37
26	BB	2859	G	C6-O6	-8.59	1.16	1.24
1	AA	296	U	C5-C6	8.59	1.41	1.34
1	AA	493	A	N3-C4	8.59	1.40	1.34
2	AB	39	A	P-O5'	8.59	1.68	1.59
26	BB	864	G	N7-C5	8.59	1.44	1.39
26	BB	1131	G	P-O5'	8.59	1.68	1.59
26	BB	1652	A	C2'-C1'	-8.59	1.44	1.53
26	BB	1333	G	N3-C4	8.58	1.41	1.35
26	BB	209	C	P-O5'	8.58	1.68	1.59
26	BB	1592	C	P-O5'	8.58	1.68	1.59
26	BB	1891	G	P-O5'	8.58	1.68	1.59
26	BB	2494	G	C5'-C4'	8.58	1.61	1.51
26	BB	559	G	P-O5'	8.58	1.68	1.59
1	AA	987	G	C2'-C1'	8.58	1.62	1.53
1	AA	245	U	O4'-C1'	8.58	1.52	1.41
26	BB	1008	A	N9-C4	8.58	1.43	1.37
26	BB	1030	C	N1-C6	8.58	1.42	1.37
26	BB	1235	G	N7-C5	8.58	1.44	1.39
26	BB	1259	G	C5'-C4'	8.58	1.61	1.51
26	BB	1937	A	C5'-C4'	8.58	1.61	1.51
26	BB	1233	C	C4'-O4'	-8.57	1.34	1.45
26	BB	1756	G	P-O5'	8.57	1.68	1.59
26	BB	2727	A	P-O5'	8.57	1.68	1.59
26	BB	2791	G	N9-C8	-8.57	1.31	1.37
1	AA	520	A	N7-C5	-8.57	1.34	1.39
26	BB	1430	G	N3-C4	8.57	1.41	1.35
2	AB	19	G	P-O5'	8.57	1.68	1.59
26	BB	1243	C	N3-C4	8.57	1.40	1.33
26	BB	1713	A	P-O5'	8.57	1.68	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1802	A	N3-C4	8.57	1.40	1.34
1	AA	615	G	N7-C5	-8.57	1.34	1.39
26	BB	2091	C	O3'-P	8.57	1.71	1.61
26	BB	2803	G	O3'-P	-8.57	1.50	1.61
26	BB	580	U	N3-C4	8.56	1.46	1.38
26	BB	2751	G	N9-C8	-8.56	1.31	1.37
1	AA	504	C	C5-C6	8.56	1.41	1.34
1	AA	839	C	C5'-C4'	8.56	1.61	1.51
1	AA	1102	A	C8-N7	-8.56	1.25	1.31
26	BB	1172	C	N1-C6	8.56	1.42	1.37
1	AA	836	G	P-O5'	8.55	1.68	1.59
4	AD	70	C	P-O5'	8.55	1.68	1.59
26	BB	637	A	N3-C4	8.56	1.40	1.34
1	AA	565	U	C5'-C4'	8.55	1.61	1.51
1	AA	1480	A	N7-C5	-8.55	1.34	1.39
26	BB	1383	A	P-O5'	8.55	1.68	1.59
26	BB	1874	C	N1-C6	-8.55	1.32	1.37
4	AD	23	G	C5-C6	8.55	1.50	1.42
26	BB	780	G	C4'-C3'	8.55	1.62	1.53
26	BB	2607	G	C5-C4	8.55	1.44	1.38
1	AA	144	G	C5-C6	8.54	1.50	1.42
1	AA	1150	A	P-O5'	-8.54	1.51	1.59
26	BB	829	A	N9-C4	8.54	1.43	1.37
26	BB	2439	A	P-O5'	8.54	1.68	1.59
26	BB	762	U	C5'-C4'	8.54	1.61	1.51
26	BB	2471	A	N3-C4	8.54	1.40	1.34
2	AB	4	G	C2-N3	8.54	1.39	1.32
26	BB	1679	A	N1-C2	-8.54	1.26	1.34
26	BB	2286	G	N1-C2	8.54	1.44	1.37
1	AA	290	C	C2-N3	8.53	1.42	1.35
25	BA	116	G	N7-C5	-8.53	1.34	1.39
26	BB	2567	G	C5'-C4'	8.53	1.61	1.51
26	BB	2759	G	N1-C2	8.53	1.44	1.37
1	AA	1392	G	C2-N3	8.53	1.39	1.32
26	BB	602	A	N7-C5	-8.53	1.34	1.39
26	BB	2326	C	N1-C6	8.53	1.42	1.37
26	BB	2328	A	N9-C4	-8.53	1.32	1.37
1	AA	311	C	C2-N3	8.53	1.42	1.35
26	BB	2728	U	P-O5'	8.53	1.68	1.59
26	BB	685	A	N7-C5	-8.53	1.34	1.39
1	AA	161	A	P-O5'	8.52	1.68	1.59
26	BB	1099	G	C5'-C4'	8.52	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1830	C	C4'-O4'	-8.52	1.34	1.45
26	BB	2469	A	N3-C4	8.52	1.40	1.34
1	AA	872	A	N9-C4	8.52	1.43	1.37
26	BB	1645	G	C8-N7	8.52	1.36	1.30
1	AA	122	G	N7-C5	-8.52	1.34	1.39
1	AA	778	G	C6-N1	8.52	1.45	1.39
26	BB	949	G	N1-C2	8.52	1.44	1.37
1	AA	77	A	P-O5'	8.52	1.68	1.59
2	AB	15	A	N7-C5	-8.51	1.34	1.39
26	BB	423	A	N3-C4	8.51	1.40	1.34
26	BB	1139	G	N1-C2	8.51	1.44	1.37
1	AA	1261	A	O3'-P	-8.51	1.50	1.61
2	AB	74	C	C5-C6	8.51	1.41	1.34
26	BB	1307	A	C2-N3	8.51	1.41	1.33
1	AA	157	U	C2-N3	8.51	1.43	1.37
26	BB	1352	U	C5'-C4'	8.51	1.61	1.51
1	AA	568	G	C6-O6	-8.50	1.16	1.24
1	AA	1077	G	N7-C5	8.50	1.44	1.39
26	BB	152	A	N7-C5	8.50	1.44	1.39
26	BB	326	G	O3'-P	8.50	1.71	1.61
26	BB	805	G	C2-N3	8.50	1.39	1.32
25	BA	23	G	P-O5'	8.49	1.68	1.59
26	BB	1512	C	P-O5'	8.49	1.68	1.59
26	BB	2297	A	N7-C5	-8.49	1.34	1.39
26	BB	1552	A	C4'-O4'	-8.49	1.34	1.45
26	BB	2843	G	N9-C8	-8.49	1.31	1.37
26	BB	2725	A	N3-C4	8.49	1.40	1.34
1	AA	1338	G	N3-C4	8.49	1.41	1.35
26	BB	309	A	N3-C4	8.49	1.40	1.34
26	BB	781	A	N9-C4	8.49	1.43	1.37
26	BB	2682	A	C4'-O4'	-8.49	1.34	1.45
26	BB	2412	A	N9-C4	8.49	1.43	1.37
26	BB	15	G	P-O5'	8.48	1.68	1.59
26	BB	2165	C	P-O5'	8.48	1.68	1.59
26	BB	2518	A	O3'-P	-8.48	1.50	1.61
1	AA	103	U	C2-N3	8.48	1.43	1.37
26	BB	2072	C	P-O5'	8.48	1.68	1.59
1	AA	609	A	N9-C8	8.48	1.44	1.37
2	AB	62	U	C2-N3	8.48	1.43	1.37
26	BB	131	A	N3-C4	8.48	1.40	1.34
1	AA	1445	U	N1-C6	8.47	1.45	1.38
1	AA	1496	C	C2-N3	8.47	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1329	A	P-O5'	8.47	1.68	1.59
25	BA	61	G	C6-N1	8.47	1.45	1.39
1	AA	826	C	C4-C5	8.47	1.49	1.43
26	BB	1499	C	N3-C4	8.47	1.39	1.33
1	AA	1312	G	P-O5'	8.46	1.68	1.59
1	AA	211	G	N1-C2	8.46	1.44	1.37
26	BB	2557	G	N9-C8	8.46	1.43	1.37
1	AA	320	A	N7-C5	8.46	1.44	1.39
1	AA	870	U	N1-C2	8.46	1.46	1.38
1	AA	1332	A	N9-C4	8.46	1.43	1.37
26	BB	362	A	N3-C4	8.46	1.40	1.34
26	BB	985	C	C3'-C2'	8.46	1.62	1.52
26	BB	1086	A	P-O5'	8.46	1.68	1.59
26	BB	2237	G	N7-C5	8.46	1.44	1.39
1	AA	1389	C	N3-C4	8.46	1.39	1.33
26	BB	849	A	N7-C5	-8.46	1.34	1.39
40	BP	14	SER	CB-OG	-8.46	1.31	1.42
1	AA	251	G	P-O5'	8.45	1.68	1.59
1	AA	634	C	N1-C6	8.46	1.42	1.37
1	AA	86	G	C8-N7	-8.45	1.25	1.30
26	BB	2335	A	C2-N3	8.45	1.41	1.33
26	BB	14	A	P-O5'	8.45	1.68	1.59
26	BB	261	G	C8-N7	-8.45	1.25	1.30
26	BB	1839	G	P-O5'	8.45	1.68	1.59
1	AA	84	U	P-O5'	8.45	1.68	1.59
1	AA	609	A	N3-C4	8.45	1.40	1.34
26	BB	2139	U	O3'-P	8.45	1.71	1.61
1	AA	226	G	C8-N7	8.45	1.36	1.30
26	BB	1459	G	N3-C4	8.44	1.41	1.35
4	AD	9	G	N9-C8	-8.44	1.31	1.37
26	BB	2304	G	N7-C5	-8.44	1.34	1.39
26	BB	330	A	N9-C4	8.44	1.43	1.37
1	AA	304	U	C2-N3	8.44	1.43	1.37
1	AA	962	C	P-O5'	8.44	1.68	1.59
26	BB	1386	C	O3'-P	8.44	1.71	1.61
26	BB	1800	C	N1-C6	8.44	1.42	1.37
26	BB	2476	A	N7-C5	8.44	1.44	1.39
53	B2	63	ARG	CZ-NH1	8.44	1.44	1.33
26	BB	2370	G	O3'-P	8.44	1.71	1.61
1	AA	430	A	P-O5'	8.43	1.68	1.59
1	AA	1394	A	N9-C4	8.43	1.43	1.37
26	BB	765	C	C2-N3	8.43	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1873	G	N3-C4	8.43	1.41	1.35
26	BB	2149	U	N1-C2	8.43	1.46	1.38
26	BB	2333	A	C2'-C1'	-8.43	1.44	1.53
1	AA	270	A	N3-C4	8.43	1.40	1.34
1	AA	1441	A	P-O5'	8.43	1.68	1.59
26	BB	95	A	O3'-P	8.43	1.71	1.61
26	BB	886	A	C6-N6	8.43	1.40	1.33
26	BB	928	A	N9-C8	-8.43	1.31	1.37
26	BB	1732	C	C4-C5	8.43	1.49	1.43
1	AA	677	U	C2-O2	-8.42	1.14	1.22
26	BB	877	A	N3-C4	8.42	1.40	1.34
26	BB	1753	G	N3-C4	8.42	1.41	1.35
26	BB	2137	U	C4-C5	8.42	1.51	1.43
1	AA	293	G	C2-N3	8.42	1.39	1.32
1	AA	364	A	N7-C5	8.42	1.44	1.39
1	AA	754	C	C2-N3	8.42	1.42	1.35
26	BB	102	U	P-O5'	8.42	1.68	1.59
26	BB	2193	G	C8-N7	-8.42	1.25	1.30
1	AA	1146	A	N3-C4	8.41	1.39	1.34
1	AA	1305	G	P-O5'	8.41	1.68	1.59
26	BB	377	G	N9-C8	-8.41	1.31	1.37
26	BB	1078	U	C4-O4	-8.41	1.17	1.23
26	BB	1663	G	N3-C4	8.41	1.41	1.35
26	BB	1020	A	P-O5'	8.41	1.68	1.59
1	AA	616	G	N7-C5	8.41	1.44	1.39
1	AA	1227	A	P-O5'	8.40	1.68	1.59
2	AB	23	A	N3-C4	8.40	1.39	1.34
25	BA	10	G	C3'-C2'	-8.40	1.43	1.52
26	BB	240	C	C4-C5	8.40	1.49	1.43
26	BB	2423	U	C5'-C4'	8.40	1.61	1.51
26	BB	2481	G	P-O5'	8.40	1.68	1.59
26	BB	2761	A	N3-C4	8.40	1.39	1.34
25	BA	13	G	C8-N7	-8.40	1.25	1.30
1	AA	812	G	N7-C5	-8.40	1.34	1.39
1	AA	709	U	C2-N3	8.40	1.43	1.37
1	AA	785	G	N3-C4	-8.40	1.29	1.35
1	AA	1281	C	C3'-C2'	8.40	1.62	1.52
26	BB	1275	A	N7-C5	8.40	1.44	1.39
1	AA	772	U	C4'-O4'	-8.39	1.34	1.45
26	BB	386	G	N3-C4	8.39	1.41	1.35
26	BB	2386	A	C3'-C2'	-8.39	1.43	1.52
26	BB	105	C	C2-N3	8.39	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	783	A	N9-C4	8.39	1.42	1.37
26	BB	1836	C	P-O5'	8.39	1.68	1.59
26	BB	2618	G	C5'-C4'	8.39	1.61	1.51
1	AA	434	U	P-O5'	8.39	1.68	1.59
26	BB	317	G	C6-N1	8.39	1.45	1.39
26	BB	436	C	C2-N3	8.39	1.42	1.35
39	BO	75	GLU	CD-OE2	8.39	1.34	1.25
26	BB	213	A	N3-C4	8.39	1.39	1.34
26	BB	1166	G	C8-N7	-8.39	1.25	1.30
1	AA	1378	C	N3-C4	-8.38	1.28	1.33
26	BB	1510	G	N9-C4	-8.38	1.31	1.38
1	AA	237	G	N1-C2	8.38	1.44	1.37
1	AA	335	C	P-O5'	8.38	1.68	1.59
26	BB	189	G	C6-N1	8.38	1.45	1.39
26	BB	1086	A	C5'-C4'	8.38	1.61	1.51
26	BB	271	G	N1-C2	8.38	1.44	1.37
26	BB	573	U	C2-N3	8.38	1.43	1.37
26	BB	1725	U	C2-N3	8.38	1.43	1.37
1	AA	963	G	N3-C4	8.38	1.41	1.35
1	AA	1524	C	N3-C4	-8.38	1.28	1.33
1	AA	1541	U	P-O5'	8.38	1.68	1.59
26	BB	1423	G	P-O5'	8.37	1.68	1.59
25	BA	62	C	N1-C6	8.37	1.42	1.37
25	BA	112	G	P-O5'	8.37	1.68	1.59
26	BB	111	A	N3-C4	8.37	1.39	1.34
26	BB	507	A	C6-N1	-8.37	1.29	1.35
26	BB	2841	C	N1-C6	-8.37	1.32	1.37
1	AA	690	G	C6-N1	8.37	1.45	1.39
26	BB	718	A	C4'-O4'	-8.37	1.34	1.45
1	AA	445	G	N3-C4	8.36	1.41	1.35
26	BB	1278	C	N1-C6	8.36	1.42	1.37
26	BB	499	U	P-O5'	8.36	1.68	1.59
26	BB	2832	U	C4'-O4'	-8.36	1.34	1.45
1	AA	429	U	C4'-C3'	8.35	1.62	1.53
1	AA	1336	C	C4-N4	8.35	1.41	1.33
26	BB	2368	C	N1-C6	8.35	1.42	1.37
1	AA	890	G	C4'-C3'	8.35	1.62	1.53
26	BB	956	G	C5-C6	8.35	1.50	1.42
26	BB	1661	G	N7-C5	-8.35	1.34	1.39
26	BB	1815	A	N9-C8	-8.35	1.31	1.37
26	BB	1564	C	C5-C6	8.35	1.41	1.34
4	AD	60	A	N9-C4	-8.34	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	454	A	N3-C4	8.34	1.39	1.34
1	AA	213	G	P-O5'	8.34	1.68	1.59
4	AD	24	C	P-O5'	8.34	1.68	1.59
1	AA	18	C	N1-C6	8.34	1.42	1.37
26	BB	1806	C	C4-C5	8.34	1.49	1.43
1	AA	554	A	C2-N3	8.34	1.41	1.33
1	AA	427	U	N1-C2	8.33	1.46	1.38
25	BA	5	U	C4-C5	8.33	1.51	1.43
26	BB	307	G	C2-N3	8.33	1.39	1.32
26	BB	538	A	N3-C4	8.33	1.39	1.34
26	BB	1612	C	N1-C6	8.33	1.42	1.37
26	BB	2104	C	N3-C4	8.33	1.39	1.33
1	AA	547	A	N3-C4	8.33	1.39	1.34
26	BB	2101	A	C3'-C2'	8.33	1.62	1.52
26	BB	2363	G	N3-C4	8.33	1.41	1.35
1	AA	536	C	C2'-C1'	8.33	1.62	1.53
26	BB	1549	A	N7-C5	8.33	1.44	1.39
26	BB	1981	A	C6-N6	8.33	1.40	1.33
1	AA	886	G	C5-C4	8.32	1.44	1.38
26	BB	453	A	P-O5'	8.32	1.68	1.59
26	BB	570	G	C5'-C4'	8.32	1.61	1.51
26	BB	1785	A	N3-C4	8.32	1.39	1.34
2	AB	27	C	P-O5'	8.32	1.68	1.59
26	BB	632	A	N7-C5	-8.32	1.34	1.39
26	BB	2404	U	N1-C2	8.32	1.46	1.38
26	BB	1124	G	C3'-C2'	8.32	1.62	1.52
1	AA	74	A	C5-C4	-8.32	1.32	1.38
1	AA	688	G	N3-C4	8.32	1.41	1.35
26	BB	591	U	C5-C6	8.32	1.41	1.34
26	BB	1603	A	C5-C4	-8.32	1.32	1.38
26	BB	1325	U	N1-C2	8.31	1.46	1.38
1	AA	544	G	O3'-P	8.31	1.71	1.61
26	BB	381	G	C5'-C4'	8.31	1.61	1.51
26	BB	23	G	N3-C4	-8.31	1.29	1.35
26	BB	769	U	C2'-C1'	8.31	1.62	1.53
26	BB	2004	G	C4'-C3'	-8.31	1.44	1.53
26	BB	2186	G	P-O5'	8.31	1.68	1.59
1	AA	1369	C	P-O5'	8.31	1.68	1.59
26	BB	510	C	C5'-C4'	8.31	1.61	1.51
26	BB	1717	A	N9-C4	-8.30	1.32	1.37
26	BB	2086	U	C2-N3	8.30	1.43	1.37
26	BB	2548	U	C5-C6	8.30	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	73	A	N9-C8	8.30	1.44	1.37
26	BB	175	G	P-O5'	8.30	1.68	1.59
26	BB	556	A	N3-C4	8.30	1.39	1.34
26	BB	836	G	N7-C5	8.30	1.44	1.39
26	BB	921	C	N1-C6	8.30	1.42	1.37
26	BB	2102	G	P-O5'	8.29	1.68	1.59
1	AA	420	U	C2-N3	8.29	1.43	1.37
1	AA	639	G	C4'-C3'	-8.29	1.44	1.53
1	AA	1246	A	N7-C5	8.29	1.44	1.39
26	BB	360	U	N1-C2	8.29	1.46	1.38
26	BB	752	A	O3'-P	8.29	1.71	1.61
26	BB	634	C	N1-C6	8.29	1.42	1.37
26	BB	2257	U	C2-N3	8.29	1.43	1.37
26	BB	2461	A	N1-C2	-8.29	1.26	1.34
1	AA	628	G	O3'-P	8.29	1.71	1.61
26	BB	659	G	C4'-O4'	-8.29	1.34	1.45
1	AA	573	A	O3'-P	8.28	1.71	1.61
26	BB	1423	G	N7-C5	8.29	1.44	1.39
1	AA	628	G	N1-C2	8.28	1.44	1.37
26	BB	967	U	P-O5'	8.28	1.68	1.59
1	AA	73	C	N1-C6	8.28	1.42	1.37
25	BA	15	A	P-O5'	8.28	1.68	1.59
26	BB	2302	U	O3'-P	8.28	1.71	1.61
26	BB	664	G	C6-N1	8.28	1.45	1.39
26	BB	2055	C	C5-C6	8.28	1.41	1.34
1	AA	922	G	N7-C5	8.27	1.44	1.39
26	BB	2755	C	N3-C4	8.27	1.39	1.33
1	AA	697	U	C2-N3	8.27	1.43	1.37
1	AA	1459	G	O3'-P	8.27	1.71	1.61
26	BB	871	U	C4-C5	8.27	1.50	1.43
26	BB	2250	G	C5'-C4'	8.27	1.61	1.51
1	AA	427	U	P-O5'	8.27	1.68	1.59
26	BB	2765	A	C4'-O4'	-8.27	1.34	1.45
26	BB	1490	A	P-O5'	8.27	1.68	1.59
26	BB	1566	A	N3-C4	8.27	1.39	1.34
26	BB	1817	G	C6-N1	8.27	1.45	1.39
26	BB	2206	C	C4'-C3'	8.27	1.62	1.53
26	BB	684	G	N9-C8	-8.26	1.32	1.37
26	BB	2038	G	C2-N3	8.26	1.39	1.32
1	AA	1308	U	C2-N3	8.26	1.43	1.37
1	AA	1072	G	C2-N3	8.26	1.39	1.32
1	AA	522	C	C5'-C4'	8.26	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	899	A	C6-N6	-8.26	1.27	1.33
26	BB	2238	G	N7-C5	-8.26	1.34	1.39
26	BB	101	A	C6-N1	8.26	1.41	1.35
26	BB	1961	C	C2-N3	8.26	1.42	1.35
1	AA	486	U	P-O5'	8.25	1.68	1.59
26	BB	709	U	N1-C2	8.25	1.46	1.38
26	BB	2272	U	N1-C6	-8.25	1.30	1.38
3	AC	48	C	C2-N3	8.25	1.42	1.35
26	BB	1441	G	N3-C4	8.25	1.41	1.35
1	AA	534	U	C2-N3	8.25	1.43	1.37
1	AA	702	A	C4'-O4'	-8.25	1.34	1.45
1	AA	808	C	C2-N3	8.25	1.42	1.35
26	BB	2145	C	C4'-O4'	-8.25	1.34	1.45
25	BA	18	G	C8-N7	8.24	1.35	1.30
26	BB	38	A	N3-C4	8.24	1.39	1.34
26	BB	2694	G	C2-N3	8.24	1.39	1.32
26	BB	2098	U	C5'-C4'	8.24	1.61	1.51
1	AA	742	G	P-O5'	8.24	1.68	1.59
26	BB	1919	A	N9-C4	-8.24	1.32	1.37
26	BB	2864	G	C2-N3	8.24	1.39	1.32
1	AA	882	C	C5-C6	8.24	1.41	1.34
26	BB	2037	A	C4'-O4'	-8.24	1.34	1.45
1	AA	1515	G	C4'-O4'	-8.23	1.34	1.45
26	BB	188	G	C5-C4	-8.23	1.32	1.38
26	BB	2203	U	N1-C2	8.23	1.46	1.38
26	BB	1722	A	C8-N7	-8.23	1.25	1.31
1	AA	880	C	N3-C4	8.23	1.39	1.33
26	BB	521	U	C2-O2	8.23	1.29	1.22
26	BB	1165	A	C6-N6	8.23	1.40	1.33
1	AA	435	A	P-O5'	8.23	1.68	1.59
1	AA	798	U	C2-N3	8.23	1.43	1.37
26	BB	2119	A	N7-C5	-8.23	1.34	1.39
1	AA	518	C	C4-C5	8.22	1.49	1.43
1	AA	1237	C	C5'-C4'	8.22	1.61	1.51
1	AA	1265	C	N3-C4	8.22	1.39	1.33
26	BB	1062	G	N1-C2	8.22	1.44	1.37
1	AA	389	A	N3-C4	8.22	1.39	1.34
25	BA	46	A	N3-C4	8.22	1.39	1.34
1	AA	24	U	C4-C5	8.22	1.50	1.43
1	AA	1298	U	C2-N3	-8.22	1.31	1.37
26	BB	378	C	P-O5'	8.22	1.68	1.59
1	AA	232	G	C8-N7	8.22	1.35	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1465	G	N7-C5	8.21	1.44	1.39
26	BB	1968	G	C5-C4	-8.21	1.32	1.38
26	BB	2680	U	P-O5'	-8.21	1.51	1.59
1	AA	196	A	P-O5'	8.21	1.68	1.59
1	AA	680	C	N1-C6	8.21	1.42	1.37
4	AD	68	C	C4-C5	8.21	1.49	1.43
26	BB	188	G	N3-C4	8.21	1.41	1.35
26	BB	1994	C	O4'-C1'	8.21	1.52	1.41
26	BB	224	U	C4'-O4'	-8.21	1.34	1.45
26	BB	609	A	P-O5'	8.21	1.68	1.59
26	BB	2337	G	P-O5'	8.21	1.68	1.59
1	AA	700	G	O4'-C1'	8.21	1.52	1.41
1	AA	829	G	N3-C4	8.21	1.41	1.35
1	AA	1508	A	C5-C4	-8.21	1.33	1.38
26	BB	503	A	C6-N6	-8.20	1.27	1.33
26	BB	2331	G	P-O5'	8.20	1.68	1.59
1	AA	213	G	C2-N3	8.20	1.39	1.32
26	BB	909	A	N9-C4	8.20	1.42	1.37
26	BB	2447	G	C2-N3	8.20	1.39	1.32
1	AA	1094	G	P-O5'	8.20	1.68	1.59
26	BB	2036	C	P-O5'	8.20	1.68	1.59
26	BB	2746	U	N1-C2	8.20	1.46	1.38
1	AA	1425	U	O3'-P	8.19	1.71	1.61
26	BB	1055	G	C8-N7	-8.19	1.26	1.30
26	BB	1725	U	C3'-C2'	8.19	1.61	1.52
26	BB	2737	G	P-O5'	8.19	1.68	1.59
1	AA	168	G	N3-C4	8.19	1.41	1.35
1	AA	1092	A	N7-C5	-8.19	1.34	1.39
1	AA	1386	G	N7-C5	8.18	1.44	1.39
26	BB	544	C	P-O5'	8.18	1.68	1.59
26	BB	2873	A	N9-C4	8.18	1.42	1.37
1	AA	1470	U	C4-O4	8.18	1.30	1.23
26	BB	1833	C	O3'-P	8.18	1.71	1.61
26	BB	2708	G	C5'-C4'	8.18	1.61	1.51
1	AA	875	U	C2-N3	8.18	1.43	1.37
1	AA	1022	A	N3-C4	8.18	1.39	1.34
1	AA	1237	C	P-O5'	8.18	1.68	1.59
1	AA	421	U	C2-N3	8.18	1.43	1.37
26	BB	993	G	N3-C4	-8.18	1.29	1.35
26	BB	1215	G	N3-C4	8.18	1.41	1.35
1	AA	838	G	C6-N1	8.17	1.45	1.39
26	BB	622	G	C6-O6	-8.17	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	716	A	N3-C4	8.17	1.39	1.34
1	AA	1170	A	C5-C4	-8.17	1.33	1.38
1	AA	1329	A	N3-C4	8.17	1.39	1.34
4	AD	77	A	C8-N7	-8.17	1.25	1.31
26	BB	1141	U	C2-N3	8.17	1.43	1.37
26	BB	1253	A	O3'-P	8.17	1.71	1.61
26	BB	1318	U	P-O5'	8.17	1.68	1.59
26	BB	1690	A	N9-C4	-8.17	1.32	1.37
26	BB	2793	C	C4-C5	8.17	1.49	1.43
1	AA	452	A	P-O5'	8.16	1.68	1.59
26	BB	1423	G	C5-C4	8.16	1.44	1.38
26	BB	98	G	N7-C5	8.16	1.44	1.39
26	BB	847	U	N1-C2	8.16	1.45	1.38
26	BB	956	G	N9-C8	8.16	1.43	1.37
26	BB	2290	G	C4'-C3'	8.16	1.62	1.53
1	AA	93	U	N1-C2	8.16	1.45	1.38
1	AA	682	G	P-O5'	8.16	1.68	1.59
1	AA	1378	C	C2-O2	-8.16	1.17	1.24
26	BB	172	A	N7-C5	8.16	1.44	1.39
26	BB	1528	A	P-O5'	8.16	1.68	1.59
26	BB	1797	G	C5-C4	8.16	1.44	1.38
26	BB	2298	A	C8-N7	-8.16	1.25	1.31
1	AA	424	G	P-O5'	8.16	1.68	1.59
1	AA	1356	G	C6-N1	8.16	1.45	1.39
26	BB	1095	A	N1-C2	8.16	1.41	1.34
26	BB	1896	G	O4'-C1'	8.16	1.52	1.41
26	BB	2294	G	N1-C2	8.16	1.44	1.37
26	BB	2625	G	P-O5'	8.16	1.68	1.59
1	AA	1075	U	C4-C5	8.15	1.50	1.43
26	BB	16	C	C4-C5	8.15	1.49	1.43
26	BB	26	G	P-O5'	8.15	1.68	1.59
1	AA	1189	U	C5'-C4'	8.15	1.61	1.51
1	AA	239	U	N1-C2	8.15	1.45	1.38
26	BB	1466	U	C4'-O4'	-8.15	1.34	1.45
26	BB	1742	U	C4-C5	8.15	1.50	1.43
26	BB	376	G	N3-C4	8.15	1.41	1.35
26	BB	2382	G	C6-N1	8.15	1.45	1.39
26	BB	2489	U	P-O5'	8.14	1.67	1.59
26	BB	1151	A	C8-N7	-8.14	1.25	1.31
26	BB	2357	G	N1-C2	8.14	1.44	1.37
26	BB	1976	U	N1-C2	8.14	1.45	1.38
1	AA	1105	A	C5-C4	-8.14	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2470	G	N7-C5	-8.14	1.34	1.39
26	BB	941	A	N7-C5	-8.14	1.34	1.39
26	BB	1640	A	N3-C4	8.14	1.39	1.34
26	BB	2064	C	C2'-C1'	8.14	1.62	1.53
26	BB	1546	G	C3'-C2'	-8.13	1.43	1.52
26	BB	505	A	C6-N1	8.13	1.41	1.35
26	BB	2660	A	N7-C5	8.13	1.44	1.39
26	BB	2728	U	C5'-C4'	8.13	1.61	1.51
26	BB	951	C	C2-N3	-8.13	1.29	1.35
26	BB	190	A	P-O5'	8.13	1.67	1.59
25	BA	36	C	P-O5'	8.12	1.67	1.59
26	BB	1357	C	P-O5'	8.12	1.67	1.59
1	AA	113	G	C4'-O4'	-8.12	1.34	1.45
26	BB	559	G	N1-C2	8.12	1.44	1.37
26	BB	2808	G	N7-C5	-8.12	1.34	1.39
1	AA	1409	C	C4'-C3'	8.12	1.62	1.53
1	AA	483	C	N3-C4	8.12	1.39	1.33
1	AA	1073	U	P-O5'	8.12	1.67	1.59
26	BB	24	G	P-O5'	8.12	1.67	1.59
26	BB	307	G	C6-N1	-8.12	1.33	1.39
26	BB	1330	C	P-O5'	8.12	1.67	1.59
1	AA	551	U	C3'-C2'	8.12	1.61	1.52
1	AA	1347	G	N1-C2	8.12	1.44	1.37
26	BB	750	A	P-O5'	8.12	1.67	1.59
26	BB	1227	G	C2-N3	8.12	1.39	1.32
26	BB	2469	A	C6-N1	8.11	1.41	1.35
1	AA	1061	G	N7-C5	-8.11	1.34	1.39
26	BB	1950	G	C6-N1	8.11	1.45	1.39
1	AA	468	A	P-O5'	8.11	1.67	1.59
1	AA	771	G	N7-C5	-8.11	1.34	1.39
26	BB	200	U	O3'-P	8.11	1.70	1.61
26	BB	543	G	C8-N7	8.11	1.35	1.30
26	BB	553	G	C6-N1	8.11	1.45	1.39
26	BB	89	A	P-O5'	8.11	1.67	1.59
26	BB	1982	U	P-O5'	8.11	1.67	1.59
25	BA	92	C	N3-C4	8.11	1.39	1.33
26	BB	2249	U	C4-O4	-8.11	1.17	1.23
1	AA	325	A	C2'-O2'	8.11	1.52	1.41
26	BB	1286	A	N3-C4	8.11	1.39	1.34
26	BB	1680	U	P-O5'	8.10	1.67	1.59
26	BB	1765	U	C5-C6	8.10	1.41	1.34
26	BB	1708	C	C5'-C4'	8.10	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	953	G	N9-C4	8.10	1.44	1.38
25	BA	10	G	N3-C4	8.10	1.41	1.35
26	BB	197	A	C5'-C4'	8.10	1.61	1.51
26	BB	752	A	P-O5'	8.10	1.67	1.59
26	BB	819	A	N3-C4	8.10	1.39	1.34
26	BB	2226	C	C5'-C4'	8.10	1.61	1.51
1	AA	254	G	N7-C5	8.10	1.44	1.39
26	BB	35	G	C2-N3	8.10	1.39	1.32
26	BB	986	C	N3-C4	8.10	1.39	1.33
26	BB	2617	U	C2-N3	8.10	1.43	1.37
26	BB	2757	A	C5-C4	-8.10	1.33	1.38
1	AA	348	G	O3'-P	8.09	1.70	1.61
4	AD	28	U	C4-C5	8.09	1.50	1.43
26	BB	2057	G	N7-C5	-8.09	1.34	1.39
26	BB	2800	A	C8-N7	-8.09	1.25	1.31
1	AA	48	C	C5-C6	8.09	1.40	1.34
1	AA	124	C	C2'-O2'	-8.09	1.31	1.41
1	AA	731	G	C8-N7	-8.09	1.26	1.30
26	BB	1220	G	P-O5'	8.09	1.67	1.59
1	AA	190	A	C3'-C2'	8.09	1.61	1.52
1	AA	413	G	C2-N3	8.09	1.39	1.32
26	BB	2373	G	N7-C5	-8.09	1.34	1.39
26	BB	577	G	C6-N1	8.09	1.45	1.39
26	BB	2015	A	N3-C4	8.09	1.39	1.34
26	BB	2359	C	P-O5'	8.09	1.67	1.59
1	AA	486	U	C2-O2	8.08	1.29	1.22
1	AA	1222	G	N1-C2	8.08	1.44	1.37
26	BB	114	U	C2-N3	8.08	1.43	1.37
26	BB	2848	G	C2-N3	8.08	1.39	1.32
1	AA	1191	A	N3-C4	8.08	1.39	1.34
26	BB	1854	A	N9-C4	8.08	1.42	1.37
26	BB	2232	C	C5-C6	8.08	1.40	1.34
26	BB	1823	G	P-O5'	8.08	1.67	1.59
26	BB	2799	A	N7-C5	8.08	1.44	1.39
26	BB	336	C	C3'-C2'	-8.08	1.43	1.52
1	AA	358	U	C5'-C4'	8.08	1.61	1.51
26	BB	662	G	C2-N3	8.08	1.39	1.32
26	BB	866	A	P-O5'	8.08	1.67	1.59
26	BB	2166	U	N1-C6	8.08	1.45	1.38
1	AA	648	A	N9-C4	8.07	1.42	1.37
26	BB	1684	G	N1-C2	8.07	1.44	1.37
26	BB	2248	C	P-O5'	8.07	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2336	A	N7-C5	8.07	1.44	1.39
26	BB	2818	U	C5'-C4'	8.07	1.61	1.51
1	AA	1133	G	N3-C4	8.07	1.41	1.35
26	BB	1470	A	N9-C4	-8.07	1.33	1.37
1	AA	207	C	N1-C2	8.07	1.48	1.40
26	BB	2463	C	N1-C6	8.07	1.42	1.37
1	AA	164	G	C6-N1	8.07	1.45	1.39
1	AA	602	A	N3-C4	8.07	1.39	1.34
1	AA	1417	G	P-O5'	8.07	1.67	1.59
26	BB	950	G	C6-N1	8.07	1.45	1.39
26	BB	1190	G	N9-C8	-8.07	1.32	1.37
26	BB	825	A	N9-C4	-8.06	1.33	1.37
26	BB	2397	G	C2-N3	8.06	1.39	1.32
1	AA	464	U	P-O5'	8.06	1.67	1.59
1	AA	784	A	O3'-P	8.06	1.70	1.61
26	BB	2486	C	P-O5'	8.06	1.67	1.59
26	BB	2558	C	O3'-P	8.06	1.70	1.61
1	AA	1292	G	N7-C5	8.06	1.44	1.39
1	AA	1422	G	N9-C4	-8.06	1.31	1.38
1	AA	11	G	N3-C4	8.06	1.41	1.35
1	AA	834	U	P-O5'	8.05	1.67	1.59
1	AA	1319	A	C8-N7	-8.05	1.25	1.31
26	BB	1547	C	C5-C6	8.05	1.40	1.34
26	BB	561	G	C6-N1	8.05	1.45	1.39
26	BB	2235	G	C5'-C4'	8.05	1.61	1.51
1	AA	224	U	C2'-C1'	8.05	1.62	1.53
1	AA	1444	U	N1-C2	8.05	1.45	1.38
2	AB	12	U	N1-C2	8.05	1.45	1.38
3	AC	37	G	N1-C2	-8.05	1.31	1.37
26	BB	1387	A	P-O5'	8.05	1.67	1.59
26	BB	2140	G	N7-C5	-8.05	1.34	1.39
26	BB	2414	G	P-O5'	8.05	1.67	1.59
26	BB	149	A	N3-C4	8.05	1.39	1.34
26	BB	1631	G	C6-N1	8.05	1.45	1.39
26	BB	947	A	C5'-C4'	8.05	1.61	1.51
1	AA	1347	G	N7-C5	-8.04	1.34	1.39
26	BB	809	G	P-O5'	8.04	1.67	1.59
26	BB	2086	U	C5-C6	8.05	1.41	1.34
26	BB	1649	G	C3'-C2'	8.04	1.61	1.52
1	AA	425	G	C4'-O4'	-8.04	1.35	1.45
1	AA	777	A	N9-C4	8.04	1.42	1.37
1	AA	1104	G	C8-N7	-8.04	1.26	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1743	G	C2'-C1'	-8.04	1.44	1.53
1	AA	851	G	N9-C4	8.04	1.44	1.38
26	BB	1470	A	C4'-O4'	-8.04	1.35	1.45
1	AA	1390	U	N1-C2	-8.04	1.31	1.38
1	AA	1476	A	C6-N1	8.04	1.41	1.35
26	BB	1294	U	C2'-C1'	8.04	1.62	1.53
1	AA	201	G	N7-C5	-8.03	1.34	1.39
26	BB	1003	G	C2-N3	8.03	1.39	1.32
1	AA	1153	G	N3-C4	8.03	1.41	1.35
26	BB	843	G	N9-C8	8.03	1.43	1.37
26	BB	885	C	C1'-N1	8.03	1.60	1.48
26	BB	2422	C	C4-C5	8.03	1.49	1.43
1	AA	707	U	C2-N3	8.03	1.43	1.37
26	BB	236	C	O3'-P	8.03	1.70	1.61
26	BB	1183	U	C5-C6	8.03	1.41	1.34
1	AA	847	G	C2-N3	8.02	1.39	1.32
1	AA	1132	C	C3'-C2'	8.02	1.61	1.52
1	AA	1438	G	C8-N7	8.02	1.35	1.30
26	BB	2573	C	C4-N4	8.02	1.41	1.33
26	BB	2739	U	C2-N3	8.02	1.43	1.37
26	BB	1411	U	P-O5'	8.02	1.67	1.59
26	BB	2441	U	C2-N3	8.02	1.43	1.37
26	BB	2810	A	P-O5'	8.02	1.67	1.59
1	AA	859	G	P-O5'	-8.02	1.51	1.59
1	AA	1169	A	C5-C4	-8.02	1.33	1.38
1	AA	1415	G	C4'-C3'	8.02	1.61	1.53
26	BB	69	C	C2-N3	8.02	1.42	1.35
26	BB	2668	G	N1-C2	8.02	1.44	1.37
26	BB	2894	G	N3-C4	8.02	1.41	1.35
26	BB	697	G	N9-C4	8.02	1.44	1.38
26	BB	2133	G	C2-N3	8.02	1.39	1.32
1	AA	841	C	C4'-O4'	-8.01	1.35	1.45
26	BB	424	G	N1-C2	8.01	1.44	1.37
26	BB	582	A	N3-C4	8.01	1.39	1.34
26	BB	630	G	N7-C5	8.01	1.44	1.39
26	BB	726	G	N9-C4	-8.01	1.31	1.38
26	BB	2229	U	P-O5'	8.01	1.67	1.59
1	AA	435	A	C6-N1	8.01	1.41	1.35
1	AA	930	C	C5-C6	8.01	1.40	1.34
1	AA	217	C	N3-C4	8.01	1.39	1.33
1	AA	1381	U	C2'-C1'	8.01	1.62	1.53
1	AA	1381	U	C2-N3	8.01	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	749	A	P-O5'	-8.01	1.51	1.59
26	BB	1036	G	P-O5'	8.01	1.67	1.59
26	BB	1819	A	O3'-P	8.01	1.70	1.61
26	BB	2308	G	C6-N1	8.01	1.45	1.39
1	AA	61	G	P-O5'	8.01	1.67	1.59
1	AA	303	A	N7-C5	-8.01	1.34	1.39
26	BB	148	U	C4'-O4'	-8.01	1.35	1.45
26	BB	214	G	O3'-P	8.01	1.70	1.61
26	BB	2667	C	C4'-O4'	-8.01	1.35	1.45
26	BB	1529	G	N7-C5	8.01	1.44	1.39
26	BB	2289	G	C6-N1	8.00	1.45	1.39
25	BA	44	G	P-O5'	8.00	1.67	1.59
26	BB	2791	G	C2'-C1'	8.00	1.62	1.53
25	BA	100	G	C5'-C4'	8.00	1.60	1.51
26	BB	1431	A	N9-C8	8.00	1.44	1.37
1	AA	138	G	P-O5'	8.00	1.67	1.59
2	AB	57	G	P-O5'	8.00	1.67	1.59
26	BB	1543	G	C4'-O4'	-8.00	1.35	1.45
26	BB	2423	U	C4-O4	8.00	1.30	1.23
1	AA	786	G	N9-C4	8.00	1.44	1.38
1	AA	701	U	C2-N3	7.99	1.43	1.37
1	AA	1035	A	N7-C5	-7.99	1.34	1.39
2	AB	73	G	N7-C5	-7.99	1.34	1.39
26	BB	502	A	N7-C5	7.99	1.44	1.39
26	BB	721	A	N7-C5	7.99	1.44	1.39
26	BB	1128	G	P-O5'	7.99	1.67	1.59
26	BB	1330	C	N3-C4	7.99	1.39	1.33
26	BB	1816	C	C5-C6	7.99	1.40	1.34
26	BB	1388	G	N9-C4	-7.99	1.31	1.38
1	AA	797	C	C4'-O4'	-7.99	1.35	1.45
1	AA	602	A	C2-N3	7.99	1.40	1.33
1	AA	1373	G	C6-O6	-7.98	1.17	1.24
1	AA	1101	A	N7-C5	-7.98	1.34	1.39
26	BB	2092	U	C4'-C3'	7.98	1.61	1.53
1	AA	496	A	N7-C5	-7.98	1.34	1.39
26	BB	1591	A	P-O5'	7.98	1.67	1.59
1	AA	353	A	O3'-P	7.98	1.70	1.61
1	AA	624	C	N3-C4	7.98	1.39	1.33
1	AA	1355	G	C6-N1	-7.98	1.33	1.39
26	BB	1459	G	P-O5'	7.98	1.67	1.59
26	BB	524	G	N7-C5	-7.97	1.34	1.39
1	AA	1048	G	N1-C2	7.97	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	793	A	N3-C4	7.97	1.39	1.34
26	BB	1167	C	N3-C4	-7.97	1.28	1.33
1	AA	976	G	P-O5'	7.97	1.67	1.59
1	AA	1140	C	C5-C6	7.97	1.40	1.34
26	BB	778	G	C5-C4	-7.97	1.32	1.38
26	BB	1454	C	P-O5'	7.97	1.67	1.59
26	BB	61	C	N3-C4	7.97	1.39	1.33
26	BB	469	G	C2-N3	7.97	1.39	1.32
26	BB	938	G	N3-C4	7.97	1.41	1.35
26	BB	971	G	C6-N1	7.97	1.45	1.39
26	BB	2627	G	N7-C5	7.97	1.44	1.39
1	AA	636	U	C2-O2	7.97	1.29	1.22
1	AA	1146	A	N9-C4	7.97	1.42	1.37
1	AA	1475	G	N7-C5	7.97	1.44	1.39
1	AA	1179	A	C5-C4	-7.96	1.33	1.38
1	AA	1428	A	O3'-P	7.96	1.70	1.61
1	AA	1479	C	C5-C6	7.96	1.40	1.34
1	AA	1505	G	C8-N7	7.96	1.35	1.30
26	BB	1706	C	P-O5'	-7.96	1.51	1.59
26	BB	2671	G	N7-C5	-7.96	1.34	1.39
26	BB	212	G	C8-N7	-7.96	1.26	1.30
26	BB	2196	C	N3-C4	7.96	1.39	1.33
1	AA	68	G	P-O5'	7.96	1.67	1.59
26	BB	1486	U	C2-N3	7.96	1.43	1.37
1	AA	1426	G	C8-N7	7.96	1.35	1.30
1	AA	1514	G	N9-C4	7.96	1.44	1.38
26	BB	633	A	P-O5'	7.96	1.67	1.59
26	BB	1026	G	C2'-C1'	-7.96	1.44	1.53
1	AA	431	A	N7-C5	-7.96	1.34	1.39
1	AA	1361	G	N1-C2	7.96	1.44	1.37
26	BB	1045	C	C2'-C1'	-7.96	1.44	1.53
1	AA	1345	U	N1-C2	7.95	1.45	1.38
26	BB	407	G	N9-C8	-7.95	1.32	1.37
26	BB	2530	A	N7-C5	-7.95	1.34	1.39
1	AA	1243	C	N1-C6	7.95	1.42	1.37
25	BA	79	G	N9-C4	7.95	1.44	1.38
26	BB	2158	A	P-O5'	7.95	1.67	1.59
26	BB	2440	C	P-O5'	7.95	1.67	1.59
26	BB	2224	G	C6-N1	7.95	1.45	1.39
26	BB	1986	C	C5-C6	-7.95	1.27	1.34
1	AA	1189	U	N3-C4	7.95	1.45	1.38
13	AM	79	PRO	N-CD	-7.95	1.36	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	327	G	N7-C5	-7.95	1.34	1.39
26	BB	535	G	N9-C4	-7.95	1.31	1.38
1	AA	177	G	C6-N1	7.94	1.45	1.39
26	BB	1658	C	N1-C6	7.94	1.42	1.37
26	BB	1822	C	N1-C6	-7.94	1.32	1.37
1	AA	492	C	P-O5'	7.94	1.67	1.59
26	BB	1766	G	C2-N3	7.94	1.39	1.32
1	AA	581	G	C5-C6	7.94	1.50	1.42
1	AA	627	G	C5-C4	7.94	1.44	1.38
26	BB	305	C	C2-N3	7.94	1.42	1.35
1	AA	1082	A	C5'-C4'	7.94	1.60	1.51
26	BB	648	G	N3-C4	7.94	1.41	1.35
1	AA	175	C	N3-C4	7.93	1.39	1.33
1	AA	1303	C	P-O5'	7.93	1.67	1.59
1	AA	1339	A	C6-N1	-7.93	1.29	1.35
26	BB	1650	A	C5-C4	-7.93	1.33	1.38
26	BB	706	A	C6-N1	-7.93	1.29	1.35
26	BB	751	A	N3-C4	7.93	1.39	1.34
1	AA	104	G	N3-C4	-7.93	1.29	1.35
4	AD	29	C	C3'-C2'	-7.93	1.44	1.52
26	BB	1787	A	N9-C4	7.93	1.42	1.37
26	BB	2359	C	C4'-O4'	-7.93	1.35	1.45
25	BA	3	C	C4-C5	7.93	1.49	1.43
1	AA	277	C	C4'-C3'	-7.93	1.44	1.53
1	AA	817	C	N1-C6	7.93	1.42	1.37
26	BB	1259	G	N3-C4	7.93	1.41	1.35
26	BB	1306	C	O3'-P	7.93	1.70	1.61
26	BB	1803	A	N9-C8	7.93	1.44	1.37
26	BB	2360	G	C5-C6	7.93	1.50	1.42
1	AA	1467	C	C4-N4	7.92	1.41	1.33
26	BB	923	G	C2'-C1'	7.92	1.62	1.53
26	BB	1025	G	P-O5'	7.92	1.67	1.59
26	BB	2781	A	P-O5'	7.92	1.67	1.59
1	AA	393	A	C6-N6	7.92	1.40	1.33
26	BB	255	A	C5'-C4'	7.92	1.60	1.51
26	BB	693	A	C5'-C4'	7.92	1.60	1.51
26	BB	740	C	C5'-C4'	7.92	1.60	1.51
26	BB	1710	G	O3'-P	7.92	1.70	1.61
26	BB	1787	A	N7-C5	-7.92	1.34	1.39
26	BB	1982	U	O3'-P	7.92	1.70	1.61
26	BB	1120	G	C5'-C4'	7.92	1.60	1.51
1	AA	287	U	N3-C4	7.92	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1191	A	N7-C5	7.92	1.44	1.39
26	BB	498	G	P-O5'	-7.92	1.51	1.59
4	AD	30	G	P-O5'	7.92	1.67	1.59
26	BB	930	G	N1-C2	7.92	1.44	1.37
26	BB	2456	C	N3-C4	7.92	1.39	1.33
26	BB	2426	A	N9-C4	7.92	1.42	1.37
1	AA	327	A	C6-N1	7.91	1.41	1.35
1	AA	569	C	N1-C6	-7.91	1.32	1.37
25	BA	118	C	C2'-C1'	7.91	1.62	1.53
26	BB	1619	G	O3'-P	7.91	1.70	1.61
26	BB	2122	U	O3'-P	7.91	1.70	1.61
26	BB	2217	G	C8-N7	7.91	1.35	1.30
1	AA	277	C	O3'-P	7.91	1.70	1.61
26	BB	1945	G	C5-C4	-7.91	1.32	1.38
1	AA	116	A	C5'-C4'	7.91	1.60	1.51
1	AA	1386	G	C8-N7	7.91	1.35	1.30
1	AA	68	G	N7-C5	-7.91	1.34	1.39
1	AA	589	U	O3'-P	7.91	1.70	1.61
26	BB	1504	A	C1'-N9	7.91	1.60	1.48
1	AA	1434	A	N9-C4	7.90	1.42	1.37
26	BB	2095	A	O3'-P	7.90	1.70	1.61
1	AA	1442	G	C2-N3	7.90	1.39	1.32
26	BB	2197	U	N1-C2	7.90	1.45	1.38
26	BB	2791	G	C5'-C4'	7.90	1.60	1.51
1	AA	59	A	N3-C4	7.90	1.39	1.34
3	AC	36	U	P-O5'	7.90	1.67	1.59
1	AA	326	G	N3-C4	7.90	1.41	1.35
25	BA	30	C	C4'-O4'	-7.90	1.35	1.45
26	BB	230	G	C2-N3	7.90	1.39	1.32
26	BB	2394	C	N1-C6	7.90	1.41	1.37
1	AA	1108	G	N3-C4	7.90	1.41	1.35
26	BB	1699	G	C5-C4	7.90	1.43	1.38
1	AA	681	A	C6-N1	-7.89	1.30	1.35
26	BB	2080	A	C8-N7	-7.89	1.26	1.31
1	AA	1160	G	C2-N3	7.89	1.39	1.32
26	BB	2735	G	C6-O6	-7.89	1.17	1.24
1	AA	223	A	N7-C5	-7.89	1.34	1.39
1	AA	1291	U	C2-N3	7.89	1.43	1.37
26	BB	1324	G	P-O5'	7.89	1.67	1.59
26	BB	1425	G	C2'-C1'	7.89	1.62	1.53
1	AA	504	C	N1-C6	-7.89	1.32	1.37
26	BB	234	U	C2-N3	7.89	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	647	G	N1-C2	7.89	1.44	1.37
26	BB	1021	A	P-O5'	7.89	1.67	1.59
26	BB	1372	U	P-O5'	7.89	1.67	1.59
1	AA	832	G	N9-C8	-7.88	1.32	1.37
26	BB	489	G	N7-C5	7.88	1.44	1.39
26	BB	605	G	N9-C8	7.88	1.43	1.37
1	AA	11	G	P-O5'	7.88	1.67	1.59
25	BA	16	G	O3'-P	7.88	1.70	1.61
26	BB	214	G	C2-N3	7.88	1.39	1.32
26	BB	2268	A	O4'-C1'	7.88	1.51	1.41
26	BB	2513	A	C6-N1	-7.88	1.30	1.35
1	AA	780	A	P-O5'	7.88	1.67	1.59
26	BB	1493	C	C4-C5	-7.88	1.36	1.43
1	AA	491	G	C2-N3	7.88	1.39	1.32
1	AA	723	U	C2-N3	7.88	1.43	1.37
25	BA	76	G	P-O5'	7.88	1.67	1.59
26	BB	1799	G	N9-C8	-7.88	1.32	1.37
26	BB	1980	G	P-O5'	7.88	1.67	1.59
26	BB	2355	G	N7-C5	-7.88	1.34	1.39
1	AA	32	A	C8-N7	7.87	1.37	1.31
1	AA	1120	C	C4-C5	7.87	1.49	1.43
1	AA	1279	G	C4'-O4'	-7.87	1.35	1.45
26	BB	2148	G	C2-N3	7.87	1.39	1.32
26	BB	505	A	N3-C4	7.87	1.39	1.34
26	BB	1518	C	P-O5'	7.87	1.67	1.59
4	AD	21	H2U	O3'-P	7.87	1.70	1.61
1	AA	139	A	N9-C4	7.87	1.42	1.37
1	AA	608	A	C5'-C4'	7.87	1.60	1.51
26	BB	700	G	C6-N1	7.87	1.45	1.39
26	BB	2310	C	C4-N4	7.87	1.41	1.33
26	BB	13	A	N7-C5	7.87	1.44	1.39
26	BB	1246	A	N7-C5	7.87	1.44	1.39
26	BB	2867	G	C2-N3	7.87	1.39	1.32
1	AA	541	G	C2'-C1'	-7.86	1.44	1.53
1	AA	92	U	C2-N3	7.86	1.43	1.37
26	BB	10	A	C5-C4	7.86	1.44	1.38
26	BB	1901	A	C6-N1	7.86	1.41	1.35
26	BB	2314	A	C6-N1	-7.86	1.30	1.35
26	BB	710	U	C2-N3	7.86	1.43	1.37
26	BB	2597	G	N3-C4	-7.86	1.29	1.35
26	BB	2821	A	N7-C5	7.86	1.44	1.39
1	AA	724	G	C6-N1	7.86	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1362	A	N3-C4	7.86	1.39	1.34
26	BB	543	G	C2-N3	7.86	1.39	1.32
26	BB	1541	C	C4-N4	7.86	1.41	1.33
26	BB	2564	A	C5'-C4'	7.86	1.60	1.51
26	BB	1479	G	N3-C4	7.85	1.41	1.35
26	BB	2089	C	C5-C6	7.85	1.40	1.34
26	BB	776	G	C4'-C3'	7.85	1.61	1.53
4	AD	65	G	N9-C8	-7.85	1.32	1.37
26	BB	918	A	C8-N7	-7.85	1.26	1.31
26	BB	2071	A	N3-C4	7.85	1.39	1.34
1	AA	1066	C	N1-C6	7.85	1.41	1.37
26	BB	872	U	C4-C5	7.85	1.50	1.43
25	BA	13	G	P-O5'	7.84	1.67	1.59
2	AB	29	G	N9-C4	7.84	1.44	1.38
1	AA	29	U	C2-N3	7.84	1.43	1.37
26	BB	66	C	C4-C5	7.84	1.49	1.43
26	BB	2894	G	C5-C4	-7.84	1.32	1.38
1	AA	1329	A	C6-N1	-7.84	1.30	1.35
26	BB	687	C	N3-C4	7.84	1.39	1.33
26	BB	1521	G	C8-N7	-7.84	1.26	1.30
26	BB	2269	G	C6-N1	-7.84	1.34	1.39
26	BB	1763	G	C2-N3	7.84	1.39	1.32
1	AA	1363	A	N3-C4	7.83	1.39	1.34
1	AA	541	G	C2-N3	7.83	1.39	1.32
1	AA	838	G	C8-N7	-7.83	1.26	1.30
1	AA	1141	C	C5-C6	7.83	1.40	1.34
26	BB	463	G	C5'-C4'	7.83	1.60	1.51
26	BB	387	U	O3'-P	7.83	1.70	1.61
26	BB	290	U	C5'-C4'	7.83	1.60	1.51
26	BB	907	G	C5'-C4'	7.83	1.60	1.51
26	BB	1041	G	C2-N3	7.83	1.39	1.32
26	BB	1450	G	N3-C4	7.83	1.41	1.35
26	BB	1458	U	C2-N3	7.83	1.43	1.37
1	AA	193	C	P-O5'	7.83	1.67	1.59
26	BB	1374	G	C8-N7	-7.83	1.26	1.30
26	BB	2424	C	P-O5'	7.83	1.67	1.59
26	BB	763	G	C2-N3	7.83	1.39	1.32
26	BB	1056	G	C6-N1	7.83	1.45	1.39
26	BB	1638	C	O3'-P	7.83	1.70	1.61
1	AA	377	G	C6-N1	7.82	1.45	1.39
1	AA	944	G	C5'-C4'	7.82	1.60	1.51
1	AA	1347	G	N3-C4	7.82	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	170	U	P-O5'	7.82	1.67	1.59
26	BB	300	A	N7-C5	-7.82	1.34	1.39
26	BB	2381	A	C6-N6	7.82	1.40	1.33
26	BB	2044	C	C4-N4	7.82	1.41	1.33
26	BB	2350	C	C2-N3	7.82	1.42	1.35
26	BB	759	G	C4'-O4'	-7.82	1.35	1.45
1	AA	947	G	C2-N3	7.82	1.39	1.32
1	AA	1477	U	C5'-C4'	7.82	1.60	1.51
26	BB	488	G	N3-C4	7.82	1.41	1.35
26	BB	634	C	C2-N3	7.82	1.42	1.35
26	BB	2653	U	P-O5'	7.82	1.67	1.59
26	BB	830	G	C4'-O4'	-7.82	1.35	1.45
26	BB	45	G	N9-C8	-7.81	1.32	1.37
26	BB	68	G	P-O5'	7.81	1.67	1.59
26	BB	1896	G	C4'-C3'	-7.81	1.44	1.53
26	BB	829	A	N7-C5	7.81	1.44	1.39
26	BB	528	A	N9-C4	7.81	1.42	1.37
26	BB	733	G	C2-N3	7.81	1.39	1.32
26	BB	2419	U	C4'-O4'	-7.81	1.35	1.45
1	AA	232	G	N1-C2	7.81	1.44	1.37
1	AA	1003	G	N3-C4	7.81	1.41	1.35
1	AA	1335	U	C2-N3	7.81	1.43	1.37
26	BB	175	G	N7-C5	7.81	1.44	1.39
26	BB	770	G	N9-C8	-7.81	1.32	1.37
1	AA	101	A	N9-C8	7.81	1.44	1.37
26	BB	1046	A	N7-C5	-7.81	1.34	1.39
1	AA	993	G	C5'-C4'	7.80	1.60	1.51
26	BB	458	G	C6-N1	7.80	1.45	1.39
26	BB	690	G	C5-C4	-7.80	1.32	1.38
26	BB	2617	U	C4-C5	7.80	1.50	1.43
1	AA	1254	A	N7-C5	7.80	1.44	1.39
1	AA	182	A	O3'-P	7.80	1.70	1.61
1	AA	628	G	N7-C5	7.80	1.44	1.39
1	AA	753	A	P-O5'	7.80	1.67	1.59
1	AA	979	C	C5-C6	7.80	1.40	1.34
1	AA	1147	C	C5-C6	7.80	1.40	1.34
26	BB	2407	A	C5-C4	7.80	1.44	1.38
1	AA	154	U	C2-N3	7.80	1.43	1.37
26	BB	505	A	C5-C4	-7.80	1.33	1.38
26	BB	1424	G	P-O5'	7.80	1.67	1.59
26	BB	2525	G	N1-C2	-7.80	1.31	1.37
26	BB	2804	U	C4'-O4'	-7.80	1.35	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2827	C	C5-C6	7.80	1.40	1.34
1	AA	1199	U	N3-C4	-7.79	1.31	1.38
26	BB	265	A	N7-C5	7.79	1.44	1.39
26	BB	2797	U	C4-C5	7.79	1.50	1.43
3	AC	50	U	C2-N3	7.79	1.43	1.37
4	AD	11	A	C4'-O4'	-7.79	1.35	1.45
26	BB	240	C	C5-C6	7.79	1.40	1.34
26	BB	1350	C	O3'-P	-7.79	1.51	1.61
1	AA	632	U	N1-C2	7.79	1.45	1.38
26	BB	1354	A	C4'-C3'	7.79	1.61	1.53
26	BB	1763	G	N9-C8	-7.79	1.32	1.37
1	AA	618	C	N1-C6	7.79	1.41	1.37
4	AD	42	C	P-O5'	7.79	1.67	1.59
26	BB	1077	A	N9-C8	-7.79	1.31	1.37
26	BB	2264	C	N1-C6	-7.79	1.32	1.37
1	AA	544	G	N3-C4	7.79	1.41	1.35
26	BB	145	C	C2'-C1'	-7.79	1.44	1.53
26	BB	1767	G	N9-C8	-7.79	1.32	1.37
26	BB	1624	U	C4'-O4'	-7.79	1.35	1.45
26	BB	2103	C	C4-N4	7.79	1.41	1.33
26	BB	2744	G	P-O5'	7.79	1.67	1.59
1	AA	708	C	N1-C6	7.78	1.41	1.37
1	AA	1225	A	N1-C2	-7.78	1.27	1.34
26	BB	1776	G	C5'-C4'	7.78	1.60	1.51
26	BB	2276	G	C5-C4	-7.78	1.32	1.38
26	BB	294	A	N7-C5	-7.78	1.34	1.39
26	BB	1874	C	C3'-C2'	7.78	1.61	1.52
1	AA	1156	G	C6-N1	7.78	1.45	1.39
26	BB	801	G	O3'-P	7.78	1.70	1.61
26	BB	2688	G	C2-N3	7.78	1.39	1.32
1	AA	1176	A	P-O5'	-7.78	1.51	1.59
4	AD	27	G	N7-C5	-7.78	1.34	1.39
26	BB	1362	C	C5'-C4'	7.78	1.60	1.51
26	BB	1505	A	N9-C8	7.78	1.44	1.37
26	BB	2802	G	C2-N2	-7.78	1.26	1.34
26	BB	242	G	C8-N7	7.77	1.35	1.30
1	AA	1452	C	O3'-P	7.77	1.70	1.61
26	BB	607	U	C2-N3	7.77	1.43	1.37
4	AD	28	U	C2-N3	7.77	1.43	1.37
26	BB	1251	C	C4-C5	-7.77	1.36	1.43
26	BB	2375	G	C6-N1	7.77	1.45	1.39
26	BB	2516	A	C8-N7	-7.77	1.26	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	458	U	C4-O4	7.77	1.29	1.23
1	AA	70	U	C2-N3	7.77	1.43	1.37
26	BB	338	G	O3'-P	7.77	1.70	1.61
26	BB	622	G	C5-C4	-7.77	1.32	1.38
26	BB	1525	A	C3'-O3'	-7.77	1.31	1.42
26	BB	2109	U	N1-C2	7.77	1.45	1.38
1	AA	344	A	C8-N7	-7.76	1.26	1.31
26	BB	2056	G	C8-N7	7.76	1.35	1.30
26	BB	2517	C	C4'-C3'	7.76	1.61	1.53
1	AA	118	U	C4-C5	7.76	1.50	1.43
25	BA	51	G	C6-N1	7.76	1.45	1.39
26	BB	620	G	C6-N1	7.76	1.45	1.39
26	BB	2552	OMU	O3'-P	7.76	1.70	1.61
1	AA	321	A	C8-N7	-7.76	1.26	1.31
26	BB	480	A	C8-N7	-7.76	1.26	1.31
26	BB	1625	C	C4'-O4'	-7.76	1.35	1.45
26	BB	1785	A	P-O5'	7.76	1.67	1.59
26	BB	2421	G	P-O5'	7.76	1.67	1.59
26	BB	2438	U	C5-C6	7.76	1.41	1.34
26	BB	210	C	N1-C6	7.76	1.41	1.37
25	BA	41	G	C5-C4	-7.76	1.32	1.38
1	AA	1357	A	N7-C5	-7.75	1.34	1.39
26	BB	1748	C	N1-C6	7.75	1.41	1.37
26	BB	2491	U	C4-C5	7.75	1.50	1.43
1	AA	1408	A	C4'-C3'	7.75	1.61	1.53
1	AA	58	C	O4'-C1'	7.75	1.51	1.41
26	BB	2700	A	C6-N1	7.75	1.41	1.35
26	BB	1528	A	N3-C4	7.75	1.39	1.34
1	AA	799	G	P-O5'	7.75	1.67	1.59
26	BB	2302	U	P-O5'	7.75	1.67	1.59
26	BB	1486	U	N1-C6	7.75	1.45	1.38
26	BB	2104	C	C4-C5	7.75	1.49	1.43
1	AA	459	A	N9-C4	-7.74	1.33	1.37
26	BB	997	G	C5-C4	7.74	1.43	1.38
26	BB	1105	U	C4-O4	-7.74	1.17	1.23
1	AA	1266	G	N1-C2	7.74	1.44	1.37
26	BB	891	G	C5-C4	-7.74	1.32	1.38
26	BB	1223	G	C5-C4	7.74	1.43	1.38
26	BB	2198	A	N7-C5	-7.74	1.34	1.39
1	AA	1162	C	N3-C4	7.74	1.39	1.33
26	BB	495	G	C2-N3	7.74	1.39	1.32
1	AA	302	G	C4'-O4'	-7.74	1.35	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	338	A	C2-N3	7.74	1.40	1.33
26	BB	2756	U	C2-N3	7.74	1.43	1.37
26	BB	2842	G	P-O5'	7.74	1.67	1.59
1	AA	703	G	C6-N1	7.73	1.45	1.39
26	BB	131	A	N9-C4	-7.73	1.33	1.37
26	BB	1410	G	C2-N3	7.73	1.39	1.32
26	BB	2293	G	C5-C4	7.73	1.43	1.38
1	AA	1205	U	C5'-C4'	7.73	1.60	1.51
26	BB	2658	C	P-O5'	7.73	1.67	1.59
1	AA	351	G	N3-C4	7.73	1.40	1.35
1	AA	661	G	C5'-C4'	7.73	1.60	1.51
1	AA	1176	A	N3-C4	7.73	1.39	1.34
3	AC	53	G	C3'-C2'	7.73	1.61	1.52
26	BB	1528	A	C6-N1	-7.73	1.30	1.35
26	BB	2727	A	C5'-C4'	7.73	1.60	1.51
1	AA	110	C	C4-C5	7.73	1.49	1.43
1	AA	93	U	C2-O2	7.72	1.29	1.22
26	BB	568	U	C2-N3	7.72	1.43	1.37
26	BB	965	C	C2'-C1'	-7.72	1.44	1.53
26	BB	1281	G	N3-C4	7.72	1.40	1.35
26	BB	1892	C	C5'-C4'	7.72	1.60	1.51
1	AA	976	G	C6-N1	7.72	1.45	1.39
26	BB	89	A	C5'-C4'	7.72	1.60	1.51
26	BB	1839	G	C5-C6	7.72	1.50	1.42
26	BB	2608	G	C5'-C4'	7.72	1.60	1.51
1	AA	89	U	C2-N3	7.72	1.43	1.37
1	AA	867	G	C2-N2	-7.72	1.26	1.34
26	BB	134	G	N1-C2	7.72	1.44	1.37
26	BB	1646	C	C4-C5	7.72	1.49	1.43
1	AA	61	G	C2-N2	-7.72	1.26	1.34
26	BB	563	A	N3-C4	7.72	1.39	1.34
26	BB	2549	G	C8-N7	7.72	1.35	1.30
1	AA	1032	G	C5'-C4'	7.72	1.60	1.51
1	AA	452	A	C5'-C4'	7.71	1.60	1.51
1	AA	1203	C	C5'-C4'	7.71	1.60	1.51
1	AA	28	A	C6-N1	-7.71	1.30	1.35
3	AC	33	A	C6-N1	-7.71	1.30	1.35
26	BB	1031	G	N3-C4	7.71	1.40	1.35
26	BB	1918	A	C5-C4	-7.71	1.33	1.38
1	AA	660	C	C5'-C4'	7.71	1.60	1.51
1	AA	630	A	N3-C4	7.71	1.39	1.34
26	BB	249	C	N3-C4	7.71	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1024	G	C6-N1	7.71	1.45	1.39
1	AA	630	A	P-O5'	7.71	1.67	1.59
1	AA	7	A	N9-C4	7.71	1.42	1.37
4	AD	14	A	N3-C4	7.71	1.39	1.34
26	BB	1603	A	P-O5'	7.71	1.67	1.59
26	BB	2423	U	C2-N3	7.70	1.43	1.37
26	BB	1275	A	N3-C4	7.70	1.39	1.34
26	BB	2305	U	C5-C6	7.70	1.41	1.34
26	BB	476	G	N1-C2	7.70	1.44	1.37
26	BB	1520	U	P-O5'	7.70	1.67	1.59
1	AA	151	A	N9-C4	-7.70	1.33	1.37
1	AA	378	G	C4'-C3'	-7.70	1.44	1.53
1	AA	456	A	N1-C2	-7.70	1.27	1.34
1	AA	563	A	C8-N7	-7.70	1.26	1.31
26	BB	843	G	C2-N3	7.70	1.39	1.32
26	BB	1117	C	P-O5'	7.70	1.67	1.59
26	BB	1453	A	N3-C4	7.69	1.39	1.34
26	BB	2895	G	N1-C2	7.69	1.44	1.37
1	AA	249	U	N1-C2	7.69	1.45	1.38
1	AA	1529	G	N3-C4	7.69	1.40	1.35
26	BB	1477	A	C5-C6	7.69	1.48	1.41
26	BB	2612	C	C5-C6	7.69	1.40	1.34
3	AC	24	A	C5-C4	-7.69	1.33	1.38
26	BB	1909	C	C2-N3	7.69	1.42	1.35
26	BB	2332	C	N3-C4	7.69	1.39	1.33
26	BB	1003	G	C5'-C4'	7.69	1.60	1.51
2	AB	23	A	N9-C4	7.69	1.42	1.37
26	BB	1157	G	N1-C2	-7.69	1.31	1.37
1	AA	803	G	P-O5'	7.68	1.67	1.59
26	BB	2286	G	N9-C4	-7.68	1.31	1.38
26	BB	148	U	C2-N3	7.68	1.43	1.37
26	BB	1352	U	C5-C6	7.68	1.41	1.34
26	BB	1893	C	O3'-P	7.68	1.70	1.61
26	BB	2436	G	C2-N3	7.68	1.38	1.32
1	AA	178	C	P-O5'	7.68	1.67	1.59
26	BB	2135	A	N9-C4	7.68	1.42	1.37
26	BB	2478	A	N3-C4	7.68	1.39	1.34
1	AA	563	A	P-O5'	7.68	1.67	1.59
1	AA	101	A	N3-C4	7.68	1.39	1.34
26	BB	1291	C	P-O5'	7.68	1.67	1.59
1	AA	1004	A	C5-C6	7.67	1.48	1.41
26	BB	1937	A	C6-N1	-7.67	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2361	G	N1-C2	7.67	1.43	1.37
26	BB	2755	C	P-O5'	7.67	1.67	1.59
1	AA	920	U	C4-C5	7.67	1.50	1.43
4	AD	7	G	C3'-C2'	7.67	1.61	1.52
26	BB	864	G	N9-C8	-7.67	1.32	1.37
26	BB	1598	A	O3'-P	7.67	1.70	1.61
26	BB	440	C	N3-C4	7.67	1.39	1.33
26	BB	1528	A	C8-N7	-7.67	1.26	1.31
1	AA	864	A	N1-C2	7.67	1.41	1.34
26	BB	426	C	N1-C6	7.67	1.41	1.37
26	BB	2119	A	C4'-O4'	-7.67	1.35	1.45
26	BB	2661	G	N1-C2	-7.67	1.31	1.37
1	AA	16	A	C5-C6	7.67	1.48	1.41
1	AA	144	G	C8-N7	-7.67	1.26	1.30
26	BB	1471	G	P-O5'	7.67	1.67	1.59
1	AA	12	U	O3'-P	7.66	1.70	1.61
26	BB	437	U	C5-C6	7.66	1.41	1.34
26	BB	206	U	O3'-P	7.66	1.70	1.61
26	BB	849	A	N9-C8	-7.66	1.31	1.37
26	BB	1187	G	N3-C4	7.66	1.40	1.35
26	BB	1332	G	C8-N7	-7.66	1.26	1.30
26	BB	2564	A	C2'-C1'	7.66	1.61	1.53
1	AA	547	A	N7-C5	7.65	1.43	1.39
26	BB	213	A	C5'-C4'	7.65	1.60	1.51
1	AA	523	A	P-O5'	7.65	1.67	1.59
1	AA	1150	A	C5'-C4'	7.65	1.60	1.51
26	BB	631	A	C4'-O4'	-7.65	1.35	1.45
26	BB	2005	A	O4'-C1'	7.65	1.51	1.41
26	BB	2315	G	P-O5'	7.65	1.67	1.59
1	AA	1134	G	N9-C8	7.65	1.43	1.37
26	BB	1557	C	C5'-C4'	7.65	1.60	1.51
1	AA	255	G	N3-C4	7.65	1.40	1.35
2	AB	19	G	N3-C4	7.65	1.40	1.35
26	BB	527	C	P-O5'	7.65	1.67	1.59
26	BB	301	G	C8-N7	7.64	1.35	1.30
26	BB	767	U	C4-C5	7.64	1.50	1.43
26	BB	1223	G	C5'-C4'	7.64	1.60	1.51
1	AA	1110	A	P-O5'	7.64	1.67	1.59
26	BB	2662	A	O3'-P	7.64	1.70	1.61
26	BB	193	U	C2-N3	7.64	1.43	1.37
26	BB	2314	A	N9-C4	7.64	1.42	1.37
1	AA	195	A	C2'-C1'	7.64	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	944	G	C6-N1	-7.64	1.34	1.39
1	AA	10	A	N7-C5	7.64	1.43	1.39
1	AA	926	G	N3-C4	7.64	1.40	1.35
1	AA	1188	A	N9-C8	-7.64	1.31	1.37
26	BB	494	G	N9-C8	7.64	1.43	1.37
26	BB	1391	U	P-O5'	7.64	1.67	1.59
26	BB	2573	C	P-O5'	7.64	1.67	1.59
26	BB	2742	G	C2'-O2'	-7.64	1.31	1.41
1	AA	865	A	N9-C8	7.63	1.43	1.37
1	AA	1133	G	C8-N7	-7.63	1.26	1.30
26	BB	1282	U	N1-C2	7.63	1.45	1.38
26	BB	1430	G	P-O5'	7.63	1.67	1.59
1	AA	558	G	C5-C6	7.63	1.50	1.42
26	BB	2344	U	C4-O4	-7.63	1.17	1.23
1	AA	249	U	C2-O2	7.63	1.29	1.22
1	AA	1150	A	N3-C4	7.63	1.39	1.34
26	BB	590	A	C8-N7	-7.63	1.26	1.31
26	BB	750	A	N3-C4	7.63	1.39	1.34
26	BB	1071	G	N7-C5	7.63	1.43	1.39
26	BB	988	A	C2'-C1'	7.63	1.61	1.53
26	BB	1722	A	C2'-C1'	-7.63	1.45	1.53
26	BB	2106	U	N3-C4	7.63	1.45	1.38
26	BB	2560	A	C5-C4	-7.63	1.33	1.38
26	BB	2801	G	C4'-C3'	7.63	1.61	1.53
1	AA	414	A	P-O5'	7.63	1.67	1.59
1	AA	892	A	P-O5'	7.63	1.67	1.59
26	BB	983	A	C8-N7	-7.63	1.26	1.31
1	AA	1288	A	O3'-P	7.62	1.70	1.61
26	BB	1133	A	C2-N3	7.62	1.40	1.33
26	BB	738	G	C5'-C4'	7.62	1.60	1.51
26	BB	1738	G	C6-N1	7.62	1.44	1.39
26	BB	2640	G	C2-N3	7.62	1.38	1.32
1	AA	47	C	C4-C5	7.62	1.49	1.43
26	BB	428	A	C6-N1	7.62	1.40	1.35
26	BB	1891	G	C2'-C1'	7.62	1.61	1.53
26	BB	898	C	C5'-C4'	7.62	1.60	1.51
26	BB	2820	A	C5'-C4'	7.62	1.60	1.51
26	BB	2470	G	P-O5'	7.62	1.67	1.59
26	BB	2780	G	C8-N7	-7.62	1.26	1.30
26	BB	1927	A	O3'-P	7.61	1.70	1.61
25	BA	118	C	C2-N3	7.61	1.41	1.35
26	BB	781	A	N3-C4	7.61	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1935	G	C6-N1	7.61	1.44	1.39
26	BB	1970	A	N7-C5	7.61	1.43	1.39
26	BB	678	C	O3'-P	7.61	1.70	1.61
1	AA	621	A	C5-C6	7.60	1.47	1.41
26	BB	2556	C	C5'-C4'	7.60	1.60	1.51
26	BB	2696	U	C5-C6	7.60	1.41	1.34
26	BB	206	U	C3'-O3'	-7.60	1.31	1.42
26	BB	1438	U	C5-C6	7.60	1.41	1.34
26	BB	2389	G	N1-C2	7.60	1.43	1.37
1	AA	508	U	O3'-P	-7.60	1.52	1.61
1	AA	1180	A	N9-C4	-7.60	1.33	1.37
26	BB	141	G	P-O5'	7.60	1.67	1.59
26	BB	1124	G	O3'-P	7.60	1.70	1.61
1	AA	1433	A	N9-C4	7.60	1.42	1.37
26	BB	1463	C	C4-C5	7.60	1.49	1.43
1	AA	1352	C	N1-C2	7.60	1.47	1.40
26	BB	2395	C	P-O5'	7.60	1.67	1.59
26	BB	2595	G	C5'-C4'	7.60	1.60	1.51
1	AA	1126	U	C4-C5	7.59	1.50	1.43
1	AA	469	C	C5'-C4'	7.59	1.60	1.51
26	BB	223	A	N7-C5	7.59	1.43	1.39
26	BB	336	C	C2-N3	7.59	1.41	1.35
25	BA	115	A	C2'-C1'	7.59	1.61	1.53
26	BB	765	C	P-O5'	7.59	1.67	1.59
26	BB	786	C	C4-C5	7.59	1.49	1.43
26	BB	1779	U	C5-C6	7.59	1.41	1.34
26	BB	2653	U	N3-C4	7.59	1.45	1.38
26	BB	2671	G	C2-N3	7.59	1.38	1.32
1	AA	370	C	N3-C4	-7.59	1.28	1.33
26	BB	307	G	C8-N7	-7.59	1.26	1.30
26	BB	566	U	C4'-O4'	-7.59	1.35	1.45
26	BB	2893	A	C8-N7	-7.59	1.26	1.31
26	BB	348	A	N9-C4	-7.59	1.33	1.37
26	BB	2262	U	P-O5'	7.59	1.67	1.59
26	BB	1459	G	N9-C8	-7.58	1.32	1.37
26	BB	77	G	C8-N7	-7.58	1.26	1.30
26	BB	473	G	C2'-C1'	-7.58	1.45	1.53
26	BB	2374	C	P-O5'	7.58	1.67	1.59
26	BB	2508	G	P-O5'	7.58	1.67	1.59
26	BB	2630	G	C2-N3	7.58	1.38	1.32
1	AA	637	C	N1-C6	7.58	1.41	1.37
4	AD	46	G	C2-N3	7.58	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	518	G	C5-C4	-7.58	1.33	1.38
1	AA	878	A	N3-C4	7.58	1.39	1.34
26	BB	1679	A	N9-C4	7.58	1.42	1.37
26	BB	1989	G	C2-N3	7.58	1.38	1.32
1	AA	337	G	C4'-C3'	-7.57	1.44	1.53
1	AA	526	C	P-O5'	7.57	1.67	1.59
26	BB	166	U	P-O5'	7.57	1.67	1.59
26	BB	1811	G	C2-N3	7.57	1.38	1.32
26	BB	86	G	C6-N1	7.57	1.44	1.39
26	BB	788	A	N9-C4	-7.57	1.33	1.37
4	AD	58	A	C5-C4	-7.57	1.33	1.38
26	BB	334	C	C3'-C2'	-7.57	1.44	1.52
26	BB	910	A	N3-C4	7.57	1.39	1.34
26	BB	232	G	N7-C5	-7.57	1.34	1.39
1	AA	807	A	C8-N7	7.57	1.36	1.31
1	AA	1392	G	N9-C8	7.57	1.43	1.37
26	BB	589	U	C2-N3	-7.57	1.32	1.37
26	BB	2429	G	N9-C4	-7.57	1.31	1.38
26	BB	2586	U	C4-O4	-7.57	1.17	1.23
1	AA	242	G	O3'-P	-7.57	1.52	1.61
1	AA	523	A	N9-C4	-7.57	1.33	1.37
1	AA	773	G	P-O5'	7.57	1.67	1.59
26	BB	205	G	C3'-C2'	7.56	1.61	1.52
1	AA	19	A	O3'-P	7.56	1.70	1.61
1	AA	71	A	C6-N1	7.56	1.40	1.35
1	AA	1238	A	N7-C5	-7.56	1.34	1.39
26	BB	2825	G	P-O5'	7.56	1.67	1.59
1	AA	297	G	N9-C8	-7.56	1.32	1.37
26	BB	243	U	P-O5'	7.56	1.67	1.59
26	BB	323	C	N1-C6	7.56	1.41	1.37
26	BB	1227	G	P-O5'	7.56	1.67	1.59
26	BB	1692	U	C4-C5	7.56	1.50	1.43
26	BB	2636	C	O3'-P	7.56	1.70	1.61
26	BB	625	G	N7-C5	7.56	1.43	1.39
26	BB	2536	G	N3-C4	7.56	1.40	1.35
25	BA	23	G	O3'-P	7.56	1.70	1.61
26	BB	2372	U	C2-N3	7.56	1.43	1.37
1	AA	191	G	C2-N3	7.55	1.38	1.32
1	AA	1151	A	N3-C4	7.55	1.39	1.34
1	AA	1307	U	N1-C2	7.55	1.45	1.38
26	BB	1047	G	P-O5'	7.55	1.67	1.59
26	BB	1634	A	N9-C4	7.55	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	33	U	C3'-C2'	7.55	1.61	1.52
1	AA	1102	A	N9-C4	7.55	1.42	1.37
26	BB	539	G	P-O5'	7.55	1.67	1.59
26	BB	578	G	C5-C4	-7.55	1.33	1.38
26	BB	1570	A	N9-C4	-7.55	1.33	1.37
1	AA	219	U	C2-O2	7.55	1.29	1.22
26	BB	585	G	O4'-C1'	7.55	1.51	1.41
1	AA	239	U	C4-C5	7.55	1.50	1.43
26	BB	1364	G	N7-C5	7.55	1.43	1.39
26	BB	2118	U	C5'-C4'	7.55	1.60	1.51
1	AA	229	U	O3'-P	7.54	1.70	1.61
26	BB	1126	A	C6-N6	-7.54	1.27	1.33
1	AA	345	C	P-O5'	7.54	1.67	1.59
3	AC	13	A	C3'-C2'	7.54	1.61	1.52
26	BB	70	G	O4'-C1'	7.54	1.51	1.41
26	BB	1477	A	N9-C8	7.54	1.43	1.37
26	BB	2045	C	C4-C5	7.54	1.49	1.43
26	BB	2407	A	N3-C4	7.54	1.39	1.34
26	BB	1327	A	C6-N1	7.54	1.40	1.35
26	BB	725	G	C2'-O2'	7.54	1.51	1.41
26	BB	1519	G	C2-N3	7.54	1.38	1.32
2	AB	18	G	C4'-O4'	-7.54	1.35	1.45
26	BB	80	G	P-O5'	7.54	1.67	1.59
26	BB	1912	A	P-O5'	7.54	1.67	1.59
1	AA	353	A	P-O5'	7.54	1.67	1.59
1	AA	1169	A	P-O5'	7.54	1.67	1.59
26	BB	1802	A	N9-C4	7.54	1.42	1.37
26	BB	1987	A	N9-C8	7.54	1.43	1.37
26	BB	2309	A	N3-C4	7.54	1.39	1.34
26	BB	2440	C	C2-N3	7.54	1.41	1.35
1	AA	1321	U	O4'-C1'	7.53	1.51	1.41
26	BB	1132	U	C5-C6	7.53	1.41	1.34
26	BB	1266	G	C5'-C4'	7.53	1.60	1.51
26	BB	2038	G	C6-N1	-7.53	1.34	1.39
1	AA	264	C	N1-C6	7.53	1.41	1.37
1	AA	1103	C	C4-C5	7.53	1.49	1.43
1	AA	1391	U	C5'-C4'	7.53	1.60	1.51
26	BB	2634	A	C8-N7	-7.53	1.26	1.31
26	BB	1784	A	P-O5'	7.53	1.67	1.59
1	AA	1493	A	N3-C4	7.53	1.39	1.34
4	AD	15	G	N7-C5	-7.53	1.34	1.39
26	BB	694	U	C4'-C3'	7.53	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1919	A	N1-C2	-7.53	1.27	1.34
26	BB	2413	G	C3'-O3'	7.53	1.52	1.42
3	AC	57	C	C2-N3	7.53	1.41	1.35
25	BA	12	C	C5'-C4'	7.53	1.60	1.51
26	BB	164	C	C2-N3	7.53	1.41	1.35
26	BB	509	C	C5'-C4'	7.53	1.60	1.51
26	BB	2264	C	C4-C5	-7.53	1.36	1.43
1	AA	988	G	C6-N1	7.52	1.44	1.39
26	BB	911	A	N7-C5	-7.52	1.34	1.39
1	AA	288	A	C8-N7	-7.52	1.26	1.31
26	BB	1301	A	C6-N1	7.52	1.40	1.35
26	BB	1431	A	N9-C4	7.52	1.42	1.37
26	BB	1556	C	C5'-C4'	7.52	1.60	1.51
26	BB	1557	C	N3-C4	7.52	1.39	1.33
26	BB	1770	G	C3'-C2'	-7.52	1.44	1.52
25	BA	7	G	C2-N3	7.52	1.38	1.32
26	BB	121	G	P-O5'	7.52	1.67	1.59
26	BB	1542	U	N3-C4	7.52	1.45	1.38
26	BB	1824	G	C6-N1	-7.52	1.34	1.39
26	BB	2695	U	C2-N3	7.52	1.43	1.37
26	BB	2767	C	C3'-C2'	7.52	1.61	1.52
26	BB	706	A	N9-C4	7.51	1.42	1.37
26	BB	727	A	C5'-C4'	7.51	1.60	1.51
1	AA	1188	A	N3-C4	7.51	1.39	1.34
2	AB	76	A	N9-C4	-7.51	1.33	1.37
26	BB	30	G	N1-C2	7.51	1.43	1.37
1	AA	1215	G	C3'-C2'	7.51	1.61	1.52
26	BB	2223	G	N1-C2	7.51	1.43	1.37
1	AA	62	U	N1-C2	7.51	1.45	1.38
1	AA	282	A	O3'-P	7.51	1.70	1.61
1	AA	1005	A	N3-C4	-7.51	1.30	1.34
2	AB	5	G	N1-C2	7.51	1.43	1.37
26	BB	884	U	C2'-C1'	7.51	1.61	1.53
26	BB	1663	G	N7-C5	-7.51	1.34	1.39
26	BB	2015	A	C2'-C1'	-7.51	1.45	1.53
26	BB	2477	U	P-O5'	-7.51	1.52	1.59
26	BB	2490	G	N3-C4	7.51	1.40	1.35
1	AA	702	A	C5-C4	-7.51	1.33	1.38
26	BB	1719	G	P-O5'	7.51	1.67	1.59
26	BB	2048	G	C2-N3	7.51	1.38	1.32
26	BB	943	A	C8-N7	-7.51	1.26	1.31
26	BB	293	U	P-O5'	7.50	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	514	A	C6-N6	7.50	1.40	1.33
26	BB	1239	G	C8-N7	-7.50	1.26	1.30
26	BB	734	A	N9-C8	7.50	1.43	1.37
26	BB	1555	G	N7-C5	7.50	1.43	1.39
26	BB	1685	C	P-O5'	7.50	1.67	1.59
1	AA	360	G	N3-C4	7.50	1.40	1.35
1	AA	637	C	O3'-P	7.50	1.70	1.61
26	BB	645	C	N3-C4	7.50	1.39	1.33
26	BB	1515	A	N3-C4	7.50	1.39	1.34
26	BB	2752	C	N1-C2	7.50	1.47	1.40
2	AB	44	G	P-O5'	7.50	1.67	1.59
25	BA	62	C	P-O5'	7.50	1.67	1.59
26	BB	1519	G	N9-C4	-7.50	1.31	1.38
1	AA	1043	G	P-O5'	-7.50	1.52	1.59
1	AA	1097	C	C2-N3	7.50	1.41	1.35
1	AA	690	G	C2-N3	7.49	1.38	1.32
1	AA	882	C	C2-N3	7.49	1.41	1.35
1	AA	1454	G	N9-C8	7.49	1.43	1.37
26	BB	691	C	C3'-C2'	7.49	1.61	1.52
26	BB	1324	G	C3'-C2'	7.49	1.61	1.52
26	BB	1753	G	C5-C4	-7.49	1.33	1.38
1	AA	699	C	C2-N3	7.49	1.41	1.35
1	AA	1186	G	C5'-C4'	7.49	1.60	1.51
25	BA	45	A	O3'-P	7.49	1.70	1.61
26	BB	430	A	N7-C5	7.49	1.43	1.39
26	BB	2576	G	C5'-C4'	7.49	1.60	1.51
26	BB	2832	U	P-O5'	-7.49	1.52	1.59
1	AA	63	C	P-O5'	7.49	1.67	1.59
26	BB	1125	G	C5-C6	7.49	1.49	1.42
26	BB	2578	G	N9-C4	7.49	1.44	1.38
26	BB	2621	G	C2-N3	7.49	1.38	1.32
26	BB	188	G	N9-C8	-7.49	1.32	1.37
1	AA	1465	A	C5-C4	7.48	1.44	1.38
1	AA	124	C	N1-C6	7.48	1.41	1.37
1	AA	1077	G	C6-N1	7.48	1.44	1.39
1	AA	1141	C	C4'-O4'	-7.48	1.35	1.45
26	BB	25	U	P-O5'	7.48	1.67	1.59
26	BB	2890	G	P-O5'	7.48	1.67	1.59
1	AA	951	G	P-O5'	7.48	1.67	1.59
2	AB	62	U	C2'-C1'	7.48	1.61	1.53
26	BB	2201	G	P-O5'	7.48	1.67	1.59
26	BB	2586	U	N1-C2	7.48	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1315	U	O3'-P	-7.48	1.52	1.61
26	BB	136	G	N7-C5	7.48	1.43	1.39
26	BB	509	C	C2-N3	7.48	1.41	1.35
26	BB	1743	G	N7-C5	-7.48	1.34	1.39
26	BB	2085	U	O3'-P	7.48	1.70	1.61
26	BB	259	G	N3-C4	7.48	1.40	1.35
26	BB	604	G	C2-N3	7.48	1.38	1.32
26	BB	202	U	C4'-O4'	-7.47	1.35	1.45
26	BB	2742	G	C2-N3	7.47	1.38	1.32
1	AA	510	A	C8-N7	-7.47	1.26	1.31
1	AA	683	G	C8-N7	7.47	1.35	1.30
1	AA	1208	C	P-O5'	7.47	1.67	1.59
4	AD	4	G	N7-C5	7.47	1.43	1.39
26	BB	235	U	N1-C6	7.47	1.44	1.38
26	BB	911	A	C6-N1	7.47	1.40	1.35
26	BB	1276	A	N3-C4	7.47	1.39	1.34
26	BB	19	A	C8-N7	-7.47	1.26	1.31
3	AC	20	G	N7-C5	-7.47	1.34	1.39
26	BB	88	G	N3-C4	7.47	1.40	1.35
26	BB	610	C	N3-C4	7.47	1.39	1.33
26	BB	1664	A	N7-C5	-7.47	1.34	1.39
26	BB	2521	C	N1-C6	7.47	1.41	1.37
1	AA	482	A	P-O5'	7.46	1.67	1.59
26	BB	171	U	O3'-P	7.46	1.70	1.61
26	BB	856	G	N9-C8	7.46	1.43	1.37
26	BB	1605	C	C5-C6	7.46	1.40	1.34
26	BB	2849	U	P-O5'	7.46	1.67	1.59
1	AA	80	A	C3'-C2'	7.46	1.61	1.52
26	BB	507	A	P-O5'	7.46	1.67	1.59
26	BB	1019	U	C2'-C1'	7.46	1.61	1.53
26	BB	1019	U	C4-C5	7.46	1.50	1.43
26	BB	1392	A	N7-C5	-7.46	1.34	1.39
26	BB	1891	G	C4'-C3'	-7.46	1.45	1.53
26	BB	2170	A	N9-C8	7.46	1.43	1.37
26	BB	2599	G	C6-N1	7.46	1.44	1.39
3	AC	19	A	N3-C4	7.46	1.39	1.34
25	BA	41	G	N1-C2	7.46	1.43	1.37
1	AA	391	G	C5'-C4'	7.46	1.60	1.51
1	AA	1318	A	P-O5'	7.46	1.67	1.59
26	BB	461	C	C5'-C4'	7.46	1.60	1.51
26	BB	317	G	P-O5'	7.45	1.67	1.59
26	BB	605	G	C5'-C4'	7.45	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2138	G	P-O5'	7.45	1.67	1.59
26	BB	2635	A	P-O5'	7.45	1.67	1.59
26	BB	2772	C	C2-N3	7.45	1.41	1.35
1	AA	886	G	C2-N3	7.45	1.38	1.32
26	BB	1422	G	C6-N1	-7.45	1.34	1.39
26	BB	2461	A	O4'-C1'	7.45	1.51	1.41
2	AB	18	G	P-O5'	7.45	1.67	1.59
3	AC	20	G	P-O5'	7.45	1.67	1.59
26	BB	1401	G	N3-C4	7.45	1.40	1.35
26	BB	2405	G	P-O5'	7.45	1.67	1.59
26	BB	2540	C	C5-C6	7.45	1.40	1.34
2	AB	53	G	C4'-O4'	-7.45	1.35	1.45
26	BB	1105	U	C2'-O2'	7.45	1.51	1.41
26	BB	2114	A	C5'-C4'	7.45	1.60	1.51
26	BB	2505	G	C5'-C4'	7.45	1.60	1.51
1	AA	1454	G	C6-N1	7.45	1.44	1.39
26	BB	592	A	C8-N7	7.45	1.36	1.31
26	BB	764	A	C8-N7	-7.45	1.26	1.31
26	BB	940	G	N1-C2	-7.44	1.31	1.37
1	AA	313	A	C6-N1	-7.44	1.30	1.35
1	AA	1275	A	N9-C4	7.44	1.42	1.37
1	AA	1420	U	P-O5'	7.44	1.67	1.59
26	BB	1777	U	C5'-C4'	7.44	1.60	1.51
26	BB	996	A	C6-N6	7.44	1.40	1.33
26	BB	1923	U	C4-C5	7.44	1.50	1.43
26	BB	2352	A	C4'-O4'	-7.44	1.35	1.45
1	AA	1155	A	N1-C2	-7.44	1.27	1.34
26	BB	1862	G	C4'-C3'	-7.44	1.45	1.53
26	BB	1147	A	C4'-O4'	-7.43	1.35	1.45
26	BB	1875	G	N1-C2	7.43	1.43	1.37
26	BB	2181	U	C5'-C4'	7.43	1.60	1.51
26	BB	2213	U	C2-N3	7.43	1.43	1.37
1	AA	371	A	C8-N7	7.43	1.36	1.31
1	AA	522	C	C4-C5	7.43	1.48	1.43
1	AA	1315	U	C5'-C4'	7.43	1.60	1.51
26	BB	2	G	C2-N3	7.43	1.38	1.32
1	AA	916	U	C5-C6	7.43	1.40	1.34
26	BB	339	U	C4'-C3'	-7.43	1.45	1.53
26	BB	1075	C	P-O5'	7.43	1.67	1.59
26	BB	2223	G	C6-N1	7.43	1.44	1.39
26	BB	643	A	N9-C4	7.43	1.42	1.37
26	BB	1868	C	N1-C6	7.43	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1899	A	N7-C5	-7.43	1.34	1.39
1	AA	541	G	N1-C2	7.43	1.43	1.37
1	AA	361	G	N9-C4	7.43	1.43	1.38
1	AA	642	A	C8-N7	-7.43	1.26	1.31
26	BB	1296	G	N3-C4	7.43	1.40	1.35
26	BB	1609	A	C8-N7	-7.43	1.26	1.31
4	AD	47	A	N9-C4	7.42	1.42	1.37
26	BB	1815	A	P-O5'	7.42	1.67	1.59
1	AA	83	C	P-O5'	7.42	1.67	1.59
26	BB	1462	C	C4-N4	7.42	1.40	1.33
1	AA	413	G	P-O5'	7.42	1.67	1.59
1	AA	1071	C	C4'-O4'	-7.42	1.35	1.45
26	BB	276	U	P-O5'	7.42	1.67	1.59
26	BB	2172	U	C4-C5	7.42	1.50	1.43
26	BB	2886	A	C4'-O4'	-7.42	1.35	1.45
1	AA	1306	A	N3-C4	7.42	1.39	1.34
1	AA	1409	C	N3-C4	-7.42	1.28	1.33
26	BB	494	G	C2-N3	7.42	1.38	1.32
26	BB	2868	A	N3-C4	7.42	1.39	1.34
2	AB	18	G	C6-N1	7.42	1.44	1.39
26	BB	126	A	N9-C8	7.42	1.43	1.37
1	AA	348	G	C2-N3	7.42	1.38	1.32
4	AD	4	G	C2'-C1'	7.42	1.61	1.53
15	AO	65	TYR	CG-CD2	7.42	1.48	1.39
26	BB	2877	G	N1-C2	7.42	1.43	1.37
1	AA	146	G	C5-C6	7.41	1.49	1.42
1	AA	1318	A	N9-C8	7.41	1.43	1.37
26	BB	341	C	C2'-C1'	7.41	1.61	1.53
26	BB	875	G	N9-C8	-7.41	1.32	1.37
1	AA	1015	G	P-O5'	7.41	1.67	1.59
4	AD	23	G	N3-C4	7.41	1.40	1.35
26	BB	1029	A	N1-C2	-7.41	1.27	1.34
1	AA	520	A	N9-C8	-7.41	1.31	1.37
1	AA	798	U	N1-C2	7.41	1.45	1.38
1	AA	1537	U	N3-C4	7.41	1.45	1.38
25	BA	10	G	C5'-C4'	7.41	1.60	1.51
26	BB	1436	G	C2'-C1'	7.41	1.61	1.53
1	AA	65	A	C8-N7	-7.41	1.26	1.31
26	BB	2152	G	N3-C4	7.41	1.40	1.35
1	AA	615	G	N3-C4	7.41	1.40	1.35
1	AA	1437	A	N3-C4	7.41	1.39	1.34
26	BB	186	G	C2'-O2'	7.41	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	649	G	C5-C6	7.41	1.49	1.42
26	BB	2416	C	C3'-O3'	7.41	1.52	1.42
1	AA	250	A	P-O5'	7.40	1.67	1.59
26	BB	273	G	C2-N3	7.40	1.38	1.32
26	BB	1359	A	N3-C4	7.40	1.39	1.34
1	AA	453	G	C3'-C2'	7.40	1.61	1.52
5	AE	21	TYR	CE1-CZ	7.40	1.48	1.38
26	BB	87	U	P-O5'	7.40	1.67	1.59
26	BB	1310	G	P-O5'	7.40	1.67	1.59
4	AD	14	A	C6-N1	-7.40	1.30	1.35
26	BB	896	A	N9-C8	7.40	1.43	1.37
1	AA	213	G	C6-N1	7.40	1.44	1.39
3	AC	25	U	C2-N3	7.40	1.43	1.37
4	AD	14	A	O3'-P	-7.40	1.52	1.61
26	BB	238	C	N1-C6	7.40	1.41	1.37
26	BB	697	G	N7-C5	-7.40	1.34	1.39
1	AA	182	A	N9-C4	-7.40	1.33	1.37
1	AA	795	C	N3-C4	7.40	1.39	1.33
1	AA	908	A	C6-N6	7.40	1.39	1.33
26	BB	465	G	C2-N3	7.40	1.38	1.32
1	AA	201	G	C3'-C2'	7.39	1.61	1.52
26	BB	434	U	P-O5'	7.39	1.67	1.59
26	BB	701	G	C6-N1	7.39	1.44	1.39
1	AA	7	A	O3'-P	7.39	1.70	1.61
1	AA	1215	G	C6-N1	7.39	1.44	1.39
1	AA	1241	G	C5'-C4'	7.39	1.60	1.51
26	BB	1230	A	N7-C5	7.39	1.43	1.39
26	BB	2803	G	P-O5'	7.39	1.67	1.59
1	AA	980	C	N1-C6	7.39	1.41	1.37
26	BB	1489	C	O3'-P	7.39	1.70	1.61
26	BB	2768	U	N3-C4	-7.39	1.31	1.38
26	BB	2775	G	C5-C4	7.39	1.43	1.38
1	AA	1173	U	P-O5'	7.39	1.67	1.59
26	BB	427	U	N1-C2	7.39	1.45	1.38
26	BB	2450	A	P-O5'	7.39	1.67	1.59
26	BB	2618	G	N1-C2	7.39	1.43	1.37
26	BB	2246	G	C6-N1	7.39	1.44	1.39
1	AA	1514	G	N7-C5	7.39	1.43	1.39
3	AC	18	A	N3-C4	7.39	1.39	1.34
26	BB	118	A	N1-C2	-7.39	1.27	1.34
26	BB	232	G	C2-N3	7.39	1.38	1.32
26	BB	435	C	N1-C6	-7.39	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	984	A	N9-C4	7.39	1.42	1.37
1	AA	1119	C	P-O5'	7.38	1.67	1.59
1	AA	1310	G	P-O5'	7.38	1.67	1.59
1	AA	815	A	P-O5'	7.38	1.67	1.59
1	AA	1181	G	N7-C5	-7.38	1.34	1.39
25	BA	68	C	C2-O2	-7.38	1.17	1.24
26	BB	2278	A	N9-C4	7.38	1.42	1.37
26	BB	2668	G	C2-N3	7.38	1.38	1.32
1	AA	954	G	C2-N3	7.38	1.38	1.32
1	AA	1113	C	P-O5'	7.38	1.67	1.59
3	AC	15	G	C8-N7	-7.38	1.26	1.30
26	BB	909	A	C5-C4	-7.38	1.33	1.38
26	BB	2156	G	N3-C4	-7.38	1.30	1.35
1	AA	520	A	C5-C4	-7.38	1.33	1.38
1	AA	885	G	N9-C8	7.38	1.43	1.37
1	AA	1530	G	P-O5'	7.38	1.67	1.59
26	BB	6	A	C8-N7	-7.38	1.26	1.31
26	BB	2614	A	N3-C4	7.38	1.39	1.34
1	AA	258	G	P-O5'	7.38	1.67	1.59
1	AA	587	G	C5'-C4'	7.38	1.60	1.51
1	AA	1074	G	P-O5'	7.38	1.67	1.59
2	AB	71	C	C2'-C1'	7.38	1.61	1.53
26	BB	297	G	N9-C8	-7.38	1.32	1.37
26	BB	624	C	C4-C5	7.38	1.48	1.43
26	BB	738	G	C6-O6	-7.38	1.17	1.24
26	BB	1846	G	O3'-P	-7.38	1.52	1.61
26	BB	2768	U	C2-N3	7.38	1.43	1.37
26	BB	2168	G	P-O5'	7.38	1.67	1.59
1	AA	100	G	C6-O6	-7.37	1.17	1.24
1	AA	989	U	N1-C2	7.37	1.45	1.38
1	AA	1320	C	O3'-P	7.37	1.70	1.61
1	AA	1495	U	N1-C6	7.37	1.44	1.38
1	AA	1528	U	C5'-C4'	7.37	1.60	1.51
4	AD	17	C	C4'-O4'	-7.37	1.35	1.45
26	BB	963	U	C4-C5	7.37	1.50	1.43
26	BB	1991	U	C4-C5	7.37	1.50	1.43
25	BA	30	C	N3-C4	7.37	1.39	1.33
26	BB	777	G	N9-C8	-7.37	1.32	1.37
26	BB	2041	U	C2-N3	7.37	1.43	1.37
26	BB	1809	A	N3-C4	-7.37	1.30	1.34
26	BB	1988	G	P-O5'	7.37	1.67	1.59
1	AA	952	U	N1-C2	7.37	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	416	U	C2-O2	7.37	1.28	1.22
26	BB	1674	G	C2-N3	7.37	1.38	1.32
26	BB	1932	A	C5-C4	-7.37	1.33	1.38
26	BB	2613	U	O3'-P	7.37	1.70	1.61
1	AA	1455	G	N9-C8	-7.37	1.32	1.37
26	BB	128	C	P-O5'	7.37	1.67	1.59
26	BB	526	A	O5'-C5'	-7.37	1.31	1.42
26	BB	1755	A	C4'-C3'	7.37	1.61	1.53
1	AA	648	A	P-O5'	7.36	1.67	1.59
1	AA	1323	G	C4'-O4'	-7.36	1.35	1.45
1	AA	1480	A	N3-C4	7.36	1.39	1.34
26	BB	1698	A	C6-N1	7.36	1.40	1.35
1	AA	554	A	N7-C5	-7.36	1.34	1.39
1	AA	578	C	N1-C6	7.36	1.41	1.37
26	BB	97	C	O4'-C1'	7.36	1.51	1.41
1	AA	389	A	O3'-P	7.36	1.70	1.61
26	BB	549	G	C5'-C4'	7.36	1.60	1.51
26	BB	2073	C	N1-C6	7.36	1.41	1.37
1	AA	1157	A	N9-C4	-7.36	1.33	1.37
1	AA	1251	A	N3-C4	7.36	1.39	1.34
26	BB	422	A	N3-C4	-7.36	1.30	1.34
26	BB	459	U	P-O5'	7.36	1.67	1.59
26	BB	1442	U	C2-N3	7.36	1.42	1.37
1	AA	634	C	N1-C2	7.36	1.47	1.40
26	BB	31	C	C2-N3	7.36	1.41	1.35
26	BB	700	G	P-O5'	7.36	1.67	1.59
26	BB	1616	A	N3-C4	7.36	1.39	1.34
1	AA	1101	A	N3-C4	7.35	1.39	1.34
26	BB	1649	G	N1-C2	7.35	1.43	1.37
26	BB	2158	A	N7-C5	-7.35	1.34	1.39
1	AA	598	U	N3-C4	7.35	1.45	1.38
1	AA	1242	G	C4'-C3'	7.35	1.61	1.53
26	BB	2782	G	C2-N3	7.35	1.38	1.32
1	AA	1223	C	C4-C5	7.35	1.48	1.43
1	AA	67	C	C4'-O4'	-7.35	1.35	1.45
26	BB	1736	U	C5-C6	7.35	1.40	1.34
1	AA	131	A	N3-C4	7.35	1.39	1.34
1	AA	555	U	C4-O4	7.35	1.29	1.23
1	AA	1523	G	C5-C4	-7.35	1.33	1.38
26	BB	1535	A	C6-N1	7.35	1.40	1.35
26	BB	2762	C	C4-C5	7.35	1.48	1.43
1	AA	1299	A	P-O5'	7.34	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1328	C	N3-C4	7.34	1.39	1.33
26	BB	249	C	P-O5'	7.34	1.67	1.59
26	BB	2142	A	N7-C5	-7.34	1.34	1.39
26	BB	2724	U	C2-N3	7.34	1.42	1.37
1	AA	140	U	N1-C2	7.34	1.45	1.38
26	BB	758	C	C4-C5	7.34	1.48	1.43
26	BB	2242	G	N1-C2	7.34	1.43	1.37
1	AA	864	A	O3'-P	7.34	1.70	1.61
25	BA	59	A	C4'-O4'	-7.34	1.36	1.45
26	BB	1866	A	O4'-C1'	7.34	1.51	1.41
26	BB	2811	G	C6-O6	-7.34	1.17	1.24
1	AA	228	A	C4'-O4'	-7.34	1.36	1.45
1	AA	930	C	P-O5'	7.34	1.67	1.59
1	AA	956	U	C2-N3	7.34	1.42	1.37
26	BB	1921	G	C4'-O4'	-7.34	1.36	1.45
1	AA	920	U	C3'-C2'	7.34	1.61	1.52
26	BB	905	A	C4'-O4'	-7.34	1.36	1.45
2	AB	50	G	C2'-O2'	7.33	1.51	1.41
1	AA	566	G	N7-C5	7.33	1.43	1.39
26	BB	326	G	C5'-C4'	7.33	1.60	1.51
26	BB	1071	G	N1-C2	7.33	1.43	1.37
26	BB	2000	C	C2-N3	7.33	1.41	1.35
3	AC	35	G	C5'-C4'	7.33	1.60	1.51
25	BA	6	G	N1-C2	7.33	1.43	1.37
1	AA	456	A	N3-C4	7.33	1.39	1.34
1	AA	908	A	C5'-C4'	7.33	1.60	1.51
1	AA	1341	U	C4-C5	7.33	1.50	1.43
26	BB	1369	G	C3'-O3'	-7.33	1.31	1.42
26	BB	1918	A	N9-C4	7.33	1.42	1.37
26	BB	1987	A	N3-C4	7.33	1.39	1.34
4	AD	54	G	N1-C2	7.33	1.43	1.37
26	BB	93	G	C2-N3	7.33	1.38	1.32
1	AA	72	A	N7-C5	7.32	1.43	1.39
1	AA	194	C	N1-C6	7.32	1.41	1.37
26	BB	1358	G	N9-C4	7.32	1.43	1.38
25	BA	49	C	C2'-C1'	7.32	1.61	1.53
1	AA	1214	C	C2-N3	-7.32	1.29	1.35
26	BB	2739	U	N1-C2	7.32	1.45	1.38
4	AD	30	G	C5'-C4'	7.32	1.60	1.51
1	AA	374	A	N1-C2	-7.32	1.27	1.34
1	AA	1021	A	N9-C4	-7.32	1.33	1.37
3	AC	56	G	C6-N1	-7.32	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	40	C	N1-C2	-7.32	1.32	1.40
25	BA	8	C	C2'-C1'	7.32	1.61	1.53
26	BB	1322	A	N9-C8	7.32	1.43	1.37
4	AD	31	G	C2-N3	7.32	1.38	1.32
26	BB	1278	C	N1-C2	7.32	1.47	1.40
26	BB	1641	A	N3-C4	7.32	1.39	1.34
26	BB	1856	U	C3'-C2'	7.32	1.60	1.52
26	BB	2766	A	O3'-P	-7.32	1.52	1.61
25	BA	99	A	C4'-O4'	-7.31	1.36	1.45
26	BB	495	G	C5'-C4'	7.31	1.60	1.51
26	BB	1064	C	C5-C6	7.31	1.40	1.34
26	BB	1645	G	N1-C2	7.31	1.43	1.37
26	BB	2290	G	C2-N3	7.31	1.38	1.32
1	AA	478	A	N7-C5	7.31	1.43	1.39
1	AA	840	C	O3'-P	7.31	1.70	1.61
1	AA	1355	G	P-O5'	7.31	1.67	1.59
1	AA	546	A	C5'-C4'	7.31	1.60	1.51
1	AA	1099	G	N9-C8	7.31	1.43	1.37
26	BB	2062	A	N7-C5	7.31	1.43	1.39
26	BB	268	C	N3-C4	7.31	1.39	1.33
26	BB	1844	C	C5-C6	7.31	1.40	1.34
1	AA	532	A	C3'-C2'	7.31	1.60	1.52
26	BB	98	G	C6-N1	7.31	1.44	1.39
26	BB	227	A	C5'-C4'	7.31	1.60	1.51
1	AA	627	G	C2-N3	7.31	1.38	1.32
1	AA	1535	C	C3'-C2'	-7.31	1.44	1.52
26	BB	474	G	N9-C4	7.31	1.43	1.38
26	BB	1526	C	C4-C5	7.30	1.48	1.43
26	BB	2210	U	P-O5'	-7.30	1.52	1.59
2	AB	72	U	N1-C6	7.30	1.44	1.38
26	BB	382	A	C6-N1	7.30	1.40	1.35
1	AA	1066	C	C4-N4	7.30	1.40	1.33
26	BB	1829	A	N7-C5	7.30	1.43	1.39
26	BB	2305	U	C2-N3	7.30	1.42	1.37
1	AA	296	U	C4'-O4'	-7.30	1.36	1.45
26	BB	89	A	N9-C8	7.30	1.43	1.37
1	AA	576	C	C4-C5	7.30	1.48	1.43
1	AA	802	A	N7-C5	7.30	1.43	1.39
26	BB	255	A	C5-C4	7.30	1.43	1.38
26	BB	716	A	C2-N3	7.30	1.40	1.33
26	BB	2589	A	P-O5'	7.30	1.67	1.59
1	AA	608	A	P-O5'	7.29	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1887	C	C5'-C4'	7.29	1.60	1.51
26	BB	2176	A	N3-C4	7.29	1.39	1.34
26	BB	2506	U	C4-C5	7.29	1.50	1.43
26	BB	313	G	N9-C4	-7.29	1.32	1.38
26	BB	727	A	N9-C8	7.29	1.43	1.37
26	BB	2178	C	C3'-C2'	7.29	1.60	1.52
26	BB	2211	A	N7-C5	7.29	1.43	1.39
26	BB	2261	C	C5-C6	7.29	1.40	1.34
26	BB	2304	G	C2'-C1'	7.29	1.61	1.53
26	BB	686	U	C2-N3	7.29	1.42	1.37
26	BB	1006	C	C2-N3	7.29	1.41	1.35
26	BB	1226	A	N3-C4	7.29	1.39	1.34
26	BB	2466	C	C5-C6	7.29	1.40	1.34
26	BB	2663	G	O3'-P	7.29	1.69	1.61
26	BB	2138	G	N1-C2	7.29	1.43	1.37
26	BB	110	G	C3'-C2'	7.29	1.60	1.52
26	BB	201	C	N3-C4	7.29	1.39	1.33
26	BB	308	G	N1-C2	7.29	1.43	1.37
26	BB	55	G	N7-C5	7.28	1.43	1.39
26	BB	723	C	N3-C4	7.28	1.39	1.33
26	BB	1934	C	P-O5'	7.28	1.67	1.59
26	BB	1993	U	C4-O4	-7.28	1.17	1.23
1	AA	984	C	C2-N3	7.28	1.41	1.35
26	BB	518	G	C5-C6	-7.28	1.35	1.42
1	AA	473	U	C4-O4	-7.28	1.17	1.23
26	BB	2868	A	N9-C4	7.28	1.42	1.37
1	AA	281	G	C3'-C2'	-7.28	1.44	1.52
1	AA	432	A	C2-N3	-7.28	1.27	1.33
26	BB	831	G	C4'-C3'	-7.28	1.45	1.53
26	BB	2156	G	C2-N3	7.28	1.38	1.32
2	AB	42	G	N7-C5	7.28	1.43	1.39
26	BB	1262	A	P-O5'	7.28	1.67	1.59
26	BB	1483	G	C5-C4	7.28	1.43	1.38
26	BB	2136	G	C2-N3	7.28	1.38	1.32
1	AA	300	A	C3'-O3'	7.27	1.52	1.42
26	BB	385	C	C4-N4	7.27	1.40	1.33
26	BB	936	A	P-O5'	-7.27	1.52	1.59
26	BB	1832	C	P-O5'	7.27	1.67	1.59
1	AA	645	G	C8-N7	7.27	1.35	1.30
1	AA	859	G	C8-N7	-7.27	1.26	1.30
26	BB	159	G	P-O5'	7.27	1.67	1.59
26	BB	462	C	P-O5'	7.27	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1896	G	O3'-P	7.27	1.69	1.61
26	BB	2293	G	C5'-C4'	7.27	1.60	1.51
1	AA	989	U	C4-C5	7.27	1.50	1.43
26	BB	406	G	C8-N7	-7.27	1.26	1.30
26	BB	1204	A	C6-N1	7.27	1.40	1.35
26	BB	2218	G	C2-N3	7.27	1.38	1.32
26	BB	2446	G	N7-C5	-7.27	1.34	1.39
26	BB	27	G	N9-C8	-7.27	1.32	1.37
26	BB	156	A	P-O5'	7.27	1.67	1.59
26	BB	1988	G	N9-C8	-7.27	1.32	1.37
26	BB	2367	G	C2-N3	7.27	1.38	1.32
1	AA	741	G	C4'-C3'	-7.27	1.45	1.53
1	AA	1099	G	C2-N2	7.27	1.41	1.34
1	AA	1373	G	C2-N3	7.27	1.38	1.32
1	AA	33	A	N7-C5	7.26	1.43	1.39
1	AA	296	U	P-O5'	7.26	1.67	1.59
1	AA	903	G	N9-C8	7.26	1.43	1.37
25	BA	86	G	N3-C4	7.26	1.40	1.35
26	BB	483	A	N9-C4	-7.26	1.33	1.37
26	BB	1546	G	N7-C5	-7.26	1.34	1.39
26	BB	2325	G	C4'-O4'	-7.26	1.36	1.45
26	BB	2428	G	C2-N3	7.26	1.38	1.32
1	AA	247	G	N3-C4	7.26	1.40	1.35
26	BB	49	A	P-O5'	7.26	1.67	1.59
26	BB	811	U	P-O5'	7.26	1.67	1.59
26	BB	1136	G	C8-N7	7.26	1.35	1.30
1	AA	1287	A	N7-C5	-7.26	1.34	1.39
2	AB	49	G	N3-C4	7.26	1.40	1.35
26	BB	2895	G	C5'-C4'	7.26	1.60	1.51
1	AA	1177	G	C2'-O2'	-7.26	1.32	1.41
26	BB	360	U	C4-C5	7.26	1.50	1.43
26	BB	983	A	N7-C5	-7.26	1.34	1.39
26	BB	1065	U	C3'-C2'	-7.26	1.44	1.52
26	BB	1988	G	C5-C4	-7.26	1.33	1.38
26	BB	2453	A	P-O5'	7.26	1.67	1.59
1	AA	936	C	C4-C5	7.25	1.48	1.43
1	AA	1304	G	C6-N1	-7.25	1.34	1.39
26	BB	737	C	C4-C5	7.25	1.48	1.43
26	BB	804	A	C5'-C4'	7.25	1.60	1.51
26	BB	1433	A	C8-N7	-7.25	1.26	1.31
26	BB	867	C	N1-C6	7.25	1.41	1.37
26	BB	1720	U	N1-C2	7.25	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	AC	55	A	N7-C5	7.25	1.43	1.39
4	AD	37	U	C4-C5	7.25	1.50	1.43
26	BB	85	G	C2-N3	7.25	1.38	1.32
26	BB	713	G	N3-C4	7.25	1.40	1.35
26	BB	855	G	C6-N1	-7.25	1.34	1.39
26	BB	1803	A	C4'-O4'	-7.25	1.36	1.45
25	BA	88	C	N1-C6	7.25	1.41	1.37
1	AA	224	U	P-O5'	7.25	1.67	1.59
26	BB	2761	A	C8-N7	7.25	1.36	1.31
1	AA	771	G	C2-N3	7.25	1.38	1.32
26	BB	2617	U	N1-C6	7.25	1.44	1.38
1	AA	678	U	C4-O4	7.25	1.29	1.23
1	AA	737	C	C2-N3	7.25	1.41	1.35
26	BB	1670	C	C5'-C4'	7.24	1.60	1.51
26	BB	2079	U	C5-C6	7.24	1.40	1.34
26	BB	2407	A	N9-C8	7.24	1.43	1.37
31	BG	61	GLY	CA-C	7.24	1.63	1.51
1	AA	635	A	P-O5'	7.24	1.67	1.59
26	BB	2471	A	N9-C4	-7.24	1.33	1.37
26	BB	2607	G	N1-C2	7.24	1.43	1.37
1	AA	304	U	N1-C6	7.24	1.44	1.38
1	AA	474	G	P-O5'	7.24	1.67	1.59
1	AA	1079	G	N3-C4	7.24	1.40	1.35
1	AA	1398	A	N9-C4	7.24	1.42	1.37
26	BB	326	G	C5-C4	7.24	1.43	1.38
26	BB	984	A	C5-C4	-7.24	1.33	1.38
26	BB	1613	G	N3-C4	7.24	1.40	1.35
26	BB	1936	A	N3-C4	7.24	1.39	1.34
26	BB	2278	A	N3-C4	7.24	1.39	1.34
43	BS	110	GLU	CG-CD	7.24	1.62	1.51
26	BB	2660	A	C4'-O4'	-7.24	1.36	1.45
1	AA	568	G	C6-N1	7.24	1.44	1.39
26	BB	187	G	N7-C5	-7.24	1.34	1.39
26	BB	218	A	N9-C4	7.24	1.42	1.37
26	BB	458	G	N1-C2	-7.24	1.31	1.37
26	BB	939	G	C5'-C4'	7.24	1.60	1.51
26	BB	2620	C	N1-C6	7.24	1.41	1.37
26	BB	2867	G	N1-C2	7.24	1.43	1.37
1	AA	144	G	C6-O6	-7.23	1.17	1.24
26	BB	1759	A	N9-C4	7.23	1.42	1.37
1	AA	1346	A	C4'-C3'	7.23	1.61	1.53
6	AF	192	TYR	CD2-CE2	7.23	1.50	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1546	G	N1-C2	7.23	1.43	1.37
26	BB	1446	C	N1-C6	7.23	1.41	1.37
26	BB	789	A	C5'-C4'	7.23	1.60	1.51
26	BB	1242	U	C5-C6	7.22	1.40	1.34
26	BB	328	U	C2-N3	7.22	1.42	1.37
26	BB	613	A	P-O5'	7.22	1.67	1.59
26	BB	1037	G	C3'-C2'	-7.22	1.44	1.52
26	BB	1192	G	C5-C6	7.22	1.49	1.42
26	BB	1305	C	C2-N3	7.22	1.41	1.35
26	BB	1728	C	P-O5'	7.22	1.67	1.59
1	AA	1441	A	C6-N1	7.22	1.40	1.35
26	BB	916	G	C6-N1	7.22	1.44	1.39
26	BB	2473	U	P-O5'	7.22	1.67	1.59
1	AA	77	A	C5'-C4'	7.22	1.60	1.51
1	AA	481	G	C2-N3	7.22	1.38	1.32
1	AA	564	C	N1-C2	7.22	1.47	1.40
1	AA	693	G	C5-C6	7.22	1.49	1.42
26	BB	1842	G	P-O5'	7.22	1.67	1.59
1	AA	375	U	C5-C6	7.22	1.40	1.34
26	BB	814	C	P-O5'	-7.22	1.52	1.59
26	BB	1875	G	O3'-P	7.22	1.69	1.61
1	AA	96	U	P-O5'	7.22	1.67	1.59
2	AB	49	G	C2-N3	7.22	1.38	1.32
26	BB	724	U	C4'-O4'	-7.22	1.36	1.45
26	BB	836	G	C5-C4	-7.22	1.33	1.38
26	BB	988	A	C6-N6	7.22	1.39	1.33
26	BB	2541	A	N9-C4	7.22	1.42	1.37
1	AA	498	A	N7-C5	-7.21	1.34	1.39
26	BB	612	G	C2-N3	7.21	1.38	1.32
26	BB	1184	U	N3-C4	7.21	1.45	1.38
26	BB	2362	C	C2-N3	7.21	1.41	1.35
26	BB	2778	A	N9-C4	-7.21	1.33	1.37
1	AA	1156	G	C5-C4	-7.21	1.33	1.38
26	BB	2205	A	C2-N3	7.21	1.40	1.33
1	AA	789	U	C2-O2	7.21	1.28	1.22
26	BB	184	C	N3-C4	-7.21	1.28	1.33
26	BB	647	G	N7-C5	-7.21	1.34	1.39
26	BB	1241	A	C3'-C2'	7.21	1.60	1.52
1	AA	537	G	C5-C4	-7.21	1.33	1.38
26	BB	490	C	C5-C6	7.21	1.40	1.34
26	BB	2491	U	P-O5'	7.21	1.67	1.59
1	AA	556	C	N1-C6	7.21	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	733	G	N1-C2	7.21	1.43	1.37
1	AA	822	U	P-O5'	-7.21	1.52	1.59
1	AA	1219	A	N9-C8	7.21	1.43	1.37
26	BB	638	G	N3-C4	7.21	1.40	1.35
26	BB	2358	A	C6-N6	7.21	1.39	1.33
1	AA	145	G	N3-C4	7.21	1.40	1.35
1	AA	808	C	N3-C4	7.21	1.39	1.33
26	BB	313	G	C6-N1	-7.21	1.34	1.39
26	BB	1368	G	P-O5'	7.21	1.67	1.59
26	BB	1538	G	N7-C5	-7.21	1.34	1.39
26	BB	1653	G	N1-C2	7.21	1.43	1.37
1	AA	1388	C	O3'-P	7.21	1.69	1.61
26	BB	2209	G	C6-N1	7.21	1.44	1.39
1	AA	635	A	C6-N6	7.20	1.39	1.33
1	AA	688	G	C8-N7	7.20	1.35	1.30
1	AA	933	G	O4'-C1'	7.20	1.51	1.41
1	AA	1044	A	N9-C4	7.20	1.42	1.37
26	BB	1865	U	C2-N3	7.20	1.42	1.37
26	BB	1686	C	N1-C6	7.20	1.41	1.37
1	AA	964	A	C4'-O4'	-7.20	1.36	1.45
1	AA	1088	G	N7-C5	-7.20	1.34	1.39
1	AA	1365	G	P-O5'	7.20	1.67	1.59
25	BA	86	G	C6-N1	-7.20	1.34	1.39
26	BB	1008	A	N3-C4	7.20	1.39	1.34
26	BB	2050	C	C2-N3	7.20	1.41	1.35
26	BB	2085	U	N3-C4	7.20	1.45	1.38
26	BB	1165	A	C3'-C2'	-7.20	1.44	1.52
26	BB	1389	G	N7-C5	-7.20	1.34	1.39
26	BB	1808	A	N3-C4	7.20	1.39	1.34
26	BB	2282	G	N7-C5	-7.20	1.34	1.39
1	AA	203	G	C5-C4	-7.20	1.33	1.38
26	BB	14	A	N7-C5	-7.20	1.34	1.39
26	BB	541	A	P-O5'	7.20	1.67	1.59
26	BB	378	C	C3'-C2'	7.20	1.60	1.52
26	BB	895	U	C2'-O2'	7.20	1.51	1.41
1	AA	912	C	C5-C6	7.19	1.40	1.34
26	BB	846	U	P-O5'	7.19	1.67	1.59
26	BB	93	G	N9-C4	7.19	1.43	1.38
26	BB	205	G	N9-C8	-7.19	1.32	1.37
26	BB	1427	A	N9-C4	7.19	1.42	1.37
1	AA	1057	G	C2-N3	7.19	1.38	1.32
26	BB	1279	G	N9-C8	-7.19	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1673	G	C6-N1	7.19	1.44	1.39
25	BA	115	A	C6-N6	-7.19	1.28	1.33
26	BB	814	C	C4'-C3'	-7.19	1.45	1.53
26	BB	771	G	N9-C4	7.19	1.43	1.38
1	AA	1429	A	C5-C4	-7.18	1.33	1.38
1	AA	1379	G	C6-N1	7.18	1.44	1.39
26	BB	14	A	C8-N7	7.18	1.36	1.31
26	BB	1432	G	N3-C4	7.18	1.40	1.35
26	BB	1646	C	C4-N4	7.18	1.40	1.33
26	BB	2238	G	C8-N7	7.18	1.35	1.30
26	BB	2805	C	C3'-C2'	7.18	1.60	1.52
1	AA	383	A	N7-C5	7.18	1.43	1.39
1	AA	524	G	N9-C8	7.18	1.42	1.37
26	BB	1792	G	O4'-C1'	-7.18	1.32	1.41
1	AA	347	G	C5-C4	-7.18	1.33	1.38
1	AA	362	G	O3'-P	7.18	1.69	1.61
1	AA	994	A	N9-C4	7.18	1.42	1.37
1	AA	1024	G	C2-N3	7.18	1.38	1.32
26	BB	447	A	C2'-O2'	-7.18	1.32	1.41
26	BB	631	A	C6-N6	7.18	1.39	1.33
26	BB	828	U	C4-C5	7.18	1.50	1.43
26	BB	948	C	C2-N3	7.18	1.41	1.35
26	BB	1578	U	N1-C2	7.18	1.45	1.38
26	BB	2157	G	C5'-C4'	7.18	1.59	1.51
26	BB	2194	U	C5'-C4'	7.18	1.59	1.51
1	AA	1006	G	N7-C5	7.18	1.43	1.39
26	BB	2799	A	O3'-P	7.18	1.69	1.61
1	AA	1409	C	N1-C6	7.17	1.41	1.37
1	AA	703	G	C2-N3	7.17	1.38	1.32
1	AA	794	A	N3-C4	7.17	1.39	1.34
25	BA	98	G	P-O5'	7.17	1.67	1.59
28	BD	271	SER	CA-CB	7.17	1.63	1.52
26	BB	721	A	P-O5'	7.17	1.67	1.59
26	BB	561	G	N3-C4	7.17	1.40	1.35
26	BB	592	A	N3-C4	7.17	1.39	1.34
26	BB	1987	A	C2'-C1'	-7.17	1.45	1.53
26	BB	2399	G	O3'-P	7.17	1.69	1.61
26	BB	1802	A	C4'-C3'	-7.17	1.45	1.53
26	BB	2781	A	N3-C4	7.17	1.39	1.34
1	AA	1079	G	N7-C5	7.17	1.43	1.39
26	BB	627	A	C6-N1	-7.17	1.30	1.35
26	BB	780	G	C2'-O2'	7.16	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	922	C	C2-N3	7.16	1.41	1.35
26	BB	1007	C	C2-N3	7.16	1.41	1.35
26	BB	1918	A	N3-C4	7.16	1.39	1.34
26	BB	2724	U	N3-C4	7.16	1.44	1.38
1	AA	1029	U	C4-C5	7.16	1.50	1.43
1	AA	1072	G	C6-N1	7.16	1.44	1.39
1	AA	1505	G	N3-C4	7.16	1.40	1.35
26	BB	1290	C	C2'-C1'	7.16	1.61	1.53
1	AA	743	A	N9-C4	7.16	1.42	1.37
26	BB	1014	A	C5'-C4'	7.16	1.59	1.51
26	BB	2225	A	N7-C5	-7.16	1.34	1.39
26	BB	1945	G	C4'-O4'	-7.16	1.36	1.45
1	AA	1415	G	C3'-C2'	7.16	1.60	1.52
26	BB	1996	C	C2-O2	-7.16	1.18	1.24
26	BB	1997	C	N1-C6	7.16	1.41	1.37
1	AA	925	G	N7-C5	7.15	1.43	1.39
3	AC	54	U	P-O5'	7.15	1.67	1.59
26	BB	2122	U	N1-C2	7.15	1.45	1.38
26	BB	896	A	P-O5'	7.15	1.67	1.59
26	BB	1341	G	C2-N3	7.15	1.38	1.32
26	BB	1545	A	N3-C4	-7.15	1.30	1.34
1	AA	9	G	C6-N1	7.15	1.44	1.39
1	AA	1216	A	C4'-O4'	-7.15	1.36	1.45
1	AA	1237	C	C4-C5	7.15	1.48	1.43
26	BB	108	G	C8-N7	7.15	1.35	1.30
26	BB	1185	G	C6-O6	-7.15	1.17	1.24
26	BB	1610	A	N9-C4	7.15	1.42	1.37
26	BB	2582	G	C5'-C4'	7.15	1.59	1.51
1	AA	932	C	C2-N3	7.15	1.41	1.35
26	BB	1621	U	P-O5'	7.15	1.66	1.59
26	BB	1877	A	C4'-O4'	-7.15	1.36	1.45
1	AA	1092	A	O3'-P	-7.15	1.52	1.61
26	BB	376	G	P-O5'	7.15	1.66	1.59
26	BB	1958	C	C5-C6	7.15	1.40	1.34
1	AA	28	A	C5-C6	7.14	1.47	1.41
1	AA	138	G	C8-N7	-7.14	1.26	1.30
26	BB	547	A	N3-C4	7.14	1.39	1.34
26	BB	1023	U	C4'-C3'	-7.14	1.45	1.53
26	BB	2061	G	C2-N3	7.14	1.38	1.32
26	BB	2614	A	N9-C8	-7.14	1.32	1.37
1	AA	228	A	N9-C4	7.14	1.42	1.37
1	AA	1089	G	C6-O6	-7.14	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	35	G	N9-C8	7.14	1.42	1.37
26	BB	382	A	N3-C4	7.14	1.39	1.34
26	BB	395	U	P-O5'	7.14	1.66	1.59
26	BB	637	A	N9-C8	7.14	1.43	1.37
26	BB	844	A	N7-C5	7.14	1.43	1.39
26	BB	1032	A	N3-C4	-7.14	1.30	1.34
1	AA	1088	G	C4'-O4'	-7.14	1.36	1.45
26	BB	981	A	P-O5'	7.14	1.66	1.59
2	AB	29	G	N7-C5	7.14	1.43	1.39
26	BB	610	C	C4'-O4'	-7.14	1.36	1.45
1	AA	86	G	P-O5'	7.14	1.66	1.59
26	BB	113	U	C5'-C4'	7.14	1.59	1.51
26	BB	833	A	C6-N1	-7.14	1.30	1.35
1	AA	1127	G	C8-N7	7.14	1.35	1.30
26	BB	491	G	C6-N1	7.14	1.44	1.39
26	BB	1468	U	C5-C6	7.14	1.40	1.34
1	AA	117	G	P-O5'	-7.13	1.52	1.59
1	AA	609	A	N7-C5	7.13	1.43	1.39
26	BB	1245	G	N9-C8	-7.13	1.32	1.37
26	BB	1803	A	N7-C5	7.13	1.43	1.39
26	BB	2583	G	C2-N3	7.13	1.38	1.32
4	AD	32	G	C2'-C1'	-7.13	1.45	1.53
26	BB	1366	A	C5'-C4'	7.13	1.59	1.51
26	BB	2033	A	C4'-C3'	-7.13	1.45	1.53
1	AA	501	C	C2-N3	7.13	1.41	1.35
26	BB	440	C	C5-C6	7.13	1.40	1.34
26	BB	965	C	N1-C6	7.13	1.41	1.37
26	BB	1751	U	C4'-O4'	-7.13	1.36	1.45
26	BB	1882	U	C4-C5	7.13	1.50	1.43
26	BB	2261	C	N3-C4	7.13	1.39	1.33
1	AA	1263	C	N3-C4	7.13	1.39	1.33
26	BB	1285	A	O3'-P	7.13	1.69	1.61
26	BB	1763	G	C5-C4	-7.13	1.33	1.38
26	BB	2462	C	C4-C5	7.13	1.48	1.43
1	AA	115	G	C2-N3	7.13	1.38	1.32
1	AA	1069	C	N1-C6	7.13	1.41	1.37
26	BB	1410	G	N3-C4	7.13	1.40	1.35
26	BB	2171	A	C5-C6	7.13	1.47	1.41
1	AA	330	C	N1-C6	7.13	1.41	1.37
1	AA	1174	G	N7-C5	-7.13	1.34	1.39
26	BB	157	C	C5'-C4'	7.13	1.59	1.51
26	BB	1659	G	C4'-O4'	-7.13	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2056	G	P-O5'	7.13	1.66	1.59
26	BB	2119	A	N3-C4	7.13	1.39	1.34
1	AA	78	A	C5'-C4'	7.12	1.59	1.51
1	AA	174	A	C5'-C4'	7.12	1.59	1.51
1	AA	741	G	C5'-C4'	7.12	1.59	1.51
26	BB	838	C	C2-O2	-7.12	1.18	1.24
26	BB	1235	G	C5'-C4'	7.12	1.59	1.51
1	AA	475	C	C2-N3	7.12	1.41	1.35
1	AA	674	G	C5'-C4'	7.12	1.59	1.51
1	AA	746	A	C5'-C4'	7.12	1.59	1.51
1	AA	760	G	N9-C8	-7.12	1.32	1.37
1	AA	1317	C	C4-C5	7.12	1.48	1.43
26	BB	377	G	N9-C4	7.12	1.43	1.38
26	BB	439	A	C6-N1	7.12	1.40	1.35
26	BB	1364	G	C2-N3	7.12	1.38	1.32
26	BB	1540	G	C4'-C3'	7.12	1.60	1.53
26	BB	1692	U	N1-C2	7.12	1.45	1.38
1	AA	80	A	N9-C4	7.12	1.42	1.37
1	AA	1272	G	P-O5'	7.12	1.66	1.59
26	BB	396	G	P-O5'	7.12	1.66	1.59
1	AA	78	A	C6-N6	7.12	1.39	1.33
1	AA	494	G	C4'-O4'	-7.12	1.36	1.45
1	AA	799	G	N3-C4	7.12	1.40	1.35
1	AA	964	A	N7-C5	7.12	1.43	1.39
1	AA	1526	G	N7-C5	7.12	1.43	1.39
26	BB	28	A	N7-C5	7.12	1.43	1.39
1	AA	1149	C	N1-C6	-7.12	1.32	1.37
26	BB	577	G	C2-N3	7.12	1.38	1.32
26	BB	2174	C	C3'-C2'	7.12	1.60	1.52
26	BB	2364	C	N1-C6	-7.12	1.32	1.37
1	AA	1252	A	C4'-O4'	-7.11	1.36	1.45
26	BB	898	C	C3'-C2'	-7.11	1.45	1.52
26	BB	910	A	C2'-O2'	-7.11	1.32	1.41
26	BB	1648	U	P-O5'	7.11	1.66	1.59
26	BB	1974	C	N3-C4	7.11	1.39	1.33
26	BB	2750	A	N9-C4	7.11	1.42	1.37
1	AA	603	U	N1-C2	7.11	1.45	1.38
26	BB	12	U	C5'-C4'	7.11	1.59	1.51
1	AA	254	G	C5-C4	-7.11	1.33	1.38
1	AA	302	G	N1-C2	7.11	1.43	1.37
1	AA	361	G	N3-C4	7.11	1.40	1.35
1	AA	576	C	N1-C6	7.11	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	576	U	N1-C2	7.11	1.45	1.38
1	AA	674	G	N3-C4	7.11	1.40	1.35
26	BB	179	C	P-O5'	7.11	1.66	1.59
26	BB	380	G	N9-C8	-7.11	1.32	1.37
26	BB	537	G	N3-C4	7.11	1.40	1.35
26	BB	1170	C	C4-N4	7.11	1.40	1.33
4	AD	50	G	N9-C4	7.11	1.43	1.38
26	BB	2376	A	C4'-C3'	7.11	1.60	1.53
26	BB	2587	A	P-O5'	7.11	1.66	1.59
26	BB	2843	G	O3'-P	7.11	1.69	1.61
1	AA	356	A	C5-C4	7.10	1.43	1.38
1	AA	794	A	C5-C4	-7.10	1.33	1.38
1	AA	1396	A	C5'-C4'	7.10	1.59	1.51
26	BB	1196	C	N3-C4	7.10	1.39	1.33
26	BB	1385	A	C5'-C4'	7.10	1.59	1.51
26	BB	1705	A	N9-C4	7.10	1.42	1.37
26	BB	2039	U	C2-N3	7.10	1.42	1.37
1	AA	1068	G	P-O5'	7.10	1.66	1.59
25	BA	64	G	N3-C4	7.10	1.40	1.35
1	AA	330	C	C2-O2	7.10	1.30	1.24
4	AD	12	G	C5-C4	7.10	1.43	1.38
26	BB	1143	A	N9-C4	-7.10	1.33	1.37
26	BB	1346	G	C6-N1	-7.10	1.34	1.39
26	BB	1922	G	C5'-C4'	7.10	1.59	1.51
1	AA	372	C	C5-C6	7.10	1.40	1.34
26	BB	682	G	N3-C4	-7.10	1.30	1.35
26	BB	1042	G	O3'-P	7.10	1.69	1.61
25	BA	1	U	N3-C4	7.10	1.44	1.38
26	BB	173	A	C5-C6	7.09	1.47	1.41
26	BB	332	A	P-O5'	7.09	1.66	1.59
26	BB	1254	A	C5-C6	7.09	1.47	1.41
26	BB	1764	C	P-O5'	7.09	1.66	1.59
26	BB	2520	C	N1-C6	7.09	1.41	1.37
1	AA	1315	U	N1-C2	7.09	1.45	1.38
1	AA	618	C	N3-C4	7.09	1.39	1.33
2	AB	41	C	C2'-O2'	-7.09	1.32	1.41
4	AD	28	U	P-O5'	7.09	1.66	1.59
26	BB	206	U	O5'-C5'	-7.09	1.31	1.42
26	BB	402	A	C4'-O4'	-7.09	1.36	1.45
1	AA	54	C	P-O5'	7.09	1.66	1.59
26	BB	936	A	N3-C4	7.09	1.39	1.34
26	BB	1341	G	N7-C5	7.09	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2024	G	C5'-C4'	7.09	1.59	1.51
1	AA	536	C	C4'-O4'	-7.09	1.36	1.45
1	AA	1528	U	N1-C2	7.09	1.45	1.38
26	BB	172	A	N9-C8	7.09	1.43	1.37
26	BB	2840	C	N1-C6	7.09	1.41	1.37
1	AA	464	U	C2-N3	7.09	1.42	1.37
1	AA	1472	U	P-O5'	7.09	1.66	1.59
26	BB	2245	U	C5'-C4'	7.09	1.59	1.51
1	AA	492	C	N1-C6	-7.08	1.32	1.37
1	AA	738	C	C2'-C1'	7.08	1.61	1.53
1	AA	1030	U	C2-N3	7.08	1.42	1.37
1	AA	1150	A	N9-C4	-7.08	1.33	1.37
1	AA	1499	A	O3'-P	7.08	1.69	1.61
26	BB	903	C	P-O5'	7.08	1.66	1.59
2	AB	72	U	C2-N3	7.08	1.42	1.37
25	BA	15	A	N9-C8	-7.08	1.32	1.37
26	BB	1154	G	C2-N3	7.08	1.38	1.32
26	BB	2380	C	C2'-C1'	7.08	1.61	1.53
1	AA	420	U	N1-C2	7.08	1.45	1.38
1	AA	1338	G	C2-N3	7.08	1.38	1.32
1	AA	1542	A	N3-C4	7.08	1.39	1.34
26	BB	1395	A	N7-C5	7.08	1.43	1.39
26	BB	2108	A	N9-C4	7.08	1.42	1.37
26	BB	2808	G	C6-N1	7.08	1.44	1.39
1	AA	360	G	C6-N1	-7.08	1.34	1.39
1	AA	1107	C	C2-O2	-7.08	1.18	1.24
4	AD	1	C	N3-C4	-7.08	1.28	1.33
25	BA	118	C	N1-C6	7.08	1.41	1.37
26	BB	2178	C	N1-C6	7.08	1.41	1.37
26	BB	2800	A	P-O5'	7.08	1.66	1.59
2	AB	18	G	C8-N7	-7.07	1.26	1.30
25	BA	43	C	C4-C5	-7.07	1.37	1.43
26	BB	101	A	N3-C4	7.07	1.39	1.34
26	BB	215	G	C2-N3	7.07	1.38	1.32
26	BB	1277	G	N7-C5	7.07	1.43	1.39
26	BB	1820	U	N1-C2	7.07	1.45	1.38
26	BB	2256	G	C2-N3	7.07	1.38	1.32
26	BB	2288	A	N3-C4	7.07	1.39	1.34
26	BB	2681	C	P-O5'	7.07	1.66	1.59
26	BB	1026	G	N9-C4	7.07	1.43	1.38
26	BB	179	C	N3-C4	7.07	1.38	1.33
26	BB	1734	G	O3'-P	-7.07	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2327	A	C8-N7	-7.07	1.26	1.31
26	BB	2409	G	C5-C4	-7.07	1.33	1.38
26	BB	2652	C	C4-C5	7.07	1.48	1.43
1	AA	351	G	C4'-C3'	7.07	1.60	1.53
1	AA	552	U	C3'-C2'	7.07	1.60	1.52
1	AA	711	G	C6-N1	7.07	1.44	1.39
26	BB	815	C	N1-C2	7.07	1.47	1.40
26	BB	879	G	C5-C6	7.07	1.49	1.42
26	BB	2681	C	C5-C6	7.07	1.40	1.34
2	AB	68	C	C5'-C4'	7.07	1.59	1.51
26	BB	2405	G	N3-C4	7.07	1.40	1.35
26	BB	2569	G	C5'-C4'	7.07	1.59	1.51
26	BB	194	G	C4'-O4'	-7.07	1.36	1.45
26	BB	552	U	N1-C2	7.07	1.45	1.38
26	BB	1481	U	C5-C6	7.07	1.40	1.34
26	BB	1673	G	N7-C5	-7.07	1.35	1.39
26	BB	1874	C	C2-N3	7.07	1.41	1.35
26	BB	1882	U	O3'-P	7.07	1.69	1.61
26	BB	1885	A	O3'-P	7.07	1.69	1.61
1	AA	684	U	C2-N3	7.06	1.42	1.37
26	BB	2482	A	N9-C4	7.06	1.42	1.37
26	BB	2787	C	C2-N3	7.06	1.41	1.35
1	AA	1333	A	C8-N7	-7.06	1.26	1.31
1	AA	1529	G	N9-C8	-7.06	1.32	1.37
26	BB	2023	C	C4-C5	7.06	1.48	1.43
26	BB	2411	A	P-O5'	7.06	1.66	1.59
26	BB	2864	G	C5'-C4'	7.06	1.59	1.51
26	BB	224	U	C4-C5	7.06	1.50	1.43
26	BB	1054	A	N9-C4	-7.06	1.33	1.37
26	BB	2016	U	N1-C2	7.06	1.45	1.38
26	BB	2179	C	O3'-P	-7.06	1.52	1.61
13	AM	7	ARG	CZ-NH1	7.06	1.42	1.33
22	AV	19	GLU	CD-OE1	7.06	1.33	1.25
26	BB	1641	A	C5'-C4'	7.06	1.59	1.51
26	BB	2757	A	N7-C5	7.06	1.43	1.39
1	AA	1071	C	O3'-P	7.06	1.69	1.61
1	AA	1529	G	C8-N7	-7.06	1.26	1.30
26	BB	1488	C	O3'-P	7.06	1.69	1.61
4	AD	13	C	C5-C6	7.06	1.40	1.34
26	BB	728	G	N9-C8	7.06	1.42	1.37
1	AA	19	A	C8-N7	7.05	1.36	1.31
2	AB	1	A	N9-C4	7.05	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	791	C	O3'-P	7.05	1.69	1.61
26	BB	1100	C	N3-C4	7.05	1.38	1.33
1	AA	812	G	C3'-C2'	7.05	1.60	1.52
1	AA	1031	C	C4'-O4'	-7.05	1.36	1.45
26	BB	145	C	C2-N3	7.05	1.41	1.35
1	AA	823	C	N3-C4	7.05	1.38	1.33
21	AU	3	TYR	CE1-CZ	7.05	1.47	1.38
26	BB	1815	A	C4'-C3'	-7.05	1.45	1.53
26	BB	2067	G	N1-C2	7.05	1.43	1.37
1	AA	354	G	C2-N3	7.05	1.38	1.32
4	AD	47	A	N3-C4	7.05	1.39	1.34
26	BB	545	U	C2-N3	7.05	1.42	1.37
26	BB	1399	C	N1-C6	7.05	1.41	1.37
26	BB	2126	A	N3-C4	7.05	1.39	1.34
26	BB	2340	A	N1-C2	-7.05	1.28	1.34
1	AA	1026	G	C6-N1	7.05	1.44	1.39
26	BB	1036	G	C5-C4	-7.05	1.33	1.38
1	AA	809	G	N9-C8	7.05	1.42	1.37
25	BA	21	G	C2'-C1'	7.05	1.61	1.53
26	BB	2330	G	C2'-O2'	-7.05	1.32	1.41
26	BB	2362	C	C4-N4	7.05	1.40	1.33
1	AA	523	A	N3-C4	7.04	1.39	1.34
26	BB	1524	G	P-O5'	7.04	1.66	1.59
26	BB	2266	A	C6-N6	7.04	1.39	1.33
1	AA	321	A	N7-C5	-7.04	1.35	1.39
1	AA	584	G	C4'-O4'	-7.04	1.36	1.45
26	BB	1326	U	C4-C5	7.04	1.49	1.43
26	BB	2138	G	C5'-C4'	7.04	1.59	1.51
1	AA	483	C	C2'-C1'	7.04	1.61	1.53
25	BA	25	U	C4-C5	7.04	1.49	1.43
26	BB	180	G	C8-N7	7.04	1.35	1.30
26	BB	719	C	C2'-C1'	7.04	1.61	1.53
26	BB	1039	A	C6-N6	7.04	1.39	1.33
26	BB	1575	C	P-O5'	7.04	1.66	1.59
1	AA	1028	C	N1-C6	7.04	1.41	1.37
26	BB	382	A	C6-N6	7.04	1.39	1.33
26	BB	656	G	P-O5'	7.04	1.66	1.59
26	BB	1836	C	C5'-C4'	7.04	1.59	1.51
26	BB	2854	G	N9-C8	-7.04	1.32	1.37
1	AA	113	G	N9-C4	7.04	1.43	1.38
1	AA	835	U	O3'-P	7.04	1.69	1.61
26	BB	93	G	O5'-C5'	-7.04	1.31	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	927	A	C6-N1	7.04	1.40	1.35
26	BB	2025	C	C2-N3	7.04	1.41	1.35
26	BB	338	G	N9-C4	7.04	1.43	1.38
26	BB	1630	A	P-O5'	7.04	1.66	1.59
26	BB	2747	G	N9-C8	-7.04	1.32	1.37
26	BB	2834	G	C6-N1	7.04	1.44	1.39
1	AA	10	A	C2'-C1'	7.04	1.61	1.53
1	AA	831	A	C5-C4	-7.04	1.33	1.38
1	AA	1083	U	C4-C5	7.04	1.49	1.43
1	AA	1169	A	N3-C4	7.04	1.39	1.34
1	AA	1412	C	C2-N3	7.04	1.41	1.35
26	BB	60	G	N9-C8	-7.04	1.32	1.37
26	BB	1013	C	P-O5'	7.04	1.66	1.59
26	BB	1432	G	C6-O6	7.04	1.30	1.24
1	AA	390	U	C1'-N1	7.03	1.59	1.48
2	AB	56	C	C4-N4	7.03	1.40	1.33
26	BB	110	G	C5'-C4'	7.03	1.59	1.51
26	BB	631	A	N1-C2	-7.03	1.28	1.34
26	BB	923	G	P-O5'	7.03	1.66	1.59
26	BB	1665	A	N3-C4	7.03	1.39	1.34
26	BB	1938	A	C4'-O4'	-7.03	1.36	1.45
4	AD	11	A	N1-C2	-7.03	1.28	1.34
25	BA	118	C	C3'-C2'	-7.03	1.45	1.52
26	BB	83	A	C8-N7	-7.03	1.26	1.31
26	BB	2255	G	C2-N3	7.03	1.38	1.32
26	BB	2304	G	N3-C4	7.03	1.40	1.35
1	AA	1058	G	N7-C5	7.03	1.43	1.39
26	BB	614	A	C2-N3	7.03	1.39	1.33
1	AA	1105	A	C8-N7	-7.03	1.26	1.31
1	AA	1318	A	N7-C5	-7.03	1.35	1.39
26	BB	57	C	C2-N3	7.03	1.41	1.35
26	BB	723	C	C2-O2	-7.03	1.18	1.24
26	BB	1600	C	N3-C4	-7.03	1.29	1.33
26	BB	1635	A	N9-C4	7.03	1.42	1.37
26	BB	1711	A	C4'-O4'	-7.03	1.36	1.45
26	BB	2634	A	C5-C4	-7.03	1.33	1.38
1	AA	783	C	P-O5'	-7.03	1.52	1.59
1	AA	1523	G	N7-C5	7.03	1.43	1.39
26	BB	222	A	N9-C4	-7.03	1.33	1.37
26	BB	2039	U	N1-C2	7.03	1.44	1.38
1	AA	616	G	P-O5'	-7.02	1.52	1.59
1	AA	820	U	P-O5'	-7.02	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	845	A	N9-C8	7.02	1.43	1.37
26	BB	2206	C	C4-C5	7.02	1.48	1.43
26	BB	2127	G	P-O5'	7.02	1.66	1.59
26	BB	2505	G	C4'-O4'	-7.02	1.36	1.45
1	AA	111	G	C2-N3	7.02	1.38	1.32
26	BB	411	G	C2-N3	7.02	1.38	1.32
26	BB	1201	U	C4'-O4'	-7.02	1.36	1.45
26	BB	1834	U	C2-N3	7.02	1.42	1.37
26	BB	2401	U	O3'-P	7.02	1.69	1.61
26	BB	2679	A	P-O5'	7.02	1.66	1.59
26	BB	1484	U	C2-N3	-7.02	1.32	1.37
26	BB	1712	U	N3-C4	-7.02	1.32	1.38
26	BB	2273	A	P-O5'	7.02	1.66	1.59
26	BB	2394	C	C5-C6	7.02	1.40	1.34
26	BB	981	A	C2'-C1'	7.02	1.61	1.53
26	BB	1268	A	C5-C6	-7.02	1.34	1.41
26	BB	1384	A	N3-C4	7.02	1.39	1.34
1	AA	188	C	C4-C5	7.01	1.48	1.43
1	AA	1494	G	N7-C5	-7.01	1.35	1.39
26	BB	318	C	O3'-P	7.01	1.69	1.61
26	BB	379	G	C4'-O4'	-7.01	1.36	1.45
26	BB	549	G	C8-N7	-7.01	1.26	1.30
2	AB	3	G	P-O5'	7.01	1.66	1.59
14	AN	10	ARG	CZ-NH1	7.01	1.42	1.33
26	BB	1018	U	P-O5'	7.01	1.66	1.59
26	BB	1195	G	C2-N3	7.01	1.38	1.32
26	BB	2048	G	C6-N1	7.01	1.44	1.39
26	BB	2227	A	O3'-P	-7.01	1.52	1.61
1	AA	206	C	C4-C5	7.01	1.48	1.43
1	AA	791	G	C2-N3	7.01	1.38	1.32
1	AA	1336	C	C2-N3	7.01	1.41	1.35
3	AC	14	G	C5-C4	-7.01	1.33	1.38
26	BB	203	A	C4'-C3'	-7.01	1.45	1.53
26	BB	879	G	N3-C4	7.01	1.40	1.35
26	BB	1391	U	C4'-O4'	-7.01	1.36	1.45
26	BB	1622	G	P-O5'	7.01	1.66	1.59
26	BB	2418	A	N9-C4	7.01	1.42	1.37
1	AA	1216	A	N3-C4	7.01	1.39	1.34
26	BB	1271	G	N7-C5	7.01	1.43	1.39
1	AA	726	C	O3'-P	7.01	1.69	1.61
26	BB	1862	G	P-O5'	7.01	1.66	1.59
26	BB	1956	U	P-O5'	7.01	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1594	U	N1-C6	7.00	1.44	1.38
26	BB	2451	A	N3-C4	7.00	1.39	1.34
2	AB	7	G	P-O5'	7.00	1.66	1.59
26	BB	1032	A	N9-C4	7.00	1.42	1.37
26	BB	1405	U	C3'-C2'	7.00	1.60	1.52
26	BB	1694	C	N1-C2	7.00	1.47	1.40
26	BB	2107	G	C6-N1	7.00	1.44	1.39
1	AA	336	A	N9-C8	7.00	1.43	1.37
1	AA	983	A	C6-N6	-7.00	1.28	1.33
26	BB	1201	U	C4-C5	7.00	1.49	1.43
26	BB	2685	G	P-O5'	7.00	1.66	1.59
26	BB	450	G	C2-N3	7.00	1.38	1.32
25	BA	6	G	C6-N1	7.00	1.44	1.39
25	BA	27	C	N1-C6	7.00	1.41	1.37
26	BB	578	G	N9-C8	-7.00	1.32	1.37
26	BB	2327	A	N7-C5	7.00	1.43	1.39
1	AA	1100	C	C4'-O4'	-7.00	1.36	1.45
26	BB	923	G	C2-N3	7.00	1.38	1.32
26	BB	666	A	N7-C5	7.00	1.43	1.39
26	BB	898	C	C5-C6	7.00	1.40	1.34
26	BB	992	C	C4'-O4'	-6.99	1.36	1.45
26	BB	1394	U	N1-C2	6.99	1.44	1.38
26	BB	2077	A	N9-C8	6.99	1.43	1.37
26	BB	1957	C	P-O5'	6.99	1.66	1.59
1	AA	16	A	C6-N1	6.99	1.40	1.35
1	AA	292	G	N9-C8	-6.99	1.32	1.37
1	AA	411	A	N9-C8	6.99	1.43	1.37
26	BB	2772	C	N3-C4	6.99	1.38	1.33
1	AA	1014	A	C2'-C1'	6.99	1.61	1.53
26	BB	1598	A	N7-C5	-6.99	1.35	1.39
26	BB	1690	A	C3'-O3'	-6.99	1.32	1.42
26	BB	2151	U	N3-C4	6.99	1.44	1.38
26	BB	741	U	N1-C2	6.99	1.44	1.38
26	BB	2823	A	N3-C4	6.99	1.39	1.34
1	AA	591	U	C3'-C2'	6.99	1.60	1.52
26	BB	511	U	C4'-O4'	-6.99	1.36	1.45
26	BB	1743	G	N3-C4	6.99	1.40	1.35
26	BB	2163	A	C5'-C4'	6.99	1.59	1.51
26	BB	2538	C	P-O5'	6.99	1.66	1.59
1	AA	1138	G	N3-C4	6.98	1.40	1.35
1	AA	1427	C	N1-C6	6.98	1.41	1.37
26	BB	1166	G	N9-C8	6.98	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1711	A	C4'-C3'	6.98	1.60	1.53
26	BB	2350	C	C4-C5	6.98	1.48	1.43
1	AA	983	A	N7-C5	-6.98	1.35	1.39
26	BB	2618	G	N3-C4	6.98	1.40	1.35
47	BW	85	ARG	CZ-NH2	6.98	1.42	1.33
1	AA	243	A	C2-N3	6.98	1.39	1.33
1	AA	691	G	N3-C4	-6.98	1.30	1.35
26	BB	1489	C	N1-C6	-6.98	1.32	1.37
26	BB	1744	A	C6-N6	6.98	1.39	1.33
26	BB	2147	A	C6-N6	6.98	1.39	1.33
1	AA	885	G	P-O5'	6.98	1.66	1.59
26	BB	12	U	C2-N3	6.98	1.42	1.37
1	AA	532	A	N3-C4	6.98	1.39	1.34
26	BB	527	C	C2-N3	6.98	1.41	1.35
26	BB	1398	C	O3'-P	6.98	1.69	1.61
26	BB	1920	C	C5-C6	6.98	1.40	1.34
26	BB	2791	G	C6-O6	-6.98	1.17	1.24
1	AA	28	A	P-O5'	6.98	1.66	1.59
1	AA	540	G	N7-C5	-6.98	1.35	1.39
1	AA	1104	G	C2-N3	6.98	1.38	1.32
26	BB	762	U	P-O5'	6.98	1.66	1.59
26	BB	1082	U	P-O5'	6.98	1.66	1.59
26	BB	2092	U	N1-C2	6.98	1.44	1.38
1	AA	1114	C	C2-N3	-6.97	1.30	1.35
1	AA	1179	A	C5-C6	6.97	1.47	1.41
26	BB	516	C	C4'-O4'	-6.97	1.36	1.45
26	BB	804	A	N3-C4	6.97	1.39	1.34
26	BB	953	G	P-O5'	6.97	1.66	1.59
25	BA	33	G	N1-C2	6.97	1.43	1.37
26	BB	172	A	C5-C4	-6.97	1.33	1.38
26	BB	1759	A	P-O5'	6.97	1.66	1.59
26	BB	1789	A	N7-C5	-6.97	1.35	1.39
26	BB	2484	G	C8-N7	6.97	1.35	1.30
26	BB	2772	C	N1-C6	6.97	1.41	1.37
26	BB	2816	G	C2-N3	6.97	1.38	1.32
26	BB	2839	G	O3'-P	6.97	1.69	1.61
1	AA	827	U	O3'-P	6.97	1.69	1.61
26	BB	1316	U	P-O5'	6.97	1.66	1.59
26	BB	1447	C	N3-C4	6.97	1.38	1.33
26	BB	1561	C	N1-C6	6.97	1.41	1.37
1	AA	742	G	N7-C5	6.97	1.43	1.39
1	AA	1064	G	C4'-C3'	6.97	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	458	G	C5'-C4'	6.97	1.59	1.51
26	BB	1448	G	C6-N1	6.97	1.44	1.39
26	BB	308	G	C2'-O2'	-6.97	1.32	1.41
26	BB	719	C	N1-C6	6.97	1.41	1.37
1	AA	1426	G	N3-C4	6.97	1.40	1.35
26	BB	1419	A	C5-C4	-6.97	1.33	1.38
26	BB	2639	A	C5'-C4'	6.97	1.59	1.51
1	AA	1276	G	N9-C8	6.96	1.42	1.37
26	BB	71	A	C5'-C4'	6.96	1.59	1.51
26	BB	1071	G	C2-N3	6.96	1.38	1.32
26	BB	1646	C	N3-C4	6.96	1.38	1.33
26	BB	2685	G	C4'-O4'	-6.96	1.36	1.45
26	BB	1043	C	C2-N3	6.96	1.41	1.35
26	BB	378	C	N1-C2	6.96	1.47	1.40
26	BB	1749	A	N9-C8	6.96	1.43	1.37
26	BB	1761	C	P-O5'	6.96	1.66	1.59
26	BB	2365	G	C8-N7	-6.96	1.26	1.30
26	BB	2803	G	N7-C5	-6.96	1.35	1.39
1	AA	1179	A	C4'-O4'	-6.96	1.36	1.45
26	BB	1373	A	C5'-C4'	6.96	1.59	1.51
4	AD	36	A	C5-C6	6.96	1.47	1.41
25	BA	103	U	C2-N3	6.96	1.42	1.37
26	BB	48	G	C2'-C1'	6.96	1.61	1.53
26	BB	689	A	N9-C4	-6.96	1.33	1.37
26	BB	1502	A	N3-C4	6.96	1.39	1.34
26	BB	1778	U	C5-C6	6.96	1.40	1.34
26	BB	1967	C	N1-C6	-6.96	1.32	1.37
26	BB	2687	U	N3-C4	-6.96	1.32	1.38
26	BB	145	C	C4-N4	-6.96	1.27	1.33
26	BB	327	G	C8-N7	-6.96	1.26	1.30
3	AC	22	G	N9-C8	6.95	1.42	1.37
26	BB	661	A	C4'-O4'	-6.95	1.36	1.45
26	BB	1125	G	N9-C8	6.95	1.42	1.37
26	BB	294	A	C4'-O4'	-6.95	1.36	1.45
1	AA	593	U	C2-N3	6.95	1.42	1.37
1	AA	600	A	N7-C5	6.95	1.43	1.39
26	BB	1292	G	N3-C4	6.95	1.40	1.35
26	BB	1335	C	C2-N3	6.95	1.41	1.35
26	BB	2230	G	N7-C5	6.95	1.43	1.39
1	AA	270	A	N9-C4	6.95	1.42	1.37
1	AA	902	G	C2-N3	6.95	1.38	1.32
1	AA	609	A	C2'-C1'	-6.95	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1268	G	O3'-P	6.95	1.69	1.61
2	AB	63	C	C4-C5	6.95	1.48	1.43
25	BA	44	G	N3-C4	-6.95	1.30	1.35
26	BB	893	C	C3'-C2'	-6.95	1.45	1.52
26	BB	1136	G	C2-N3	6.95	1.38	1.32
26	BB	2418	A	C2'-O2'	-6.95	1.32	1.41
1	AA	953	G	P-O5'	6.94	1.66	1.59
26	BB	2114	A	N7-C5	-6.94	1.35	1.39
26	BB	2261	C	C4-N4	6.94	1.40	1.33
1	AA	1346	A	C8-N7	-6.94	1.26	1.31
26	BB	2001	C	C3'-C2'	6.94	1.60	1.52
26	BB	2122	U	C2-N3	6.94	1.42	1.37
26	BB	2626	C	N1-C6	-6.94	1.32	1.37
26	BB	2837	A	N3-C4	6.94	1.39	1.34
1	AA	1247	U	C4-C5	6.94	1.49	1.43
1	AA	1294	G	C8-N7	-6.94	1.26	1.30
2	AB	57	G	C3'-C2'	6.94	1.60	1.52
26	BB	139	U	C3'-C2'	-6.94	1.45	1.52
26	BB	1426	G	N7-C5	6.94	1.43	1.39
26	BB	1488	C	C4-C5	6.94	1.48	1.43
26	BB	1735	A	N9-C4	6.94	1.42	1.37
26	BB	1753	G	C4'-O4'	-6.94	1.36	1.45
26	BB	2797	U	C4'-O4'	-6.94	1.36	1.45
1	AA	324	G	N1-C2	6.94	1.43	1.37
1	AA	1465	A	C6-N1	-6.94	1.30	1.35
12	AL	38	PHE	CG-CD2	6.94	1.49	1.38
26	BB	947	A	N9-C4	6.94	1.42	1.37
26	BB	1374	G	N9-C8	-6.94	1.32	1.37
26	BB	1522	A	N7-C5	6.94	1.43	1.39
26	BB	2762	C	O4'-C1'	6.94	1.50	1.41
1	AA	610	U	C2-O2	6.94	1.28	1.22
26	BB	235	U	N1-C2	6.94	1.44	1.38
26	BB	1707	G	C8-N7	-6.94	1.26	1.30
1	AA	403	C	N1-C6	-6.93	1.32	1.37
26	BB	863	A	P-O5'	6.93	1.66	1.59
1	AA	766	A	P-O5'	6.93	1.66	1.59
26	BB	1769	U	C4-C5	6.93	1.49	1.43
1	AA	47	C	N3-C4	6.93	1.38	1.33
1	AA	449	G	C6-N1	6.93	1.44	1.39
1	AA	772	U	C2-N3	6.93	1.42	1.37
2	AB	3	G	C4'-O4'	-6.93	1.36	1.45
26	BB	263	G	O3'-P	6.93	1.69	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1111	A	C6-N1	-6.93	1.30	1.35
26	BB	1786	A	C4'-C3'	6.93	1.60	1.53
26	BB	2214	C	C5-C6	6.93	1.39	1.34
1	AA	1101	A	C4'-C3'	6.93	1.60	1.53
1	AA	1238	A	N3-C4	6.93	1.39	1.34
26	BB	225	C	O3'-P	6.93	1.69	1.61
26	BB	1816	C	C4'-O4'	-6.93	1.36	1.45
1	AA	512	U	N1-C6	-6.92	1.31	1.38
1	AA	1403	C	C2'-C1'	6.92	1.60	1.53
1	AA	1485	U	C2-N3	6.92	1.42	1.37
26	BB	372	G	C5-C6	6.92	1.49	1.42
26	BB	1492	G	C8-N7	-6.92	1.26	1.30
26	BB	2329	U	N3-C4	6.92	1.44	1.38
26	BB	2443	C	P-O5'	6.92	1.66	1.59
26	BB	73	A	C3'-C2'	6.92	1.60	1.52
26	BB	1503	A	C5'-C4'	6.92	1.59	1.51
26	BB	708	G	N7-C5	6.92	1.43	1.39
26	BB	1040	A	C6-N6	-6.92	1.28	1.33
26	BB	1265	A	C5'-C4'	6.92	1.59	1.51
26	BB	1505	A	N3-C4	6.92	1.39	1.34
26	BB	2217	G	P-O5'	6.92	1.66	1.59
26	BB	2660	A	N3-C4	-6.92	1.30	1.34
1	AA	288	A	C5-C6	6.92	1.47	1.41
1	AA	365	U	C4-C5	6.92	1.49	1.43
1	AA	1403	C	N1-C6	6.92	1.41	1.37
2	AB	59	G	C4'-O4'	-6.92	1.36	1.45
26	BB	2650	U	C2-N3	6.92	1.42	1.37
1	AA	739	C	C4'-O4'	-6.92	1.36	1.45
2	AB	2	G	N3-C4	6.92	1.40	1.35
25	BA	59	A	O4'-C1'	6.92	1.50	1.41
1	AA	245	U	N1-C2	6.92	1.44	1.38
1	AA	1303	C	N1-C6	6.92	1.41	1.37
26	BB	70	G	C4'-O4'	-6.92	1.36	1.45
26	BB	2570	G	C6-N1	6.92	1.44	1.39
1	AA	1525	G	P-O5'	6.92	1.66	1.59
26	BB	226	A	N7-C5	6.92	1.43	1.39
1	AA	312	C	N3-C4	-6.91	1.29	1.33
1	AA	1537	U	C4-C5	6.91	1.49	1.43
26	BB	2316	G	C8-N7	-6.91	1.26	1.30
26	BB	2840	C	C4-C5	6.91	1.48	1.43
26	BB	1	G	C5-C4	-6.91	1.33	1.38
1	AA	102	G	P-O5'	6.91	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1366	C	N3-C4	6.91	1.38	1.33
1	AA	1496	C	C5-C6	6.91	1.39	1.34
2	AB	24	G	P-O5'	6.91	1.66	1.59
26	BB	1373	A	N9-C4	-6.91	1.33	1.37
26	BB	1462	C	P-O5'	6.91	1.66	1.59
26	BB	1538	G	O3'-P	6.91	1.69	1.61
26	BB	2170	A	C2'-C1'	-6.91	1.45	1.53
1	AA	1176	A	O3'-P	6.91	1.69	1.61
1	AA	1336	C	N3-C4	6.91	1.38	1.33
2	AB	41	C	C4-C5	6.91	1.48	1.43
26	BB	977	G	C6-N1	6.91	1.44	1.39
26	BB	1337	G	N9-C4	6.91	1.43	1.38
26	BB	1694	C	C2-N3	-6.91	1.30	1.35
26	BB	2729	G	N9-C8	6.91	1.42	1.37
1	AA	723	U	C4'-O4'	-6.91	1.36	1.45
26	BB	748	G	C5-C6	6.91	1.49	1.42
1	AA	409	U	C4-C5	6.90	1.49	1.43
1	AA	452	A	N7-C5	-6.90	1.35	1.39
1	AA	1045	C	N3-C4	6.90	1.38	1.33
26	BB	696	G	C6-N1	-6.90	1.34	1.39
26	BB	1229	C	N1-C6	6.90	1.41	1.37
1	AA	317	U	N1-C2	6.90	1.44	1.38
1	AA	900	A	N3-C4	6.90	1.39	1.34
1	AA	958	A	C6-N1	-6.90	1.30	1.35
25	BA	45	A	C2'-C1'	6.90	1.60	1.53
26	BB	48	G	P-O5'	6.90	1.66	1.59
26	BB	1349	C	C4'-O4'	-6.90	1.36	1.45
26	BB	1473	G	C1'-N9	6.90	1.59	1.48
26	BB	2385	C	C4-N4	-6.90	1.27	1.33
26	BB	2433	A	P-O5'	6.90	1.66	1.59
26	BB	2670	A	C8-N7	-6.90	1.26	1.31
26	BB	2794	C	N1-C6	6.90	1.41	1.37
26	BB	2831	G	N3-C4	6.90	1.40	1.35
1	AA	81	A	N9-C8	6.90	1.43	1.37
1	AA	170	U	C5'-C4'	6.90	1.59	1.51
1	AA	480	U	O3'-P	6.90	1.69	1.61
1	AA	1504	G	C6-N1	-6.90	1.34	1.39
26	BB	1501	G	N1-C2	6.90	1.43	1.37
26	BB	2384	U	C5'-C4'	6.90	1.59	1.51
1	AA	462	G	N3-C4	-6.90	1.30	1.35
1	AA	616	G	C5-C6	6.90	1.49	1.42
25	BA	80	U	C5'-C4'	6.90	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1604	C	C2-N3	6.90	1.41	1.35
26	BB	2252	G	N3-C4	6.90	1.40	1.35
26	BB	2903	U	C5'-C4'	6.90	1.59	1.51
1	AA	100	G	C2-N2	-6.90	1.27	1.34
1	AA	1145	A	N3-C4	6.90	1.39	1.34
26	BB	1202	G	C2-N2	-6.90	1.27	1.34
26	BB	1813	G	N1-C2	6.90	1.43	1.37
26	BB	2407	A	N9-C4	6.90	1.42	1.37
1	AA	614	C	O3'-P	-6.89	1.52	1.61
1	AA	1493	A	O3'-P	6.89	1.69	1.61
15	AO	93	ARG	NE-CZ	6.89	1.42	1.33
26	BB	2802	G	C5-C6	6.89	1.49	1.42
1	AA	532	A	P-O5'	6.89	1.66	1.59
26	BB	272	A	P-O5'	6.89	1.66	1.59
26	BB	2323	G	C2-N3	6.89	1.38	1.32
26	BB	2443	C	C4'-O4'	-6.89	1.36	1.45
26	BB	319	G	C6-N1	6.89	1.44	1.39
26	BB	2758	A	N9-C8	6.89	1.43	1.37
1	AA	200	G	C6-N1	6.89	1.44	1.39
1	AA	223	A	C5'-C4'	6.89	1.59	1.51
26	BB	289	G	N7-C5	-6.89	1.35	1.39
26	BB	1610	A	P-O5'	6.89	1.66	1.59
26	BB	2097	A	O3'-P	6.89	1.69	1.61
1	AA	919	A	N7-C5	6.89	1.43	1.39
1	AA	1242	G	N7-C5	6.89	1.43	1.39
26	BB	619	G	C2-N3	6.89	1.38	1.32
26	BB	1654	A	N1-C2	-6.89	1.28	1.34
26	BB	2274	A	N9-C4	6.89	1.42	1.37
1	AA	426	U	P-O5'	-6.89	1.52	1.59
1	AA	890	G	N3-C4	6.89	1.40	1.35
26	BB	777	G	O3'-P	6.89	1.69	1.61
26	BB	2217	G	C2'-O2'	6.89	1.50	1.41
26	BB	2655	G	C2-N3	6.89	1.38	1.32
1	AA	43	C	P-O5'	6.88	1.66	1.59
1	AA	744	C	C4-C5	6.88	1.48	1.43
1	AA	924	C	C4'-O4'	-6.88	1.36	1.45
26	BB	539	G	C2-N3	6.88	1.38	1.32
26	BB	671	C	O4'-C1'	6.88	1.50	1.41
26	BB	951	C	O3'-P	6.88	1.69	1.61
26	BB	2402	U	P-O5'	6.88	1.66	1.59
1	AA	344	A	P-O5'	6.88	1.66	1.59
1	AA	906	A	N7-C5	-6.88	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1275	A	P-O5'	6.88	1.66	1.59
26	BB	313	G	C2-N3	6.88	1.38	1.32
26	BB	454	A	N7-C5	6.88	1.43	1.39
26	BB	541	A	C8-N7	-6.88	1.26	1.31
26	BB	1029	A	N9-C8	6.88	1.43	1.37
26	BB	1791	A	P-O5'	6.88	1.66	1.59
26	BB	2300	C	N3-C4	6.88	1.38	1.33
1	AA	1250	A	C8-N7	-6.88	1.26	1.31
26	BB	458	G	O3'-P	6.88	1.69	1.61
26	BB	2168	G	C8-N7	-6.88	1.26	1.30
26	BB	2277	G	O4'-C1'	6.88	1.50	1.41
1	AA	1010	U	C4-O4	-6.88	1.18	1.23
26	BB	37	C	N1-C6	6.88	1.41	1.37
26	BB	84	A	C5-C4	-6.88	1.33	1.38
26	BB	2579	C	N1-C2	6.88	1.47	1.40
1	AA	1200	C	C4-C5	6.88	1.48	1.43
26	BB	1916	A	P-O5'	6.88	1.66	1.59
26	BB	416	U	O3'-P	6.87	1.69	1.61
26	BB	1043	C	P-O5'	6.87	1.66	1.59
26	BB	1350	C	C2-N3	6.87	1.41	1.35
1	AA	828	U	C3'-C2'	6.87	1.60	1.52
1	AA	1102	A	C2'-C1'	6.87	1.60	1.53
26	BB	26	G	C5'-C4'	6.87	1.59	1.51
26	BB	582	A	C6-N1	6.87	1.40	1.35
26	BB	764	A	P-O5'	6.87	1.66	1.59
26	BB	1073	A	N9-C4	6.87	1.42	1.37
26	BB	2468	A	N1-C2	-6.87	1.28	1.34
26	BB	2810	A	N3-C4	-6.87	1.30	1.34
26	BB	638	G	N1-C2	6.87	1.43	1.37
26	BB	935	C	P-O5'	6.87	1.66	1.59
1	AA	317	U	C5'-C4'	6.87	1.59	1.51
26	BB	86	G	C5-C6	6.87	1.49	1.42
26	BB	389	G	C2-N3	6.87	1.38	1.32
26	BB	649	G	C4'-O4'	-6.87	1.36	1.45
26	BB	835	C	C5'-C4'	6.87	1.59	1.51
26	BB	1633	G	C3'-C2'	6.87	1.60	1.52
26	BB	248	G	N3-C4	6.87	1.40	1.35
26	BB	1866	A	O3'-P	6.87	1.69	1.61
26	BB	2591	C	N1-C6	-6.87	1.33	1.37
26	BB	2660	A	C6-N6	-6.87	1.28	1.33
1	AA	10	A	N3-C4	6.87	1.39	1.34
1	AA	582	C	C4-N4	6.87	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1332	A	N1-C2	-6.87	1.28	1.34
26	BB	1815	A	C5'-C4'	6.87	1.59	1.51
26	BB	2434	A	C4'-O4'	-6.87	1.36	1.45
1	AA	713	G	C6-N1	6.86	1.44	1.39
1	AA	847	G	C5-C6	6.86	1.49	1.42
26	BB	279	A	N3-C4	6.86	1.39	1.34
26	BB	1009	A	P-O5'	6.86	1.66	1.59
26	BB	1462	C	C2-N3	6.86	1.41	1.35
26	BB	1923	U	N1-C2	6.86	1.44	1.38
26	BB	2736	A	N3-C4	6.86	1.39	1.34
26	BB	2593	U	N3-C4	6.86	1.44	1.38
26	BB	824	U	C3'-C2'	6.86	1.60	1.52
26	BB	2410	G	C8-N7	-6.86	1.26	1.30
26	BB	185	G	P-O5'	6.86	1.66	1.59
26	BB	404	A	C6-N1	6.86	1.40	1.35
26	BB	829	A	O3'-P	6.86	1.69	1.61
26	BB	1800	C	C4'-C3'	-6.86	1.45	1.53
26	BB	2169	A	N7-C5	-6.86	1.35	1.39
26	BB	2192	U	P-O5'	6.86	1.66	1.59
26	BB	2753	A	N3-C4	6.86	1.39	1.34
26	BB	98	G	N1-C2	6.86	1.43	1.37
26	BB	218	A	C5'-C4'	6.86	1.59	1.51
26	BB	656	G	N1-C2	6.86	1.43	1.37
1	AA	1470	U	N1-C2	6.86	1.44	1.38
26	BB	895	U	C2'-C1'	-6.86	1.45	1.53
26	BB	2806	C	C5'-C4'	6.86	1.59	1.51
1	AA	292	G	N3-C4	6.85	1.40	1.35
26	BB	881	G	N3-C4	6.85	1.40	1.35
26	BB	2582	G	N3-C4	6.85	1.40	1.35
1	AA	988	G	C4'-O4'	-6.85	1.36	1.45
1	AA	1051	C	O3'-P	6.85	1.69	1.61
26	BB	137	U	N1-C2	6.85	1.44	1.38
26	BB	1381	G	C5-C4	-6.85	1.33	1.38
26	BB	1575	C	N1-C6	6.85	1.41	1.37
26	BB	1948	G	C2-N3	6.85	1.38	1.32
26	BB	2143	C	C2'-O2'	-6.85	1.32	1.41
1	AA	823	C	O3'-P	6.85	1.69	1.61
26	BB	684	G	P-O5'	6.85	1.66	1.59
26	BB	1907	G	N1-C2	6.85	1.43	1.37
26	BB	2900	A	N3-C4	6.85	1.39	1.34
26	BB	162	U	C4-C5	6.85	1.49	1.43
26	BB	1699	G	C2'-C1'	-6.85	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2418	A	C8-N7	-6.85	1.26	1.31
1	AA	74	A	O4'-C1'	-6.85	1.32	1.41
1	AA	1353	G	C6-N1	6.85	1.44	1.39
26	BB	1189	A	C8-N7	-6.85	1.26	1.31
26	BB	2157	G	N9-C8	-6.85	1.33	1.37
1	AA	499	A	N7-C5	-6.84	1.35	1.39
2	AB	59	G	C5'-C4'	6.84	1.59	1.51
26	BB	812	C	O3'-P	6.84	1.69	1.61
26	BB	1584	U	C2-N3	6.84	1.42	1.37
26	BB	1838	C	P-O5'	6.84	1.66	1.59
29	BE	80	TRP	CD2-CE2	6.84	1.49	1.41
1	AA	912	C	P-O5'	6.84	1.66	1.59
26	BB	1660	G	C2-N3	-6.84	1.27	1.32
26	BB	133	U	C2-N3	6.84	1.42	1.37
26	BB	697	G	C8-N7	6.84	1.35	1.30
26	BB	2484	G	C6-N1	6.84	1.44	1.39
1	AA	1424	U	C5-C6	6.84	1.40	1.34
25	BA	117	G	C6-O6	-6.84	1.18	1.24
26	BB	1757	A	N9-C8	6.84	1.43	1.37
26	BB	1811	G	C8-N7	-6.84	1.26	1.30
1	AA	66	A	O4'-C1'	6.84	1.50	1.41
1	AA	1143	G	C6-N1	-6.84	1.34	1.39
26	BB	187	G	N9-C4	6.84	1.43	1.38
26	BB	2354	C	C4'-O4'	-6.84	1.36	1.45
1	AA	299	G	N3-C4	6.84	1.40	1.35
1	AA	1401	G	N1-C2	6.84	1.43	1.37
26	BB	1082	U	C4'-C3'	-6.84	1.45	1.53
26	BB	1695	G	C8-N7	6.84	1.35	1.30
26	BB	2661	G	N3-C4	6.84	1.40	1.35
26	BB	2833	U	C2-O2	6.84	1.28	1.22
1	AA	879	C	C2-O2	-6.83	1.18	1.24
26	BB	60	G	N7-C5	6.83	1.43	1.39
34	BJ	133	GLU	CG-CD	6.83	1.62	1.51
1	AA	890	G	C5'-C4'	6.83	1.59	1.51
26	BB	514	A	N3-C4	6.83	1.39	1.34
26	BB	1222	U	C4'-O4'	-6.83	1.36	1.45
26	BB	2499	C	C5'-C4'	6.83	1.59	1.51
26	BB	2559	C	N1-C6	6.83	1.41	1.37
1	AA	221	C	C2'-C1'	-6.83	1.45	1.53
1	AA	1006	G	N3-C4	6.83	1.40	1.35
1	AA	1155	A	C6-N1	-6.83	1.30	1.35
2	AB	33	U	C2-N3	-6.83	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	375	G	C4'-O4'	-6.83	1.36	1.45
26	BB	698	C	N3-C4	6.83	1.38	1.33
26	BB	667	U	C5'-C4'	6.83	1.59	1.51
1	AA	181	A	C3'-C2'	6.83	1.60	1.52
26	BB	826	U	N1-C6	6.83	1.44	1.38
26	BB	2046	G	C2-N3	6.83	1.38	1.32
2	AB	47	U	C5-C6	6.83	1.40	1.34
26	BB	1256	G	N3-C4	6.83	1.40	1.35
26	BB	1266	G	C6-O6	-6.83	1.18	1.24
26	BB	2461	A	C6-N6	6.83	1.39	1.33
1	AA	288	A	N3-C4	6.83	1.39	1.34
1	AA	903	G	N3-C4	6.83	1.40	1.35
2	AB	4	G	C6-N1	6.83	1.44	1.39
3	AC	40	G	N7-C5	6.83	1.43	1.39
26	BB	403	U	N1-C2	6.83	1.44	1.38
26	BB	1521	G	N3-C4	6.83	1.40	1.35
26	BB	325	G	C2-N3	6.82	1.38	1.32
1	AA	987	G	N1-C2	6.82	1.43	1.37
4	AD	37	U	C2-O2	6.82	1.28	1.22
25	BA	31	C	C2-N3	6.82	1.41	1.35
26	BB	2	G	C6-N1	6.82	1.44	1.39
26	BB	479	A	O3'-P	6.82	1.69	1.61
1	AA	1082	A	N7-C5	6.82	1.43	1.39
1	AA	1464	U	N1-C2	6.82	1.44	1.38
26	BB	416	U	C4-O4	6.82	1.29	1.23
26	BB	838	C	C5-C6	6.82	1.39	1.34
25	BA	100	G	C2-N3	6.82	1.38	1.32
26	BB	45	G	P-O5'	6.82	1.66	1.59
26	BB	592	A	C5'-C4'	6.82	1.59	1.51
26	BB	1572	A	C6-N1	-6.82	1.30	1.35
26	BB	2447	G	N7-C5	-6.82	1.35	1.39
1	AA	328	C	C4'-O4'	-6.82	1.36	1.45
1	AA	1476	A	C5-C6	6.82	1.47	1.41
26	BB	396	G	C2-N3	6.82	1.38	1.32
26	BB	444	C	P-O5'	6.82	1.66	1.59
26	BB	1393	A	C2'-C1'	6.82	1.60	1.53
26	BB	1781	U	P-O5'	6.82	1.66	1.59
26	BB	2638	G	C5-C4	6.82	1.43	1.38
26	BB	2683	C	C4-C5	6.82	1.48	1.43
1	AA	212	G	N7-C5	6.81	1.43	1.39
1	AA	432	A	C4'-O4'	-6.81	1.36	1.45
26	BB	1274	A	O3'-P	6.81	1.69	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	38	C	N1-C6	6.81	1.41	1.37
26	BB	875	G	P-O5'	6.81	1.66	1.59
26	BB	1012	U	C2-N3	6.81	1.42	1.37
26	BB	1578	U	C4-C5	6.81	1.49	1.43
26	BB	2669	G	C2-N3	6.81	1.38	1.32
26	BB	1534	U	N3-C4	6.81	1.44	1.38
26	BB	1979	U	C2-N3	6.81	1.42	1.37
1	AA	1224	U	C4'-O4'	-6.81	1.36	1.45
26	BB	19	A	O3'-P	6.81	1.69	1.61
26	BB	987	C	P-O5'	6.81	1.66	1.59
26	BB	2097	A	C2-N3	-6.81	1.27	1.33
26	BB	2480	C	C5-C6	6.81	1.39	1.34
26	BB	2825	G	C6-N1	6.81	1.44	1.39
1	AA	281	G	C2-N3	6.81	1.38	1.32
1	AA	359	G	N9-C4	-6.81	1.32	1.38
1	AA	453	G	C2'-O2'	-6.81	1.32	1.41
26	BB	79	C	C2'-C1'	6.81	1.60	1.53
26	BB	575	A	N3-C4	6.81	1.39	1.34
26	BB	1250	G	C8-N7	-6.81	1.26	1.30
26	BB	1610	A	C6-N1	6.81	1.40	1.35
26	BB	1643	G	C6-O6	-6.81	1.18	1.24
26	BB	1849	G	C8-N7	-6.81	1.26	1.30
26	BB	2258	C	N3-C4	6.81	1.38	1.33
26	BB	2272	U	O3'-P	6.81	1.69	1.61
26	BB	1166	G	O4'-C1'	6.81	1.50	1.41
26	BB	1763	G	N3-C4	6.81	1.40	1.35
26	BB	739	A	C6-N6	6.80	1.39	1.33
26	BB	1081	U	C2'-C1'	6.80	1.60	1.53
26	BB	1959	G	N3-C4	6.80	1.40	1.35
26	BB	2179	C	N1-C6	6.80	1.41	1.37
26	BB	2890	G	N3-C4	6.80	1.40	1.35
1	AA	1089	G	N9-C8	6.80	1.42	1.37
25	BA	25	U	C3'-O3'	6.80	1.51	1.42
26	BB	369	U	N3-C4	6.80	1.44	1.38
3	AC	41	A	C4'-O4'	-6.80	1.36	1.45
26	BB	2495	G	C6-N1	-6.80	1.34	1.39
1	AA	283	U	N3-C4	6.80	1.44	1.38
1	AA	917	G	C3'-C2'	6.80	1.60	1.52
1	AA	1070	U	N3-C4	6.80	1.44	1.38
1	AA	1236	A	N9-C4	6.80	1.42	1.37
1	AA	1306	A	N9-C4	-6.80	1.33	1.37
1	AA	1443	C	P-O5'	6.80	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	869	G	C2'-C1'	6.80	1.60	1.53
26	BB	1588	G	P-O5'	6.80	1.66	1.59
26	BB	1756	G	C2'-C1'	6.80	1.60	1.53
26	BB	2044	C	P-O5'	6.80	1.66	1.59
1	AA	1534	A	C5-C6	6.80	1.47	1.41
26	BB	251	A	C5'-C4'	6.80	1.59	1.51
26	BB	583	G	N3-C4	6.80	1.40	1.35
1	AA	1060	U	C4'-C3'	6.80	1.60	1.53
26	BB	738	G	C2-N2	-6.80	1.27	1.34
26	BB	968	C	N1-C6	6.80	1.41	1.37
26	BB	2303	G	C6-O6	6.80	1.30	1.24
26	BB	2685	G	N3-C4	6.80	1.40	1.35
26	BB	2696	U	O4'-C1'	6.80	1.50	1.41
26	BB	2862	G	N9-C8	-6.80	1.33	1.37
1	AA	1371	G	C8-N7	-6.79	1.26	1.30
26	BB	322	A	N3-C4	6.79	1.39	1.34
26	BB	2183	A	C5'-C4'	6.79	1.59	1.51
26	BB	2418	A	N3-C4	6.79	1.39	1.34
26	BB	450	G	P-O5'	6.79	1.66	1.59
26	BB	2584	U	P-O5'	6.79	1.66	1.59
1	AA	371	A	C5'-C4'	6.79	1.59	1.51
4	AD	5	G	C6-N1	6.79	1.44	1.39
26	BB	644	A	C2-N3	6.79	1.39	1.33
26	BB	2628	C	C5-C6	6.79	1.39	1.34
4	AD	65	G	C2-N3	6.79	1.38	1.32
26	BB	783	A	N3-C4	-6.79	1.30	1.34
1	AA	222	C	O3'-P	6.79	1.69	1.61
1	AA	1216	A	O3'-P	6.79	1.69	1.61
3	AC	35	G	C8-N7	-6.79	1.26	1.30
26	BB	588	U	P-O5'	6.79	1.66	1.59
26	BB	2154	A	C5'-C4'	6.79	1.59	1.51
1	AA	1454	G	N7-C5	6.79	1.43	1.39
26	BB	671	C	N1-C6	6.79	1.41	1.37
1	AA	1139	G	C4'-O4'	-6.79	1.36	1.45
26	BB	489	G	C2-N3	6.79	1.38	1.32
26	BB	618	G	C5-C4	-6.79	1.33	1.38
26	BB	2237	G	N3-C4	6.79	1.40	1.35
26	BB	2698	U	O3'-P	6.79	1.69	1.61
1	AA	159	G	C8-N7	-6.78	1.26	1.30
1	AA	775	G	C5'-C4'	6.78	1.59	1.51
1	AA	1086	U	C4-C5	6.78	1.49	1.43
1	AA	1249	C	N1-C2	6.78	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	350	G	N9-C8	6.78	1.42	1.37
26	BB	1409	U	C5'-C4'	6.78	1.59	1.51
26	BB	1095	A	C6-N6	-6.78	1.28	1.33
26	BB	2239	G	N7-C5	6.78	1.43	1.39
1	AA	1298	U	C5'-C4'	6.78	1.59	1.51
2	AB	44	G	N9-C4	6.78	1.43	1.38
26	BB	54	G	C5-C6	6.78	1.49	1.42
26	BB	778	G	O3'-P	6.78	1.69	1.61
26	BB	1990	C	C5'-C4'	6.78	1.59	1.51
1	AA	648	A	C5-C6	6.78	1.47	1.41
1	AA	1492	A	N3-C4	6.78	1.39	1.34
26	BB	364	C	C3'-O3'	-6.78	1.32	1.42
1	AA	196	A	N3-C4	6.78	1.39	1.34
1	AA	328	C	C2-N3	6.78	1.41	1.35
1	AA	438	U	N1-C2	6.78	1.44	1.38
26	BB	470	A	C5-C6	6.78	1.47	1.41
26	BB	1450	G	C6-N1	6.78	1.44	1.39
26	BB	2348	U	C4'-C3'	-6.78	1.45	1.53
1	AA	601	G	N7-C5	6.78	1.43	1.39
1	AA	1061	G	N9-C8	-6.78	1.33	1.37
1	AA	1326	U	N3-C4	6.78	1.44	1.38
1	AA	1499	A	C6-N6	-6.78	1.28	1.33
3	AC	41	A	C2'-C1'	-6.78	1.45	1.53
26	BB	2640	G	C8-N7	6.78	1.35	1.30
25	BA	34	A	N3-C4	6.77	1.39	1.34
26	BB	906	U	C4-O4	6.77	1.29	1.23
2	AB	75	C	N3-C4	6.77	1.38	1.33
26	BB	535	G	N9-C8	6.77	1.42	1.37
26	BB	1494	A	C6-N1	6.77	1.40	1.35
26	BB	1498	C	P-O5'	6.77	1.66	1.59
26	BB	2054	A	C8-N7	6.77	1.36	1.31
26	BB	2168	G	N1-C2	6.77	1.43	1.37
1	AA	1265	C	C2-O2	-6.77	1.18	1.24
26	BB	200	U	C2-N3	-6.77	1.33	1.37
26	BB	363	G	N9-C8	6.77	1.42	1.37
26	BB	1979	U	C5-C6	6.77	1.40	1.34
1	AA	539	A	C2'-C1'	-6.77	1.46	1.53
1	AA	558	G	C8-N7	-6.77	1.26	1.30
1	AA	670	G	C2-N3	6.77	1.38	1.32
1	AA	685	G	P-O5'	6.77	1.66	1.59
1	AA	1009	U	P-O5'	6.77	1.66	1.59
1	AA	1264	U	C5'-C4'	6.77	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1390	U	N1-C6	-6.77	1.31	1.38
26	BB	1393	A	N7-C5	-6.77	1.35	1.39
26	BB	1406	U	C3'-C2'	6.77	1.60	1.52
26	BB	1568	G	N9-C8	6.77	1.42	1.37
26	BB	1671	U	N1-C2	6.77	1.44	1.38
26	BB	1710	G	N1-C2	6.77	1.43	1.37
26	BB	2309	A	C6-N6	6.77	1.39	1.33
26	BB	2856	A	C5'-C4'	6.77	1.59	1.51
1	AA	1379	G	P-O5'	6.77	1.66	1.59
26	BB	1215	G	N9-C4	6.77	1.43	1.38
1	AA	1093	A	N9-C4	6.77	1.42	1.37
26	BB	152	A	C8-N7	-6.77	1.26	1.31
26	BB	1759	A	C6-N1	-6.77	1.30	1.35
26	BB	1899	A	N9-C8	6.77	1.43	1.37
26	BB	2084	C	C2'-O2'	-6.77	1.32	1.41
1	AA	128	G	C5-C4	6.76	1.43	1.38
1	AA	569	C	C3'-C2'	6.76	1.60	1.52
1	AA	1116	U	C4-C5	6.76	1.49	1.43
1	AA	1510	C	C2-N3	6.76	1.41	1.35
26	BB	609	A	C6-N6	6.76	1.39	1.33
26	BB	1224	U	C4'-O4'	-6.76	1.36	1.45
1	AA	1486	G	O3'-P	6.76	1.69	1.61
1	AA	117	G	N7-C5	6.76	1.43	1.39
16	AP	85	TYR	CG-CD1	6.76	1.48	1.39
26	BB	807	U	P-O5'	6.76	1.66	1.59
1	AA	529	G	O4'-C1'	6.76	1.50	1.41
1	AA	943	U	C2-N3	6.76	1.42	1.37
1	AA	1412	C	C4-C5	6.76	1.48	1.43
26	BB	31	C	P-O5'	6.76	1.66	1.59
26	BB	853	C	C3'-C2'	6.76	1.60	1.52
26	BB	1475	G	N7-C5	6.76	1.43	1.39
26	BB	2056	G	C5-C4	6.76	1.43	1.38
26	BB	2759	G	P-O5'	6.76	1.66	1.59
26	BB	533	G	C6-N1	-6.76	1.34	1.39
26	BB	2470	G	C2-N3	6.76	1.38	1.32
1	AA	66	A	P-O5'	6.76	1.66	1.59
1	AA	174	A	C5-C6	6.76	1.47	1.41
1	AA	343	U	C2'-C1'	6.76	1.60	1.53
1	AA	499	A	N3-C4	6.76	1.39	1.34
1	AA	593	U	P-O5'	6.76	1.66	1.59
1	AA	661	G	C8-N7	-6.76	1.26	1.30
1	AA	725	G	C2-N3	6.76	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	764	C	N3-C4	-6.76	1.29	1.33
1	AA	800	G	N1-C2	6.76	1.43	1.37
26	BB	1092	C	C5'-C4'	6.76	1.59	1.51
26	BB	1163	G	N9-C8	-6.76	1.33	1.37
26	BB	2533	U	C2-N3	6.76	1.42	1.37
26	BB	2702	G	P-O5'	6.76	1.66	1.59
1	AA	308	C	N3-C4	6.75	1.38	1.33
1	AA	1317	C	C4'-C3'	6.75	1.60	1.53
1	AA	51	A	N3-C4	6.75	1.39	1.34
1	AA	555	U	O3'-P	6.75	1.69	1.61
1	AA	1053	G	N9-C8	-6.75	1.33	1.37
26	BB	776	G	C2-N3	6.75	1.38	1.32
26	BB	1058	U	C2-N3	6.75	1.42	1.37
1	AA	38	G	C4'-C3'	-6.75	1.45	1.53
26	BB	391	A	C2'-O2'	6.75	1.50	1.41
26	BB	654	A	C5-C4	-6.75	1.34	1.38
26	BB	1636	U	C5'-C4'	6.75	1.59	1.51
26	BB	2561	U	C2-N3	6.75	1.42	1.37
26	BB	2880	C	C4-N4	-6.75	1.27	1.33
26	BB	1129	A	C6-N1	6.75	1.40	1.35
26	BB	1433	A	C6-N1	6.75	1.40	1.35
1	AA	186	C	C4'-C3'	-6.75	1.45	1.53
1	AA	348	G	C5-C4	-6.75	1.33	1.38
1	AA	825	A	C4'-O4'	-6.75	1.36	1.45
4	AD	6	G	C3'-O3'	6.75	1.51	1.42
26	BB	890	C	C4-N4	6.75	1.40	1.33
4	AD	76	C	O3'-P	6.75	1.69	1.61
1	AA	621	A	N3-C4	6.74	1.38	1.34
1	AA	1513	A	N7-C5	-6.74	1.35	1.39
26	BB	165	A	C2'-C1'	6.74	1.60	1.53
26	BB	541	A	N7-C5	6.74	1.43	1.39
26	BB	2711	A	C5-C4	-6.74	1.34	1.38
26	BB	1310	G	C5'-C4'	6.74	1.59	1.51
26	BB	1623	G	C4'-C3'	-6.74	1.45	1.53
1	AA	24	U	N1-C2	6.74	1.44	1.38
26	BB	588	U	N3-C4	6.74	1.44	1.38
26	BB	589	U	N1-C6	6.74	1.44	1.38
26	BB	1013	C	C2-N3	6.74	1.41	1.35
26	BB	1017	G	N9-C8	6.74	1.42	1.37
26	BB	1266	G	N7-C5	6.74	1.43	1.39
26	BB	1417	C	C4'-O4'	-6.74	1.36	1.45
26	BB	553	G	C2'-O2'	6.74	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1236	G	C6-N1	-6.74	1.34	1.39
1	AA	879	C	C5'-C4'	6.74	1.59	1.51
1	AA	1266	G	N3-C4	6.74	1.40	1.35
1	AA	1379	G	C4'-O4'	-6.74	1.36	1.45
1	AA	1477	U	C4-C5	6.74	1.49	1.43
26	BB	842	U	O5'-C5'	-6.74	1.32	1.42
26	BB	1633	G	P-O5'	6.74	1.66	1.59
26	BB	1847	A	N9-C8	6.74	1.43	1.37
1	AA	1303	C	O4'-C1'	6.73	1.50	1.41
26	BB	2260	C	P-O5'	6.73	1.66	1.59
26	BB	2366	A	N9-C4	-6.73	1.33	1.37
26	BB	2411	A	C5-C4	-6.73	1.34	1.38
26	BB	2693	G	C5-C6	6.73	1.49	1.42
1	AA	440	C	C4-N4	6.73	1.40	1.33
1	AA	1155	A	N9-C4	-6.73	1.33	1.37
25	BA	78	A	N9-C4	6.73	1.41	1.37
26	BB	615	U	C4-C5	-6.73	1.37	1.43
26	BB	1742	U	C5'-C4'	6.73	1.59	1.51
1	AA	185	U	C4-C5	6.73	1.49	1.43
26	BB	311	A	N3-C4	6.73	1.38	1.34
26	BB	1678	A	N9-C4	6.73	1.41	1.37
26	BB	2813	A	N3-C4	6.73	1.38	1.34
26	BB	495	G	N7-C5	-6.73	1.35	1.39
1	AA	141	G	P-O5'	6.73	1.66	1.59
1	AA	588	G	C2-N3	6.73	1.38	1.32
26	BB	1805	A	C5'-C4'	6.73	1.59	1.51
26	BB	2604	U	C2-N3	6.73	1.42	1.37
26	BB	2718	G	C4'-C3'	6.73	1.60	1.53
3	AC	26	U	C2-N3	6.73	1.42	1.37
1	AA	736	C	N1-C6	6.72	1.41	1.37
1	AA	838	G	O3'-P	6.72	1.69	1.61
26	BB	187	G	C5'-C4'	6.72	1.59	1.51
26	BB	2764	A	N3-C4	6.72	1.38	1.34
1	AA	702	A	N3-C4	6.72	1.38	1.34
26	BB	426	C	C2-N3	6.72	1.41	1.35
26	BB	968	C	N3-C4	6.72	1.38	1.33
1	AA	1097	C	C5'-C4'	6.72	1.59	1.51
26	BB	1882	U	N1-C2	6.72	1.44	1.38
26	BB	1634	A	N1-C2	-6.72	1.28	1.34
26	BB	2116	G	N1-C2	6.72	1.43	1.37
1	AA	571	U	N3-C4	6.72	1.44	1.38
26	BB	918	A	N3-C4	-6.72	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	38	G	O3'-P	-6.72	1.53	1.61
1	AA	505	G	P-O5'	6.72	1.66	1.59
1	AA	840	C	C2-N3	6.72	1.41	1.35
1	AA	1313	U	C2'-C1'	6.72	1.60	1.53
1	AA	1475	G	P-O5'	6.72	1.66	1.59
26	BB	198	C	C4-C5	6.72	1.48	1.43
26	BB	234	U	P-O5'	6.72	1.66	1.59
26	BB	748	G	N3-C4	6.72	1.40	1.35
26	BB	769	U	P-O5'	6.72	1.66	1.59
26	BB	1316	U	O3'-P	6.72	1.69	1.61
26	BB	1683	U	C4-C5	6.72	1.49	1.43
26	BB	1916	A	N9-C4	-6.72	1.33	1.37
26	BB	2050	C	N3-C4	6.72	1.38	1.33
1	AA	684	U	N1-C6	6.71	1.44	1.38
1	AA	1141	C	O3'-P	6.71	1.69	1.61
25	BA	93	C	N3-C4	6.71	1.38	1.33
26	BB	823	C	C4-C5	6.71	1.48	1.43
26	BB	2261	C	C4'-O4'	-6.71	1.36	1.45
26	BB	2813	A	N9-C8	6.71	1.43	1.37
25	BA	3	C	C5'-C4'	6.71	1.59	1.51
26	BB	2082	A	N9-C8	-6.71	1.32	1.37
1	AA	981	U	P-O5'	6.71	1.66	1.59
25	BA	82	U	C2-N3	6.71	1.42	1.37
26	BB	1041	G	N3-C4	6.71	1.40	1.35
26	BB	1969	A	N3-C4	6.71	1.38	1.34
26	BB	2428	G	C2'-C1'	6.71	1.60	1.53
26	BB	2719	G	C5'-C4'	6.71	1.59	1.51
1	AA	226	G	C3'-C2'	6.71	1.60	1.52
1	AA	639	G	C5'-C4'	6.71	1.59	1.51
1	AA	1292	G	N9-C8	6.71	1.42	1.37
8	AH	127	TYR	CE2-CZ	6.71	1.47	1.38
1	AA	81	A	C5'-C4'	6.71	1.59	1.51
1	AA	366	A	P-O5'	6.71	1.66	1.59
26	BB	202	U	C4-C5	6.71	1.49	1.43
26	BB	2243	U	P-O5'	6.71	1.66	1.59
26	BB	1579	A	N3-C4	6.71	1.38	1.34
26	BB	1724	G	N7-C5	-6.71	1.35	1.39
26	BB	2483	C	C4-C5	6.71	1.48	1.43
26	BB	2513	A	N9-C4	6.71	1.41	1.37
1	AA	658	C	C4-C5	6.71	1.48	1.43
1	AA	928	G	P-O5'	6.71	1.66	1.59
1	AA	931	C	O3'-P	-6.71	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	21	G	O3'-P	6.71	1.69	1.61
26	BB	133	U	P-O5'	6.71	1.66	1.59
26	BB	1567	G	N9-C4	6.71	1.43	1.38
1	AA	228	A	C5-C6	6.70	1.47	1.41
1	AA	1220	G	C5'-C4'	6.70	1.59	1.51
2	AB	76	A	C4'-C3'	6.70	1.60	1.53
25	BA	71	C	N3-C4	6.70	1.38	1.33
26	BB	193	U	N3-C4	6.70	1.44	1.38
26	BB	750	A	O3'-P	6.70	1.69	1.61
26	BB	1073	A	C5-C6	6.70	1.47	1.41
26	BB	2685	G	N9-C8	6.70	1.42	1.37
25	BA	109	A	C4'-O4'	-6.70	1.36	1.45
26	BB	2462	C	N1-C6	6.70	1.41	1.37
26	BB	1283	G	O3'-P	-6.70	1.53	1.61
26	BB	1286	A	O3'-P	-6.70	1.53	1.61
26	BB	1354	A	O3'-P	6.70	1.69	1.61
26	BB	1574	C	P-O5'	6.70	1.66	1.59
26	BB	1885	A	N7-C5	-6.70	1.35	1.39
26	BB	2578	G	N7-C5	-6.70	1.35	1.39
1	AA	242	G	N1-C2	6.70	1.43	1.37
1	AA	1208	C	O3'-P	6.70	1.69	1.61
26	BB	662	G	C4'-C3'	6.70	1.60	1.53
26	BB	2183	A	C2-N3	6.70	1.39	1.33
26	BB	2471	A	N9-C8	6.70	1.43	1.37
26	BB	2825	G	C2-N2	6.70	1.41	1.34
1	AA	803	G	C5'-C4'	6.70	1.59	1.51
26	BB	252	G	C2-N3	6.70	1.38	1.32
26	BB	1216	G	N1-C2	6.70	1.43	1.37
1	AA	329	A	N9-C4	6.70	1.41	1.37
1	AA	351	G	N1-C2	6.70	1.43	1.37
4	AD	37	U	N1-C6	6.70	1.44	1.38
26	BB	1497	U	N1-C2	6.70	1.44	1.38
26	BB	1553	A	N3-C4	6.70	1.38	1.34
26	BB	1601	G	C2-N3	6.70	1.38	1.32
26	BB	1977	A	N1-C2	-6.70	1.28	1.34
26	BB	2522	U	C4-C5	6.70	1.49	1.43
1	AA	237	G	O4'-C1'	6.69	1.50	1.41
2	AB	3	G	N7-C5	6.69	1.43	1.39
26	BB	1276	A	C4'-O4'	-6.69	1.36	1.45
26	BB	2277	G	C4'-O4'	-6.69	1.36	1.45
1	AA	640	A	N7-C5	6.69	1.43	1.39
1	AA	1528	U	C2-N3	6.69	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	256	A	O3'-P	6.69	1.69	1.61
26	BB	366	C	P-O5'	6.69	1.66	1.59
26	BB	1222	U	C5'-C4'	6.69	1.59	1.51
26	BB	1992	G	O3'-P	6.69	1.69	1.61
26	BB	2132	U	C2-N3	6.69	1.42	1.37
26	BB	2341	G	N1-C2	6.69	1.43	1.37
1	AA	304	U	C5-C6	6.69	1.40	1.34
1	AA	859	G	C2-N3	6.69	1.38	1.32
26	BB	474	G	C8-N7	6.69	1.34	1.30
26	BB	989	G	P-O5'	6.69	1.66	1.59
26	BB	1094	U	C2'-C1'	6.69	1.60	1.53
1	AA	36	C	P-O5'	6.69	1.66	1.59
1	AA	394	G	C8-N7	6.69	1.34	1.30
26	BB	1176	U	C5'-C4'	6.69	1.59	1.51
26	BB	2540	C	C4-N4	-6.69	1.27	1.33
1	AA	357	G	P-O5'	-6.69	1.53	1.59
2	AB	9	A	C8-N7	-6.69	1.26	1.31
26	BB	1293	C	C4'-C3'	6.69	1.60	1.53
26	BB	1591	A	C8-N7	-6.69	1.26	1.31
26	BB	1602	U	C4-C5	6.69	1.49	1.43
26	BB	2506	U	N1-C2	6.69	1.44	1.38
26	BB	2812	G	C2-N3	6.69	1.38	1.32
26	BB	1479	G	C5-C4	6.69	1.43	1.38
26	BB	2636	C	C2'-O2'	6.69	1.50	1.41
1	AA	519	C	C2'-C1'	6.68	1.60	1.53
1	AA	751	U	N1-C6	-6.68	1.31	1.38
1	AA	1505	G	C6-N1	6.68	1.44	1.39
1	AA	1533	C	N3-C4	-6.68	1.29	1.33
26	BB	614	A	N3-C4	6.68	1.38	1.34
26	BB	2834	G	O3'-P	6.68	1.69	1.61
33	BI	45	GLU	CD-OE1	-6.68	1.18	1.25
1	AA	213	G	N7-C5	-6.68	1.35	1.39
1	AA	1531	A	C5'-C4'	6.68	1.59	1.51
3	AC	42	U	P-O5'	6.68	1.66	1.59
26	BB	548	G	C6-N1	6.68	1.44	1.39
26	BB	1782	U	C2-N3	6.68	1.42	1.37
26	BB	2778	A	N7-C5	-6.68	1.35	1.39
1	AA	767	A	N9-C4	6.68	1.41	1.37
26	BB	2185	U	N3-C4	-6.68	1.32	1.38
1	AA	492	C	C5-C6	6.68	1.39	1.34
1	AA	682	G	N3-C4	6.68	1.40	1.35
1	AA	714	G	C6-N1	6.68	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	748	G	C2-N3	6.68	1.38	1.32
1	AA	1499	A	O4'-C1'	6.68	1.50	1.41
26	BB	1413	A	N9-C8	6.68	1.43	1.37
26	BB	2805	C	N1-C6	-6.68	1.33	1.37
1	AA	1204	A	C5-C4	6.68	1.43	1.38
26	BB	739	A	C5-C4	-6.68	1.34	1.38
26	BB	2493	U	C3'-O3'	6.68	1.51	1.42
44	BT	90	ARG	CZ-NH1	6.68	1.41	1.33
1	AA	139	A	C2'-C1'	-6.68	1.46	1.53
4	AD	22	A	P-O5'	6.68	1.66	1.59
4	AD	37	U	C2-N3	6.68	1.42	1.37
26	BB	1302	A	N7-C5	-6.68	1.35	1.39
26	BB	1326	U	N1-C2	6.68	1.44	1.38
26	BB	1624	U	C4'-C3'	6.68	1.60	1.53
26	BB	1867	G	N1-C2	6.68	1.43	1.37
26	BB	2418	A	N7-C5	6.68	1.43	1.39
26	BB	2881	U	C2-N3	6.68	1.42	1.37
1	AA	108	G	P-O5'	6.67	1.66	1.59
1	AA	255	G	C2-N3	6.67	1.38	1.32
1	AA	725	G	C5-C6	6.67	1.49	1.42
1	AA	954	G	C5'-C4'	6.67	1.59	1.51
1	AA	1272	G	C2-N2	-6.67	1.27	1.34
26	BB	224	U	P-O5'	6.67	1.66	1.59
26	BB	1902	C	C2-N3	6.67	1.41	1.35
1	AA	1373	G	C3'-C2'	6.67	1.60	1.52
26	BB	2399	G	C8-N7	-6.67	1.26	1.30
26	BB	2689	U	C2'-C1'	-6.67	1.46	1.53
1	AA	325	A	N3-C4	6.67	1.38	1.34
1	AA	537	G	O3'-P	6.67	1.69	1.61
4	AD	10	G	N1-C2	6.67	1.43	1.37
26	BB	117	G	N7-C5	-6.67	1.35	1.39
26	BB	1057	A	N9-C4	6.67	1.41	1.37
26	BB	2102	G	N9-C8	-6.67	1.33	1.37
26	BB	2464	G	C5-C4	-6.67	1.33	1.38
26	BB	2825	G	C2-N3	6.67	1.38	1.32
25	BA	51	G	C8-N7	6.67	1.34	1.30
26	BB	2001	C	O4'-C1'	-6.67	1.32	1.41
26	BB	2039	U	C4-C5	6.67	1.49	1.43
26	BB	2047	C	N3-C4	6.67	1.38	1.33
1	AA	6	G	P-O5'	6.67	1.66	1.59
1	AA	162	A	N3-C4	6.67	1.38	1.34
1	AA	1056	U	O4'-C1'	6.67	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2851	A	C2'-C1'	-6.67	1.46	1.53
1	AA	373	A	N7-C5	-6.67	1.35	1.39
2	AB	47	U	N1-C2	6.67	1.44	1.38
26	BB	893	C	C4-N4	-6.67	1.27	1.33
26	BB	1005	C	C5'-C4'	6.67	1.59	1.51
26	BB	1151	A	C5'-C4'	6.67	1.59	1.51
26	BB	2679	A	N9-C4	-6.67	1.33	1.37
1	AA	749	A	C6-N1	6.67	1.40	1.35
26	BB	809	G	C2'-C1'	6.67	1.60	1.53
26	BB	2819	G	O3'-P	6.67	1.69	1.61
1	AA	929	G	C5-C6	6.66	1.49	1.42
26	BB	120	U	C4-O4	6.66	1.28	1.23
26	BB	751	A	C6-N6	6.66	1.39	1.33
26	BB	2642	G	C6-N1	-6.66	1.34	1.39
1	AA	1479	C	P-O5'	6.66	1.66	1.59
26	BB	1702	G	C6-N1	6.66	1.44	1.39
26	BB	1988	G	N9-C4	-6.66	1.32	1.38
26	BB	2903	U	C2-N3	6.66	1.42	1.37
1	AA	255	G	C8-N7	-6.66	1.26	1.30
26	BB	464	U	C4'-C3'	-6.66	1.45	1.53
26	BB	1220	G	C8-N7	6.66	1.34	1.30
26	BB	1605	C	N3-C4	6.66	1.38	1.33
26	BB	2031	A	C5-C4	-6.66	1.34	1.38
1	AA	965	U	C4-O4	-6.66	1.18	1.23
1	AA	1013	G	C4'-O4'	-6.66	1.36	1.45
1	AA	1156	G	N3-C4	-6.66	1.30	1.35
1	AA	1372	U	C2-O2	6.66	1.28	1.22
26	BB	187	G	P-O5'	6.66	1.66	1.59
26	BB	378	C	N1-C6	6.66	1.41	1.37
26	BB	1409	U	C2-N3	6.66	1.42	1.37
26	BB	1483	G	C8-N7	-6.66	1.26	1.30
26	BB	2048	G	N7-C5	-6.66	1.35	1.39
1	AA	1179	A	N1-C2	-6.66	1.28	1.34
26	BB	526	A	C5'-C4'	6.66	1.59	1.51
26	BB	221	A	C8-N7	-6.66	1.26	1.31
26	BB	616	A	C2-N3	6.66	1.39	1.33
2	AB	71	C	C5-C6	6.65	1.39	1.34
26	BB	736	C	C5'-C4'	6.65	1.59	1.51
26	BB	1081	U	C4-O4	-6.65	1.18	1.23
26	BB	1422	G	C2'-C1'	-6.65	1.46	1.53
26	BB	2385	C	O3'-P	-6.65	1.53	1.61
1	AA	978	A	C2-N3	6.65	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1087	G	P-O5'	6.65	1.66	1.59
1	AA	1341	U	P-O5'	6.65	1.66	1.59
26	BB	904	G	N1-C2	6.65	1.43	1.37
26	BB	1437	C	P-O5'	6.65	1.66	1.59
26	BB	1867	G	C5-C6	6.65	1.49	1.42
26	BB	2107	G	N7-C5	6.65	1.43	1.39
26	BB	2511	U	C2-O2	6.65	1.28	1.22
26	BB	2521	C	P-O5'	6.65	1.66	1.59
26	BB	2882	A	N3-C4	6.65	1.38	1.34
1	AA	209	U	C2'-C1'	6.65	1.60	1.53
1	AA	263	A	C5'-C4'	6.65	1.59	1.51
1	AA	1036	A	C8-N7	-6.65	1.26	1.31
1	AA	1282	C	C5'-C4'	6.65	1.59	1.51
25	BA	87	U	O3'-P	6.65	1.69	1.61
26	BB	1645	G	O3'-P	6.65	1.69	1.61
26	BB	2803	G	N9-C8	6.65	1.42	1.37
1	AA	1018	G	N7-C5	-6.65	1.35	1.39
4	AD	3	C	N1-C6	6.65	1.41	1.37
26	BB	586	A	N9-C4	6.65	1.41	1.37
26	BB	640	C	N1-C2	-6.65	1.33	1.40
26	BB	926	G	C5'-C4'	6.65	1.59	1.51
26	BB	1902	C	C3'-C2'	6.65	1.60	1.52
26	BB	2104	C	N1-C6	6.65	1.41	1.37
26	BB	2413	G	C2-N3	6.65	1.38	1.32
26	BB	2587	A	C2'-C1'	6.65	1.60	1.53
1	AA	57	G	C3'-C2'	-6.64	1.45	1.52
26	BB	1600	C	N1-C6	6.64	1.41	1.37
26	BB	1665	A	N7-C5	-6.64	1.35	1.39
1	AA	338	A	C5-C6	6.64	1.47	1.41
26	BB	28	A	C6-N6	-6.64	1.28	1.33
26	BB	284	U	C5'-C4'	6.64	1.59	1.51
26	BB	1012	U	C2'-O2'	6.64	1.50	1.41
26	BB	1702	G	N3-C4	6.64	1.40	1.35
26	BB	1824	G	N9-C4	-6.64	1.32	1.38
26	BB	2585	U	C4'-C3'	6.64	1.60	1.53
26	BB	2661	G	C4'-C3'	-6.64	1.45	1.53
26	BB	2712	C	C2-N3	6.64	1.41	1.35
1	AA	543	U	C2-N3	6.64	1.42	1.37
26	BB	822	G	C4'-C3'	-6.64	1.45	1.53
26	BB	2196	C	C5'-C4'	6.64	1.59	1.51
1	AA	315	A	N3-C4	6.64	1.38	1.34
1	AA	854	U	C5-C6	6.64	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1117	A	N1-C2	-6.64	1.28	1.34
4	AD	46	G	N3-C4	6.64	1.40	1.35
26	BB	46	G	C3'-C2'	6.64	1.60	1.52
26	BB	90	U	C5-C6	6.64	1.40	1.34
26	BB	204	A	C5'-C4'	6.64	1.59	1.51
26	BB	1109	C	C4'-O4'	-6.64	1.36	1.45
26	BB	1643	G	C2-N3	6.64	1.38	1.32
1	AA	77	A	C4'-O4'	-6.64	1.36	1.45
1	AA	867	G	C5'-C4'	6.64	1.59	1.51
26	BB	93	G	N7-C5	6.64	1.43	1.39
26	BB	780	G	N3-C4	6.64	1.40	1.35
26	BB	2590	A	N1-C2	-6.64	1.28	1.34
1	AA	1341	U	C2-N3	6.64	1.42	1.37
1	AA	1392	G	N7-C5	-6.64	1.35	1.39
25	BA	103	U	C3'-C2'	6.64	1.60	1.52
26	BB	571	U	C4'-O4'	-6.64	1.36	1.45
26	BB	1388	G	C8-N7	6.64	1.34	1.30
26	BB	1904	G	C6-N1	6.64	1.44	1.39
1	AA	152	A	N7-C5	-6.63	1.35	1.39
1	AA	337	G	C6-O6	-6.63	1.18	1.24
1	AA	1433	A	N3-C4	6.63	1.38	1.34
26	BB	255	A	N9-C4	-6.63	1.33	1.37
26	BB	325	G	C2-N2	-6.63	1.27	1.34
26	BB	453	A	C2'-O2'	6.63	1.50	1.41
26	BB	2354	C	C5-C6	6.63	1.39	1.34
46	BV	80	TRP	CA-CB	6.63	1.68	1.53
1	AA	34	C	C5'-C4'	6.63	1.59	1.51
4	AD	24	C	N3-C4	6.63	1.38	1.33
26	BB	691	C	N1-C6	6.63	1.41	1.37
26	BB	1110	G	C8-N7	-6.63	1.26	1.30
26	BB	1555	G	C2-N3	-6.63	1.27	1.32
26	BB	1619	G	N1-C2	6.63	1.43	1.37
1	AA	209	U	C2-N3	6.63	1.42	1.37
1	AA	953	G	C3'-O3'	6.63	1.51	1.42
1	AA	1455	G	C6-N1	6.63	1.44	1.39
26	BB	378	C	N3-C4	6.63	1.38	1.33
26	BB	656	G	C5'-C4'	6.63	1.59	1.51
26	BB	1597	A	N7-C5	-6.63	1.35	1.39
26	BB	1628	G	C3'-C2'	6.63	1.60	1.52
26	BB	1676	A	C4'-C3'	6.63	1.60	1.53
26	BB	1688	U	C5-C6	6.63	1.40	1.34
26	BB	2249	U	P-O5'	6.63	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2810	A	C5-C6	6.63	1.47	1.41
1	AA	652	U	C4-C5	6.63	1.49	1.43
1	AA	1184	G	C2-N3	6.63	1.38	1.32
26	BB	665	U	C4-C5	6.63	1.49	1.43
26	BB	2854	G	C8-N7	6.63	1.34	1.30
1	AA	1079	G	C8-N7	-6.63	1.26	1.30
1	AA	1118	U	C4'-O4'	-6.63	1.36	1.45
1	AA	1274	A	C6-N6	6.63	1.39	1.33
26	BB	41	C	C5'-C4'	6.63	1.59	1.51
26	BB	341	C	C5-C6	-6.63	1.29	1.34
1	AA	672	U	N1-C2	6.63	1.44	1.38
1	AA	735	C	C2-N3	6.63	1.41	1.35
1	AA	1129	C	N1-C6	6.63	1.41	1.37
1	AA	1374	A	C4'-C3'	6.63	1.60	1.53
26	BB	1843	C	C2-N3	6.63	1.41	1.35
26	BB	1889	A	C3'-O3'	6.63	1.51	1.42
1	AA	787	A	C8-N7	-6.62	1.26	1.31
26	BB	1889	A	N1-C2	6.62	1.40	1.34
26	BB	2451	A	N7-C5	6.62	1.43	1.39
1	AA	440	C	C2-N3	6.62	1.41	1.35
1	AA	732	C	P-O5'	6.62	1.66	1.59
1	AA	1166	G	C8-N7	-6.62	1.26	1.30
26	BB	681	G	N1-C2	6.62	1.43	1.37
26	BB	812	C	C2'-C1'	6.62	1.60	1.53
26	BB	1177	G	N3-C4	6.62	1.40	1.35
26	BB	1555	G	C5-C4	6.62	1.43	1.38
1	AA	161	A	O3'-P	6.62	1.69	1.61
1	AA	844	G	C6-N1	6.62	1.44	1.39
26	BB	658	U	N1-C2	6.62	1.44	1.38
26	BB	811	U	C2-O2	6.62	1.28	1.22
26	BB	1793	C	N1-C2	6.62	1.46	1.40
26	BB	1903	G	N3-C4	6.62	1.40	1.35
26	BB	2345	G	P-O5'	6.62	1.66	1.59
26	BB	2448	A	N7-C5	6.62	1.43	1.39
26	BB	381	G	C3'-C2'	6.62	1.60	1.52
26	BB	599	A	C3'-C2'	6.62	1.60	1.52
26	BB	1434	A	N9-C4	6.62	1.41	1.37
26	BB	2333	A	N1-C2	-6.62	1.28	1.34
1	AA	366	A	O3'-P	6.62	1.69	1.61
1	AA	937	A	C4'-O4'	-6.62	1.36	1.45
26	BB	674	G	N1-C2	6.62	1.43	1.37
26	BB	893	C	C2-O2	-6.62	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1512	C	C3'-C2'	6.62	1.60	1.52
1	AA	254	G	O3'-P	6.62	1.69	1.61
1	AA	550	G	N1-C2	6.62	1.43	1.37
26	BB	439	A	N9-C8	-6.62	1.32	1.37
26	BB	1238	G	N1-C2	6.62	1.43	1.37
26	BB	2593	U	C2-O2	6.62	1.28	1.22
1	AA	1075	U	P-O5'	6.62	1.66	1.59
1	AA	1078	U	C4-C5	6.62	1.49	1.43
1	AA	307	C	N3-C4	6.61	1.38	1.33
26	BB	319	G	C2'-C1'	-6.61	1.46	1.53
26	BB	806	C	O3'-P	6.61	1.69	1.61
26	BB	2621	G	N7-C5	-6.61	1.35	1.39
1	AA	785	G	O3'-P	6.61	1.69	1.61
25	BA	28	C	C2'-O2'	6.61	1.50	1.41
26	BB	2227	A	N3-C4	6.61	1.38	1.34
1	AA	106	C	C4-C5	6.61	1.48	1.43
1	AA	520	A	C5-C6	6.61	1.47	1.41
26	BB	1811	G	P-O5'	6.61	1.66	1.59
26	BB	1829	A	C6-N6	-6.61	1.28	1.33
26	BB	2661	G	C8-N7	-6.61	1.26	1.30
1	AA	667	G	C8-N7	-6.61	1.26	1.30
1	AA	1020	G	N1-C2	6.61	1.43	1.37
26	BB	1551	A	C5-C4	-6.61	1.34	1.38
26	BB	2437	G	N9-C8	6.61	1.42	1.37
1	AA	408	A	C4'-C3'	-6.61	1.45	1.53
26	BB	2027	G	N7-C5	-6.61	1.35	1.39
26	BB	2094	A	C5'-C4'	6.61	1.59	1.51
1	AA	241	G	P-O5'	6.61	1.66	1.59
3	AC	15	G	O3'-P	6.61	1.69	1.61
26	BB	101	A	C2'-O2'	6.61	1.50	1.41
26	BB	738	G	P-O5'	6.61	1.66	1.59
26	BB	1623	G	P-O5'	6.61	1.66	1.59
26	BB	2088	A	N7-C5	-6.61	1.35	1.39
26	BB	1916	A	C8-N7	-6.60	1.26	1.31
1	AA	1417	G	O3'-P	6.60	1.69	1.61
3	AC	51	C	C2'-C1'	6.60	1.60	1.53
10	AJ	108	ARG	NE-CZ	6.60	1.41	1.33
26	BB	608	A	C4'-O4'	-6.60	1.36	1.45
26	BB	1203	U	C4'-C3'	-6.60	1.45	1.53
26	BB	1351	C	O3'-P	-6.60	1.53	1.61
26	BB	1669	A	C5-C4	6.60	1.43	1.38
26	BB	1701	A	C4'-O4'	-6.60	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1824	G	C2-N3	6.60	1.38	1.32
26	BB	2005	A	N9-C8	6.60	1.43	1.37
26	BB	2689	U	C4'-C3'	6.60	1.60	1.53
26	BB	249	C	C4-C5	6.60	1.48	1.43
26	BB	989	G	N7-C5	6.60	1.43	1.39
26	BB	1158	C	C5-C6	6.60	1.39	1.34
26	BB	1842	G	C8-N7	-6.60	1.26	1.30
1	AA	672	U	C2-N3	-6.60	1.33	1.37
1	AA	819	A	O5'-C5'	6.60	1.55	1.44
1	AA	1395	C	N3-C4	6.60	1.38	1.33
25	BA	49	C	C5-C6	6.60	1.39	1.34
26	BB	121	G	C2-N3	6.60	1.38	1.32
26	BB	869	G	P-O5'	6.60	1.66	1.59
26	BB	1386	C	C2-O2	-6.60	1.18	1.24
26	BB	1466	U	C2-N3	6.60	1.42	1.37
1	AA	1171	A	C2'-O2'	-6.60	1.33	1.41
26	BB	620	G	N3-C4	6.60	1.40	1.35
26	BB	1569	A	N3-C4	6.60	1.38	1.34
26	BB	2117	A	N3-C4	6.60	1.38	1.34
1	AA	1483	A	N7-C5	-6.60	1.35	1.39
26	BB	190	A	C4'-O4'	-6.60	1.36	1.45
26	BB	1773	A	C8-N7	-6.60	1.26	1.31
1	AA	309	A	C5-C4	-6.59	1.34	1.38
1	AA	711	G	C2-N2	-6.59	1.27	1.34
1	AA	726	C	P-O5'	6.59	1.66	1.59
1	AA	1050	G	N9-C8	-6.59	1.33	1.37
26	BB	666	A	C5-C4	-6.59	1.34	1.38
26	BB	684	G	C4'-O4'	-6.59	1.36	1.45
26	BB	1345	C	C5'-C4'	6.59	1.59	1.51
26	BB	2279	G	O3'-P	6.59	1.69	1.61
26	BB	668	A	C4'-C3'	6.59	1.60	1.53
26	BB	1237	A	N3-C4	6.59	1.38	1.34
1	AA	438	U	C2-N3	6.59	1.42	1.37
1	AA	769	G	N9-C4	6.59	1.43	1.38
1	AA	1256	A	C6-N6	-6.59	1.28	1.33
1	AA	1354	U	C4'-O4'	-6.59	1.36	1.45
26	BB	127	A	N9-C4	-6.59	1.33	1.37
26	BB	830	G	N3-C4	6.59	1.40	1.35
26	BB	1667	G	N1-C2	6.59	1.43	1.37
26	BB	2035	G	C5'-C4'	-6.59	1.43	1.51
26	BB	2487	G	C8-N7	-6.59	1.26	1.30
26	BB	2745	C	C3'-C2'	6.59	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	30	U	C3'-O3'	-6.59	1.32	1.42
1	AA	413	G	C5'-C4'	6.59	1.59	1.51
26	BB	1168	G	N3-C4	-6.59	1.30	1.35
26	BB	2625	G	N3-C4	6.59	1.40	1.35
26	BB	2749	A	N7-C5	6.59	1.43	1.39
1	AA	1244	G	N7-C5	-6.59	1.35	1.39
26	BB	164	C	C4'-O4'	-6.59	1.36	1.45
26	BB	592	A	N9-C4	-6.59	1.33	1.37
26	BB	2140	G	C4'-C3'	6.59	1.60	1.53
26	BB	2167	U	C5-C6	6.59	1.40	1.34
26	BB	2840	C	C3'-C2'	6.59	1.60	1.52
1	AA	782	A	O3'-P	6.58	1.69	1.61
26	BB	942	G	N3-C4	6.58	1.40	1.35
1	AA	833	G	N7-C5	-6.58	1.35	1.39
1	AA	937	A	C6-N6	6.58	1.39	1.33
1	AA	942	G	C6-N1	6.58	1.44	1.39
1	AA	325	A	N7-C5	6.58	1.43	1.39
1	AA	759	A	C5-C6	-6.58	1.35	1.41
1	AA	864	A	C5-C4	6.58	1.43	1.38
26	BB	1346	G	N3-C4	6.58	1.40	1.35
26	BB	2496	C	N1-C6	6.58	1.41	1.37
1	AA	133	U	N1-C2	6.58	1.44	1.38
2	AB	40	C	C2-N3	6.58	1.41	1.35
1	AA	1143	G	C2-N2	-6.58	1.27	1.34
26	BB	10	A	N9-C4	6.58	1.41	1.37
26	BB	1054	A	C3'-O3'	-6.58	1.32	1.42
26	BB	1783	A	N3-C4	6.58	1.38	1.34
26	BB	716	A	N7-C5	6.58	1.43	1.39
26	BB	2075	U	O3'-P	-6.58	1.53	1.61
26	BB	2459	A	C3'-O3'	-6.58	1.32	1.42
26	BB	2582	G	C8-N7	-6.58	1.27	1.30
1	AA	354	G	N3-C4	-6.58	1.30	1.35
1	AA	691	G	C5-C4	6.58	1.43	1.38
1	AA	848	C	O3'-P	6.58	1.69	1.61
26	BB	523	C	C5-C6	6.58	1.39	1.34
26	BB	1038	G	N3-C4	6.58	1.40	1.35
26	BB	2740	A	N7-C5	6.58	1.43	1.39
1	AA	733	G	C5-C4	6.57	1.43	1.38
26	BB	1533	C	P-O5'	6.57	1.66	1.59
26	BB	2502	G	N3-C4	6.57	1.40	1.35
26	BB	585	G	C6-N1	-6.57	1.34	1.39
1	AA	33	A	C6-N1	6.57	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	178	C	C2-O2	-6.57	1.18	1.24
1	AA	865	A	C5-C6	6.57	1.47	1.41
1	AA	1182	G	N9-C8	6.57	1.42	1.37
26	BB	1194	A	C4'-O4'	-6.57	1.37	1.45
26	BB	2254	C	C2'-O2'	6.57	1.50	1.41
4	AD	7	G	N9-C4	6.57	1.43	1.38
1	AA	1292	G	N9-C4	6.57	1.43	1.38
26	BB	904	G	P-O5'	6.57	1.66	1.59
26	BB	1798	U	N1-C6	6.57	1.43	1.38
26	BB	2660	A	C5'-C4'	6.57	1.59	1.51
26	BB	2760	C	C4-C5	-6.57	1.37	1.43
31	BG	93	GLU	CD-OE1	-6.57	1.18	1.25
41	BQ	112	GLU	CG-CD	6.57	1.61	1.51
1	AA	922	G	N3-C4	6.57	1.40	1.35
26	BB	1207	C	N1-C6	6.57	1.41	1.37
26	BB	1726	C	N1-C6	6.57	1.41	1.37
26	BB	1739	A	P-O5'	6.57	1.66	1.59
26	BB	1812	U	C5'-C4'	6.57	1.59	1.51
26	BB	2308	G	N9-C8	6.57	1.42	1.37
1	AA	499	A	C5'-C4'	6.56	1.59	1.51
26	BB	2218	G	P-O5'	6.56	1.66	1.59
26	BB	2725	A	N9-C4	6.56	1.41	1.37
1	AA	36	C	C2-N3	6.56	1.41	1.35
1	AA	116	A	N9-C4	6.56	1.41	1.37
1	AA	266	G	C5-C4	6.56	1.43	1.38
1	AA	1465	A	C8-N7	-6.56	1.26	1.31
26	BB	1298	C	P-O5'	6.56	1.66	1.59
1	AA	73	C	C5-C6	6.56	1.39	1.34
1	AA	74	A	C8-N7	-6.56	1.26	1.31
1	AA	653	U	C2-N3	6.56	1.42	1.37
2	AB	22	G	C5'-C4'	6.56	1.59	1.51
25	BA	12	C	C5-C6	6.56	1.39	1.34
26	BB	1125	G	N3-C4	6.56	1.40	1.35
26	BB	2318	G	C2-N3	6.56	1.38	1.32
1	AA	577	G	C8-N7	-6.56	1.27	1.30
26	BB	572	A	N7-C5	6.56	1.43	1.39
26	BB	2554	U	C4-C5	6.56	1.49	1.43
26	BB	2644	G	C4'-C3'	-6.56	1.46	1.53
26	BB	136	G	P-O5'	6.56	1.66	1.59
1	AA	358	U	C3'-C2'	-6.55	1.45	1.52
26	BB	1442	U	C2'-C1'	6.55	1.60	1.53
26	BB	2042	A	O3'-P	6.55	1.69	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2532	G	N7-C5	-6.55	1.35	1.39
26	BB	324	A	C5-C6	6.55	1.47	1.41
26	BB	708	G	N1-C2	6.55	1.43	1.37
26	BB	1296	G	N9-C8	-6.55	1.33	1.37
26	BB	1986	C	P-O5'	6.55	1.66	1.59
26	BB	2738	A	N7-C5	6.55	1.43	1.39
26	BB	2757	A	C4'-C3'	6.55	1.60	1.53
1	AA	142	G	N9-C4	6.55	1.43	1.38
1	AA	262	A	C5-C6	6.55	1.47	1.41
1	AA	1222	G	C3'-C2'	6.55	1.60	1.52
1	AA	1274	A	C6-N1	6.55	1.40	1.35
1	AA	1444	U	C5'-C4'	6.55	1.59	1.51
26	BB	58	G	N3-C4	6.55	1.40	1.35
26	BB	1652	A	N9-C8	6.55	1.43	1.37
26	BB	1687	G	N7-C5	-6.55	1.35	1.39
1	AA	22	G	C2-N3	6.55	1.38	1.32
1	AA	1350	A	C8-N7	-6.55	1.26	1.31
4	AD	2	G	C6-N1	6.55	1.44	1.39
26	BB	160	A	C5'-C4'	6.55	1.59	1.51
26	BB	1030	C	N3-C4	6.55	1.38	1.33
26	BB	2441	U	C2'-C1'	6.55	1.60	1.53
26	BB	2721	A	N3-C4	6.55	1.38	1.34
1	AA	131	A	O3'-P	6.55	1.69	1.61
1	AA	204	G	C6-N1	-6.55	1.34	1.39
1	AA	206	C	C2'-C1'	6.55	1.60	1.53
1	AA	326	G	C4'-O4'	-6.55	1.37	1.45
25	BA	21	G	N7-C5	6.55	1.43	1.39
26	BB	314	C	C5-C6	6.55	1.39	1.34
26	BB	380	G	P-O5'	-6.55	1.53	1.59
26	BB	653	U	N1-C6	-6.55	1.32	1.38
26	BB	1238	G	C5-C4	-6.55	1.33	1.38
26	BB	2842	G	C8-N7	6.55	1.34	1.30
1	AA	849	G	C5'-C4'	6.54	1.59	1.51
26	BB	367	G	C4'-O4'	-6.54	1.37	1.45
1	AA	76	G	C6-N1	-6.54	1.34	1.39
1	AA	604	G	C6-N1	6.54	1.44	1.39
1	AA	1256	A	N9-C4	6.54	1.41	1.37
1	AA	1406	U	P-O5'	6.54	1.66	1.59
25	BA	20	G	C2-N3	6.54	1.38	1.32
26	BB	77	G	C2-N3	6.54	1.38	1.32
26	BB	886	A	C3'-C2'	6.54	1.60	1.52
26	BB	1862	G	N9-C4	6.54	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	929	G	C5'-C4'	6.54	1.59	1.51
26	BB	1568	G	C5'-C4'	6.54	1.59	1.51
26	BB	1652	A	C6-N1	-6.54	1.30	1.35
26	BB	2290	G	P-O5'	6.54	1.66	1.59
1	AA	848	C	N3-C4	6.54	1.38	1.33
26	BB	404	A	C5-C4	-6.54	1.34	1.38
26	BB	233	A	C8-N7	-6.54	1.26	1.31
26	BB	302	C	C2'-O2'	6.54	1.50	1.41
26	BB	2012	G	C6-N1	6.54	1.44	1.39
1	AA	1143	G	N1-C2	6.54	1.43	1.37
26	BB	384	A	O3'-P	6.54	1.69	1.61
26	BB	1289	C	C2-N3	6.54	1.41	1.35
26	BB	1585	C	C2-N3	6.54	1.41	1.35
1	AA	230	G	N9-C4	6.54	1.43	1.38
1	AA	355	C	C5'-C4'	6.54	1.59	1.51
1	AA	615	G	N9-C8	6.54	1.42	1.37
26	BB	841	G	N7-C5	6.54	1.43	1.39
26	BB	2200	C	C2'-C1'	-6.54	1.46	1.53
26	BB	2365	G	C5-C4	-6.54	1.33	1.38
26	BB	2532	G	C6-N1	-6.54	1.34	1.39
26	BB	2893	A	N9-C8	6.54	1.43	1.37
1	AA	418	C	C4'-O4'	-6.53	1.37	1.45
1	AA	883	C	C4-N4	6.53	1.39	1.33
1	AA	1233	G	C5'-C4'	6.53	1.59	1.51
26	BB	55	G	N1-C2	6.53	1.43	1.37
26	BB	406	G	P-O5'	6.53	1.66	1.59
26	BB	701	G	N9-C8	6.53	1.42	1.37
26	BB	1605	C	N1-C6	6.53	1.41	1.37
1	AA	1297	G	C2-N3	6.53	1.38	1.32
26	BB	477	A	N9-C8	6.53	1.43	1.37
26	BB	1118	C	C5'-C4'	6.53	1.59	1.51
26	BB	2358	A	C6-N1	-6.53	1.30	1.35
26	BB	2563	U	N1-C6	-6.53	1.32	1.38
1	AA	86	G	C5-C4	-6.53	1.33	1.38
26	BB	921	C	C2-N3	6.53	1.41	1.35
26	BB	2376	A	N9-C8	6.53	1.43	1.37
1	AA	474	G	N7-C5	6.53	1.43	1.39
26	BB	569	U	C2-O2	6.53	1.28	1.22
26	BB	1936	A	P-O5'	6.53	1.66	1.59
26	BB	1958	C	C4-C5	6.53	1.48	1.43
26	BB	2820	A	N9-C4	6.53	1.41	1.37
1	AA	694	A	N3-C4	6.53	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	663	G	N1-C2	6.53	1.43	1.37
26	BB	1565	C	C4'-O4'	-6.53	1.37	1.45
26	BB	2741	A	C6-N1	-6.53	1.30	1.35
1	AA	372	C	C5'-C4'	6.52	1.59	1.51
26	BB	2581	G	N9-C8	-6.52	1.33	1.37
1	AA	289	G	N9-C8	-6.52	1.33	1.37
1	AA	294	U	O3'-P	6.52	1.69	1.61
4	AD	19	G	P-O5'	6.52	1.66	1.59
26	BB	1147	A	N9-C4	-6.52	1.33	1.37
26	BB	1209	U	C4-C5	6.52	1.49	1.43
26	BB	1529	G	C5'-C4'	6.52	1.59	1.51
26	BB	2823	A	C4'-C3'	-6.52	1.46	1.53
26	BB	851	C	C2-O2	-6.52	1.18	1.24
26	BB	1633	G	N9-C4	6.52	1.43	1.38
1	AA	139	A	O3'-P	6.52	1.69	1.61
1	AA	337	G	N3-C4	6.52	1.40	1.35
1	AA	530	G	N3-C4	6.52	1.40	1.35
1	AA	769	G	C5-C4	-6.52	1.33	1.38
26	BB	35	G	N9-C4	6.52	1.43	1.38
26	BB	50	U	C4'-O4'	-6.52	1.37	1.45
26	BB	124	G	N1-C2	6.52	1.43	1.37
26	BB	1053	C	C2'-O2'	6.52	1.50	1.41
26	BB	1831	G	C6-O6	-6.52	1.18	1.24
26	BB	308	G	N7-C5	6.52	1.43	1.39
26	BB	2712	C	N3-C4	-6.52	1.29	1.33
26	BB	2833	U	C4'-C3'	6.52	1.60	1.53
1	AA	50	A	C5'-C4'	6.51	1.59	1.51
26	BB	928	A	C6-N6	6.51	1.39	1.33
26	BB	1746	A	N9-C4	-6.51	1.33	1.37
26	BB	1778	U	C2'-C1'	6.51	1.60	1.53
26	BB	2279	G	C6-N1	6.51	1.44	1.39
26	BB	2855	C	P-O5'	6.51	1.66	1.59
1	AA	295	C	P-O5'	6.51	1.66	1.59
1	AA	702	A	P-O5'	6.51	1.66	1.59
26	BB	739	A	P-O5'	6.51	1.66	1.59
26	BB	1207	C	C5-C6	6.51	1.39	1.34
1	AA	894	G	C5-C6	6.51	1.48	1.42
1	AA	1287	A	P-O5'	-6.51	1.53	1.59
26	BB	2270	A	N9-C4	6.51	1.41	1.37
1	AA	517	G	C4'-O4'	-6.51	1.37	1.45
1	AA	603	U	C4-C5	6.51	1.49	1.43
1	AA	667	G	C2-N3	6.51	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1457	G	N9-C4	6.51	1.43	1.38
3	AC	52	U	C4-C5	6.51	1.49	1.43
26	BB	884	U	C2-N3	6.51	1.42	1.37
26	BB	1885	A	C8-N7	-6.51	1.26	1.31
26	BB	2505	G	P-O5'	6.51	1.66	1.59
1	AA	768	A	O3'-P	6.51	1.69	1.61
26	BB	1109	C	C2-N3	6.51	1.41	1.35
26	BB	2353	G	N7-C5	-6.51	1.35	1.39
1	AA	1230	C	C3'-C2'	-6.51	1.45	1.52
1	AA	1258	G	N1-C2	6.51	1.43	1.37
1	AA	1291	U	N3-C4	6.50	1.44	1.38
26	BB	659	G	C3'-C2'	6.50	1.60	1.52
26	BB	886	A	N7-C5	6.50	1.43	1.39
26	BB	1274	A	C5-C6	-6.50	1.35	1.41
26	BB	1938	A	C6-N1	-6.50	1.30	1.35
26	BB	2741	A	C5'-C4'	6.50	1.59	1.51
1	AA	843	U	N1-C2	6.50	1.44	1.38
26	BB	453	A	N3-C4	6.50	1.38	1.34
26	BB	705	A	C5-C4	6.50	1.43	1.38
26	BB	1474	U	C4-C5	6.50	1.49	1.43
26	BB	1608	A	N7-C5	-6.50	1.35	1.39
1	AA	423	G	N1-C2	6.50	1.43	1.37
4	AD	18	U	O3'-P	6.50	1.69	1.61
25	BA	25	U	C2-N3	6.50	1.42	1.37
26	BB	1157	G	O3'-P	6.50	1.69	1.61
26	BB	2224	G	C5-C4	-6.50	1.33	1.38
26	BB	2352	A	C6-N1	6.50	1.40	1.35
26	BB	2839	G	N7-C5	-6.50	1.35	1.39
1	AA	1387	G	C6-N1	6.50	1.44	1.39
25	BA	116	G	N9-C8	-6.50	1.33	1.37
26	BB	1131	G	C4'-O4'	-6.50	1.37	1.45
26	BB	2094	A	O3'-P	6.50	1.69	1.61
1	AA	51	A	C6-N1	6.50	1.40	1.35
1	AA	334	C	P-O5'	-6.50	1.53	1.59
1	AA	808	C	O3'-P	6.50	1.69	1.61
1	AA	926	G	O3'-P	6.50	1.69	1.61
1	AA	1169	A	C4'-O4'	-6.50	1.37	1.45
26	BB	2853	C	C2-O2	-6.50	1.18	1.24
1	AA	1008	U	C4'-O4'	-6.50	1.37	1.45
4	AD	19	G	C2-N2	-6.50	1.28	1.34
25	BA	115	A	N1-C2	6.50	1.40	1.34
26	BB	418	C	C5'-C4'	6.50	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1433	A	C5-C4	-6.50	1.34	1.38
26	BB	2839	G	C8-N7	6.50	1.34	1.30
26	BB	1087	G	C2'-O2'	6.50	1.50	1.41
1	AA	540	G	C2'-C1'	6.49	1.60	1.53
1	AA	554	A	P-O5'	6.49	1.66	1.59
1	AA	897	C	C5-C6	6.49	1.39	1.34
2	AB	58	A	C4'-O4'	-6.49	1.37	1.45
26	BB	88	G	P-O5'	-6.49	1.53	1.59
26	BB	885	C	C4'-C3'	-6.49	1.46	1.53
26	BB	2303	G	C8-N7	-6.49	1.27	1.30
26	BB	1644	C	N3-C4	6.49	1.38	1.33
26	BB	556	A	N7-C5	-6.49	1.35	1.39
26	BB	1966	A	N9-C8	-6.49	1.32	1.37
26	BB	2033	A	C6-N6	6.49	1.39	1.33
26	BB	2115	G	C5'-C4'	6.49	1.59	1.51
26	BB	2122	U	C4-C5	6.49	1.49	1.43
1	AA	20	U	C4'-O4'	-6.49	1.37	1.45
4	AD	5	G	O3'-P	-6.49	1.53	1.61
26	BB	1411	U	O3'-P	6.49	1.69	1.61
1	AA	733	G	N9-C8	6.49	1.42	1.37
1	AA	1108	G	C6-N1	6.49	1.44	1.39
1	AA	1447	A	N9-C4	6.49	1.41	1.37
3	AC	58	C	C2-O2	-6.49	1.18	1.24
26	BB	1858	A	N9-C8	-6.49	1.32	1.37
1	AA	1426	G	C6-N1	6.49	1.44	1.39
2	AB	14	A	C5-C4	-6.49	1.34	1.38
26	BB	240	C	C3'-C2'	6.49	1.60	1.52
26	BB	549	G	N9-C8	6.49	1.42	1.37
26	BB	1421	G	N9-C8	6.49	1.42	1.37
26	BB	1912	A	C8-N7	-6.49	1.27	1.31
26	BB	2288	A	C6-N1	6.49	1.40	1.35
26	BB	7	G	N7-C5	6.48	1.43	1.39
26	BB	2603	G	C2-N3	6.48	1.38	1.32
1	AA	665	A	N1-C2	6.48	1.40	1.34
1	AA	1324	A	C6-N6	-6.48	1.28	1.33
3	AC	26	U	N3-C4	6.48	1.44	1.38
25	BA	11	C	N3-C4	6.48	1.38	1.33
26	BB	244	A	C4'-C3'	6.48	1.60	1.53
26	BB	514	A	C5'-C4'	6.48	1.59	1.51
26	BB	1014	A	C8-N7	-6.48	1.27	1.31
26	BB	1555	G	N3-C4	6.48	1.40	1.35
26	BB	1965	C	N1-C6	6.48	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2415	G	N1-C2	6.48	1.43	1.37
1	AA	107	G	C5'-C4'	6.48	1.59	1.51
1	AA	947	G	P-O5'	6.48	1.66	1.59
1	AA	1085	U	N1-C6	-6.48	1.32	1.38
1	AA	1095	U	C3'-C2'	6.48	1.60	1.52
26	BB	1080	A	C4'-O4'	-6.48	1.37	1.45
26	BB	1920	C	C2'-C1'	6.48	1.60	1.53
26	BB	2155	U	C5'-C4'	6.48	1.59	1.51
1	AA	830	G	C6-N1	6.48	1.44	1.39
1	AA	1165	U	C5-C6	6.48	1.40	1.34
25	BA	112	G	N1-C2	6.48	1.43	1.37
26	BB	2631	G	C3'-C2'	-6.48	1.45	1.52
1	AA	806	C	P-O5'	6.48	1.66	1.59
1	AA	961	U	C4'-O4'	-6.48	1.37	1.45
26	BB	539	G	N7-C5	-6.48	1.35	1.39
26	BB	979	A	C5-C4	-6.48	1.34	1.38
26	BB	1666	G	C2-N3	6.48	1.38	1.32
1	AA	211	G	N9-C8	6.48	1.42	1.37
1	AA	526	C	C2-N3	6.48	1.41	1.35
26	BB	783	A	C5-C4	-6.48	1.34	1.38
26	BB	1831	G	N3-C4	6.48	1.40	1.35
1	AA	1143	G	N9-C8	-6.47	1.33	1.37
26	BB	2177	C	C4-N4	6.47	1.39	1.33
26	BB	2554	U	N1-C6	-6.47	1.32	1.38
1	AA	1092	A	N3-C4	6.47	1.38	1.34
26	BB	140	C	N3-C4	6.47	1.38	1.33
26	BB	147	C	C4'-O4'	-6.47	1.37	1.45
26	BB	665	U	N1-C2	6.47	1.44	1.38
26	BB	2545	G	C4'-C3'	-6.47	1.46	1.53
1	AA	1244	G	C2'-C1'	-6.47	1.46	1.53
25	BA	81	G	P-O5'	6.47	1.66	1.59
26	BB	940	G	C6-N1	-6.47	1.35	1.39
26	BB	2311	A	N7-C5	-6.47	1.35	1.39
26	BB	1267	U	C2-N3	6.47	1.42	1.37
26	BB	2330	G	N9-C4	-6.47	1.32	1.38
26	BB	2825	G	N7-C5	6.47	1.43	1.39
1	AA	1525	G	N9-C8	6.47	1.42	1.37
1	AA	152	A	C8-N7	-6.47	1.27	1.31
2	AB	19	G	C4'-C3'	6.47	1.60	1.53
2	AB	43	G	N7-C5	6.47	1.43	1.39
26	BB	2413	G	N3-C4	6.47	1.40	1.35
1	AA	47	C	C5'-C4'	6.46	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	646	G	C2-N3	6.46	1.38	1.32
26	BB	1822	C	P-O5'	6.46	1.66	1.59
26	BB	2374	C	C4'-O4'	-6.46	1.37	1.45
26	BB	2735	G	N3-C4	6.46	1.40	1.35
26	BB	756	A	C4'-O4'	-6.46	1.37	1.45
1	AA	1456	A	N7-C5	6.46	1.43	1.39
3	AC	39	U	P-O5'	6.46	1.66	1.59
26	BB	188	G	C2-N3	6.46	1.38	1.32
26	BB	371	A	C5'-C4'	6.46	1.59	1.51
26	BB	1441	G	C8-N7	-6.46	1.27	1.30
26	BB	1527	G	N9-C8	6.46	1.42	1.37
26	BB	2133	G	C8-N7	-6.46	1.27	1.30
26	BB	2369	A	C6-N6	6.46	1.39	1.33
26	BB	2409	G	O3'-P	6.46	1.69	1.61
26	BB	2819	G	N3-C4	-6.46	1.30	1.35
4	AD	48	U	O3'-P	6.46	1.69	1.61
26	BB	1005	C	C5-C6	6.46	1.39	1.34
1	AA	643	C	O3'-P	-6.46	1.53	1.61
4	AD	27	G	C3'-C2'	-6.46	1.45	1.52
26	BB	353	C	C5'-C4'	6.46	1.59	1.51
26	BB	571	U	N1-C2	6.46	1.44	1.38
26	BB	755	U	P-O5'	6.46	1.66	1.59
1	AA	247	G	C6-N1	6.46	1.44	1.39
1	AA	945	G	C8-N7	6.46	1.34	1.30
1	AA	1312	G	N3-C4	6.46	1.40	1.35
1	AA	1522	U	C4-C5	6.46	1.49	1.43
3	AC	19	A	C8-N7	-6.46	1.27	1.31
26	BB	817	C	O3'-P	6.46	1.68	1.61
26	BB	1263	U	C5'-C4'	6.46	1.59	1.51
26	BB	2049	G	N1-C2	6.46	1.43	1.37
1	AA	1140	C	C4-N4	-6.46	1.28	1.33
1	AA	1515	G	N9-C8	6.46	1.42	1.37
26	BB	81	G	P-O5'	6.46	1.66	1.59
1	AA	697	U	C4'-O4'	-6.45	1.37	1.45
1	AA	1319	A	N9-C8	6.45	1.43	1.37
26	BB	424	G	C5-C6	6.45	1.48	1.42
26	BB	1847	A	C6-N1	-6.45	1.31	1.35
26	BB	1944	U	C5-C6	6.45	1.40	1.34
26	BB	2856	A	C8-N7	6.45	1.36	1.31
1	AA	410	G	C5-C4	-6.45	1.33	1.38
26	BB	482	A	C8-N7	-6.45	1.27	1.31
26	BB	923	G	N1-C2	6.45	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2547	A	N9-C4	6.45	1.41	1.37
26	BB	2785	C	C4'-C3'	6.45	1.60	1.53
1	AA	41	G	C2-N3	6.45	1.38	1.32
26	BB	844	A	N9-C4	-6.45	1.33	1.37
26	BB	1165	A	C8-N7	-6.45	1.27	1.31
26	BB	2317	A	P-O5'	6.45	1.66	1.59
1	AA	809	G	C2-N3	6.45	1.38	1.32
1	AA	1189	U	N1-C2	6.45	1.44	1.38
1	AA	1501	C	C5'-C4'	6.45	1.59	1.51
26	BB	1919	A	N7-C5	6.45	1.43	1.39
1	AA	762	U	C5-C6	6.45	1.40	1.34
1	AA	900	A	C5-C4	-6.45	1.34	1.38
26	BB	178	G	C4'-O4'	-6.45	1.37	1.45
26	BB	1685	C	C5-C6	6.45	1.39	1.34
26	BB	2036	C	C4-C5	6.45	1.48	1.43
28	BD	100	ARG	NE-CZ	6.45	1.41	1.33
1	AA	301	G	C8-N7	-6.44	1.27	1.30
25	BA	90	C	O3'-P	6.44	1.68	1.61
27	BC	76	ALA	CA-CB	6.44	1.66	1.52
1	AA	404	G	C2'-O2'	-6.44	1.33	1.41
1	AA	937	A	O3'-P	6.44	1.68	1.61
1	AA	1204	A	N9-C4	-6.44	1.33	1.37
26	BB	508	A	N9-C4	6.44	1.41	1.37
26	BB	2411	A	C8-N7	-6.44	1.27	1.31
26	BB	2460	U	P-O5'	6.44	1.66	1.59
26	BB	443	A	C4'-O4'	-6.44	1.37	1.45
26	BB	676	A	C6-N1	6.44	1.40	1.35
26	BB	764	A	C4'-C3'	6.44	1.60	1.53
26	BB	879	G	N1-C2	6.44	1.43	1.37
26	BB	1381	G	P-O5'	6.44	1.66	1.59
26	BB	965	C	C5'-C4'	6.44	1.59	1.51
26	BB	1931	U	P-O5'	6.44	1.66	1.59
1	AA	376	G	C6-N1	6.44	1.44	1.39
1	AA	1226	C	N3-C4	6.44	1.38	1.33
26	BB	384	A	O4'-C1'	6.44	1.50	1.41
26	BB	585	G	C4'-O4'	-6.44	1.37	1.45
26	BB	1201	U	C3'-C2'	-6.44	1.45	1.52
26	BB	1601	G	C5'-C4'	6.44	1.59	1.51
26	BB	2289	G	C5-C4	6.44	1.42	1.38
1	AA	302	G	P-O5'	6.43	1.66	1.59
1	AA	825	A	N9-C8	-6.43	1.32	1.37
1	AA	1202	U	N1-C6	6.43	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1503	A	C5-C4	6.43	1.43	1.38
26	BB	142	A	C4'-C3'	6.43	1.60	1.53
26	BB	1868	C	C5-C6	6.43	1.39	1.34
26	BB	2102	G	N3-C4	6.43	1.40	1.35
1	AA	359	G	C6-N1	-6.43	1.35	1.39
1	AA	1337	G	N7-C5	6.43	1.43	1.39
26	BB	103	A	C4'-O4'	-6.43	1.37	1.45
26	BB	168	G	C6-N1	-6.43	1.35	1.39
26	BB	206	U	C4-C5	6.43	1.49	1.43
26	BB	1352	U	C3'-C2'	6.43	1.60	1.52
26	BB	2295	C	N1-C6	6.43	1.41	1.37
26	BB	2412	A	N7-C5	-6.43	1.35	1.39
26	BB	2485	G	P-O5'	6.43	1.66	1.59
26	BB	2525	G	P-O5'	6.43	1.66	1.59
26	BB	2590	A	C8-N7	6.43	1.36	1.31
1	AA	628	G	C4'-C3'	-6.43	1.46	1.53
2	AB	22	G	C3'-O3'	6.43	1.51	1.42
1	AA	1300	G	C4'-C3'	-6.43	1.46	1.53
25	BA	114	C	N1-C6	6.43	1.41	1.37
26	BB	591	U	N1-C2	6.43	1.44	1.38
26	BB	926	G	P-O5'	6.43	1.66	1.59
26	BB	2670	A	C6-N6	6.43	1.39	1.33
26	BB	2697	G	N3-C4	-6.43	1.30	1.35
26	BB	2771	C	C4-C5	6.43	1.48	1.43
1	AA	1412	C	C5'-C4'	6.43	1.59	1.51
26	BB	2258	C	C5-C6	6.43	1.39	1.34
1	AA	101	A	P-O5'	6.43	1.66	1.59
1	AA	377	G	N7-C5	-6.43	1.35	1.39
1	AA	601	G	P-O5'	6.43	1.66	1.59
1	AA	605	U	C2-N3	6.43	1.42	1.37
1	AA	706	A	P-O5'	6.43	1.66	1.59
1	AA	920	U	C2-N3	6.43	1.42	1.37
1	AA	1423	G	N3-C4	6.43	1.40	1.35
26	BB	154	U	C4'-O4'	-6.43	1.37	1.45
26	BB	290	U	C3'-C2'	6.43	1.60	1.52
26	BB	704	G	C5-C4	-6.43	1.33	1.38
26	BB	763	G	N9-C8	6.43	1.42	1.37
26	BB	832	U	C5-C6	6.43	1.40	1.34
26	BB	2891	U	O3'-P	6.43	1.68	1.61
1	AA	786	G	O3'-P	6.42	1.68	1.61
1	AA	852	G	P-O5'	6.42	1.66	1.59
1	AA	1043	G	N1-C2	6.42	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	AC	52	U	C2-N3	6.42	1.42	1.37
26	BB	105	C	P-O5'	6.42	1.66	1.59
26	BB	136	G	N3-C4	6.42	1.40	1.35
26	BB	298	G	P-O5'	6.42	1.66	1.59
26	BB	2238	G	N3-C4	6.42	1.40	1.35
26	BB	2886	A	N1-C2	6.42	1.40	1.34
26	BB	443	A	C5'-C4'	6.42	1.59	1.51
26	BB	479	A	N7-C5	6.42	1.43	1.39
26	BB	798	G	N3-C4	6.42	1.40	1.35
26	BB	1000	A	C6-N1	-6.42	1.31	1.35
26	BB	1485	U	N1-C2	6.42	1.44	1.38
26	BB	2734	A	P-O5'	6.42	1.66	1.59
1	AA	1110	A	O3'-P	6.42	1.68	1.61
26	BB	1900	A	N3-C4	6.42	1.38	1.34
26	BB	1992	G	C4'-O4'	-6.42	1.37	1.45
26	BB	2108	A	N3-C4	6.42	1.38	1.34
26	BB	2500	U	C4-C5	6.42	1.49	1.43
26	BB	2807	U	P-O5'	6.42	1.66	1.59
1	AA	930	C	N3-C4	6.42	1.38	1.33
1	AA	1437	A	C6-N1	6.42	1.40	1.35
26	BB	2073	C	C5-C6	6.42	1.39	1.34
26	BB	2128	G	N7-C5	6.42	1.43	1.39
1	AA	269	C	C2'-C1'	-6.42	1.46	1.53
1	AA	629	A	C2'-C1'	-6.42	1.46	1.53
1	AA	902	G	N9-C8	-6.42	1.33	1.37
25	BA	44	G	N7-C5	-6.42	1.35	1.39
26	BB	1224	U	C5-C6	6.42	1.40	1.34
26	BB	2562	U	P-O5'	6.42	1.66	1.59
4	AD	71	G	N3-C4	6.42	1.40	1.35
26	BB	1087	G	N7-C5	6.42	1.43	1.39
26	BB	1508	A	C4'-O4'	-6.42	1.37	1.45
26	BB	2015	A	C4'-O4'	-6.42	1.37	1.45
26	BB	2479	U	N1-C2	6.42	1.44	1.38
1	AA	742	G	C6-N1	6.42	1.44	1.39
26	BB	1165	A	N9-C4	-6.42	1.34	1.37
1	AA	93	U	C2-N3	6.41	1.42	1.37
1	AA	626	G	C2-N3	6.41	1.37	1.32
3	AC	13	A	O4'-C1'	6.41	1.50	1.41
26	BB	945	A	O4'-C1'	-6.41	1.33	1.41
26	BB	1433	A	P-O5'	6.41	1.66	1.59
26	BB	1718	G	C6-N1	6.41	1.44	1.39
26	BB	325	G	N1-C2	6.41	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2096	C	N1-C6	-6.41	1.33	1.37
1	AA	114	U	P-O5'	6.41	1.66	1.59
1	AA	1074	G	O3'-P	6.41	1.68	1.61
1	AA	1493	A	N9-C4	6.41	1.41	1.37
26	BB	713	G	C6-N1	-6.41	1.35	1.39
26	BB	1176	U	C4-C5	6.41	1.49	1.43
26	BB	2451	A	C4'-O4'	-6.41	1.37	1.45
26	BB	2480	C	C4-C5	6.41	1.48	1.43
26	BB	2619	C	P-O5'	6.41	1.66	1.59
1	AA	1039	G	C5-C6	6.41	1.48	1.42
26	BB	89	A	N3-C4	6.41	1.38	1.34
26	BB	161	A	N1-C2	-6.41	1.28	1.34
26	BB	257	C	P-O5'	6.41	1.66	1.59
26	BB	277	G	C4'-O4'	-6.41	1.37	1.45
26	BB	397	U	C5-C6	6.41	1.40	1.34
26	BB	892	A	C5'-C4'	6.41	1.59	1.51
26	BB	1504	A	N9-C8	-6.41	1.32	1.37
26	BB	2303	G	N9-C4	6.41	1.43	1.38
26	BB	2897	U	C4-C5	6.41	1.49	1.43
26	BB	2902	C	N1-C6	6.41	1.41	1.37
1	AA	263	A	O3'-P	6.41	1.68	1.61
26	BB	166	U	O3'-P	6.41	1.68	1.61
26	BB	833	A	O3'-P	6.41	1.68	1.61
26	BB	2005	A	C4'-O4'	-6.41	1.37	1.45
26	BB	2301	C	N1-C2	6.41	1.46	1.40
1	AA	129	A	P-O5'	6.41	1.66	1.59
1	AA	1342	C	N1-C2	6.41	1.46	1.40
26	BB	1197	G	C5'-C4'	6.41	1.59	1.51
26	BB	1490	A	N9-C4	-6.41	1.34	1.37
26	BB	1650	A	N3-C4	6.41	1.38	1.34
26	BB	2401	U	C5'-C4'	6.41	1.59	1.51
26	BB	2540	C	C5'-C4'	6.41	1.59	1.51
26	BB	2748	A	C5-C4	-6.41	1.34	1.38
1	AA	163	C	C3'-O3'	6.40	1.51	1.42
1	AA	215	C	C4-C5	-6.40	1.37	1.43
25	BA	51	G	N7-C5	6.40	1.43	1.39
26	BB	89	A	C8-N7	-6.40	1.27	1.31
26	BB	638	G	P-O5'	6.40	1.66	1.59
26	BB	1530	G	C4'-O4'	-6.40	1.37	1.45
1	AA	647	C	N1-C6	6.40	1.41	1.37
1	AA	1051	C	N1-C2	-6.40	1.33	1.40
1	AA	1216	A	P-O5'	6.40	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	210	C	C5-C6	-6.40	1.29	1.34
26	BB	451	U	C3'-C2'	6.40	1.59	1.52
26	BB	761	A	N9-C4	6.40	1.41	1.37
26	BB	857	G	C2-N3	6.40	1.37	1.32
26	BB	1088	A	N9-C4	6.40	1.41	1.37
26	BB	1232	G	P-O5'	6.40	1.66	1.59
1	AA	722	G	C4'-O4'	-6.40	1.37	1.45
1	AA	896	C	C2-N3	6.40	1.40	1.35
1	AA	1105	A	P-O5'	6.40	1.66	1.59
1	AA	1437	A	C2-N3	6.40	1.39	1.33
26	BB	86	G	N3-C4	6.40	1.40	1.35
26	BB	346	A	P-O5'	6.40	1.66	1.59
26	BB	355	U	C5-C6	6.40	1.40	1.34
26	BB	614	A	N9-C8	-6.40	1.32	1.37
26	BB	1216	G	O3'-P	6.40	1.68	1.61
26	BB	1292	G	C2-N2	6.40	1.41	1.34
26	BB	2013	A	N1-C2	6.40	1.40	1.34
26	BB	1609	A	N7-C5	6.40	1.43	1.39
1	AA	463	U	C4-O4	6.40	1.28	1.23
26	BB	1002	G	P-O5'	6.40	1.66	1.59
26	BB	1814	G	C8-N7	6.40	1.34	1.30
1	AA	1299	A	C8-N7	-6.40	1.27	1.31
4	AD	6	G	N3-C4	6.40	1.40	1.35
26	BB	273	G	C5'-C4'	6.40	1.59	1.51
26	BB	2857	G	N1-C2	6.40	1.42	1.37
1	AA	601	G	C8-N7	6.39	1.34	1.30
26	BB	80	G	C5-C4	-6.39	1.33	1.38
26	BB	132	G	P-O5'	6.39	1.66	1.59
26	BB	892	A	N3-C4	6.39	1.38	1.34
26	BB	1575	C	C5'-C4'	6.39	1.59	1.51
26	BB	1597	A	C4'-O4'	-6.39	1.37	1.45
26	BB	2495	G	C5-C6	6.39	1.48	1.42
1	AA	343	U	P-O5'	6.39	1.66	1.59
1	AA	630	A	C5-C4	-6.39	1.34	1.38
1	AA	651	C	C5'-C4'	6.39	1.59	1.51
1	AA	1384	C	C4-C5	6.39	1.48	1.43
1	AA	1428	A	N7-C5	-6.39	1.35	1.39
25	BA	116	G	N1-C2	6.39	1.42	1.37
26	BB	658	U	N3-C4	6.39	1.44	1.38
26	BB	2263	C	P-O5'	6.39	1.66	1.59
26	BB	2337	G	C4'-O4'	-6.39	1.37	1.45
1	AA	629	A	C2-N3	-6.39	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	690	G	C8-N7	6.39	1.34	1.30
1	AA	130	A	C4'-O4'	-6.39	1.37	1.45
1	AA	999	C	P-O5'	6.39	1.66	1.59
1	AA	1494	G	C2-N2	-6.39	1.28	1.34
1	AA	1501	C	C3'-C2'	6.39	1.59	1.52
2	AB	40	C	C4-N4	6.39	1.39	1.33
26	BB	74	A	N9-C8	6.39	1.42	1.37
26	BB	1544	A	O4'-C1'	-6.39	1.33	1.41
26	BB	1747	U	C2-N3	6.39	1.42	1.37
1	AA	1129	C	N3-C4	6.39	1.38	1.33
26	BB	1807	G	C2-N3	6.39	1.37	1.32
26	BB	2641	G	N1-C2	6.39	1.42	1.37
1	AA	225	C	P-O5'	6.39	1.66	1.59
2	AB	49	G	C2'-C1'	6.39	1.60	1.53
26	BB	32	C	C5-C6	6.39	1.39	1.34
26	BB	2172	U	C2-N3	6.39	1.42	1.37
1	AA	1217	C	N3-C4	6.38	1.38	1.33
1	AA	1342	C	C5-C6	6.38	1.39	1.34
25	BA	90	C	C2'-C1'	6.38	1.60	1.53
26	BB	332	A	N9-C8	6.38	1.42	1.37
26	BB	646	U	C5'-C4'	6.38	1.59	1.51
26	BB	1460	U	N1-C2	6.38	1.44	1.38
26	BB	2064	C	C5-C6	6.38	1.39	1.34
26	BB	805	G	C5-C6	6.38	1.48	1.42
26	BB	838	C	C4'-C3'	6.38	1.60	1.53
1	AA	619	U	C4-C5	6.38	1.49	1.43
1	AA	1201	A	N7-C5	-6.38	1.35	1.39
26	BB	92	U	N1-C2	6.38	1.44	1.38
26	BB	198	C	N1-C6	-6.38	1.33	1.37
26	BB	522	A	N9-C8	-6.38	1.32	1.37
26	BB	734	A	N7-C5	6.38	1.43	1.39
26	BB	809	G	C2-N3	6.38	1.37	1.32
26	BB	949	G	P-O5'	6.38	1.66	1.59
26	BB	1328	A	C3'-C2'	6.38	1.59	1.52
1	AA	333	U	C2-N3	6.38	1.42	1.37
26	BB	1287	A	P-O5'	6.38	1.66	1.59
26	BB	1849	G	N3-C4	6.38	1.40	1.35
26	BB	2610	C	C4'-O4'	-6.38	1.37	1.45
26	BB	1500	G	C8-N7	6.38	1.34	1.30
1	AA	149	A	C3'-C2'	6.38	1.59	1.52
2	AB	29	G	C2-N3	6.38	1.37	1.32
26	BB	875	G	N9-C4	6.38	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	905	A	N9-C8	6.38	1.42	1.37
26	BB	1448	G	C8-N7	-6.38	1.27	1.30
26	BB	1733	G	N1-C2	6.38	1.42	1.37
26	BB	2716	C	C4'-O4'	-6.38	1.37	1.45
26	BB	2803	G	C6-O6	6.38	1.29	1.24
26	BB	277	G	C5'-C4'	6.38	1.58	1.51
1	AA	1090	U	C5-C6	6.37	1.39	1.34
26	BB	285	G	N9-C8	6.37	1.42	1.37
26	BB	1731	G	N9-C4	6.37	1.43	1.38
26	BB	2106	U	C2'-C1'	6.37	1.60	1.53
26	BB	2493	U	C2-N3	6.37	1.42	1.37
1	AA	267	C	P-O5'	6.37	1.66	1.59
1	AA	405	U	C2-N3	6.37	1.42	1.37
1	AA	1122	U	N1-C2	6.37	1.44	1.38
1	AA	1257	A	N7-C5	-6.37	1.35	1.39
26	BB	1100	C	N1-C2	-6.37	1.33	1.40
26	BB	1363	C	N3-C4	6.37	1.38	1.33
26	BB	2095	A	N3-C4	6.37	1.38	1.34
26	BB	2245	U	C2-N3	6.37	1.42	1.37
26	BB	2491	U	N1-C2	6.37	1.44	1.38
1	AA	72	A	C5-C6	6.37	1.46	1.41
1	AA	394	G	N7-C5	-6.37	1.35	1.39
26	BB	876	C	C4-C5	6.37	1.48	1.43
26	BB	899	A	N3-C4	6.37	1.38	1.34
1	AA	325	A	C5-C6	6.37	1.46	1.41
1	AA	369	G	N7-C5	-6.37	1.35	1.39
1	AA	599	C	N3-C4	6.37	1.38	1.33
1	AA	1255	G	N1-C2	6.37	1.42	1.37
2	AB	48	U	C4'-C3'	6.37	1.60	1.53
25	BA	69	G	C8-N7	6.37	1.34	1.30
1	AA	729	A	C2-N3	6.37	1.39	1.33
1	AA	292	G	N1-C2	6.37	1.42	1.37
1	AA	314	C	C4'-C3'	-6.37	1.46	1.53
26	BB	899	A	C5-C4	6.37	1.43	1.38
26	BB	1883	U	P-O5'	6.37	1.66	1.59
26	BB	2191	A	C8-N7	-6.37	1.27	1.31
1	AA	1091	U	P-O5'	6.36	1.66	1.59
1	AA	1128	C	C2-N3	6.36	1.40	1.35
3	AC	28	U	C4'-O4'	-6.36	1.37	1.45
26	BB	1540	G	N1-C2	6.36	1.42	1.37
26	BB	1930	G	C4'-O4'	-6.36	1.37	1.45
26	BB	2852	G	C4'-C3'	-6.36	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	76	C	C4'-C3'	6.36	1.60	1.53
26	BB	1326	U	C5-C6	6.36	1.39	1.34
26	BB	2487	G	C2-N3	6.36	1.37	1.32
1	AA	157	U	P-O5'	6.36	1.66	1.59
1	AA	208	U	C4'-O4'	-6.36	1.37	1.45
1	AA	336	A	O3'-P	6.36	1.68	1.61
26	BB	70	G	C6-N1	6.36	1.44	1.39
26	BB	1100	C	C5-C6	6.36	1.39	1.34
26	BB	1159	U	P-O5'	6.36	1.66	1.59
26	BB	1416	G	N9-C4	-6.36	1.32	1.38
26	BB	2011	U	C5-C6	6.36	1.39	1.34
26	BB	2598	A	C6-N1	6.36	1.40	1.35
26	BB	2758	A	C8-N7	-6.36	1.27	1.31
26	BB	184	C	O4'-C1'	6.36	1.50	1.41
26	BB	1829	A	O3'-P	6.36	1.68	1.61
26	BB	2738	A	N9-C4	-6.36	1.34	1.37
32	BH	148	ARG	NE-CZ	6.36	1.41	1.33
1	AA	182	A	C2'-C1'	6.36	1.60	1.53
26	BB	132	G	C5-C6	6.36	1.48	1.42
26	BB	150	U	C4-C5	6.36	1.49	1.43
26	BB	169	G	C5'-C4'	6.36	1.58	1.51
26	BB	675	A	N9-C4	-6.36	1.34	1.37
26	BB	1634	A	C5-C4	-6.36	1.34	1.38
1	AA	517	G	P-O5'	6.36	1.66	1.59
1	AA	852	G	C5-C4	-6.36	1.33	1.38
26	BB	344	A	C8-N7	-6.36	1.27	1.31
26	BB	388	G	C2-N3	6.36	1.37	1.32
26	BB	480	A	N9-C4	-6.36	1.34	1.37
26	BB	2686	G	C2-N3	6.36	1.37	1.32
26	BB	2744	G	N3-C4	6.36	1.39	1.35
1	AA	1258	G	C8-N7	6.35	1.34	1.30
26	BB	218	A	C5-C4	-6.35	1.34	1.38
26	BB	1148	U	C4-O4	6.35	1.28	1.23
26	BB	1226	A	P-O5'	6.35	1.66	1.59
1	AA	72	A	O3'-P	-6.35	1.53	1.61
1	AA	160	A	N7-C5	-6.35	1.35	1.39
1	AA	200	G	N9-C8	-6.35	1.33	1.37
1	AA	533	A	N7-C5	6.35	1.43	1.39
1	AA	1481	U	C4'-C3'	6.35	1.60	1.53
4	AD	70	C	C2-N3	6.35	1.40	1.35
26	BB	169	G	C6-N1	-6.35	1.35	1.39
26	BB	380	G	N7-C5	-6.35	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1659	G	O4'-C1'	6.35	1.50	1.41
26	BB	2184	A	C6-N6	6.35	1.39	1.33
26	BB	2687	U	C5-C6	6.35	1.39	1.34
1	AA	561	U	C4'-O4'	-6.35	1.37	1.45
11	AK	127	TYR	CE2-CZ	6.35	1.46	1.38
26	BB	61	C	C2-N3	6.35	1.40	1.35
26	BB	1738	G	N7-C5	-6.35	1.35	1.39
1	AA	16	A	P-O5'	6.35	1.66	1.59
1	AA	346	G	C8-N7	-6.35	1.27	1.30
1	AA	1279	G	C8-N7	6.35	1.34	1.30
1	AA	1291	U	C5-C6	6.35	1.39	1.34
26	BB	179	C	C4-C5	6.35	1.48	1.43
26	BB	1464	G	N7-C5	-6.35	1.35	1.39
26	BB	1859	U	O3'-P	6.35	1.68	1.61
1	AA	889	A	N7-C5	6.35	1.43	1.39
2	AB	48	U	C5-C6	6.35	1.39	1.34
4	AD	42	C	N1-C6	-6.35	1.33	1.37
25	BA	115	A	C6-N1	-6.35	1.31	1.35
26	BB	424	G	N7-C5	6.35	1.43	1.39
26	BB	1196	C	C3'-C2'	6.35	1.59	1.52
26	BB	2390	U	O4'-C1'	6.35	1.50	1.41
1	AA	351	G	C8-N7	6.35	1.34	1.30
1	AA	542	G	C8-N7	-6.34	1.27	1.30
1	AA	1233	G	N1-C2	6.34	1.42	1.37
1	AA	1246	A	N3-C4	6.34	1.38	1.34
26	BB	459	U	C5'-C4'	6.34	1.58	1.51
26	BB	1124	G	C5'-C4'	6.34	1.58	1.51
26	BB	1321	A	C3'-C2'	-6.34	1.45	1.52
26	BB	2696	U	P-O5'	6.34	1.66	1.59
1	AA	556	C	C5-C6	6.34	1.39	1.34
25	BA	59	A	N3-C4	6.34	1.38	1.34
1	AA	11	G	C6-O6	-6.34	1.18	1.24
1	AA	1331	G	C5-C4	-6.34	1.33	1.38
26	BB	1212	G	C2-N3	6.34	1.37	1.32
26	BB	1569	A	C5-C6	6.34	1.46	1.41
1	AA	937	A	P-O5'	6.34	1.66	1.59
26	BB	1775	U	C4'-C3'	6.34	1.60	1.53
26	BB	2297	A	C3'-C2'	6.34	1.59	1.52
26	BB	2422	C	O3'-P	6.34	1.68	1.61
1	AA	1404	C	C4-C5	-6.34	1.37	1.43
1	AA	563	A	C5'-C4'	6.34	1.58	1.51
26	BB	1384	A	P-O5'	6.34	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1528	A	N1-C2	6.34	1.40	1.34
26	BB	1702	G	N1-C2	6.34	1.42	1.37
26	BB	1770	G	C8-N7	-6.34	1.27	1.30
1	AA	144	G	N1-C2	6.33	1.42	1.37
26	BB	173	A	N7-C5	6.33	1.43	1.39
26	BB	651	G	N1-C2	6.33	1.42	1.37
26	BB	1466	U	P-O5'	6.33	1.66	1.59
26	BB	1551	A	C5-C6	6.33	1.46	1.41
26	BB	2070	A	N3-C4	6.33	1.38	1.34
26	BB	2535	G	N7-C5	-6.33	1.35	1.39
33	BI	116	ARG	CD-NE	6.33	1.57	1.46
1	AA	1054	C	C2-N3	6.33	1.40	1.35
26	BB	227	A	O3'-P	-6.33	1.53	1.61
26	BB	496	G	C6-N1	-6.33	1.35	1.39
26	BB	1912	A	C6-N1	-6.33	1.31	1.35
26	BB	2620	C	C4'-O4'	-6.33	1.37	1.45
1	AA	1021	A	C5'-C4'	6.33	1.58	1.51
26	BB	539	G	C2-N2	6.33	1.40	1.34
26	BB	1126	A	C6-N1	-6.33	1.31	1.35
26	BB	1239	G	N3-C4	6.33	1.39	1.35
26	BB	2336	A	C8-N7	-6.33	1.27	1.31
26	BB	2823	A	N7-C5	-6.33	1.35	1.39
49	BY	21	GLY	N-CA	6.33	1.55	1.46
1	AA	724	G	O4'-C1'	6.33	1.49	1.41
25	BA	108	A	C2-N3	6.33	1.39	1.33
26	BB	2	G	O3'-P	6.33	1.68	1.61
26	BB	1425	G	N9-C8	6.33	1.42	1.37
1	AA	223	A	N9-C4	-6.33	1.34	1.37
4	AD	52	C	C4'-C3'	6.33	1.60	1.53
1	AA	28	A	C5'-C4'	6.33	1.58	1.51
1	AA	75	G	N1-C2	6.33	1.42	1.37
1	AA	90	C	C2-N3	6.33	1.40	1.35
1	AA	171	A	C4'-O4'	-6.33	1.37	1.45
1	AA	544	G	C4'-O4'	-6.33	1.37	1.45
1	AA	1047	G	N3-C4	6.33	1.39	1.35
1	AA	1154	G	P-O5'	6.33	1.66	1.59
26	BB	762	U	C2-O2	6.33	1.28	1.22
26	BB	776	G	P-O5'	6.33	1.66	1.59
26	BB	1218	G	C6-N1	6.33	1.44	1.39
37	BM	109	SER	CB-OG	-6.33	1.34	1.42
1	AA	907	A	C5-C6	6.32	1.46	1.41
5	AE	64	GLY	CA-C	6.32	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	384	A	N9-C8	-6.32	1.32	1.37
26	BB	481	G	C4'-O4'	6.32	1.53	1.45
26	BB	1097	U	P-O5'	6.32	1.66	1.59
26	BB	2325	G	N1-C2	6.32	1.42	1.37
26	BB	2427	C	N3-C4	6.32	1.38	1.33
26	BB	2900	A	C4'-O4'	-6.32	1.37	1.45
1	AA	37	U	C4-O4	-6.32	1.18	1.23
26	BB	621	A	N3-C4	6.32	1.38	1.34
26	BB	2061	G	C4'-C3'	6.32	1.60	1.53
26	BB	2399	G	N1-C2	6.32	1.42	1.37
26	BB	291	G	N3-C4	6.32	1.39	1.35
26	BB	323	C	C4-C5	6.32	1.48	1.43
26	BB	472	A	P-O5'	6.32	1.66	1.59
1	AA	81	A	N3-C4	-6.32	1.31	1.34
26	BB	1145	C	C5-C6	6.32	1.39	1.34
26	BB	1893	C	C2-N3	6.32	1.40	1.35
1	AA	383	A	N3-C4	-6.32	1.31	1.34
1	AA	1119	C	C5-C6	6.32	1.39	1.34
3	AC	32	U	C4'-C3'	6.32	1.60	1.53
26	BB	277	G	C2-N3	6.32	1.37	1.32
26	BB	966	G	C3'-C2'	6.32	1.59	1.52
26	BB	1934	C	C4-C5	6.32	1.48	1.43
26	BB	1984	G	O3'-P	6.32	1.68	1.61
26	BB	2311	A	N3-C4	6.32	1.38	1.34
1	AA	567	G	P-O5'	6.32	1.66	1.59
1	AA	1266	G	C8-N7	-6.32	1.27	1.30
26	BB	27	G	C6-O6	-6.32	1.18	1.24
26	BB	114	U	C3'-O3'	6.32	1.50	1.42
26	BB	507	A	N1-C2	-6.32	1.28	1.34
26	BB	2315	G	C5-C6	6.32	1.48	1.42
26	BB	2690	U	C4'-C3'	6.32	1.60	1.53
43	BS	12	ARG	CZ-NH2	6.32	1.41	1.33
1	AA	1052	U	O3'-P	-6.31	1.53	1.61
26	BB	646	U	C4-C5	6.31	1.49	1.43
26	BB	1758	U	O3'-P	-6.31	1.53	1.61
1	AA	640	A	N9-C4	6.31	1.41	1.37
1	AA	1483	A	C2'-C1'	6.31	1.60	1.53
26	BB	160	A	C5-C4	-6.31	1.34	1.38
26	BB	224	U	N1-C2	6.31	1.44	1.38
26	BB	1347	A	N7-C5	6.31	1.43	1.39
26	BB	2001	C	C5-C6	6.31	1.39	1.34
1	AA	143	A	N3-C4	6.31	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1180	A	C4'-O4'	-6.31	1.37	1.45
3	AC	31	U	P-O5'	6.31	1.66	1.59
26	BB	101	A	C5-C4	6.31	1.43	1.38
26	BB	132	G	C5'-C4'	6.31	1.58	1.51
26	BB	861	A	N9-C8	6.31	1.42	1.37
26	BB	2296	U	C5-C6	-6.31	1.28	1.34
26	BB	2385	C	C4'-O4'	-6.31	1.37	1.45
1	AA	355	C	O3'-P	6.31	1.68	1.61
1	AA	759	A	N9-C8	-6.31	1.32	1.37
1	AA	1387	G	N7-C5	6.31	1.43	1.39
26	BB	1964	G	N1-C2	6.31	1.42	1.37
26	BB	2169	A	C4'-O4'	-6.31	1.37	1.45
26	BB	2899	A	P-O5'	6.31	1.66	1.59
1	AA	1348	U	C5'-C4'	6.31	1.58	1.51
26	BB	317	G	C8-N7	-6.31	1.27	1.30
26	BB	622	G	C6-N1	6.31	1.44	1.39
26	BB	764	A	C2'-C1'	-6.31	1.46	1.53
26	BB	821	A	P-O5'	6.31	1.66	1.59
26	BB	1027	A	N3-C4	6.31	1.38	1.34
26	BB	1329	U	P-O5'	6.31	1.66	1.59
26	BB	1737	G	C5-C6	6.31	1.48	1.42
26	BB	2125	G	C8-N7	6.31	1.34	1.30
26	BB	2541	A	P-O5'	6.31	1.66	1.59
1	AA	71	A	C2'-O2'	6.31	1.49	1.41
1	AA	164	G	C5-C4	6.31	1.42	1.38
1	AA	268	U	C5-C6	6.31	1.39	1.34
26	BB	2224	G	N3-C4	6.31	1.39	1.35
1	AA	1255	G	N9-C4	6.30	1.43	1.38
1	AA	1479	C	C4'-O4'	-6.30	1.37	1.45
26	BB	335	C	P-O5'	6.30	1.66	1.59
26	BB	471	A	C4'-O4'	-6.30	1.37	1.45
26	BB	2547	A	C3'-C2'	6.30	1.59	1.52
1	AA	521	G	N1-C2	6.30	1.42	1.37
25	BA	67	G	C2'-O2'	6.30	1.49	1.41
26	BB	1236	G	N9-C4	6.30	1.43	1.38
26	BB	2720	U	C5'-C4'	6.30	1.58	1.51
1	AA	765	G	C6-N1	6.30	1.44	1.39
1	AA	911	U	C4-C5	6.30	1.49	1.43
25	BA	11	C	C5'-C4'	6.30	1.58	1.51
26	BB	962	G	C2-N3	6.30	1.37	1.32
26	BB	1026	G	P-O5'	6.30	1.66	1.59
26	BB	1071	G	C5'-C4'	6.30	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1431	A	C2-N3	-6.30	1.27	1.33
26	BB	1907	G	C4'-C3'	6.30	1.60	1.53
1	AA	718	A	N3-C4	6.30	1.38	1.34
1	AA	773	G	N1-C2	6.30	1.42	1.37
26	BB	880	G	N7-C5	6.30	1.43	1.39
26	BB	1098	A	N3-C4	6.30	1.38	1.34
26	BB	2207	C	C2'-C1'	-6.30	1.46	1.53
1	AA	939	G	C4'-O4'	-6.30	1.37	1.45
1	AA	1266	G	N9-C4	6.30	1.43	1.38
26	BB	725	G	N9-C4	6.30	1.43	1.38
1	AA	171	A	C5-C4	6.30	1.43	1.38
1	AA	1288	A	C4'-O4'	-6.30	1.37	1.45
26	BB	42	A	C5-C6	6.30	1.46	1.41
26	BB	530	G	C5'-C4'	6.30	1.58	1.51
26	BB	2071	A	C4'-C3'	-6.30	1.46	1.53
26	BB	2508	G	C3'-C2'	6.30	1.59	1.52
26	BB	416	U	C5'-C4'	6.29	1.58	1.51
26	BB	657	U	C4'-O4'	-6.29	1.37	1.45
26	BB	1638	C	C4-C5	6.29	1.48	1.43
26	BB	39	G	P-O5'	6.29	1.66	1.59
26	BB	803	U	C5-C6	6.29	1.39	1.34
26	BB	1338	G	C6-N1	6.29	1.44	1.39
26	BB	1801	A	P-O5'	6.29	1.66	1.59
1	AA	440	C	C4'-O4'	-6.29	1.37	1.45
1	AA	463	U	C2'-C1'	6.29	1.60	1.53
1	AA	1493	A	C2'-O2'	6.29	1.49	1.41
26	BB	1546	G	C5-C6	6.29	1.48	1.42
26	BB	2193	G	C6-N1	6.29	1.44	1.39
1	AA	652	U	P-O5'	6.29	1.66	1.59
1	AA	1074	G	N3-C4	6.29	1.39	1.35
1	AA	1371	G	N9-C4	-6.29	1.32	1.38
26	BB	496	G	N1-C2	6.29	1.42	1.37
3	AC	34	U	C4-C5	6.29	1.49	1.43
4	AD	13	C	C4-C5	6.29	1.48	1.43
26	BB	1191	G	N9-C4	6.29	1.43	1.38
26	BB	2674	G	C3'-C2'	6.29	1.59	1.52
1	AA	885	G	N3-C4	6.29	1.39	1.35
1	AA	1265	C	O4'-C1'	6.29	1.49	1.41
25	BA	42	C	C4-C5	6.29	1.48	1.43
26	BB	375	G	N1-C2	-6.29	1.32	1.37
26	BB	659	G	C4'-C3'	6.29	1.60	1.53
26	BB	2018	G	O3'-P	6.29	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	92	U	O3'-P	6.29	1.68	1.61
26	BB	2263	C	C2'-C1'	6.29	1.60	1.53
26	BB	2583	G	N7-C5	6.29	1.43	1.39
26	BB	2634	A	P-O5'	6.29	1.66	1.59
1	AA	1169	A	N9-C4	-6.28	1.34	1.37
26	BB	898	C	N3-C4	6.28	1.38	1.33
26	BB	1811	G	C4'-O4'	-6.28	1.37	1.45
26	BB	2893	A	N3-C4	6.28	1.38	1.34
1	AA	384	G	C2-N3	6.28	1.37	1.32
1	AA	682	G	C4'-O4'	-6.28	1.37	1.45
1	AA	1002	G	N1-C2	6.28	1.42	1.37
26	BB	1208	C	N1-C6	-6.28	1.33	1.37
26	BB	1253	A	C5'-C4'	6.28	1.58	1.51
26	BB	1884	G	C8-N7	6.28	1.34	1.30
26	BB	1970	A	N9-C8	-6.28	1.32	1.37
26	BB	1968	G	C8-N7	-6.28	1.27	1.30
1	AA	606	G	N1-C2	6.28	1.42	1.37
1	AA	649	A	P-O5'	6.28	1.66	1.59
1	AA	1018	G	N9-C4	-6.28	1.32	1.38
26	BB	82	U	C2-N3	6.28	1.42	1.37
1	AA	565	U	P-O5'	6.28	1.66	1.59
1	AA	1019	A	P-O5'	6.28	1.66	1.59
1	AA	1092	A	C6-N1	6.28	1.40	1.35
1	AA	1229	A	N3-C4	6.28	1.38	1.34
26	BB	1013	C	N3-C4	-6.28	1.29	1.33
26	BB	2331	G	N3-C4	6.28	1.39	1.35
26	BB	2414	G	N3-C4	6.28	1.39	1.35
1	AA	389	A	C2'-C1'	-6.27	1.46	1.53
26	BB	1264	A	P-O5'	6.27	1.66	1.59
1	AA	360	G	N7-C5	-6.27	1.35	1.39
26	BB	2000	C	C3'-C2'	6.27	1.59	1.52
26	BB	2376	A	O3'-P	6.27	1.68	1.61
26	BB	2790	U	C2-N3	6.27	1.42	1.37
26	BB	2859	G	C5-C4	6.27	1.42	1.38
1	AA	831	A	C8-N7	-6.27	1.27	1.31
2	AB	67	G	N9-C4	6.27	1.43	1.38
26	BB	995	C	C4-C5	6.27	1.48	1.43
26	BB	1757	A	P-O5'	6.27	1.66	1.59
26	BB	1867	G	C5-C4	6.27	1.42	1.38
1	AA	158	G	C2-N3	6.27	1.37	1.32
1	AA	188	C	C2-O2	-6.27	1.18	1.24
26	BB	144	A	O3'-P	6.27	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	207	A	C6-N1	-6.27	1.31	1.35
26	BB	1863	G	C2-N3	6.27	1.37	1.32
1	AA	104	G	C5-C4	-6.27	1.33	1.38
1	AA	141	G	C2'-C1'	6.27	1.60	1.53
1	AA	444	G	N9-C8	-6.27	1.33	1.37
26	BB	1294	U	C2-N3	6.27	1.42	1.37
26	BB	1674	G	N9-C4	6.27	1.43	1.38
26	BB	1340	U	C5'-C4'	6.27	1.58	1.51
1	AA	46	G	C2-N3	6.26	1.37	1.32
1	AA	741	G	P-O5'	6.26	1.66	1.59
26	BB	18	U	C4-O4	-6.26	1.18	1.23
26	BB	615	U	N1-C2	6.26	1.44	1.38
26	BB	1647	U	C5'-C4'	6.26	1.58	1.51
26	BB	2529	G	C4'-O4'	-6.26	1.37	1.45
26	BB	2629	U	C4-C5	6.26	1.49	1.43
26	BB	2821	A	P-O5'	6.26	1.66	1.59
26	BB	2826	A	N9-C8	-6.26	1.32	1.37
1	AA	1482	G	O3'-P	6.26	1.68	1.61
26	BB	1020	A	N3-C4	6.26	1.38	1.34
26	BB	1175	A	N3-C4	6.26	1.38	1.34
1	AA	12	U	C2-O2	-6.26	1.16	1.22
1	AA	549	C	P-O5'	6.26	1.66	1.59
25	BA	69	G	C6-O6	-6.26	1.18	1.24
26	BB	1688	U	N1-C2	6.26	1.44	1.38
26	BB	2428	G	C6-O6	6.26	1.29	1.24
26	BB	2499	C	P-O5'	6.26	1.66	1.59
1	AA	662	U	C4'-O4'	-6.26	1.37	1.45
1	AA	737	C	C3'-C2'	6.26	1.59	1.52
1	AA	1023	U	O3'-P	6.26	1.68	1.61
1	AA	1379	G	N9-C8	-6.26	1.33	1.37
25	BA	92	C	C3'-C2'	6.26	1.59	1.52
26	BB	966	G	O3'-P	6.26	1.68	1.61
26	BB	1264	A	N7-C5	-6.26	1.35	1.39
26	BB	1331	G	C4'-C3'	6.26	1.60	1.53
26	BB	1749	A	C5'-C4'	6.26	1.58	1.51
26	BB	1940	U	C2'-C1'	6.26	1.60	1.53
26	BB	1973	G	C2-N3	6.26	1.37	1.32
1	AA	73	C	O4'-C1'	6.26	1.49	1.41
1	AA	207	C	C2-O2	-6.26	1.18	1.24
26	BB	239	C	C4-C5	6.26	1.48	1.43
26	BB	329	G	N9-C4	6.26	1.43	1.38
26	BB	430	A	C4'-C3'	-6.26	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2157	G	N1-C2	6.26	1.42	1.37
1	AA	37	U	C5'-C4'	6.26	1.58	1.51
1	AA	759	A	P-O5'	6.26	1.66	1.59
26	BB	67	U	C2-N3	6.26	1.42	1.37
26	BB	247	G	C6-N1	6.26	1.44	1.39
26	BB	1174	U	N1-C2	6.26	1.44	1.38
26	BB	1207	C	N3-C4	6.26	1.38	1.33
26	BB	1693	U	C5-C6	6.26	1.39	1.34
26	BB	1706	C	N3-C4	-6.26	1.29	1.33
26	BB	1014	A	O3'-P	6.25	1.68	1.61
26	BB	2838	G	N9-C4	6.25	1.43	1.38
26	BB	2851	A	C6-N1	-6.25	1.31	1.35
1	AA	982	U	C4-O4	-6.25	1.18	1.23
26	BB	1886	U	C4-C5	6.25	1.49	1.43
26	BB	2077	A	C5'-C4'	6.25	1.58	1.51
1	AA	410	G	C6-N1	6.25	1.44	1.39
1	AA	493	A	N9-C4	6.25	1.41	1.37
26	BB	274	C	C4'-O4'	-6.25	1.37	1.45
26	BB	1841	U	N1-C6	6.25	1.43	1.38
26	BB	1990	C	C2-N3	6.25	1.40	1.35
26	BB	2198	A	C2'-C1'	6.25	1.60	1.53
33	BI	32	PRO	N-CD	-6.25	1.39	1.47
1	AA	51	A	O3'-P	6.25	1.68	1.61
1	AA	1453	G	N9-C4	6.25	1.43	1.38
1	AA	910	C	C2'-C1'	6.25	1.60	1.53
1	AA	1147	C	C4-N4	6.25	1.39	1.33
1	AA	1159	U	C5'-C4'	6.25	1.58	1.51
1	AA	1462	C	C5'-C4'	6.25	1.58	1.51
25	BA	31	C	P-O5'	6.25	1.66	1.59
25	BA	107	G	P-O5'	6.25	1.66	1.59
26	BB	218	A	C4'-O4'	-6.25	1.37	1.45
26	BB	1070	A	C5-C6	-6.25	1.35	1.41
26	BB	1805	A	N1-C2	-6.25	1.28	1.34
1	AA	1117	A	N9-C4	6.25	1.41	1.37
26	BB	1685	C	C4-N4	-6.25	1.28	1.33
26	BB	2382	G	N3-C4	6.25	1.39	1.35
1	AA	400	C	O3'-P	-6.25	1.53	1.61
1	AA	437	U	P-O5'	6.25	1.66	1.59
19	AS	62	GLY	CA-C	6.25	1.61	1.51
26	BB	2684	U	C5'-C4'	6.25	1.58	1.51
1	AA	501	C	C3'-O3'	-6.24	1.33	1.42
1	AA	631	C	C5-C6	6.24	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	969	A	P-O5'	6.24	1.66	1.59
25	BA	110	C	C5-C6	6.24	1.39	1.34
26	BB	340	A	C5-C4	-6.24	1.34	1.38
26	BB	567	U	C5-C6	6.24	1.39	1.34
26	BB	906	U	N3-C4	6.24	1.44	1.38
26	BB	2381	A	C6-N1	6.24	1.40	1.35
2	AB	72	U	O3'-P	6.24	1.68	1.61
4	AD	4	G	C6-N1	6.24	1.44	1.39
26	BB	1393	A	N9-C4	-6.24	1.34	1.37
8	AH	4	GLU	CG-CD	6.24	1.61	1.51
26	BB	99	U	C2-N3	6.24	1.42	1.37
26	BB	1336	A	N1-C2	6.24	1.40	1.34
26	BB	1382	G	C6-N1	6.24	1.44	1.39
1	AA	113	G	C6-O6	-6.24	1.18	1.24
1	AA	597	G	C3'-O3'	6.24	1.50	1.42
1	AA	643	C	C4-N4	-6.24	1.28	1.33
25	BA	104	A	N1-C2	-6.24	1.28	1.34
26	BB	812	C	N3-C4	6.24	1.38	1.33
26	BB	1418	G	C5'-C4'	6.24	1.58	1.51
26	BB	2173	A	N9-C4	-6.24	1.34	1.37
1	AA	1106	G	P-O5'	6.24	1.66	1.59
1	AA	1362	A	C6-N6	6.24	1.39	1.33
2	AB	35	C	C2-N3	6.24	1.40	1.35
26	BB	1299	G	P-O5'	6.24	1.66	1.59
26	BB	2402	U	C4'-O4'	-6.24	1.37	1.45
1	AA	1270	G	N9-C8	-6.24	1.33	1.37
1	AA	1315	U	N1-C6	6.24	1.43	1.38
1	AA	1421	G	N7-C5	6.24	1.43	1.39
26	BB	207	A	C4'-C3'	-6.24	1.46	1.53
26	BB	250	G	O3'-P	6.24	1.68	1.61
26	BB	261	G	N9-C4	-6.24	1.32	1.38
26	BB	1550	C	N1-C6	6.24	1.40	1.37
26	BB	2614	A	N9-C4	-6.24	1.34	1.37
26	BB	2799	A	N9-C4	-6.24	1.34	1.37
26	BB	213	A	N9-C4	6.23	1.41	1.37
26	BB	1086	A	N9-C4	6.23	1.41	1.37
26	BB	1090	A	C5-C4	-6.23	1.34	1.38
26	BB	1938	A	C4'-C3'	6.23	1.60	1.53
1	AA	79	G	C2-N3	6.23	1.37	1.32
1	AA	367	U	C3'-C2'	-6.23	1.45	1.52
1	AA	418	C	N3-C4	6.23	1.38	1.33
1	AA	1181	G	P-O5'	6.23	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1246	A	N1-C2	-6.23	1.28	1.34
26	BB	34	U	C2-N3	6.23	1.42	1.37
26	BB	573	U	N1-C2	6.23	1.44	1.38
26	BB	789	A	C2'-C1'	6.23	1.60	1.53
26	BB	846	U	C5-C6	6.23	1.39	1.34
26	BB	1272	A	C2'-C1'	6.23	1.60	1.53
26	BB	1511	G	C5'-C4'	6.23	1.58	1.51
26	BB	1747	U	C4'-O4'	-6.23	1.37	1.45
26	BB	2018	G	P-O5'	6.23	1.66	1.59
26	BB	2118	U	P-O5'	6.23	1.66	1.59
26	BB	2291	U	N3-C4	6.23	1.44	1.38
1	AA	761	G	N3-C4	6.23	1.39	1.35
1	AA	961	U	C2-N3	6.23	1.42	1.37
2	AB	24	G	C2'-C1'	-6.23	1.46	1.53
26	BB	990	A	C5-C4	6.23	1.43	1.38
26	BB	1412	U	N1-C2	6.23	1.44	1.38
26	BB	2615	U	C2-N3	6.23	1.42	1.37
26	BB	2641	G	C3'-C2'	6.23	1.59	1.52
1	AA	115	G	C6-N1	6.23	1.44	1.39
1	AA	965	U	C2'-C1'	6.23	1.60	1.53
2	AB	10	G	N1-C2	6.23	1.42	1.37
1	AA	226	G	N9-C8	6.23	1.42	1.37
1	AA	294	U	C5'-C4'	6.23	1.58	1.51
1	AA	663	A	N7-C5	-6.23	1.35	1.39
4	AD	43	G	C8-N7	6.23	1.34	1.30
26	BB	297	G	C2-N3	6.23	1.37	1.32
26	BB	427	U	P-O5'	6.23	1.66	1.59
26	BB	1948	G	N7-C5	6.23	1.43	1.39
26	BB	2766	A	N7-C5	6.23	1.43	1.39
1	AA	87	C	C2'-O2'	6.23	1.49	1.41
25	BA	104	A	P-O5'	-6.23	1.53	1.59
26	BB	1187	G	C8-N7	6.23	1.34	1.30
1	AA	481	G	N1-C2	-6.22	1.32	1.37
1	AA	1213	A	N9-C4	-6.22	1.34	1.37
2	AB	57	G	N9-C8	6.22	1.42	1.37
26	BB	48	G	C5-C6	6.22	1.48	1.42
26	BB	192	C	O3'-P	6.22	1.68	1.61
26	BB	697	G	O3'-P	6.22	1.68	1.61
26	BB	862	G	C4'-O4'	-6.22	1.37	1.45
26	BB	953	G	C5'-C4'	6.22	1.58	1.51
26	BB	953	G	C5-C6	6.22	1.48	1.42
26	BB	1224	U	C4-O4	-6.22	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1577	C	O3'-P	6.22	1.68	1.61
26	BB	1608	A	P-O5'	6.22	1.66	1.59
26	BB	1960	A	C5-C6	6.22	1.46	1.41
26	BB	2324	U	C4-C5	6.22	1.49	1.43
1	AA	83	C	C5-C6	6.22	1.39	1.34
1	AA	234	C	C2-N3	6.22	1.40	1.35
4	AD	37	U	O3'-P	6.22	1.68	1.61
26	BB	38	A	N7-C5	6.22	1.43	1.39
26	BB	1220	G	C5-C4	-6.22	1.33	1.38
26	BB	2144	G	C2-N2	6.22	1.40	1.34
26	BB	2673	G	C5'-C4'	6.22	1.58	1.51
26	BB	970	U	C5-C6	6.22	1.39	1.34
1	AA	168	G	C8-N7	6.22	1.34	1.30
1	AA	316	C	N3-C4	6.22	1.38	1.33
1	AA	528	C	C4-N4	6.22	1.39	1.33
1	AA	1515	G	P-O5'	-6.22	1.53	1.59
26	BB	1367	A	O3'-P	6.22	1.68	1.61
26	BB	1973	G	N3-C4	6.22	1.39	1.35
26	BB	2043	C	C4'-C3'	-6.22	1.46	1.53
26	BB	2536	G	N9-C8	-6.22	1.33	1.37
26	BB	2583	G	C2'-C1'	6.22	1.60	1.53
26	BB	2846	G	O3'-P	6.22	1.68	1.61
3	AC	47	C	C4'-C3'	6.22	1.59	1.53
26	BB	53	A	N3-C4	6.22	1.38	1.34
26	BB	2704	C	C4'-O4'	-6.22	1.37	1.45
26	BB	2864	G	C6-O6	-6.22	1.18	1.24
1	AA	232	G	N9-C4	6.22	1.43	1.38
1	AA	918	A	C2'-O2'	-6.22	1.33	1.41
26	BB	85	G	C5'-C4'	6.22	1.58	1.51
26	BB	1110	G	C5-C6	6.22	1.48	1.42
26	BB	1635	A	C8-N7	6.22	1.35	1.31
26	BB	1738	G	P-O5'	6.22	1.66	1.59
26	BB	2615	U	P-O5'	6.22	1.66	1.59
1	AA	254	G	N9-C8	6.21	1.42	1.37
1	AA	1056	U	C2-N3	6.21	1.42	1.37
1	AA	1341	U	C2'-C1'	6.21	1.60	1.53
26	BB	99	U	C4'-C3'	6.21	1.59	1.53
1	AA	340	U	N1-C2	6.21	1.44	1.38
1	AA	412	A	O3'-P	6.21	1.68	1.61
1	AA	1108	G	C2'-C1'	6.21	1.60	1.53
1	AA	1293	C	N3-C4	6.21	1.38	1.33
26	BB	369	U	C3'-C2'	6.21	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1426	G	N3-C4	6.21	1.39	1.35
26	BB	2663	G	N3-C4	6.21	1.39	1.35
1	AA	942	G	C2-N3	6.21	1.37	1.32
1	AA	1080	A	C6-N6	6.21	1.39	1.33
1	AA	1170	A	N9-C8	-6.21	1.32	1.37
4	AD	47	A	C5-C4	-6.21	1.34	1.38
26	BB	788	A	C4'-O4'	-6.21	1.37	1.45
26	BB	2882	A	N7-C5	-6.21	1.35	1.39
1	AA	262	A	P-O5'	6.21	1.66	1.59
1	AA	1260	G	N7-C5	6.21	1.43	1.39
26	BB	1827	U	C2'-C1'	6.21	1.60	1.53
1	AA	440	C	C4-C5	6.21	1.48	1.43
1	AA	760	G	O3'-P	6.21	1.68	1.61
9	AI	80	PHE	CG-CD1	6.21	1.48	1.38
26	BB	420	C	C4-C5	6.21	1.48	1.43
26	BB	2770	G	P-O5'	6.21	1.66	1.59
1	AA	57	G	C4'-C3'	-6.21	1.46	1.53
1	AA	202	G	C6-N1	6.21	1.43	1.39
1	AA	413	G	C4'-C3'	6.21	1.59	1.53
1	AA	848	C	C2'-O2'	-6.21	1.33	1.41
1	AA	883	C	C3'-C2'	6.21	1.59	1.52
26	BB	216	A	N9-C4	6.21	1.41	1.37
26	BB	258	G	N7-C5	6.21	1.43	1.39
26	BB	278	A	N3-C4	6.21	1.38	1.34
26	BB	1317	G	N1-C2	6.21	1.42	1.37
26	BB	2562	U	C2'-C1'	6.21	1.60	1.53
26	BB	2673	G	N9-C4	-6.21	1.32	1.38
1	AA	1125	U	P-O5'	6.21	1.66	1.59
1	AA	1528	U	C5-C6	6.21	1.39	1.34
26	BB	554	U	C2-N3	6.21	1.42	1.37
1	AA	311	C	N1-C6	6.20	1.40	1.37
1	AA	782	A	N9-C4	-6.20	1.34	1.37
4	AD	65	G	O3'-P	6.20	1.68	1.61
4	AD	69	C	C4-N4	6.20	1.39	1.33
26	BB	754	U	N1-C2	6.20	1.44	1.38
26	BB	787	C	C2-O2	-6.20	1.18	1.24
26	BB	1184	U	C4'-O4'	-6.20	1.37	1.45
26	BB	1237	A	C5-C4	-6.20	1.34	1.38
26	BB	2670	A	C5-C6	6.20	1.46	1.41
1	AA	937	A	C6-N1	6.20	1.39	1.35
26	BB	265	A	C4'-C3'	6.20	1.59	1.53
26	BB	281	C	C2-N3	6.20	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1935	G	C2-N3	6.20	1.37	1.32
1	AA	93	U	C4'-O4'	-6.20	1.37	1.45
1	AA	962	C	N3-C4	6.20	1.38	1.33
21	AU	63	TYR	CE1-CZ	6.20	1.46	1.38
26	BB	1044	C	C4'-C3'	6.20	1.59	1.53
26	BB	1110	G	P-O5'	6.20	1.66	1.59
26	BB	2083	G	O3'-P	6.20	1.68	1.61
26	BB	2374	C	C4-C5	6.20	1.48	1.43
58	B7	28	SER	CB-OG	-6.20	1.34	1.42
1	AA	9	G	C8-N7	-6.20	1.27	1.30
1	AA	151	A	C8-N7	-6.20	1.27	1.31
1	AA	505	G	N7-C5	-6.20	1.35	1.39
26	BB	502	A	C8-N7	6.20	1.35	1.31
26	BB	1308	A	C5-C6	6.20	1.46	1.41
26	BB	1492	G	C6-N1	6.20	1.43	1.39
26	BB	1623	G	C2-N3	6.20	1.37	1.32
26	BB	1682	G	C2-N3	6.20	1.37	1.32
26	BB	2636	C	C3'-O3'	6.20	1.50	1.42
1	AA	532	A	C5-C6	6.20	1.46	1.41
1	AA	724	G	N3-C4	6.20	1.39	1.35
1	AA	758	C	C4'-C3'	6.20	1.59	1.53
1	AA	1289	A	C5'-C4'	6.20	1.58	1.51
3	AC	25	U	C2-O2	6.20	1.27	1.22
26	BB	944	C	P-O5'	6.20	1.66	1.59
26	BB	1960	A	C5-C4	-6.20	1.34	1.38
26	BB	2319	G	N7-C5	-6.20	1.35	1.39
26	BB	278	A	N7-C5	6.19	1.43	1.39
26	BB	2070	A	C6-N6	6.19	1.39	1.33
1	AA	227	G	N7-C5	-6.19	1.35	1.39
1	AA	718	A	C4'-O4'	-6.19	1.37	1.45
1	AA	1323	G	N1-C2	6.19	1.42	1.37
25	BA	33	G	O3'-P	-6.19	1.53	1.61
26	BB	1539	U	C2-N3	6.19	1.42	1.37
26	BB	2385	C	N1-C6	6.19	1.40	1.37
26	BB	2770	G	N9-C8	-6.19	1.33	1.37
1	AA	110	C	C2-N3	-6.19	1.30	1.35
1	AA	276	G	N1-C2	6.19	1.42	1.37
1	AA	700	G	C8-N7	-6.19	1.27	1.30
1	AA	806	C	N3-C4	6.19	1.38	1.33
1	AA	887	G	N1-C2	6.19	1.42	1.37
26	BB	1022	G	C2-N3	6.19	1.37	1.32
26	BB	1963	U	C2-N3	6.19	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2526	G	N9-C8	-6.19	1.33	1.37
26	BB	2784	U	N1-C2	6.19	1.44	1.38
1	AA	1533	C	C5-C6	6.19	1.39	1.34
11	AK	85	TYR	CE2-CZ	6.19	1.46	1.38
26	BB	2309	A	N9-C8	-6.19	1.32	1.37
1	AA	1463	U	C2-N3	6.19	1.42	1.37
2	AB	30	G	P-O5'	6.19	1.66	1.59
26	BB	1115	G	C2-N3	6.19	1.37	1.32
26	BB	1407	G	P-O5'	6.19	1.66	1.59
26	BB	2407	A	O3'-P	-6.19	1.53	1.61
25	BA	66	A	N3-C4	6.19	1.38	1.34
26	BB	64	A	P-O5'	6.19	1.66	1.59
26	BB	253	C	C5'-C4'	6.19	1.58	1.51
26	BB	831	G	P-O5'	6.19	1.66	1.59
26	BB	1842	G	N9-C4	-6.19	1.33	1.38
1	AA	330	C	C4-C5	6.18	1.47	1.43
1	AA	443	C	C4-C5	6.18	1.47	1.43
1	AA	708	C	C4-C5	-6.18	1.38	1.43
25	BA	30	C	C5'-C4'	6.18	1.58	1.51
26	BB	505	A	C8-N7	-6.18	1.27	1.31
26	BB	600	G	C2-N3	6.18	1.37	1.32
26	BB	1551	A	C8-N7	-6.18	1.27	1.31
26	BB	1619	G	P-O5'	6.18	1.66	1.59
26	BB	2087	G	P-O5'	-6.18	1.53	1.59
1	AA	80	A	N3-C4	6.18	1.38	1.34
1	AA	187	G	C4'-O4'	-6.18	1.37	1.45
26	BB	188	G	C5'-C4'	6.18	1.58	1.51
26	BB	924	G	N1-C2	6.18	1.42	1.37
26	BB	1479	G	N7-C5	-6.18	1.35	1.39
26	BB	2246	G	C5-C4	-6.18	1.34	1.38
1	AA	922	G	O5'-C5'	-6.18	1.32	1.42
1	AA	1493	A	C3'-C2'	6.18	1.59	1.52
26	BB	503	A	N9-C4	6.18	1.41	1.37
26	BB	1137	G	C2-N3	6.18	1.37	1.32
26	BB	1532	A	N1-C2	-6.18	1.28	1.34
26	BB	1878	G	O3'-P	6.18	1.68	1.61
26	BB	2098	U	C4'-O4'	-6.18	1.37	1.45
1	AA	83	C	N1-C6	6.18	1.40	1.37
1	AA	270	A	C2'-C1'	-6.18	1.46	1.53
1	AA	569	C	O4'-C1'	6.18	1.49	1.41
1	AA	1403	C	C4-C5	6.18	1.47	1.43
4	AD	5	G	N1-C2	6.18	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	21	A	C6-N6	-6.18	1.29	1.33
26	BB	1719	G	C5'-C4'	6.18	1.58	1.51
1	AA	635	A	N3-C4	-6.18	1.31	1.34
1	AA	756	C	C4'-O4'	-6.18	1.37	1.45
2	AB	11	U	N3-C4	6.18	1.44	1.38
25	BA	91	C	C2'-O2'	-6.18	1.33	1.41
26	BB	254	G	P-O5'	6.18	1.66	1.59
26	BB	1415	U	C3'-C2'	6.18	1.59	1.52
26	BB	1718	G	C8-N7	-6.18	1.27	1.30
26	BB	1984	G	O4'-C1'	6.18	1.49	1.41
1	AA	2	A	C2'-C1'	-6.18	1.46	1.53
1	AA	369	G	N3-C4	6.18	1.39	1.35
1	AA	1212	U	C4'-O4'	-6.18	1.37	1.45
26	BB	1312	U	O4'-C1'	6.18	1.49	1.41
1	AA	19	A	N7-C5	6.17	1.43	1.39
1	AA	294	U	C4'-O4'	-6.17	1.37	1.45
1	AA	1511	G	C5-C4	-6.17	1.34	1.38
1	AA	1525	G	C2-N3	6.17	1.37	1.32
26	BB	414	C	N1-C6	6.17	1.40	1.37
26	BB	847	U	C3'-O3'	6.17	1.50	1.42
26	BB	924	G	P-O5'	6.17	1.66	1.59
26	BB	1877	A	C8-N7	-6.17	1.27	1.31
26	BB	2480	C	P-O5'	6.17	1.66	1.59
26	BB	283	G	C2-N3	6.17	1.37	1.32
26	BB	491	G	O3'-P	6.17	1.68	1.61
26	BB	1580	A	C2-N3	6.17	1.39	1.33
26	BB	1837	C	C2-N3	6.17	1.40	1.35
26	BB	1850	G	N7-C5	-6.17	1.35	1.39
26	BB	2315	G	C6-O6	-6.17	1.18	1.24
26	BB	2753	A	P-O5'	6.17	1.66	1.59
1	AA	158	G	P-O5'	6.17	1.66	1.59
1	AA	511	C	O4'-C1'	6.17	1.49	1.41
1	AA	1501	C	C4-C5	6.17	1.47	1.43
25	BA	58	A	C5-C4	-6.17	1.34	1.38
26	BB	185	G	C2-N3	6.17	1.37	1.32
26	BB	1528	A	N9-C4	6.17	1.41	1.37
26	BB	416	U	C3'-C2'	-6.17	1.46	1.52
26	BB	2046	G	N1-C2	6.17	1.42	1.37
1	AA	628	G	C2-N3	6.17	1.37	1.32
1	AA	1397	C	C4-N4	6.17	1.39	1.33
26	BB	502	A	N3-C4	6.17	1.38	1.34
26	BB	1134	A	N3-C4	6.17	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1529	G	P-O5'	6.17	1.66	1.59
26	BB	2383	G	C2-N3	6.17	1.37	1.32
26	BB	2761	A	C6-N6	6.17	1.38	1.33
1	AA	205	A	C5'-C4'	6.17	1.58	1.51
1	AA	599	C	C4-N4	-6.17	1.28	1.33
26	BB	250	G	C5-C6	6.17	1.48	1.42
26	BB	935	C	C2-O2	-6.17	1.19	1.24
26	BB	1674	G	C5'-C4'	6.17	1.58	1.51
26	BB	2132	U	C2'-O2'	6.17	1.49	1.41
28	BD	98	GLY	CA-C	6.17	1.61	1.51
1	AA	267	C	C5-C6	6.16	1.39	1.34
1	AA	878	A	C6-N6	6.16	1.38	1.33
1	AA	1159	U	C4-O4	-6.16	1.18	1.23
26	BB	2071	A	C6-N6	-6.16	1.29	1.33
26	BB	2388	A	P-O5'	6.16	1.66	1.59
26	BB	2560	A	C5'-C4'	6.16	1.58	1.51
1	AA	856	C	C5'-C4'	6.16	1.58	1.51
26	BB	1335	C	P-O5'	6.16	1.66	1.59
26	BB	1336	A	C6-N1	6.16	1.39	1.35
26	BB	2537	U	O4'-C1'	-6.16	1.33	1.41
1	AA	118	U	O4'-C1'	6.16	1.49	1.41
1	AA	478	A	O3'-P	6.16	1.68	1.61
1	AA	1053	G	N7-C5	6.16	1.43	1.39
1	AA	1095	U	C4-O4	-6.16	1.18	1.23
26	BB	21	A	C5-C4	-6.16	1.34	1.38
26	BB	125	A	N3-C4	6.16	1.38	1.34
26	BB	863	A	N9-C4	-6.16	1.34	1.37
26	BB	2291	U	O4'-C1'	6.16	1.49	1.41
26	BB	2608	G	C4'-O4'	-6.16	1.37	1.45
31	BG	72	SER	CB-OG	6.16	1.50	1.42
1	AA	669	G	C5'-C4'	6.16	1.58	1.51
1	AA	706	A	C8-N7	-6.16	1.27	1.31
1	AA	1124	G	N1-C2	6.16	1.42	1.37
3	AC	27	A	N7-C5	6.16	1.43	1.39
26	BB	214	G	N1-C2	6.16	1.42	1.37
26	BB	513	A	C6-N6	-6.16	1.29	1.33
26	BB	706	A	N1-C2	6.16	1.39	1.34
26	BB	1831	G	O5'-C5'	-6.16	1.32	1.42
26	BB	2199	A	C2-N3	-6.16	1.28	1.33
1	AA	757	U	N3-C4	6.16	1.44	1.38
26	BB	136	G	C5'-C4'	6.16	1.58	1.51
26	BB	1614	A	C3'-C2'	6.16	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	374	A	C6-N6	6.16	1.38	1.33
1	AA	583	A	N3-C4	-6.16	1.31	1.34
1	AA	831	A	O3'-P	6.16	1.68	1.61
1	AA	971	G	C2-N3	6.16	1.37	1.32
1	AA	1142	G	C4'-C3'	6.16	1.59	1.53
2	AB	48	U	C2-N3	6.16	1.42	1.37
25	BA	32	U	C5-C6	6.16	1.39	1.34
26	BB	123	G	C6-N1	6.16	1.43	1.39
26	BB	1339	G	C8-N7	-6.16	1.27	1.30
26	BB	156	A	C6-N6	6.15	1.38	1.33
1	AA	453	G	P-O5'	6.15	1.66	1.59
1	AA	1340	A	C5'-C4'	6.15	1.58	1.51
26	BB	1343	G	C6-N1	-6.15	1.35	1.39
26	BB	2014	A	N3-C4	-6.15	1.31	1.34
26	BB	2399	G	C4'-O4'	-6.15	1.37	1.45
26	BB	2406	A	C3'-C2'	6.15	1.59	1.52
1	AA	622	A	C4'-O4'	-6.15	1.37	1.45
1	AA	813	U	O3'-P	6.15	1.68	1.61
25	BA	1	U	O3'-P	6.15	1.68	1.61
26	BB	168	G	C2-N3	6.15	1.37	1.32
26	BB	793	A	C6-N1	6.15	1.39	1.35
26	BB	1768	C	N1-C2	6.15	1.46	1.40
1	AA	565	U	N1-C6	6.15	1.43	1.38
1	AA	1105	A	C6-N1	6.15	1.39	1.35
26	BB	1187	G	C5-C4	6.15	1.42	1.38
1	AA	498	A	N9-C4	-6.15	1.34	1.37
1	AA	749	A	N1-C2	6.15	1.39	1.34
1	AA	1228	C	C4'-C3'	-6.15	1.46	1.53
26	BB	404	A	N7-C5	6.15	1.43	1.39
26	BB	446	G	C2-N2	-6.15	1.28	1.34
26	BB	1104	C	C2-N3	-6.15	1.30	1.35
26	BB	2520	C	C4-C5	6.15	1.47	1.43
4	AD	62	C	O3'-P	-6.14	1.53	1.61
25	BA	24	G	O3'-P	-6.14	1.53	1.61
26	BB	1423	G	C4'-C3'	6.14	1.59	1.53
26	BB	2001	C	C2-O2	-6.14	1.19	1.24
1	AA	114	U	C4-O4	6.14	1.28	1.23
1	AA	293	G	O3'-P	6.14	1.68	1.61
1	AA	1080	A	C5'-C4'	6.14	1.58	1.51
1	AA	1142	G	C5-C4	6.14	1.42	1.38
1	AA	1191	A	C6-N1	-6.14	1.31	1.35
1	AA	1333	A	C2'-C1'	6.14	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	36	A	C8-N7	-6.14	1.27	1.31
26	BB	310	A	C3'-O3'	6.14	1.50	1.42
26	BB	757	G	N7-C5	-6.14	1.35	1.39
26	BB	1460	U	O3'-P	6.14	1.68	1.61
26	BB	1482	G	N3-C4	6.14	1.39	1.35
26	BB	1989	G	N7-C5	-6.14	1.35	1.39
26	BB	2267	A	C4'-C3'	-6.14	1.46	1.53
26	BB	999	U	P-O5'	6.14	1.65	1.59
26	BB	1523	U	C5'-C4'	6.14	1.58	1.51
26	BB	1683	U	C5'-C4'	6.14	1.58	1.51
26	BB	2400	G	O3'-P	6.14	1.68	1.61
1	AA	275	G	N9-C8	-6.14	1.33	1.37
1	AA	541	G	N3-C4	6.14	1.39	1.35
1	AA	1293	C	C4-N4	6.14	1.39	1.33
26	BB	586	A	N9-C8	6.14	1.42	1.37
26	BB	616	A	C4'-C3'	-6.14	1.46	1.53
26	BB	1559	U	C2-O2	6.14	1.27	1.22
26	BB	1760	C	C4'-O4'	-6.14	1.37	1.45
26	BB	2447	G	C8-N7	6.14	1.34	1.30
26	BB	2483	C	N1-C6	6.14	1.40	1.37
26	BB	2564	A	P-O5'	6.14	1.65	1.59
26	BB	2703	C	C2'-C1'	6.14	1.60	1.53
1	AA	264	C	P-O5'	6.14	1.65	1.59
1	AA	454	G	N9-C8	6.14	1.42	1.37
26	BB	868	U	C5-C6	6.14	1.39	1.34
26	BB	1194	A	C5'-C4'	6.14	1.58	1.51
26	BB	2231	U	C2-O2	6.14	1.27	1.22
1	AA	225	C	C2'-O2'	-6.14	1.33	1.41
1	AA	242	G	P-O5'	6.14	1.65	1.59
1	AA	455	G	C2'-C1'	-6.14	1.46	1.53
26	BB	401	A	N3-C4	6.14	1.38	1.34
26	BB	2346	A	C5'-C4'	6.14	1.58	1.51
26	BB	2521	C	C4'-O4'	-6.14	1.37	1.45
1	AA	666	G	C6-N1	6.13	1.43	1.39
1	AA	1358	U	C4-C5	6.13	1.49	1.43
1	AA	1503	A	N9-C8	-6.13	1.32	1.37
26	BB	199	A	C8-N7	-6.13	1.27	1.31
26	BB	561	G	C2-N3	6.13	1.37	1.32
26	BB	943	A	N3-C4	6.13	1.38	1.34
26	BB	1730	C	N1-C6	6.13	1.40	1.37
26	BB	2153	C	C4'-C3'	6.13	1.59	1.53
1	AA	634	C	C4-C5	6.13	1.47	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	756	C	N1-C6	6.13	1.40	1.37
1	AA	837	U	N1-C2	6.13	1.44	1.38
1	AA	956	U	C2'-C1'	-6.13	1.46	1.53
1	AA	1277	C	N1-C6	6.13	1.40	1.37
29	BE	154	LYS	N-CA	6.13	1.58	1.46
1	AA	179	A	N1-C2	-6.13	1.28	1.34
1	AA	213	G	C4'-C3'	6.13	1.59	1.53
1	AA	1497	G	C4'-O4'	-6.13	1.37	1.45
4	AD	71	G	N7-C5	-6.13	1.35	1.39
25	BA	43	C	N1-C2	6.13	1.46	1.40
26	BB	338	G	P-O5'	6.13	1.65	1.59
26	BB	1054	A	O3'-P	6.13	1.68	1.61
26	BB	1476	U	C4'-C3'	-6.13	1.46	1.53
26	BB	1927	A	C6-N1	6.13	1.39	1.35
26	BB	2361	G	C5'-C4'	6.13	1.58	1.51
26	BB	2849	U	C2-O2	6.13	1.27	1.22
1	AA	8	A	P-O5'	6.13	1.65	1.59
1	AA	743	A	C8-N7	6.13	1.35	1.31
25	BA	59	A	O3'-P	-6.13	1.53	1.61
26	BB	606	U	C4'-O4'	-6.13	1.37	1.45
26	BB	637	A	P-O5'	6.13	1.65	1.59
45	BU	18	ARG	NE-CZ	6.13	1.41	1.33
1	AA	392	C	C4'-O4'	-6.13	1.37	1.45
1	AA	460	A	O3'-P	6.13	1.68	1.61
1	AA	772	U	O3'-P	6.13	1.68	1.61
26	BB	1919	A	C2'-C1'	6.13	1.60	1.53
26	BB	2083	G	N9-C4	6.13	1.42	1.38
26	BB	2239	G	N3-C4	6.13	1.39	1.35
26	BB	2524	G	N9-C4	6.13	1.42	1.38
1	AA	333	U	C4'-O4'	-6.13	1.37	1.45
1	AA	1121	U	N3-C4	6.13	1.44	1.38
3	AC	27	A	C3'-O3'	6.13	1.50	1.42
24	AX	9	GLU	CG-CD	6.13	1.61	1.51
26	BB	425	G	C6-N1	6.13	1.43	1.39
26	BB	1740	G	C2-N3	6.13	1.37	1.32
26	BB	2134	A	N3-C4	6.13	1.38	1.34
26	BB	2688	G	P-O5'	6.13	1.65	1.59
26	BB	2789	C	C4-C5	6.13	1.47	1.43
1	AA	722	G	N9-C8	6.12	1.42	1.37
3	AC	53	G	C6-N1	-6.12	1.35	1.39
26	BB	509	C	N3-C4	6.12	1.38	1.33
26	BB	944	C	N3-C4	6.12	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	229	U	C4'-O4'	-6.12	1.37	1.45
1	AA	1367	C	C2-N3	6.12	1.40	1.35
4	AD	11	A	C3'-C2'	-6.12	1.46	1.52
26	BB	1005	C	P-O5'	-6.12	1.53	1.59
26	BB	1623	G	N9-C4	-6.12	1.33	1.38
26	BB	2021	C	P-O5'	6.12	1.65	1.59
1	AA	6	G	N3-C4	6.12	1.39	1.35
1	AA	743	A	N7-C5	6.12	1.43	1.39
1	AA	1015	G	N7-C5	-6.12	1.35	1.39
26	BB	18	U	C5'-C4'	6.12	1.58	1.51
26	BB	340	A	C5'-C4'	6.12	1.58	1.51
26	BB	1437	C	C5-C6	6.12	1.39	1.34
26	BB	543	G	P-O5'	6.12	1.65	1.59
26	BB	685	A	C2-N3	6.12	1.39	1.33
26	BB	1131	G	N7-C5	6.12	1.43	1.39
26	BB	1419	A	C2'-C1'	6.12	1.60	1.53
26	BB	2859	G	N3-C4	6.12	1.39	1.35
1	AA	42	G	N1-C2	-6.12	1.32	1.37
4	AD	2	G	C5-C4	6.12	1.42	1.38
25	BA	43	C	P-O5'	6.12	1.65	1.59
26	BB	1238	G	C6-N1	6.12	1.43	1.39
26	BB	1282	U	C2'-C1'	6.12	1.60	1.53
1	AA	978	A	C4'-C3'	6.12	1.59	1.53
1	AA	1096	C	C4-N4	6.12	1.39	1.33
26	BB	1221	C	P-O5'	-6.12	1.53	1.59
26	BB	2441	U	N1-C6	6.12	1.43	1.38
26	BB	2711	A	N1-C2	-6.12	1.28	1.34
1	AA	177	G	C6-O6	-6.12	1.18	1.24
1	AA	1076	U	C4-O4	-6.12	1.18	1.23
26	BB	483	A	N7-C5	-6.12	1.35	1.39
26	BB	774	G	C6-N1	-6.12	1.35	1.39
26	BB	1365	A	C5-C6	6.12	1.46	1.41
1	AA	144	G	N7-C5	6.11	1.43	1.39
26	BB	296	U	N3-C4	6.11	1.44	1.38
26	BB	305	C	C2-O2	-6.11	1.19	1.24
26	BB	1514	G	N7-C5	-6.11	1.35	1.39
26	BB	1540	G	N9-C8	-6.11	1.33	1.37
26	BB	1799	G	N3-C4	6.11	1.39	1.35
26	BB	1899	A	C2'-C1'	-6.11	1.46	1.53
26	BB	2055	C	P-O5'	6.11	1.65	1.59
1	AA	1	A	N7-C5	6.11	1.43	1.39
1	AA	971	G	C6-N1	6.11	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	15	A	N3-C4	6.11	1.38	1.34
26	BB	972	A	N3-C4	6.11	1.38	1.34
1	AA	1280	A	N1-C2	-6.11	1.28	1.34
26	BB	68	G	O3'-P	6.11	1.68	1.61
26	BB	2040	G	N3-C4	-6.11	1.31	1.35
26	BB	2090	A	N3-C4	6.11	1.38	1.34
26	BB	2180	U	C4-O4	6.11	1.28	1.23
26	BB	2418	A	C6-N1	-6.11	1.31	1.35
26	BB	2548	U	N1-C2	6.11	1.44	1.38
1	AA	565	U	C4'-O4'	-6.11	1.37	1.45
1	AA	869	G	C2-N3	6.11	1.37	1.32
3	AC	50	U	N1-C2	6.11	1.44	1.38
26	BB	59	U	P-O5'	6.11	1.65	1.59
26	BB	961	C	C2-N3	6.11	1.40	1.35
26	BB	971	G	P-O5'	-6.11	1.53	1.59
26	BB	1989	G	P-O5'	6.11	1.65	1.59
1	AA	475	C	N1-C2	6.11	1.46	1.40
1	AA	1403	C	C2'-O2'	6.11	1.49	1.41
4	AD	37	U	N1-C2	6.11	1.44	1.38
26	BB	172	A	C5'-C4'	6.11	1.58	1.51
26	BB	376	G	C2'-O2'	-6.11	1.33	1.41
26	BB	468	G	C2-N3	6.11	1.37	1.32
26	BB	513	A	N9-C4	-6.11	1.34	1.37
26	BB	518	G	C8-N7	-6.11	1.27	1.30
26	BB	996	A	N7-C5	-6.11	1.35	1.39
26	BB	1169	A	C8-N7	-6.11	1.27	1.31
26	BB	1754	A	C5-C4	-6.11	1.34	1.38
1	AA	245	U	N3-C4	6.10	1.44	1.38
1	AA	369	G	C2-N3	6.10	1.37	1.32
26	BB	513	A	C5-C6	6.10	1.46	1.41
26	BB	2076	U	C4'-C3'	6.10	1.59	1.53
1	AA	1124	G	C8-N7	6.10	1.34	1.30
2	AB	51	G	C2'-C1'	6.10	1.60	1.53
26	BB	259	G	N9-C8	-6.10	1.33	1.37
26	BB	325	G	P-O5'	6.10	1.65	1.59
26	BB	338	G	N7-C5	6.10	1.43	1.39
26	BB	541	A	C6-N1	-6.10	1.31	1.35
26	BB	626	A	N3-C4	6.10	1.38	1.34
26	BB	1009	A	N9-C4	-6.10	1.34	1.37
26	BB	1683	U	C2'-C1'	-6.10	1.46	1.53
26	BB	1812	U	N1-C2	6.10	1.44	1.38
26	BB	2106	U	N1-C2	6.10	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2217	G	N9-C8	-6.10	1.33	1.37
26	BB	2536	G	C5'-C4'	6.10	1.58	1.51
1	AA	57	G	C2'-O2'	-6.10	1.33	1.41
1	AA	1325	C	C4'-C3'	6.10	1.59	1.53
2	AB	48	U	C2-O2	6.10	1.27	1.22
26	BB	178	G	N1-C2	-6.10	1.32	1.37
26	BB	792	A	P-O5'	6.10	1.65	1.59
26	BB	1263	U	N1-C2	6.10	1.44	1.38
6	AF	41	TYR	CE1-CZ	6.10	1.46	1.38
26	BB	233	A	P-O5'	6.10	1.65	1.59
26	BB	645	C	C2'-C1'	6.10	1.60	1.53
26	BB	1312	U	C4-C5	6.10	1.49	1.43
26	BB	1343	G	C2-N3	6.10	1.37	1.32
1	AA	1357	A	C2'-C1'	-6.10	1.46	1.53
1	AA	1432	G	P-O5'	6.10	1.65	1.59
1	AA	1536	C	C4-N4	-6.10	1.28	1.33
26	BB	13	A	C4'-O4'	-6.10	1.37	1.45
26	BB	151	C	C4'-O4'	-6.10	1.37	1.45
26	BB	985	C	O3'-P	6.10	1.68	1.61
26	BB	1291	C	C2-N3	6.10	1.40	1.35
26	BB	1520	U	C4-C5	6.10	1.49	1.43
1	AA	209	U	C4-C5	6.10	1.49	1.43
1	AA	1068	G	C2-N3	6.10	1.37	1.32
15	AO	52	CYS	CB-SG	6.10	1.92	1.82
25	BA	23	G	N9-C4	6.10	1.42	1.38
25	BA	73	A	C5-C4	-6.10	1.34	1.38
26	BB	1396	U	C5'-C4'	6.10	1.58	1.51
1	AA	63	C	O3'-P	6.09	1.68	1.61
1	AA	235	C	P-O5'	6.09	1.65	1.59
1	AA	885	G	N1-C2	-6.09	1.32	1.37
1	AA	1398	A	C5-C4	-6.09	1.34	1.38
2	AB	15	A	P-O5'	6.09	1.65	1.59
26	BB	877	A	C8-N7	-6.09	1.27	1.31
26	BB	1272	A	P-O5'	6.09	1.65	1.59
26	BB	1506	U	O3'-P	6.09	1.68	1.61
26	BB	1827	U	N1-C6	6.09	1.43	1.38
26	BB	2599	G	C5-C4	6.09	1.42	1.38
26	BB	2651	C	O4'-C1'	6.09	1.49	1.41
26	BB	83	A	N9-C8	6.09	1.42	1.37
26	BB	1357	C	N3-C4	6.09	1.38	1.33
26	BB	1708	C	C4-C5	6.09	1.47	1.43
26	BB	2723	C	C4'-O4'	-6.09	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	601	G	N9-C8	6.09	1.42	1.37
1	AA	1003	G	N1-C2	-6.09	1.32	1.37
1	AA	1481	U	C2'-O2'	6.09	1.49	1.41
26	BB	857	G	N3-C4	6.09	1.39	1.35
26	BB	1312	U	C2'-C1'	6.09	1.60	1.53
26	BB	1457	U	P-O5'	6.09	1.65	1.59
26	BB	1678	A	N3-C4	6.09	1.38	1.34
26	BB	2045	C	P-O5'	6.09	1.65	1.59
26	BB	2186	G	N9-C4	6.09	1.42	1.38
26	BB	2581	G	C5-C4	-6.09	1.34	1.38
1	AA	237	G	C4'-O4'	-6.09	1.37	1.45
1	AA	536	C	C2-N3	6.09	1.40	1.35
1	AA	755	G	N3-C4	6.09	1.39	1.35
26	BB	759	G	C2-N3	6.09	1.37	1.32
26	BB	1758	U	N1-C2	6.09	1.44	1.38
26	BB	2331	G	N9-C4	-6.09	1.33	1.38
26	BB	2722	G	N7-C5	6.09	1.43	1.39
1	AA	664	G	C2-N3	6.09	1.37	1.32
1	AA	1156	G	O3'-P	6.09	1.68	1.61
1	AA	1248	A	C8-N7	-6.09	1.27	1.31
26	BB	352	A	C5-C4	-6.09	1.34	1.38
26	BB	1031	G	N1-C2	6.09	1.42	1.37
26	BB	2360	G	N3-C4	6.09	1.39	1.35
1	AA	1432	G	C4'-C3'	6.09	1.59	1.53
4	AD	58	A	C8-N7	-6.09	1.27	1.31
25	BA	119	A	N7-C5	-6.09	1.35	1.39
26	BB	137	U	C2-N3	6.09	1.42	1.37
26	BB	1448	G	C5'-C4'	6.09	1.58	1.51
26	BB	1676	A	N7-C5	-6.09	1.35	1.39
1	AA	139	A	C5-C4	-6.08	1.34	1.38
1	AA	877	G	N7-C5	6.08	1.43	1.39
26	BB	4	U	C2'-C1'	6.08	1.60	1.53
26	BB	721	A	N9-C4	6.08	1.41	1.37
26	BB	1091	G	C8-N7	6.08	1.34	1.30
26	BB	2894	G	C4'-C3'	6.08	1.59	1.53
1	AA	457	G	N9-C8	6.08	1.42	1.37
1	AA	1041	G	P-O5'	6.08	1.65	1.59
1	AA	1157	A	C6-N6	6.08	1.38	1.33
4	AD	50	G	N7-C5	6.08	1.43	1.39
25	BA	49	C	P-O5'	6.08	1.65	1.59
26	BB	2162	G	C5-C4	6.08	1.42	1.38
26	BB	2199	A	C5'-C4'	6.08	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	10	A	C3'-C2'	6.08	1.59	1.52
1	AA	1155	A	N3-C4	6.08	1.38	1.34
1	AA	1392	G	N1-C2	6.08	1.42	1.37
26	BB	1521	G	N7-C5	6.08	1.42	1.39
26	BB	1722	A	C5'-C4'	6.08	1.58	1.51
26	BB	2179	C	C2-N3	6.08	1.40	1.35
26	BB	2396	G	C1'-N9	6.08	1.57	1.48
26	BB	2569	G	N1-C2	6.08	1.42	1.37
1	AA	1393	U	O3'-P	6.08	1.68	1.61
2	AB	1	A	C8-N7	-6.08	1.27	1.31
26	BB	672	C	C2-N3	-6.08	1.30	1.35
26	BB	823	C	O4'-C1'	6.08	1.49	1.41
26	BB	1561	C	P-O5'	6.08	1.65	1.59
26	BB	1861	G	N7-C5	6.08	1.42	1.39
26	BB	2083	G	P-O5'	6.08	1.65	1.59
1	AA	617	G	P-O5'	6.08	1.65	1.59
25	BA	109	A	N3-C4	6.08	1.38	1.34
26	BB	1029	A	C4'-O4'	-6.08	1.37	1.45
26	BB	2726	A	N7-C5	-6.08	1.35	1.39
26	BB	6	A	N9-C4	6.08	1.41	1.37
26	BB	196	A	N3-C4	6.08	1.38	1.34
26	BB	289	G	P-O5'	6.08	1.65	1.59
26	BB	653	U	C1'-N1	-6.08	1.38	1.46
26	BB	1361	G	N7-C5	6.08	1.42	1.39
26	BB	1974	C	P-O5'	6.08	1.65	1.59
1	AA	393	A	N3-C4	6.07	1.38	1.34
1	AA	1020	G	C5'-C4'	6.07	1.58	1.51
1	AA	1236	A	C2-N3	6.07	1.39	1.33
25	BA	92	C	C4-N4	6.07	1.39	1.33
26	BB	1831	G	O3'-P	6.07	1.68	1.61
26	BB	2021	C	N3-C4	6.07	1.38	1.33
26	BB	2357	G	C5'-C4'	6.07	1.58	1.51
26	BB	2426	A	N9-C8	6.07	1.42	1.37
26	BB	2700	A	N3-C4	6.07	1.38	1.34
31	BG	174	PHE	CG-CD1	6.07	1.47	1.38
1	AA	523	A	C3'-C2'	6.07	1.59	1.52
26	BB	2873	A	P-O5'	6.07	1.65	1.59
1	AA	900	A	C8-N7	-6.07	1.27	1.31
26	BB	220	G	C4'-O4'	-6.07	1.37	1.45
26	BB	403	U	N3-C4	6.07	1.44	1.38
26	BB	541	A	C5'-C4'	6.07	1.58	1.51
26	BB	590	A	C5-C6	6.07	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1133	A	N1-C2	6.07	1.39	1.34
26	BB	2623	G	C5-C4	-6.07	1.34	1.38
26	BB	2884	U	C5'-C4'	6.07	1.58	1.51
1	AA	948	C	C2'-C1'	-6.07	1.46	1.53
26	BB	490	C	N1-C6	-6.07	1.33	1.37
26	BB	2255	G	N7-C5	-6.07	1.35	1.39
26	BB	2306	C	N1-C6	6.07	1.40	1.37
26	BB	2647	U	N1-C6	6.07	1.43	1.38
1	AA	119	A	C4'-O4'	-6.07	1.37	1.45
1	AA	359	G	P-O5'	6.07	1.65	1.59
1	AA	863	U	C4'-C3'	6.07	1.59	1.53
1	AA	1220	G	N9-C8	6.07	1.42	1.37
1	AA	1451	U	N1-C2	6.07	1.44	1.38
4	AD	74	A	C8-N7	-6.07	1.27	1.31
26	BB	241	A	N3-C4	6.07	1.38	1.34
26	BB	933	A	N9-C8	6.07	1.42	1.37
26	BB	1287	A	N1-C2	6.07	1.39	1.34
26	BB	1673	G	C5-C6	6.07	1.48	1.42
26	BB	1737	G	C4'-C3'	6.07	1.59	1.53
26	BB	1867	G	C6-O6	-6.07	1.18	1.24
26	BB	2792	A	C2-N3	6.07	1.39	1.33
1	AA	752	G	C2-N3	6.07	1.37	1.32
26	BB	62	U	C1'-N1	6.07	1.57	1.48
26	BB	268	C	N1-C2	6.07	1.46	1.40
26	BB	415	A	C5'-C4'	6.07	1.58	1.51
26	BB	2189	U	C2-N3	6.07	1.42	1.37
1	AA	123	U	P-O5'	6.06	1.65	1.59
1	AA	1184	G	N1-C2	6.06	1.42	1.37
26	BB	208	C	C3'-C2'	-6.06	1.46	1.52
26	BB	2078	C	C3'-C2'	6.06	1.59	1.52
26	BB	2814	A	C3'-O3'	6.06	1.50	1.42
1	AA	417	G	N7-C5	6.06	1.42	1.39
26	BB	409	G	C3'-C2'	6.06	1.59	1.52
26	BB	837	C	C2-N3	-6.06	1.30	1.35
26	BB	1113	U	C2-O2	6.06	1.27	1.22
26	BB	1198	U	C4-O4	6.06	1.28	1.23
1	AA	662	U	C2-N3	6.06	1.42	1.37
4	AD	38	A	N7-C5	6.06	1.42	1.39
26	BB	18	U	N1-C6	6.06	1.43	1.38
26	BB	1372	U	C5'-C4'	6.06	1.58	1.51
26	BB	2755	C	C4-C5	-6.06	1.38	1.43
1	AA	968	A	C8-N7	-6.06	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	69	C	C4-C5	6.06	1.47	1.43
26	BB	1028	A	C8-N7	-6.06	1.27	1.31
26	BB	2366	A	N3-C4	6.06	1.38	1.34
4	AD	5	G	C5-C4	-6.06	1.34	1.38
26	BB	755	U	C5'-C4'	6.06	1.58	1.51
26	BB	1030	C	C4-N4	6.06	1.39	1.33
26	BB	1765	U	P-O5'	6.06	1.65	1.59
26	BB	2324	U	O3'-P	6.06	1.68	1.61
1	AA	201	G	N1-C2	6.06	1.42	1.37
26	BB	930	G	C5-C6	6.06	1.48	1.42
1	AA	750	C	C4-C5	6.05	1.47	1.43
1	AA	945	G	N3-C4	6.05	1.39	1.35
26	BB	267	C	C4'-C3'	6.05	1.59	1.53
26	BB	572	A	N9-C4	6.05	1.41	1.37
26	BB	983	A	C6-N1	-6.05	1.31	1.35
26	BB	1193	G	C6-N1	-6.05	1.35	1.39
26	BB	1800	C	P-O5'	6.05	1.65	1.59
26	BB	1866	A	C5-C4	-6.05	1.34	1.38
26	BB	2608	G	C2'-C1'	-6.05	1.46	1.53
26	BB	2766	A	C3'-O3'	6.05	1.50	1.42
2	AB	66	C	C3'-C2'	-6.05	1.46	1.52
26	BB	46	G	C4'-C3'	-6.05	1.46	1.53
26	BB	92	U	C2-N3	6.05	1.42	1.37
26	BB	228	C	C5'-C4'	6.05	1.58	1.51
26	BB	750	A	C5-C4	-6.05	1.34	1.38
1	AA	744	C	C4'-O4'	-6.05	1.37	1.45
1	AA	932	C	C2'-C1'	-6.05	1.46	1.53
1	AA	1301	U	P-O5'	6.05	1.65	1.59
4	AD	70	C	N1-C2	6.05	1.46	1.40
26	BB	320	A	N1-C2	-6.05	1.28	1.34
26	BB	679	C	P-O5'	6.05	1.65	1.59
26	BB	932	U	N1-C2	6.05	1.44	1.38
26	BB	1515	A	C5-C4	-6.05	1.34	1.38
26	BB	2300	C	C4-C5	6.05	1.47	1.43
1	AA	372	C	C4'-O4'	-6.05	1.37	1.45
1	AA	1410	A	C3'-C2'	6.05	1.59	1.52
26	BB	384	A	C5'-C4'	6.05	1.58	1.51
26	BB	1436	G	O3'-P	6.05	1.68	1.61
26	BB	1551	A	N9-C8	6.05	1.42	1.37
26	BB	1846	G	C6-O6	6.05	1.29	1.24
26	BB	1852	U	C4-C5	6.05	1.49	1.43
1	AA	15	G	P-O5'	6.05	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	531	U	C4'-O4'	-6.05	1.37	1.45
1	AA	1022	A	C5'-C4'	6.05	1.58	1.51
1	AA	1105	A	C5'-C4'	6.05	1.58	1.51
1	AA	1165	U	C4'-O4'	-6.05	1.37	1.45
26	BB	1723	G	C6-O6	-6.05	1.18	1.24
26	BB	1821	A	N1-C2	6.05	1.39	1.34
26	BB	1928	A	C6-N6	-6.05	1.29	1.33
1	AA	199	A	C4'-C3'	6.05	1.59	1.53
1	AA	604	G	C2-N3	6.05	1.37	1.32
1	AA	1392	G	N3-C4	-6.05	1.31	1.35
1	AA	1512	U	C5'-C4'	6.05	1.58	1.51
1	AA	1517	G	C2'-O2'	6.05	1.49	1.41
26	BB	112	U	N1-C6	6.05	1.43	1.38
26	BB	752	A	C6-N1	6.05	1.39	1.35
26	BB	826	U	C5-C6	6.05	1.39	1.34
45	BU	108	SER	CB-OG	6.05	1.50	1.42
1	AA	504	C	C4'-O4'	-6.04	1.37	1.45
1	AA	1287	A	C4'-C3'	6.04	1.59	1.53
26	BB	157	C	P-O5'	6.04	1.65	1.59
26	BB	1036	G	O3'-P	6.04	1.68	1.61
26	BB	1280	G	C5-C4	-6.04	1.34	1.38
26	BB	2110	G	C2'-C1'	6.04	1.59	1.53
26	BB	2426	A	C2'-C1'	-6.04	1.46	1.53
1	AA	324	G	C5-C6	6.04	1.48	1.42
1	AA	987	G	P-O5'	6.04	1.65	1.59
1	AA	1248	A	C5-C4	-6.04	1.34	1.38
1	AA	1287	A	C8-N7	-6.04	1.27	1.31
26	BB	533	G	C6-O6	-6.04	1.18	1.24
26	BB	826	U	C5'-C4'	6.04	1.58	1.51
26	BB	1153	C	N3-C4	-6.04	1.29	1.33
26	BB	1206	G	O3'-P	6.04	1.68	1.61
26	BB	1390	U	O3'-P	-6.04	1.53	1.61
26	BB	2123	G	N7-C5	6.04	1.42	1.39
26	BB	2305	U	N1-C2	6.04	1.44	1.38
26	BB	2531	A	P-O5'	6.04	1.65	1.59
1	AA	226	G	O4'-C1'	6.04	1.49	1.41
1	AA	842	U	C2-N3	-6.04	1.33	1.37
1	AA	1490	U	N1-C6	6.04	1.43	1.38
26	BB	908	C	P-O5'	6.04	1.65	1.59
26	BB	1006	C	P-O5'	6.04	1.65	1.59
26	BB	1187	G	N1-C2	6.04	1.42	1.37
26	BB	2256	G	N9-C4	-6.04	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2377	A	N3-C4	6.04	1.38	1.34
26	BB	2263	C	N1-C6	-6.04	1.33	1.37
26	BB	2463	C	C4-C5	6.04	1.47	1.43
26	BB	2625	G	N1-C2	6.04	1.42	1.37
1	AA	397	A	N9-C4	6.04	1.41	1.37
1	AA	693	G	N3-C4	6.04	1.39	1.35
1	AA	983	A	P-O5'	6.04	1.65	1.59
1	AA	1060	U	N3-C4	6.04	1.43	1.38
1	AA	1323	G	C5-C4	6.04	1.42	1.38
1	AA	1337	G	P-O5'	-6.04	1.53	1.59
26	BB	575	A	C6-N6	6.04	1.38	1.33
26	BB	699	A	P-O5'	6.04	1.65	1.59
26	BB	1258	U	C4-C5	6.04	1.49	1.43
26	BB	1876	A	P-O5'	6.04	1.65	1.59
26	BB	2724	U	P-O5'	6.04	1.65	1.59
1	AA	590	U	C5-C6	6.04	1.39	1.34
25	BA	7	G	N3-C4	-6.04	1.31	1.35
26	BB	1236	G	C2'-C1'	-6.04	1.46	1.53
1	AA	749	A	N3-C4	6.04	1.38	1.34
1	AA	877	G	N1-C2	6.04	1.42	1.37
20	AT	34	GLY	CA-C	6.04	1.61	1.51
26	BB	838	C	O3'-P	6.04	1.68	1.61
26	BB	2294	G	C5'-C4'	6.04	1.58	1.51
26	BB	2392	A	C6-N1	-6.04	1.31	1.35
26	BB	545	U	C4-O4	-6.03	1.18	1.23
26	BB	1048	A	N7-C5	-6.03	1.35	1.39
26	BB	1452	G	N1-C2	6.03	1.42	1.37
26	BB	2223	G	C2-N3	6.03	1.37	1.32
26	BB	2387	U	N1-C2	6.03	1.44	1.38
26	BB	2597	G	C5-C4	-6.03	1.34	1.38
1	AA	13	U	C4-C5	6.03	1.49	1.43
1	AA	274	A	C2'-C1'	-6.03	1.46	1.53
1	AA	846	G	C6-O6	-6.03	1.18	1.24
1	AA	1161	C	C2-N3	6.03	1.40	1.35
3	AC	59	A	N3-C4	6.03	1.38	1.34
26	BB	94	A	C2-N3	6.03	1.39	1.33
26	BB	1602	U	C2-N3	6.03	1.42	1.37
1	AA	795	C	C5-C6	6.03	1.39	1.34
26	BB	624	C	C5-C6	6.03	1.39	1.34
26	BB	852	U	C2-N3	6.03	1.42	1.37
26	BB	1192	G	C8-N7	-6.03	1.27	1.30
26	BB	1351	C	P-O5'	6.03	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2478	A	N1-C2	6.03	1.39	1.34
1	AA	418	C	C2-N3	6.03	1.40	1.35
26	BB	1616	A	N9-C4	-6.03	1.34	1.37
1	AA	619	U	C2-N3	6.03	1.42	1.37
1	AA	1133	G	C5'-C4'	6.03	1.58	1.51
25	BA	33	G	C2-N2	-6.03	1.28	1.34
26	BB	211	C	C2-N3	-6.03	1.30	1.35
26	BB	447	A	C6-N1	-6.03	1.31	1.35
26	BB	574	A	O3'-P	6.03	1.68	1.61
26	BB	1170	C	C2-O2	-6.03	1.19	1.24
26	BB	1378	A	N7-C5	6.03	1.42	1.39
1	AA	118	U	N3-C4	6.03	1.43	1.38
1	AA	169	C	C4-C5	6.03	1.47	1.43
1	AA	456	A	C6-N6	-6.03	1.29	1.33
1	AA	609	A	C6-N6	6.03	1.38	1.33
1	AA	1186	G	N9-C8	-6.03	1.33	1.37
1	AA	1346	A	N7-C5	-6.03	1.35	1.39
26	BB	2088	A	C4'-O4'	-6.03	1.37	1.45
1	AA	310	G	N3-C4	6.02	1.39	1.35
1	AA	1197	A	C5-C4	-6.02	1.34	1.38
25	BA	18	G	C2-N2	-6.02	1.28	1.34
26	BB	94	A	N9-C8	6.02	1.42	1.37
26	BB	1854	A	C6-N1	-6.02	1.31	1.35
1	AA	220	G	O3'-P	-6.02	1.53	1.61
1	AA	362	G	C2-N3	6.02	1.37	1.32
1	AA	424	G	C6-N1	6.02	1.43	1.39
3	AC	55	A	C5-C6	6.02	1.46	1.41
26	BB	507	A	C4'-C3'	6.02	1.59	1.53
26	BB	654	A	C6-N1	-6.02	1.31	1.35
26	BB	1660	G	C2'-C1'	6.02	1.59	1.53
26	BB	2660	A	C6-N1	-6.02	1.31	1.35
26	BB	1000	A	N1-C2	-6.02	1.28	1.34
26	BB	1142	A	C5'-C4'	6.02	1.58	1.51
26	BB	2159	G	O3'-P	6.02	1.68	1.61
1	AA	58	C	C4'-O4'	-6.02	1.37	1.45
1	AA	209	U	C5-C6	6.02	1.39	1.34
1	AA	557	G	C8-N7	6.02	1.34	1.30
1	AA	1367	C	C5'-C4'	6.02	1.58	1.51
26	BB	918	A	C3'-C2'	6.02	1.59	1.52
26	BB	1001	A	C2'-O2'	6.02	1.49	1.41
26	BB	1143	A	N3-C4	6.02	1.38	1.34
26	BB	1296	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	2512	C	C2'-C1'	-6.02	1.46	1.53
1	AA	174	A	N3-C4	6.02	1.38	1.34
1	AA	195	A	C5-C4	-6.02	1.34	1.38
1	AA	247	G	N9-C8	-6.02	1.33	1.37
1	AA	390	U	N3-C4	6.02	1.43	1.38
1	AA	944	G	C5-C6	6.02	1.48	1.42
1	AA	1111	A	N7-C5	-6.02	1.35	1.39
26	BB	93	G	P-O5'	6.02	1.65	1.59
26	BB	219	A	C2-N3	-6.02	1.28	1.33
26	BB	956	G	N7-C5	6.02	1.42	1.39
26	BB	2479	U	C4-C5	6.02	1.49	1.43
26	BB	2541	A	C1'-N9	6.02	1.57	1.48
1	AA	1161	C	O3'-P	6.02	1.68	1.61
4	AD	24	C	O4'-C1'	6.02	1.49	1.41
4	AD	63	C	P-O5'	6.02	1.65	1.59
26	BB	1508	A	N9-C4	6.02	1.41	1.37
1	AA	459	A	C4'-O4'	-6.01	1.37	1.45
4	AD	40	C	C5'-C4'	6.01	1.58	1.51
26	BB	618	G	N7-C5	6.01	1.42	1.39
26	BB	2234	G	P-O5'	6.01	1.65	1.59
26	BB	2646	C	C4'-O4'	-6.01	1.37	1.45
26	BB	2776	A	C5'-C4'	6.01	1.58	1.51
26	BB	2891	U	C4-C5	6.01	1.49	1.43
26	BB	486	C	C4'-C3'	6.01	1.59	1.53
26	BB	763	G	C8-N7	6.01	1.34	1.30
26	BB	2133	G	P-O5'	6.01	1.65	1.59
26	BB	2621	G	N9-C8	-6.01	1.33	1.37
1	AA	679	C	C4'-O4'	-6.01	1.37	1.45
1	AA	1232	U	P-O5'	6.01	1.65	1.59
26	BB	233	A	N3-C4	6.01	1.38	1.34
26	BB	2809	A	N9-C4	6.01	1.41	1.37
1	AA	38	G	C8-N7	-6.01	1.27	1.30
1	AA	179	A	N3-C4	6.01	1.38	1.34
1	AA	316	C	C4-C5	6.01	1.47	1.43
1	AA	1523	G	N3-C4	6.01	1.39	1.35
26	BB	1662	U	C4'-O4'	-6.01	1.37	1.45
26	BB	2425	A	C6-N1	-6.01	1.31	1.35
1	AA	1185	G	N9-C8	6.01	1.42	1.37
26	BB	1380	G	P-O5'	6.01	1.65	1.59
26	BB	2211	A	C6-N6	-6.01	1.29	1.33
26	BB	2415	G	C5-C4	6.01	1.42	1.38
26	BB	2708	G	C6-O6	-6.01	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2824	C	N1-C6	6.01	1.40	1.37
1	AA	1256	A	C8-N7	-6.00	1.27	1.31
2	AB	49	G	N1-C2	6.00	1.42	1.37
4	AD	26	C	P-O5'	6.00	1.65	1.59
1	AA	461	A	C2'-C1'	6.00	1.59	1.53
1	AA	922	G	N9-C4	-6.00	1.33	1.38
1	AA	1499	A	C6-N1	6.00	1.39	1.35
4	AD	19	G	C5-C6	6.00	1.48	1.42
26	BB	1608	A	N9-C8	6.00	1.42	1.37
26	BB	1637	A	C8-N7	-6.00	1.27	1.31
26	BB	1810	A	N3-C4	6.00	1.38	1.34
26	BB	1982	U	N1-C2	6.00	1.44	1.38
26	BB	2685	G	C6-N1	-6.00	1.35	1.39
26	BB	2875	C	P-O5'	6.00	1.65	1.59
1	AA	30	U	P-O5'	6.00	1.65	1.59
1	AA	656	G	C8-N7	-6.00	1.27	1.30
1	AA	941	G	N1-C2	6.00	1.42	1.37
4	AD	44	A	C6-N1	6.00	1.39	1.35
26	BB	918	A	C2-N3	6.00	1.39	1.33
26	BB	1642	G	P-O5'	6.00	1.65	1.59
26	BB	2239	G	C8-N7	6.00	1.34	1.30
26	BB	2536	G	C6-N1	6.00	1.43	1.39
1	AA	59	A	O3'-P	-6.00	1.53	1.61
1	AA	487	A	C2-N3	6.00	1.39	1.33
1	AA	632	U	C2-N3	6.00	1.42	1.37
25	BA	41	G	N9-C8	-6.00	1.33	1.37
26	BB	35	G	C8-N7	-6.00	1.27	1.30
26	BB	1677	A	P-O5'	6.00	1.65	1.59
1	AA	442	G	N9-C4	6.00	1.42	1.38
1	AA	1382	C	C2-O2	-6.00	1.19	1.24
25	BA	66	A	P-O5'	6.00	1.65	1.59
26	BB	649	G	N3-C4	6.00	1.39	1.35
26	BB	2643	G	C3'-C2'	6.00	1.59	1.52
1	AA	1366	C	C5-C6	6.00	1.39	1.34
1	AA	1457	G	N1-C2	6.00	1.42	1.37
2	AB	51	G	C2-N3	6.00	1.37	1.32
26	BB	270	A	C4'-C3'	6.00	1.59	1.53
26	BB	995	C	C4'-O4'	-6.00	1.37	1.45
26	BB	1930	G	C2-N3	6.00	1.37	1.32
26	BB	27	G	N7-C5	-6.00	1.35	1.39
26	BB	502	A	C4'-O4'	-6.00	1.37	1.45
26	BB	653	U	C3'-C2'	6.00	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2823	A	C4'-O4'	-6.00	1.37	1.45
1	AA	388	G	C5-C6	5.99	1.48	1.42
14	AN	116	PRO	CA-C	5.99	1.64	1.52
26	BB	16	C	N1-C2	5.99	1.46	1.40
26	BB	432	A	O3'-P	5.99	1.68	1.61
26	BB	716	A	C5'-C4'	5.99	1.58	1.51
26	BB	1219	U	C2'-C1'	-5.99	1.46	1.53
26	BB	1579	A	C4'-C3'	-5.99	1.46	1.52
26	BB	1582	C	C5'-C4'	5.99	1.58	1.51
26	BB	1908	C	C4-N4	-5.99	1.28	1.33
26	BB	2123	G	C3'-C2'	-5.99	1.46	1.52
1	AA	903	G	C8-N7	-5.99	1.27	1.30
25	BA	83	G	C6-O6	-5.99	1.18	1.24
26	BB	872	U	C4-O4	5.99	1.28	1.23
40	BP	39	PRO	N-CD	-5.99	1.39	1.47
1	AA	1303	C	N1-C2	5.99	1.46	1.40
1	AA	1329	A	O3'-P	5.99	1.68	1.61
1	AA	1376	U	C2-N3	-5.99	1.33	1.37
26	BB	569	U	P-O5'	5.99	1.65	1.59
26	BB	1337	G	C4'-O4'	-5.99	1.37	1.45
26	BB	1919	A	C5'-C4'	5.99	1.58	1.51
1	AA	1007	U	C2-N3	5.99	1.42	1.37
1	AA	1451	U	C5'-C4'	5.99	1.58	1.51
1	AA	1525	G	N3-C4	5.99	1.39	1.35
25	BA	25	U	N1-C2	-5.99	1.33	1.38
26	BB	152	A	C6-N6	-5.99	1.29	1.33
26	BB	709	U	N3-C4	5.99	1.43	1.38
26	BB	1339	G	C4'-O4'	-5.99	1.37	1.45
26	BB	2230	G	C8-N7	-5.99	1.27	1.30
26	BB	2417	C	N1-C6	5.99	1.40	1.37
1	AA	716	A	N3-C4	5.99	1.38	1.34
1	AA	1189	U	C2'-C1'	5.99	1.59	1.53
1	AA	1456	A	C2'-C1'	5.99	1.59	1.53
3	AC	33	A	N3-C4	5.99	1.38	1.34
21	AU	22	TYR	CE1-CZ	5.99	1.46	1.38
26	BB	285	G	C6-N1	5.99	1.43	1.39
26	BB	919	U	C2-O2	5.99	1.27	1.22
1	AA	93	U	P-O5'	5.99	1.65	1.59
26	BB	303	G	C8-N7	5.99	1.34	1.30
26	BB	1847	A	C2-N3	-5.99	1.28	1.33
26	BB	1981	A	N3-C4	5.99	1.38	1.34
1	AA	124	C	C4-C5	-5.98	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	AG	102	TYR	CE2-CZ	5.98	1.46	1.38
26	BB	846	U	C2-N3	5.98	1.42	1.37
1	AA	1384	C	N1-C2	5.98	1.46	1.40
26	BB	527	C	O3'-P	5.98	1.68	1.61
26	BB	656	G	N7-C5	5.98	1.42	1.39
26	BB	874	G	C5-C4	5.98	1.42	1.38
26	BB	2571	U	N1-C2	5.98	1.44	1.38
26	BB	2770	G	C4'-O4'	-5.98	1.37	1.45
1	AA	921	U	N1-C6	5.98	1.43	1.38
26	BB	750	A	N9-C8	-5.98	1.32	1.37
26	BB	919	U	P-O5'	5.98	1.65	1.59
26	BB	1709	U	C4-C5	5.98	1.49	1.43
26	BB	2210	U	C4'-C3'	-5.98	1.46	1.52
26	BB	48	G	N3-C4	5.98	1.39	1.35
26	BB	1563	U	C2-O2	5.98	1.27	1.22
26	BB	2760	C	N1-C6	-5.98	1.33	1.37
1	AA	539	A	C3'-C2'	5.98	1.59	1.52
26	BB	611	C	C3'-C2'	5.98	1.59	1.52
26	BB	714	U	P-O5'	5.98	1.65	1.59
26	BB	767	U	P-O5'	5.98	1.65	1.59
26	BB	1039	A	N9-C4	5.98	1.41	1.37
26	BB	1420	A	C6-N1	5.98	1.39	1.35
26	BB	2203	U	P-O5'	5.98	1.65	1.59
26	BB	2856	A	C5-C6	5.98	1.46	1.41
1	AA	739	C	N1-C6	5.98	1.40	1.37
26	BB	438	G	O3'-P	5.98	1.68	1.61
26	BB	993	G	C2-N2	5.98	1.40	1.34
26	BB	1547	C	N1-C2	5.98	1.46	1.40
26	BB	2138	G	N9-C4	5.98	1.42	1.38
1	AA	1309	G	C4'-O4'	-5.97	1.37	1.45
26	BB	953	G	C4'-C3'	-5.97	1.46	1.52
26	BB	1952	A	C8-N7	-5.97	1.27	1.31
26	BB	2550	G	C6-N1	5.97	1.43	1.39
26	BB	2683	C	N1-C6	5.97	1.40	1.37
1	AA	80	A	C5-C6	5.97	1.46	1.41
1	AA	169	C	C2-O2	5.97	1.29	1.24
1	AA	673	A	C5-C4	-5.97	1.34	1.38
1	AA	1044	A	C8-N7	5.97	1.35	1.31
1	AA	1228	C	N3-C4	5.97	1.38	1.33
1	AA	1398	A	N9-C8	5.97	1.42	1.37
1	AA	1496	C	C4-C5	5.97	1.47	1.43
4	AD	4	G	P-O5'	5.97	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	267	C	N1-C6	5.97	1.40	1.37
26	BB	860	U	N1-C2	5.97	1.44	1.38
26	BB	954	G	P-O5'	5.97	1.65	1.59
26	BB	1006	C	C4-C5	5.97	1.47	1.43
26	BB	1455	G	N3-C4	5.97	1.39	1.35
1	AA	841	C	N3-C4	5.97	1.38	1.33
26	BB	906	U	C2-N3	5.97	1.42	1.37
26	BB	1274	A	C6-N1	-5.97	1.31	1.35
26	BB	1808	A	C3'-O3'	5.97	1.50	1.42
26	BB	2756	U	N1-C6	5.97	1.43	1.38
1	AA	53	A	C5-C4	-5.97	1.34	1.38
1	AA	226	G	N3-C4	5.97	1.39	1.35
1	AA	232	G	C6-N1	5.97	1.43	1.39
1	AA	675	A	N3-C4	5.97	1.38	1.34
1	AA	1361	G	N9-C4	5.97	1.42	1.38
1	AA	1480	A	C6-N1	-5.97	1.31	1.35
26	BB	524	G	O3'-P	5.97	1.68	1.61
26	BB	2181	U	C5-C6	5.97	1.39	1.34
26	BB	2767	C	C5'-C4'	5.97	1.58	1.51
1	AA	1289	A	C2'-C1'	-5.97	1.46	1.53
1	AA	1408	A	N9-C8	5.97	1.42	1.37
26	BB	139	U	N1-C6	5.97	1.43	1.38
26	BB	355	U	P-O5'	5.97	1.65	1.59
26	BB	1649	G	P-O5'	5.97	1.65	1.59
26	BB	2114	A	C3'-C2'	5.97	1.59	1.52
1	AA	180	U	C5'-C4'	5.97	1.58	1.51
1	AA	570	G	C8-N7	-5.97	1.27	1.30
1	AA	1410	A	N1-C2	-5.97	1.28	1.34
26	BB	160	A	N9-C8	-5.97	1.32	1.37
26	BB	412	A	O3'-P	5.97	1.68	1.61
26	BB	846	U	C4-O4	5.97	1.28	1.23
26	BB	1804	C	C5-C6	5.97	1.39	1.34
26	BB	2528	U	N3-C4	5.97	1.43	1.38
26	BB	2686	G	C5-C4	5.97	1.42	1.38
1	AA	79	G	C5-C6	5.96	1.48	1.42
2	AB	64	U	C4'-O4'	-5.96	1.37	1.45
16	AP	92	ARG	NE-CZ	5.96	1.40	1.33
26	BB	264	C	N1-C6	5.96	1.40	1.37
26	BB	832	U	C2'-C1'	5.96	1.59	1.53
26	BB	343	C	P-O5'	5.96	1.65	1.59
26	BB	1418	G	C4'-O4'	-5.96	1.37	1.45
26	BB	1518	C	N1-C6	5.96	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	561	U	C2-N3	5.96	1.42	1.37
1	AA	940	C	C4-C5	5.96	1.47	1.43
1	AA	1019	A	C2'-O2'	5.96	1.49	1.41
1	AA	1305	G	N1-C2	5.96	1.42	1.37
1	AA	1317	C	P-O5'	5.96	1.65	1.59
26	BB	1225	G	C2'-C1'	5.96	1.59	1.53
26	BB	1237	A	C2-N3	5.96	1.39	1.33
26	BB	1605	C	C2-N3	5.96	1.40	1.35
26	BB	2419	U	N3-C4	5.96	1.43	1.38
26	BB	2448	A	C4'-O4'	-5.96	1.37	1.45
26	BB	2477	U	C2-N3	5.96	1.42	1.37
26	BB	2711	A	N7-C5	-5.96	1.35	1.39
1	AA	774	G	N9-C4	-5.96	1.33	1.38
26	BB	16	C	C5'-C4'	5.96	1.58	1.51
26	BB	440	C	N1-C6	-5.96	1.33	1.37
26	BB	470	A	C5-C4	-5.96	1.34	1.38
26	BB	836	G	C6-N1	-5.96	1.35	1.39
26	BB	1538	G	C2-N3	5.96	1.37	1.32
1	AA	522	C	N1-C6	5.96	1.40	1.37
26	BB	757	G	O3'-P	5.96	1.68	1.61
26	BB	1399	C	P-O5'	5.96	1.65	1.59
26	BB	1483	G	C2-N3	5.96	1.37	1.32
26	BB	2668	G	N7-C5	-5.96	1.35	1.39
1	AA	281	G	N1-C2	5.96	1.42	1.37
1	AA	738	C	C5-C6	-5.96	1.29	1.34
2	AB	71	C	P-O5'	5.96	1.65	1.59
26	BB	351	C	C5'-C4'	5.96	1.58	1.51
26	BB	1821	A	C5-C6	5.96	1.46	1.41
26	BB	2288	A	O3'-P	5.96	1.68	1.61
26	BB	2371	G	N1-C2	5.96	1.42	1.37
26	BB	2852	G	N1-C2	5.96	1.42	1.37
1	AA	321	A	N9-C4	5.96	1.41	1.37
1	AA	1393	U	C3'-C2'	5.96	1.59	1.52
25	BA	54	G	C6-N1	5.96	1.43	1.39
26	BB	933	A	C5'-C4'	5.96	1.58	1.51
26	BB	1352	U	C4-C5	5.96	1.49	1.43
26	BB	1537	G	C2-N3	5.96	1.37	1.32
26	BB	1795	C	C4-C5	5.96	1.47	1.43
26	BB	1818	U	C2-N3	5.96	1.42	1.37
1	AA	149	A	C2'-C1'	-5.95	1.46	1.53
1	AA	569	C	O3'-P	5.95	1.68	1.61
1	AA	1067	A	C5-C4	-5.95	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1241	G	C2'-O2'	5.95	1.49	1.41
26	BB	156	A	O3'-P	5.95	1.68	1.61
26	BB	1076	C	N3-C4	5.95	1.38	1.33
26	BB	1193	G	C6-O6	-5.95	1.18	1.24
26	BB	1355	G	C5-C4	5.95	1.42	1.38
26	BB	1783	A	O3'-P	5.95	1.68	1.61
26	BB	1929	G	C5-C4	5.95	1.42	1.38
26	BB	2161	C	C4-N4	5.95	1.39	1.33
25	BA	9	G	N3-C4	5.95	1.39	1.35
26	BB	1615	C	C2-N3	5.95	1.40	1.35
26	BB	2027	G	C8-N7	5.95	1.34	1.30
26	BB	2286	G	C6-N1	5.95	1.43	1.39
26	BB	2746	U	C5-C6	5.95	1.39	1.34
1	AA	57	G	C2-N2	-5.95	1.28	1.34
1	AA	600	A	C3'-C2'	-5.95	1.46	1.52
1	AA	671	G	O3'-P	5.95	1.68	1.61
1	AA	864	A	N7-C5	-5.95	1.35	1.39
26	BB	1148	U	N1-C2	5.95	1.44	1.38
26	BB	1904	G	N9-C8	5.95	1.42	1.37
26	BB	2302	U	C5'-C4'	5.95	1.58	1.51
26	BB	2566	A	N1-C2	-5.95	1.28	1.34
26	BB	2820	A	P-O5'	5.95	1.65	1.59
1	AA	38	G	N1-C2	5.95	1.42	1.37
1	AA	1192	C	C1'-N1	5.95	1.57	1.48
1	AA	1331	G	C2-N3	5.95	1.37	1.32
26	BB	41	C	C2-N3	5.95	1.40	1.35
26	BB	108	G	C3'-C2'	-5.95	1.46	1.52
26	BB	1151	A	C2'-C1'	-5.95	1.46	1.53
26	BB	1825	U	C2'-C1'	5.95	1.59	1.53
26	BB	1964	G	P-O5'	5.95	1.65	1.59
26	BB	2873	A	N9-C8	5.95	1.42	1.37
1	AA	1488	G	C8-N7	5.95	1.34	1.30
1	AA	584	G	P-O5'	5.95	1.65	1.59
1	AA	1063	C	N1-C2	5.95	1.46	1.40
1	AA	1445	U	C2-N3	5.95	1.42	1.37
25	BA	53	A	C8-N7	-5.95	1.27	1.31
26	BB	138	U	O3'-P	5.95	1.68	1.61
26	BB	160	A	N1-C2	5.95	1.39	1.34
26	BB	454	A	C5-C4	-5.95	1.34	1.38
26	BB	757	G	P-O5'	5.95	1.65	1.59
26	BB	1463	C	N3-C4	5.95	1.38	1.33
26	BB	1789	A	C8-N7	-5.95	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2846	G	N3-C4	5.95	1.39	1.35
1	AA	338	A	N9-C4	-5.94	1.34	1.37
1	AA	588	G	C5-C4	-5.94	1.34	1.38
4	AD	15	G	C3'-C2'	-5.94	1.46	1.52
1	AA	60	A	C8-N7	-5.94	1.27	1.31
1	AA	165	G	N1-C2	-5.94	1.32	1.37
1	AA	223	A	N9-C8	5.94	1.42	1.37
4	AD	47	A	N9-C8	-5.94	1.32	1.37
26	BB	336	C	O4'-C1'	5.94	1.49	1.41
26	BB	502	A	C2'-C1'	5.94	1.59	1.53
26	BB	621	A	C4'-C3'	-5.94	1.46	1.52
26	BB	1383	A	C4'-O4'	-5.94	1.37	1.45
26	BB	1482	G	P-O5'	5.94	1.65	1.59
26	BB	1515	A	N9-C8	-5.94	1.32	1.37
26	BB	1726	C	O3'-P	5.94	1.68	1.61
26	BB	1840	G	C2-N2	5.94	1.40	1.34
26	BB	2535	G	N1-C2	5.94	1.42	1.37
1	AA	915	A	N3-C4	5.94	1.38	1.34
4	AD	77	A	O4'-C1'	5.94	1.49	1.41
26	BB	87	U	C4'-O4'	-5.94	1.37	1.45
26	BB	834	G	C5-C4	-5.94	1.34	1.38
26	BB	1588	G	O5'-C5'	-5.94	1.33	1.42
26	BB	2107	G	N9-C8	-5.94	1.33	1.37
26	BB	2265	U	C2-N3	5.94	1.42	1.37
26	BB	2511	U	C4'-O4'	-5.94	1.37	1.45
1	AA	394	G	C6-O6	-5.94	1.18	1.24
1	AA	563	A	C5-C4	-5.94	1.34	1.38
1	AA	767	A	P-O5'	5.94	1.65	1.59
1	AA	1349	A	O3'-P	5.94	1.68	1.61
26	BB	2139	U	P-O5'	5.94	1.65	1.59
1	AA	304	U	C4'-C3'	-5.94	1.46	1.52
17	AQ	54	SER	CB-OG	-5.94	1.34	1.42
26	BB	765	C	C5-C6	5.94	1.39	1.34
26	BB	962	G	O3'-P	5.94	1.68	1.61
26	BB	1087	G	C2-N3	5.94	1.37	1.32
26	BB	1285	A	C6-N1	5.94	1.39	1.35
26	BB	1503	A	N7-C5	5.94	1.42	1.39
26	BB	1849	G	C6-O6	-5.94	1.18	1.24
26	BB	2817	U	C4'-O4'	-5.94	1.37	1.45
1	AA	498	A	C8-N7	-5.94	1.27	1.31
26	BB	786	C	P-O5'	-5.94	1.53	1.59
26	BB	1462	C	N3-C4	5.94	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	431	A	C3'-C2'	-5.93	1.46	1.52
1	AA	444	G	C2-N3	5.93	1.37	1.32
1	AA	786	G	C3'-C2'	-5.93	1.46	1.52
1	AA	1253	G	C3'-C2'	5.93	1.59	1.52
26	BB	125	A	N9-C8	5.93	1.42	1.37
26	BB	172	A	C4'-C3'	5.93	1.59	1.53
26	BB	628	G	N3-C4	5.93	1.39	1.35
26	BB	1003	G	C5-C4	-5.93	1.34	1.38
26	BB	1032	A	P-O5'	-5.93	1.53	1.59
26	BB	1982	U	C4-C5	5.93	1.48	1.43
26	BB	2166	U	C4-O4	5.93	1.28	1.23
26	BB	2439	A	N3-C4	5.93	1.38	1.34
1	AA	1398	A	C2'-O2'	5.93	1.49	1.41
26	BB	12	U	N1-C2	5.93	1.43	1.38
26	BB	258	G	C2-N3	5.93	1.37	1.32
26	BB	410	G	C2-N3	5.93	1.37	1.32
26	BB	527	C	N1-C2	5.93	1.46	1.40
26	BB	862	G	C5-C4	5.93	1.42	1.38
26	BB	1247	A	O3'-P	-5.93	1.54	1.61
26	BB	1319	C	C2'-O2'	-5.93	1.33	1.41
1	AA	518	C	P-O5'	5.93	1.65	1.59
1	AA	113	G	C5-C4	5.93	1.42	1.38
1	AA	452	A	C8-N7	5.93	1.35	1.31
1	AA	954	G	N7-C5	5.93	1.42	1.39
4	AD	12	G	C3'-C2'	5.93	1.59	1.52
26	BB	492	A	C2'-O2'	5.93	1.49	1.41
26	BB	661	A	C5-C4	5.93	1.43	1.38
26	BB	1124	G	C5-C4	-5.93	1.34	1.38
26	BB	1558	C	C4'-O4'	-5.93	1.37	1.45
26	BB	2446	G	N9-C8	5.93	1.42	1.37
1	AA	183	C	O3'-P	5.93	1.68	1.61
1	AA	536	C	N1-C6	5.93	1.40	1.37
1	AA	848	C	C2-N3	5.93	1.40	1.35
26	BB	264	C	C4'-O4'	-5.93	1.37	1.45
26	BB	1044	C	N1-C6	5.93	1.40	1.37
26	BB	1137	G	P-O5'	-5.93	1.53	1.59
26	BB	1305	C	N3-C4	5.93	1.38	1.33
26	BB	1581	G	N9-C8	5.93	1.42	1.37
26	BB	1583	A	N3-C4	5.93	1.38	1.34
26	BB	2623	G	P-O5'	5.93	1.65	1.59
35	BK	61	TYR	CE1-CZ	5.93	1.46	1.38
1	AA	53	A	C5'-C4'	5.93	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	343	C	C4-C5	5.93	1.47	1.43
26	BB	1674	G	O3'-P	-5.93	1.54	1.61
26	BB	2162	G	C6-O6	-5.93	1.18	1.24
26	BB	2398	U	C2'-O2'	5.93	1.49	1.41
26	BB	2493	U	O3'-P	5.93	1.68	1.61
26	BB	2588	G	C6-N1	5.93	1.43	1.39
1	AA	731	G	N3-C4	5.92	1.39	1.35
1	AA	888	G	N3-C4	5.92	1.39	1.35
1	AA	1049	U	C4'-C3'	-5.92	1.46	1.52
1	AA	1186	G	C4'-C3'	5.92	1.59	1.53
26	BB	116	C	O3'-P	5.92	1.68	1.61
26	BB	413	C	P-O5'	5.92	1.65	1.59
26	BB	525	U	C2-N3	5.92	1.41	1.37
26	BB	1185	G	C5-C6	5.92	1.48	1.42
26	BB	1185	G	N7-C5	-5.92	1.35	1.39
26	BB	1337	G	C6-N1	-5.92	1.35	1.39
26	BB	1700	A	C2'-C1'	5.92	1.59	1.53
26	BB	1899	A	C5-C6	5.92	1.46	1.41
26	BB	2324	U	C2'-C1'	5.92	1.59	1.53
1	AA	1329	A	N7-C5	5.92	1.42	1.39
1	AA	1437	A	C3'-C2'	-5.92	1.46	1.52
26	BB	2299	U	C4'-C3'	5.92	1.59	1.53
1	AA	4	U	C2-O2	5.92	1.27	1.22
1	AA	332	G	C8-N7	-5.92	1.27	1.30
1	AA	498	A	C2-N3	5.92	1.38	1.33
1	AA	604	G	C8-N7	-5.92	1.27	1.30
1	AA	605	U	C4-C5	5.92	1.48	1.43
1	AA	686	U	C2-N3	5.92	1.41	1.37
1	AA	730	G	N9-C8	5.92	1.42	1.37
1	AA	878	A	N7-C5	5.92	1.42	1.39
1	AA	1432	G	O3'-P	5.92	1.68	1.61
26	BB	1480	C	N1-C6	-5.92	1.33	1.37
26	BB	2723	C	C2-O2	-5.92	1.19	1.24
1	AA	230	G	N7-C5	5.92	1.42	1.39
1	AA	1164	G	C2-N3	5.92	1.37	1.32
1	AA	791	G	N9-C8	5.92	1.42	1.37
1	AA	913	A	C6-N1	5.92	1.39	1.35
1	AA	1356	G	C8-N7	5.92	1.34	1.30
26	BB	97	C	C2-N3	5.92	1.40	1.35
26	BB	118	A	C8-N7	-5.92	1.27	1.31
26	BB	319	G	C3'-C2'	5.92	1.59	1.52
26	BB	352	A	C3'-C2'	-5.92	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1464	G	C4'-O4'	-5.92	1.37	1.45
26	BB	1553	A	C6-N1	5.92	1.39	1.35
26	BB	1559	U	C3'-C2'	5.92	1.59	1.52
26	BB	2116	G	C4'-O4'	-5.92	1.37	1.45
26	BB	2484	G	N7-C5	-5.92	1.35	1.39
26	BB	2859	G	C2'-C1'	-5.92	1.46	1.53
1	AA	213	G	N1-C2	5.92	1.42	1.37
1	AA	401	C	C4'-O4'	-5.92	1.37	1.45
1	AA	1164	G	P-O5'	5.92	1.65	1.59
26	BB	1474	U	O4'-C1'	5.92	1.49	1.41
26	BB	1491	G	N9-C4	5.92	1.42	1.38
26	BB	2457	PSU	O3'-P	5.92	1.68	1.61
1	AA	1167	A	P-O5'	5.92	1.65	1.59
2	AB	39	A	C6-N6	5.92	1.38	1.33
26	BB	567	U	C4-O4	-5.92	1.19	1.23
26	BB	647	G	C5'-C4'	5.92	1.58	1.51
26	BB	2455	G	P-O5'	5.92	1.65	1.59
1	AA	1283	U	C5-C6	5.91	1.39	1.34
4	AD	51	U	C5-C6	5.91	1.39	1.34
26	BB	12	U	N3-C4	5.91	1.43	1.38
26	BB	111	A	C2-N3	-5.91	1.28	1.33
26	BB	794	A	N7-C5	5.91	1.42	1.39
26	BB	827	U	C4'-O4'	-5.91	1.37	1.45
26	BB	836	G	P-O5'	5.91	1.65	1.59
26	BB	1868	C	C4-N4	-5.91	1.28	1.33
26	BB	1994	C	C5-C6	5.91	1.39	1.34
26	BB	2349	G	C6-O6	-5.91	1.18	1.24
1	AA	232	G	N9-C8	-5.91	1.33	1.37
1	AA	382	A	C6-N1	-5.91	1.31	1.35
1	AA	943	U	C5'-C4'	5.91	1.58	1.51
1	AA	1221	G	N9-C8	5.91	1.42	1.37
1	AA	1289	A	N9-C8	-5.91	1.33	1.37
3	AC	29	G	N7-C5	5.91	1.42	1.39
26	BB	833	A	C5-C6	5.91	1.46	1.41
26	BB	1052	C	P-O5'	-5.91	1.53	1.59
26	BB	1697	G	C5'-C4'	5.91	1.58	1.51
26	BB	2049	G	P-O5'	5.91	1.65	1.59
26	BB	2103	C	C4-C5	5.91	1.47	1.43
26	BB	2249	U	O3'-P	5.91	1.68	1.61
1	AA	32	A	N7-C5	-5.91	1.35	1.39
1	AA	71	A	N9-C4	5.91	1.41	1.37
1	AA	319	G	N7-C5	5.91	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1369	C	C5-C6	5.91	1.39	1.34
1	AA	1511	G	P-O5'	5.91	1.65	1.59
25	BA	5	U	C1'-N1	5.91	1.57	1.48
26	BB	1077	A	C2'-C1'	5.91	1.59	1.53
26	BB	1795	C	N1-C6	-5.91	1.33	1.37
26	BB	2245	U	N1-C6	5.91	1.43	1.38
26	BB	2407	A	P-O5'	5.91	1.65	1.59
1	AA	649	A	O3'-P	5.91	1.68	1.61
1	AA	676	A	N7-C5	5.91	1.42	1.39
25	BA	29	A	C5'-C4'	5.91	1.58	1.51
26	BB	382	A	C5'-C4'	5.91	1.58	1.51
26	BB	2045	C	N1-C6	5.91	1.40	1.37
1	AA	614	C	N1-C6	5.91	1.40	1.37
26	BB	1046	A	C5-C4	-5.91	1.34	1.38
26	BB	1543	G	N7-C5	5.91	1.42	1.39
26	BB	2391	G	N3-C4	5.91	1.39	1.35
26	BB	2515	C	N1-C6	-5.91	1.33	1.37
26	BB	2879	A	C8-N7	5.91	1.35	1.31
38	BN	140	GLY	CA-C	5.91	1.61	1.51
1	AA	997	U	C4-C5	5.90	1.48	1.43
1	AA	1477	U	C2'-O2'	5.90	1.49	1.41
26	BB	892	A	C4'-O4'	-5.90	1.37	1.45
26	BB	2655	G	C5-C4	-5.90	1.34	1.38
26	BB	2732	G	N9-C4	5.90	1.42	1.38
1	AA	20	U	C5'-C4'	5.90	1.58	1.51
1	AA	529	G	C2-N3	5.90	1.37	1.32
1	AA	813	U	N3-C4	5.90	1.43	1.38
1	AA	938	A	O3'-P	-5.90	1.54	1.61
1	AA	1231	G	C3'-C2'	5.90	1.59	1.52
1	AA	1359	C	C2-O2	-5.90	1.19	1.24
25	BA	20	G	C4'-C3'	5.90	1.59	1.53
26	BB	1307	A	N3-C4	5.90	1.38	1.34
26	BB	1368	G	C8-N7	-5.90	1.27	1.30
26	BB	1809	A	N7-C5	-5.90	1.35	1.39
1	AA	109	A	N1-C2	-5.90	1.29	1.34
1	AA	1131	G	N7-C5	5.90	1.42	1.39
1	AA	1140	C	N3-C4	5.90	1.38	1.33
1	AA	1170	A	N3-C4	5.90	1.38	1.34
25	BA	4	C	O3'-P	5.90	1.68	1.61
26	BB	386	G	C8-N7	-5.90	1.27	1.30
26	BB	645	C	P-O5'	5.90	1.65	1.59
26	BB	1159	U	N3-C4	5.90	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2363	G	C5-C6	5.90	1.48	1.42
26	BB	2790	U	C5-C6	5.90	1.39	1.34
1	AA	266	G	P-O5'	5.90	1.65	1.59
3	AC	24	A	N3-C4	5.90	1.38	1.34
1	AA	167	A	C3'-C2'	-5.90	1.46	1.52
1	AA	657	U	N3-C4	5.90	1.43	1.38
1	AA	1177	G	N9-C4	-5.90	1.33	1.38
26	BB	768	G	C2-N2	-5.90	1.28	1.34
26	BB	857	G	P-O5'	5.90	1.65	1.59
26	BB	912	C	C5'-C4'	5.90	1.58	1.51
26	BB	1265	A	O3'-P	5.90	1.68	1.61
26	BB	1513	U	P-O5'	5.90	1.65	1.59
26	BB	1860	G	P-O5'	5.90	1.65	1.59
26	BB	1916	A	N3-C4	5.90	1.38	1.34
1	AA	246	A	N9-C8	5.90	1.42	1.37
1	AA	1173	U	N1-C2	5.90	1.43	1.38
25	BA	95	U	P-O5'	5.90	1.65	1.59
26	BB	1027	A	C5-C4	5.90	1.42	1.38
26	BB	1364	G	N9-C8	5.90	1.42	1.37
1	AA	112	G	C8-N7	5.89	1.34	1.30
1	AA	985	C	C3'-C2'	-5.89	1.46	1.52
1	AA	1250	A	N7-C5	-5.89	1.35	1.39
1	AA	1441	A	N9-C8	5.89	1.42	1.37
2	AB	67	G	C2-N3	5.89	1.37	1.32
26	BB	372	G	C2-N3	5.89	1.37	1.32
26	BB	875	G	C4'-O4'	-5.89	1.37	1.45
26	BB	1886	U	C5'-C4'	5.89	1.58	1.51
26	BB	2127	G	C2-N3	5.89	1.37	1.32
1	AA	1145	A	N7-C5	-5.89	1.35	1.39
4	AD	19	G	C3'-O3'	5.89	1.50	1.42
26	BB	1829	A	N3-C4	5.89	1.38	1.34
1	AA	125	U	N1-C6	5.89	1.43	1.38
1	AA	243	A	C6-N1	-5.89	1.31	1.35
1	AA	1258	G	N9-C4	-5.89	1.33	1.38
1	AA	852	G	C2-N3	5.89	1.37	1.32
26	BB	706	A	C5'-C4'	5.89	1.58	1.51
26	BB	1068	G	C8-N7	-5.89	1.27	1.30
26	BB	1143	A	C3'-C2'	-5.89	1.46	1.52
26	BB	1417	C	C4-C5	5.89	1.47	1.43
1	AA	971	G	N3-C4	5.89	1.39	1.35
1	AA	1537	U	C5-C6	5.89	1.39	1.34
1	AA	1538	C	P-O5'	5.89	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	25	U	P-O5'	-5.89	1.53	1.59
26	BB	287	G	N7-C5	5.89	1.42	1.39
26	BB	557	C	O3'-P	5.89	1.68	1.61
26	BB	1749	A	C5-C4	5.89	1.42	1.38
26	BB	1167	C	C2-N3	5.89	1.40	1.35
26	BB	1851	U	C4'-O4'	-5.89	1.37	1.45
26	BB	1937	A	N7-C5	5.89	1.42	1.39
26	BB	2472	G	N9-C4	-5.89	1.33	1.38
1	AA	121	U	C2-N3	5.88	1.41	1.37
1	AA	452	A	C6-N6	5.88	1.38	1.33
1	AA	639	G	N9-C8	-5.88	1.33	1.37
1	AA	650	G	C4'-C3'	-5.88	1.46	1.52
4	AD	66	C	C5'-C4'	5.88	1.58	1.51
26	BB	1492	G	O4'-C1'	5.88	1.49	1.41
26	BB	2185	U	P-O5'	5.88	1.65	1.59
1	AA	438	U	C2-O2	5.88	1.27	1.22
1	AA	832	G	C8-N7	-5.88	1.27	1.30
1	AA	1426	G	N1-C2	5.88	1.42	1.37
26	BB	580	U	C3'-O3'	5.88	1.50	1.42
26	BB	973	A	P-O5'	5.88	1.65	1.59
26	BB	1842	G	C6-N1	-5.88	1.35	1.39
26	BB	2353	G	C2-N3	5.88	1.37	1.32
26	BB	2899	A	N9-C4	5.88	1.41	1.37
1	AA	417	G	C2-N3	5.88	1.37	1.32
1	AA	674	G	N9-C8	5.88	1.42	1.37
1	AA	1092	A	C4'-O4'	-5.88	1.38	1.45
26	BB	53	A	N7-C5	5.88	1.42	1.39
26	BB	1407	G	C4'-C3'	-5.88	1.46	1.52
26	BB	1493	C	P-O5'	5.88	1.65	1.59
26	BB	2142	A	N9-C4	5.88	1.41	1.37
26	BB	2182	U	C2-O2	5.88	1.27	1.22
26	BB	336	C	C1'-N1	5.88	1.57	1.48
26	BB	422	A	P-O5'	5.88	1.65	1.59
26	BB	1207	C	C2'-C1'	5.88	1.59	1.53
1	AA	490	C	N1-C6	-5.88	1.33	1.37
1	AA	720	C	C5'-C4'	5.88	1.58	1.51
1	AA	722	G	O3'-P	-5.88	1.54	1.61
1	AA	989	U	P-O5'	5.88	1.65	1.59
1	AA	1326	U	C4-C5	-5.88	1.38	1.43
3	AC	19	A	O3'-P	5.88	1.68	1.61
26	BB	565	C	C5'-C4'	5.88	1.58	1.51
26	BB	843	G	C2-N2	5.88	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1682	G	C5-C6	5.88	1.48	1.42
26	BB	2306	C	C2-N3	-5.88	1.31	1.35
1	AA	379	C	C2-N3	5.88	1.40	1.35
1	AA	508	U	N1-C2	5.88	1.43	1.38
1	AA	580	C	C2-N3	5.88	1.40	1.35
1	AA	657	U	N1-C2	5.88	1.43	1.38
1	AA	1411	C	C2-N3	5.88	1.40	1.35
17	AQ	19	TYR	CE2-CZ	5.88	1.46	1.38
26	BB	54	G	O3'-P	5.88	1.68	1.61
26	BB	155	A	C6-N6	5.88	1.38	1.33
26	BB	424	G	N9-C8	-5.88	1.33	1.37
26	BB	600	G	O3'-P	5.88	1.68	1.61
26	BB	1243	C	C2-N3	5.88	1.40	1.35
26	BB	1623	G	C5-C4	5.88	1.42	1.38
26	BB	1738	G	C2'-C1'	5.88	1.59	1.53
26	BB	2211	A	O3'-P	5.88	1.68	1.61
1	AA	622	A	O3'-P	5.88	1.68	1.61
1	AA	1225	A	C5'-C4'	5.88	1.58	1.51
26	BB	1425	G	P-O5'	5.88	1.65	1.59
26	BB	1879	C	C2-N3	-5.88	1.31	1.35
26	BB	2068	U	P-O5'	5.88	1.65	1.59
26	BB	2253	G	N7-C5	-5.88	1.35	1.39
1	AA	399	G	P-O5'	-5.87	1.53	1.59
1	AA	480	U	C3'-C2'	-5.87	1.46	1.52
1	AA	568	G	O4'-C1'	-5.87	1.34	1.41
1	AA	1096	C	N1-C6	5.87	1.40	1.37
1	AA	1111	A	C4'-O4'	-5.87	1.38	1.45
1	AA	1531	A	N9-C4	5.87	1.41	1.37
26	BB	202	U	C3'-O3'	5.87	1.50	1.42
26	BB	309	A	P-O5'	5.87	1.65	1.59
26	BB	998	C	P-O5'	5.87	1.65	1.59
26	BB	1300	G	N3-C4	-5.87	1.31	1.35
26	BB	1420	A	N3-C4	5.87	1.38	1.34
26	BB	1545	A	P-O5'	-5.87	1.53	1.59
26	BB	2319	G	C5-C4	-5.87	1.34	1.38
1	AA	767	A	C8-N7	5.87	1.35	1.31
1	AA	1293	C	C4-C5	5.87	1.47	1.43
1	AA	1352	C	C5-C6	5.87	1.39	1.34
1	AA	1523	G	O3'-P	5.87	1.68	1.61
25	BA	76	G	C4'-C3'	-5.87	1.46	1.52
26	BB	15	G	C2-N3	5.87	1.37	1.32
26	BB	1197	G	C4'-O4'	-5.87	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1251	C	N1-C6	5.87	1.40	1.37
26	BB	1411	U	N1-C6	-5.87	1.32	1.38
26	BB	1843	C	C2'-O2'	-5.87	1.34	1.41
26	BB	2087	G	C8-N7	5.87	1.34	1.30
1	AA	249	U	O3'-P	5.87	1.68	1.61
1	AA	280	C	C4'-O4'	-5.87	1.38	1.45
1	AA	711	G	C5-C4	5.87	1.42	1.38
1	AA	817	C	O3'-P	5.87	1.68	1.61
1	AA	982	U	P-O5'	5.87	1.65	1.59
1	AA	1418	A	P-O5'	5.87	1.65	1.59
26	BB	109	C	C4-N4	5.87	1.39	1.33
26	BB	1679	A	C4'-O4'	-5.87	1.38	1.45
26	BB	2029	G	C5-C6	5.87	1.48	1.42
1	AA	918	A	N3-C4	5.87	1.38	1.34
26	BB	2094	A	N3-C4	5.87	1.38	1.34
26	BB	2159	G	C6-O6	-5.87	1.18	1.24
1	AA	538	G	C2'-O2'	-5.87	1.34	1.41
1	AA	1019	A	N3-C4	5.87	1.38	1.34
1	AA	1045	C	C4-N4	-5.87	1.28	1.33
26	BB	1103	A	C4'-O4'	-5.87	1.38	1.45
26	BB	1161	C	C4'-O4'	-5.87	1.38	1.45
1	AA	219	U	C4-C5	5.87	1.48	1.43
1	AA	398	U	P-O5'	5.87	1.65	1.59
1	AA	1100	C	C2'-O2'	5.87	1.49	1.41
1	AA	1365	G	C2-N3	5.87	1.37	1.32
1	AA	1433	A	C6-N1	-5.87	1.31	1.35
1	AA	1465	A	O4'-C1'	5.87	1.49	1.41
17	AQ	83	VAL	CB-CG1	5.87	1.65	1.52
26	BB	743	A	C6-N6	-5.87	1.29	1.33
26	BB	1805	A	C4'-O4'	-5.87	1.38	1.45
26	BB	2314	A	C6-N6	5.87	1.38	1.33
26	BB	2788	C	C2-O2	-5.87	1.19	1.24
26	BB	2885	G	C3'-C2'	5.87	1.59	1.52
26	BB	272	A	C4'-O4'	-5.86	1.38	1.45
26	BB	1093	G	C2-N3	5.86	1.37	1.32
26	BB	1646	C	C2'-O2'	5.86	1.49	1.41
26	BB	1808	A	N9-C8	5.86	1.42	1.37
26	BB	2353	G	C5-C4	-5.86	1.34	1.38
1	AA	1489	G	C2-N3	5.86	1.37	1.32
26	BB	1888	G	N3-C4	5.86	1.39	1.35
26	BB	2002	G	O3'-P	5.86	1.68	1.61
26	BB	2320	U	C2-N3	5.86	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2463	C	C4-N4	-5.86	1.28	1.33
1	AA	512	U	P-O5'	5.86	1.65	1.59
1	AA	588	G	N3-C4	5.86	1.39	1.35
1	AA	888	G	N1-C2	5.86	1.42	1.37
1	AA	1492	A	N9-C4	5.86	1.41	1.37
1	AA	1517	G	N1-C2	5.86	1.42	1.37
26	BB	1651	G	O3'-P	-5.86	1.54	1.61
26	BB	2840	C	N1-C2	5.86	1.46	1.40
30	BF	35	TYR	CE2-CZ	5.86	1.46	1.38
26	BB	31	C	N3-C4	5.86	1.38	1.33
26	BB	1201	U	N1-C2	5.86	1.43	1.38
26	BB	1253	A	C6-N1	5.86	1.39	1.35
26	BB	1847	A	N3-C4	5.86	1.38	1.34
1	AA	112	G	C5-C6	5.86	1.48	1.42
1	AA	478	A	C6-N1	5.86	1.39	1.35
25	BA	34	A	P-O5'	5.86	1.65	1.59
26	BB	94	A	C3'-C2'	-5.86	1.46	1.52
26	BB	1172	C	C4-C5	5.86	1.47	1.43
26	BB	1632	A	C8-N7	-5.86	1.27	1.31
26	BB	1633	G	C2-N3	5.86	1.37	1.32
1	AA	669	G	C5-C4	-5.86	1.34	1.38
1	AA	1016	A	N3-C4	5.86	1.38	1.34
26	BB	16	C	C2'-O2'	5.86	1.49	1.41
26	BB	145	C	N1-C6	5.86	1.40	1.37
26	BB	1051	G	N1-C2	5.86	1.42	1.37
26	BB	1219	U	O3'-P	5.86	1.68	1.61
26	BB	1227	G	C5-C4	-5.86	1.34	1.38
26	BB	1641	A	C5-C4	-5.86	1.34	1.38
26	BB	1792	G	C5'-C4'	5.86	1.58	1.51
26	BB	1973	G	N9-C8	-5.86	1.33	1.37
26	BB	2022	U	C2'-C1'	-5.86	1.47	1.53
26	BB	2363	G	N9-C8	5.86	1.42	1.37
1	AA	1153	G	C2-N3	5.85	1.37	1.32
26	BB	717	C	O3'-P	5.85	1.68	1.61
26	BB	1592	C	C2-O2	-5.85	1.19	1.24
26	BB	2396	G	C2'-C1'	-5.85	1.47	1.53
1	AA	410	G	C4'-C3'	5.85	1.59	1.53
1	AA	576	C	N3-C4	5.85	1.38	1.33
1	AA	1033	G	C2'-C1'	-5.85	1.47	1.53
26	BB	1485	U	C2-N3	5.85	1.41	1.37
26	BB	2013	A	O3'-P	5.85	1.68	1.61
26	BB	2038	G	C4'-C3'	5.85	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1080	A	P-O5'	5.85	1.65	1.59
26	BB	331	C	C5'-C4'	5.85	1.58	1.51
26	BB	620	G	N9-C4	-5.85	1.33	1.38
26	BB	1359	A	C6-N6	-5.85	1.29	1.33
26	BB	2267	A	C2'-C1'	-5.85	1.47	1.53
1	AA	341	C	N1-C6	5.85	1.40	1.37
1	AA	949	A	C4'-C3'	-5.85	1.46	1.52
1	AA	1179	A	C6-N1	5.85	1.39	1.35
1	AA	1279	G	C4'-C3'	5.85	1.59	1.53
2	AB	41	C	N1-C6	5.85	1.40	1.37
26	BB	254	G	C6-N1	-5.85	1.35	1.39
26	BB	537	G	C4'-O4'	-5.85	1.38	1.45
26	BB	935	C	C4'-C3'	5.85	1.59	1.53
26	BB	1099	G	N1-C2	5.85	1.42	1.37
26	BB	1236	G	C5'-C4'	5.85	1.58	1.51
26	BB	2391	G	C4'-O4'	-5.85	1.38	1.45
1	AA	457	G	C2-N3	5.85	1.37	1.32
1	AA	1125	U	C5-C6	5.85	1.39	1.34
26	BB	1202	G	C5-C6	5.85	1.48	1.42
26	BB	1225	G	C5-C4	5.85	1.42	1.38
26	BB	1748	C	C5-C6	5.85	1.39	1.34
26	BB	1833	C	C4-C5	5.85	1.47	1.43
26	BB	2120	G	C2-N3	5.85	1.37	1.32
26	BB	2383	G	N9-C8	-5.85	1.33	1.37
26	BB	2736	A	C8-N7	-5.85	1.27	1.31
26	BB	2806	C	C4'-O4'	-5.85	1.38	1.45
4	AD	64	G	C5-C6	5.85	1.48	1.42
26	BB	1340	U	N1-C6	5.85	1.43	1.38
26	BB	1503	A	O4'-C1'	5.85	1.49	1.41
26	BB	2636	C	C2-N3	-5.85	1.31	1.35
1	AA	138	G	N9-C8	5.84	1.42	1.37
1	AA	253	A	P-O5'	5.84	1.65	1.59
1	AA	292	G	C2'-C1'	5.84	1.59	1.53
1	AA	763	G	N7-C5	5.84	1.42	1.39
1	AA	1352	C	C2'-O2'	5.84	1.49	1.41
26	BB	375	G	N7-C5	-5.84	1.35	1.39
26	BB	461	C	N1-C6	5.84	1.40	1.37
26	BB	1343	G	O4'-C1'	5.84	1.49	1.41
26	BB	1633	G	N1-C2	5.84	1.42	1.37
26	BB	1860	G	N1-C2	5.84	1.42	1.37
26	BB	2118	U	C2-N3	5.84	1.41	1.37
26	BB	2243	U	C4'-C3'	-5.84	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2358	A	N7-C5	5.84	1.42	1.39
26	BB	2384	U	C4-C5	5.84	1.48	1.43
26	BB	2671	G	P-O5'	5.84	1.65	1.59
1	AA	942	G	N1-C2	5.84	1.42	1.37
1	AA	1163	A	C6-N1	-5.84	1.31	1.35
1	AA	1442	G	N9-C4	5.84	1.42	1.38
26	BB	870	U	C2-N3	5.84	1.41	1.37
26	BB	2410	G	C2-N3	5.84	1.37	1.32
1	AA	315	A	C5'-C4'	5.84	1.58	1.51
1	AA	754	C	C4-C5	5.84	1.47	1.43
26	BB	512	G	O3'-P	5.84	1.68	1.61
26	BB	2266	A	N3-C4	5.84	1.38	1.34
26	BB	2649	C	P-O5'	5.84	1.65	1.59
1	AA	202	G	N7-C5	5.84	1.42	1.39
3	AC	32	U	C5'-C4'	5.84	1.58	1.51
26	BB	542	C	C5'-C4'	5.84	1.58	1.51
26	BB	725	G	C2'-C1'	-5.84	1.47	1.53
26	BB	851	C	C3'-O3'	-5.84	1.33	1.42
26	BB	1272	A	C8-N7	5.84	1.35	1.31
26	BB	1310	G	C2'-C1'	-5.84	1.47	1.53
26	BB	1732	C	C2'-C1'	-5.84	1.47	1.53
26	BB	1740	G	C5-C4	-5.84	1.34	1.38
26	BB	2199	A	N3-C4	5.84	1.38	1.34
26	BB	2505	G	C6-N1	5.84	1.43	1.39
2	AB	38	A	C4'-O4'	-5.84	1.38	1.45
25	BA	57	A	P-O5'	5.84	1.65	1.59
25	BA	112	G	C2-N3	5.84	1.37	1.32
26	BB	593	U	O3'-P	5.84	1.68	1.61
26	BB	2278	A	C8-N7	-5.84	1.27	1.31
1	AA	98	A	C3'-C2'	5.83	1.59	1.52
1	AA	1211	U	C4'-O4'	-5.83	1.38	1.45
1	AA	1530	G	C5-C4	5.83	1.42	1.38
26	BB	68	G	C4'-O4'	-5.83	1.38	1.45
26	BB	1466	U	C5-C6	5.83	1.39	1.34
26	BB	1869	G	C6-O6	-5.83	1.18	1.24
1	AA	40	C	C5-C6	5.83	1.39	1.34
1	AA	403	C	N3-C4	5.83	1.38	1.33
1	AA	470	C	C5-C6	5.83	1.39	1.34
1	AA	990	C	C5'-C4'	5.83	1.58	1.51
1	AA	1395	C	C2'-C1'	5.83	1.59	1.53
1	AA	1459	G	C5-C6	5.83	1.48	1.42
26	BB	386	G	C4'-O4'	-5.83	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1741	C	C4'-C3'	5.83	1.59	1.53
26	BB	2099	U	C5-C6	5.83	1.39	1.34
26	BB	2438	U	C4-C5	5.83	1.48	1.43
26	BB	2458	G	O3'-P	5.83	1.68	1.61
26	BB	2474	U	C4-C5	-5.83	1.38	1.43
26	BB	2531	A	O3'-P	-5.83	1.54	1.61
1	AA	293	G	N9-C4	5.83	1.42	1.38
25	BA	113	C	O3'-P	5.83	1.68	1.61
26	BB	182	A	C4'-O4'	-5.83	1.38	1.45
26	BB	339	U	N3-C4	5.83	1.43	1.38
26	BB	388	G	C2'-C1'	5.83	1.59	1.53
26	BB	669	G	P-O5'	5.83	1.65	1.59
26	BB	900	A	N7-C5	5.83	1.42	1.39
26	BB	1202	G	N7-C5	5.83	1.42	1.39
26	BB	1481	U	C2-N3	5.83	1.41	1.37
26	BB	2423	U	P-O5'	5.83	1.65	1.59
26	BB	1348	C	C2-N3	5.83	1.40	1.35
26	BB	1384	A	N9-C4	-5.83	1.34	1.37
1	AA	733	G	C6-N1	5.83	1.43	1.39
26	BB	163	C	N1-C6	5.83	1.40	1.37
26	BB	845	A	C2-N3	5.83	1.38	1.33
26	BB	2419	U	C2-O2	5.83	1.27	1.22
1	AA	199	A	N9-C4	5.83	1.41	1.37
26	BB	591	U	P-O5'	5.83	1.65	1.59
39	BO	31	PHE	CG-CD1	5.83	1.47	1.38
1	AA	87	C	O4'-C1'	5.83	1.49	1.41
1	AA	107	G	O3'-P	5.83	1.68	1.61
1	AA	305	G	N1-C2	5.83	1.42	1.37
1	AA	367	U	N3-C4	5.83	1.43	1.38
1	AA	1217	C	C3'-C2'	-5.83	1.46	1.52
26	BB	179	C	C4'-O4'	-5.83	1.38	1.45
26	BB	194	G	C5-C6	-5.83	1.36	1.42
26	BB	326	G	N9-C8	-5.83	1.33	1.37
26	BB	361	G	C2-N3	5.83	1.37	1.32
26	BB	424	G	C2'-O2'	5.83	1.49	1.41
26	BB	886	A	C6-N1	-5.83	1.31	1.35
26	BB	911	A	N9-C8	-5.83	1.33	1.37
26	BB	2318	G	C2'-C1'	5.83	1.59	1.53
1	AA	260	G	N1-C2	5.82	1.42	1.37
1	AA	908	A	C5-C6	-5.82	1.35	1.41
1	AA	1414	U	C2-O2	5.82	1.27	1.22
3	AC	45	G	N7-C5	-5.82	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	71	A	C5-C6	5.82	1.46	1.41
26	BB	178	G	P-O5'	5.82	1.65	1.59
26	BB	198	C	C2-N3	-5.82	1.31	1.35
26	BB	397	U	O3'-P	-5.82	1.54	1.61
26	BB	584	C	C4-C5	5.82	1.47	1.43
26	BB	599	A	P-O5'	-5.82	1.53	1.59
26	BB	796	C	C2'-C1'	-5.82	1.47	1.53
26	BB	1557	C	O3'-P	-5.82	1.54	1.61
26	BB	1783	A	C3'-C2'	5.82	1.59	1.52
26	BB	2009	A	N1-C2	-5.82	1.29	1.34
26	BB	2330	G	P-O5'	5.82	1.65	1.59
26	BB	2884	U	P-O5'	5.82	1.65	1.59
1	AA	185	U	N1-C6	-5.82	1.32	1.38
1	AA	483	C	N1-C2	-5.82	1.34	1.40
1	AA	1040	U	C4-O4	-5.82	1.19	1.23
25	BA	96	G	C6-N1	5.82	1.43	1.39
26	BB	393	C	C2-N3	5.82	1.40	1.35
26	BB	2337	G	O3'-P	5.82	1.68	1.61
26	BB	2574	G	N3-C4	-5.82	1.31	1.35
48	BX	31	TYR	CE1-CZ	5.82	1.46	1.38
1	AA	61	G	N9-C8	5.82	1.42	1.37
1	AA	181	A	N1-C2	-5.82	1.29	1.34
1	AA	515	G	N3-C4	5.82	1.39	1.35
1	AA	1507	A	N7-C5	5.82	1.42	1.39
2	AB	67	G	C2'-C1'	-5.82	1.47	1.53
3	AC	15	G	C5-C4	-5.82	1.34	1.38
25	BA	13	G	N9-C4	-5.82	1.33	1.38
26	BB	619	G	N9-C4	-5.82	1.33	1.38
26	BB	1081	U	P-O5'	5.82	1.65	1.59
26	BB	1120	G	N1-C2	5.82	1.42	1.37
26	BB	1121	C	O3'-P	5.82	1.68	1.61
26	BB	1370	C	C3'-O3'	-5.82	1.34	1.42
26	BB	2284	A	C5'-C4'	5.82	1.58	1.51
26	BB	2464	G	C8-N7	-5.82	1.27	1.30
26	BB	2747	G	N3-C4	5.82	1.39	1.35
26	BB	627	A	C4'-O4'	-5.82	1.38	1.45
26	BB	1317	G	C2-N3	5.82	1.37	1.32
26	BB	1634	A	C4'-O4'	-5.82	1.38	1.45
26	BB	1848	A	C5'-C4'	5.82	1.58	1.51
1	AA	377	G	N3-C4	5.82	1.39	1.35
1	AA	843	U	C2-O2	5.82	1.27	1.22
25	BA	102	G	C4'-O4'	-5.82	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	311	A	C5-C6	-5.82	1.35	1.41
26	BB	1075	C	N1-C6	-5.82	1.33	1.37
26	BB	1648	U	C2'-C1'	5.82	1.59	1.53
26	BB	1648	U	N3-C4	5.82	1.43	1.38
26	BB	1809	A	C5-C6	5.82	1.46	1.41
26	BB	1882	U	C2'-O2'	-5.82	1.34	1.41
26	BB	2000	C	C2-O2	-5.82	1.19	1.24
1	AA	1284	C	N1-C6	5.82	1.40	1.37
25	BA	61	G	P-O5'	5.82	1.65	1.59
26	BB	887	U	O3'-P	5.82	1.68	1.61
26	BB	1133	A	C2'-O2'	-5.82	1.34	1.41
26	BB	1429	G	C6-N1	5.82	1.43	1.39
26	BB	1523	U	C2-N3	5.82	1.41	1.37
26	BB	1652	A	N7-C5	-5.82	1.35	1.39
26	BB	1717	A	C8-N7	-5.82	1.27	1.31
26	BB	325	G	C4'-C3'	5.81	1.59	1.53
26	BB	1486	U	C2-O2	5.81	1.27	1.22
26	BB	2832	U	C2'-O2'	5.81	1.49	1.41
1	AA	659	U	C5'-C4'	5.81	1.58	1.51
1	AA	991	U	N1-C6	-5.81	1.32	1.38
26	BB	53	A	C6-N1	-5.81	1.31	1.35
26	BB	882	G	O3'-P	5.81	1.68	1.61
26	BB	1003	G	C8-N7	5.81	1.34	1.30
26	BB	1089	A	C6-N6	-5.81	1.29	1.33
26	BB	1310	G	N9-C4	5.81	1.42	1.38
26	BB	2402	U	C3'-C2'	-5.81	1.46	1.52
26	BB	2645	G	C2-N3	5.81	1.37	1.32
1	AA	151	A	C6-N1	-5.81	1.31	1.35
26	BB	2163	A	C2'-O2'	5.81	1.49	1.41
26	BB	2218	G	C5-C4	-5.81	1.34	1.38
1	AA	250	A	N9-C8	5.81	1.42	1.37
1	AA	334	C	O3'-P	-5.81	1.54	1.61
1	AA	393	A	C4'-C3'	5.81	1.59	1.53
2	AB	51	G	N7-C5	-5.81	1.35	1.39
25	BA	56	G	N7-C5	-5.81	1.35	1.39
26	BB	20	C	C4-C5	5.81	1.47	1.43
26	BB	37	C	O3'-P	-5.81	1.54	1.61
26	BB	42	A	C2-N3	5.81	1.38	1.33
26	BB	939	G	C2'-C1'	5.81	1.59	1.53
26	BB	972	A	N9-C8	5.81	1.42	1.37
26	BB	1127	A	N3-C4	5.81	1.38	1.34
26	BB	1201	U	C5'-C4'	5.81	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1269	A	C8-N7	-5.81	1.27	1.31
26	BB	1441	G	C6-O6	-5.81	1.19	1.24
26	BB	1932	A	C8-N7	-5.81	1.27	1.31
26	BB	2519	U	C5-C6	5.81	1.39	1.34
1	AA	315	A	N9-C8	-5.81	1.33	1.37
1	AA	422	C	P-O5'	5.81	1.65	1.59
1	AA	719	C	C4-C5	5.81	1.47	1.43
1	AA	752	G	N9-C8	5.81	1.42	1.37
1	AA	780	A	O3'-P	5.81	1.68	1.61
1	AA	1311	A	N1-C2	5.81	1.39	1.34
26	BB	984	A	C8-N7	-5.81	1.27	1.31
26	BB	1465	G	P-O5'	5.81	1.65	1.59
26	BB	1994	C	C5'-C4'	5.81	1.58	1.51
26	BB	2017	U	C4'-O4'	-5.81	1.38	1.45
26	BB	2642	G	N9-C8	-5.81	1.33	1.37
1	AA	270	A	C6-N1	-5.81	1.31	1.35
26	BB	332	A	C5'-C4'	5.81	1.58	1.51
26	BB	540	C	N3-C4	5.81	1.38	1.33
26	BB	1307	A	P-O5'	-5.81	1.53	1.59
26	BB	1436	G	N3-C4	5.81	1.39	1.35
26	BB	1718	G	P-O5'	-5.81	1.53	1.59
26	BB	1866	A	C2'-C1'	5.81	1.59	1.53
1	AA	427	U	C4-C5	5.80	1.48	1.43
1	AA	829	G	C5-C4	5.80	1.42	1.38
1	AA	1270	G	C6-N1	5.80	1.43	1.39
26	BB	494	G	N9-C4	5.80	1.42	1.38
26	BB	837	C	C4'-O4'	-5.80	1.38	1.45
26	BB	1377	G	C2-N3	5.80	1.37	1.32
26	BB	1513	U	C2'-C1'	5.80	1.59	1.53
26	BB	2673	G	C8-N7	-5.80	1.27	1.30
26	BB	2710	C	C4'-C3'	5.80	1.59	1.53
4	AD	17	C	N1-C6	5.80	1.40	1.37
26	BB	2117	A	C4'-C3'	-5.80	1.46	1.52
1	AA	1160	G	N9-C8	5.80	1.42	1.37
1	AA	1309	G	C2-N3	5.80	1.37	1.32
1	AA	1315	U	O4'-C1'	5.80	1.49	1.41
3	AC	48	C	C4-N4	5.80	1.39	1.33
26	BB	1192	G	C5'-C4'	5.80	1.58	1.51
26	BB	1706	C	C4-C5	5.80	1.47	1.43
26	BB	2452	C	C4-N4	5.80	1.39	1.33
26	BB	2455	G	N3-C4	5.80	1.39	1.35
26	BB	2489	U	C4-O4	5.80	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2831	G	C4'-O4'	-5.80	1.38	1.45
1	AA	1438	G	O3'-P	5.80	1.68	1.61
3	AC	24	A	C1'-N9	5.80	1.57	1.48
26	BB	250	G	N1-C2	5.80	1.42	1.37
26	BB	455	C	C2-N3	5.80	1.40	1.35
26	BB	630	G	C2-N3	5.80	1.37	1.32
26	BB	1741	C	P-O5'	-5.80	1.53	1.59
26	BB	1754	A	N3-C4	5.80	1.38	1.34
1	AA	144	G	C6-N1	5.80	1.43	1.39
1	AA	1072	G	C2'-O2'	5.80	1.49	1.41
1	AA	1366	C	P-O5'	-5.80	1.53	1.59
26	BB	790	U	C4-C5	5.80	1.48	1.43
26	BB	2167	U	C2'-C1'	-5.80	1.47	1.53
26	BB	2481	G	N9-C8	5.80	1.42	1.37
1	AA	1523	G	C2'-C1'	-5.80	1.47	1.53
4	AD	43	G	C3'-C2'	5.80	1.59	1.52
26	BB	663	G	C2-N3	5.80	1.37	1.32
26	BB	965	C	P-O5'	-5.80	1.53	1.59
26	BB	971	G	C5-C4	-5.80	1.34	1.38
26	BB	1237	A	C6-N1	5.80	1.39	1.35
26	BB	2133	G	N1-C2	5.80	1.42	1.37
26	BB	2566	A	O3'-P	5.80	1.68	1.61
1	AA	534	U	C1'-N1	5.79	1.57	1.48
1	AA	1520	C	P-O5'	5.79	1.65	1.59
26	BB	2531	A	N1-C2	-5.79	1.29	1.34
1	AA	36	C	C2-O2	-5.79	1.19	1.24
1	AA	601	G	C5-C4	-5.79	1.34	1.38
26	BB	129	C	N1-C6	5.79	1.40	1.37
26	BB	1804	C	N1-C6	5.79	1.40	1.37
1	AA	855	U	C4-C5	-5.79	1.38	1.43
26	BB	307	G	P-O5'	5.79	1.65	1.59
26	BB	1112	G	C8-N7	5.79	1.34	1.30
26	BB	1628	G	C6-N1	5.79	1.43	1.39
26	BB	1692	U	C5-C6	5.79	1.39	1.34
26	BB	2115	G	N3-C4	5.79	1.39	1.35
26	BB	2519	U	P-O5'	5.79	1.65	1.59
26	BB	2632	A	N7-C5	5.79	1.42	1.39
1	AA	48	C	N1-C6	5.79	1.40	1.37
26	BB	268	C	O3'-P	5.79	1.68	1.61
26	BB	352	A	O4'-C1'	5.79	1.49	1.41
1	AA	1058	G	P-O5'	5.79	1.65	1.59
1	AA	1147	C	C5'-C4'	5.79	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	420	C	C3'-C2'	5.79	1.59	1.52
26	BB	833	A	N9-C8	-5.79	1.33	1.37
26	BB	2218	G	C5'-C4'	5.79	1.58	1.51
26	BB	2794	C	C5'-C4'	5.79	1.58	1.51
26	BB	2826	A	P-O5'	-5.79	1.53	1.59
1	AA	310	G	C5'-C4'	5.79	1.58	1.51
1	AA	344	A	C1'-N9	5.79	1.57	1.48
2	AB	42	G	C5'-C4'	5.79	1.58	1.51
26	BB	442	G	N9-C8	-5.79	1.33	1.37
26	BB	1239	G	N9-C8	5.79	1.42	1.37
26	BB	1594	U	P-O5'	5.79	1.65	1.59
26	BB	1768	C	C2'-C1'	5.79	1.59	1.53
1	AA	786	G	C4'-O4'	-5.79	1.38	1.45
1	AA	1048	G	P-O5'	5.79	1.65	1.59
26	BB	519	U	N3-C4	5.79	1.43	1.38
26	BB	1294	U	C4'-C3'	5.79	1.59	1.53
26	BB	1487	U	N3-C4	5.79	1.43	1.38
26	BB	1762	A	N9-C8	-5.79	1.33	1.37
26	BB	1807	G	C5-C6	5.79	1.48	1.42
26	BB	1867	G	C4'-C3'	5.79	1.59	1.53
26	BB	2887	A	C5'-C4'	5.79	1.58	1.51
1	AA	1028	C	P-O5'	5.78	1.65	1.59
26	BB	102	U	C2'-C1'	-5.78	1.47	1.53
26	BB	205	G	N3-C4	5.78	1.39	1.35
26	BB	375	G	O3'-P	5.78	1.68	1.61
26	BB	894	U	C4-C5	5.78	1.48	1.43
26	BB	1755	A	N1-C2	-5.78	1.29	1.34
26	BB	2410	G	C5-C4	5.78	1.42	1.38
26	BB	2699	C	P-O5'	5.78	1.65	1.59
1	AA	930	C	C5'-C4'	5.78	1.58	1.51
9	AI	4	TYR	CE2-CZ	5.78	1.46	1.38
26	BB	1338	G	C4'-O4'	-5.78	1.38	1.45
26	BB	2479	U	C5'-C4'	5.78	1.58	1.51
1	AA	133	U	C2-N3	5.78	1.41	1.37
1	AA	758	C	C2-O2	-5.78	1.19	1.24
1	AA	926	G	C4'-O4'	-5.78	1.38	1.45
1	AA	1358	U	C2-N3	5.78	1.41	1.37
26	BB	20	C	C1'-N1	5.78	1.57	1.48
26	BB	1087	G	C2'-C1'	-5.78	1.47	1.53
26	BB	1767	G	C6-O6	-5.78	1.19	1.24
26	BB	1799	G	N1-C2	5.78	1.42	1.37
26	BB	2536	G	C4'-O4'	-5.78	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2848	G	C8-N7	5.78	1.34	1.30
1	AA	568	G	C5-C4	-5.78	1.34	1.38
1	AA	1379	G	C5'-C4'	5.78	1.58	1.51
26	BB	367	G	C2'-C1'	-5.78	1.47	1.53
26	BB	1305	C	C4'-C3'	5.78	1.59	1.53
1	AA	194	C	C2-O2	-5.78	1.19	1.24
1	AA	293	G	C5-C4	5.78	1.42	1.38
1	AA	829	G	N9-C8	5.78	1.41	1.37
26	BB	944	C	C2'-C1'	-5.78	1.47	1.53
26	BB	1037	G	P-O5'	5.78	1.65	1.59
26	BB	2572	A	O3'-P	5.78	1.68	1.61
1	AA	592	G	C4'-O4'	-5.78	1.38	1.45
26	BB	390	U	C2-O2	-5.78	1.17	1.22
26	BB	738	G	N9-C8	-5.78	1.33	1.37
26	BB	818	G	C2-N3	5.78	1.37	1.32
26	BB	1075	C	C5-C6	5.78	1.39	1.34
26	BB	1319	C	C4-N4	5.78	1.39	1.33
26	BB	1708	C	N1-C6	5.78	1.40	1.37
26	BB	1869	G	N3-C4	5.78	1.39	1.35
26	BB	2193	G	C4'-O4'	-5.78	1.38	1.45
1	AA	940	C	C2-N3	5.77	1.40	1.35
1	AA	1147	C	C4-C5	5.77	1.47	1.43
26	BB	507	A	O3'-P	5.77	1.68	1.61
26	BB	1275	A	C2-N3	-5.77	1.28	1.33
26	BB	1331	G	N7-C5	5.77	1.42	1.39
1	AA	171	A	C5-C6	5.77	1.46	1.41
1	AA	921	U	C5'-C4'	5.77	1.58	1.51
1	AA	964	A	C6-N6	-5.77	1.29	1.33
26	BB	50	U	N1-C6	5.77	1.43	1.38
26	BB	461	C	O3'-P	5.77	1.68	1.61
26	BB	736	C	C4'-O4'	-5.77	1.38	1.45
26	BB	1246	A	C4'-O4'	-5.77	1.38	1.45
26	BB	1410	G	C5-C4	5.77	1.42	1.38
26	BB	2629	U	C2-N3	5.77	1.41	1.37
26	BB	2792	A	N7-C5	5.77	1.42	1.39
1	AA	132	C	N1-C6	5.77	1.40	1.37
1	AA	818	G	C8-N7	-5.77	1.27	1.30
1	AA	1274	A	C5-C6	5.77	1.46	1.41
26	BB	501	A	C2'-C1'	-5.77	1.47	1.53
26	BB	764	A	C4'-O4'	-5.77	1.38	1.45
26	BB	1225	G	N1-C2	5.77	1.42	1.37
1	AA	85	U	O3'-P	5.77	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	998	C	N3-C4	-5.77	1.29	1.33
1	AA	1140	C	N1-C2	5.77	1.46	1.40
1	AA	1266	G	C2'-C1'	5.77	1.59	1.53
1	AA	1328	C	N1-C6	-5.77	1.33	1.37
2	AB	68	C	N3-C4	5.77	1.38	1.33
26	BB	263	G	N1-C2	5.77	1.42	1.37
26	BB	328	U	C5'-C4'	5.77	1.58	1.51
26	BB	1507	C	N1-C6	5.77	1.40	1.37
26	BB	2370	G	C5-C4	5.77	1.42	1.38
1	AA	92	U	C5'-C4'	5.77	1.58	1.51
1	AA	126	G	N9-C8	5.77	1.41	1.37
1	AA	663	A	C6-N1	-5.77	1.31	1.35
1	AA	678	U	C2'-C1'	5.77	1.59	1.53
1	AA	1126	U	N1-C2	5.77	1.43	1.38
26	BB	201	C	C4'-O4'	-5.77	1.38	1.45
26	BB	211	C	C5'-C4'	5.77	1.58	1.51
26	BB	550	C	O4'-C1'	5.77	1.49	1.41
26	BB	669	G	C3'-C2'	-5.77	1.46	1.52
26	BB	1068	G	C3'-C2'	5.77	1.59	1.52
26	BB	1230	A	C2-N3	5.77	1.38	1.33
26	BB	1408	G	C5-C6	5.77	1.48	1.42
26	BB	2040	G	C6-N1	5.77	1.43	1.39
26	BB	2132	U	C4'-O4'	-5.77	1.38	1.45
26	BB	2599	G	N1-C2	5.77	1.42	1.37
4	AD	58	A	C5'-C4'	5.77	1.58	1.51
25	BA	60	C	C2'-C1'	5.77	1.59	1.53
26	BB	1058	U	N1-C6	5.77	1.43	1.38
26	BB	1234	U	C2'-C1'	5.77	1.59	1.53
1	AA	648	A	C5-C4	-5.76	1.34	1.38
1	AA	854	U	C4'-O4'	-5.76	1.38	1.45
1	AA	1066	C	C5'-C4'	5.76	1.58	1.51
26	BB	765	C	C5'-C4'	5.76	1.58	1.51
26	BB	1229	C	N1-C2	5.76	1.46	1.40
26	BB	1697	G	N9-C8	-5.76	1.33	1.37
26	BB	2511	U	N1-C2	5.76	1.43	1.38
26	BB	2598	A	C2'-O2'	5.76	1.49	1.41
26	BB	2736	A	N7-C5	5.76	1.42	1.39
26	BB	2750	A	C3'-C2'	5.76	1.59	1.52
1	AA	1014	A	C6-N1	-5.76	1.31	1.35
1	AA	1182	G	C5-C4	5.76	1.42	1.38
3	AC	54	U	C2'-C1'	5.76	1.59	1.53
4	AD	62	C	C2-N3	5.76	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1070	A	C2-N3	5.76	1.38	1.33
26	BB	2217	G	C4'-C3'	5.76	1.59	1.53
1	AA	162	A	C5-C6	5.76	1.46	1.41
1	AA	377	G	C4'-C3'	5.76	1.59	1.53
1	AA	1287	A	N1-C2	-5.76	1.29	1.34
26	BB	545	U	N3-C4	5.76	1.43	1.38
26	BB	618	G	N3-C4	5.76	1.39	1.35
26	BB	776	G	O5'-C5'	-5.76	1.33	1.42
26	BB	1408	G	N3-C4	5.76	1.39	1.35
26	BB	1742	U	N1-C6	5.76	1.43	1.38
26	BB	1786	A	C5-C4	-5.76	1.34	1.38
26	BB	1961	C	C5'-C4'	5.76	1.58	1.51
1	AA	102	G	C2-N3	5.76	1.37	1.32
25	BA	78	A	C2-N3	5.76	1.38	1.33
26	BB	1723	G	N1-C2	5.76	1.42	1.37
26	BB	1828	G	C2-N3	5.76	1.37	1.32
26	BB	1894	C	C5-C6	5.76	1.39	1.34
26	BB	2156	G	O4'-C1'	5.76	1.49	1.41
26	BB	2330	G	N7-C5	5.76	1.42	1.39
26	BB	562	U	N1-C2	5.76	1.43	1.38
1	AA	965	U	P-O5'	5.76	1.65	1.59
3	AC	57	C	C2-O2	-5.76	1.19	1.24
26	BB	726	G	C5-C4	5.76	1.42	1.38
26	BB	996	A	N3-C4	5.76	1.38	1.34
26	BB	1526	C	C2-O2	5.76	1.29	1.24
26	BB	1725	U	C4-C5	5.76	1.48	1.43
26	BB	1977	A	N7-C5	-5.76	1.35	1.39
1	AA	955	U	C2-N3	5.75	1.41	1.37
3	AC	20	G	C2-N3	5.75	1.37	1.32
26	BB	34	U	C3'-C2'	-5.75	1.46	1.52
26	BB	547	A	C4'-O4'	-5.75	1.38	1.45
26	BB	1059	G	N1-C2	5.75	1.42	1.37
26	BB	1647	U	C2-N3	5.75	1.41	1.37
26	BB	1826	G	N9-C4	5.75	1.42	1.38
1	AA	835	U	C5-C6	5.75	1.39	1.34
1	AA	909	A	O4'-C1'	5.75	1.49	1.41
1	AA	1383	C	O4'-C1'	5.75	1.49	1.41
1	AA	1384	C	N3-C4	5.75	1.38	1.33
1	AA	1470	U	O3'-P	-5.75	1.54	1.61
1	AA	1501	C	C4'-C3'	5.75	1.59	1.53
4	AD	19	G	N9-C4	5.75	1.42	1.38
26	BB	27	G	C2-N3	5.75	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	990	A	N7-C5	-5.75	1.35	1.39
26	BB	1112	G	C6-N1	5.75	1.43	1.39
26	BB	1268	A	N7-C5	5.75	1.42	1.39
26	BB	1277	G	C5-C6	5.75	1.48	1.42
26	BB	1416	G	C2-N3	5.75	1.37	1.32
26	BB	1865	U	C2-O2	5.75	1.27	1.22
26	BB	2616	C	C2-N3	5.75	1.40	1.35
1	AA	805	C	C2-O2	-5.75	1.19	1.24
1	AA	1347	G	O3'-P	5.75	1.68	1.61
25	BA	33	G	C6-N1	5.75	1.43	1.39
26	BB	58	G	C2'-C1'	5.75	1.59	1.53
26	BB	122	G	P-O5'	5.75	1.65	1.59
26	BB	609	A	C5-C4	-5.75	1.34	1.38
26	BB	711	G	P-O5'	5.75	1.65	1.59
26	BB	820	A	P-O5'	5.75	1.65	1.59
26	BB	1092	C	C4-C5	5.75	1.47	1.43
26	BB	1095	A	O3'-P	-5.75	1.54	1.61
26	BB	1942	C	C5'-C4'	5.75	1.58	1.51
26	BB	2779	U	C4'-O4'	-5.75	1.38	1.45
26	BB	2782	G	N3-C4	5.75	1.39	1.35
26	BB	2899	A	N3-C4	5.75	1.38	1.34
1	AA	787	A	O3'-P	5.75	1.68	1.61
26	BB	39	G	N1-C2	5.75	1.42	1.37
26	BB	2039	U	N3-C4	5.75	1.43	1.38
1	AA	266	G	N9-C4	5.75	1.42	1.38
1	AA	838	G	C3'-C2'	5.75	1.59	1.52
1	AA	1194	U	C5'-C4'	5.75	1.58	1.51
1	AA	1445	U	C5-C6	5.75	1.39	1.34
1	AA	1456	A	N9-C4	-5.75	1.34	1.37
26	BB	21	A	C4'-O4'	-5.75	1.38	1.45
26	BB	132	G	N3-C4	5.75	1.39	1.35
26	BB	915	C	C5-C6	5.75	1.39	1.34
26	BB	2271	G	C2-N3	5.75	1.37	1.32
26	BB	2337	G	C5'-C4'	5.75	1.58	1.51
26	BB	2671	G	N3-C4	-5.75	1.31	1.35
26	BB	2683	C	C4'-O4'	-5.75	1.38	1.45
26	BB	2783	U	C4-C5	5.75	1.48	1.43
1	AA	738	C	C4'-O4'	-5.75	1.38	1.45
1	AA	1005	A	C6-N6	5.75	1.38	1.33
1	AA	1013	G	C5-C4	5.75	1.42	1.38
1	AA	1300	G	N3-C4	5.75	1.39	1.35
1	AA	1500	A	O3'-P	5.75	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	90	C	C2-N3	5.75	1.40	1.35
26	BB	176	A	N3-C4	5.75	1.38	1.34
26	BB	809	G	C8-N7	5.75	1.34	1.30
26	BB	1790	C	C2-O2	-5.75	1.19	1.24
26	BB	2587	A	O3'-P	5.75	1.68	1.61
26	BB	2810	A	O3'-P	-5.75	1.54	1.61
1	AA	297	G	C5'-C4'	5.75	1.58	1.51
26	BB	622	G	P-O5'	5.75	1.65	1.59
26	BB	807	U	C4'-C3'	-5.75	1.46	1.52
1	AA	760	G	N3-C4	5.74	1.39	1.35
1	AA	1022	A	N7-C5	-5.74	1.35	1.39
1	AA	1370	G	N7-C5	-5.74	1.35	1.39
9	AI	25	TYR	CE1-CZ	5.74	1.46	1.38
26	BB	667	U	O4'-C1'	5.74	1.49	1.41
26	BB	721	A	C5'-C4'	5.74	1.58	1.51
26	BB	788	A	N3-C4	5.74	1.38	1.34
26	BB	2664	G	N3-C4	5.74	1.39	1.35
26	BB	2822	G	C6-O6	5.74	1.29	1.24
4	AD	65	G	N3-C4	5.74	1.39	1.35
26	BB	1592	C	C5'-C4'	5.74	1.58	1.51
1	AA	503	C	C2-N3	5.74	1.40	1.35
1	AA	773	G	C5'-C4'	5.74	1.58	1.51
1	AA	971	G	N7-C5	-5.74	1.35	1.39
1	AA	1300	G	C6-O6	-5.74	1.19	1.24
25	BA	47	C	P-O5'	-5.74	1.54	1.59
26	BB	29	U	O3'-P	5.74	1.68	1.61
26	BB	386	G	C2-N2	5.74	1.40	1.34
26	BB	654	A	C5'-C4'	5.74	1.58	1.51
26	BB	1750	G	C8-N7	5.74	1.34	1.30
26	BB	2268	A	P-O5'	5.74	1.65	1.59
26	BB	2820	A	N7-C5	5.74	1.42	1.39
26	BB	2826	A	O3'-P	-5.74	1.54	1.61
1	AA	66	A	C3'-O3'	5.74	1.50	1.42
1	AA	533	A	N9-C4	5.74	1.41	1.37
26	BB	103	A	N1-C2	-5.74	1.29	1.34
26	BB	1200	C	N3-C4	5.74	1.38	1.33
26	BB	1367	A	O4'-C1'	5.74	1.49	1.41
26	BB	2051	A	C5-C4	-5.74	1.34	1.38
26	BB	2245	U	O3'-P	5.74	1.68	1.61
26	BB	2439	A	C2'-C1'	-5.74	1.47	1.53
26	BB	720	U	C4'-C3'	5.74	1.59	1.53
26	BB	2778	A	O3'-P	-5.74	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	447	G	O3'-P	5.74	1.68	1.61
1	AA	590	U	C4-C5	5.74	1.48	1.43
1	AA	745	G	C6-O6	-5.74	1.19	1.24
3	AC	34	U	C5'-C4'	-5.74	1.44	1.51
26	BB	13	A	O3'-P	-5.74	1.54	1.61
26	BB	694	U	C4'-O4'	-5.74	1.38	1.45
26	BB	1606	C	C4-C5	5.74	1.47	1.43
26	BB	1845	G	C6-N1	5.74	1.43	1.39
26	BB	422	A	C6-N6	-5.73	1.29	1.33
26	BB	483	A	C5-C4	-5.73	1.34	1.38
26	BB	811	U	O4'-C1'	5.73	1.49	1.41
26	BB	1817	G	C2-N3	5.73	1.37	1.32
26	BB	1830	C	P-O5'	5.73	1.65	1.59
1	AA	101	A	C5'-C4'	5.73	1.58	1.51
14	AN	18	GLY	CA-C	5.73	1.61	1.51
25	BA	114	C	C2-N3	5.73	1.40	1.35
26	BB	324	A	N7-C5	5.73	1.42	1.39
26	BB	382	A	C4'-C3'	-5.73	1.46	1.52
26	BB	1279	G	N7-C5	5.73	1.42	1.39
26	BB	1516	G	P-O5'	5.73	1.65	1.59
26	BB	1815	A	C5-C4	-5.73	1.34	1.38
1	AA	69	G	C2-N3	5.73	1.37	1.32
26	BB	399	U	P-O5'	5.73	1.65	1.59
26	BB	479	A	N9-C4	5.73	1.41	1.37
26	BB	689	A	C6-N1	5.73	1.39	1.35
26	BB	1965	C	C4-C5	5.73	1.47	1.43
26	BB	1986	C	C4-C5	-5.73	1.38	1.43
26	BB	2638	G	C8-N7	5.73	1.34	1.30
1	AA	191	G	C8-N7	-5.73	1.27	1.30
1	AA	1224	U	C4-O4	-5.73	1.19	1.23
26	BB	588	U	N1-C2	5.73	1.43	1.38
26	BB	1175	A	C6-N1	-5.73	1.31	1.35
26	BB	1233	C	N1-C2	-5.73	1.34	1.40
26	BB	1241	A	C3'-O3'	5.73	1.50	1.42
26	BB	1252	G	N9-C4	5.73	1.42	1.38
26	BB	1421	G	C2-N2	-5.73	1.28	1.34
26	BB	1647	U	C4-C5	5.73	1.48	1.43
1	AA	1432	G	N7-C5	-5.73	1.35	1.39
26	BB	138	U	C5'-C4'	5.73	1.58	1.51
26	BB	1051	G	N9-C4	-5.73	1.33	1.38
26	BB	2678	C	N3-C4	5.73	1.38	1.33
26	BB	2697	G	N7-C5	5.73	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2727	A	N1-C2	-5.73	1.29	1.34
1	AA	659	U	C4'-O4'	-5.73	1.38	1.45
1	AA	1198	G	C5'-C4'	5.73	1.58	1.51
25	BA	3	C	C4-N4	5.73	1.39	1.33
26	BB	91	A	O3'-P	5.73	1.68	1.61
25	BA	59	A	C6-N6	-5.72	1.29	1.33
26	BB	60	G	C2'-C1'	-5.72	1.47	1.53
26	BB	636	G	N9-C8	-5.72	1.33	1.37
26	BB	1171	G	N7-C5	5.72	1.42	1.39
26	BB	1405	U	N3-C4	5.72	1.43	1.38
26	BB	1968	G	C4'-O4'	-5.72	1.38	1.45
26	BB	2325	G	N9-C4	5.72	1.42	1.38
26	BB	2346	A	N7-C5	-5.72	1.35	1.39
1	AA	129	A	N9-C8	-5.72	1.33	1.37
1	AA	490	C	C3'-O3'	5.72	1.50	1.42
1	AA	495	A	N3-C4	5.72	1.38	1.34
1	AA	720	C	C5-C6	5.72	1.39	1.34
1	AA	760	G	P-O5'	5.72	1.65	1.59
1	AA	813	U	N1-C6	5.72	1.43	1.38
1	AA	979	C	C1'-N1	5.72	1.57	1.48
4	AD	58	A	N9-C4	-5.72	1.34	1.37
25	BA	52	A	N1-C2	5.72	1.39	1.34
26	BB	70	G	P-O5'	5.72	1.65	1.59
26	BB	297	G	N7-C5	-5.72	1.35	1.39
26	BB	490	C	P-O5'	5.72	1.65	1.59
26	BB	2319	G	N9-C4	5.72	1.42	1.38
26	BB	2624	G	N1-C2	5.72	1.42	1.37
1	AA	1092	A	C2-N3	5.72	1.38	1.33
25	BA	42	C	P-O5'	-5.72	1.54	1.59
1	AA	259	G	N9-C4	-5.72	1.33	1.38
1	AA	419	C	C4-C5	5.72	1.47	1.43
1	AA	1084	G	N9-C4	-5.72	1.33	1.38
1	AA	1107	C	N1-C6	5.72	1.40	1.37
26	BB	943	A	C5-C6	5.72	1.46	1.41
26	BB	1007	C	C4-C5	5.72	1.47	1.43
26	BB	1363	C	C4'-C3'	-5.72	1.46	1.52
26	BB	1501	G	P-O5'	5.72	1.65	1.59
26	BB	1588	G	C6-N1	5.72	1.43	1.39
26	BB	2771	C	C2-O2	-5.72	1.19	1.24
1	AA	390	U	C2-N3	5.72	1.41	1.37
1	AA	1010	U	C4-C5	5.72	1.48	1.43
26	BB	316	C	C5'-C4'	5.72	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	657	U	C2-O2	5.72	1.27	1.22
26	BB	1547	C	C4-N4	5.72	1.39	1.33
1	AA	122	G	C6-O6	-5.72	1.19	1.24
1	AA	366	A	C5'-C4'	5.72	1.58	1.51
1	AA	453	G	N3-C4	-5.72	1.31	1.35
1	AA	603	U	C4-O4	5.72	1.28	1.23
1	AA	1135	U	N1-C2	-5.72	1.33	1.38
1	AA	1469	C	C5'-C4'	5.72	1.58	1.51
3	AC	22	G	C2-N3	5.72	1.37	1.32
4	AD	58	A	N9-C8	-5.72	1.33	1.37
25	BA	2	G	C8-N7	-5.72	1.27	1.30
26	BB	567	U	N3-C4	5.72	1.43	1.38
26	BB	1175	A	C8-N7	-5.72	1.27	1.31
26	BB	1906	G	O3'-P	-5.72	1.54	1.61
26	BB	2282	G	N9-C8	-5.72	1.33	1.37
26	BB	2482	A	C8-N7	-5.72	1.27	1.31
1	AA	647	C	O3'-P	5.71	1.68	1.61
1	AA	846	G	C4'-O4'	-5.71	1.38	1.45
1	AA	1232	U	C5-C6	5.71	1.39	1.34
1	AA	1541	U	N1-C6	5.71	1.43	1.38
26	BB	809	G	N9-C4	5.71	1.42	1.38
26	BB	1114	C	P-O5'	5.71	1.65	1.59
26	BB	1485	U	C2-O2	5.71	1.27	1.22
26	BB	1581	G	P-O5'	5.71	1.65	1.59
26	BB	1690	A	C4'-O4'	-5.71	1.38	1.45
26	BB	1970	A	N3-C4	5.71	1.38	1.34
26	BB	1970	A	N9-C4	5.71	1.41	1.37
26	BB	2333	A	C5'-C4'	5.71	1.58	1.51
26	BB	2622	U	O4'-C1'	5.71	1.49	1.41
26	BB	2813	A	C5-C4	-5.71	1.34	1.38
1	AA	1182	G	C5'-C4'	5.71	1.58	1.51
1	AA	1198	G	N3-C4	5.71	1.39	1.35
26	BB	291	G	O4'-C1'	-5.71	1.34	1.41
26	BB	767	U	C3'-C2'	5.71	1.59	1.52
26	BB	2499	C	C2-N3	5.71	1.40	1.35
1	AA	221	C	C4-C5	5.71	1.47	1.43
1	AA	562	U	N1-C2	5.71	1.43	1.38
1	AA	700	G	C4'-O4'	-5.71	1.38	1.45
1	AA	1129	C	C5-C6	5.71	1.39	1.34
1	AA	1157	A	O3'-P	5.71	1.68	1.61
1	AA	1356	G	C2-N3	5.71	1.37	1.32
26	BB	181	A	N7-C5	5.71	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	891	G	N3-C4	5.71	1.39	1.35
26	BB	1183	U	C4-C5	5.71	1.48	1.43
26	BB	1211	C	C5'-C4'	5.71	1.58	1.51
26	BB	1407	G	N1-C2	5.71	1.42	1.37
26	BB	1793	C	P-O5'	-5.71	1.54	1.59
26	BB	1851	U	N1-C2	-5.71	1.33	1.38
26	BB	2019	A	C5-C4	-5.71	1.34	1.38
26	BB	2183	A	C8-N7	-5.71	1.27	1.31
26	BB	2322	A	C5-C6	5.71	1.46	1.41
26	BB	2657	A	P-O5'	5.71	1.65	1.59
1	AA	520	A	C2'-C1'	5.71	1.59	1.53
1	AA	1237	C	C4'-O4'	-5.71	1.38	1.45
1	AA	1404	C	N1-C6	-5.71	1.33	1.37
1	AA	1447	A	N3-C4	5.71	1.38	1.34
1	AA	1536	C	C4'-O4'	-5.71	1.38	1.45
26	BB	81	G	O3'-P	5.71	1.68	1.61
26	BB	91	A	N9-C8	-5.71	1.33	1.37
26	BB	529	A	C4'-O4'	-5.71	1.38	1.45
26	BB	759	G	C5-C6	5.71	1.48	1.42
26	BB	959	A	C8-N7	-5.71	1.27	1.31
26	BB	964	C	N3-C4	5.71	1.38	1.33
26	BB	1522	A	C6-N1	5.71	1.39	1.35
26	BB	1756	G	N9-C8	5.71	1.41	1.37
26	BB	1778	U	C2-N3	-5.71	1.33	1.37
26	BB	2216	G	O3'-P	-5.71	1.54	1.61
26	BB	2547	A	O4'-C1'	5.71	1.49	1.41
1	AA	109	A	N9-C4	5.71	1.41	1.37
1	AA	765	G	N9-C8	5.71	1.41	1.37
26	BB	440	C	P-O5'	5.71	1.65	1.59
26	BB	993	G	N1-C2	5.71	1.42	1.37
26	BB	1052	C	C5-C6	5.71	1.39	1.34
26	BB	2200	C	C5'-C4'	5.71	1.58	1.51
26	BB	2267	A	N9-C8	-5.71	1.33	1.37
26	BB	2691	C	N3-C4	5.71	1.38	1.33
1	AA	352	C	C2-O2	-5.71	1.19	1.24
1	AA	1228	C	C5'-C4'	5.71	1.58	1.51
25	BA	34	A	N1-C2	5.71	1.39	1.34
26	BB	588	U	N1-C6	5.71	1.43	1.38
26	BB	1914	C	N1-C6	5.71	1.40	1.37
26	BB	2174	C	P-O5'	5.71	1.65	1.59
26	BB	2541	A	C8-N7	-5.71	1.27	1.31
1	AA	434	U	C1'-N1	5.70	1.57	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	684	U	C4-O4	-5.70	1.19	1.23
1	AA	1218	C	P-O5'	5.70	1.65	1.59
1	AA	1502	A	C5-C6	-5.70	1.35	1.41
25	BA	6	G	C2'-C1'	-5.70	1.47	1.53
26	BB	275	C	N1-C6	5.70	1.40	1.37
26	BB	508	A	C3'-O3'	5.70	1.50	1.42
26	BB	1064	C	N1-C6	5.70	1.40	1.37
26	BB	1924	C	C4'-O4'	-5.70	1.38	1.45
26	BB	1949	G	C6-O6	-5.70	1.19	1.24
26	BB	2181	U	O3'-P	5.70	1.68	1.61
26	BB	2276	G	C6-N1	-5.70	1.35	1.39
1	AA	1241	G	C3'-O3'	-5.70	1.34	1.42
1	AA	1417	G	C5'-C4'	5.70	1.58	1.51
26	BB	2182	U	N3-C4	-5.70	1.33	1.38
26	BB	2870	C	C2'-C1'	-5.70	1.47	1.53
1	AA	233	C	C4'-C3'	-5.70	1.46	1.52
26	BB	621	A	C2'-C1'	5.70	1.59	1.53
26	BB	798	G	C4'-O4'	-5.70	1.38	1.45
26	BB	825	A	N3-C4	5.70	1.38	1.34
26	BB	1190	G	C8-N7	5.70	1.34	1.30
1	AA	461	A	C6-N6	-5.70	1.29	1.33
1	AA	758	C	N1-C6	-5.70	1.33	1.37
1	AA	957	U	C4-O4	-5.70	1.19	1.23
25	BA	55	U	C5'-C4'	5.70	1.58	1.51
26	BB	291	G	P-O5'	5.70	1.65	1.59
26	BB	801	G	C6-O6	5.70	1.29	1.24
26	BB	1081	U	C2-O2	5.70	1.27	1.22
26	BB	1392	A	C2-N3	5.70	1.38	1.33
26	BB	1708	C	C2'-C1'	5.70	1.59	1.53
26	BB	1715	G	C2'-C1'	-5.70	1.47	1.53
26	BB	1935	G	N9-C4	-5.70	1.33	1.38
26	BB	2725	A	C5-C4	-5.70	1.34	1.38
1	AA	210	C	N1-C2	-5.70	1.34	1.40
26	BB	242	G	C3'-C2'	5.70	1.59	1.52
26	BB	2046	G	C6-O6	-5.70	1.19	1.24
26	BB	2317	A	C6-N1	5.70	1.39	1.35
26	BB	95	A	N9-C4	-5.70	1.34	1.37
26	BB	211	C	C4-C5	5.70	1.47	1.43
26	BB	704	G	C5'-C4'	5.70	1.58	1.51
26	BB	911	A	C5'-C4'	5.70	1.58	1.51
26	BB	1348	C	N3-C4	5.70	1.38	1.33
26	BB	1719	G	N1-C2	5.70	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1937	A	C4'-C3'	5.70	1.59	1.53
26	BB	2152	G	C5'-C4'	5.70	1.58	1.51
26	BB	2371	G	N7-C5	5.70	1.42	1.39
26	BB	2531	A	N9-C4	5.70	1.41	1.37
1	AA	1067	A	C3'-C2'	5.69	1.59	1.52
1	AA	1070	U	C4-C5	5.69	1.48	1.43
25	BA	119	A	C2'-O2'	5.69	1.49	1.41
26	BB	834	G	N1-C2	5.69	1.42	1.37
26	BB	1585	C	C3'-O3'	5.69	1.50	1.42
1	AA	164	G	C3'-C2'	5.69	1.59	1.52
1	AA	718	A	N9-C4	5.69	1.41	1.37
26	BB	46	G	C2-N3	5.69	1.37	1.32
26	BB	83	A	C3'-O3'	5.69	1.50	1.42
26	BB	2391	G	N9-C4	5.69	1.42	1.38
26	BB	2540	C	P-O5'	5.69	1.65	1.59
26	BB	2583	G	P-O5'	5.69	1.65	1.59
1	AA	497	G	C5-C4	5.69	1.42	1.38
1	AA	570	G	N9-C8	5.69	1.41	1.37
1	AA	681	A	O3'-P	5.69	1.68	1.61
2	AB	9	A	C5'-C4'	5.69	1.58	1.51
25	BA	10	G	N9-C8	5.69	1.41	1.37
26	BB	464	U	C4-O4	5.69	1.28	1.23
26	BB	1854	A	N9-C8	-5.69	1.33	1.37
26	BB	2173	A	C1'-N9	5.69	1.57	1.48
26	BB	2230	G	C4'-O4'	-5.69	1.38	1.45
26	BB	2265	U	C5-C6	5.69	1.39	1.34
1	AA	1526	G	C4'-O4'	-5.69	1.38	1.45
3	AC	52	U	C3'-O3'	5.69	1.50	1.42
25	BA	84	G	N1-C2	5.69	1.42	1.37
26	BB	779	U	C4'-C3'	5.69	1.59	1.53
26	BB	2257	U	N1-C2	5.69	1.43	1.38
26	BB	2483	C	O4'-C1'	5.69	1.49	1.41
1	AA	970	C	C2-O2	-5.69	1.19	1.24
1	AA	1529	G	N9-C4	5.69	1.42	1.38
26	BB	36	G	P-O5'	-5.69	1.54	1.59
26	BB	717	C	C4-C5	-5.69	1.38	1.43
26	BB	1371	G	C5-C6	-5.69	1.36	1.42
26	BB	1649	G	C6-N1	5.69	1.43	1.39
26	BB	2344	U	C3'-C2'	-5.69	1.46	1.52
26	BB	2620	C	N3-C4	5.69	1.38	1.33
1	AA	846	G	C2'-C1'	5.69	1.59	1.53
1	AA	1260	G	C2'-C1'	5.69	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	127	A	N7-C5	5.69	1.42	1.39
26	BB	1790	C	N1-C6	5.69	1.40	1.37
26	BB	2161	C	C5'-C4'	5.69	1.58	1.51
26	BB	2383	G	C5-C6	5.69	1.48	1.42
26	BB	2728	U	C4-O4	-5.69	1.19	1.23
1	AA	422	C	C4-C5	5.68	1.47	1.43
1	AA	437	U	C2'-C1'	-5.68	1.47	1.53
1	AA	1198	G	C6-N1	5.68	1.43	1.39
1	AA	1397	C	N1-C6	5.68	1.40	1.37
1	AA	1470	U	C4-C5	5.68	1.48	1.43
7	AG	87	GLU	CG-CD	5.68	1.60	1.51
26	BB	858	G	C2'-C1'	-5.68	1.47	1.53
26	BB	1266	G	C2-N3	5.68	1.37	1.32
26	BB	1279	G	C5-C4	-5.68	1.34	1.38
26	BB	1304	A	C4'-O4'	-5.68	1.38	1.45
1	AA	1275	A	C4'-O4'	-5.68	1.38	1.45
1	AA	1292	G	C4'-O4'	-5.68	1.38	1.45
26	BB	152	A	O4'-C1'	5.68	1.49	1.41
26	BB	1225	G	C4'-C3'	5.68	1.59	1.53
26	BB	1654	A	P-O5'	5.68	1.65	1.59
40	BP	94	TYR	CE1-CZ	5.68	1.46	1.38
1	AA	306	A	C2'-C1'	-5.68	1.47	1.53
1	AA	406	G	C3'-C2'	5.68	1.59	1.52
1	AA	893	C	N1-C6	-5.68	1.33	1.37
1	AA	1312	G	C4'-O4'	-5.68	1.38	1.45
1	AA	677	U	N1-C6	5.68	1.43	1.38
1	AA	1475	G	O4'-C1'	5.68	1.49	1.41
26	BB	563	A	C5-C4	-5.68	1.34	1.38
26	BB	577	G	C4'-O4'	-5.68	1.38	1.45
26	BB	894	U	C4'-O4'	-5.68	1.38	1.45
26	BB	1025	G	C5'-C4'	5.68	1.58	1.51
26	BB	1062	G	C5-C4	-5.68	1.34	1.38
26	BB	2190	G	O3'-P	5.68	1.68	1.61
1	AA	218	U	C3'-C2'	-5.68	1.46	1.52
26	BB	2807	U	O3'-P	5.68	1.68	1.61
26	BB	2822	G	N9-C4	5.68	1.42	1.38
1	AA	45	G	N1-C2	5.68	1.42	1.37
1	AA	135	C	O3'-P	5.68	1.68	1.61
26	BB	164	C	N1-C6	-5.68	1.33	1.37
26	BB	421	C	C3'-O3'	5.68	1.50	1.42
26	BB	1724	G	O3'-P	5.68	1.68	1.61
1	AA	55	A	C2-N3	5.67	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1052	U	C5'-C4'	5.67	1.58	1.51
1	AA	1148	U	O3'-P	5.67	1.68	1.61
1	AA	1179	A	C8-N7	-5.67	1.27	1.31
1	AA	1201	A	C4'-C3'	5.67	1.59	1.53
1	AA	1351	U	C2'-C1'	5.67	1.59	1.53
26	BB	1473	G	C4'-O4'	-5.67	1.38	1.45
26	BB	1744	A	C6-N1	-5.67	1.31	1.35
26	BB	1756	G	C8-N7	5.67	1.34	1.30
26	BB	1762	A	C3'-O3'	5.67	1.50	1.42
26	BB	1772	A	O4'-C1'	5.67	1.49	1.41
26	BB	1951	U	C4-C5	5.67	1.48	1.43
26	BB	2408	U	N3-C4	5.67	1.43	1.38
1	AA	978	A	N9-C4	-5.67	1.34	1.37
26	BB	195	A	N9-C4	-5.67	1.34	1.37
26	BB	601	C	P-O5'	5.67	1.65	1.59
26	BB	627	A	C8-N7	-5.67	1.27	1.31
26	BB	1774	C	C4-C5	5.67	1.47	1.43
26	BB	2040	G	C5-C4	5.67	1.42	1.38
26	BB	2139	U	C4'-O4'	-5.67	1.38	1.45
1	AA	120	A	C5-C4	-5.67	1.34	1.38
1	AA	162	A	C6-N1	5.67	1.39	1.35
1	AA	504	C	C2-N3	5.67	1.40	1.35
1	AA	774	G	O3'-P	5.67	1.68	1.61
25	BA	46	A	N7-C5	-5.67	1.35	1.39
26	BB	598	U	C5'-C4'	5.67	1.58	1.51
26	BB	725	G	N3-C4	5.67	1.39	1.35
26	BB	2142	A	C5-C6	5.67	1.46	1.41
26	BB	2669	G	O3'-P	5.67	1.68	1.61
26	BB	2765	A	P-O5'	5.67	1.65	1.59
51	B0	48	ARG	NE-CZ	5.67	1.40	1.33
26	BB	220	G	N9-C4	5.67	1.42	1.38
1	AA	352	C	P-O5'	5.67	1.65	1.59
1	AA	614	C	P-O5'	5.67	1.65	1.59
1	AA	936	C	C5-C6	5.67	1.38	1.34
1	AA	1239	A	C4'-C3'	5.67	1.59	1.53
2	AB	34	C	N1-C2	5.67	1.45	1.40
25	BA	74	U	C3'-C2'	5.67	1.59	1.52
26	BB	1115	G	C8-N7	-5.67	1.27	1.30
26	BB	1189	A	P-O5'	5.67	1.65	1.59
26	BB	1823	G	N1-C2	-5.67	1.33	1.37
26	BB	1838	C	C2-N3	5.67	1.40	1.35
26	BB	2121	G	O3'-P	5.67	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1214	C	C4'-O4'	-5.67	1.38	1.45
1	AA	1418	A	O3'-P	5.67	1.68	1.61
26	BB	197	A	C5-C4	5.67	1.42	1.38
26	BB	1205	A	C5-C4	5.67	1.42	1.38
26	BB	2304	G	N9-C8	5.67	1.41	1.37
56	B5	39	ARG	CZ-NH1	5.67	1.40	1.33
1	AA	386	C	N3-C4	5.67	1.38	1.33
1	AA	889	A	C1'-N9	-5.67	1.39	1.46
26	BB	40	U	O3'-P	5.67	1.68	1.61
1	AA	71	A	O5'-C5'	-5.66	1.33	1.42
1	AA	563	A	C6-N1	-5.66	1.31	1.35
1	AA	964	A	C3'-C2'	5.66	1.59	1.52
1	AA	1360	A	N9-C4	5.66	1.41	1.37
1	AA	1512	U	O4'-C1'	5.66	1.49	1.41
3	AC	13	A	N9-C4	5.66	1.41	1.37
26	BB	313	G	C4'-O4'	-5.66	1.38	1.45
26	BB	370	G	P-O5'	5.66	1.65	1.59
26	BB	1385	A	N7-C5	-5.66	1.35	1.39
26	BB	1664	A	N9-C4	-5.66	1.34	1.37
26	BB	1731	G	C5-C4	-5.66	1.34	1.38
26	BB	2671	G	C4'-O4'	-5.66	1.38	1.45
1	AA	1261	A	C8-N7	-5.66	1.27	1.31
26	BB	605	G	N3-C4	5.66	1.39	1.35
26	BB	1829	A	P-O5'	-5.66	1.54	1.59
1	AA	841	C	N1-C6	5.66	1.40	1.37
1	AA	1422	G	C1'-N9	5.66	1.57	1.48
26	BB	218	A	N3-C4	5.66	1.38	1.34
26	BB	1198	U	C2-O2	5.66	1.27	1.22
26	BB	1312	U	P-O5'	5.66	1.65	1.59
26	BB	1596	A	C3'-C2'	5.66	1.59	1.52
26	BB	2090	A	C5-C6	5.66	1.46	1.41
26	BB	2267	A	C6-N6	5.66	1.38	1.33
26	BB	2553	G	N9-C8	-5.66	1.33	1.37
1	AA	52	C	N1-C6	5.66	1.40	1.37
1	AA	397	A	N7-C5	-5.66	1.35	1.39
26	BB	351	C	N1-C6	-5.66	1.33	1.37
26	BB	356	G	C4'-C3'	5.66	1.59	1.53
26	BB	410	G	C6-N1	5.66	1.43	1.39
26	BB	593	U	C4-C5	5.66	1.48	1.43
26	BB	593	U	C4'-O4'	-5.66	1.38	1.45
26	BB	788	A	C2'-C1'	-5.66	1.47	1.53
26	BB	1008	A	C6-N6	5.66	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1190	G	P-O5'	5.66	1.65	1.59
26	BB	1256	G	P-O5'	-5.66	1.54	1.59
26	BB	1631	G	C5'-C4'	5.66	1.58	1.51
1	AA	595	A	N3-C4	-5.66	1.31	1.34
1	AA	616	G	O4'-C1'	5.66	1.49	1.41
1	AA	622	A	P-O5'	5.66	1.65	1.59
26	BB	1496	A	C8-N7	-5.66	1.27	1.31
26	BB	1807	G	N3-C4	5.66	1.39	1.35
26	BB	1819	A	N9-C8	5.66	1.42	1.37
26	BB	1881	C	O4'-C1'	-5.66	1.34	1.41
26	BB	2404	U	C4-C5	5.66	1.48	1.43
26	BB	2739	U	P-O5'	-5.66	1.54	1.59
1	AA	481	G	C8-N7	-5.66	1.27	1.30
3	AC	31	U	N1-C2	5.66	1.43	1.38
26	BB	324	A	N3-C4	5.66	1.38	1.34
26	BB	623	C	C4-C5	-5.66	1.38	1.43
26	BB	706	A	C8-N7	-5.66	1.27	1.31
26	BB	1140	C	P-O5'	-5.66	1.54	1.59
26	BB	1146	C	C4'-O4'	-5.66	1.38	1.45
26	BB	1436	G	N7-C5	5.66	1.42	1.39
26	BB	2409	G	P-O5'	-5.66	1.54	1.59
26	BB	2527	C	C4-C5	5.66	1.47	1.43
26	BB	2635	A	N3-C4	5.66	1.38	1.34
26	BB	2717	C	C4-N4	-5.66	1.28	1.33
1	AA	416	G	N3-C4	-5.65	1.31	1.35
1	AA	850	U	C5'-C4'	5.65	1.58	1.51
1	AA	1016	A	N1-C2	5.65	1.39	1.34
1	AA	1461	G	N9-C4	-5.65	1.33	1.38
26	BB	1280	G	C2-N3	5.65	1.37	1.32
26	BB	2410	G	C6-N1	5.65	1.43	1.39
1	AA	1062	U	C5-C6	5.65	1.39	1.34
1	AA	1118	U	C2-O2	-5.65	1.17	1.22
3	AC	27	A	O3'-P	5.65	1.68	1.61
25	BA	55	U	C4'-O4'	-5.65	1.38	1.45
26	BB	1213	A	N3-C4	5.65	1.38	1.34
26	BB	1427	A	C6-N6	5.65	1.38	1.33
26	BB	1518	C	C5'-C4'	5.65	1.58	1.51
26	BB	1922	G	C6-N1	5.65	1.43	1.39
26	BB	2681	C	C2'-O2'	5.65	1.49	1.41
1	AA	1077	G	C5-C6	5.65	1.48	1.42
1	AA	1362	A	N7-C5	5.65	1.42	1.39
25	BA	32	U	C3'-C2'	5.65	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1067	A	C2-N3	-5.65	1.28	1.33
26	BB	1576	U	O3'-P	5.65	1.68	1.61
26	BB	1598	A	C5-C4	-5.65	1.34	1.38
26	BB	2157	G	C6-N1	5.65	1.43	1.39
26	BB	2614	A	C5-C6	5.65	1.46	1.41
26	BB	2760	C	N1-C2	5.65	1.45	1.40
27	BC	165	ASN	CB-CG	5.65	1.64	1.51
4	AD	34	U	C4-O4	5.65	1.28	1.23
26	BB	1011	G	C6-N1	5.65	1.43	1.39
26	BB	1947	C	N3-C4	5.65	1.38	1.33
1	AA	299	G	O4'-C1'	-5.65	1.34	1.41
1	AA	376	G	C8-N7	5.65	1.34	1.30
1	AA	381	C	N3-C4	5.65	1.38	1.33
1	AA	690	G	N3-C4	5.65	1.39	1.35
1	AA	737	C	C4'-C3'	-5.65	1.47	1.52
1	AA	785	G	C8-N7	-5.65	1.27	1.30
26	BB	25	U	N3-C4	5.65	1.43	1.38
26	BB	508	A	C5-C6	5.65	1.46	1.41
26	BB	699	A	N7-C5	5.65	1.42	1.39
26	BB	1014	A	C4'-O4'	-5.65	1.38	1.45
26	BB	1089	A	N7-C5	5.65	1.42	1.39
26	BB	1260	A	N9-C4	5.65	1.41	1.37
26	BB	1407	G	C6-N1	5.65	1.43	1.39
26	BB	2410	G	N7-C5	-5.65	1.35	1.39
26	BB	2672	U	P-O5'	5.65	1.65	1.59
6	AF	192	TYR	CB-CG	5.65	1.60	1.51
26	BB	1031	G	C6-N1	5.65	1.43	1.39
26	BB	2019	A	C6-N6	5.65	1.38	1.33
26	BB	2404	U	O4'-C1'	5.65	1.49	1.41
1	AA	79	G	C8-N7	5.64	1.34	1.30
1	AA	518	C	C2'-C1'	-5.64	1.47	1.53
1	AA	899	C	N1-C6	5.64	1.40	1.37
4	AD	2	G	C8-N7	5.64	1.34	1.30
4	AD	5	G	C5-C6	5.64	1.48	1.42
25	BA	7	G	C4'-O4'	-5.64	1.38	1.45
26	BB	246	C	O3'-P	5.64	1.68	1.61
26	BB	777	G	P-O5'	-5.64	1.54	1.59
26	BB	933	A	O3'-P	5.64	1.68	1.61
26	BB	1166	G	O3'-P	5.64	1.68	1.61
26	BB	1748	C	C5'-C4'	5.64	1.58	1.51
1	AA	295	C	N1-C6	5.64	1.40	1.37
1	AA	705	G	N9-C4	5.64	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1121	U	C2'-C1'	5.64	1.59	1.53
19	AS	60	TRP	CB-CG	-5.64	1.40	1.50
26	BB	248	G	N7-C5	-5.64	1.35	1.39
26	BB	398	C	C5'-C4'	5.64	1.58	1.51
26	BB	484	C	C4-C5	5.64	1.47	1.43
26	BB	772	C	C5-C6	5.64	1.38	1.34
26	BB	1674	G	N9-C8	5.64	1.41	1.37
26	BB	1754	A	N9-C4	-5.64	1.34	1.37
1	AA	382	A	C2-N3	5.64	1.38	1.33
1	AA	420	U	P-O5'	5.64	1.65	1.59
26	BB	758	C	P-O5'	5.64	1.65	1.59
26	BB	808	G	C6-N1	5.64	1.43	1.39
26	BB	1167	C	O4'-C1'	5.64	1.49	1.41
26	BB	1932	A	C2-N3	5.64	1.38	1.33
26	BB	2749	A	C4'-O4'	-5.64	1.38	1.45
1	AA	1286	U	C2-O2	-5.64	1.17	1.22
1	AA	1334	G	C2-N3	5.64	1.37	1.32
4	AD	4	G	C4'-C3'	5.64	1.59	1.53
25	BA	5	U	C5'-C4'	5.64	1.58	1.51
26	BB	65	U	N1-C2	5.64	1.43	1.38
26	BB	1210	G	O3'-P	-5.64	1.54	1.61
26	BB	1585	C	N3-C4	5.64	1.37	1.33
26	BB	1620	G	N9-C8	-5.64	1.33	1.37
1	AA	1117	A	N9-C8	-5.64	1.33	1.37
26	BB	2553	G	C5-C6	5.64	1.48	1.42
1	AA	428	G	C2-N3	5.64	1.37	1.32
1	AA	614	C	C3'-C2'	-5.64	1.46	1.52
1	AA	730	G	C2-N3	5.64	1.37	1.32
1	AA	1143	G	C5-C4	-5.64	1.34	1.38
2	AB	42	G	N1-C2	5.64	1.42	1.37
26	BB	327	G	C6-N1	5.64	1.43	1.39
26	BB	822	G	C5-C4	-5.64	1.34	1.38
26	BB	1259	G	C6-N1	5.64	1.43	1.39
26	BB	1271	G	P-O5'	5.64	1.65	1.59
26	BB	1363	C	N1-C6	-5.64	1.33	1.37
26	BB	1668	A	C2-N3	-5.64	1.28	1.33
26	BB	2162	G	C2-N3	5.64	1.37	1.32
26	BB	2252	G	C3'-C2'	5.64	1.59	1.52
26	BB	2577	A	C4'-O4'	-5.64	1.38	1.45
26	BB	2818	U	C2-N3	5.64	1.41	1.37
1	AA	136	C	C4-C5	-5.63	1.38	1.43
1	AA	1453	G	C2-N3	5.63	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	24	G	C3'-O3'	5.63	1.50	1.42
2	AB	51	G	N9-C4	5.63	1.42	1.38
25	BA	74	U	C4-C5	5.63	1.48	1.43
26	BB	220	G	P-O5'	5.63	1.65	1.59
26	BB	527	C	C4-N4	-5.63	1.28	1.33
26	BB	867	C	C4-C5	5.63	1.47	1.43
26	BB	2070	A	N7-C5	5.63	1.42	1.39
36	BL	97	PRO	N-CD	-5.63	1.40	1.47
1	AA	917	G	C5-C6	5.63	1.48	1.42
1	AA	1063	C	P-O5'	5.63	1.65	1.59
1	AA	1095	U	C4-C5	5.63	1.48	1.43
26	BB	876	C	P-O5'	5.63	1.65	1.59
26	BB	1266	G	C6-N1	5.63	1.43	1.39
26	BB	1805	A	O3'-P	5.63	1.68	1.61
26	BB	2180	U	C4'-O4'	-5.63	1.38	1.45
26	BB	2417	C	C4'-O4'	-5.63	1.38	1.45
1	AA	552	U	C2'-C1'	-5.63	1.47	1.53
1	AA	736	C	C4-C5	5.63	1.47	1.43
1	AA	1024	G	C6-O6	-5.63	1.19	1.24
1	AA	1239	A	C8-N7	-5.63	1.27	1.31
16	AP	20	SER	CB-OG	-5.63	1.34	1.42
26	BB	183	C	C4-C5	5.63	1.47	1.43
26	BB	274	C	C2-N3	5.63	1.40	1.35
26	BB	333	G	C2'-C1'	5.63	1.59	1.53
26	BB	399	U	C4-O4	-5.63	1.19	1.23
26	BB	578	G	C6-N1	5.63	1.43	1.39
26	BB	1051	G	N7-C5	-5.63	1.35	1.39
26	BB	1368	G	N1-C2	5.63	1.42	1.37
26	BB	1721	G	C6-O6	-5.63	1.19	1.24
33	BI	68	ARG	NE-CZ	5.63	1.40	1.33
1	AA	15	G	N9-C8	5.63	1.41	1.37
1	AA	1311	A	P-O5'	5.63	1.65	1.59
26	BB	177	G	N9-C8	-5.63	1.33	1.37
26	BB	330	A	C3'-C2'	5.63	1.59	1.52
26	BB	1876	A	N9-C8	5.63	1.42	1.37
1	AA	23	C	C4-N4	-5.63	1.28	1.33
1	AA	357	G	N7-C5	-5.63	1.35	1.39
1	AA	360	G	O4'-C1'	5.63	1.49	1.41
1	AA	1327	C	C4-N4	5.63	1.39	1.33
26	BB	45	G	N3-C4	5.63	1.39	1.35
26	BB	393	C	C5-C6	5.63	1.38	1.34
26	BB	1497	U	N3-C4	5.63	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1992	G	C4'-C3'	5.63	1.59	1.53
26	BB	2379	G	C6-N1	5.63	1.43	1.39
26	BB	2551	C	C5'-C4'	5.63	1.58	1.51
26	BB	2619	C	C3'-C2'	-5.63	1.46	1.52
1	AA	218	U	C4-C5	5.63	1.48	1.43
1	AA	1130	A	C3'-C2'	5.63	1.59	1.52
26	BB	497	A	N9-C8	-5.63	1.33	1.37
26	BB	1855	U	C2'-C1'	-5.63	1.47	1.53
26	BB	2433	A	C6-N1	-5.63	1.31	1.35
26	BB	2669	G	C5-C4	-5.63	1.34	1.38
26	BB	2794	C	C4-C5	5.63	1.47	1.43
1	AA	1030	U	C4'-C3'	5.62	1.59	1.53
26	BB	630	G	C4'-C3'	5.62	1.59	1.53
26	BB	2043	C	O3'-P	5.62	1.67	1.61
26	BB	2692	G	C5'-C4'	5.62	1.58	1.51
1	AA	914	A	C4'-C3'	-5.62	1.47	1.52
1	AA	1011	C	O3'-P	-5.62	1.54	1.61
1	AA	1224	U	C2-N3	5.62	1.41	1.37
1	AA	1343	G	N3-C4	5.62	1.39	1.35
1	AA	1496	C	O3'-P	-5.62	1.54	1.61
4	AD	39	A	C3'-C2'	5.62	1.59	1.52
25	BA	114	C	C4'-O4'	-5.62	1.38	1.45
26	BB	408	G	N1-C2	-5.62	1.33	1.37
26	BB	2533	U	C2-O2	5.62	1.27	1.22
1	AA	17	U	P-O5'	5.62	1.65	1.59
1	AA	23	C	C5-C6	5.62	1.38	1.34
1	AA	204	G	N7-C5	-5.62	1.35	1.39
1	AA	340	U	C2-O2	5.62	1.27	1.22
4	AD	39	A	N1-C2	5.62	1.39	1.34
26	BB	96	C	N1-C6	5.62	1.40	1.37
26	BB	449	A	O3'-P	5.62	1.67	1.61
26	BB	734	A	C5-C4	-5.62	1.34	1.38
26	BB	773	U	P-O5'	-5.62	1.54	1.59
26	BB	781	A	C5-C4	-5.62	1.34	1.38
26	BB	1830	C	C4'-C3'	5.62	1.59	1.53
30	BF	78	TRP	NE1-CE2	5.62	1.44	1.37
26	BB	875	G	N7-C5	-5.62	1.35	1.39
26	BB	1888	G	N7-C5	5.62	1.42	1.39
26	BB	2116	G	N9-C8	-5.62	1.33	1.37
26	BB	132	G	C2'-C1'	5.62	1.59	1.53
26	BB	152	A	C5-C6	5.62	1.46	1.41
26	BB	850	U	O3'-P	-5.62	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2023	C	N1-C6	5.62	1.40	1.37
26	BB	2444	G	C2-N3	5.62	1.37	1.32
26	BB	2518	A	N9-C8	5.62	1.42	1.37
26	BB	2831	G	N9-C8	-5.62	1.33	1.37
1	AA	143	A	C8-N7	-5.62	1.27	1.31
1	AA	670	G	N9-C8	-5.62	1.33	1.37
4	AD	30	G	N7-C5	-5.62	1.35	1.39
26	BB	641	U	C3'-C2'	5.62	1.59	1.52
26	BB	681	G	C8-N7	-5.62	1.27	1.30
26	BB	1407	G	C6-O6	-5.62	1.19	1.24
26	BB	2280	G	C5'-C4'	5.62	1.58	1.51
26	BB	2856	A	N3-C4	5.62	1.38	1.34
1	AA	286	C	C2'-O2'	-5.62	1.34	1.41
1	AA	308	C	P-O5'	5.62	1.65	1.59
1	AA	373	A	C8-N7	-5.62	1.27	1.31
1	AA	749	A	N7-C5	5.62	1.42	1.39
1	AA	1075	U	N1-C2	5.62	1.43	1.38
1	AA	1139	G	C6-N1	-5.62	1.35	1.39
14	AN	122	PRO	N-CD	5.62	1.55	1.47
26	BB	85	G	N7-C5	5.62	1.42	1.39
26	BB	184	C	C4'-O4'	-5.62	1.38	1.45
26	BB	375	G	N3-C4	-5.62	1.31	1.35
26	BB	2060	A	O4'-C1'	-5.62	1.34	1.41
1	AA	579	A	C4'-O4'	-5.61	1.38	1.45
25	BA	41	G	C4'-O4'	-5.61	1.38	1.45
25	BA	107	G	C4'-O4'	-5.61	1.38	1.45
26	BB	201	C	C5'-C4'	5.61	1.58	1.51
26	BB	474	G	C2-N3	5.61	1.37	1.32
26	BB	1087	G	N3-C4	5.61	1.39	1.35
26	BB	2177	C	N1-C6	-5.61	1.33	1.37
26	BB	2352	A	P-O5'	5.61	1.65	1.59
26	BB	772	C	N1-C2	-5.61	1.34	1.40
26	BB	885	C	C3'-O3'	-5.61	1.34	1.42
26	BB	1555	G	C4'-O4'	-5.61	1.38	1.45
26	BB	1684	G	C4'-O4'	5.61	1.52	1.45
26	BB	2249	U	C4'-O4'	-5.61	1.38	1.45
1	AA	197	A	C5'-C4'	5.61	1.58	1.51
1	AA	754	C	N1-C6	5.61	1.40	1.37
1	AA	827	U	C4-C5	5.61	1.48	1.43
1	AA	951	G	N9-C8	5.61	1.41	1.37
1	AA	1144	G	C3'-O3'	-5.61	1.34	1.42
1	AA	1182	G	P-O5'	5.61	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	AC	40	G	C2-N2	-5.61	1.28	1.34
4	AD	4	G	C2-N2	-5.61	1.28	1.34
11	AK	29	SER	CB-OG	-5.61	1.34	1.42
25	BA	45	A	N9-C4	-5.61	1.34	1.37
26	BB	89	A	C1'-N9	5.61	1.57	1.48
26	BB	609	A	N7-C5	5.61	1.42	1.39
26	BB	650	C	N1-C2	-5.61	1.34	1.40
26	BB	769	U	C2-N3	5.61	1.41	1.37
26	BB	1101	U	C2-N3	5.61	1.41	1.37
26	BB	2456	C	O4'-C1'	5.61	1.49	1.41
26	BB	2593	U	C2'-O2'	5.61	1.49	1.41
26	BB	2653	U	C4-C5	5.61	1.48	1.43
26	BB	2783	U	C5-C6	5.61	1.39	1.34
25	BA	41	G	C2-N3	5.61	1.37	1.32
26	BB	472	A	N3-C4	5.61	1.38	1.34
26	BB	823	C	N1-C6	5.61	1.40	1.37
26	BB	1318	U	C2'-O2'	5.61	1.49	1.41
26	BB	1595	C	C4-C5	5.61	1.47	1.43
1	AA	172	A	N1-C2	-5.61	1.29	1.34
1	AA	288	A	N7-C5	5.61	1.42	1.39
1	AA	535	A	C3'-O3'	5.61	1.50	1.42
4	AD	68	C	C1'-N1	5.61	1.57	1.48
25	BA	1	U	C4-C5	5.61	1.48	1.43
26	BB	320	A	C5-C6	5.61	1.46	1.41
26	BB	543	G	C6-N1	5.61	1.43	1.39
26	BB	614	A	C5-C6	5.61	1.46	1.41
26	BB	765	C	N3-C4	5.61	1.37	1.33
26	BB	1148	U	C4-C5	5.61	1.48	1.43
26	BB	1203	U	C2'-O2'	-5.61	1.34	1.41
26	BB	1668	A	N7-C5	5.61	1.42	1.39
1	AA	100	G	C4'-C3'	5.61	1.59	1.53
2	AB	6	C	N1-C6	5.61	1.40	1.37
26	BB	548	G	C2-N3	5.61	1.37	1.32
26	BB	1729	U	N1-C2	5.61	1.43	1.38
26	BB	1848	A	N7-C5	5.61	1.42	1.39
26	BB	1958	C	C2-N3	5.61	1.40	1.35
26	BB	2777	G	C6-N1	-5.61	1.35	1.39
31	BG	99	PHE	CB-CG	5.61	1.60	1.51
1	AA	7	A	C6-N1	5.60	1.39	1.35
1	AA	152	A	C6-N1	-5.60	1.31	1.35
26	BB	1016	G	N9-C4	-5.60	1.33	1.38
26	BB	2345	G	N9-C8	5.60	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	272	C	C4'-O4'	-5.60	1.38	1.45
1	AA	1020	G	C2-N3	5.60	1.37	1.32
1	AA	1173	U	C5'-C4'	5.60	1.58	1.51
26	BB	617	G	O4'-C1'	5.60	1.49	1.41
26	BB	631	A	N9-C8	-5.60	1.33	1.37
26	BB	636	G	C4'-C3'	5.60	1.59	1.53
26	BB	1522	A	N9-C4	-5.60	1.34	1.37
26	BB	1815	A	N3-C4	5.60	1.38	1.34
26	BB	2327	A	C4'-C3'	-5.60	1.47	1.52
26	BB	2516	A	N9-C8	5.60	1.42	1.37
26	BB	2786	U	C4-C5	5.60	1.48	1.43
4	AD	11	A	C2'-C1'	5.60	1.59	1.53
4	AD	18	U	C4'-O4'	-5.60	1.38	1.45
26	BB	33	C	N3-C4	5.60	1.37	1.33
26	BB	480	A	C2'-O2'	5.60	1.49	1.41
26	BB	883	G	P-O5'	-5.60	1.54	1.59
26	BB	1013	C	N1-C2	5.60	1.45	1.40
26	BB	2113	U	C5-C6	5.60	1.39	1.34
26	BB	2127	G	C5-C4	5.60	1.42	1.38
26	BB	2902	C	P-O5'	5.60	1.65	1.59
1	AA	1205	U	O3'-P	5.60	1.67	1.61
2	AB	34	C	C4-N4	5.60	1.39	1.33
26	BB	672	C	O3'-P	5.60	1.67	1.61
26	BB	1007	C	C4-N4	5.60	1.39	1.33
26	BB	1063	G	C2-N3	5.60	1.37	1.32
26	BB	1225	G	N9-C4	5.60	1.42	1.38
26	BB	1419	A	N9-C4	5.60	1.41	1.37
26	BB	1839	G	N9-C8	-5.60	1.33	1.37
26	BB	1856	U	C2'-O2'	-5.60	1.34	1.41
26	BB	2084	C	C4'-O4'	-5.60	1.38	1.45
26	BB	2224	G	N9-C8	-5.60	1.33	1.37
26	BB	2315	G	C3'-C2'	5.60	1.59	1.52
26	BB	2543	G	C2-N3	5.60	1.37	1.32
26	BB	2903	U	N3-C4	5.60	1.43	1.38
39	BO	62	LYS	CA-CB	5.60	1.66	1.53
1	AA	183	C	C4-C5	5.60	1.47	1.43
1	AA	579	A	N9-C8	5.60	1.42	1.37
1	AA	1279	G	N9-C4	5.60	1.42	1.38
1	AA	1319	A	C6-N1	5.60	1.39	1.35
1	AA	1423	G	N9-C8	-5.60	1.33	1.37
26	BB	946	C	N3-C4	5.60	1.37	1.33
26	BB	1812	U	P-O5'	5.60	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1985	C	C5'-C4'	5.60	1.58	1.51
26	BB	2219	U	P-O5'	5.60	1.65	1.59
26	BB	2736	A	C4'-O4'	-5.60	1.38	1.45
26	BB	2836	U	C5'-C4'	-5.60	1.44	1.51
26	BB	2850	A	N7-C5	5.60	1.42	1.39
1	AA	777	A	O3'-P	-5.60	1.54	1.61
26	BB	217	A	N9-C8	-5.60	1.33	1.37
26	BB	2093	G	C2-N3	5.60	1.37	1.32
26	BB	2403	C	O4'-C1'	5.60	1.49	1.41
1	AA	980	C	C1'-N1	5.59	1.57	1.48
1	AA	1530	G	C4'-O4'	-5.59	1.38	1.45
26	BB	860	U	C4-C5	5.59	1.48	1.43
26	BB	1172	C	C5-C6	5.59	1.38	1.34
26	BB	1470	A	P-O5'	5.59	1.65	1.59
26	BB	1748	C	C2-N3	5.59	1.40	1.35
1	AA	566	G	C4'-O4'	-5.59	1.38	1.45
1	AA	822	U	O5'-C5'	-5.59	1.33	1.42
1	AA	1403	C	C4'-O4'	-5.59	1.38	1.45
1	AA	1428	A	C4'-C3'	-5.59	1.47	1.52
26	BB	1288	G	C3'-C2'	5.59	1.59	1.52
26	BB	1369	G	N7-C5	-5.59	1.35	1.39
26	BB	1661	G	C5-C6	5.59	1.48	1.42
26	BB	2206	C	C2'-O2'	-5.59	1.34	1.41
1	AA	402	G	C4'-O4'	-5.59	1.38	1.45
1	AA	883	C	N1-C2	5.59	1.45	1.40
1	AA	1114	C	N1-C6	5.59	1.40	1.37
1	AA	1219	A	C5'-C4'	5.59	1.58	1.51
1	AA	1411	C	C3'-C2'	5.59	1.59	1.52
26	BB	171	U	N1-C2	5.59	1.43	1.38
26	BB	188	G	N7-C5	5.59	1.42	1.39
26	BB	399	U	C2'-C1'	-5.59	1.47	1.53
26	BB	431	U	C4-O4	-5.59	1.19	1.23
26	BB	504	A	N9-C8	5.59	1.42	1.37
26	BB	1025	G	C3'-O3'	5.59	1.50	1.42
26	BB	1236	G	C3'-C2'	-5.59	1.46	1.52
26	BB	1588	G	C8-N7	5.59	1.34	1.30
26	BB	1688	U	O4'-C1'	5.59	1.49	1.41
26	BB	1969	A	C6-N6	5.59	1.38	1.33
26	BB	2547	A	C5-C4	-5.59	1.34	1.38
26	BB	2806	C	C4-N4	5.59	1.39	1.33
26	BB	2877	G	N7-C5	5.59	1.42	1.39
3	AC	51	C	N1-C6	5.59	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	262	A	P-O5'	5.59	1.65	1.59
1	AA	100	G	P-O5'	5.59	1.65	1.59
1	AA	1225	A	C5-C4	-5.59	1.34	1.38
4	AD	45	A	N7-C5	5.59	1.42	1.39
26	BB	478	A	N7-C5	-5.59	1.35	1.39
26	BB	646	U	C2'-C1'	5.59	1.59	1.53
26	BB	882	G	C8-N7	-5.59	1.27	1.30
26	BB	1493	C	N1-C6	5.59	1.40	1.37
26	BB	1541	C	C4-C5	5.59	1.47	1.43
26	BB	1574	C	C2-N3	5.59	1.40	1.35
26	BB	1840	G	C4'-C3'	-5.59	1.47	1.52
26	BB	2721	A	C2'-C1'	5.59	1.59	1.53
26	BB	2818	U	P-O5'	5.59	1.65	1.59
3	AC	21	U	C5-C6	5.58	1.39	1.34
26	BB	300	A	C8-N7	-5.58	1.27	1.31
26	BB	337	C	P-O5'	5.58	1.65	1.59
1	AA	86	G	O3'-P	5.58	1.67	1.61
1	AA	163	C	C2-N3	5.58	1.40	1.35
1	AA	801	U	C3'-O3'	5.58	1.50	1.42
1	AA	1074	G	N9-C4	5.58	1.42	1.38
1	AA	1107	C	N3-C4	5.58	1.37	1.33
1	AA	1365	G	C5'-C4'	5.58	1.58	1.51
1	AA	1497	G	N9-C8	-5.58	1.33	1.37
1	AA	1536	C	N1-C6	5.58	1.40	1.37
2	AB	13	C	C3'-C2'	5.58	1.59	1.52
25	BA	22	U	O4'-C1'	5.58	1.49	1.41
26	BB	1136	G	C3'-O3'	5.58	1.50	1.42
26	BB	2620	C	C4-C5	5.58	1.47	1.43
26	BB	2694	G	N7-C5	5.58	1.42	1.39
1	AA	468	A	C4'-O4'	-5.58	1.38	1.45
1	AA	625	U	N1-C2	5.58	1.43	1.38
1	AA	1064	G	N9-C4	-5.58	1.33	1.38
26	BB	513	A	C5'-C4'	5.58	1.58	1.51
26	BB	974	G	N9-C8	-5.58	1.33	1.37
26	BB	1439	A	C4'-C3'	5.58	1.59	1.53
26	BB	2271	G	N9-C4	-5.58	1.33	1.38
26	BB	2307	G	C3'-C2'	-5.58	1.46	1.52
26	BB	2686	G	C2'-C1'	-5.58	1.47	1.53
1	AA	168	G	C5-C6	-5.58	1.36	1.42
1	AA	368	U	N1-C2	5.58	1.43	1.38
26	BB	1058	U	C4'-O4'	-5.58	1.38	1.45
26	BB	1849	G	N7-C5	-5.58	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	297	G	C2-N3	5.58	1.37	1.32
26	BB	121	G	C8-N7	-5.58	1.27	1.30
26	BB	1111	A	P-O5'	5.58	1.65	1.59
26	BB	1284	A	N9-C4	5.58	1.41	1.37
26	BB	1684	G	P-O5'	5.58	1.65	1.59
26	BB	2244	U	C2-N3	5.58	1.41	1.37
26	BB	2651	C	C4-C5	5.58	1.47	1.43
1	AA	285	C	C2'-C1'	5.58	1.59	1.53
26	BB	536	G	C2-N3	-5.58	1.28	1.32
26	BB	581	C	N1-C2	5.58	1.45	1.40
26	BB	2377	A	C5-C6	5.58	1.46	1.41
26	BB	2497	A	C3'-C2'	-5.58	1.46	1.52
1	AA	263	A	C6-N6	5.58	1.38	1.33
1	AA	349	A	C8-N7	-5.58	1.27	1.31
1	AA	408	A	C4'-O4'	-5.58	1.38	1.45
1	AA	609	A	O3'-P	5.58	1.67	1.61
1	AA	880	C	C4-N4	-5.58	1.28	1.33
1	AA	1272	G	O3'-P	5.58	1.67	1.61
11	AK	83	ARG	NE-CZ	5.58	1.40	1.33
25	BA	50	A	P-O5'	-5.58	1.54	1.59
26	BB	51	G	N3-C4	5.58	1.39	1.35
26	BB	430	A	C8-N7	5.58	1.35	1.31
26	BB	654	A	N3-C4	5.58	1.38	1.34
26	BB	763	G	N9-C4	5.58	1.42	1.38
26	BB	1103	A	C4'-C3'	5.58	1.59	1.53
26	BB	1114	C	C5-C6	5.58	1.38	1.34
26	BB	1238	G	C2-N3	5.58	1.37	1.32
26	BB	1324	G	O4'-C1'	5.58	1.48	1.41
26	BB	1713	A	C4'-C3'	5.58	1.59	1.53
26	BB	2003	A	P-O5'	5.58	1.65	1.59
26	BB	2393	U	C4'-O4'	-5.58	1.38	1.45
26	BB	2609	U	C1'-N1	5.58	1.57	1.48
1	AA	107	G	C8-N7	5.57	1.34	1.30
1	AA	608	A	N9-C8	-5.57	1.33	1.37
1	AA	937	A	C5'-C4'	5.57	1.58	1.51
4	AD	53	G	C5'-C4'	5.57	1.58	1.51
26	BB	222	A	N3-C4	5.57	1.38	1.34
26	BB	724	U	C2-N3	5.57	1.41	1.37
26	BB	831	G	C5-C4	5.57	1.42	1.38
26	BB	1602	U	C3'-C2'	5.57	1.59	1.52
26	BB	1815	A	N9-C4	-5.57	1.34	1.37
26	BB	2214	C	C4'-O4'	-5.57	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2287	A	C5-C4	-5.57	1.34	1.38
26	BB	2534	A	N9-C4	-5.57	1.34	1.37
1	AA	860	A	P-O5'	5.57	1.65	1.59
26	BB	817	C	P-O5'	5.57	1.65	1.59
1	AA	101	A	C4'-C3'	-5.57	1.47	1.52
1	AA	689	C	N3-C4	5.57	1.37	1.33
1	AA	742	G	C5'-C4'	5.57	1.58	1.51
1	AA	883	C	C2-O2	-5.57	1.19	1.24
1	AA	1266	G	C2'-O2'	5.57	1.48	1.41
1	AA	1290	G	C8-N7	5.57	1.34	1.30
26	BB	522	A	N7-C5	-5.57	1.35	1.39
26	BB	672	C	N1-C2	5.57	1.45	1.40
26	BB	675	A	C6-N1	5.57	1.39	1.35
26	BB	1212	G	N9-C4	-5.57	1.33	1.38
26	BB	1896	G	N1-C2	5.57	1.42	1.37
26	BB	2263	C	C3'-C2'	5.57	1.59	1.52
1	AA	380	G	N7-C5	5.57	1.42	1.39
1	AA	546	A	C5-C6	5.57	1.46	1.41
26	BB	1074	G	C2-N3	5.57	1.37	1.32
26	BB	1096	A	C5'-C4'	5.57	1.58	1.51
26	BB	2412	A	O3'-P	5.57	1.67	1.61
1	AA	150	U	C5'-C4'	5.57	1.58	1.51
26	BB	177	G	P-O5'	5.57	1.65	1.59
26	BB	316	C	C5-C6	5.57	1.38	1.34
26	BB	1248	G	P-O5'	5.57	1.65	1.59
26	BB	2737	G	O4'-C1'	5.57	1.48	1.41
1	AA	591	U	C2-N3	5.57	1.41	1.37
1	AA	628	G	P-O5'	5.57	1.65	1.59
1	AA	1254	A	N3-C4	5.57	1.38	1.34
1	AA	1397	C	C2-O2	-5.57	1.19	1.24
3	AC	57	C	P-O5'	5.57	1.65	1.59
25	BA	19	C	C4-C5	5.57	1.47	1.43
26	BB	95	A	C4'-O4'	-5.57	1.38	1.45
26	BB	315	G	C6-N1	5.57	1.43	1.39
26	BB	725	G	N7-C5	5.57	1.42	1.39
26	BB	2342	C	O3'-P	5.57	1.67	1.61
26	BB	2436	G	C5-C4	-5.57	1.34	1.38
26	BB	2444	G	C5'-C4'	5.57	1.58	1.51
26	BB	2610	C	C5'-C4'	5.57	1.58	1.51
1	AA	842	U	C5-C6	5.56	1.39	1.34
1	AA	887	G	N7-C5	-5.56	1.35	1.39
1	AA	1154	G	O3'-P	5.56	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	680	C	C2-N3	5.56	1.40	1.35
26	BB	696	G	N9-C4	5.56	1.42	1.38
26	BB	1928	A	N1-C2	-5.56	1.29	1.34
26	BB	2087	G	C5-C4	-5.56	1.34	1.38
26	BB	2502	G	N7-C5	5.56	1.42	1.39
26	BB	2722	G	C6-N1	5.56	1.43	1.39
1	AA	889	A	C2'-O2'	-5.56	1.34	1.41
25	BA	88	C	P-O5'	5.56	1.65	1.59
26	BB	929	U	C4-C5	5.56	1.48	1.43
26	BB	1369	G	N9-C8	5.56	1.41	1.37
26	BB	2315	G	C2-N3	5.56	1.37	1.32
26	BB	2382	G	C4'-O4'	-5.56	1.38	1.45
1	AA	1297	G	C5-C4	5.56	1.42	1.38
1	AA	1332	A	C3'-C2'	5.56	1.59	1.52
1	AA	1528	U	N3-C4	5.56	1.43	1.38
26	BB	181	A	C6-N1	-5.56	1.31	1.35
26	BB	933	A	C4'-O4'	-5.56	1.38	1.45
26	BB	1857	G	N9-C4	5.56	1.42	1.38
1	AA	40	C	N1-C6	5.56	1.40	1.37
1	AA	371	A	C2-N3	-5.56	1.28	1.33
1	AA	1392	G	C2-N2	-5.56	1.28	1.34
25	BA	12	C	C3'-O3'	5.56	1.50	1.42
25	BA	93	C	C2'-C1'	-5.56	1.47	1.53
26	BB	109	C	C2'-C1'	5.56	1.59	1.53
26	BB	216	A	C3'-C2'	-5.56	1.46	1.52
26	BB	245	G	O3'-P	5.56	1.67	1.61
26	BB	425	G	P-O5'	5.56	1.65	1.59
26	BB	538	A	C4'-O4'	-5.56	1.38	1.45
26	BB	555	G	C6-N1	5.56	1.43	1.39
26	BB	1172	C	C3'-C2'	5.56	1.59	1.52
26	BB	1556	C	C4'-O4'	-5.56	1.38	1.45
26	BB	1873	G	C8-N7	5.56	1.34	1.30
26	BB	2182	U	C5'-C4'	5.56	1.58	1.51
26	BB	2287	A	P-O5'	5.56	1.65	1.59
26	BB	2315	G	O3'-P	-5.56	1.54	1.61
26	BB	2443	C	C4-C5	5.56	1.47	1.43
26	BB	2570	G	P-O5'	5.56	1.65	1.59
32	BH	154	GLU	CG-CD	5.56	1.60	1.51
1	AA	413	G	C3'-O3'	5.56	1.50	1.42
1	AA	597	G	C4'-C3'	-5.56	1.47	1.52
1	AA	1354	U	C5'-C4'	5.56	1.58	1.51
2	AB	51	G	C5-C6	5.56	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	117	G	C2-N2	5.56	1.40	1.34
26	BB	383	C	C4'-O4'	-5.56	1.38	1.45
26	BB	1448	G	N3-C4	5.56	1.39	1.35
26	BB	2125	G	O3'-P	5.56	1.67	1.61
26	BB	2510	C	C5'-C4'	5.56	1.58	1.51
26	BB	2838	G	N9-C8	5.56	1.41	1.37
25	BA	100	G	C8-N7	-5.56	1.27	1.30
26	BB	1150	C	C5'-C4'	5.56	1.58	1.51
26	BB	1559	U	P-O5'	5.56	1.65	1.59
26	BB	2665	A	N9-C4	-5.56	1.34	1.37
1	AA	669	G	N1-C2	5.55	1.42	1.37
1	AA	1484	C	C2-N3	5.55	1.40	1.35
26	BB	1641	A	C8-N7	5.55	1.35	1.31
26	BB	2803	G	C5'-C4'	5.55	1.58	1.51
1	AA	199	A	C5-C4	-5.55	1.34	1.38
1	AA	266	G	C2'-O2'	-5.55	1.34	1.41
1	AA	1145	A	C2'-O2'	5.55	1.48	1.41
1	AA	1429	A	C4'-O4'	-5.55	1.38	1.45
26	BB	291	G	N9-C8	-5.55	1.33	1.37
26	BB	780	G	O3'-P	5.55	1.67	1.61
26	BB	1379	U	C4-C5	5.55	1.48	1.43
26	BB	1589	U	N3-C4	5.55	1.43	1.38
26	BB	2076	U	N1-C2	5.55	1.43	1.38
26	BB	2201	G	C6-O6	-5.55	1.19	1.24
26	BB	2829	A	C5'-C4'	5.55	1.58	1.51
1	AA	222	C	C3'-C2'	5.55	1.59	1.52
1	AA	378	G	C5-C4	-5.55	1.34	1.38
1	AA	799	G	N9-C4	5.55	1.42	1.38
1	AA	1196	A	P-O5'	5.55	1.65	1.59
2	AB	57	G	C4'-O4'	-5.55	1.38	1.45
3	AC	52	U	C4'-C3'	5.55	1.59	1.53
26	BB	48	G	N7-C5	-5.55	1.35	1.39
26	BB	96	C	C4-C5	5.55	1.47	1.43
26	BB	375	G	C6-N1	-5.55	1.35	1.39
26	BB	1042	G	C6-O6	-5.55	1.19	1.24
26	BB	1056	G	C3'-O3'	5.55	1.50	1.42
26	BB	1152	C	P-O5'	5.55	1.65	1.59
26	BB	2509	G	N9-C4	5.55	1.42	1.38
26	BB	2688	G	C6-N1	5.55	1.43	1.39
1	AA	344	A	N9-C4	5.55	1.41	1.37
1	AA	353	A	N3-C4	5.55	1.38	1.34
1	AA	826	C	C2'-C1'	-5.55	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	945	G	N9-C4	5.55	1.42	1.38
26	BB	91	A	N7-C5	5.55	1.42	1.39
26	BB	1546	G	C6-O6	-5.55	1.19	1.24
26	BB	2340	A	C4'-O4'	-5.55	1.38	1.45
26	BB	2653	U	O3'-P	5.55	1.67	1.61
26	BB	203	A	C5-C4	5.55	1.42	1.38
26	BB	1168	G	C3'-C2'	5.55	1.59	1.52
26	BB	1442	U	C4-C5	5.55	1.48	1.43
1	AA	1082	A	C6-N6	5.55	1.38	1.33
1	AA	1224	U	O3'-P	5.55	1.67	1.61
2	AB	4	G	C4'-C3'	5.55	1.59	1.53
2	AB	35	C	N3-C4	5.55	1.37	1.33
26	BB	272	A	O3'-P	5.55	1.67	1.61
26	BB	984	A	P-O5'	5.55	1.65	1.59
26	BB	1332	G	C4'-C3'	5.55	1.59	1.53
26	BB	1402	U	P-O5'	5.55	1.65	1.59
26	BB	1546	G	N3-C4	5.55	1.39	1.35
26	BB	1890	A	C6-N1	5.55	1.39	1.35
26	BB	2587	A	N3-C4	5.55	1.38	1.34
1	AA	49	U	N1-C2	5.54	1.43	1.38
1	AA	365	U	C4'-C3'	-5.54	1.47	1.52
1	AA	759	A	C6-N1	-5.54	1.31	1.35
1	AA	1535	C	C5'-C4'	5.54	1.58	1.51
26	BB	536	G	N7-C5	5.54	1.42	1.39
26	BB	1041	G	C2'-O2'	5.54	1.48	1.41
26	BB	1672	A	N3-C4	5.54	1.38	1.34
26	BB	1729	U	P-O5'	5.54	1.65	1.59
26	BB	2058	A	C5-C6	5.54	1.46	1.41
26	BB	2606	C	C4-N4	5.54	1.39	1.33
26	BB	2829	A	O4'-C1'	5.54	1.48	1.41
1	AA	442	G	C4'-O4'	-5.54	1.38	1.45
1	AA	730	G	N7-C5	5.54	1.42	1.39
1	AA	1244	G	P-O5'	5.54	1.65	1.59
26	BB	80	G	N3-C4	5.54	1.39	1.35
26	BB	302	C	N1-C2	5.54	1.45	1.40
26	BB	1440	U	C5-C6	5.54	1.39	1.34
26	BB	2245	U	C2'-O2'	5.54	1.48	1.41
26	BB	2282	G	N3-C4	5.54	1.39	1.35
1	AA	276	G	C6-N1	-5.54	1.35	1.39
1	AA	584	G	C5'-C4'	5.54	1.57	1.51
1	AA	982	U	C2-N3	5.54	1.41	1.37
1	AA	1294	G	N3-C4	5.54	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	520	G	C2-N3	5.54	1.37	1.32
1	AA	888	G	N7-C5	-5.54	1.35	1.39
1	AA	1189	U	C5-C6	5.54	1.39	1.34
26	BB	1341	G	N3-C4	5.54	1.39	1.35
1	AA	151	A	P-O5'	5.54	1.65	1.59
1	AA	188	C	C4-N4	-5.54	1.28	1.33
1	AA	447	G	C5-C4	5.54	1.42	1.38
1	AA	1182	G	N7-C5	5.54	1.42	1.39
1	AA	1290	G	C2-N3	5.54	1.37	1.32
26	BB	1804	C	C2-O2	-5.54	1.19	1.24
26	BB	1862	G	C5-C4	-5.54	1.34	1.38
26	BB	1876	A	O3'-P	5.54	1.67	1.61
26	BB	2161	C	P-O5'	5.54	1.65	1.59
35	BK	15	GLY	N-CA	5.54	1.54	1.46
1	AA	724	G	C8-N7	5.54	1.34	1.30
26	BB	158	U	P-O5'	5.54	1.65	1.59
26	BB	177	G	C4'-O4'	-5.54	1.38	1.45
26	BB	1780	A	N7-C5	-5.54	1.35	1.39
26	BB	2256	G	P-O5'	5.54	1.65	1.59
1	AA	20	U	P-O5'	5.54	1.65	1.59
1	AA	159	G	P-O5'	5.54	1.65	1.59
1	AA	778	G	N9-C4	5.54	1.42	1.38
1	AA	824	G	C2-N3	5.54	1.37	1.32
1	AA	941	G	N3-C4	5.54	1.39	1.35
1	AA	1287	A	C2'-O2'	-5.54	1.34	1.41
1	AA	1378	C	C2-N3	-5.54	1.31	1.35
1	AA	1397	C	C4-C5	5.54	1.47	1.43
26	BB	631	A	N9-C4	5.54	1.41	1.37
26	BB	1955	U	C2'-C1'	-5.54	1.47	1.53
26	BB	2135	A	C5'-C4'	5.54	1.57	1.51
26	BB	2506	U	C3'-O3'	5.54	1.49	1.42
1	AA	260	G	N7-C5	-5.53	1.35	1.39
1	AA	1185	G	O4'-C1'	5.53	1.48	1.41
1	AA	1443	C	O4'-C1'	5.53	1.48	1.41
25	BA	28	C	C5'-C4'	5.53	1.57	1.51
26	BB	598	U	C2-N3	5.53	1.41	1.37
26	BB	673	C	C3'-C2'	-5.53	1.46	1.52
26	BB	1020	A	C5'-C4'	5.53	1.57	1.51
26	BB	1294	U	N1-C2	5.53	1.43	1.38
26	BB	1539	U	N3-C4	5.53	1.43	1.38
26	BB	2016	U	C2'-O2'	5.53	1.48	1.41
26	BB	2122	U	C5'-C4'	5.53	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2703	C	N3-C4	5.53	1.37	1.33
26	BB	2749	A	C6-N1	-5.53	1.31	1.35
26	BB	73	A	C5-C4	5.53	1.42	1.38
26	BB	1123	C	N1-C6	-5.53	1.33	1.37
26	BB	1170	C	C4'-C3'	-5.53	1.47	1.52
26	BB	1190	G	N3-C4	5.53	1.39	1.35
26	BB	1895	C	C4-C5	5.53	1.47	1.43
1	AA	588	G	N7-C5	5.53	1.42	1.39
1	AA	1283	U	P-O5'	5.53	1.65	1.59
4	AD	43	G	C4'-O4'	-5.53	1.38	1.45
4	AD	60	A	C2'-C1'	-5.53	1.47	1.53
26	BB	128	C	C4'-O4'	-5.53	1.38	1.45
26	BB	283	G	P-O5'	5.53	1.65	1.59
26	BB	334	C	C4'-O4'	-5.53	1.38	1.45
26	BB	1350	C	C4'-O4'	-5.53	1.38	1.45
26	BB	2143	C	C4-C5	-5.53	1.38	1.43
26	BB	2630	G	P-O5'	5.53	1.65	1.59
1	AA	1123	U	C2-N3	5.53	1.41	1.37
2	AB	18	G	C5-C6	5.53	1.47	1.42
21	AU	72	ARG	NE-CZ	5.53	1.40	1.33
31	BG	83	PRO	N-CD	-5.53	1.40	1.47
1	AA	277	C	C2-N3	5.53	1.40	1.35
1	AA	512	U	N3-C4	5.53	1.43	1.38
1	AA	743	A	C5-C6	5.53	1.46	1.41
1	AA	1473	G	C4'-O4'	-5.53	1.38	1.45
25	BA	116	G	C2'-O2'	5.53	1.48	1.41
26	BB	1278	C	N3-C4	5.53	1.37	1.33
26	BB	1387	A	C5-C6	5.53	1.46	1.41
26	BB	1487	U	O3'-P	5.53	1.67	1.61
26	BB	1734	G	N1-C2	5.53	1.42	1.37
1	AA	71	A	O4'-C1'	-5.53	1.34	1.41
1	AA	102	G	N7-C5	5.53	1.42	1.39
1	AA	108	G	N1-C2	5.53	1.42	1.37
1	AA	341	C	C5-C6	5.53	1.38	1.34
1	AA	1446	A	N9-C8	5.53	1.42	1.37
13	AM	65	TYR	CG-CD1	5.53	1.46	1.39
26	BB	721	A	C4'-O4'	-5.53	1.38	1.45
26	BB	908	C	N1-C6	5.53	1.40	1.37
26	BB	1476	U	C2-N3	5.53	1.41	1.37
1	AA	259	G	C2-N3	5.52	1.37	1.32
1	AA	704	A	N7-C5	-5.52	1.35	1.39
1	AA	1125	U	N1-C2	5.52	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1350	A	P-O5'	-5.52	1.54	1.59
25	BA	74	U	C2-O2	5.52	1.27	1.22
26	BB	2091	C	C3'-C2'	-5.52	1.46	1.52
26	BB	2545	G	N7-C5	5.52	1.42	1.39
26	BB	2568	U	N1-C2	5.52	1.43	1.38
1	AA	874	G	C5'-C4'	5.52	1.57	1.51
1	AA	905	U	C4-O4	-5.52	1.19	1.23
1	AA	990	C	P-O5'	5.52	1.65	1.59
1	AA	999	C	N1-C6	5.52	1.40	1.37
25	BA	72	G	C4'-O4'	-5.52	1.38	1.45
26	BB	366	C	C5'-C4'	5.52	1.57	1.51
26	BB	890	C	N1-C2	5.52	1.45	1.40
26	BB	1352	U	N3-C4	-5.52	1.33	1.38
26	BB	1752	C	C2'-O2'	5.52	1.48	1.41
26	BB	1865	U	C4-C5	5.52	1.48	1.43
26	BB	2107	G	N3-C4	-5.52	1.31	1.35
26	BB	2229	U	C2'-O2'	5.52	1.48	1.41
26	BB	2410	G	C3'-O3'	5.52	1.49	1.42
26	BB	2472	G	C4'-O4'	-5.52	1.38	1.45
26	BB	2842	G	N7-C5	5.52	1.42	1.39
26	BB	2869	G	C8-N7	-5.52	1.27	1.30
34	BJ	89	GLY	CA-C	5.52	1.60	1.51
25	BA	67	G	O4'-C1'	-5.52	1.34	1.41
26	BB	350	G	C2'-C1'	-5.52	1.47	1.53
26	BB	602	A	C8-N7	-5.52	1.27	1.31
26	BB	1077	A	C6-N6	5.52	1.38	1.33
26	BB	2524	G	C2-N2	-5.52	1.29	1.34
26	BB	2795	C	C2-N3	5.52	1.40	1.35
1	AA	68	G	C2-N3	5.52	1.37	1.32
1	AA	222	C	N1-C6	-5.52	1.33	1.37
1	AA	869	G	N9-C8	-5.52	1.33	1.37
1	AA	1307	U	N1-C6	5.52	1.43	1.38
1	AA	1331	G	N3-C4	5.52	1.39	1.35
26	BB	289	G	C2'-O2'	5.52	1.48	1.41
26	BB	1267	U	C2'-O2'	-5.52	1.34	1.41
26	BB	2308	G	C5-C4	5.52	1.42	1.38
26	BB	2339	C	P-O5'	5.52	1.65	1.59
26	BB	772	C	C5'-C4'	5.52	1.57	1.51
26	BB	1242	U	P-O5'	5.52	1.65	1.59
26	BB	1292	G	N9-C8	-5.52	1.33	1.37
26	BB	1434	A	P-O5'	5.52	1.65	1.59
26	BB	1964	G	N3-C4	5.52	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2134	A	C6-N1	-5.52	1.31	1.35
26	BB	2366	A	C5-C4	-5.52	1.34	1.38
1	AA	145	G	C4'-C3'	5.52	1.59	1.53
1	AA	1051	C	C4'-O4'	-5.52	1.38	1.45
26	BB	149	A	N9-C4	-5.52	1.34	1.37
26	BB	1080	A	O3'-P	5.52	1.67	1.61
26	BB	1252	G	N7-C5	5.52	1.42	1.39
26	BB	1622	G	C6-O6	-5.52	1.19	1.24
26	BB	2351	G	O3'-P	5.52	1.67	1.61
1	AA	143	A	N9-C4	-5.51	1.34	1.37
1	AA	216	U	P-O5'	5.51	1.65	1.59
1	AA	1004	A	C5'-C4'	5.51	1.57	1.51
1	AA	1187	G	C4'-O4'	-5.51	1.38	1.45
1	AA	1240	U	P-O5'	5.51	1.65	1.59
2	AB	41	C	C4'-O4'	-5.51	1.38	1.45
26	BB	429	A	N7-C5	-5.51	1.35	1.39
26	BB	545	U	C5-C6	5.51	1.39	1.34
26	BB	589	U	N3-C4	5.51	1.43	1.38
26	BB	910	A	N7-C5	-5.51	1.35	1.39
26	BB	1001	A	C8-N7	5.51	1.35	1.31
26	BB	1697	G	C6-N1	-5.51	1.35	1.39
26	BB	2111	U	C4-O4	-5.51	1.19	1.23
26	BB	2541	A	C5-C4	5.51	1.42	1.38
26	BB	2814	A	C8-N7	-5.51	1.27	1.31
37	BM	31	ARG	CZ-NH1	5.51	1.40	1.33
1	AA	824	G	N3-C4	5.51	1.39	1.35
2	AB	56	C	N3-C4	5.51	1.37	1.33
26	BB	654	A	N9-C4	5.51	1.41	1.37
26	BB	735	A	C3'-O3'	5.51	1.49	1.42
26	BB	1291	C	C4-C5	5.51	1.47	1.43
1	AA	64	G	C8-N7	5.51	1.34	1.30
1	AA	724	G	O5'-C5'	-5.51	1.34	1.42
1	AA	1454	G	O3'-P	5.51	1.67	1.61
25	BA	106	G	P-O5'	5.51	1.65	1.59
26	BB	600	G	C2'-C1'	5.51	1.59	1.53
26	BB	887	U	C3'-C2'	-5.51	1.46	1.52
26	BB	1203	U	C4'-O4'	-5.51	1.38	1.45
26	BB	1326	U	P-O5'	5.51	1.65	1.59
26	BB	1488	C	N1-C6	-5.51	1.33	1.37
26	BB	1981	A	C5'-C4'	5.51	1.57	1.51
26	BB	2116	G	C8-N7	-5.51	1.27	1.30
26	BB	2172	U	C3'-O3'	5.51	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	745	G	C4'-O4'	-5.51	1.38	1.45
1	AA	1159	U	N3-C4	5.51	1.43	1.38
26	BB	17	G	O3'-P	5.51	1.67	1.61
26	BB	260	G	P-O5'	5.51	1.65	1.59
26	BB	1496	A	C4'-O4'	-5.51	1.38	1.45
26	BB	2260	C	N1-C6	5.51	1.40	1.37
26	BB	2319	G	C2-N3	5.51	1.37	1.32
26	BB	2337	G	C8-N7	5.51	1.34	1.30
26	BB	2497	A	N7-C5	5.51	1.42	1.39
1	AA	1532	U	C1'-N1	5.51	1.57	1.48
26	BB	517	C	C4'-C3'	5.51	1.59	1.53
26	BB	1173	U	C2-N3	5.51	1.41	1.37
26	BB	1898	U	C3'-O3'	5.51	1.49	1.42
26	BB	2081	U	C5'-C4'	5.51	1.57	1.51
54	B3	48	TYR	CZ-OH	-5.51	1.28	1.37
1	AA	447	G	C6-N1	-5.51	1.35	1.39
1	AA	501	C	C2'-C1'	-5.51	1.47	1.53
1	AA	1189	U	C2-N3	5.51	1.41	1.37
1	AA	1298	U	C2'-C1'	-5.51	1.47	1.53
3	AC	24	A	C2-N3	5.51	1.38	1.33
25	BA	1	U	C4'-O4'	-5.51	1.38	1.45
26	BB	88	G	C4'-C3'	5.51	1.59	1.53
26	BB	636	G	O3'-P	5.51	1.67	1.61
26	BB	2223	G	N3-C4	5.51	1.39	1.35
1	AA	41	G	N3-C4	5.50	1.39	1.35
1	AA	70	U	C2'-O2'	5.50	1.48	1.41
26	BB	926	G	N7-C5	5.50	1.42	1.39
1	AA	250	A	O3'-P	5.50	1.67	1.61
1	AA	442	G	N1-C2	5.50	1.42	1.37
1	AA	655	A	C2-N3	-5.50	1.28	1.33
1	AA	728	A	O3'-P	5.50	1.67	1.61
1	AA	891	U	C2'-C1'	5.50	1.59	1.53
6	AF	53	ARG	CZ-NH1	5.50	1.40	1.33
26	BB	98	G	C2-N2	-5.50	1.29	1.34
26	BB	260	G	N9-C4	5.50	1.42	1.38
26	BB	313	G	C2'-C1'	5.50	1.59	1.53
26	BB	954	G	N7-C5	5.50	1.42	1.39
26	BB	1296	G	C2'-C1'	5.50	1.59	1.53
26	BB	1737	G	C6-N1	5.50	1.43	1.39
26	BB	2123	G	N1-C2	5.50	1.42	1.37
26	BB	2143	C	C2-N3	5.50	1.40	1.35
26	BB	2398	U	C4-O4	5.50	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2595	G	P-O5'	5.50	1.65	1.59
26	BB	2646	C	C2-N3	5.50	1.40	1.35
1	AA	109	A	C5-C6	5.50	1.46	1.41
1	AA	187	G	N1-C2	5.50	1.42	1.37
1	AA	432	A	C3'-C2'	5.50	1.59	1.52
1	AA	893	C	P-O5'	5.50	1.65	1.59
1	AA	1342	C	C2-N3	5.50	1.40	1.35
1	AA	1447	A	C2-N3	5.50	1.38	1.33
3	AC	35	G	C6-N1	5.50	1.43	1.39
26	BB	125	A	C2'-C1'	-5.50	1.47	1.53
26	BB	435	C	C2-N3	5.50	1.40	1.35
26	BB	692	C	C4'-C3'	5.50	1.59	1.53
26	BB	713	G	P-O5'	5.50	1.65	1.59
26	BB	869	G	C2-N3	5.50	1.37	1.32
26	BB	902	C	N3-C4	5.50	1.37	1.33
26	BB	1241	A	C4'-O4'	-5.50	1.38	1.45
26	BB	1675	C	N1-C2	5.50	1.45	1.40
26	BB	2411	A	N1-C2	5.50	1.39	1.34
43	BS	24	TYR	CB-CG	5.50	1.59	1.51
1	AA	60	A	C5'-C4'	5.50	1.57	1.51
1	AA	1203	C	N3-C4	5.50	1.37	1.33
1	AA	1366	C	O4'-C1'	5.50	1.48	1.41
4	AD	38	A	C6-N6	5.50	1.38	1.33
26	BB	244	A	P-O5'	5.50	1.65	1.59
26	BB	1316	U	N1-C6	-5.50	1.32	1.38
26	BB	1393	A	C5-C6	5.50	1.46	1.41
1	AA	448	A	C2'-C1'	-5.50	1.47	1.53
1	AA	1089	G	C8-N7	-5.50	1.27	1.30
1	AA	1513	A	C8-N7	-5.50	1.27	1.31
4	AD	42	C	O4'-C1'	5.50	1.48	1.41
26	BB	36	G	N3-C4	-5.50	1.31	1.35
26	BB	1207	C	C1'-N1	5.50	1.56	1.48
26	BB	1617	C	C5'-C4'	5.50	1.57	1.51
26	BB	2012	G	C2-N3	5.50	1.37	1.32
26	BB	2111	U	C5-C6	5.50	1.39	1.34
30	BF	183	PHE	CG-CD2	5.50	1.47	1.38
1	AA	278	G	N7-C5	5.50	1.42	1.39
1	AA	367	U	P-O5'	5.50	1.65	1.59
1	AA	394	G	C2'-C1'	5.50	1.59	1.53
1	AA	675	A	N1-C2	5.50	1.39	1.34
1	AA	1375	A	O3'-P	5.50	1.67	1.61
1	AA	1434	A	C6-N1	5.50	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	29	C	C5'-C4'	5.50	1.57	1.51
26	BB	133	U	C2'-O2'	-5.50	1.34	1.41
26	BB	265	A	C5-C4	5.50	1.42	1.38
26	BB	873	C	N3-C4	5.50	1.37	1.33
26	BB	1139	G	C2-N2	-5.50	1.29	1.34
1	AA	195	A	P-O5'	5.50	1.65	1.59
1	AA	1164	G	C6-O6	5.50	1.29	1.24
26	BB	20	C	P-O5'	5.50	1.65	1.59
26	BB	237	C	N1-C6	5.50	1.40	1.37
26	BB	654	A	C6-N6	5.50	1.38	1.33
26	BB	2714	G	P-O5'	5.50	1.65	1.59
1	AA	564	C	C5'-C4'	5.49	1.57	1.51
1	AA	1183	U	C2-N3	5.49	1.41	1.37
1	AA	1250	A	C5-C6	-5.49	1.36	1.41
26	BB	728	G	C2-N3	5.49	1.37	1.32
26	BB	759	G	P-O5'	5.49	1.65	1.59
26	BB	891	G	C8-N7	5.49	1.34	1.30
26	BB	1361	G	C3'-C2'	5.49	1.58	1.52
26	BB	1601	G	N9-C4	5.49	1.42	1.38
26	BB	2898	U	N3-C4	5.49	1.43	1.38
26	BB	2169	A	C6-N1	-5.49	1.31	1.35
26	BB	2587	A	C2-N3	-5.49	1.28	1.33
1	AA	53	A	P-O5'	5.49	1.65	1.59
1	AA	340	U	C4-C5	5.49	1.48	1.43
26	BB	5	A	C6-N6	-5.49	1.29	1.33
26	BB	1720	U	C1'-N1	5.49	1.56	1.48
26	BB	1819	A	C4'-C3'	5.49	1.59	1.53
26	BB	2594	C	C5-C6	5.49	1.38	1.34
1	AA	367	U	C2'-C1'	5.49	1.59	1.53
1	AA	388	G	N1-C2	-5.49	1.33	1.37
1	AA	466	A	N9-C4	5.49	1.41	1.37
1	AA	498	A	C5'-C4'	5.49	1.57	1.51
1	AA	951	G	C2'-O2'	-5.49	1.34	1.41
1	AA	1347	G	P-O5'	5.49	1.65	1.59
2	AB	22	G	C2-N3	5.49	1.37	1.32
25	BA	39	A	O3'-P	5.49	1.67	1.61
26	BB	526	A	N3-C4	-5.49	1.31	1.34
26	BB	854	C	P-O5'	5.49	1.65	1.59
26	BB	2286	G	N3-C4	5.49	1.39	1.35
26	BB	2710	C	N3-C4	5.49	1.37	1.33
1	AA	1406	U	C4-C5	5.49	1.48	1.43
1	AA	1482	G	N9-C4	5.49	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1278	C	C2-N3	5.49	1.40	1.35
26	BB	1362	C	C4'-O4'	-5.49	1.38	1.45
1	AA	2	A	C6-N1	-5.49	1.31	1.35
2	AB	76	A	C2'-C1'	5.49	1.59	1.53
16	AP	100	ARG	CD-NE	5.49	1.55	1.46
21	AU	3	TYR	CG-CD1	-5.49	1.32	1.39
26	BB	30	G	C2-N3	5.49	1.37	1.32
26	BB	1495	A	C4'-C3'	5.49	1.59	1.53
26	BB	1623	G	O3'-P	5.49	1.67	1.61
26	BB	1634	A	N7-C5	-5.49	1.35	1.39
26	BB	1786	A	C2'-C1'	5.49	1.59	1.53
26	BB	2895	G	C8-N7	5.49	1.34	1.30
1	AA	489	C	C2-N3	5.48	1.40	1.35
26	BB	34	U	P-O5'	5.48	1.65	1.59
26	BB	84	A	P-O5'	5.48	1.65	1.59
26	BB	373	U	C2'-O2'	5.48	1.48	1.41
26	BB	934	U	C4'-C3'	5.48	1.59	1.53
26	BB	1892	C	C4-N4	5.48	1.38	1.33
26	BB	2283	C	N1-C6	-5.48	1.33	1.37
26	BB	2314	A	C4'-O4'	-5.48	1.38	1.45
1	AA	621	A	N1-C2	-5.48	1.29	1.34
1	AA	932	C	C5-C6	5.48	1.38	1.34
2	AB	66	C	C2-O2	-5.48	1.19	1.24
3	AC	54	U	C2-N3	5.48	1.41	1.37
26	BB	104	A	C5-C6	5.48	1.46	1.41
26	BB	143	C	P-O5'	-5.48	1.54	1.59
26	BB	171	U	C4'-O4'	-5.48	1.38	1.45
26	BB	582	A	C2'-C1'	-5.48	1.47	1.53
26	BB	1047	G	N7-C5	-5.48	1.35	1.39
26	BB	1301	A	O3'-P	5.48	1.67	1.61
1	AA	109	A	O3'-P	5.48	1.67	1.61
1	AA	404	G	N7-C5	-5.48	1.35	1.39
1	AA	1279	G	N7-C5	5.48	1.42	1.39
3	AC	55	A	C5'-C4'	5.48	1.57	1.51
26	BB	50	U	C3'-C2'	-5.48	1.46	1.52
26	BB	568	U	C2-O2	5.48	1.27	1.22
26	BB	775	G	P-O5'	5.48	1.65	1.59
26	BB	942	G	C6-O6	-5.48	1.19	1.24
26	BB	1024	G	N3-C4	5.48	1.39	1.35
26	BB	1309	G	N7-C5	-5.48	1.35	1.39
26	BB	1328	A	C6-N6	-5.48	1.29	1.33
26	BB	2284	A	C4'-C3'	5.48	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2831	G	C8-N7	5.48	1.34	1.30
26	BB	206	U	C4'-O4'	-5.48	1.38	1.45
26	BB	2275	C	C4'-O4'	-5.48	1.38	1.45
26	BB	2357	G	C5-C4	5.48	1.42	1.38
26	BB	2654	A	C5-C6	5.48	1.46	1.41
33	BI	51	ARG	NE-CZ	5.48	1.40	1.33
1	AA	247	G	N9-C4	5.48	1.42	1.38
1	AA	625	U	C2-N3	5.48	1.41	1.37
1	AA	1232	U	O3'-P	5.48	1.67	1.61
4	AD	47	A	O5'-C5'	-5.48	1.34	1.42
7	AG	96	ARG	CZ-NH1	5.48	1.40	1.33
26	BB	1469	A	P-O5'	5.48	1.65	1.59
26	BB	2392	A	C8-N7	-5.48	1.27	1.31
34	BJ	13	GLU	CB-CG	5.48	1.62	1.52
1	AA	268	U	O4'-C1'	5.48	1.48	1.41
1	AA	345	C	C4'-O4'	-5.48	1.38	1.45
1	AA	831	A	C5'-C4'	5.48	1.57	1.51
26	BB	2469	A	N9-C4	-5.48	1.34	1.37
1	AA	815	A	C5-C4	-5.47	1.34	1.38
1	AA	1201	A	N3-C4	5.47	1.38	1.34
3	AC	35	G	C4'-C3'	5.47	1.59	1.53
26	BB	120	U	N3-C4	5.47	1.43	1.38
26	BB	305	C	C4'-O4'	-5.47	1.38	1.45
26	BB	329	G	N3-C4	5.47	1.39	1.35
26	BB	722	A	O3'-P	5.47	1.67	1.61
26	BB	2238	G	C4'-O4'	-5.47	1.38	1.45
1	AA	938	A	C8-N7	5.47	1.35	1.31
1	AA	1288	A	C1'-N9	5.47	1.56	1.48
1	AA	1460	C	C4-C5	5.47	1.47	1.43
8	AH	19	ARG	CZ-NH2	5.47	1.40	1.33
26	BB	341	C	C4'-O4'	-5.47	1.38	1.45
26	BB	613	A	C8-N7	-5.47	1.27	1.31
26	BB	1053	C	C5'-C4'	5.47	1.57	1.51
26	BB	1182	G	N1-C2	5.47	1.42	1.37
26	BB	1359	A	C2-N3	5.47	1.38	1.33
49	BY	69	GLU	CG-CD	5.47	1.60	1.51
26	BB	219	A	C6-N6	-5.47	1.29	1.33
26	BB	396	G	N9-C4	5.47	1.42	1.38
26	BB	439	A	C8-N7	-5.47	1.27	1.31
26	BB	921	C	C2'-C1'	-5.47	1.47	1.53
26	BB	2264	C	C4'-O4'	-5.47	1.38	1.45
1	AA	451	A	C6-N1	-5.47	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	654	G	C4'-O4'	-5.47	1.38	1.45
1	AA	1371	G	C2'-C1'	-5.47	1.47	1.53
9	AI	100	SER	CA-CB	5.47	1.61	1.52
26	BB	27	G	N3-C4	5.47	1.39	1.35
26	BB	41	C	C4-C5	5.47	1.47	1.43
26	BB	186	G	C2'-C1'	-5.47	1.47	1.53
26	BB	240	C	C4-N4	5.47	1.38	1.33
26	BB	368	A	C5-C4	5.47	1.42	1.38
26	BB	1114	C	C4-C5	5.47	1.47	1.43
26	BB	2009	A	C6-N1	5.47	1.39	1.35
26	BB	2527	C	C2-N3	5.47	1.40	1.35
1	AA	469	C	C4'-O4'	-5.47	1.38	1.45
26	BB	1	G	N7-C5	5.47	1.42	1.39
26	BB	873	C	C4-C5	5.47	1.47	1.43
26	BB	1033	U	N1-C2	5.47	1.43	1.38
1	AA	102	G	C8-N7	5.47	1.34	1.30
1	AA	874	G	P-O5'	5.47	1.65	1.59
1	AA	1108	G	C6-O6	5.47	1.29	1.24
1	AA	1233	G	N9-C4	5.47	1.42	1.38
1	AA	1240	U	C4'-C3'	5.47	1.59	1.53
1	AA	1380	U	C2-N3	5.47	1.41	1.37
26	BB	21	A	C5'-C4'	5.47	1.57	1.51
26	BB	217	A	C5'-C4'	5.47	1.57	1.51
26	BB	417	C	C5'-C4'	5.47	1.57	1.51
26	BB	681	G	C6-O6	-5.47	1.19	1.24
26	BB	982	C	O3'-P	5.47	1.67	1.61
26	BB	1702	G	C8-N7	5.47	1.34	1.30
26	BB	2421	G	C2-N3	5.47	1.37	1.32
1	AA	1266	G	C2-N3	5.46	1.37	1.32
26	BB	365	U	C5'-C4'	5.46	1.57	1.51
26	BB	1010	A	C4'-C3'	5.46	1.59	1.53
26	BB	1098	A	O4'-C1'	5.46	1.48	1.41
26	BB	1642	G	C1'-N9	5.46	1.56	1.48
26	BB	1684	G	N3-C4	5.46	1.39	1.35
26	BB	1834	U	C4'-C3'	5.46	1.59	1.53
26	BB	2649	C	C4-N4	5.46	1.38	1.33
26	BB	2650	U	N1-C2	5.46	1.43	1.38
26	BB	2699	C	C2-N3	5.46	1.40	1.35
26	BB	827	U	C2-N3	5.46	1.41	1.37
26	BB	973	A	C5-C4	-5.46	1.34	1.38
1	AA	483	C	N1-C6	5.46	1.40	1.37
1	AA	510	A	O3'-P	5.46	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	672	U	C4-C5	5.46	1.48	1.43
3	AC	51	C	P-O5'	5.46	1.65	1.59
26	BB	1136	G	C5-C6	5.46	1.47	1.42
26	BB	1672	A	O3'-P	5.46	1.67	1.61
26	BB	1748	C	O4'-C1'	5.46	1.48	1.41
26	BB	1788	C	N1-C6	-5.46	1.33	1.37
26	BB	1921	G	C8-N7	-5.46	1.27	1.30
26	BB	1926	U	C5'-C4'	5.46	1.57	1.51
26	BB	2184	A	C2'-C1'	-5.46	1.47	1.53
26	BB	2855	C	O3'-P	5.46	1.67	1.61
1	AA	212	G	O3'-P	5.46	1.67	1.61
1	AA	275	G	C2-N3	5.46	1.37	1.32
1	AA	339	C	C4-C5	5.46	1.47	1.43
1	AA	502	A	P-O5'	5.46	1.65	1.59
1	AA	629	A	C4'-O4'	-5.46	1.38	1.45
1	AA	636	U	C5-C6	5.46	1.39	1.34
2	AB	42	G	P-O5'	5.46	1.65	1.59
4	AD	11	A	N3-C4	5.46	1.38	1.34
19	AS	28	ARG	CZ-NH2	5.46	1.40	1.33
26	BB	2892	G	C2-N2	-5.46	1.29	1.34
1	AA	45	G	O3'-P	5.46	1.67	1.61
1	AA	318	G	N3-C4	5.46	1.39	1.35
1	AA	413	G	C3'-C2'	-5.46	1.46	1.52
1	AA	414	A	C6-N1	5.46	1.39	1.35
1	AA	998	C	C4'-C3'	5.46	1.59	1.53
1	AA	1275	A	C6-N6	5.46	1.38	1.33
26	BB	122	G	C5-C4	5.46	1.42	1.38
26	BB	155	A	N1-C2	-5.46	1.29	1.34
26	BB	615	U	C5'-C4'	5.46	1.57	1.51
26	BB	1070	A	N1-C2	-5.46	1.29	1.34
26	BB	1334	G	N7-C5	5.46	1.42	1.39
26	BB	1904	G	O3'-P	5.46	1.67	1.61
26	BB	2446	G	C4'-O4'	-5.46	1.38	1.45
1	AA	974	A	N1-C2	-5.46	1.29	1.34
1	AA	1000	A	C5'-C4'	5.46	1.57	1.51
1	AA	1078	U	O4'-C1'	-5.46	1.34	1.41
2	AB	29	G	N3-C4	5.46	1.39	1.35
26	BB	1122	G	N1-C2	5.46	1.42	1.37
26	BB	1209	U	O5'-C5'	-5.46	1.34	1.42
26	BB	1285	A	N9-C4	5.46	1.41	1.37
26	BB	1412	U	C3'-O3'	5.46	1.49	1.42
26	BB	2003	A	N9-C8	-5.46	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2196	C	C2-N3	5.46	1.40	1.35
26	BB	2694	G	C4'-O4'	-5.46	1.38	1.45
1	AA	582	C	C2-O2	-5.46	1.19	1.24
1	AA	1324	A	N9-C4	-5.46	1.34	1.37
26	BB	2007	U	N1-C6	5.46	1.42	1.38
1	AA	298	A	C6-N1	-5.45	1.31	1.35
1	AA	416	G	C5-C6	5.45	1.47	1.42
1	AA	707	U	C5-C6	5.45	1.39	1.34
1	AA	950	U	C2-N3	5.45	1.41	1.37
1	AA	1050	G	O5'-C5'	-5.45	1.34	1.42
1	AA	1193	G	N3-C4	5.45	1.39	1.35
1	AA	1390	U	O3'-P	5.45	1.67	1.61
25	BA	17	C	C4'-O4'	-5.45	1.38	1.45
26	BB	361	G	C5'-C4'	5.45	1.57	1.51
26	BB	768	G	C4'-O4'	-5.45	1.38	1.45
26	BB	876	C	C3'-C2'	5.45	1.58	1.52
26	BB	1217	U	C4'-O4'	-5.45	1.38	1.45
26	BB	1301	A	N9-C4	5.45	1.41	1.37
26	BB	1362	C	C2-N3	5.45	1.40	1.35
26	BB	1420	A	C4'-O4'	-5.45	1.38	1.45
26	BB	1783	A	C2-N3	5.45	1.38	1.33
26	BB	2198	A	C3'-O3'	5.45	1.49	1.42
31	BG	176	PHE	CB-CG	5.45	1.60	1.51
25	BA	119	A	C3'-C2'	5.45	1.58	1.52
26	BB	447	A	N3-C4	5.45	1.38	1.34
26	BB	1024	G	N9-C8	5.45	1.41	1.37
26	BB	1251	C	P-O5'	-5.45	1.54	1.59
26	BB	2413	G	N9-C8	5.45	1.41	1.37
26	BB	2835	A	C2-N3	-5.45	1.28	1.33
26	BB	2871	U	C2'-C1'	5.45	1.59	1.53
1	AA	260	G	C2-N2	5.45	1.40	1.34
1	AA	299	G	C5-C6	5.45	1.47	1.42
1	AA	494	G	C2-N3	5.45	1.37	1.32
1	AA	626	G	O3'-P	5.45	1.67	1.61
1	AA	802	A	N3-C4	-5.45	1.31	1.34
1	AA	1277	C	C2-N3	5.45	1.40	1.35
1	AA	1504	G	N3-C4	-5.45	1.31	1.35
3	AC	59	A	C6-N6	-5.45	1.29	1.33
26	BB	227	A	N7-C5	-5.45	1.35	1.39
26	BB	265	A	N9-C8	5.45	1.42	1.37
26	BB	937	C	C3'-O3'	5.45	1.49	1.42
26	BB	1286	A	C8-N7	5.45	1.35	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1331	G	N9-C8	5.45	1.41	1.37
26	BB	1651	G	N9-C4	-5.45	1.33	1.38
26	BB	2038	G	C2'-O2'	5.45	1.48	1.41
1	AA	139	A	C3'-C2'	5.45	1.58	1.52
1	AA	319	G	N9-C8	-5.45	1.34	1.37
1	AA	398	U	C2-N3	5.45	1.41	1.37
1	AA	512	U	C5'-C4'	5.45	1.57	1.51
1	AA	680	C	N3-C4	5.45	1.37	1.33
1	AA	920	U	C4'-C3'	5.45	1.59	1.53
1	AA	1072	G	N3-C4	5.45	1.39	1.35
1	AA	1256	A	C4'-C3'	5.45	1.59	1.53
3	AC	46	C	N3-C4	5.45	1.37	1.33
25	BA	80	U	P-O5'	5.45	1.65	1.59
26	BB	245	G	C5-C4	5.45	1.42	1.38
26	BB	302	C	O3'-P	5.45	1.67	1.61
26	BB	1283	G	N9-C8	5.45	1.41	1.37
26	BB	1400	U	C2'-O2'	-5.45	1.34	1.41
26	BB	1499	C	C1'-N1	5.45	1.56	1.48
26	BB	1555	G	N9-C8	-5.45	1.34	1.37
26	BB	2086	U	O4'-C1'	5.45	1.48	1.41
26	BB	2307	G	C8-N7	-5.45	1.27	1.30
1	AA	1067	A	C5-C6	5.45	1.46	1.41
26	BB	1105	U	O3'-P	5.45	1.67	1.61
26	BB	1481	U	N1-C2	5.45	1.43	1.38
26	BB	2032	G	C2-N2	5.45	1.40	1.34
26	BB	2767	C	P-O5'	5.45	1.65	1.59
1	AA	128	G	C6-O6	-5.45	1.19	1.24
1	AA	221	C	C5-C6	5.45	1.38	1.34
4	AD	65	G	C3'-O3'	5.45	1.49	1.42
26	BB	112	U	C2-O2	5.45	1.27	1.22
26	BB	168	G	P-O5'	-5.45	1.54	1.59
26	BB	246	C	O5'-C5'	-5.45	1.34	1.42
26	BB	1023	U	N3-C4	5.45	1.43	1.38
26	BB	1342	A	N9-C8	5.45	1.42	1.37
26	BB	1503	A	C5-C4	-5.45	1.34	1.38
26	BB	1792	G	C6-O6	-5.45	1.19	1.24
26	BB	1949	G	C5-C4	-5.45	1.34	1.38
26	BB	1983	G	N3-C4	5.45	1.39	1.35
26	BB	2118	U	C4-O4	5.45	1.28	1.23
26	BB	2323	G	C8-N7	-5.45	1.27	1.30
26	BB	2375	G	C6-O6	-5.45	1.19	1.24
26	BB	2448	A	C6-N1	-5.45	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	166	U	N1-C2	5.44	1.43	1.38
1	AA	1178	G	N7-C5	5.44	1.42	1.39
26	BB	94	A	C6-N1	-5.44	1.31	1.35
26	BB	408	G	C6-N1	5.44	1.43	1.39
26	BB	652	U	C5-C6	5.44	1.39	1.34
26	BB	2407	A	C4'-O4'	-5.44	1.38	1.45
1	AA	376	G	O3'-P	5.44	1.67	1.61
1	AA	633	G	N3-C4	5.44	1.39	1.35
1	AA	1128	C	P-O5'	5.44	1.65	1.59
1	AA	1303	C	C3'-C2'	5.44	1.58	1.52
26	BB	406	G	C6-N1	5.44	1.43	1.39
26	BB	623	C	N1-C6	5.44	1.40	1.37
26	BB	2875	C	C3'-O3'	5.44	1.49	1.42
1	AA	382	A	C2'-C1'	-5.44	1.47	1.53
1	AA	1016	A	C2'-C1'	5.44	1.59	1.53
1	AA	1037	C	O3'-P	5.44	1.67	1.61
1	AA	1158	C	C5'-C4'	5.44	1.57	1.51
1	AA	1269	A	C3'-O3'	-5.44	1.34	1.42
1	AA	1482	G	C3'-O3'	5.44	1.49	1.42
3	AC	59	A	C5-C6	5.44	1.46	1.41
26	BB	341	C	C4'-C3'	5.44	1.59	1.53
26	BB	642	U	N3-C4	5.44	1.43	1.38
26	BB	1035	U	C2-O2	5.44	1.27	1.22
26	BB	1615	C	N3-C4	5.44	1.37	1.33
26	BB	1969	A	C2'-C1'	5.44	1.59	1.53
26	BB	1979	U	C1'-N1	5.44	1.56	1.48
26	BB	2489	U	C2-O2	5.44	1.27	1.22
26	BB	2820	A	C5-C4	-5.44	1.34	1.38
26	BB	2825	G	N9-C8	-5.44	1.34	1.37
53	B2	49	ARG	NE-CZ	5.44	1.40	1.33
26	BB	53	A	C5'-C4'	5.44	1.57	1.51
26	BB	1072	C	C5-C6	5.44	1.38	1.34
26	BB	2808	G	C4'-O4'	-5.44	1.38	1.45
1	AA	208	U	N1-C2	5.44	1.43	1.38
1	AA	231	U	C4'-O4'	-5.44	1.38	1.45
1	AA	542	G	C5-C4	-5.44	1.34	1.38
25	BA	30	C	N1-C2	5.44	1.45	1.40
26	BB	283	G	C5-C6	5.44	1.47	1.42
26	BB	524	G	C4'-O4'	-5.44	1.38	1.45
26	BB	1256	G	C2-N2	5.44	1.40	1.34
26	BB	2022	U	C5'-C4'	5.44	1.57	1.51
26	BB	907	G	O5'-C5'	-5.44	1.34	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	298	A	N9-C4	-5.43	1.34	1.37
1	AA	355	C	C4'-C3'	-5.43	1.47	1.52
1	AA	521	G	C8-N7	5.43	1.34	1.30
1	AA	1443	C	C2'-C1'	-5.43	1.47	1.53
25	BA	79	G	N9-C8	5.43	1.41	1.37
26	BB	367	G	C5'-C4'	5.43	1.57	1.51
26	BB	463	G	N1-C2	5.43	1.42	1.37
26	BB	596	U	N1-C2	5.43	1.43	1.38
26	BB	695	G	C3'-C2'	5.43	1.58	1.52
26	BB	760	G	C6-O6	-5.43	1.19	1.24
26	BB	896	A	C8-N7	-5.43	1.27	1.31
26	BB	1084	A	N9-C4	-5.43	1.34	1.37
26	BB	1166	G	C2'-O2'	-5.43	1.34	1.41
26	BB	1386	C	C4'-C3'	5.43	1.59	1.53
26	BB	2141	G	C5'-C4'	5.43	1.57	1.51
26	BB	2416	C	N1-C6	5.43	1.40	1.37
26	BB	2443	C	N1-C2	5.43	1.45	1.40
26	BB	2655	G	P-O5'	5.43	1.65	1.59
26	BB	2662	A	C2'-O2'	-5.43	1.34	1.41
26	BB	2665	A	O4'-C1'	5.43	1.48	1.41
26	BB	2680	U	C5-C6	5.43	1.39	1.34
1	AA	376	G	N3-C4	5.43	1.39	1.35
1	AA	749	A	P-O5'	5.43	1.65	1.59
1	AA	1007	U	C2-O2	5.43	1.27	1.22
26	BB	75	G	C2'-O2'	-5.43	1.34	1.41
26	BB	708	G	P-O5'	5.43	1.65	1.59
26	BB	715	A	N1-C2	-5.43	1.29	1.34
26	BB	1894	C	N3-C4	5.43	1.37	1.33
26	BB	1923	U	C2-O2	5.43	1.27	1.22
26	BB	2338	C	N1-C6	5.43	1.40	1.37
1	AA	576	C	C5'-C4'	5.43	1.57	1.51
26	BB	132	G	C4'-O4'	-5.43	1.38	1.45
26	BB	196	A	O4'-C1'	5.43	1.48	1.41
26	BB	1134	A	C6-N1	5.43	1.39	1.35
26	BB	1752	C	C2-N3	5.43	1.40	1.35
26	BB	2227	A	N1-C2	5.43	1.39	1.34
26	BB	2776	A	N1-C2	5.43	1.39	1.34
1	AA	792	A	C2'-O2'	-5.43	1.34	1.41
1	AA	936	C	P-O5'	5.43	1.65	1.59
1	AA	943	U	O4'-C1'	-5.43	1.34	1.41
1	AA	987	G	C8-N7	-5.43	1.27	1.30
5	AE	162	VAL	CB-CG1	5.43	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	278	A	O3'-P	5.43	1.67	1.61
26	BB	464	U	C2-O2	5.43	1.27	1.22
26	BB	687	C	C5'-C4'	5.43	1.57	1.51
26	BB	1240	U	C5-C6	5.43	1.39	1.34
26	BB	2127	G	N1-C2	-5.43	1.33	1.37
26	BB	2721	A	C4'-C3'	-5.43	1.47	1.52
26	BB	2741	A	C4'-C3'	5.43	1.59	1.53
1	AA	665	A	C8-N7	-5.43	1.27	1.31
1	AA	971	G	C4'-O4'	-5.43	1.38	1.45
25	BA	6	G	O3'-P	5.43	1.67	1.61
26	BB	273	G	C6-N1	5.43	1.43	1.39
1	AA	567	G	N7-C5	5.43	1.42	1.39
1	AA	584	G	C5-C4	-5.43	1.34	1.38
1	AA	1308	U	C4'-C3'	5.43	1.59	1.53
1	AA	1515	G	C2-N3	5.43	1.37	1.32
3	AC	24	A	C4'-C3'	5.43	1.59	1.53
25	BA	37	C	C1'-N1	5.43	1.56	1.48
26	BB	193	U	C5-C6	5.43	1.39	1.34
26	BB	1003	G	C2-N2	-5.43	1.29	1.34
26	BB	1147	A	C6-N6	5.43	1.38	1.33
26	BB	1247	A	C5'-C4'	5.43	1.57	1.51
26	BB	1280	G	N9-C4	-5.43	1.33	1.38
26	BB	1396	U	C2-N3	5.43	1.41	1.37
26	BB	1546	G	C6-N1	5.43	1.43	1.39
26	BB	1797	G	C2-N2	5.43	1.40	1.34
1	AA	314	C	C5-C6	-5.42	1.30	1.34
1	AA	958	A	O3'-P	5.42	1.67	1.61
1	AA	1322	C	P-O5'	5.42	1.65	1.59
26	BB	964	C	C5-C6	5.42	1.38	1.34
26	BB	1550	C	N1-C2	5.42	1.45	1.40
26	BB	1622	G	N1-C2	5.42	1.42	1.37
26	BB	1700	A	C5'-C4'	5.42	1.57	1.51
26	BB	1898	U	C4'-O4'	-5.42	1.38	1.45
26	BB	2004	G	C2-N3	5.42	1.37	1.32
1	AA	1273	C	C2-N3	5.42	1.40	1.35
25	BA	82	U	C1'-N1	5.42	1.56	1.48
26	BB	435	C	N3-C4	-5.42	1.30	1.33
26	BB	739	A	C5-C6	5.42	1.46	1.41
26	BB	1707	G	O3'-P	5.42	1.67	1.61
26	BB	2336	A	C5-C6	5.42	1.46	1.41
26	BB	2773	C	N1-C6	-5.42	1.33	1.37
33	BI	146	VAL	CB-CG1	5.42	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	378	G	C6-O6	-5.42	1.19	1.24
1	AA	1109	C	C4-C5	5.42	1.47	1.43
26	BB	23	G	N7-C5	-5.42	1.35	1.39
26	BB	717	C	C2-N3	5.42	1.40	1.35
26	BB	1209	U	C5'-C4'	-5.42	1.44	1.51
26	BB	1563	U	P-O5'	5.42	1.65	1.59
26	BB	1577	C	C2-N3	5.42	1.40	1.35
26	BB	1788	C	N3-C4	5.42	1.37	1.33
26	BB	2037	A	C5-C4	-5.42	1.34	1.38
1	AA	545	C	N1-C2	5.42	1.45	1.40
1	AA	1362	A	C6-N1	-5.42	1.31	1.35
26	BB	446	G	N9-C8	5.42	1.41	1.37
26	BB	2539	C	C4'-C3'	-5.42	1.47	1.52
26	BB	2597	G	C4'-O4'	-5.42	1.38	1.45
41	BQ	44	GLY	N-CA	5.42	1.54	1.46
1	AA	76	G	C4'-O4'	-5.42	1.38	1.45
1	AA	88	U	C3'-O3'	5.42	1.49	1.42
1	AA	282	A	C6-N6	5.42	1.38	1.33
1	AA	891	U	C2-N3	5.42	1.41	1.37
1	AA	1190	G	C5-C4	-5.42	1.34	1.38
4	AD	11	A	P-O5'	5.42	1.65	1.59
26	BB	260	G	C6-O6	-5.42	1.19	1.24
26	BB	347	A	C3'-C2'	5.42	1.58	1.52
26	BB	458	G	C2'-O2'	-5.42	1.34	1.41
26	BB	1465	G	C8-N7	5.42	1.34	1.30
26	BB	2086	U	N3-C4	5.42	1.43	1.38
26	BB	2235	G	O3'-P	5.42	1.67	1.61
26	BB	2341	G	C5-C6	5.42	1.47	1.42
26	BB	2386	A	N7-C5	-5.42	1.35	1.39
26	BB	2430	A	C1'-N9	-5.42	1.39	1.46
26	BB	2444	G	N1-C2	5.42	1.42	1.37
26	BB	2704	C	P-O5'	5.42	1.65	1.59
26	BB	2810	A	C5'-C4'	5.42	1.57	1.51
1	AA	176	C	N1-C2	-5.42	1.34	1.40
24	AX	33	ARG	NE-CZ	5.42	1.40	1.33
26	BB	221	A	N9-C8	-5.42	1.33	1.37
26	BB	273	G	C3'-O3'	5.42	1.49	1.42
26	BB	348	A	N1-C2	-5.42	1.29	1.34
26	BB	1315	C	O4'-C1'	5.42	1.48	1.41
26	BB	1317	G	C5-C4	5.42	1.42	1.38
26	BB	1669	A	N9-C4	5.42	1.41	1.37
26	BB	1855	U	C2-O2	5.42	1.27	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2321	U	C4-C5	5.42	1.48	1.43
26	BB	2779	U	C2-N3	5.42	1.41	1.37
1	AA	246	A	C8-N7	5.42	1.35	1.31
1	AA	607	A	C6-N6	-5.42	1.29	1.33
25	BA	16	G	C5'-C4'	5.42	1.57	1.51
26	BB	1743	G	C2-N3	5.42	1.37	1.32
26	BB	1855	U	N1-C2	5.42	1.43	1.38
1	AA	65	A	O3'-P	-5.41	1.54	1.61
1	AA	224	U	C4-C5	-5.41	1.38	1.43
1	AA	651	C	C4'-O4'	-5.41	1.38	1.45
1	AA	800	G	N3-C4	-5.41	1.31	1.35
1	AA	1222	G	C6-N1	5.41	1.43	1.39
1	AA	1360	A	N7-C5	-5.41	1.36	1.39
1	AA	1470	U	P-O5'	5.41	1.65	1.59
26	BB	146	A	N1-C2	-5.41	1.29	1.34
26	BB	778	G	C2'-C1'	5.41	1.59	1.53
26	BB	1702	G	C2-N3	5.41	1.37	1.32
26	BB	2853	C	C5-C6	5.41	1.38	1.34
1	AA	760	G	N7-C5	5.41	1.42	1.39
1	AA	1237	C	C5-C6	5.41	1.38	1.34
26	BB	406	G	O4'-C1'	5.41	1.48	1.41
26	BB	526	A	O3'-P	5.41	1.67	1.61
26	BB	664	G	N3-C4	5.41	1.39	1.35
26	BB	774	G	C4'-O4'	-5.41	1.38	1.45
38	BN	114	GLY	CA-C	5.41	1.60	1.51
1	AA	8	A	O5'-C5'	-5.41	1.34	1.42
2	AB	28	C	C2-N3	5.41	1.40	1.35
26	BB	217	A	N1-C2	-5.41	1.29	1.34
26	BB	553	G	C3'-C2'	-5.41	1.46	1.52
26	BB	737	C	N3-C4	-5.41	1.30	1.33
26	BB	1511	G	N1-C2	5.41	1.42	1.37
26	BB	1652	A	P-O5'	5.41	1.65	1.59
1	AA	491	G	C5-C6	5.41	1.47	1.42
1	AA	645	G	N3-C4	5.41	1.39	1.35
1	AA	823	C	C2-N3	5.41	1.40	1.35
1	AA	898	G	N3-C4	5.41	1.39	1.35
26	BB	242	G	P-O5'	5.41	1.65	1.59
26	BB	519	U	C5-C6	5.41	1.39	1.34
26	BB	531	C	C4-N4	5.41	1.38	1.33
26	BB	669	G	N3-C4	5.41	1.39	1.35
26	BB	1072	C	N1-C2	5.41	1.45	1.40
26	BB	1278	C	O4'-C1'	5.41	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1444	G	N1-C2	5.41	1.42	1.37
26	BB	1861	G	N9-C4	-5.41	1.33	1.38
1	AA	1461	G	C5-C4	5.41	1.42	1.38
25	BA	59	A	C5-C6	5.41	1.46	1.41
26	BB	2624	G	C5-C6	5.41	1.47	1.42
1	AA	108	G	N9-C8	5.41	1.41	1.37
1	AA	482	A	N3-C4	5.41	1.38	1.34
1	AA	608	A	C8-N7	-5.41	1.27	1.31
1	AA	979	C	C2-N3	5.41	1.40	1.35
4	AD	38	A	N3-C4	5.41	1.38	1.34
5	AE	34	ARG	CZ-NH2	5.41	1.40	1.33
26	BB	60	G	P-O5'	5.41	1.65	1.59
26	BB	863	A	C3'-C2'	5.41	1.58	1.52
26	BB	1042	G	P-O5'	5.41	1.65	1.59
26	BB	1062	G	O3'-P	-5.41	1.54	1.61
26	BB	1313	U	C2'-O2'	-5.41	1.34	1.41
26	BB	1586	A	C3'-C2'	5.41	1.58	1.52
26	BB	1950	G	C5'-C4'	5.41	1.57	1.51
26	BB	2363	G	C3'-C2'	5.41	1.58	1.52
26	BB	2377	A	P-O5'	5.41	1.65	1.59
1	AA	1068	G	C4'-C3'	5.40	1.59	1.53
4	AD	49	C	C3'-C2'	5.40	1.58	1.52
26	BB	196	A	C4'-O4'	-5.40	1.38	1.45
26	BB	858	G	C4'-C3'	5.40	1.59	1.53
1	AA	1429	A	N7-C5	-5.40	1.36	1.39
26	BB	27	G	C8-N7	-5.40	1.27	1.30
26	BB	52	A	C5'-C4'	5.40	1.57	1.51
26	BB	265	A	N3-C4	-5.40	1.31	1.34
26	BB	307	G	N3-C4	-5.40	1.31	1.35
26	BB	1847	A	P-O5'	5.40	1.65	1.59
26	BB	2865	U	N1-C6	5.40	1.42	1.38
1	AA	501	C	N1-C6	5.40	1.40	1.37
1	AA	539	A	C5-C6	5.40	1.46	1.41
1	AA	1244	G	O4'-C1'	5.40	1.48	1.41
26	BB	262	A	C3'-C2'	-5.40	1.46	1.52
26	BB	750	A	C6-N1	-5.40	1.31	1.35
26	BB	800	A	C8-N7	5.40	1.35	1.31
26	BB	904	G	C5-C6	5.40	1.47	1.42
26	BB	1430	G	C4'-C3'	5.40	1.59	1.53
26	BB	1897	G	C4'-O4'	-5.40	1.38	1.45
26	BB	2248	C	N3-C4	5.40	1.37	1.33
26	BB	2431	U	C5'-C4'	5.40	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2600	A	C3'-C2'	5.40	1.58	1.52
43	BS	52	ARG	CZ-NH2	5.40	1.40	1.33
1	AA	39	G	C2-N3	5.40	1.37	1.32
1	AA	796	C	O4'-C1'	5.40	1.48	1.41
1	AA	996	A	C2'-O2'	5.40	1.48	1.41
1	AA	1084	G	C2-N3	5.40	1.37	1.32
1	AA	1459	G	C2-N3	5.40	1.37	1.32
2	AB	44	G	C2-N3	5.40	1.37	1.32
26	BB	369	U	N1-C6	5.40	1.42	1.38
26	BB	2052	A	C2-N3	5.40	1.38	1.33
26	BB	2702	G	C2-N3	5.40	1.37	1.32
1	AA	33	A	N9-C4	5.40	1.41	1.37
1	AA	45	G	N7-C5	5.40	1.42	1.39
1	AA	1173	U	C5-C6	5.40	1.39	1.34
1	AA	1200	C	N1-C2	-5.40	1.34	1.40
1	AA	1227	A	C2-N3	5.40	1.38	1.33
26	BB	836	G	N3-C4	5.40	1.39	1.35
26	BB	843	G	O3'-P	5.40	1.67	1.61
26	BB	2059	A	C2'-C1'	5.40	1.59	1.53
26	BB	2071	A	N9-C4	5.40	1.41	1.37
1	AA	1191	A	C3'-C2'	5.40	1.58	1.52
1	AA	1497	G	C5-C6	-5.40	1.36	1.42
26	BB	67	U	C4'-O4'	-5.40	1.38	1.45
26	BB	474	G	C6-O6	-5.40	1.19	1.24
26	BB	1048	A	C2'-C1'	5.40	1.59	1.53
1	AA	508	U	C4-C5	5.39	1.48	1.43
1	AA	705	G	C5-C4	5.39	1.42	1.38
1	AA	731	G	N9-C8	5.39	1.41	1.37
1	AA	956	U	C4'-C3'	-5.39	1.47	1.52
1	AA	1030	U	C4-C5	5.39	1.48	1.43
1	AA	1293	C	P-O5'	5.39	1.65	1.59
1	AA	1310	G	C4'-O4'	-5.39	1.38	1.45
26	BB	573	U	C5-C6	5.39	1.39	1.34
26	BB	682	G	C5-C6	5.39	1.47	1.42
26	BB	783	A	P-O5'	5.39	1.65	1.59
26	BB	1624	U	C2-N3	5.39	1.41	1.37
26	BB	1856	U	C4-C5	5.39	1.48	1.43
32	BH	93	TYR	CE2-CZ	5.39	1.45	1.38
1	AA	492	C	C4-N4	5.39	1.38	1.33
1	AA	685	G	O3'-P	5.39	1.67	1.61
1	AA	951	G	N7-C5	5.39	1.42	1.39
1	AA	1014	A	C6-N6	5.39	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	60	U	C4-O4	-5.39	1.19	1.23
26	BB	198	C	C4'-C3'	5.39	1.59	1.53
26	BB	847	U	C2-O2	5.39	1.27	1.22
26	BB	1029	A	C2'-O2'	5.39	1.48	1.41
26	BB	1157	G	N7-C5	-5.39	1.36	1.39
26	BB	2185	U	C2-N3	5.39	1.41	1.37
26	BB	2374	C	C2-N3	5.39	1.40	1.35
28	BD	170	TYR	CE2-CZ	5.39	1.45	1.38
1	AA	660	C	C2-N3	5.39	1.40	1.35
1	AA	1098	C	C4-C5	5.39	1.47	1.43
26	BB	281	C	C4-C5	5.39	1.47	1.43
26	BB	467	G	N9-C8	5.39	1.41	1.37
26	BB	1093	G	C4'-O4'	-5.39	1.38	1.45
1	AA	59	A	N1-C2	-5.39	1.29	1.34
1	AA	71	A	N3-C4	5.39	1.38	1.34
1	AA	217	C	N1-C6	5.39	1.40	1.37
1	AA	1360	A	P-O5'	5.39	1.65	1.59
12	AL	6	TYR	CE1-CZ	5.39	1.45	1.38
25	BA	21	G	N1-C2	5.39	1.42	1.37
25	BA	57	A	C5-C4	5.39	1.42	1.38
26	BB	1469	A	C5-C6	5.39	1.46	1.41
26	BB	1577	C	P-O5'	5.39	1.65	1.59
27	BC	91	GLY	N-CA	-5.39	1.38	1.46
1	AA	259	G	C8-N7	5.39	1.34	1.30
26	BB	1	G	C2'-C1'	5.39	1.59	1.53
26	BB	820	A	N9-C4	-5.39	1.34	1.37
26	BB	2011	U	C4-C5	5.39	1.48	1.43
26	BB	2412	A	C5-C6	5.39	1.45	1.41
1	AA	425	G	C5-C6	5.39	1.47	1.42
1	AA	528	C	C5-C6	5.39	1.38	1.34
1	AA	793	U	C5-C6	5.39	1.39	1.34
1	AA	1481	U	C3'-C2'	-5.39	1.46	1.52
1	AA	1539	C	P-O5'	5.39	1.65	1.59
26	BB	804	A	C4'-C3'	5.39	1.59	1.53
26	BB	1571	A	C3'-C2'	-5.39	1.46	1.52
26	BB	1610	A	C8-N7	-5.39	1.27	1.31
26	BB	1888	G	C3'-O3'	5.39	1.49	1.42
26	BB	2154	A	C5-C4	-5.39	1.34	1.38
26	BB	2436	G	C6-N1	5.39	1.43	1.39
26	BB	2496	C	N3-C4	5.39	1.37	1.33
26	BB	2694	G	C6-O6	-5.39	1.19	1.24
1	AA	53	A	C5-C6	-5.38	1.36	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	436	C	P-O5'	5.38	1.65	1.59
1	AA	536	C	O3'-P	-5.38	1.54	1.61
1	AA	1048	G	N3-C4	5.38	1.39	1.35
1	AA	1153	G	C1'-N9	5.38	1.56	1.48
26	BB	36	G	C6-N1	5.38	1.43	1.39
26	BB	725	G	P-O5'	5.38	1.65	1.59
26	BB	962	G	C4'-O4'	-5.38	1.38	1.45
26	BB	1383	A	C8-N7	5.38	1.35	1.31
26	BB	1431	A	C4'-O4'	-5.38	1.38	1.45
26	BB	1553	A	C3'-C2'	-5.38	1.46	1.52
26	BB	1646	C	C5-C6	5.38	1.38	1.34
26	BB	2053	G	N3-C4	5.38	1.39	1.35
26	BB	2188	U	C5-C6	-5.38	1.29	1.34
26	BB	2436	G	N7-C5	-5.38	1.36	1.39
1	AA	1458	G	N9-C8	-5.38	1.34	1.37
26	BB	981	A	O3'-P	5.38	1.67	1.61
1	AA	335	C	C2'-O2'	-5.38	1.34	1.41
1	AA	783	C	C3'-C2'	5.38	1.58	1.52
1	AA	933	G	C6-N1	-5.38	1.35	1.39
1	AA	1299	A	C4'-O4'	-5.38	1.38	1.45
1	AA	1503	A	C3'-C2'	5.38	1.58	1.52
4	AD	29	C	C2-N3	5.38	1.40	1.35
25	BA	29	A	N9-C4	-5.38	1.34	1.37
26	BB	16	C	C5-C6	5.38	1.38	1.34
26	BB	129	C	O4'-C1'	5.38	1.48	1.41
26	BB	687	C	N1-C6	5.38	1.40	1.37
26	BB	700	G	N1-C2	5.38	1.42	1.37
26	BB	797	G	N9-C8	-5.38	1.34	1.37
26	BB	809	G	N9-C8	-5.38	1.34	1.37
26	BB	1118	C	N1-C2	5.38	1.45	1.40
26	BB	1394	U	C2-N3	5.38	1.41	1.37
26	BB	1572	A	C8-N7	-5.38	1.27	1.31
26	BB	2469	A	C5-C4	-5.38	1.34	1.38
26	BB	2	G	N1-C2	5.38	1.42	1.37
26	BB	1087	G	C8-N7	-5.38	1.27	1.30
26	BB	1836	C	N1-C2	5.38	1.45	1.40
1	AA	7	A	C5-C6	5.38	1.45	1.41
1	AA	577	G	O3'-P	5.38	1.67	1.61
1	AA	993	G	C5-C4	-5.38	1.34	1.38
1	AA	1521	C	C4-N4	-5.38	1.29	1.33
25	BA	100	G	C6-O6	5.38	1.28	1.24
26	BB	851	C	N3-C4	5.38	1.37	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1608	A	C4'-C3'	5.38	1.59	1.53
26	BB	1842	G	C4'-C3'	-5.38	1.47	1.52
26	BB	2341	G	C4'-O4'	-5.38	1.38	1.45
1	AA	183	C	C2'-O2'	5.38	1.48	1.41
1	AA	286	C	C4'-O4'	-5.38	1.38	1.45
1	AA	980	C	N3-C4	5.38	1.37	1.33
1	AA	1217	C	C2-O2	-5.38	1.19	1.24
1	AA	1247	U	C2'-O2'	5.38	1.48	1.41
26	BB	302	C	C1'-N1	5.38	1.56	1.48
26	BB	2083	G	C5'-C4'	5.38	1.57	1.51
26	BB	2140	G	C5'-C4'	5.38	1.57	1.51
26	BB	2677	G	O3'-P	5.38	1.67	1.61
26	BB	2719	G	C4'-C3'	-5.38	1.47	1.52
26	BB	83	A	C6-N1	5.38	1.39	1.35
26	BB	1947	C	O3'-P	-5.38	1.54	1.61
1	AA	722	G	P-O5'	5.37	1.65	1.59
26	BB	339	U	C2-O2	5.37	1.27	1.22
26	BB	798	G	C6-O6	-5.37	1.19	1.24
26	BB	820	A	N1-C2	-5.37	1.29	1.34
26	BB	2499	C	C5-C6	5.37	1.38	1.34
26	BB	2548	U	N3-C4	5.37	1.43	1.38
26	BB	2892	G	C4'-O4'	-5.37	1.38	1.45
1	AA	343	U	C5'-C4'	5.37	1.57	1.51
1	AA	374	A	N9-C4	5.37	1.41	1.37
1	AA	537	G	C6-O6	-5.37	1.19	1.24
1	AA	1132	C	N1-C6	5.37	1.40	1.37
9	AI	78	PHE	CG-CD1	5.37	1.46	1.38
26	BB	101	A	P-O5'	5.37	1.65	1.59
26	BB	1249	U	O3'-P	5.37	1.67	1.61
26	BB	1334	G	N1-C2	5.37	1.42	1.37
26	BB	1912	A	O3'-P	-5.37	1.54	1.61
1	AA	1507	A	P-O5'	5.37	1.65	1.59
25	BA	15	A	N7-C5	-5.37	1.36	1.39
26	BB	809	G	C6-O6	-5.37	1.19	1.24
26	BB	1189	A	C6-N1	-5.37	1.31	1.35
26	BB	1537	G	C5-C4	5.37	1.42	1.38
26	BB	2853	C	N1-C6	5.37	1.40	1.37
1	AA	821	G	N9-C8	5.37	1.41	1.37
1	AA	1062	U	N1-C2	5.37	1.43	1.38
4	AD	20	G	N7-C5	5.37	1.42	1.39
26	BB	288	U	C4-C5	-5.37	1.38	1.43
26	BB	433	C	N1-C2	5.37	1.45	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1171	G	C2-N2	5.37	1.40	1.34
26	BB	1210	G	C2-N3	5.37	1.37	1.32
26	BB	1864	U	N1-C2	5.37	1.43	1.38
26	BB	1889	A	C8-N7	-5.37	1.27	1.31
26	BB	2057	G	O4'-C1'	-5.37	1.34	1.41
26	BB	2391	G	C6-N1	5.37	1.43	1.39
26	BB	2576	G	C5-C4	5.37	1.42	1.38
26	BB	2780	G	C2-N3	5.37	1.37	1.32
26	BB	2830	C	P-O5'	5.37	1.65	1.59
1	AA	882	C	N1-C6	-5.37	1.33	1.37
1	AA	1345	U	N1-C6	-5.37	1.33	1.38
4	AD	2	G	O4'-C1'	5.37	1.48	1.41
26	BB	66	C	C4'-C3'	-5.37	1.47	1.52
26	BB	1286	A	C5'-C4'	5.37	1.57	1.51
26	BB	1590	A	N9-C8	5.37	1.42	1.37
26	BB	2491	U	C3'-C2'	5.37	1.58	1.52
26	BB	2791	G	C5-C4	5.37	1.42	1.38
1	AA	490	C	O4'-C1'	-5.37	1.34	1.41
1	AA	954	G	C4'-C3'	5.37	1.59	1.53
26	BB	1601	G	C4'-O4'	-5.37	1.38	1.45
26	BB	2377	A	N7-C5	5.37	1.42	1.39
26	BB	2563	U	C4-O4	5.37	1.27	1.23
26	BB	2566	A	N9-C4	5.37	1.41	1.37
1	AA	168	G	C5'-C4'	5.36	1.57	1.51
1	AA	1019	A	N9-C4	-5.36	1.34	1.37
1	AA	1214	C	P-O5'	5.36	1.65	1.59
17	AQ	62	ARG	CZ-NH1	5.36	1.40	1.33
26	BB	833	A	N3-C4	5.36	1.38	1.34
26	BB	956	G	C8-N7	-5.36	1.27	1.30
26	BB	1346	G	N1-C2	5.36	1.42	1.37
26	BB	2519	U	C4-C5	5.36	1.48	1.43
26	BB	2542	A	C2-N3	5.36	1.38	1.33
26	BB	2798	U	O4'-C1'	5.36	1.48	1.41
1	AA	1116	U	C2'-O2'	5.36	1.48	1.41
1	AA	1326	U	N1-C2	5.36	1.43	1.38
26	BB	1175	A	C3'-O3'	-5.36	1.34	1.42
26	BB	2804	U	N1-C2	5.36	1.43	1.38
1	AA	643	C	C5-C6	5.36	1.38	1.34
1	AA	644	U	C4-O4	5.36	1.27	1.23
1	AA	738	C	P-O5'	5.36	1.65	1.59
1	AA	1332	A	O4'-C1'	5.36	1.48	1.41
2	AB	1	A	C6-N6	5.36	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AD	76	C	P-O5'	5.36	1.65	1.59
22	AV	34	SER	CA-CB	5.36	1.60	1.52
26	BB	299	A	N7-C5	5.36	1.42	1.39
26	BB	629	G	N3-C4	-5.36	1.31	1.35
26	BB	1142	A	C4'-C3'	5.36	1.59	1.53
26	BB	1488	C	C2-N3	5.36	1.40	1.35
1	AA	405	U	N1-C2	5.36	1.43	1.38
1	AA	531	U	C5'-C4'	5.36	1.57	1.51
1	AA	911	U	C1'-N1	5.36	1.56	1.48
26	BB	27	G	N9-C4	-5.36	1.33	1.38
26	BB	115	C	C3'-C2'	5.36	1.58	1.52
26	BB	538	A	C8-N7	-5.36	1.27	1.31
26	BB	996	A	N9-C4	-5.36	1.34	1.37
26	BB	2847	U	C2-N3	5.36	1.41	1.37
1	AA	395	C	O3'-P	5.36	1.67	1.61
1	AA	1006	G	C8-N7	5.36	1.34	1.30
1	AA	1070	U	P-O5'	-5.36	1.54	1.59
1	AA	1180	A	C5'-C4'	5.36	1.57	1.51
26	BB	184	C	C4'-C3'	-5.36	1.47	1.52
26	BB	712	G	C2-N3	5.36	1.37	1.32
26	BB	906	U	C4'-O4'	-5.36	1.38	1.45
26	BB	1381	G	C2'-O2'	-5.36	1.34	1.41
26	BB	1526	C	N1-C6	5.36	1.40	1.37
26	BB	2380	C	C4-N4	5.36	1.38	1.33
26	BB	2640	G	N7-C5	-5.36	1.36	1.39
26	BB	2674	G	P-O5'	-5.36	1.54	1.59
1	AA	126	G	N1-C2	5.36	1.42	1.37
4	AD	38	A	C5-C4	-5.36	1.35	1.38
26	BB	576	U	N1-C6	5.36	1.42	1.38
26	BB	733	G	C5-C4	-5.36	1.34	1.38
26	BB	1095	A	N7-C5	5.36	1.42	1.39
26	BB	1395	A	C2'-O2'	5.36	1.48	1.41
26	BB	2353	G	P-O5'	5.36	1.65	1.59
30	BF	122	GLU	CD-OE1	-5.36	1.19	1.25
1	AA	1060	U	P-O5'	5.35	1.65	1.59
1	AA	1317	C	N1-C6	5.35	1.40	1.37
2	AB	56	C	N1-C6	-5.35	1.33	1.37
11	AK	14	ARG	CD-NE	5.35	1.55	1.46
26	BB	1559	U	N1-C2	5.35	1.43	1.38
1	AA	12	U	C4-C5	5.35	1.48	1.43
1	AA	115	G	C5'-C4'	5.35	1.57	1.51
1	AA	198	G	N7-C5	5.35	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	230	G	C5'-C4'	5.35	1.57	1.51
1	AA	313	A	N9-C4	5.35	1.41	1.37
1	AA	461	A	N9-C4	5.35	1.41	1.37
1	AA	1392	G	C5'-C4'	5.35	1.57	1.51
1	AA	1542	A	C5-C6	-5.35	1.36	1.41
2	AB	31	U	N1-C2	5.35	1.43	1.38
26	BB	394	C	O3'-P	5.35	1.67	1.61
26	BB	1212	G	C5-C4	-5.35	1.34	1.38
26	BB	1489	C	O4'-C1'	-5.35	1.34	1.41
26	BB	2632	A	N9-C8	5.35	1.42	1.37
26	BB	2789	C	N1-C6	5.35	1.40	1.37
42	BR	82	SER	CB-OG	-5.35	1.35	1.42
1	AA	916	U	C4-C5	5.35	1.48	1.43
1	AA	1001	C	N1-C6	5.35	1.40	1.37
1	AA	1171	A	N1-C2	-5.35	1.29	1.34
26	BB	422	A	C2'-O2'	5.35	1.48	1.41
26	BB	425	G	N9-C8	5.35	1.41	1.37
26	BB	717	C	C2'-C1'	-5.35	1.47	1.53
26	BB	2753	A	C4'-O4'	-5.35	1.38	1.45
38	BN	44	GLY	CA-C	5.35	1.60	1.51
1	AA	608	A	C4'-O4'	-5.35	1.38	1.45
1	AA	811	C	C2-O2	-5.35	1.19	1.24
1	AA	1154	G	N3-C4	5.35	1.39	1.35
1	AA	1182	G	N3-C4	5.35	1.39	1.35
26	BB	604	G	P-O5'	5.35	1.65	1.59
26	BB	662	G	C6-N1	5.35	1.43	1.39
26	BB	697	G	C6-N1	5.35	1.43	1.39
26	BB	1466	U	C5'-C4'	5.35	1.57	1.51
26	BB	2205	A	N7-C5	-5.35	1.36	1.39
28	BD	195	GLY	CA-C	5.35	1.60	1.51
1	AA	146	G	C4'-O4'	-5.35	1.38	1.45
1	AA	443	C	C3'-C2'	-5.35	1.46	1.52
1	AA	529	G	C4'-C3'	5.35	1.59	1.53
3	AC	50	U	O3'-P	5.35	1.67	1.61
4	AD	24	C	N1-C6	5.35	1.40	1.37
26	BB	230	G	N7-C5	5.35	1.42	1.39
26	BB	269	C	C5-C6	5.35	1.38	1.34
26	BB	423	A	C5-C4	-5.35	1.35	1.38
26	BB	625	G	C5'-C4'	5.35	1.57	1.51
26	BB	882	G	C2-N2	5.35	1.39	1.34
26	BB	899	A	N9-C4	-5.35	1.34	1.37
26	BB	914	G	P-O5'	5.35	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1967	C	P-O5'	5.35	1.65	1.59
26	BB	2034	U	C4'-O4'	-5.35	1.38	1.45
26	BB	2455	G	C2-N2	5.35	1.39	1.34
26	BB	2487	G	P-O5'	5.35	1.65	1.59
26	BB	2534	A	N9-C8	-5.35	1.33	1.37
26	BB	2657	A	C5-C4	-5.35	1.35	1.38
26	BB	2758	A	C6-N1	5.35	1.39	1.35
26	BB	2798	U	P-O5'	5.35	1.65	1.59
1	AA	72	A	C4'-O4'	-5.35	1.38	1.45
1	AA	1061	G	C2'-C1'	5.35	1.59	1.53
1	AA	1245	C	O4'-C1'	5.35	1.48	1.41
2	AB	62	U	P-O5'	-5.35	1.54	1.59
26	BB	1699	G	C6-O6	-5.35	1.19	1.24
26	BB	2106	U	C3'-C2'	5.35	1.58	1.52
26	BB	2148	G	C5'-C4'	5.35	1.57	1.51
1	AA	165	G	O3'-P	5.34	1.67	1.61
1	AA	427	U	C5-C6	5.34	1.39	1.34
1	AA	1525	G	C5-C6	5.34	1.47	1.42
26	BB	944	C	C4-C5	5.34	1.47	1.43
26	BB	1299	G	N3-C4	5.34	1.39	1.35
26	BB	1472	C	N1-C6	5.34	1.40	1.37
26	BB	1999	C	C4'-C3'	-5.34	1.47	1.52
26	BB	2304	G	P-O5'	5.34	1.65	1.59
26	BB	2891	U	P-O5'	5.34	1.65	1.59
1	AA	1370	G	N3-C4	5.34	1.39	1.35
26	BB	383	C	C2-N3	5.34	1.40	1.35
26	BB	1879	C	C5-C6	5.34	1.38	1.34
26	BB	2276	G	N3-C4	5.34	1.39	1.35
1	AA	362	G	N9-C8	5.34	1.41	1.37
1	AA	575	G	C3'-C2'	5.34	1.58	1.52
1	AA	947	G	C6-O6	-5.34	1.19	1.24
1	AA	1023	U	N1-C2	5.34	1.43	1.38
4	AD	56	PSU	O3'-P	-5.34	1.54	1.61
26	BB	12	U	C4'-O4'	-5.34	1.38	1.45
26	BB	465	G	C5'-C4'	5.34	1.57	1.51
26	BB	815	C	C5-C6	5.34	1.38	1.34
26	BB	1679	A	P-O5'	5.34	1.65	1.59
26	BB	2217	G	N7-C5	-5.34	1.36	1.39
1	AA	145	G	C2-N2	5.34	1.39	1.34
1	AA	595	A	O3'-P	5.34	1.67	1.61
1	AA	973	G	C5-C4	-5.34	1.34	1.38
26	BB	591	U	C2-N3	5.34	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1575	C	C3'-C2'	-5.34	1.46	1.52
26	BB	1673	G	N3-C4	5.34	1.39	1.35
26	BB	2193	G	O3'-P	-5.34	1.54	1.61
26	BB	2896	C	O3'-P	-5.34	1.54	1.61
1	AA	167	A	C6-N6	5.34	1.38	1.33
1	AA	553	A	P-O5'	5.34	1.65	1.59
1	AA	1179	A	N9-C8	-5.34	1.33	1.37
1	AA	1210	C	C4'-C3'	5.34	1.59	1.53
1	AA	475	C	P-O5'	5.34	1.65	1.59
26	BB	115	C	C5'-C4'	5.34	1.57	1.51
26	BB	143	C	C2-O2	-5.34	1.19	1.24
26	BB	497	A	C2'-C1'	-5.34	1.47	1.53
26	BB	960	A	C5'-C4'	5.34	1.57	1.51
26	BB	1153	C	N1-C6	-5.34	1.33	1.37
26	BB	2159	G	C2'-C1'	5.34	1.59	1.53
30	BF	21	ARG	CD-NE	5.34	1.55	1.46
1	AA	870	U	C2-O2	5.33	1.27	1.22
1	AA	1138	G	C8-N7	-5.33	1.27	1.30
8	AH	67	ARG	CZ-NH1	5.33	1.40	1.33
26	BB	967	U	N1-C2	5.33	1.43	1.38
26	BB	1034	G	N9-C8	-5.33	1.34	1.37
26	BB	1638	C	C4-N4	5.33	1.38	1.33
26	BB	1991	U	C2'-O2'	5.33	1.48	1.41
26	BB	2260	C	C4-N4	5.33	1.38	1.33
44	BT	83	TYR	CG-CD2	5.33	1.46	1.39
1	AA	405	U	O3'-P	-5.33	1.54	1.61
1	AA	583	A	N9-C4	5.33	1.41	1.37
1	AA	1268	G	C2-N2	-5.33	1.29	1.34
3	AC	14	G	C6-O6	-5.33	1.19	1.24
25	BA	96	G	C4'-O4'	-5.33	1.38	1.45
26	BB	234	U	C2'-C1'	-5.33	1.47	1.53
26	BB	398	C	O5'-C5'	-5.33	1.34	1.42
26	BB	483	A	N9-C8	-5.33	1.33	1.37
26	BB	594	U	C4-C5	5.33	1.48	1.43
26	BB	1535	A	N9-C8	5.33	1.42	1.37
26	BB	1916	A	C3'-C2'	5.33	1.58	1.52
26	BB	2467	C	C2-N3	5.33	1.40	1.35
26	BB	2665	A	N1-C2	-5.33	1.29	1.34
26	BB	2698	U	C5-C6	5.33	1.39	1.34
45	BU	25	ARG	NE-CZ	5.33	1.40	1.33
1	AA	338	A	N3-C4	5.33	1.38	1.34
1	AA	444	G	P-O5'	5.33	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	860	A	N9-C4	5.33	1.41	1.37
4	AD	77	A	N9-C4	-5.33	1.34	1.37
4	AD	77	A	P-O5'	5.33	1.65	1.59
13	AM	65	TYR	CE2-CZ	5.33	1.45	1.38
25	BA	51	G	P-O5'	-5.33	1.54	1.59
26	BB	92	U	P-O5'	5.33	1.65	1.59
26	BB	1275	A	C4'-O4'	-5.33	1.38	1.45
26	BB	1983	G	N9-C8	5.33	1.41	1.37
26	BB	2489	U	C2-N3	5.33	1.41	1.37
26	BB	2613	U	C5'-C4'	5.33	1.57	1.51
26	BB	2825	G	C5-C4	5.33	1.42	1.38
1	AA	504	C	C2'-C1'	-5.33	1.47	1.53
26	BB	214	G	C5'-C4'	5.33	1.57	1.51
26	BB	931	U	C5'-C4'	5.33	1.57	1.51
26	BB	2362	C	C2'-C1'	5.33	1.59	1.53
26	BB	2526	G	C6-O6	-5.33	1.19	1.24
26	BB	2894	G	C3'-C2'	5.33	1.58	1.52
1	AA	194	C	C5'-C4'	5.33	1.57	1.51
1	AA	225	C	N3-C4	5.33	1.37	1.33
1	AA	398	U	N3-C4	5.33	1.43	1.38
2	AB	65	C	C5-C6	5.33	1.38	1.34
25	BA	93	C	C2-O2	-5.33	1.19	1.24
26	BB	40	U	C4-C5	5.33	1.48	1.43
26	BB	326	G	P-O5'	5.33	1.65	1.59
26	BB	2407	A	C6-N6	5.33	1.38	1.33
26	BB	2492	U	N1-C2	5.33	1.43	1.38
1	AA	62	U	C5-C6	5.33	1.39	1.34
1	AA	236	A	C8-N7	5.33	1.35	1.31
1	AA	692	U	C2-N3	5.33	1.41	1.37
26	BB	1077	A	N3-C4	5.33	1.38	1.34
1	AA	183	C	C5-C6	5.33	1.38	1.34
1	AA	449	G	C8-N7	-5.33	1.27	1.30
1	AA	805	C	C4-N4	5.33	1.38	1.33
1	AA	832	G	C4'-O4'	-5.33	1.38	1.45
1	AA	934	C	C5-C6	5.33	1.38	1.34
1	AA	1237	C	N1-C6	5.33	1.40	1.37
2	AB	30	G	C3'-C2'	5.33	1.58	1.52
25	BA	41	G	N7-C5	-5.33	1.36	1.39
25	BA	68	C	C4'-C3'	-5.33	1.47	1.52
26	BB	887	U	P-O5'	5.33	1.65	1.59
26	BB	1250	G	N7-C5	-5.33	1.36	1.39
1	AA	90	C	O3'-P	-5.32	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	511	C	N1-C6	5.32	1.40	1.37
1	AA	586	C	C3'-O3'	5.32	1.49	1.42
1	AA	780	A	C8-N7	5.32	1.35	1.31
1	AA	1192	C	C3'-C2'	5.32	1.58	1.52
1	AA	1196	A	C4'-O4'	-5.32	1.38	1.45
1	AA	1255	G	C2-N2	-5.32	1.29	1.34
25	BA	86	G	N1-C2	5.32	1.42	1.37
25	BA	112	G	C5-C4	-5.32	1.34	1.38
26	BB	52	A	C3'-O3'	5.32	1.49	1.42
26	BB	420	C	P-O5'	5.32	1.65	1.59
26	BB	836	G	N9-C8	-5.32	1.34	1.37
26	BB	1077	A	C5-C6	5.32	1.45	1.41
26	BB	1384	A	C2-N3	-5.32	1.28	1.33
26	BB	1429	G	C4'-O4'	-5.32	1.38	1.45
26	BB	1661	G	N9-C8	5.32	1.41	1.37
26	BB	1870	C	N3-C4	-5.32	1.30	1.33
26	BB	1887	C	O3'-P	-5.32	1.54	1.61
26	BB	2008	C	P-O5'	5.32	1.65	1.59
1	AA	1273	C	O4'-C1'	5.32	1.48	1.41
7	AG	64	TYR	CG-CD1	5.32	1.46	1.39
26	BB	1303	G	P-O5'	5.32	1.65	1.59
1	AA	49	U	C2-N3	-5.32	1.34	1.37
1	AA	308	C	C5'-C4'	-5.32	1.45	1.51
1	AA	1441	A	N3-C4	5.32	1.38	1.34
26	BB	66	C	N1-C6	5.32	1.40	1.37
26	BB	122	G	C2-N3	5.32	1.37	1.32
26	BB	267	C	C1'-N1	5.32	1.56	1.48
26	BB	287	G	C5-C4	-5.32	1.34	1.38
26	BB	435	C	C5'-C4'	5.32	1.57	1.51
26	BB	1809	A	C5-C4	5.32	1.42	1.38
26	BB	1986	C	N1-C2	5.32	1.45	1.40
26	BB	2062	A	C6-N6	-5.32	1.29	1.33
1	AA	620	C	O3'-P	-5.32	1.54	1.61
26	BB	117	G	P-O5'	5.32	1.65	1.59
26	BB	961	C	C4'-C3'	5.32	1.59	1.53
26	BB	1244	A	N3-C4	5.32	1.38	1.34
26	BB	2303	G	N7-C5	-5.32	1.36	1.39
26	BB	2372	U	N1-C6	5.32	1.42	1.38
1	AA	1387	G	C2-N2	-5.32	1.29	1.34
25	BA	75	G	C2'-C1'	5.32	1.59	1.53
26	BB	312	G	O4'-C1'	5.32	1.48	1.41
26	BB	408	G	N7-C5	-5.32	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	581	C	C4-C5	-5.32	1.38	1.43
26	BB	1097	U	C4-C5	5.32	1.48	1.43
26	BB	1137	G	N3-C4	-5.32	1.31	1.35
26	BB	1246	A	C6-N1	5.32	1.39	1.35
26	BB	1408	G	N9-C4	5.32	1.42	1.38
26	BB	1549	A	P-O5'	5.32	1.65	1.59
26	BB	2814	A	N3-C4	5.32	1.38	1.34
36	BL	113	PRO	N-CD	-5.32	1.40	1.47
1	AA	346	G	C6-N1	5.32	1.43	1.39
1	AA	461	A	C4'-C3'	-5.32	1.47	1.52
1	AA	985	C	N3-C4	-5.32	1.30	1.33
1	AA	1093	A	C4'-O4'	-5.32	1.38	1.45
2	AB	24	G	C5'-C4'	5.32	1.57	1.51
3	AC	58	C	N3-C4	5.32	1.37	1.33
26	BB	464	U	C4-C5	5.32	1.48	1.43
26	BB	658	U	P-O5'	5.32	1.65	1.59
26	BB	1298	C	C2-N3	5.32	1.40	1.35
26	BB	1534	U	N1-C2	5.32	1.43	1.38
26	BB	1670	C	N1-C2	5.32	1.45	1.40
26	BB	1839	G	C4'-C3'	5.32	1.58	1.53
26	BB	2661	G	C5'-C4'	5.32	1.57	1.51
26	BB	2842	G	C2-N3	5.32	1.37	1.32
1	AA	699	C	C2'-O2'	-5.31	1.34	1.41
1	AA	862	C	C2'-C1'	-5.31	1.47	1.53
1	AA	1088	G	C6-N1	-5.31	1.35	1.39
25	BA	81	G	N7-C5	5.31	1.42	1.39
26	BB	199	A	C4'-C3'	5.31	1.58	1.53
26	BB	1717	A	N7-C5	-5.31	1.36	1.39
26	BB	2379	G	C2-N3	5.31	1.37	1.32
1	AA	186	C	N1-C6	5.31	1.40	1.37
1	AA	292	G	C4'-O4'	-5.31	1.38	1.45
1	AA	447	G	C5'-C4'	5.31	1.57	1.51
1	AA	726	C	C2-O2	-5.31	1.19	1.24
25	BA	66	A	N7-C5	5.31	1.42	1.39
26	BB	1865	U	C3'-C2'	5.31	1.58	1.52
26	BB	2087	G	C2'-C1'	5.31	1.59	1.53
26	BB	2649	C	N1-C6	5.31	1.40	1.37
1	AA	486	U	N3-C4	5.31	1.43	1.38
1	AA	1377	A	P-O5'	5.31	1.65	1.59
2	AB	52	A	C6-N1	5.31	1.39	1.35
26	BB	532	A	C5-C4	-5.31	1.35	1.38
1	AA	100	G	C4'-O4'	-5.31	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	729	A	N9-C8	5.31	1.42	1.37
1	AA	843	U	C4'-O4'	-5.31	1.38	1.45
1	AA	872	A	C5'-C4'	5.31	1.57	1.51
1	AA	1350	A	N3-C4	5.31	1.38	1.34
1	AA	1473	G	C8-N7	-5.31	1.27	1.30
26	BB	404	A	P-O5'	5.31	1.65	1.59
26	BB	1578	U	C5-C6	5.31	1.39	1.34
26	BB	1964	G	O4'-C1'	-5.31	1.34	1.41
26	BB	2064	C	C4'-C3'	-5.31	1.47	1.52
26	BB	2183	A	P-O5'	-5.31	1.54	1.59
1	AA	35	G	C5'-C4'	5.31	1.57	1.51
1	AA	130	A	C1'-N9	5.31	1.56	1.48
1	AA	186	C	C4-C5	-5.31	1.38	1.43
1	AA	569	C	C4-C5	5.31	1.47	1.43
1	AA	1092	A	C5-C4	-5.31	1.35	1.38
4	AD	74	A	C6-N6	5.31	1.38	1.33
25	BA	38	C	C2-O2	-5.31	1.19	1.24
25	BA	40	U	C4-O4	-5.31	1.19	1.23
26	BB	105	C	N1-C2	5.31	1.45	1.40
26	BB	409	G	C1'-N9	5.31	1.56	1.48
26	BB	845	A	C2'-C1'	-5.31	1.47	1.53
26	BB	1807	G	C5'-C4'	5.31	1.57	1.51
41	BQ	10	ARG	CZ-NH1	5.31	1.40	1.33
2	AB	33	U	N3-C4	-5.31	1.33	1.38
26	BB	397	U	C4'-O4'	-5.31	1.38	1.45
26	BB	1799	G	P-O5'	5.31	1.65	1.59
1	AA	1308	U	C3'-C2'	5.30	1.58	1.52
3	AC	29	G	N1-C2	5.30	1.42	1.37
26	BB	180	G	C4'-O4'	-5.30	1.38	1.45
26	BB	684	G	C2-N3	5.30	1.36	1.32
26	BB	1297	C	N3-C4	5.30	1.37	1.33
26	BB	30	G	C5-C4	-5.30	1.34	1.38
1	AA	296	U	C4-C5	5.30	1.48	1.43
1	AA	556	C	C4-N4	-5.30	1.29	1.33
1	AA	837	U	P-O5'	5.30	1.65	1.59
7	AG	68	GLU	CB-CG	5.30	1.62	1.52
26	BB	374	A	N3-C4	5.30	1.38	1.34
26	BB	527	C	C5-C6	5.30	1.38	1.34
26	BB	1027	A	N7-C5	-5.30	1.36	1.39
26	BB	1380	G	N1-C2	5.30	1.42	1.37
26	BB	1623	G	N3-C4	5.30	1.39	1.35
26	BB	2316	G	C6-N1	5.30	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	147	G	C6-O6	-5.30	1.19	1.24
1	AA	265	G	C5-C6	5.30	1.47	1.42
1	AA	489	C	C4'-O4'	-5.30	1.38	1.45
1	AA	538	G	N3-C4	5.30	1.39	1.35
1	AA	572	A	N3-C4	5.30	1.38	1.34
1	AA	763	G	C2-N3	5.30	1.36	1.32
21	AU	11	ARG	NE-CZ	5.30	1.40	1.33
26	BB	32	C	N1-C2	5.30	1.45	1.40
26	BB	717	C	N3-C4	5.30	1.37	1.33
26	BB	886	A	C5'-C4'	5.30	1.57	1.51
26	BB	1088	A	C6-N1	5.30	1.39	1.35
26	BB	1432	G	C8-N7	5.30	1.34	1.30
26	BB	1582	C	N1-C2	5.30	1.45	1.40
26	BB	2434	A	N7-C5	-5.30	1.36	1.39
26	BB	2539	C	C5'-C4'	5.30	1.57	1.51
1	AA	634	C	P-O5'	5.30	1.65	1.59
26	BB	536	G	C2'-C1'	5.30	1.59	1.53
26	BB	1144	A	N7-C5	5.30	1.42	1.39
26	BB	1235	G	C6-N1	5.30	1.43	1.39
26	BB	2116	G	C2'-C1'	-5.30	1.47	1.53
26	BB	2169	A	C8-N7	-5.30	1.27	1.31
26	BB	2428	G	C8-N7	-5.30	1.27	1.30
26	BB	2786	U	C4'-O4'	-5.30	1.38	1.45
1	AA	47	C	C2'-O2'	-5.30	1.34	1.41
1	AA	1130	A	C5-C6	5.30	1.45	1.41
26	BB	1319	C	C2-N3	5.30	1.40	1.35
26	BB	1424	G	N7-C5	-5.30	1.36	1.39
26	BB	1502	A	N9-C8	-5.30	1.33	1.37
26	BB	1782	U	N1-C2	5.30	1.43	1.38
26	BB	2267	A	P-O5'	5.30	1.65	1.59
26	BB	2678	C	N1-C6	5.30	1.40	1.37
26	BB	2821	A	C6-N6	5.30	1.38	1.33
1	AA	308	C	C4-N4	5.29	1.38	1.33
1	AA	733	G	C5'-C4'	5.29	1.57	1.51
1	AA	886	G	C6-O6	5.29	1.28	1.24
26	BB	938	G	N9-C8	5.29	1.41	1.37
26	BB	1429	G	C5-C4	-5.29	1.34	1.38
1	AA	93	U	C2'-C1'	5.29	1.59	1.53
1	AA	826	C	C3'-C2'	-5.29	1.47	1.52
10	AJ	101	ARG	CZ-NH2	5.29	1.40	1.33
26	BB	919	U	N1-C2	5.29	1.43	1.38
26	BB	1126	A	C4'-O4'	-5.29	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1523	U	C3'-C2'	5.29	1.58	1.52
26	BB	1722	A	P-O5'	5.29	1.65	1.59
26	BB	1775	U	C2'-C1'	-5.29	1.47	1.53
26	BB	2014	A	N7-C5	5.29	1.42	1.39
26	BB	2178	C	N1-C2	5.29	1.45	1.40
26	BB	2195	U	C3'-O3'	5.29	1.49	1.42
1	AA	338	A	P-O5'	5.29	1.65	1.59
1	AA	389	A	O5'-C5'	-5.29	1.34	1.42
1	AA	611	C	O3'-P	5.29	1.67	1.61
1	AA	1233	G	N7-C5	5.29	1.42	1.39
1	AA	1311	A	C1'-N9	5.29	1.56	1.48
1	AA	1395	C	C4'-C3'	-5.29	1.47	1.52
26	BB	227	A	C6-N1	5.29	1.39	1.35
26	BB	392	U	N3-C4	5.29	1.43	1.38
26	BB	702	U	C2'-O2'	5.29	1.48	1.41
26	BB	760	G	N1-C2	5.29	1.42	1.37
26	BB	2366	A	N1-C2	-5.29	1.29	1.34
26	BB	2698	U	C2'-C1'	5.29	1.59	1.53
26	BB	2746	U	C4'-O4'	-5.29	1.38	1.45
26	BB	2768	U	P-O5'	5.29	1.65	1.59
1	AA	38	G	N3-C4	5.29	1.39	1.35
1	AA	259	G	C5'-C4'	5.29	1.57	1.51
1	AA	490	C	C4'-O4'	-5.29	1.38	1.45
1	AA	1541	U	N1-C2	5.29	1.43	1.38
26	BB	1455	G	O3'-P	5.29	1.67	1.61
26	BB	2042	A	N9-C8	5.29	1.42	1.37
26	BB	2823	A	O4'-C1'	-5.29	1.34	1.41
28	BD	39	SER	CB-OG	5.29	1.49	1.42
1	AA	864	A	C4'-C3'	5.29	1.58	1.53
1	AA	1232	U	C5'-C4'	5.29	1.57	1.51
1	AA	1241	G	N1-C2	5.29	1.42	1.37
1	AA	1276	G	C5-C4	5.29	1.42	1.38
1	AA	1399	C	C5-C6	5.29	1.38	1.34
2	AB	1	A	N3-C4	-5.29	1.31	1.34
26	BB	851	C	C3'-C2'	-5.29	1.47	1.52
26	BB	911	A	C6-N6	5.29	1.38	1.33
26	BB	1024	G	C4'-C3'	5.29	1.58	1.53
26	BB	1347	A	N3-C4	5.29	1.38	1.34
26	BB	1737	G	C1'-N9	5.29	1.56	1.48
1	AA	612	C	C2-O2	-5.29	1.19	1.24
26	BB	42	A	C8-N7	-5.29	1.27	1.31
26	BB	351	C	O4'-C1'	5.29	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	937	C	C4'-O4'	-5.29	1.38	1.45
26	BB	2352	A	C3'-C2'	5.29	1.58	1.52
26	BB	2862	G	C2-N3	5.29	1.36	1.32
1	AA	74	A	N9-C4	-5.29	1.34	1.37
1	AA	613	C	C5'-C4'	5.29	1.57	1.51
1	AA	884	U	C2-N3	5.29	1.41	1.37
1	AA	1208	C	N3-C4	5.29	1.37	1.33
1	AA	1311	A	O3'-P	5.29	1.67	1.61
1	AA	1321	U	C5-C6	-5.29	1.29	1.34
1	AA	1335	U	C5-C6	5.29	1.39	1.34
1	AA	1459	G	C4'-O4'	-5.29	1.38	1.45
3	AC	28	U	C1'-N1	5.29	1.56	1.48
26	BB	477	A	C4'-C3'	-5.29	1.47	1.52
26	BB	882	G	C6-N1	5.29	1.43	1.39
26	BB	901	C	N1-C6	5.29	1.40	1.37
26	BB	1840	G	P-O5'	5.29	1.65	1.59
26	BB	1919	A	O3'-P	5.29	1.67	1.61
26	BB	2463	C	C2-N3	5.29	1.40	1.35
1	AA	41	G	O3'-P	5.28	1.67	1.61
1	AA	138	G	C5-C4	-5.28	1.34	1.38
1	AA	191	G	N7-C5	-5.28	1.36	1.39
1	AA	243	A	P-O5'	5.28	1.65	1.59
1	AA	569	C	P-OP2	-5.28	1.40	1.49
1	AA	673	A	N3-C4	5.28	1.38	1.34
1	AA	917	G	C4'-O4'	-5.28	1.38	1.45
1	AA	1358	U	N1-C6	5.28	1.42	1.38
26	BB	25	U	C2-N3	5.28	1.41	1.37
26	BB	650	C	P-O5'	5.28	1.65	1.59
26	BB	710	U	C4'-O4'	-5.28	1.38	1.45
26	BB	1500	G	N1-C2	5.28	1.42	1.37
26	BB	2058	A	C6-N6	5.28	1.38	1.33
1	AA	184	G	C2-N3	5.28	1.36	1.32
1	AA	465	A	C5-C4	-5.28	1.35	1.38
1	AA	1117	A	N3-C4	5.28	1.38	1.34
1	AA	1524	C	N1-C2	5.28	1.45	1.40
26	BB	235	U	C5-C6	5.28	1.39	1.34
26	BB	1027	A	C6-N6	-5.28	1.29	1.33
1	AA	139	A	N3-C4	5.28	1.38	1.34
1	AA	534	U	C2-O2	5.28	1.27	1.22
1	AA	805	C	C2'-C1'	5.28	1.59	1.53
1	AA	904	U	C2'-C1'	5.28	1.59	1.53
26	BB	309	A	C4'-O4'	-5.28	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	684	G	O3'-P	5.28	1.67	1.61
26	BB	1749	A	O3'-P	5.28	1.67	1.61
26	BB	2232	C	N1-C6	5.28	1.40	1.37
26	BB	2500	U	C5-C6	-5.28	1.29	1.34
1	AA	1212	U	C4-O4	5.28	1.27	1.23
25	BA	70	C	C2-O2	-5.28	1.19	1.24
26	BB	73	A	C2'-O2'	5.28	1.48	1.41
26	BB	1391	U	N1-C2	5.28	1.43	1.38
26	BB	2861	U	N1-C6	-5.28	1.33	1.38
1	AA	543	U	N1-C2	5.28	1.43	1.38
1	AA	697	U	P-O5'	5.28	1.65	1.59
1	AA	1486	G	C6-N1	5.28	1.43	1.39
25	BA	85	G	O4'-C1'	5.28	1.48	1.41
26	BB	81	G	N3-C4	5.28	1.39	1.35
26	BB	588	U	C5-C6	5.28	1.38	1.34
26	BB	987	C	N1-C6	5.28	1.40	1.37
26	BB	1680	U	O5'-C5'	-5.28	1.34	1.42
26	BB	1985	C	C5-C6	5.28	1.38	1.34
26	BB	2592	G	P-O5'	-5.28	1.54	1.59
26	BB	2704	C	C5'-C4'	5.28	1.57	1.51
39	BO	31	PHE	CE1-CZ	5.28	1.47	1.37
26	BB	537	G	P-O5'	5.28	1.65	1.59
26	BB	890	C	P-O5'	5.28	1.65	1.59
26	BB	1722	A	N3-C4	5.28	1.38	1.34
26	BB	2239	G	C5'-C4'	5.28	1.57	1.51
26	BB	2574	G	C2-N2	-5.28	1.29	1.34
1	AA	149	A	O3'-P	5.27	1.67	1.61
1	AA	199	A	N1-C2	5.27	1.39	1.34
1	AA	748	G	C5-C6	-5.27	1.37	1.42
1	AA	1148	U	C5'-C4'	5.27	1.57	1.51
26	BB	189	G	O3'-P	5.27	1.67	1.61
26	BB	391	A	C2-N3	5.27	1.38	1.33
26	BB	489	G	P-O5'	-5.27	1.54	1.59
26	BB	590	A	N3-C4	5.27	1.38	1.34
26	BB	1125	G	P-O5'	-5.27	1.54	1.59
1	AA	399	G	C3'-C2'	-5.27	1.47	1.52
1	AA	437	U	N1-C6	5.27	1.42	1.38
1	AA	1067	A	N3-C4	-5.27	1.31	1.34
25	BA	110	C	C4-N4	5.27	1.38	1.33
26	BB	670	A	N1-C2	-5.27	1.29	1.34
26	BB	967	U	C2-N3	5.27	1.41	1.37
26	BB	1083	U	C4'-C3'	5.27	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2326	C	C2'-C1'	-5.27	1.47	1.53
26	BB	2350	C	C3'-O3'	-5.27	1.34	1.42
25	BA	118	C	N3-C4	5.27	1.37	1.33
26	BB	1317	G	C4'-O4'	-5.27	1.38	1.45
26	BB	1613	G	C6-O6	-5.27	1.19	1.24
26	BB	2362	C	C3'-O3'	5.27	1.49	1.42
26	BB	2594	C	N1-C2	5.27	1.45	1.40
1	AA	121	U	C1'-N1	5.27	1.56	1.48
1	AA	488	C	C4'-O4'	-5.27	1.38	1.45
1	AA	1171	A	O4'-C1'	5.27	1.48	1.41
1	AA	1247	U	C2-N3	5.27	1.41	1.37
26	BB	93	G	C5'-C4'	5.27	1.57	1.51
26	BB	158	U	C5'-C4'	5.27	1.57	1.51
26	BB	249	C	C4'-O4'	-5.27	1.38	1.45
26	BB	261	G	N3-C4	-5.27	1.31	1.35
26	BB	578	G	C5-C6	5.27	1.47	1.42
26	BB	625	G	N1-C2	5.27	1.42	1.37
26	BB	972	A	C6-N6	5.27	1.38	1.33
26	BB	990	A	C6-N1	-5.27	1.31	1.35
26	BB	1542	U	C4'-C3'	5.27	1.58	1.53
26	BB	1795	C	O4'-C1'	5.27	1.48	1.41
26	BB	1986	C	C4'-C3'	5.27	1.58	1.53
46	BV	76	ARG	NE-CZ	5.27	1.39	1.33
1	AA	649	A	N3-C4	5.27	1.38	1.34
1	AA	675	A	P-O5'	5.27	1.65	1.59
1	AA	809	G	C8-N7	-5.27	1.27	1.30
1	AA	850	U	C2-N3	5.27	1.41	1.37
1	AA	1052	U	N1-C2	5.27	1.43	1.38
26	BB	621	A	C4'-O4'	-5.27	1.38	1.45
26	BB	957	C	O5'-C5'	-5.27	1.34	1.42
26	BB	1271	G	N3-C4	-5.27	1.31	1.35
26	BB	1284	A	P-O5'	5.27	1.65	1.59
26	BB	1342	A	N9-C4	-5.27	1.34	1.37
26	BB	1541	C	C5-C6	-5.27	1.30	1.34
26	BB	2561	U	N1-C2	5.27	1.43	1.38
26	BB	2775	G	P-O5'	5.27	1.65	1.59
26	BB	2139	U	C2'-C1'	5.27	1.59	1.53
1	AA	56	U	C5-C6	5.26	1.38	1.34
4	AD	48	U	C2-N3	5.26	1.41	1.37
26	BB	287	G	P-O5'	5.26	1.65	1.59
26	BB	899	A	C4'-O4'	-5.26	1.38	1.45
26	BB	925	A	C5'-C4'	5.26	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1061	U	C5'-C4'	5.26	1.57	1.51
26	BB	1073	A	P-O5'	5.26	1.65	1.59
26	BB	1406	U	C2-N3	5.26	1.41	1.37
26	BB	1540	G	C5'-C4'	5.26	1.57	1.51
26	BB	1572	A	C5'-C4'	5.26	1.57	1.51
26	BB	1635	A	C4'-O4'	-5.26	1.38	1.45
26	BB	1740	G	C8-N7	5.26	1.34	1.30
26	BB	2212	A	C4'-C3'	5.26	1.58	1.53
1	AA	163	C	P-O5'	5.26	1.65	1.59
1	AA	482	A	C8-N7	-5.26	1.27	1.31
1	AA	930	C	N1-C6	5.26	1.40	1.37
25	BA	63	C	C4-C5	-5.26	1.38	1.43
26	BB	364	C	O3'-P	5.26	1.67	1.61
26	BB	1177	G	C6-O6	-5.26	1.19	1.24
26	BB	1187	G	P-O5'	5.26	1.65	1.59
1	AA	755	G	C6-N1	5.26	1.43	1.39
1	AA	853	C	C4-C5	5.26	1.47	1.43
1	AA	1228	C	N1-C6	5.26	1.40	1.37
1	AA	1506	U	C4-C5	5.26	1.48	1.43
20	AT	64	ARG	CZ-NH2	5.26	1.39	1.33
26	BB	44	A	N3-C4	5.26	1.38	1.34
26	BB	50	U	N3-C4	5.26	1.43	1.38
26	BB	638	G	C8-N7	5.26	1.34	1.30
26	BB	1668	A	C5-C6	5.26	1.45	1.41
26	BB	2733	A	C8-N7	-5.26	1.27	1.31
31	BG	123	GLY	N-CA	-5.26	1.38	1.46
1	AA	302	G	N9-C4	5.26	1.42	1.38
1	AA	375	U	O3'-P	-5.26	1.54	1.61
1	AA	420	U	N3-C4	5.26	1.43	1.38
1	AA	559	A	C1'-N9	5.26	1.56	1.48
1	AA	640	A	N3-C4	5.26	1.38	1.34
1	AA	1322	C	C2-N3	-5.26	1.31	1.35
1	AA	1370	G	C8-N7	-5.26	1.27	1.30
6	AF	160	GLU	CD-OE2	-5.26	1.19	1.25
26	BB	73	A	C6-N1	-5.26	1.31	1.35
26	BB	386	G	C2-N3	5.26	1.36	1.32
26	BB	604	G	N7-C5	-5.26	1.36	1.39
26	BB	624	C	C4'-O4'	-5.26	1.38	1.45
26	BB	703	U	C3'-O3'	-5.26	1.34	1.42
26	BB	803	U	P-O5'	-5.26	1.54	1.59
26	BB	1254	A	C5-C4	-5.26	1.35	1.38
26	BB	2272	U	C4'-C3'	5.26	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2729	G	C5'-C4'	5.26	1.57	1.51
26	BB	2771	C	C3'-O3'	-5.26	1.34	1.42
41	BQ	20	GLU	CB-CG	5.26	1.62	1.52
3	AC	30	U	O3'-P	5.26	1.67	1.61
4	AD	46	G	P-O5'	5.26	1.65	1.59
26	BB	1062	G	N7-C5	5.26	1.42	1.39
26	BB	1572	A	N7-C5	-5.26	1.36	1.39
26	BB	1672	A	C5-C4	-5.26	1.35	1.38
26	BB	1823	G	C2-N3	5.26	1.36	1.32
1	AA	273	U	N3-C4	5.26	1.43	1.38
1	AA	715	A	C2-N3	5.26	1.38	1.33
1	AA	881	G	N1-C2	5.26	1.42	1.37
1	AA	1429	A	N3-C4	5.26	1.38	1.34
2	AB	57	G	N7-C5	5.26	1.42	1.39
2	AB	65	C	C4-C5	5.26	1.47	1.43
26	BB	603	A	P-O5'	5.26	1.65	1.59
26	BB	1205	A	C5'-C4'	5.26	1.57	1.51
26	BB	1479	G	O3'-P	5.26	1.67	1.61
26	BB	2500	U	P-O5'	5.26	1.65	1.59
36	BL	31	GLU	CD-OE2	-5.26	1.19	1.25
1	AA	1358	U	C5-C6	5.25	1.38	1.34
8	AH	129	SER	CA-CB	5.25	1.60	1.52
26	BB	510	C	P-O5'	-5.25	1.54	1.59
26	BB	1458	U	C5-C6	5.25	1.38	1.34
26	BB	2452	C	C4'-O4'	-5.25	1.38	1.45
1	AA	45	G	P-O5'	5.25	1.65	1.59
1	AA	305	G	C4'-O4'	-5.25	1.38	1.45
1	AA	827	U	C5'-C4'	5.25	1.57	1.51
26	BB	253	C	O3'-P	5.25	1.67	1.61
26	BB	375	G	C2-N3	5.25	1.36	1.32
26	BB	1560	G	N1-C2	5.25	1.42	1.37
26	BB	1623	G	C8-N7	5.25	1.34	1.30
26	BB	2339	C	C4'-O4'	-5.25	1.38	1.45
26	BB	2783	U	O4'-C1'	5.25	1.48	1.41
1	AA	1	A	N9-C4	5.25	1.41	1.37
1	AA	274	A	C5'-C4'	5.25	1.57	1.51
1	AA	424	G	C5'-C4'	5.25	1.57	1.51
1	AA	909	A	N3-C4	5.25	1.38	1.34
1	AA	1528	U	N1-C6	5.25	1.42	1.38
3	AC	21	U	C4'-C3'	-5.25	1.47	1.52
26	BB	244	A	C4'-O4'	-5.25	1.38	1.45
26	BB	353	C	N3-C4	5.25	1.37	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	455	C	C2'-C1'	5.25	1.59	1.53
26	BB	475	C	C2-O2	-5.25	1.19	1.24
26	BB	513	A	N1-C2	-5.25	1.29	1.34
26	BB	729	G	C8-N7	-5.25	1.27	1.30
26	BB	981	A	N3-C4	5.25	1.38	1.34
1	AA	366	A	C6-N6	-5.25	1.29	1.33
3	AC	38	G	N1-C2	5.25	1.42	1.37
26	BB	101	A	C2'-C1'	5.25	1.59	1.53
26	BB	867	C	C5-C6	5.25	1.38	1.34
26	BB	1307	A	C8-N7	-5.25	1.27	1.31
1	AA	1021	A	C2'-C1'	5.25	1.59	1.53
1	AA	1110	A	C5-C4	-5.25	1.35	1.38
1	AA	1230	C	P-O5'	5.25	1.65	1.59
2	AB	6	C	O3'-P	5.25	1.67	1.61
4	AD	5	G	C6-O6	-5.25	1.19	1.24
26	BB	616	A	C5'-C4'	5.25	1.57	1.51
26	BB	926	G	C4'-O4'	-5.25	1.38	1.45
26	BB	1063	G	C8-N7	-5.25	1.27	1.30
26	BB	1197	G	N3-C4	5.25	1.39	1.35
26	BB	1397	U	O3'-P	5.25	1.67	1.61
26	BB	1497	U	C4-C5	5.25	1.48	1.43
26	BB	2242	G	N9-C8	5.25	1.41	1.37
32	BH	7	PRO	CA-C	5.25	1.63	1.52
1	AA	345	C	O3'-P	5.25	1.67	1.61
1	AA	874	G	C2'-C1'	5.25	1.59	1.53
1	AA	913	A	N7-C5	5.25	1.42	1.39
19	AS	32	PHE	CG-CD1	5.25	1.46	1.38
25	BA	55	U	C2-N3	5.25	1.41	1.37
25	BA	116	G	N9-C4	-5.25	1.33	1.38
26	BB	283	G	C5'-C4'	5.25	1.57	1.51
26	BB	831	G	C8-N7	-5.25	1.27	1.30
26	BB	860	U	P-O5'	5.25	1.65	1.59
26	BB	1281	G	C4'-O4'	-5.25	1.38	1.45
26	BB	1498	C	C5'-C4'	5.25	1.57	1.51
26	BB	1508	A	C6-N1	-5.25	1.31	1.35
26	BB	1553	A	N9-C4	5.25	1.41	1.37
26	BB	1919	A	N3-C4	5.25	1.38	1.34
26	BB	2515	C	C5-C6	5.25	1.38	1.34
1	AA	182	A	N1-C2	5.25	1.39	1.34
1	AA	1139	G	C2-N3	5.25	1.36	1.32
26	BB	1649	G	C5-C4	-5.25	1.34	1.38
26	BB	1749	A	P-O5'	5.25	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	650	G	N7-C5	5.24	1.42	1.39
1	AA	830	G	C4'-C3'	5.24	1.58	1.53
26	BB	594	U	P-O5'	5.24	1.65	1.59
26	BB	1344	U	C4-C5	5.24	1.48	1.43
26	BB	1681	G	N9-C4	5.24	1.42	1.38
26	BB	1784	A	C6-N6	5.24	1.38	1.33
26	BB	1879	C	C4'-C3'	5.24	1.58	1.53
26	BB	2380	C	N3-C4	5.24	1.37	1.33
26	BB	2431	U	O4'-C1'	5.24	1.48	1.41
1	AA	336	A	N7-C5	5.24	1.42	1.39
26	BB	354	A	C2'-O2'	-5.24	1.34	1.41
1	AA	128	G	C2-N3	-5.24	1.28	1.32
1	AA	165	G	C5-C4	5.24	1.42	1.38
1	AA	402	G	N1-C2	5.24	1.42	1.37
1	AA	569	C	C4'-O4'	-5.24	1.38	1.45
1	AA	657	U	C4-C5	5.24	1.48	1.43
1	AA	1198	G	P-O5'	-5.24	1.54	1.59
25	BA	69	G	O3'-P	5.24	1.67	1.61
26	BB	255	A	N7-C5	5.24	1.42	1.39
26	BB	425	G	C3'-O3'	5.24	1.49	1.42
26	BB	449	A	N3-C4	5.24	1.38	1.34
26	BB	1107	G	C6-O6	-5.24	1.19	1.24
26	BB	1686	C	C5-C6	5.24	1.38	1.34
26	BB	1958	C	C4'-C3'	5.24	1.58	1.53
26	BB	2204	G	C6-N1	5.24	1.43	1.39
26	BB	2565	A	C5'-C4'	5.24	1.57	1.51
26	BB	2659	G	N3-C4	5.24	1.39	1.35
26	BB	2764	A	C6-N1	-5.24	1.31	1.35
26	BB	2774	C	C2-N3	5.24	1.40	1.35
26	BB	2897	U	C2-N3	5.24	1.41	1.37
35	BK	51	GLY	CA-C	5.24	1.60	1.51
1	AA	306	A	C5-C4	-5.24	1.35	1.38
1	AA	1003	G	N7-C5	-5.24	1.36	1.39
4	AD	28	U	N1-C2	5.24	1.43	1.38
26	BB	326	G	C6-N1	5.24	1.43	1.39
26	BB	713	G	C5-C6	5.24	1.47	1.42
26	BB	766	U	N1-C6	-5.24	1.33	1.38
26	BB	849	A	C6-N1	5.24	1.39	1.35
26	BB	1424	G	O4'-C1'	5.24	1.48	1.41
26	BB	1721	G	C2-N3	5.24	1.36	1.32
26	BB	2395	C	C3'-C2'	5.24	1.58	1.52
26	BB	2455	G	N1-C2	5.24	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	55	A	N9-C8	5.24	1.42	1.37
1	AA	132	C	C2-O2	-5.24	1.19	1.24
1	AA	377	G	C2'-O2'	-5.24	1.34	1.41
1	AA	871	U	C5'-C4'	5.24	1.57	1.51
2	AB	40	C	C4'-C3'	5.24	1.58	1.53
4	AD	4	G	C8-N7	-5.24	1.27	1.30
26	BB	682	G	C4'-O4'	5.24	1.52	1.45
26	BB	1233	C	N1-C6	5.24	1.40	1.37
26	BB	1373	A	P-O5'	5.24	1.65	1.59
26	BB	2024	G	C2'-C1'	5.24	1.59	1.53
26	BB	2044	C	C1'-N1	5.24	1.56	1.48
26	BB	2754	U	C1'-N1	5.24	1.56	1.48
1	AA	53	A	C4'-O4'	-5.24	1.38	1.45
1	AA	715	A	C6-N6	5.24	1.38	1.33
1	AA	1296	C	C5-C6	5.24	1.38	1.34
1	AA	1513	A	P-O5'	5.24	1.65	1.59
15	AO	99	GLY	CA-C	5.24	1.60	1.51
26	BB	177	G	C3'-O3'	5.24	1.49	1.42
26	BB	678	C	N1-C6	-5.24	1.34	1.37
26	BB	698	C	C4'-C3'	-5.24	1.47	1.52
26	BB	930	G	C5'-C4'	5.24	1.57	1.51
26	BB	1041	G	C5-C6	5.24	1.47	1.42
26	BB	1403	A	C5'-C4'	5.24	1.57	1.51
26	BB	1471	G	C2-N3	5.24	1.36	1.32
26	BB	1768	C	N3-C4	5.24	1.37	1.33
26	BB	2014	A	P-O5'	5.24	1.65	1.59
26	BB	2647	U	C5'-C4'	5.24	1.57	1.51
26	BB	2829	A	N9-C4	5.24	1.41	1.37
26	BB	2837	A	O3'-P	5.24	1.67	1.61
45	BU	101	SER	CB-OG	5.24	1.49	1.42
1	AA	1030	U	N1-C2	5.23	1.43	1.38
25	BA	17	C	O4'-C1'	-5.23	1.34	1.41
26	BB	284	U	P-O5'	5.23	1.65	1.59
26	BB	787	C	C2'-O2'	5.23	1.48	1.41
26	BB	1217	U	C4-C5	5.23	1.48	1.43
26	BB	1763	G	O3'-P	5.23	1.67	1.61
1	AA	244	U	N1-C6	5.23	1.42	1.38
1	AA	1033	G	C6-N1	5.23	1.43	1.39
1	AA	1036	A	N3-C4	5.23	1.38	1.34
1	AA	1046	A	N3-C4	5.23	1.38	1.34
1	AA	1076	U	C2-O2	5.23	1.27	1.22
1	AA	1214	C	C4-C5	5.23	1.47	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1217	C	O3'-P	5.23	1.67	1.61
1	AA	1288	A	C3'-C2'	5.23	1.58	1.52
1	AA	1523	G	N1-C2	5.23	1.42	1.37
9	AI	59	TYR	CD2-CE2	5.23	1.47	1.39
26	BB	301	G	C5-C4	5.23	1.42	1.38
26	BB	408	G	C4'-O4'	-5.23	1.38	1.45
26	BB	798	G	N9-C8	5.23	1.41	1.37
26	BB	1086	A	C5-C4	-5.23	1.35	1.38
26	BB	1442	U	C4'-C3'	5.23	1.58	1.53
26	BB	2320	U	O3'-P	5.23	1.67	1.61
26	BB	2394	C	P-O5'	-5.23	1.54	1.59
1	AA	398	U	C4-O4	-5.23	1.19	1.23
1	AA	928	G	N9-C8	-5.23	1.34	1.37
4	AD	32	G	C6-O6	-5.23	1.19	1.24
26	BB	576	U	C5'-C4'	5.23	1.57	1.51
26	BB	652	U	N1-C2	5.23	1.43	1.38
26	BB	1625	C	N3-C4	-5.23	1.30	1.33
26	BB	1969	A	C6-N1	5.23	1.39	1.35
26	BB	2400	G	C4'-O4'	-5.23	1.38	1.45
1	AA	58	C	O3'-P	5.23	1.67	1.61
26	BB	731	C	C5'-C4'	5.23	1.57	1.51
26	BB	1228	G	C4'-C3'	-5.23	1.47	1.52
26	BB	2743	U	C2-N3	5.23	1.41	1.37
1	AA	2	A	N9-C4	5.23	1.41	1.37
1	AA	908	A	C4'-O4'	-5.23	1.38	1.45
1	AA	1208	C	C1'-N1	5.23	1.56	1.48
1	AA	1482	G	N3-C4	5.23	1.39	1.35
1	AA	1511	G	N7-C5	5.23	1.42	1.39
25	BA	1	U	C4-O4	-5.23	1.19	1.23
26	BB	32	C	C4'-O4'	-5.23	1.38	1.45
26	BB	856	G	C5-C4	-5.23	1.34	1.38
26	BB	1025	G	N7-C5	5.23	1.42	1.39
26	BB	1637	A	N1-C2	-5.23	1.29	1.34
26	BB	1648	U	C4'-C3'	5.23	1.58	1.53
26	BB	2177	C	O4'-C1'	5.23	1.48	1.41
26	BB	2408	U	C3'-C2'	5.23	1.58	1.52
26	BB	2564	A	C8-N7	-5.23	1.27	1.31
1	AA	382	A	N9-C8	5.23	1.42	1.37
1	AA	1259	C	P-O5'	5.23	1.65	1.59
2	AB	18	G	C6-O6	-5.23	1.19	1.24
26	BB	598	U	C4'-C3'	-5.23	1.47	1.52
26	BB	1241	A	C5'-C4'	5.23	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1753	G	N7-C5	5.23	1.42	1.39
26	BB	2378	A	C5-C4	5.23	1.42	1.38
26	BB	2522	U	C2'-C1'	5.23	1.59	1.53
26	BB	2642	G	C2'-O2'	5.23	1.48	1.41
1	AA	131	A	P-O5'	5.22	1.65	1.59
1	AA	471	U	C2-N3	5.22	1.41	1.37
4	AD	12	G	N9-C4	5.22	1.42	1.38
25	BA	103	U	O4'-C1'	5.22	1.48	1.41
26	BB	385	C	C5'-C4'	5.22	1.57	1.51
26	BB	525	U	N1-C2	5.22	1.43	1.38
26	BB	902	C	O4'-C1'	5.22	1.48	1.41
26	BB	1216	G	C6-O6	-5.22	1.19	1.24
26	BB	2836	U	C4'-C3'	-5.22	1.47	1.52
1	AA	445	G	C1'-N9	5.22	1.56	1.48
1	AA	666	G	C5-C6	5.22	1.47	1.42
1	AA	1223	C	N3-C4	5.22	1.37	1.33
4	AD	45	A	C4'-O4'	-5.22	1.38	1.45
26	BB	44	A	P-O5'	5.22	1.65	1.59
26	BB	185	G	O3'-P	-5.22	1.54	1.61
26	BB	647	G	C6-N1	5.22	1.43	1.39
26	BB	1540	G	C5-C6	5.22	1.47	1.42
26	BB	2357	G	C2-N2	-5.22	1.29	1.34
31	BG	6	TYR	CE1-CZ	5.22	1.45	1.38
1	AA	1273	C	C2'-O2'	5.22	1.48	1.41
26	BB	59	U	C4-O4	-5.22	1.19	1.23
26	BB	1206	G	N3-C4	5.22	1.39	1.35
26	BB	2093	G	O4'-C1'	5.22	1.48	1.41
26	BB	2754	U	C2'-C1'	5.22	1.59	1.53
26	BB	2760	C	P-O5'	5.22	1.65	1.59
1	AA	134	G	C2'-C1'	5.22	1.59	1.53
1	AA	184	G	C6-N1	5.22	1.43	1.39
1	AA	532	A	C6-N1	-5.22	1.31	1.35
1	AA	1011	C	C5-C6	5.22	1.38	1.34
4	AD	51	U	P-O5'	5.22	1.65	1.59
26	BB	1173	U	C3'-C2'	5.22	1.58	1.52
26	BB	1850	G	O3'-P	5.22	1.67	1.61
26	BB	1945	G	C2'-O2'	5.22	1.48	1.41
26	BB	1954	G	C2-N3	5.22	1.36	1.32
26	BB	2737	G	C5'-C4'	5.22	1.57	1.51
26	BB	2883	A	C5'-C4'	5.22	1.57	1.51
28	BD	51	ARG	CZ-NH2	5.22	1.39	1.33
29	BE	45	TYR	CG-CD2	-5.22	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	15	G	O4'-C1'	5.22	1.48	1.41
1	AA	538	G	O4'-C1'	5.22	1.48	1.41
25	BA	106	G	C5-C6	5.22	1.47	1.42
26	BB	1778	U	N1-C2	5.22	1.43	1.38
26	BB	2895	G	C4'-C3'	5.22	1.58	1.53
1	AA	803	G	N1-C2	5.22	1.42	1.37
1	AA	895	G	C8-N7	-5.22	1.27	1.30
1	AA	900	A	P-O5'	5.22	1.65	1.59
1	AA	948	C	C4-C5	5.22	1.47	1.43
1	AA	996	A	C6-N6	-5.22	1.29	1.33
1	AA	1094	G	C2-N3	5.22	1.36	1.32
1	AA	1362	A	C3'-C2'	5.22	1.58	1.52
2	AB	40	C	N3-C4	5.22	1.37	1.33
8	AH	118	GLY	N-CA	5.22	1.53	1.46
26	BB	256	A	N9-C4	5.22	1.41	1.37
26	BB	493	G	N1-C2	5.22	1.42	1.37
1	AA	461	A	C2-N3	-5.21	1.28	1.33
26	BB	531	C	N3-C4	-5.21	1.30	1.33
26	BB	1057	A	C2'-C1'	5.21	1.59	1.53
26	BB	1395	A	C6-N1	-5.21	1.31	1.35
26	BB	2544	G	C5'-C4'	5.21	1.57	1.51
39	BO	51	ARG	CZ-NH1	5.21	1.39	1.33
53	B2	54	GLY	CA-C	5.21	1.60	1.51
1	AA	1313	U	C3'-C2'	-5.21	1.47	1.52
26	BB	2765	A	C5-C4	-5.21	1.35	1.38
1	AA	419	C	C4'-O4'	-5.21	1.38	1.45
1	AA	1309	G	O5'-C5'	-5.21	1.34	1.42
26	BB	273	G	N9-C8	-5.21	1.34	1.37
26	BB	688	U	O3'-P	5.21	1.67	1.61
26	BB	736	C	N1-C6	5.21	1.40	1.37
26	BB	770	G	N3-C4	-5.21	1.31	1.35
26	BB	1132	U	C4'-O4'	-5.21	1.38	1.45
26	BB	1747	U	C2'-O2'	-5.21	1.34	1.41
26	BB	1784	A	C6-N1	5.21	1.39	1.35
26	BB	1809	A	P-O5'	5.21	1.65	1.59
26	BB	2074	U	P-O5'	5.21	1.65	1.59
26	BB	2346	A	P-O5'	-5.21	1.54	1.59
26	BB	2530	A	N1-C2	-5.21	1.29	1.34
26	BB	2639	A	C4'-O4'	-5.21	1.38	1.45
1	AA	23	C	C3'-O3'	5.21	1.49	1.42
1	AA	332	G	O3'-P	5.21	1.67	1.61
26	BB	49	A	O3'-P	-5.21	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2057	G	N9-C8	-5.21	1.34	1.37
1	AA	22	G	C5'-C4'	5.21	1.57	1.51
1	AA	87	C	C2-N3	5.21	1.40	1.35
1	AA	279	A	C2'-O2'	5.21	1.48	1.41
1	AA	425	G	N9-C8	5.21	1.41	1.37
1	AA	958	A	N3-C4	5.21	1.38	1.34
1	AA	1065	U	P-O5'	5.21	1.65	1.59
2	AB	17	H2U	O3'-P	5.21	1.67	1.61
26	BB	617	G	P-O5'	5.21	1.65	1.59
26	BB	917	A	N7-C5	-5.21	1.36	1.39
26	BB	990	A	C4'-O4'	-5.21	1.38	1.45
26	BB	1472	C	C2-N3	5.21	1.40	1.35
26	BB	1615	C	N1-C6	5.21	1.40	1.37
26	BB	1637	A	C4'-C3'	-5.21	1.47	1.52
26	BB	1818	U	C3'-C2'	5.21	1.58	1.52
26	BB	2614	A	C8-N7	-5.21	1.27	1.31
1	AA	267	C	C4'-O4'	-5.21	1.38	1.45
1	AA	1401	G	N3-C4	5.21	1.39	1.35
4	AD	28	U	C4'-C3'	5.21	1.58	1.53
4	AD	58	A	O4'-C1'	5.21	1.48	1.41
26	BB	651	G	C5'-C4'	5.21	1.57	1.51
26	BB	751	A	C5'-C4'	5.21	1.57	1.51
26	BB	833	A	C5-C4	-5.21	1.35	1.38
26	BB	1269	A	C2-N3	5.21	1.38	1.33
26	BB	1289	C	C2'-O2'	5.21	1.48	1.41
26	BB	1354	A	C3'-C2'	-5.21	1.47	1.52
26	BB	1759	A	C4'-O4'	-5.21	1.38	1.45
26	BB	1822	C	C2'-O2'	5.21	1.48	1.41
26	BB	2427	C	C5'-C4'	5.21	1.57	1.51
1	AA	803	G	O3'-P	5.21	1.67	1.61
26	BB	466	A	C4'-O4'	-5.21	1.38	1.45
26	BB	1467	U	N1-C2	5.21	1.43	1.38
26	BB	1946	U	C4-C5	5.21	1.48	1.43
1	AA	1050	G	C5-C6	-5.20	1.37	1.42
1	AA	1118	U	O3'-P	-5.20	1.54	1.61
25	BA	46	A	N1-C2	-5.20	1.29	1.34
26	BB	524	G	O4'-C1'	5.20	1.48	1.41
26	BB	851	C	C2-N3	5.20	1.40	1.35
26	BB	1064	C	C4-C5	5.20	1.47	1.43
26	BB	1316	U	C2'-O2'	-5.20	1.34	1.41
26	BB	1351	C	C4-N4	5.20	1.38	1.33
26	BB	1746	A	C5-C4	-5.20	1.35	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1913	A	P-O5'	5.20	1.65	1.59
26	BB	2093	G	C5'-C4'	5.20	1.57	1.51
26	BB	2572	A	N9-C8	-5.20	1.33	1.37
1	AA	880	C	C5'-C4'	5.20	1.57	1.51
1	AA	918	A	O3'-P	-5.20	1.54	1.61
1	AA	1113	C	C2-O2	-5.20	1.19	1.24
26	BB	93	G	C5-C4	-5.20	1.34	1.38
26	BB	111	A	C4'-O4'	-5.20	1.38	1.45
26	BB	263	G	C6-N1	5.20	1.43	1.39
26	BB	926	G	C2-N3	5.20	1.36	1.32
1	AA	342	C	O4'-C1'	5.20	1.48	1.41
1	AA	612	C	N3-C4	-5.20	1.30	1.33
1	AA	754	C	O5'-C5'	-5.20	1.34	1.42
1	AA	1003	G	C4'-O4'	-5.20	1.38	1.45
1	AA	1053	G	C5-C4	-5.20	1.34	1.38
1	AA	1061	G	C4'-O4'	-5.20	1.38	1.45
25	BA	93	C	C5-C6	5.20	1.38	1.34
25	BA	94	A	C4'-C3'	5.20	1.58	1.53
26	BB	247	G	C4'-O4'	-5.20	1.38	1.45
26	BB	612	G	C5-C4	-5.20	1.34	1.38
26	BB	807	U	C5'-C4'	5.20	1.57	1.51
26	BB	1000	A	N9-C4	-5.20	1.34	1.37
26	BB	1397	U	C4'-O4'	-5.20	1.38	1.45
26	BB	2033	A	P-OP1	-5.20	1.40	1.49
26	BB	2609	U	C4-C5	5.20	1.48	1.43
26	BB	2721	A	C4'-O4'	-5.20	1.38	1.45
1	AA	1055	A	C8-N7	5.20	1.35	1.31
1	AA	1316	G	N7-C5	-5.20	1.36	1.39
1	AA	1382	C	C4'-C3'	5.20	1.58	1.53
1	AA	1495	U	C4'-O4'	-5.20	1.38	1.45
26	BB	1755	A	C5-C6	-5.20	1.36	1.41
26	BB	1859	U	C5'-C4'	5.20	1.57	1.51
26	BB	1944	U	C4-O4	-5.20	1.19	1.23
26	BB	2093	G	C3'-C2'	-5.20	1.47	1.52
26	BB	2313	C	C2-O2	-5.20	1.19	1.24
26	BB	2393	U	C4'-C3'	5.20	1.58	1.53
7	AG	134	TYR	CE2-CZ	5.20	1.45	1.38
26	BB	812	C	P-O5'	5.20	1.65	1.59
26	BB	901	C	P-O5'	5.20	1.65	1.59
26	BB	1309	G	N3-C4	5.20	1.39	1.35
26	BB	1332	G	O5'-C5'	-5.20	1.34	1.42
26	BB	1625	C	C5-C6	-5.20	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1715	G	O3'-P	5.20	1.67	1.61
1	AA	320	A	N3-C4	5.20	1.38	1.34
1	AA	342	C	C4'-O4'	-5.20	1.38	1.45
3	AC	49	U	C4-C5	5.20	1.48	1.43
26	BB	250	G	C2-N3	5.20	1.36	1.32
26	BB	1024	G	C5-C4	-5.20	1.34	1.38
26	BB	1216	G	C8-N7	-5.20	1.27	1.30
26	BB	1267	U	C5-C6	5.20	1.38	1.34
26	BB	1499	C	N1-C6	-5.20	1.34	1.37
26	BB	1917	PSU	O3'-P	5.20	1.67	1.61
26	BB	2748	A	C6-N1	5.20	1.39	1.35
26	BB	2838	G	N3-C4	5.20	1.39	1.35
1	AA	1063	C	N1-C6	-5.19	1.34	1.37
2	AB	7	G	N7-C5	-5.19	1.36	1.39
4	AD	59	A	N7-C5	-5.19	1.36	1.39
26	BB	7	G	N9-C8	5.19	1.41	1.37
26	BB	107	G	C6-O6	5.19	1.28	1.24
26	BB	2065	C	C1'-N1	5.19	1.56	1.48
26	BB	2118	U	C4'-O4'	-5.19	1.38	1.45
1	AA	195	A	C6-N1	5.19	1.39	1.35
1	AA	239	U	N1-C6	-5.19	1.33	1.38
1	AA	457	G	C8-N7	-5.19	1.27	1.30
1	AA	1053	G	C4'-O4'	-5.19	1.38	1.45
1	AA	1134	G	C5-C4	-5.19	1.34	1.38
1	AA	1142	G	C2-N3	5.19	1.36	1.32
1	AA	1239	A	C5'-C4'	5.19	1.57	1.51
3	AC	33	A	C4'-C3'	5.19	1.58	1.53
26	BB	43	G	C2-N3	5.19	1.36	1.32
26	BB	1419	A	P-O5'	5.19	1.65	1.59
26	BB	1568	G	C3'-C2'	5.19	1.58	1.52
26	BB	1905	C	P-O5'	5.19	1.65	1.59
26	BB	2250	G	P-O5'	5.19	1.65	1.59
26	BB	2395	C	C5-C6	5.19	1.38	1.34
26	BB	2418	A	C3'-O3'	-5.19	1.34	1.42
26	BB	2722	G	N9-C4	-5.19	1.33	1.38
1	AA	182	A	C2-N3	5.19	1.38	1.33
1	AA	223	A	C8-N7	-5.19	1.27	1.31
1	AA	654	G	C5-C4	-5.19	1.34	1.38
1	AA	891	U	N1-C6	5.19	1.42	1.38
1	AA	1485	U	C4'-O4'	-5.19	1.38	1.45
2	AB	11	U	N1-C6	5.19	1.42	1.38
26	BB	68	G	C2'-C1'	-5.19	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	213	A	N7-C5	-5.19	1.36	1.39
26	BB	266	G	N9-C4	5.19	1.42	1.38
26	BB	734	A	C6-N1	5.19	1.39	1.35
26	BB	834	G	N7-C5	-5.19	1.36	1.39
26	BB	1271	G	C3'-C2'	-5.19	1.47	1.52
26	BB	1453	A	C6-N6	-5.19	1.29	1.33
26	BB	1789	A	N3-C4	5.19	1.38	1.34
26	BB	1803	A	C6-N1	-5.19	1.31	1.35
26	BB	1847	A	C6-N6	5.19	1.38	1.33
26	BB	2079	U	N3-C4	5.19	1.43	1.38
26	BB	2205	A	C8-N7	-5.19	1.27	1.31
26	BB	2691	C	C5'-C4'	5.19	1.57	1.51
26	BB	2820	A	C8-N7	-5.19	1.27	1.31
2	AB	67	G	O3'-P	5.19	1.67	1.61
25	BA	37	C	N1-C6	5.19	1.40	1.37
26	BB	1337	G	N7-C5	-5.19	1.36	1.39
26	BB	1490	A	C6-N1	5.19	1.39	1.35
26	BB	1665	A	C2'-C1'	5.19	1.59	1.53
1	AA	450	G	C2'-O2'	5.19	1.48	1.41
1	AA	646	G	O3'-P	5.19	1.67	1.61
1	AA	753	A	N9-C8	-5.19	1.33	1.37
26	BB	801	G	C4'-C3'	-5.19	1.47	1.52
26	BB	913	U	C3'-C2'	5.19	1.58	1.52
26	BB	1066	U	C2-O2	5.19	1.27	1.22
26	BB	1288	G	C3'-O3'	5.19	1.49	1.42
26	BB	1499	C	C4-C5	5.19	1.47	1.43
26	BB	1571	A	C4'-C3'	5.19	1.58	1.53
26	BB	1784	A	N9-C4	-5.19	1.34	1.37
26	BB	1797	G	N1-C2	5.19	1.42	1.37
26	BB	2042	A	N3-C4	5.19	1.38	1.34
26	BB	2732	G	C5-C4	-5.19	1.34	1.38
1	AA	1431	A	N7-C5	-5.19	1.36	1.39
26	BB	1232	G	C4'-C3'	-5.19	1.47	1.52
26	BB	2384	U	C2-N3	5.19	1.41	1.37
1	AA	48	C	C2-N3	5.18	1.39	1.35
1	AA	181	A	C6-N1	-5.18	1.31	1.35
1	AA	570	G	C5'-C4'	5.18	1.57	1.51
1	AA	645	G	C2'-C1'	5.18	1.59	1.53
1	AA	694	A	O3'-P	5.18	1.67	1.61
2	AB	10	G	C2-N2	-5.18	1.29	1.34
25	BA	69	G	N3-C4	5.18	1.39	1.35
26	BB	592	A	P-O5'	5.18	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	669	G	C4'-C3'	-5.18	1.47	1.52
26	BB	789	A	C6-N1	-5.18	1.31	1.35
26	BB	1838	C	O4'-C1'	-5.18	1.34	1.41
26	BB	2245	U	C5-C6	5.18	1.38	1.34
26	BB	2425	A	N1-C2	5.18	1.39	1.34
26	BB	2778	A	N3-C4	-5.18	1.31	1.34
1	AA	1017	U	N1-C2	5.18	1.43	1.38
4	AD	3	C	C4'-O4'	-5.18	1.38	1.45
25	BA	30	C	C4-C5	5.18	1.47	1.43
26	BB	156	A	N1-C2	-5.18	1.29	1.34
26	BB	262	A	C2'-C1'	5.18	1.59	1.53
26	BB	401	A	N1-C2	-5.18	1.29	1.34
26	BB	1416	G	C2-N2	5.18	1.39	1.34
26	BB	1569	A	C2'-C1'	-5.18	1.47	1.53
26	BB	1795	C	C4-N4	5.18	1.38	1.33
26	BB	1881	C	C4'-O4'	-5.18	1.38	1.45
26	BB	1914	C	C5-C6	5.18	1.38	1.34
26	BB	1924	C	C2-O2	-5.18	1.19	1.24
26	BB	2750	A	C2'-C1'	5.18	1.59	1.53
1	AA	695	A	C5'-C4'	5.18	1.57	1.51
25	BA	4	C	C5-C6	5.18	1.38	1.34
26	BB	826	U	O3'-P	5.18	1.67	1.61
26	BB	2157	G	C5-C4	5.18	1.42	1.38
26	BB	2372	U	C2-O2	-5.18	1.17	1.22
1	AA	387	U	C5-C6	5.18	1.38	1.34
1	AA	474	G	C6-N1	5.18	1.43	1.39
1	AA	542	G	C6-N1	5.18	1.43	1.39
26	BB	127	A	O3'-P	-5.18	1.54	1.61
26	BB	407	G	C5'-C4'	-5.18	1.45	1.51
26	BB	889	C	C2'-C1'	-5.18	1.47	1.53
26	BB	1370	C	C2-N3	5.18	1.39	1.35
26	BB	1521	G	C3'-C2'	5.18	1.58	1.52
26	BB	1616	A	P-O5'	5.18	1.65	1.59
26	BB	1680	U	C4-O4	5.18	1.27	1.23
26	BB	1788	C	C4'-C3'	-5.18	1.47	1.52
26	BB	2768	U	C4'-O4'	-5.18	1.38	1.45
26	BB	2845	U	N3-C4	5.18	1.43	1.38
1	AA	975	A	N3-C4	5.18	1.38	1.34
26	BB	569	U	C4'-O4'	-5.18	1.38	1.45
26	BB	2145	C	P-O5'	5.18	1.65	1.59
26	BB	2861	U	O4'-C1'	5.18	1.48	1.41
1	AA	805	C	C5-C6	5.18	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1091	U	C2-N3	5.18	1.41	1.37
1	AA	1265	C	C5-C6	5.18	1.38	1.34
1	AA	1355	G	C5'-C4'	5.18	1.57	1.51
26	BB	1011	G	P-O5'	-5.18	1.54	1.59
26	BB	1330	C	C4-C5	5.18	1.47	1.43
26	BB	1579	A	O3'-P	5.18	1.67	1.61
26	BB	2014	A	C4'-C3'	5.18	1.58	1.53
54	B3	33	SER	CA-CB	5.18	1.60	1.52
1	AA	85	U	P-O5'	5.17	1.65	1.59
1	AA	222	C	C2'-O2'	5.17	1.48	1.41
1	AA	387	U	N3-C4	5.17	1.43	1.38
1	AA	394	G	N1-C2	5.17	1.41	1.37
1	AA	822	U	C4-O4	5.17	1.27	1.23
1	AA	1153	G	C6-N1	5.17	1.43	1.39
26	BB	270	A	C2-N3	-5.17	1.28	1.33
26	BB	1655	A	C5-C6	5.17	1.45	1.41
26	BB	2486	C	C2-N3	5.17	1.39	1.35
26	BB	2650	U	P-O5'	5.17	1.65	1.59
1	AA	607	A	C6-N1	-5.17	1.31	1.35
1	AA	1130	A	C2'-C1'	-5.17	1.47	1.53
26	BB	1333	G	P-O5'	5.17	1.65	1.59
26	BB	1440	U	C4-O4	5.17	1.27	1.23
26	BB	1503	A	C8-N7	-5.17	1.27	1.31
26	BB	1570	A	C3'-C2'	5.17	1.58	1.52
26	BB	1740	G	N9-C4	5.17	1.42	1.38
26	BB	1791	A	N3-C4	5.17	1.38	1.34
26	BB	2400	G	N7-C5	-5.17	1.36	1.39
1	AA	417	G	C6-N1	5.17	1.43	1.39
1	AA	482	A	N9-C8	5.17	1.41	1.37
1	AA	1275	A	C4'-C3'	5.17	1.58	1.53
26	BB	1062	G	C2-N2	-5.17	1.29	1.34
26	BB	1884	G	N9-C8	-5.17	1.34	1.37
26	BB	2568	U	C2-N3	5.17	1.41	1.37
33	BI	88	GLY	CA-C	5.17	1.60	1.51
1	AA	47	C	O4'-C1'	5.17	1.48	1.41
1	AA	532	A	C2-N3	-5.17	1.28	1.33
26	BB	628	G	C4'-C3'	5.17	1.58	1.53
26	BB	1554	U	N1-C2	5.17	1.43	1.38
26	BB	2107	G	N1-C2	5.17	1.41	1.37
1	AA	748	G	C6-N1	-5.17	1.35	1.39
1	AA	763	G	N9-C8	-5.17	1.34	1.37
1	AA	1394	A	C6-N6	5.17	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	102	G	N9-C4	-5.17	1.33	1.38
26	BB	443	A	C4'-C3'	5.17	1.58	1.53
26	BB	1142	A	C4'-O4'	-5.17	1.38	1.45
26	BB	1365	A	C5-C4	-5.17	1.35	1.38
26	BB	2231	U	C2-N3	5.17	1.41	1.37
26	BB	2327	A	N3-C4	5.17	1.38	1.34
26	BB	2696	U	C4-O4	5.17	1.27	1.23
26	BB	2870	C	P-O5'	5.17	1.65	1.59
1	AA	56	U	C2'-O2'	5.17	1.48	1.41
1	AA	129	A	N3-C4	-5.17	1.31	1.34
1	AA	411	A	N1-C2	-5.17	1.29	1.34
1	AA	564	C	N3-C4	5.17	1.37	1.33
1	AA	649	A	C8-N7	5.17	1.35	1.31
1	AA	999	C	C5'-C4'	5.17	1.57	1.51
1	AA	1150	A	C4'-O4'	-5.17	1.38	1.45
26	BB	8	C	N3-C4	5.17	1.37	1.33
26	BB	325	G	C8-N7	-5.17	1.27	1.30
26	BB	404	A	C2'-O2'	5.17	1.48	1.41
26	BB	750	A	N9-C4	-5.17	1.34	1.37
26	BB	1171	G	C2-N3	5.17	1.36	1.32
26	BB	1972	G	O3'-P	-5.17	1.54	1.61
26	BB	179	C	C3'-C2'	5.17	1.58	1.52
26	BB	242	G	C2'-C1'	-5.17	1.47	1.53
26	BB	1081	U	C5'-C4'	5.17	1.57	1.51
26	BB	1090	A	N3-C4	5.17	1.38	1.34
26	BB	1143	A	C5-C6	5.17	1.45	1.41
26	BB	1645	G	N9-C8	-5.17	1.34	1.37
26	BB	1729	U	N3-C4	5.17	1.43	1.38
26	BB	2164	C	C5-C6	5.17	1.38	1.34
26	BB	2374	C	N1-C2	5.17	1.45	1.40
26	BB	2396	G	C5'-C4'	5.17	1.57	1.51
1	AA	847	G	N3-C4	5.16	1.39	1.35
1	AA	1184	G	C3'-C2'	5.16	1.58	1.52
1	AA	1264	U	C4-O4	5.16	1.27	1.23
14	AN	26	PHE	CE1-CZ	5.16	1.47	1.37
26	BB	461	C	P-O5'	5.16	1.65	1.59
26	BB	938	G	C4'-O4'	-5.16	1.38	1.45
26	BB	2402	U	C2-O2	5.16	1.26	1.22
26	BB	2478	A	O3'-P	5.16	1.67	1.61
26	BB	2596	U	C4-O4	5.16	1.27	1.23
39	BO	16	ARG	CZ-NH1	-5.16	1.26	1.33
1	AA	1231	G	N7-C5	5.16	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	233	A	O3'-P	5.16	1.67	1.61
26	BB	907	G	N3-C4	5.16	1.39	1.35
26	BB	922	C	C2'-O2'	5.16	1.48	1.41
26	BB	1261	C	P-O5'	5.16	1.65	1.59
26	BB	1606	C	N1-C6	5.16	1.40	1.37
26	BB	2318	G	N1-C2	5.16	1.41	1.37
26	BB	2528	U	C5-C6	5.16	1.38	1.34
26	BB	2808	G	P-O5'	5.16	1.65	1.59
1	AA	134	G	N7-C5	-5.16	1.36	1.39
1	AA	229	U	N3-C4	5.16	1.43	1.38
1	AA	348	G	C4'-C3'	-5.16	1.47	1.52
1	AA	693	G	C6-O6	-5.16	1.19	1.24
1	AA	801	U	O4'-C1'	5.16	1.48	1.41
1	AA	1067	A	C6-N6	5.16	1.38	1.33
1	AA	1349	A	N1-C2	-5.16	1.29	1.34
26	BB	393	C	N3-C4	5.16	1.37	1.33
26	BB	470	A	C4'-O4'	-5.16	1.38	1.45
26	BB	660	C	C5-C6	-5.16	1.30	1.34
26	BB	1985	C	C3'-C2'	5.16	1.58	1.52
26	BB	2808	G	C2'-C1'	-5.16	1.47	1.53
28	BD	82	TYR	CE2-CZ	5.16	1.45	1.38
1	AA	309	A	C3'-C2'	5.16	1.58	1.52
1	AA	389	A	C4'-O4'	-5.16	1.38	1.45
1	AA	431	A	N9-C8	-5.16	1.33	1.37
1	AA	1317	C	C2-O2	5.16	1.29	1.24
1	AA	1334	G	C3'-C2'	-5.16	1.47	1.52
1	AA	1486	G	P-O5'	5.16	1.65	1.59
3	AC	28	U	N1-C6	5.16	1.42	1.38
25	BA	60	C	P-O5'	5.16	1.65	1.59
26	BB	132	G	C3'-C2'	5.16	1.58	1.52
26	BB	810	U	N3-C4	5.16	1.43	1.38
26	BB	888	C	C2-N3	5.16	1.39	1.35
26	BB	1379	U	N1-C2	-5.16	1.33	1.38
26	BB	1419	A	C4'-C3'	5.16	1.58	1.53
26	BB	1921	G	C2-N3	5.16	1.36	1.32
26	BB	1979	U	P-O5'	-5.16	1.54	1.59
26	BB	2050	C	C2'-C1'	5.16	1.59	1.53
26	BB	2305	U	C4-C5	5.16	1.48	1.43
26	BB	2712	C	C4-C5	5.16	1.47	1.43
26	BB	2741	A	N7-C5	5.16	1.42	1.39
26	BB	2808	G	C5-C4	-5.16	1.34	1.38
1	AA	578	C	C2'-C1'	5.16	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	601	G	C4'-C3'	5.16	1.58	1.53
26	BB	1051	G	N3-C4	5.16	1.39	1.35
26	BB	1094	U	N1-C6	5.16	1.42	1.38
26	BB	1547	C	C3'-C2'	5.16	1.58	1.52
26	BB	1751	U	C2-N3	-5.16	1.34	1.37
35	BK	66	PHE	CE2-CZ	5.16	1.47	1.37
1	AA	364	A	C2'-O2'	5.16	1.48	1.41
1	AA	670	G	N9-C4	5.16	1.42	1.38
1	AA	727	G	C4'-O4'	-5.16	1.38	1.45
1	AA	1074	G	C5-C4	-5.16	1.34	1.38
1	AA	1362	A	P-O5'	5.16	1.65	1.59
3	AC	54	U	N1-C2	5.16	1.43	1.38
26	BB	1752	C	C4'-O4'	-5.16	1.38	1.45
26	BB	2511	U	N3-C4	5.16	1.43	1.38
26	BB	2672	U	C3'-C2'	5.16	1.58	1.52
26	BB	2804	U	P-O5'	5.16	1.65	1.59
1	AA	326	G	C5-C6	5.15	1.47	1.42
1	AA	478	A	P-O5'	5.15	1.65	1.59
1	AA	1124	G	C2-N3	5.15	1.36	1.32
1	AA	1189	U	N1-C6	5.15	1.42	1.38
4	AD	66	C	C4-N4	5.15	1.38	1.33
25	BA	104	A	N9-C8	5.15	1.41	1.37
26	BB	1431	A	O4'-C1'	-5.15	1.34	1.41
26	BB	2430	A	C4'-O4'	-5.15	1.38	1.45
26	BB	2453	A	C6-N6	5.15	1.38	1.33
26	BB	2775	G	N9-C4	5.15	1.42	1.38
1	AA	554	A	C4'-O4'	-5.15	1.38	1.45
1	AA	1047	G	C5-C4	-5.15	1.34	1.38
1	AA	1089	G	C2-N2	-5.15	1.29	1.34
4	AD	23	G	C4'-O4'	-5.15	1.38	1.45
26	BB	135	U	O3'-P	5.15	1.67	1.61
26	BB	164	C	C2-O2	-5.15	1.19	1.24
26	BB	737	C	P-O5'	5.15	1.65	1.59
26	BB	957	C	C4'-O4'	-5.15	1.38	1.45
26	BB	1140	C	C2'-C1'	5.15	1.59	1.53
26	BB	1268	A	C4'-O4'	-5.15	1.38	1.45
26	BB	1871	A	C4'-C3'	5.15	1.58	1.53
26	BB	2649	C	C2'-C1'	5.15	1.59	1.53
26	BB	2826	A	O4'-C1'	5.15	1.48	1.41
26	BB	2853	C	O4'-C1'	5.15	1.48	1.41
1	AA	375	U	C2-N3	5.15	1.41	1.37
1	AA	633	G	C8-N7	-5.15	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	699	C	N1-C2	5.15	1.45	1.40
1	AA	920	U	P-O5'	-5.15	1.54	1.59
1	AA	1013	G	P-O5'	5.15	1.65	1.59
1	AA	1068	G	C3'-O3'	-5.15	1.34	1.42
1	AA	1078	U	P-O5'	5.15	1.65	1.59
1	AA	1411	C	C4-C5	5.15	1.47	1.43
3	AC	32	U	O4'-C1'	5.15	1.48	1.41
26	BB	58	G	N7-C5	5.15	1.42	1.39
26	BB	775	G	C4'-C3'	-5.15	1.47	1.52
26	BB	2232	C	P-O5'	5.15	1.65	1.59
26	BB	2549	G	N3-C4	5.15	1.39	1.35
26	BB	2690	U	C2-N3	5.15	1.41	1.37
1	AA	417	G	C6-O6	5.15	1.28	1.24
1	AA	810	C	C5-C6	5.15	1.38	1.34
1	AA	878	A	N9-C8	5.15	1.41	1.37
26	BB	1474	U	O3'-P	5.15	1.67	1.61
26	BB	2358	A	P-O5'	5.15	1.64	1.59
1	AA	112	G	C6-O6	-5.15	1.19	1.24
1	AA	179	A	C8-N7	-5.15	1.27	1.31
1	AA	225	C	C1'-N1	5.15	1.56	1.48
1	AA	272	C	P-O5'	5.15	1.64	1.59
1	AA	490	C	C3'-C2'	-5.15	1.47	1.52
1	AA	845	A	O4'-C1'	5.15	1.48	1.41
1	AA	976	G	C2-N3	5.15	1.36	1.32
17	AQ	67	GLY	N-CA	-5.15	1.38	1.46
26	BB	54	G	C8-N7	5.15	1.34	1.30
26	BB	677	A	N9-C4	-5.15	1.34	1.37
26	BB	1086	A	N7-C5	-5.15	1.36	1.39
26	BB	1532	A	N9-C4	5.15	1.41	1.37
26	BB	1832	C	N1-C2	5.15	1.45	1.40
26	BB	1903	G	C2-N3	5.15	1.36	1.32
49	BY	25	PHE	CG-CD1	5.15	1.46	1.38
1	AA	561	U	C4-C5	5.15	1.48	1.43
1	AA	960	U	C2'-C1'	5.15	1.59	1.53
26	BB	2398	U	C2'-C1'	5.15	1.59	1.53
1	AA	105	G	C5-C4	-5.14	1.34	1.38
1	AA	850	U	C4-C5	5.14	1.48	1.43
1	AA	1341	U	N1-C2	5.14	1.43	1.38
1	AA	1358	U	C2-O2	-5.14	1.17	1.22
3	AC	13	A	C5'-C4'	5.14	1.57	1.51
4	AD	35	C	O4'-C1'	5.14	1.48	1.41
26	BB	704	G	N7-C5	5.14	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1813	G	C4'-C3'	5.14	1.58	1.53
26	BB	2150	C	C5-C6	5.14	1.38	1.34
26	BB	2407	A	C2-N3	-5.14	1.28	1.33
1	AA	112	G	C5-C4	5.14	1.42	1.38
1	AA	470	C	O3'-P	5.14	1.67	1.61
2	AB	12	U	C4'-O4'	-5.14	1.38	1.45
25	BA	102	G	C3'-C2'	5.14	1.58	1.52
26	BB	347	A	C4'-O4'	-5.14	1.38	1.45
26	BB	643	A	C2'-O2'	-5.14	1.34	1.41
26	BB	711	G	C6-O6	-5.14	1.19	1.24
26	BB	851	C	C4'-O4'	-5.14	1.38	1.45
26	BB	912	C	C3'-O3'	-5.14	1.34	1.42
26	BB	1514	G	C8-N7	-5.14	1.27	1.30
26	BB	2227	A	C5-C6	5.14	1.45	1.41
1	AA	18	C	C5'-C4'	5.14	1.57	1.51
1	AA	1195	C	N3-C4	5.14	1.37	1.33
1	AA	1471	U	C5-C6	5.14	1.38	1.34
26	BB	498	G	C4'-C3'	5.14	1.58	1.53
26	BB	1360	G	N3-C4	5.14	1.39	1.35
26	BB	2511	U	N1-C6	5.14	1.42	1.38
1	AA	106	C	N3-C4	5.14	1.37	1.33
1	AA	370	C	C5-C6	5.14	1.38	1.34
1	AA	435	A	C2'-O2'	5.14	1.48	1.41
1	AA	462	G	C4'-O4'	-5.14	1.38	1.45
1	AA	630	A	C3'-C2'	-5.14	1.47	1.52
1	AA	772	U	C5'-C4'	5.14	1.57	1.51
1	AA	1081	A	C4'-C3'	5.14	1.58	1.53
1	AA	1112	C	C4'-C3'	5.14	1.58	1.53
1	AA	1294	G	N7-C5	5.14	1.42	1.39
1	AA	1423	G	C5'-C4'	5.14	1.57	1.51
1	AA	1428	A	C6-N6	5.14	1.38	1.33
5	AE	76	SER	CA-CB	5.14	1.60	1.52
26	BB	797	G	N7-C5	-5.14	1.36	1.39
26	BB	1682	G	C6-N1	5.14	1.43	1.39
26	BB	2279	G	C5-C6	5.14	1.47	1.42
26	BB	211	C	N3-C4	5.14	1.37	1.33
26	BB	310	A	C6-N6	-5.14	1.29	1.33
26	BB	728	G	O3'-P	5.14	1.67	1.61
26	BB	2086	U	C3'-C2'	-5.14	1.47	1.52
1	AA	103	U	C5'-C4'	5.14	1.57	1.51
1	AA	240	G	N7-C5	5.14	1.42	1.39
1	AA	351	G	C6-O6	5.14	1.28	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	472	U	C3'-C2'	5.14	1.58	1.52
4	AD	19	G	C2-N3	5.14	1.36	1.32
26	BB	529	A	O3'-P	5.14	1.67	1.61
26	BB	541	A	N1-C2	-5.14	1.29	1.34
26	BB	767	U	C1'-N1	5.14	1.56	1.48
26	BB	1094	U	C2-O2	5.14	1.26	1.22
26	BB	1995	U	C5'-C4'	5.14	1.57	1.51
26	BB	2639	A	N1-C2	5.14	1.39	1.34
1	AA	130	A	N7-C5	-5.13	1.36	1.39
1	AA	358	U	C2'-C1'	-5.13	1.47	1.53
1	AA	537	G	C4'-O4'	-5.13	1.38	1.45
1	AA	1026	G	N1-C2	-5.13	1.33	1.37
1	AA	1375	A	N1-C2	5.13	1.39	1.34
1	AA	1418	A	C4'-C3'	5.13	1.58	1.53
6	AF	178	ARG	NE-CZ	5.13	1.39	1.33
26	BB	39	G	C8-N7	-5.13	1.27	1.30
26	BB	409	G	C8-N7	-5.13	1.27	1.30
26	BB	613	A	O3'-P	5.13	1.67	1.61
26	BB	753	A	C5'-C4'	5.13	1.57	1.51
26	BB	1086	A	N9-C8	-5.13	1.33	1.37
26	BB	1227	G	O3'-P	5.13	1.67	1.61
26	BB	1501	G	C2-N3	5.13	1.36	1.32
26	BB	1672	A	C6-N1	5.13	1.39	1.35
26	BB	1909	C	C2-O2	-5.13	1.19	1.24
26	BB	2432	A	N7-C5	5.13	1.42	1.39
26	BB	2732	G	C3'-C2'	-5.13	1.47	1.52
1	AA	149	A	P-O5'	5.13	1.64	1.59
1	AA	1159	U	O5'-C5'	-5.13	1.34	1.42
2	AB	49	G	O3'-P	-5.13	1.54	1.61
26	BB	2018	G	C2-N3	5.13	1.36	1.32
26	BB	2770	G	N7-C5	-5.13	1.36	1.39
1	AA	481	G	N9-C4	5.13	1.42	1.38
26	BB	315	G	C3'-C2'	-5.13	1.47	1.52
26	BB	669	G	C3'-O3'	5.13	1.49	1.42
26	BB	965	C	C4-C5	-5.13	1.38	1.43
26	BB	1579	A	N9-C4	5.13	1.41	1.37
26	BB	2084	C	N1-C6	5.13	1.40	1.37
26	BB	2131	U	C2'-O2'	5.13	1.48	1.41
26	BB	2481	G	C5'-C4'	5.13	1.57	1.51
26	BB	2857	G	N7-C5	-5.13	1.36	1.39
1	AA	1033	G	N3-C4	5.13	1.39	1.35
1	AA	1322	C	O3'-P	-5.13	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	306	U	C3'-C2'	5.13	1.58	1.52
26	BB	839	U	C5'-C4'	5.13	1.57	1.51
26	BB	2383	G	N1-C2	5.13	1.41	1.37
26	BB	2788	C	O3'-P	5.13	1.67	1.61
1	AA	567	G	C2-N3	5.13	1.36	1.32
1	AA	820	U	C5'-C4'	5.13	1.57	1.51
1	AA	1106	G	C2-N3	5.13	1.36	1.32
17	AQ	69	PRO	N-CD	5.13	1.55	1.47
26	BB	1181	U	P-O5'	5.13	1.64	1.59
26	BB	2094	A	C3'-C2'	5.13	1.58	1.52
26	BB	2270	A	C2'-C1'	-5.13	1.47	1.53
26	BB	2354	C	C2-N3	5.13	1.39	1.35
26	BB	2505	G	C3'-C2'	5.13	1.58	1.52
26	BB	2544	G	C5-C4	5.13	1.42	1.38
26	BB	2563	U	C3'-C2'	5.13	1.58	1.52
1	AA	137	U	N1-C6	5.13	1.42	1.38
1	AA	1019	A	C4'-C3'	-5.13	1.47	1.52
1	AA	1398	A	C6-N1	-5.13	1.31	1.35
26	BB	332	A	N1-C2	5.13	1.39	1.34
26	BB	599	A	C5'-C4'	5.13	1.57	1.51
26	BB	1203	U	N3-C4	5.13	1.43	1.38
26	BB	1337	G	C5-C4	-5.13	1.34	1.38
26	BB	2294	G	N3-C4	-5.13	1.31	1.35
26	BB	2512	C	C3'-C2'	-5.13	1.47	1.52
32	BH	93	TYR	CA-C	5.13	1.66	1.52
1	AA	502	A	C3'-C2'	-5.12	1.47	1.52
1	AA	1104	G	N7-C5	-5.12	1.36	1.39
1	AA	1106	G	C2-N2	-5.12	1.29	1.34
1	AA	1246	A	C5-C4	-5.12	1.35	1.38
1	AA	1328	C	C5-C6	5.12	1.38	1.34
25	BA	76	G	N9-C8	-5.12	1.34	1.37
26	BB	791	C	C3'-C2'	5.12	1.58	1.52
26	BB	1215	G	C5'-C4'	5.12	1.57	1.51
26	BB	1427	A	O4'-C1'	5.12	1.48	1.41
26	BB	1580	A	N7-C5	-5.12	1.36	1.39
26	BB	2511	U	O3'-P	5.12	1.67	1.61
1	AA	61	G	C4'-O4'	-5.12	1.38	1.45
1	AA	484	G	N9-C8	5.12	1.41	1.37
1	AA	1220	G	C2'-O2'	-5.12	1.34	1.41
16	AP	58	GLU	CD-OE1	-5.12	1.20	1.25
26	BB	69	C	C3'-C2'	5.12	1.58	1.52
26	BB	363	G	C6-N1	5.12	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1074	G	C4'-O4'	-5.12	1.38	1.45
26	BB	1299	G	C5'-C4'	5.12	1.57	1.51
26	BB	2036	C	C4'-O4'	-5.12	1.38	1.45
26	BB	2491	U	C1'-N1	5.12	1.56	1.48
26	BB	2542	A	C5'-C4'	5.12	1.57	1.51
26	BB	2630	G	C6-N1	5.12	1.43	1.39
1	AA	79	G	P-O5'	5.12	1.64	1.59
1	AA	814	A	C2-N3	5.12	1.38	1.33
1	AA	1149	C	C5'-C4'	5.12	1.57	1.51
1	AA	1292	G	N1-C2	5.12	1.41	1.37
26	BB	631	A	C8-N7	-5.12	1.27	1.31
26	BB	1853	A	O4'-C1'	5.12	1.48	1.41
26	BB	2280	G	C5-C6	5.12	1.47	1.42
26	BB	2747	G	N7-C5	5.12	1.42	1.39
26	BB	917	A	C2'-C1'	-5.12	1.47	1.53
26	BB	1615	C	O4'-C1'	5.12	1.48	1.41
26	BB	1677	A	C6-N1	-5.12	1.31	1.35
26	BB	2187	U	C2'-O2'	5.12	1.48	1.41
26	BB	2600	A	P-O5'	5.12	1.64	1.59
26	BB	2903	U	C1'-N1	5.12	1.56	1.48
1	AA	157	U	C4-C5	5.12	1.48	1.43
1	AA	191	G	C3'-O3'	-5.12	1.34	1.42
1	AA	451	A	C5-C4	-5.12	1.35	1.38
1	AA	925	G	C5'-C4'	5.12	1.57	1.51
1	AA	1187	G	O3'-P	5.12	1.67	1.61
26	BB	103	A	C8-N7	-5.12	1.27	1.31
26	BB	711	G	N3-C4	-5.12	1.31	1.35
26	BB	741	U	C4-C5	5.12	1.48	1.43
26	BB	794	A	N9-C4	5.12	1.41	1.37
26	BB	919	U	C4-C5	5.12	1.48	1.43
26	BB	934	U	O4'-C1'	5.12	1.48	1.41
26	BB	1122	G	C5'-C4'	5.12	1.57	1.51
26	BB	1359	A	C2'-C1'	5.12	1.58	1.53
26	BB	1499	C	C5-C6	5.12	1.38	1.34
26	BB	1734	G	O4'-C1'	5.12	1.48	1.41
26	BB	2476	A	C4'-C3'	5.12	1.58	1.53
26	BB	2717	C	N1-C2	5.12	1.45	1.40
32	BH	54	ARG	NE-CZ	5.12	1.39	1.33
32	BH	153	PRO	N-CD	5.12	1.55	1.47
1	AA	89	U	C4'-O4'	-5.12	1.38	1.45
1	AA	802	A	C4'-C3'	-5.12	1.47	1.52
26	BB	1540	G	C4'-O4'	-5.12	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1662	U	O3'-P	5.12	1.67	1.61
26	BB	1905	C	N1-C6	5.12	1.40	1.37
26	BB	2028	U	N1-C2	5.12	1.43	1.38
26	BB	2513	A	P-O5'	5.12	1.64	1.59
3	AC	39	U	C4-C5	5.12	1.48	1.43
13	AM	27	GLU	CB-CG	5.12	1.61	1.52
25	BA	31	C	O3'-P	5.12	1.67	1.61
26	BB	322	A	P-OP2	-5.12	1.40	1.49
26	BB	391	A	N7-C5	-5.12	1.36	1.39
26	BB	416	U	C4-C5	5.12	1.48	1.43
26	BB	523	C	N3-C4	5.12	1.37	1.33
26	BB	599	A	N9-C4	5.12	1.41	1.37
26	BB	702	U	C4-C5	5.12	1.48	1.43
26	BB	999	U	C4'-C3'	5.12	1.58	1.53
26	BB	1403	A	N7-C5	-5.12	1.36	1.39
26	BB	1772	A	N9-C8	5.12	1.41	1.37
26	BB	1792	G	C4'-O4'	-5.12	1.39	1.45
26	BB	2254	C	N1-C6	5.12	1.40	1.37
26	BB	2276	G	C3'-C2'	5.12	1.58	1.52
26	BB	2681	C	C4-C5	5.12	1.47	1.43
1	AA	783	C	C2'-C1'	5.11	1.58	1.53
1	AA	916	U	P-O5'	5.11	1.64	1.59
26	BB	33	C	C2-N3	5.11	1.39	1.35
26	BB	127	A	C8-N7	-5.11	1.27	1.31
26	BB	489	G	O3'-P	5.11	1.67	1.61
26	BB	1326	U	C2'-O2'	-5.11	1.35	1.41
26	BB	1593	A	C4'-O4'	-5.11	1.39	1.45
26	BB	1693	U	C5'-C4'	5.11	1.57	1.51
26	BB	1888	G	N9-C8	-5.11	1.34	1.37
26	BB	2012	G	N7-C5	-5.11	1.36	1.39
26	BB	2082	A	C8-N7	-5.11	1.27	1.31
26	BB	2409	G	C2-N3	5.11	1.36	1.32
26	BB	2714	G	C2-N2	-5.11	1.29	1.34
1	AA	211	G	C3'-O3'	5.11	1.49	1.42
1	AA	940	C	C2'-C1'	5.11	1.58	1.53
1	AA	1211	U	O5'-C5'	-5.11	1.34	1.42
1	AA	1253	G	N1-C2	5.11	1.41	1.37
1	AA	1374	A	C5'-C4'	5.11	1.57	1.51
1	AA	1443	C	C4-N4	-5.11	1.29	1.33
3	AC	51	C	C2-N3	5.11	1.39	1.35
26	BB	1902	C	C5-C6	5.11	1.38	1.34
26	BB	1926	U	C4-O4	-5.11	1.19	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2654	A	C5-C4	-5.11	1.35	1.38
26	BB	2882	A	N9-C8	-5.11	1.33	1.37
1	AA	1157	A	N3-C4	5.11	1.38	1.34
1	AA	1371	G	C2'-O2'	-5.11	1.35	1.41
4	AD	50	G	N1-C2	5.11	1.41	1.37
26	BB	314	C	C2'-O2'	-5.11	1.35	1.41
26	BB	411	G	N3-C4	-5.11	1.31	1.35
26	BB	733	G	C8-N7	5.11	1.34	1.30
26	BB	1206	G	C2-N2	5.11	1.39	1.34
26	BB	1281	G	O4'-C1'	5.11	1.48	1.41
26	BB	1705	A	C2'-C1'	-5.11	1.47	1.53
26	BB	2082	A	C5-C4	-5.11	1.35	1.38
26	BB	2098	U	C4-C5	5.11	1.48	1.43
1	AA	309	A	C8-N7	-5.11	1.27	1.31
1	AA	550	G	N3-C4	5.11	1.39	1.35
1	AA	1483	A	C5'-C4'	5.11	1.57	1.51
26	BB	159	G	O3'-P	-5.11	1.55	1.61
26	BB	2186	G	O5'-C5'	5.11	1.52	1.44
1	AA	174	A	C5-C4	-5.11	1.35	1.38
1	AA	851	G	C8-N7	-5.11	1.27	1.30
1	AA	1010	U	C2-O2	5.11	1.26	1.22
1	AA	1014	A	C8-N7	5.11	1.35	1.31
1	AA	1098	C	C5'-C4'	5.11	1.57	1.51
1	AA	1366	C	C5'-C4'	5.11	1.57	1.51
2	AB	2	G	O5'-C5'	-5.11	1.34	1.42
2	AB	76	A	C1'-N9	5.11	1.56	1.48
26	BB	34	U	N1-C6	5.11	1.42	1.38
26	BB	471	A	N3-C4	5.11	1.38	1.34
26	BB	501	A	C5'-C4'	5.11	1.57	1.51
26	BB	576	U	C2-N3	5.11	1.41	1.37
26	BB	648	G	C4'-O4'	-5.11	1.39	1.45
26	BB	1004	U	C4'-O4'	-5.11	1.39	1.45
26	BB	1060	U	C4-C5	5.11	1.48	1.43
26	BB	1448	G	O3'-P	5.11	1.67	1.61
26	BB	2011	U	C5'-C4'	5.11	1.57	1.51
26	BB	2460	U	N1-C6	5.11	1.42	1.38
26	BB	2584	U	C3'-C2'	5.11	1.58	1.52
26	BB	2890	G	C5'-C4'	5.11	1.57	1.51
31	BG	176	PHE	CE1-CZ	5.11	1.47	1.37
1	AA	300	A	N7-C5	-5.11	1.36	1.39
1	AA	356	A	N7-C5	-5.11	1.36	1.39
1	AA	633	G	C5-C6	5.11	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	916	U	O4'-C1'	-5.11	1.35	1.41
25	BA	83	G	C5-C4	5.11	1.42	1.38
26	BB	393	C	C1'-N1	5.11	1.56	1.48
26	BB	1182	G	C3'-C2'	-5.11	1.47	1.52
26	BB	1899	A	N9-C4	5.11	1.41	1.37
26	BB	2793	C	C2-N3	5.11	1.39	1.35
46	BV	52	GLU	CG-CD	5.11	1.59	1.51
1	AA	270	A	C8-N7	5.10	1.35	1.31
1	AA	1057	G	O4'-C1'	5.10	1.48	1.41
26	BB	413	C	C4-C5	5.10	1.47	1.43
26	BB	865	C	O3'-P	5.10	1.67	1.61
26	BB	1881	C	C5'-C4'	5.10	1.57	1.51
1	AA	762	U	P-O5'	5.10	1.64	1.59
1	AA	943	U	C4'-O4'	-5.10	1.39	1.45
26	BB	194	G	N7-C5	5.10	1.42	1.39
26	BB	272	A	N9-C8	5.10	1.41	1.37
26	BB	1026	G	C2-N2	5.10	1.39	1.34
26	BB	1188	U	C2-N3	5.10	1.41	1.37
26	BB	1620	G	C2-N3	5.10	1.36	1.32
26	BB	1666	G	P-O5'	5.10	1.64	1.59
26	BB	1841	U	C5'-C4'	5.10	1.57	1.51
26	BB	2072	C	O4'-C1'	5.10	1.48	1.41
26	BB	2528	U	N1-C2	5.10	1.43	1.38
1	AA	442	G	O4'-C1'	-5.10	1.35	1.41
3	AC	33	A	C5'-C4'	5.10	1.57	1.51
26	BB	770	G	C2-N3	5.10	1.36	1.32
26	BB	944	C	N1-C6	5.10	1.40	1.37
26	BB	952	G	C2-N3	5.10	1.36	1.32
26	BB	1109	C	O5'-C5'	-5.10	1.34	1.42
26	BB	1564	C	C4'-C3'	5.10	1.58	1.53
26	BB	1573	G	C2-N3	5.10	1.36	1.32
26	BB	1811	G	C6-O6	-5.10	1.19	1.24
1	AA	8	A	N7-C5	5.10	1.42	1.39
1	AA	177	G	C4'-O4'	-5.10	1.39	1.45
1	AA	566	G	C6-N1	-5.10	1.35	1.39
2	AB	66	C	O3'-P	5.10	1.67	1.61
26	BB	145	C	C5'-C4'	5.10	1.57	1.51
26	BB	554	U	C3'-C2'	5.10	1.58	1.52
26	BB	959	A	C4'-O4'	-5.10	1.39	1.45
26	BB	1090	A	C5-C6	5.10	1.45	1.41
26	BB	1644	C	C2'-C1'	5.10	1.58	1.53
26	BB	1885	A	C5-C4	-5.10	1.35	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2192	U	C4-C5	5.10	1.48	1.43
26	BB	2632	A	N3-C4	5.10	1.38	1.34
26	BB	2886	A	C8-N7	-5.10	1.27	1.31
1	AA	1496	C	O5'-C5'	-5.10	1.34	1.42
26	BB	669	G	C6-O6	-5.10	1.19	1.24
26	BB	1048	A	C6-N1	-5.10	1.31	1.35
26	BB	1196	C	C4'-C3'	-5.10	1.47	1.52
26	BB	1367	A	C8-N7	-5.10	1.27	1.31
26	BB	2581	G	N1-C2	5.10	1.41	1.37
1	AA	1055	A	N7-C5	-5.10	1.36	1.39
1	AA	1231	G	C2'-C1'	-5.10	1.47	1.53
24	AX	66	ARG	CZ-NH2	5.10	1.39	1.33
26	BB	1365	A	C5'-C4'	5.10	1.57	1.51
26	BB	1367	A	N9-C8	5.10	1.41	1.37
26	BB	1570	A	C4'-C3'	5.10	1.58	1.53
26	BB	1585	C	C2-O2	-5.10	1.19	1.24
26	BB	2237	G	N1-C2	-5.10	1.33	1.37
26	BB	2583	G	C4'-O4'	-5.10	1.39	1.45
1	AA	700	G	P-O5'	5.09	1.64	1.59
1	AA	721	G	C2'-C1'	-5.09	1.47	1.53
1	AA	990	C	N1-C2	5.09	1.45	1.40
1	AA	1202	U	C4'-O4'	-5.09	1.39	1.45
1	AA	1474	U	C4-O4	5.09	1.27	1.23
4	AD	66	C	C4'-C3'	5.09	1.58	1.53
25	BA	57	A	C8-N7	-5.09	1.27	1.31
26	BB	22	C	C4-N4	5.09	1.38	1.33
26	BB	1117	C	C5-C6	-5.09	1.30	1.34
26	BB	1537	G	C5'-C4'	5.09	1.57	1.51
26	BB	1663	G	C2-N3	5.09	1.36	1.32
26	BB	1797	G	P-O5'	5.09	1.64	1.59
26	BB	2359	C	N1-C6	5.09	1.40	1.37
36	BL	95	ARG	CZ-NH2	5.09	1.39	1.33
1	AA	59	A	N9-C4	-5.09	1.34	1.37
1	AA	459	A	P-O5'	5.09	1.64	1.59
1	AA	745	G	O4'-C1'	5.09	1.48	1.41
1	AA	1292	G	C8-N7	5.09	1.34	1.30
26	BB	880	G	C2-N3	5.09	1.36	1.32
26	BB	928	A	N3-C4	5.09	1.38	1.34
26	BB	1974	C	C5'-C4'	-5.09	1.45	1.51
26	BB	2688	G	C2'-C1'	5.09	1.58	1.53
26	BB	2802	G	N1-C2	5.09	1.41	1.37
1	AA	575	G	N9-C8	-5.09	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	802	A	O4'-C1'	5.09	1.48	1.41
1	AA	1262	C	N1-C6	-5.09	1.34	1.37
24	AX	7	GLU	CG-CD	5.09	1.59	1.51
26	BB	308	G	P-O5'	-5.09	1.54	1.59
26	BB	447	A	C5-C4	-5.09	1.35	1.38
26	BB	1245	G	C6-N1	5.09	1.43	1.39
26	BB	2249	U	C2'-O2'	-5.09	1.35	1.41
26	BB	2553	G	N1-C2	5.09	1.41	1.37
26	BB	2693	G	C2-N3	-5.09	1.28	1.32
26	BB	2738	A	N3-C4	5.09	1.38	1.34
1	AA	493	A	C6-N6	-5.09	1.29	1.33
1	AA	1012	A	N9-C8	5.09	1.41	1.37
1	AA	1290	G	C4'-C3'	-5.09	1.47	1.52
1	AA	1416	G	N1-C2	5.09	1.41	1.37
2	AB	57	G	N9-C4	5.09	1.42	1.38
26	BB	345	A	C3'-O3'	-5.09	1.35	1.42
26	BB	612	G	C5-C6	5.09	1.47	1.42
26	BB	857	G	C8-N7	5.09	1.34	1.30
26	BB	1614	A	N7-C5	5.09	1.42	1.39
26	BB	2329	U	N1-C2	5.09	1.43	1.38
26	BB	2543	G	N9-C8	-5.09	1.34	1.37
26	BB	2825	G	C4'-O4'	-5.09	1.39	1.45
1	AA	507	C	N1-C6	-5.09	1.34	1.37
1	AA	727	G	N3-C4	5.09	1.39	1.35
25	BA	39	A	C8-N7	5.09	1.35	1.31
26	BB	1371	G	O3'-P	5.09	1.67	1.61
26	BB	1530	G	N1-C2	-5.09	1.33	1.37
1	AA	85	U	C2-N3	5.09	1.41	1.37
1	AA	627	G	C6-N1	5.09	1.43	1.39
1	AA	752	G	N7-C5	5.09	1.42	1.39
1	AA	1212	U	C4-C5	5.09	1.48	1.43
4	AD	1	C	N1-C6	5.09	1.40	1.37
26	BB	78	U	P-O5'	5.09	1.64	1.59
26	BB	369	U	C2-O2	5.09	1.26	1.22
26	BB	575	A	C2-N3	-5.09	1.28	1.33
26	BB	1280	G	O4'-C1'	5.09	1.48	1.41
26	BB	1513	U	N3-C4	5.09	1.43	1.38
26	BB	1517	G	N1-C2	5.09	1.41	1.37
26	BB	1620	G	P-O5'	5.09	1.64	1.59
26	BB	1977	A	C8-N7	-5.09	1.27	1.31
26	BB	2260	C	O4'-C1'	5.09	1.48	1.41
26	BB	2283	C	C4-N4	5.09	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2696	U	C4'-O4'	-5.09	1.39	1.45
30	BF	111	GLU	CG-CD	5.09	1.59	1.51
1	AA	535	A	C6-N6	5.08	1.38	1.33
1	AA	895	G	P-O5'	5.08	1.64	1.59
1	AA	1534	A	C6-N1	-5.08	1.31	1.35
26	BB	247	G	C5'-C4'	5.08	1.57	1.51
26	BB	364	C	C2-N3	5.08	1.39	1.35
26	BB	2651	C	C4'-O4'	-5.08	1.39	1.45
1	AA	159	G	N1-C2	5.08	1.41	1.37
1	AA	410	G	C8-N7	-5.08	1.27	1.30
1	AA	614	C	C4-N4	5.08	1.38	1.33
2	AB	33	U	O4'-C1'	5.08	1.48	1.41
26	BB	144	A	N7-C5	5.08	1.42	1.39
26	BB	790	U	C1'-N1	5.08	1.56	1.48
26	BB	1006	C	C1'-N1	5.08	1.56	1.48
26	BB	1341	G	C4'-C3'	5.08	1.58	1.53
26	BB	1355	G	C6-N1	-5.08	1.35	1.39
26	BB	2480	C	C2'-C1'	-5.08	1.47	1.53
38	BN	58	TYR	CE1-CZ	5.08	1.45	1.38
1	AA	349	A	P-O5'	5.08	1.64	1.59
1	AA	470	C	P-O5'	5.08	1.64	1.59
1	AA	473	U	C4-C5	5.08	1.48	1.43
1	AA	554	A	C5'-C4'	5.08	1.57	1.51
1	AA	572	A	C5-C4	5.08	1.42	1.38
1	AA	646	G	N9-C8	-5.08	1.34	1.37
1	AA	1230	C	N1-C6	-5.08	1.34	1.37
25	BA	33	G	C4'-C3'	5.08	1.58	1.53
26	BB	2755	C	C3'-C2'	5.08	1.58	1.52
26	BB	2829	A	N1-C2	-5.08	1.29	1.34
1	AA	1012	A	N7-C5	5.08	1.42	1.39
1	AA	1401	G	C6-O6	-5.08	1.19	1.24
3	AC	25	U	C4-O4	-5.08	1.19	1.23
26	BB	508	A	C3'-C2'	5.08	1.58	1.52
26	BB	1285	A	C6-N6	5.08	1.38	1.33
26	BB	1643	G	N7-C5	-5.08	1.36	1.39
26	BB	2823	A	C5-C6	5.08	1.45	1.41
33	BI	55	GLU	CD-OE1	-5.08	1.20	1.25
1	AA	721	G	C8-N7	-5.08	1.27	1.30
1	AA	1128	C	O3'-P	-5.08	1.55	1.61
1	AA	1221	G	N3-C4	5.08	1.39	1.35
2	AB	45	U	C4'-C3'	5.08	1.58	1.53
25	BA	2	G	C4'-O4'	-5.08	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	388	G	N7-C5	-5.08	1.36	1.39
26	BB	787	C	C5'-C4'	5.08	1.57	1.51
26	BB	827	U	C3'-O3'	5.08	1.49	1.42
26	BB	1180	U	C2'-C1'	5.08	1.58	1.53
26	BB	2205	A	C5-C4	-5.08	1.35	1.38
26	BB	2608	G	C5-C4	5.08	1.42	1.38
26	BB	2709	G	N7-C5	5.08	1.42	1.39
1	AA	877	G	C8-N7	5.08	1.33	1.30
1	AA	1051	C	C5'-C4'	5.08	1.57	1.51
1	AA	1456	A	C4'-O4'	-5.08	1.39	1.45
26	BB	2433	A	N9-C4	5.08	1.40	1.37
26	BB	2524	G	C2-N3	5.08	1.36	1.32
1	AA	50	A	C3'-C2'	5.08	1.58	1.52
1	AA	804	U	C4-C5	5.08	1.48	1.43
1	AA	1365	G	C2'-C1'	5.08	1.58	1.53
1	AA	1390	U	C4'-O4'	-5.08	1.39	1.45
1	AA	1422	G	N9-C8	5.08	1.41	1.37
1	AA	1432	G	N9-C8	5.08	1.41	1.37
26	BB	323	C	P-O5'	5.08	1.64	1.59
26	BB	902	C	C4'-O4'	-5.08	1.39	1.45
26	BB	1447	C	P-O5'	-5.08	1.54	1.59
26	BB	1495	A	P-O5'	5.08	1.64	1.59
26	BB	1621	U	N1-C2	5.08	1.43	1.38
26	BB	1651	G	N3-C4	-5.08	1.31	1.35
26	BB	2788	C	C4-C5	5.08	1.47	1.43
49	BY	54	ARG	NE-CZ	5.08	1.39	1.33
1	AA	738	C	N3-C4	5.07	1.37	1.33
4	AD	72	C	P-O5'	-5.07	1.54	1.59
26	BB	332	A	C3'-C2'	5.07	1.58	1.52
26	BB	440	C	C4'-O4'	-5.07	1.39	1.45
26	BB	584	C	C5'-C4'	5.07	1.57	1.51
26	BB	852	U	C5-C6	5.07	1.38	1.34
26	BB	1122	G	P-O5'	5.07	1.64	1.59
26	BB	1179	G	O4'-C1'	5.07	1.48	1.41
26	BB	1268	A	C6-N1	5.07	1.39	1.35
26	BB	1516	G	N9-C4	5.07	1.42	1.38
26	BB	1659	G	C5'-C4'	5.07	1.57	1.51
26	BB	2337	G	N1-C2	5.07	1.41	1.37
1	AA	1294	G	C5-C4	5.07	1.42	1.38
26	BB	400	G	P-O5'	5.07	1.64	1.59
26	BB	936	A	C4'-O4'	-5.07	1.39	1.45
26	BB	1030	C	O3'-P	5.07	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2314	A	C2'-O2'	5.07	1.48	1.41
1	AA	16	A	C2-N3	5.07	1.38	1.33
1	AA	355	C	C2-O2	-5.07	1.19	1.24
1	AA	712	A	P-O5'	5.07	1.64	1.59
1	AA	1506	U	C4'-C3'	-5.07	1.47	1.52
12	AL	19	PHE	CG-CD2	5.07	1.46	1.38
25	BA	35	C	N1-C6	5.07	1.40	1.37
26	BB	803	U	O3'-P	-5.07	1.55	1.61
26	BB	875	G	C2-N3	5.07	1.36	1.32
26	BB	1340	U	C2-N3	-5.07	1.34	1.37
26	BB	1399	C	C4-C5	-5.07	1.38	1.43
26	BB	1491	G	C2-N3	5.07	1.36	1.32
26	BB	1657	U	C2-N3	5.07	1.41	1.37
26	BB	1676	A	C1'-N9	5.07	1.56	1.48
26	BB	1758	U	N1-C6	-5.07	1.33	1.38
26	BB	1787	A	O4'-C1'	-5.07	1.35	1.41
26	BB	2134	A	P-O5'	5.07	1.64	1.59
26	BB	2200	C	O3'-P	5.07	1.67	1.61
26	BB	2850	A	N9-C4	5.07	1.40	1.37
26	BB	2860	A	P-O5'	5.07	1.64	1.59
1	AA	922	G	N1-C2	5.07	1.41	1.37
1	AA	1166	G	C3'-C2'	-5.07	1.47	1.52
26	BB	1914	C	C4'-O4'	-5.07	1.39	1.45
26	BB	1949	G	N9-C4	-5.07	1.33	1.38
26	BB	2317	A	N3-C4	5.07	1.37	1.34
26	BB	2903	U	N1-C2	5.07	1.43	1.38
1	AA	128	G	N7-C5	-5.07	1.36	1.39
1	AA	256	U	C3'-O3'	-5.07	1.35	1.42
1	AA	300	A	C2'-C1'	-5.07	1.47	1.53
1	AA	859	G	N9-C8	5.07	1.41	1.37
1	AA	1006	G	O4'-C1'	5.07	1.48	1.41
1	AA	1144	G	N7-C5	5.07	1.42	1.39
1	AA	1214	C	C5-C6	5.07	1.38	1.34
3	AC	41	A	N1-C2	-5.07	1.29	1.34
4	AD	34	U	C2-N3	5.07	1.41	1.37
11	AK	97	GLY	CA-C	5.07	1.59	1.51
26	BB	98	G	O3'-P	-5.07	1.55	1.61
26	BB	1195	G	C5-C4	5.07	1.41	1.38
26	BB	2438	U	C4'-C3'	5.07	1.58	1.53
26	BB	2876	G	C5'-C4'	5.07	1.57	1.51
1	AA	100	G	C5'-C4'	5.07	1.57	1.51
1	AA	205	A	C5-C6	5.07	1.45	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1312	G	C6-N1	5.07	1.43	1.39
1	AA	1316	G	C5-C4	-5.07	1.34	1.38
4	AD	53	G	C8-N7	-5.07	1.27	1.30
17	AQ	19	TYR	CE1-CZ	5.07	1.45	1.38
25	BA	108	A	C6-N1	5.07	1.39	1.35
26	BB	265	A	C3'-C2'	5.07	1.58	1.52
26	BB	920	A	O4'-C1'	5.07	1.48	1.41
26	BB	1061	U	O3'-P	5.07	1.67	1.61
26	BB	1107	G	N7-C5	-5.07	1.36	1.39
26	BB	1129	A	N9-C4	5.07	1.40	1.37
26	BB	1162	G	C2-N3	5.07	1.36	1.32
26	BB	1395	A	C4'-O4'	-5.07	1.39	1.45
26	BB	1397	U	C5'-C4'	5.07	1.57	1.51
26	BB	1619	G	C8-N7	-5.07	1.27	1.30
26	BB	2258	C	C3'-C2'	5.07	1.58	1.52
26	BB	2341	G	C5-C4	-5.07	1.34	1.38
26	BB	2434	A	C6-N6	-5.07	1.29	1.33
26	BB	2578	G	C2-N3	5.07	1.36	1.32
1	AA	1077	G	C3'-C2'	5.06	1.58	1.52
25	BA	2	G	N7-C5	5.06	1.42	1.39
26	BB	1026	G	N1-C2	5.06	1.41	1.37
26	BB	1482	G	C8-N7	5.06	1.33	1.30
26	BB	2098	U	C4'-C3'	-5.06	1.47	1.52
1	AA	419	C	N1-C6	5.06	1.40	1.37
1	AA	608	A	C2-N3	5.06	1.38	1.33
1	AA	1153	G	N7-C5	-5.06	1.36	1.39
25	BA	101	A	N1-C2	-5.06	1.29	1.34
26	BB	122	G	C6-N1	5.06	1.43	1.39
26	BB	286	U	N3-C4	5.06	1.43	1.38
26	BB	937	C	O3'-P	5.06	1.67	1.61
26	BB	1739	A	O5'-C5'	-5.06	1.34	1.42
26	BB	1903	G	C2'-C1'	-5.06	1.47	1.53
26	BB	2351	G	C2-N3	5.06	1.36	1.32
1	AA	1289	A	C4'-O4'	-5.06	1.39	1.45
1	AA	1479	C	C2'-C1'	5.06	1.58	1.53
25	BA	22	U	C3'-O3'	5.06	1.49	1.42
26	BB	100	U	N3-C4	5.06	1.43	1.38
26	BB	193	U	C4'-O4'	-5.06	1.39	1.45
26	BB	686	U	O4'-C1'	5.06	1.48	1.41
26	BB	1683	U	C1'-N1	5.06	1.56	1.48
1	AA	883	C	C4-C5	5.06	1.47	1.43
1	AA	968	A	N3-C4	5.06	1.37	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1511	G	N1-C2	-5.06	1.33	1.37
17	AQ	99	SER	CB-OG	5.06	1.48	1.42
26	BB	42	A	C4'-C3'	5.06	1.58	1.53
26	BB	202	U	C4-O4	5.06	1.27	1.23
26	BB	430	A	C5-C6	5.06	1.45	1.41
26	BB	501	A	N7-C5	5.06	1.42	1.39
26	BB	964	C	N1-C6	5.06	1.40	1.37
26	BB	1167	C	C5'-C4'	5.06	1.57	1.51
26	BB	1169	A	N1-C2	5.06	1.39	1.34
26	BB	1195	G	C5-C6	5.06	1.47	1.42
26	BB	2276	G	C4'-O4'	-5.06	1.39	1.45
26	BB	2776	A	P-O5'	5.06	1.64	1.59
26	BB	2824	C	C4'-O4'	-5.06	1.39	1.45
26	BB	2901	C	C2'-C1'	5.06	1.58	1.53
1	AA	578	C	C2'-O2'	-5.06	1.35	1.41
1	AA	764	C	C2-O2	5.06	1.29	1.24
4	AD	52	C	C5-C6	-5.06	1.30	1.34
23	AW	69	ASN	CB-CG	5.06	1.62	1.51
25	BA	38	C	C4-C5	5.06	1.47	1.43
26	BB	479	A	C6-N6	5.06	1.38	1.33
26	BB	616	A	O3'-P	-5.06	1.55	1.61
26	BB	672	C	C4'-O4'	-5.06	1.39	1.45
26	BB	1428	C	N1-C2	5.06	1.45	1.40
26	BB	1467	U	C4'-C3'	-5.06	1.47	1.52
26	BB	1559	U	C5'-C4'	5.06	1.57	1.51
26	BB	1670	C	C4-N4	-5.06	1.29	1.33
26	BB	1687	G	P-O5'	5.06	1.64	1.59
26	BB	1786	A	C3'-C2'	-5.06	1.47	1.52
26	BB	1999	C	P-O5'	5.06	1.64	1.59
26	BB	2317	A	N9-C8	-5.06	1.33	1.37
26	BB	2603	G	C5'-C4'	5.06	1.57	1.51
26	BB	2850	A	P-O5'	5.06	1.64	1.59
26	BB	2859	G	P-O5'	5.06	1.64	1.59
1	AA	897	C	O4'-C1'	-5.06	1.35	1.41
1	AA	1128	C	N3-C4	5.06	1.37	1.33
11	AK	87	ARG	CZ-NH1	5.06	1.39	1.33
26	BB	149	A	C2'-C1'	-5.06	1.47	1.53
26	BB	374	A	C3'-O3'	5.06	1.49	1.42
26	BB	911	A	C5-C4	-5.06	1.35	1.38
1	AA	251	G	C5'-C4'	5.05	1.57	1.51
1	AA	306	A	C5'-C4'	5.05	1.57	1.51
1	AA	495	A	C8-N7	-5.05	1.28	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	822	U	C5'-C4'	5.05	1.57	1.51
1	AA	906	A	C6-N1	-5.05	1.32	1.35
1	AA	1090	U	O3'-P	5.05	1.67	1.61
26	BB	15	G	C5'-C4'	5.05	1.57	1.51
26	BB	103	A	C5-C4	-5.05	1.35	1.38
26	BB	144	A	C6-N1	-5.05	1.32	1.35
26	BB	481	G	C3'-C2'	5.05	1.58	1.52
26	BB	712	G	N7-C5	5.05	1.42	1.39
26	BB	1176	U	C1'-N1	5.05	1.56	1.48
26	BB	2586	U	C2-N3	5.05	1.41	1.37
1	AA	814	A	N9-C4	-5.05	1.34	1.37
1	AA	1340	A	N7-C5	5.05	1.42	1.39
26	BB	415	A	C2'-O2'	5.05	1.48	1.41
26	BB	484	C	C2'-C1'	-5.05	1.47	1.53
26	BB	590	A	C6-N1	5.05	1.39	1.35
26	BB	1559	U	C4-C5	5.05	1.48	1.43
26	BB	1908	C	C5-C6	-5.05	1.30	1.34
26	BB	2195	U	C4'-C3'	5.05	1.58	1.53
26	BB	2461	A	C5'-C4'	5.05	1.57	1.51
26	BB	2572	A	C6-N6	5.05	1.38	1.33
28	BD	108	GLY	CA-C	5.05	1.59	1.51
1	AA	575	G	N1-C2	5.05	1.41	1.37
1	AA	912	C	C4-C5	-5.05	1.39	1.43
2	AB	44	G	C3'-C2'	5.05	1.58	1.52
21	AU	69	TYR	CG-CD1	5.05	1.45	1.39
25	BA	106	G	C2-N3	5.05	1.36	1.32
26	BB	261	G	N9-C8	5.05	1.41	1.37
26	BB	594	U	C5'-C4'	-5.05	1.45	1.51
26	BB	933	A	N9-C4	5.05	1.40	1.37
26	BB	1076	C	C4'-O4'	-5.05	1.39	1.45
26	BB	1369	G	C8-N7	5.05	1.33	1.30
26	BB	1567	G	N7-C5	5.05	1.42	1.39
26	BB	1854	A	P-O5'	5.05	1.64	1.59
26	BB	2033	A	C3'-C2'	5.05	1.58	1.52
26	BB	2103	C	N1-C6	-5.05	1.34	1.37
26	BB	2278	A	P-O5'	-5.05	1.54	1.59
26	BB	2893	A	N1-C2	5.05	1.38	1.34
1	AA	30	U	C5'-C4'	5.05	1.57	1.51
1	AA	44	A	N9-C8	5.05	1.41	1.37
1	AA	105	G	C2-N3	5.05	1.36	1.32
1	AA	137	U	C5-C6	5.05	1.38	1.34
1	AA	237	G	P-O5'	5.05	1.64	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	624	C	C2-N3	5.05	1.39	1.35
1	AA	719	C	N1-C2	5.05	1.45	1.40
1	AA	1261	A	O4'-C1'	5.05	1.48	1.41
1	AA	1346	A	C6-N1	-5.05	1.32	1.35
26	BB	342	A	C5-C6	5.05	1.45	1.41
26	BB	1005	C	C4-C5	5.05	1.47	1.43
26	BB	1714	U	C5'-C4'	5.05	1.57	1.51
26	BB	1828	G	C2-N2	5.05	1.39	1.34
26	BB	1856	U	C2-N3	5.05	1.41	1.37
26	BB	1884	G	N3-C4	5.05	1.39	1.35
26	BB	1969	A	P-O5'	5.05	1.64	1.59
26	BB	2329	U	O3'-P	5.05	1.67	1.61
28	BD	166	ARG	CD-NE	5.05	1.55	1.46
1	AA	236	A	C5'-C4'	5.05	1.57	1.51
1	AA	344	A	C5-C4	-5.05	1.35	1.38
1	AA	641	U	C4-O4	-5.05	1.19	1.23
1	AA	770	C	C4-C5	5.05	1.47	1.43
1	AA	1283	U	C4-C5	5.05	1.48	1.43
26	BB	1223	G	C6-N1	5.05	1.43	1.39
26	BB	1488	C	P-O5'	5.05	1.64	1.59
26	BB	1674	G	C2-N2	5.05	1.39	1.34
26	BB	2364	C	C4'-C3'	-5.05	1.47	1.52
1	AA	236	A	C3'-O3'	5.05	1.49	1.42
1	AA	316	C	C2-N3	5.05	1.39	1.35
14	AN	117	HIS	N-CA	-5.05	1.36	1.46
26	BB	489	G	O4'-C1'	5.05	1.48	1.41
26	BB	1168	G	P-O5'	5.05	1.64	1.59
26	BB	1488	C	C5'-C4'	5.05	1.57	1.51
26	BB	1567	G	N3-C4	5.05	1.39	1.35
26	BB	1866	A	C4'-O4'	-5.05	1.39	1.45
26	BB	2180	U	C4-C5	5.05	1.48	1.43
26	BB	2257	U	O3'-P	-5.05	1.55	1.61
26	BB	2455	G	O3'-P	5.05	1.67	1.61
26	BB	2620	C	O4'-C1'	5.05	1.48	1.41
26	BB	2740	A	C8-N7	-5.05	1.28	1.31
1	AA	714	G	N7-C5	-5.04	1.36	1.39
1	AA	1265	C	N1-C2	5.04	1.45	1.40
1	AA	1450	U	C4'-O4'	-5.04	1.39	1.45
4	AD	14	A	C5-C4	-5.04	1.35	1.38
26	BB	1581	G	C6-O6	-5.04	1.19	1.24
26	BB	2278	A	C4'-C3'	5.04	1.58	1.53
26	BB	2722	G	C2-N3	5.04	1.36	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2743	U	C3'-O3'	5.04	1.49	1.42
1	AA	599	C	C4'-O4'	-5.04	1.39	1.45
1	AA	607	A	C5-C6	5.04	1.45	1.41
1	AA	911	U	C2'-C1'	5.04	1.58	1.53
1	AA	1191	A	C4'-O4'	-5.04	1.39	1.45
1	AA	1323	G	C4'-C3'	5.04	1.58	1.53
1	AA	1359	C	C5-C6	5.04	1.38	1.34
26	BB	1211	C	O3'-P	5.04	1.67	1.61
26	BB	2838	G	N7-C5	-5.04	1.36	1.39
1	AA	130	A	C2-N3	-5.04	1.29	1.33
1	AA	201	G	N9-C4	5.04	1.42	1.38
1	AA	1206	G	C6-O6	-5.04	1.19	1.24
1	AA	1275	A	C5-C6	5.04	1.45	1.41
1	AA	1428	A	C4'-O4'	-5.04	1.39	1.45
2	AB	45	U	C5-C6	5.04	1.38	1.34
5	AE	78	ALA	CA-CB	5.04	1.63	1.52
26	BB	139	U	C2'-C1'	-5.04	1.47	1.53
26	BB	224	U	C5'-C4'	5.04	1.57	1.51
26	BB	762	U	C4-C5	5.04	1.48	1.43
26	BB	892	A	C6-N6	5.04	1.38	1.33
26	BB	902	C	N1-C2	-5.04	1.35	1.40
26	BB	2197	U	N3-C4	5.04	1.43	1.38
26	BB	2243	U	C5-C6	5.04	1.38	1.34
26	BB	2614	A	C6-N1	-5.04	1.32	1.35
1	AA	637	C	N3-C4	5.04	1.37	1.33
1	AA	1470	U	C4'-O4'	-5.04	1.39	1.45
1	AA	1527	U	C4'-O4'	-5.04	1.39	1.45
26	BB	246	C	P-O5'	5.04	1.64	1.59
26	BB	1560	G	C2-N3	5.04	1.36	1.32
1	AA	19	A	O4'-C1'	5.04	1.48	1.41
1	AA	159	G	C5'-C4'	5.04	1.57	1.51
1	AA	292	G	C5-C4	5.04	1.41	1.38
1	AA	414	A	N3-C4	5.04	1.37	1.34
1	AA	1035	A	C3'-C2'	5.04	1.58	1.52
1	AA	1070	U	C4'-O4'	-5.04	1.39	1.45
1	AA	1156	G	N9-C4	5.04	1.42	1.38
1	AA	1392	G	C6-O6	-5.04	1.19	1.24
7	AG	167	PRO	N-CD	-5.04	1.40	1.47
26	BB	106	C	C4'-O4'	-5.04	1.39	1.45
26	BB	371	A	N3-C4	5.04	1.37	1.34
26	BB	423	A	C2'-O2'	5.04	1.48	1.41
26	BB	457	A	N9-C4	5.04	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	1521	G	O3'-P	5.04	1.67	1.61
26	BB	2009	A	N3-C4	5.04	1.37	1.34
26	BB	2084	C	O4'-C1'	5.04	1.48	1.41
26	BB	2540	C	C3'-O3'	-5.04	1.35	1.42
1	AA	236	A	O4'-C1'	5.04	1.48	1.41
26	BB	943	A	N9-C4	-5.04	1.34	1.37
26	BB	1112	G	P-O5'	5.04	1.64	1.59
26	BB	1597	A	N1-C2	5.04	1.38	1.34
26	BB	2582	G	C3'-C2'	-5.04	1.47	1.52
1	AA	34	C	P-O5'	5.04	1.64	1.59
1	AA	464	U	O3'-P	5.04	1.67	1.61
1	AA	641	U	C4'-O4'	-5.04	1.39	1.45
1	AA	707	U	C1'-N1	5.04	1.56	1.48
1	AA	790	A	C6-N1	5.04	1.39	1.35
1	AA	1282	C	C4-C5	5.04	1.47	1.43
25	BA	24	G	N3-C4	-5.04	1.31	1.35
25	BA	98	G	C5-C6	5.04	1.47	1.42
25	BA	117	G	N1-C2	5.04	1.41	1.37
26	BB	142	A	C3'-O3'	5.04	1.49	1.42
26	BB	735	A	C4'-O4'	-5.04	1.39	1.45
26	BB	942	G	C3'-C2'	5.04	1.58	1.52
26	BB	1601	G	C8-N7	-5.04	1.27	1.30
26	BB	1878	G	C6-N1	-5.04	1.36	1.39
26	BB	1901	A	O5'-C5'	-5.04	1.34	1.42
26	BB	2280	G	C6-O6	-5.04	1.19	1.24
26	BB	2643	G	N1-C2	5.04	1.41	1.37
26	BB	2857	G	O3'-P	-5.04	1.55	1.61
1	AA	3	A	C2'-C1'	5.03	1.58	1.53
1	AA	851	G	C4'-C3'	5.03	1.58	1.53
1	AA	877	G	N3-C4	5.03	1.39	1.35
1	AA	885	G	C2'-O2'	-5.03	1.35	1.41
1	AA	1163	A	N3-C4	5.03	1.37	1.34
1	AA	1535	C	N1-C2	5.03	1.45	1.40
3	AC	44	U	C5-C6	5.03	1.38	1.34
26	BB	456	C	N3-C4	5.03	1.37	1.33
26	BB	764	A	C5-C6	5.03	1.45	1.41
26	BB	1386	C	C4-N4	5.03	1.38	1.33
26	BB	1438	U	O3'-P	5.03	1.67	1.61
26	BB	1827	U	C3'-C2'	5.03	1.58	1.52
26	BB	1834	U	C4'-O4'	-5.03	1.39	1.45
26	BB	1876	A	C3'-C2'	-5.03	1.47	1.52
26	BB	2463	C	O3'-P	5.03	1.67	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2647	U	C2'-C1'	-5.03	1.47	1.53
26	BB	2648	G	C2'-C1'	-5.03	1.47	1.53
26	BB	2680	U	C2-O2	-5.03	1.17	1.22
26	BB	2740	A	N1-C2	-5.03	1.29	1.34
1	AA	183	C	C2-N3	5.03	1.39	1.35
1	AA	597	G	C2-N3	-5.03	1.28	1.32
1	AA	1245	C	P-O5'	5.03	1.64	1.59
2	AB	19	G	N1-C2	5.03	1.41	1.37
26	BB	2033	A	C2-N3	5.03	1.38	1.33
1	AA	78	A	P-O5'	5.03	1.64	1.59
1	AA	150	U	O3'-P	5.03	1.67	1.61
1	AA	762	U	C2-N3	5.03	1.41	1.37
1	AA	1204	A	N7-C5	-5.03	1.36	1.39
1	AA	1534	A	C5-C4	5.03	1.42	1.38
4	AD	73	A	C8-N7	-5.03	1.28	1.31
12	AL	89	TYR	CB-CG	-5.03	1.44	1.51
25	BA	49	C	C2-N3	5.03	1.39	1.35
26	BB	416	U	C2'-C1'	-5.03	1.47	1.53
26	BB	1010	A	C5'-C4'	5.03	1.57	1.51
26	BB	1186	G	N9-C8	5.03	1.41	1.37
26	BB	1249	U	C4'-O4'	-5.03	1.39	1.45
26	BB	1336	A	N9-C8	-5.03	1.33	1.37
26	BB	1369	G	N3-C4	5.03	1.39	1.35
26	BB	1696	G	C3'-O3'	5.03	1.49	1.42
26	BB	1805	A	C6-N1	5.03	1.39	1.35
26	BB	2055	C	O4'-C1'	5.03	1.48	1.41
36	BL	69	ARG	CD-NE	5.03	1.55	1.46
37	BM	34	GLY	N-CA	5.03	1.53	1.46
1	AA	442	G	N9-C8	5.03	1.41	1.37
1	AA	460	A	P-OP2	5.03	1.57	1.49
1	AA	1077	G	C8-N7	5.03	1.33	1.30
26	BB	1894	C	C2'-C1'	5.03	1.58	1.53
26	BB	2672	U	C2-O2	-5.03	1.17	1.22
1	AA	384	G	O3'-P	-5.03	1.55	1.61
1	AA	400	C	C5'-C4'	5.03	1.57	1.51
1	AA	921	U	C2-N3	5.03	1.41	1.37
25	BA	79	G	P-O5'	5.03	1.64	1.59
26	BB	51	G	O4'-C1'	5.03	1.48	1.41
26	BB	643	A	C6-N6	5.03	1.38	1.33
26	BB	825	A	C8-N7	-5.03	1.28	1.31
26	BB	969	G	C2-N3	5.03	1.36	1.32
26	BB	1155	A	O5'-C5'	-5.03	1.34	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2019	A	C2-N3	5.03	1.38	1.33
26	BB	2193	G	N1-C2	5.03	1.41	1.37
26	BB	2230	G	C5-C6	-5.03	1.37	1.42
26	BB	2612	C	C2'-O2'	5.03	1.48	1.41
26	BB	2730	C	C2-O2	-5.03	1.20	1.24
43	BS	24	TYR	CE2-CZ	5.03	1.45	1.38
1	AA	43	C	C5'-C4'	5.03	1.57	1.51
1	AA	573	A	N9-C4	-5.03	1.34	1.37
1	AA	586	C	P-O5'	5.03	1.64	1.59
26	BB	15	G	O3'-P	5.03	1.67	1.61
26	BB	647	G	N9-C8	5.03	1.41	1.37
26	BB	871	U	C2-O2	5.03	1.26	1.22
26	BB	1341	G	O5'-C5'	-5.03	1.34	1.42
26	BB	1888	G	C3'-C2'	5.03	1.58	1.52
1	AA	575	G	C6-N1	5.02	1.43	1.39
1	AA	668	G	N1-C2	5.02	1.41	1.37
1	AA	869	G	P-O5'	5.02	1.64	1.59
1	AA	899	C	C5'-C4'	5.02	1.57	1.51
1	AA	1330	U	C5-C6	5.02	1.38	1.34
26	BB	894	U	O4'-C1'	5.02	1.48	1.41
26	BB	2390	U	O3'-P	-5.02	1.55	1.61
26	BB	2635	A	C3'-C2'	-5.02	1.47	1.52
1	AA	720	C	N3-C4	5.02	1.37	1.33
1	AA	1496	C	C2'-O2'	-5.02	1.35	1.41
26	BB	71	A	C2'-O2'	-5.02	1.35	1.41
26	BB	740	C	C2'-O2'	-5.02	1.35	1.41
26	BB	1481	U	C4-C5	5.02	1.48	1.43
26	BB	1566	A	N7-C5	-5.02	1.36	1.39
26	BB	1596	A	O3'-P	5.02	1.67	1.61
26	BB	1733	G	C5-C6	5.02	1.47	1.42
26	BB	2428	G	C5-C4	-5.02	1.34	1.38
26	BB	2895	G	C5-C6	5.02	1.47	1.42
4	AD	75	C	N1-C2	5.02	1.45	1.40
25	BA	110	C	O3'-P	5.02	1.67	1.61
26	BB	32	C	N1-C6	5.02	1.40	1.37
1	AA	274	A	C3'-C2'	-5.02	1.47	1.52
1	AA	579	A	C2-N3	5.02	1.38	1.33
1	AA	620	C	N3-C4	5.02	1.37	1.33
1	AA	991	U	C2-N3	5.02	1.41	1.37
1	AA	995	C	C4'-C3'	5.02	1.58	1.53
1	AA	1001	C	C4'-O4'	-5.02	1.39	1.45
26	BB	253	C	P-O5'	5.02	1.64	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	406	G	N7-C5	5.02	1.42	1.39
26	BB	521	U	O3'-P	-5.02	1.55	1.61
26	BB	803	U	N3-C4	5.02	1.43	1.38
26	BB	2221	G	C5'-C4'	-5.02	1.45	1.51
26	BB	2482	A	C4'-O4'	-5.02	1.39	1.45
26	BB	2493	U	C4'-O4'	-5.02	1.39	1.45
26	BB	2867	G	C5'-C4'	-5.02	1.45	1.51
26	BB	2889	C	C2-O2	5.02	1.28	1.24
53	B2	44	PHE	CG-CD2	5.02	1.46	1.38
1	AA	282	A	C5'-C4'	5.02	1.57	1.51
1	AA	873	A	P-O5'	5.02	1.64	1.59
1	AA	1216	A	N9-C8	-5.02	1.33	1.37
1	AA	1304	G	O3'-P	5.02	1.67	1.61
3	AC	53	G	O4'-C1'	5.02	1.48	1.41
4	AD	62	C	N1-C6	5.02	1.40	1.37
26	BB	65	U	C4'-C3'	5.02	1.58	1.53
26	BB	124	G	C3'-C2'	5.02	1.58	1.52
26	BB	336	C	C4-N4	5.02	1.38	1.33
26	BB	809	G	C5'-C4'	5.02	1.57	1.51
26	BB	1133	A	C4'-C3'	5.02	1.58	1.53
26	BB	1217	U	N3-C4	5.02	1.43	1.38
26	BB	1568	G	C6-O6	-5.02	1.19	1.24
26	BB	1793	C	C4'-O4'	-5.02	1.39	1.45
1	AA	308	C	C2'-C1'	-5.02	1.47	1.53
1	AA	753	A	C5-C6	5.02	1.45	1.41
26	BB	759	G	C5'-C4'	5.02	1.57	1.51
26	BB	988	A	C5'-C4'	5.02	1.57	1.51
26	BB	2072	C	C5'-C4'	5.02	1.57	1.51
1	AA	143	A	C6-N6	5.01	1.38	1.33
1	AA	884	U	N1-C2	-5.01	1.34	1.38
1	AA	1325	C	C4-N4	-5.01	1.29	1.33
1	AA	1492	A	N7-C5	-5.01	1.36	1.39
25	BA	2	G	C6-N1	5.01	1.43	1.39
25	BA	72	G	C2'-C1'	5.01	1.58	1.53
26	BB	367	G	C6-N1	5.01	1.43	1.39
26	BB	524	G	C5'-C4'	5.01	1.57	1.51
26	BB	617	G	C6-N1	5.01	1.43	1.39
26	BB	871	U	N1-C2	5.01	1.43	1.38
26	BB	1892	C	C4'-O4'	-5.01	1.39	1.45
26	BB	2066	C	C2'-C1'	5.01	1.58	1.53
26	BB	2237	G	C2-N2	5.01	1.39	1.34
26	BB	2264	C	C5'-C4'	5.01	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2264	C	N3-C4	-5.01	1.30	1.33
26	BB	2331	G	O4'-C1'	5.01	1.48	1.41
26	BB	2862	G	C3'-O3'	5.01	1.49	1.42
34	BJ	60	ARG	CD-NE	5.01	1.54	1.46
1	AA	681	A	C4'-O4'	-5.01	1.39	1.45
1	AA	870	U	C4-O4	-5.01	1.19	1.23
25	BA	15	A	C5'-C4'	5.01	1.57	1.51
26	BB	5	A	N3-C4	5.01	1.37	1.34
26	BB	1452	G	N9-C8	5.01	1.41	1.37
26	BB	1663	G	C4'-O4'	-5.01	1.39	1.45
26	BB	1670	C	C4'-O4'	-5.01	1.39	1.45
1	AA	348	G	C3'-O3'	5.01	1.49	1.42
1	AA	517	G	N9-C4	5.01	1.42	1.38
1	AA	1016	A	C5-C6	5.01	1.45	1.41
1	AA	1043	G	C8-N7	-5.01	1.27	1.30
1	AA	1164	G	O4'-C1'	5.01	1.48	1.41
1	AA	1169	A	C8-N7	5.01	1.35	1.31
1	AA	1514	G	C2'-C1'	5.01	1.58	1.53
26	BB	125	A	C4'-C3'	5.01	1.58	1.53
26	BB	127	A	N1-C2	-5.01	1.29	1.34
26	BB	429	A	N3-C4	5.01	1.37	1.34
26	BB	478	A	C4'-O4'	-5.01	1.39	1.45
26	BB	483	A	C6-N1	-5.01	1.32	1.35
26	BB	637	A	C5'-C4'	5.01	1.57	1.51
26	BB	701	G	C2'-C1'	-5.01	1.47	1.53
26	BB	1049	C	C2'-O2'	5.01	1.48	1.41
26	BB	2005	A	P-O5'	5.01	1.64	1.59
26	BB	2297	A	N3-C4	5.01	1.37	1.34
26	BB	2578	G	C6-O6	-5.01	1.19	1.24
26	BB	2660	A	C1'-N9	5.01	1.56	1.48
1	AA	895	G	C2-N3	5.01	1.36	1.32
26	BB	7	G	C5-C6	5.01	1.47	1.42
26	BB	223	A	C6-N1	5.01	1.39	1.35
26	BB	271	G	N3-C4	5.01	1.39	1.35
26	BB	535	G	N3-C4	5.01	1.39	1.35
26	BB	705	A	O3'-P	5.01	1.67	1.61
26	BB	953	G	C6-N1	5.01	1.43	1.39
26	BB	1261	C	C4-C5	5.01	1.47	1.43
26	BB	1464	G	C2'-C1'	5.01	1.58	1.53
26	BB	1953	A	P-O5'	5.01	1.64	1.59
26	BB	2091	C	C4-C5	5.01	1.47	1.43
26	BB	2186	G	N1-C2	5.01	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2872	A	O3'-P	5.01	1.67	1.61
31	BG	118	ALA	N-CA	5.01	1.56	1.46
1	AA	1530	G	N3-C4	5.01	1.39	1.35
26	BB	394	C	C5'-C4'	5.01	1.57	1.51
26	BB	1022	G	N9-C8	5.01	1.41	1.37
26	BB	1775	U	N1-C6	5.01	1.42	1.38
1	AA	923	A	C6-N1	5.01	1.39	1.35
2	AB	43	G	C8-N7	5.01	1.33	1.30
4	AD	28	U	C4'-O4'	-5.01	1.39	1.45
26	BB	107	G	N9-C4	5.01	1.42	1.38
26	BB	270	A	C5'-C4'	5.01	1.57	1.51
26	BB	308	G	C2-N2	5.01	1.39	1.34
26	BB	591	U	C4-C5	-5.01	1.39	1.43
26	BB	1256	G	O3'-P	5.01	1.67	1.61
26	BB	1713	A	N7-C5	-5.01	1.36	1.39
1	AA	673	A	O3'-P	5.00	1.67	1.61
1	AA	842	U	C4-O4	-5.00	1.19	1.23
1	AA	1021	A	C2-N3	5.00	1.38	1.33
1	AA	1066	C	C2-N3	5.00	1.39	1.35
1	AA	1183	U	C4-C5	5.00	1.48	1.43
1	AA	1275	A	O5'-C5'	-5.00	1.34	1.42
11	AK	99	GLY	N-CA	-5.00	1.38	1.46
26	BB	503	A	N9-C8	5.00	1.41	1.37
26	BB	630	G	C5-C4	5.00	1.41	1.38
26	BB	1505	A	N1-C2	-5.00	1.29	1.34
26	BB	2595	G	C6-O6	5.00	1.28	1.24
1	AA	78	A	N9-C8	5.00	1.41	1.37
1	AA	90	C	C1'-N1	5.00	1.56	1.48
1	AA	362	G	N1-C2	5.00	1.41	1.37
1	AA	530	G	C2-N3	5.00	1.36	1.32
1	AA	1171	A	C4'-O4'	-5.00	1.39	1.45
1	AA	1197	A	P-O5'	5.00	1.64	1.59
1	AA	1416	G	C2-N3	5.00	1.36	1.32
1	AA	1436	U	C2'-O2'	5.00	1.48	1.41
26	BB	543	G	C4'-O4'	-5.00	1.39	1.45
26	BB	572	A	C5'-C4'	5.00	1.57	1.51
26	BB	696	G	C2'-C1'	5.00	1.58	1.53
26	BB	761	A	N1-C2	5.00	1.38	1.34
26	BB	1224	U	C2'-C1'	5.00	1.58	1.53
26	BB	2284	A	C5-C6	5.00	1.45	1.41
26	BB	2639	A	C4'-C3'	5.00	1.58	1.53
1	AA	364	A	P-O5'	5.00	1.64	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	380	G	C6-N1	5.00	1.43	1.39
26	BB	247	G	N1-C2	5.00	1.41	1.37
26	BB	443	A	N9-C8	-5.00	1.33	1.37
26	BB	545	U	C3'-C2'	-5.00	1.47	1.52
26	BB	622	G	C8-N7	-5.00	1.27	1.30
26	BB	1280	G	N9-C8	-5.00	1.34	1.37
26	BB	1422	G	C5'-C4'	5.00	1.57	1.51
26	BB	1544	A	C4'-O4'	-5.00	1.39	1.45
26	BB	1603	A	C4'-O4'	-5.00	1.39	1.45
26	BB	1776	G	C3'-C2'	5.00	1.58	1.52
26	BB	1890	A	N3-C4	5.00	1.37	1.34
26	BB	2124	G	P-O5'	5.00	1.64	1.59
26	BB	2192	U	N1-C6	5.00	1.42	1.38

All (27088) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	AG	164	ARG	NE-CZ-NH2	-25.71	107.44	120.30
7	AG	164	ARG	NE-CZ-NH1	23.24	131.92	120.30
7	AG	114	ARG	NE-CZ-NH2	-22.43	109.08	120.30
26	BB	1929	G	C2-N3-C4	22.14	122.97	111.90
26	BB	2512	C	N3-C4-C5	-21.97	113.11	121.90
26	BB	69	C	N3-C4-C5	-21.50	113.30	121.90
26	BB	316	C	N3-C4-C5	-21.04	113.48	121.90
21	AU	62	ARG	NE-CZ-NH2	20.69	130.65	120.30
43	BS	29	ARG	NE-CZ-NH2	-20.39	110.11	120.30
26	BB	1929	G	N3-C4-C5	-20.35	118.43	128.60
26	BB	2475	C	C6-N1-C2	-20.23	112.21	120.30
42	BR	61	ARG	NE-CZ-NH1	-19.70	110.45	120.30
44	BT	79	ARG	NE-CZ-NH1	-19.69	110.45	120.30
1	AA	1506	U	O4'-C1'-N1	19.61	123.89	108.20
1	AA	1034	G	C2-N3-C4	19.46	121.63	111.90
1	AA	805	C	O4'-C1'-N1	19.28	123.62	108.20
43	BS	54	ARG	NE-CZ-NH2	-19.20	110.70	120.30
1	AA	1378	C	N3-C4-C5	-19.11	114.26	121.90
25	BA	12	C	C2-N3-C4	19.05	129.43	119.90
10	AJ	110	ARG	NE-CZ-NH1	18.95	129.78	120.30
26	BB	2492	U	O4'-C1'-N1	18.92	123.34	108.20
26	BB	466	A	N9-C4-C5	18.90	113.36	105.80
26	BB	1197	G	N3-C4-C5	-18.85	119.17	128.60
1	AA	1041	G	C8-N9-C4	-18.82	98.87	106.40
1	AA	336	A	O4'-C1'-N9	18.82	123.25	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	466	A	C8-N9-C4	-18.77	98.29	105.80
1	AA	990	C	N1-C2-O2	18.63	130.08	118.90
26	BB	1748	C	N3-C4-C5	-18.63	114.45	121.90
21	AU	62	ARG	NE-CZ-NH1	-18.55	111.02	120.30
1	AA	59	A	N9-C4-C5	18.54	113.22	105.80
14	AN	97	ARG	NE-CZ-NH2	-18.51	111.05	120.30
16	AP	86	ARG	NE-CZ-NH2	-18.46	111.07	120.30
1	AA	833	G	C8-N9-C4	-18.44	99.02	106.40
26	BB	2276	G	N3-C4-C5	-18.41	119.39	128.60
25	BA	7	G	C4-C5-N7	18.37	118.15	110.80
26	BB	960	A	C8-N9-C4	-18.34	98.47	105.80
26	BB	1385	A	C8-N9-C4	-18.25	98.50	105.80
26	BB	2434	A	C8-N9-C4	-18.24	98.50	105.80
26	BB	1431	A	C8-N9-C4	-18.24	98.50	105.80
26	BB	966	G	C8-N9-C4	-18.20	99.12	106.40
26	BB	727	A	C8-N9-C4	-18.18	98.53	105.80
1	AA	550	G	C8-N9-C4	-18.16	99.14	106.40
26	BB	2009	A	C8-N9-C4	-18.12	98.55	105.80
33	BI	116	ARG	NE-CZ-NH2	-18.11	111.25	120.30
26	BB	1736	U	N1-C2-N3	18.05	125.73	114.90
26	BB	1519	G	N9-C4-C5	17.98	112.59	105.40
1	AA	45	G	C4-C5-N7	-17.79	103.69	110.80
26	BB	123	G	C8-N9-C4	-17.73	99.31	106.40
1	AA	38	G	C8-N9-C4	-17.73	99.31	106.40
26	BB	2253	G	C8-N9-C4	-17.71	99.31	106.40
26	BB	2027	G	N9-C4-C5	17.67	112.47	105.40
26	BB	2104	C	N3-C4-C5	-17.62	114.85	121.90
26	BB	2796	U	O4'-C1'-N1	17.54	122.23	108.20
26	BB	2647	U	C5-C4-O4	-17.48	115.41	125.90
1	AA	861	G	C8-N9-C4	-17.48	99.41	106.40
1	AA	153	C	C6-N1-C2	17.47	127.29	120.30
26	BB	1436	G	C4-C5-N7	17.46	117.78	110.80
26	BB	377	G	C4-C5-N7	-17.46	103.82	110.80
26	BB	1436	G	C5-N7-C8	-17.44	95.58	104.30
26	BB	1473	G	C5-C6-O6	-17.40	118.16	128.60
1	AA	1063	C	C6-N1-C2	-17.39	113.34	120.30
26	BB	763	G	N9-C4-C5	17.38	112.35	105.40
26	BB	751	A	C8-N9-C4	-17.32	98.87	105.80
26	BB	546	U	O4'-C1'-N1	17.32	122.06	108.20
26	BB	494	G	C8-N9-C4	-17.31	99.48	106.40
3	AC	48	C	N3-C4-C5	-17.27	114.99	121.90
43	BS	63	ARG	NE-CZ-NH2	-17.11	111.75	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1884	G	C8-N9-C4	-17.05	99.58	106.40
26	BB	1540	G	O4'-C1'-N9	17.05	121.84	108.20
43	BS	29	ARG	NE-CZ-NH1	17.03	128.81	120.30
26	BB	613	A	N1-C2-N3	-17.01	120.80	129.30
47	BW	81	ARG	NE-CZ-NH1	16.97	128.78	120.30
26	BB	2276	G	C8-N9-C4	-16.97	99.61	106.40
1	AA	187	G	O4'-C1'-N9	16.92	121.73	108.20
26	BB	1763	G	N9-C4-C5	16.92	112.17	105.40
26	BB	1234	U	O4'-C1'-N1	16.89	121.71	108.20
26	BB	54	G	C2-N3-C4	16.87	120.34	111.90
47	BW	6	ARG	NE-CZ-NH2	-16.87	111.87	120.30
1	AA	254	G	N3-C4-C5	-16.85	120.17	128.60
26	BB	401	A	N9-C4-C5	16.83	112.53	105.80
26	BB	1748	C	C2-N3-C4	16.79	128.30	119.90
1	AA	628	G	C4-C5-N7	-16.77	104.09	110.80
29	BE	141	ARG	NE-CZ-NH1	16.77	128.68	120.30
26	BB	1588	G	N3-C4-C5	-16.76	120.22	128.60
17	AQ	64	ARG	NE-CZ-NH2	-16.75	111.92	120.30
1	AA	350	G	N9-C4-C5	16.71	112.08	105.40
26	BB	1103	A	O4'-C1'-N9	16.64	121.51	108.20
40	BP	90	ARG	NE-CZ-NH2	-16.62	111.99	120.30
1	AA	1094	G	C8-N9-C4	-16.61	99.75	106.40
1	AA	223	A	C8-N9-C4	-16.60	99.16	105.80
26	BB	1952	A	N9-C4-C5	-16.60	99.16	105.80
1	AA	1457	G	C8-N9-C4	-16.59	99.76	106.40
1	AA	1322	C	C2-N3-C4	16.56	128.18	119.90
1	AA	1080	A	C8-N9-C4	-16.55	99.18	105.80
26	BB	1803	A	N9-C4-C5	16.54	112.41	105.80
26	BB	1324	G	O4'-C1'-N9	16.53	121.42	108.20
1	AA	987	G	C4-C5-N7	-16.52	104.19	110.80
26	BB	179	C	N3-C4-C5	-16.52	115.29	121.90
26	BB	2422	C	N3-C4-C5	-16.51	115.29	121.90
1	AA	666	G	N3-C4-C5	-16.51	120.35	128.60
26	BB	359	G	O4'-C1'-N9	16.51	121.41	108.20
26	BB	1816	C	N3-C4-C5	-16.50	115.30	121.90
36	BL	35	ARG	NE-CZ-NH1	16.46	128.53	120.30
1	AA	254	G	C2-N3-C4	16.41	120.10	111.90
1	AA	351	G	C8-N9-C4	-16.40	99.84	106.40
26	BB	2732	G	C5-N7-C8	16.39	112.50	104.30
1	AA	440	C	O4'-C1'-N1	16.38	121.30	108.20
31	BG	177	ARG	NE-CZ-NH1	16.37	128.48	120.30
1	AA	38	G	N7-C8-N9	16.36	121.28	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	336	C	O4'-C1'-N1	16.35	121.28	108.20
1	AA	165	G	C4-C5-N7	-16.34	104.26	110.80
1	AA	557	G	C2-N3-C4	16.34	120.07	111.90
26	BB	1519	G	C8-N9-C4	-16.27	99.89	106.40
23	AW	59	ARG	NE-CZ-NH2	-16.25	112.17	120.30
1	AA	1533	C	C6-N1-C2	-16.24	113.81	120.30
26	BB	496	G	C8-N9-C4	-16.24	99.91	106.40
26	BB	1582	C	O4'-C1'-N1	16.23	121.18	108.20
7	AG	114	ARG	NE-CZ-NH1	16.18	128.39	120.30
1	AA	765	G	O4'-C1'-N9	16.18	121.14	108.20
26	BB	2413	G	N3-C2-N2	16.16	131.22	119.90
1	AA	1069	C	C6-N1-C2	-16.16	113.84	120.30
1	AA	1177	G	C8-N9-C4	-16.14	99.94	106.40
26	BB	2265	U	C5-C6-N1	-16.14	114.63	122.70
25	BA	9	G	N9-C4-C5	16.12	111.85	105.40
2	AB	29	G	C8-N9-C4	-16.12	99.95	106.40
26	BB	1481	U	O4'-C1'-N1	16.10	121.08	108.20
26	BB	287	G	O4'-C1'-N9	16.03	121.03	108.20
26	BB	2832	U	C5-C6-N1	-16.02	114.69	122.70
26	BB	16	C	O4'-C1'-N1	16.01	121.01	108.20
26	BB	215	G	N1-C6-O6	-16.01	110.29	119.90
26	BB	1843	C	O4'-C1'-N1	15.99	120.99	108.20
26	BB	2048	G	C8-N9-C4	-15.97	100.01	106.40
1	AA	926	G	O4'-C1'-N9	15.96	120.97	108.20
26	BB	806	C	O4'-C1'-N1	15.97	120.97	108.20
1	AA	1068	G	C4-C5-N7	-15.96	104.42	110.80
26	BB	2165	C	N1-C2-O2	15.96	128.47	118.90
27	BC	12	ARG	NE-CZ-NH1	15.95	128.28	120.30
1	AA	1379	G	C2-N3-C4	15.95	119.88	111.90
1	AA	1351	U	O4'-C1'-N1	15.92	120.93	108.20
10	AJ	137	ARG	NE-CZ-NH1	15.91	128.25	120.30
26	BB	2481	G	C8-N9-C4	-15.89	100.04	106.40
26	BB	273	G	N7-C8-N9	15.88	121.04	113.10
1	AA	481	G	C8-N9-C4	-15.88	100.05	106.40
26	BB	1049	C	C2-N3-C4	15.88	127.84	119.90
16	AP	70	ARG	NE-CZ-NH2	-15.87	112.37	120.30
44	BT	78	ARG	NE-CZ-NH1	-15.86	112.37	120.30
4	AD	68	C	O4'-C1'-N1	15.85	120.88	108.20
1	AA	402	G	C2-N3-C4	15.84	119.82	111.90
26	BB	528	A	C8-N9-C4	-15.83	99.47	105.80
1	AA	764	C	C6-N1-C2	-15.80	113.98	120.30
3	AC	41	A	N9-C4-C5	15.79	112.12	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	45	U	O4'-C1'-N1	15.79	120.83	108.20
26	BB	2098	U	O4'-C1'-N1	15.79	120.83	108.20
26	BB	323	C	N1-C2-O2	15.78	128.37	118.90
26	BB	1990	C	O4'-C1'-N1	15.73	120.79	108.20
43	BS	54	ARG	NE-CZ-NH1	15.72	128.16	120.30
26	BB	2190	G	O4'-C1'-N9	15.71	120.77	108.20
26	BB	474	G	C8-N9-C4	-15.70	100.12	106.40
26	BB	1816	C	C2-N3-C4	15.69	127.74	119.90
2	AB	21	A	N9-C4-C5	-15.69	99.53	105.80
26	BB	281	C	C6-N1-C2	-15.68	114.03	120.30
26	BB	2896	C	N3-C4-C5	15.65	128.16	121.90
1	AA	710	G	C2-N3-C4	15.65	119.72	111.90
1	AA	645	G	O4'-C1'-N9	15.65	120.72	108.20
26	BB	809	G	C8-N9-C4	-15.62	100.15	106.40
1	AA	1015	G	O4'-C1'-N9	15.60	120.68	108.20
36	BL	37	ARG	NE-CZ-NH1	15.59	128.10	120.30
26	BB	140	C	N1-C2-O2	15.58	128.25	118.90
26	BB	719	C	C6-N1-C2	-15.55	114.08	120.30
26	BB	1051	G	O4'-C1'-N9	15.55	120.64	108.20
2	AB	65	C	C2-N3-C4	15.54	127.67	119.90
1	AA	1133	G	N7-C8-N9	15.53	120.87	113.10
26	BB	145	C	C5-C4-N4	-15.52	109.34	120.20
26	BB	2208	C	N1-C2-O2	15.51	128.21	118.90
26	BB	9	G	O4'-C1'-N9	15.50	120.60	108.20
26	BB	2294	G	N7-C8-N9	15.50	120.85	113.10
1	AA	1186	G	C6-C5-N7	-15.49	121.11	130.40
26	BB	1822	C	C4-C5-C6	-15.48	109.66	117.40
1	AA	1298	U	C5-C6-N1	-15.48	114.96	122.70
26	BB	2041	U	C5-C4-O4	-15.48	116.61	125.90
1	AA	587	G	C4-C5-N7	-15.46	104.62	110.80
24	AX	46	ARG	NE-CZ-NH1	15.44	128.02	120.30
1	AA	1034	G	N3-C4-C5	-15.44	120.88	128.60
26	BB	1311	G	C8-N9-C4	-15.44	100.22	106.40
26	BB	549	G	C5-C6-N1	15.43	119.22	111.50
26	BB	2146	C	O4'-C1'-N1	15.43	120.55	108.20
1	AA	1034	G	C8-N9-C4	-15.43	100.23	106.40
1	AA	907	A	O4'-C1'-N9	15.41	120.53	108.20
26	BB	1661	G	C8-N9-C4	-15.41	100.24	106.40
1	AA	45	G	N9-C4-C5	15.38	111.55	105.40
26	BB	1797	G	C8-N9-C4	-15.35	100.26	106.40
26	BB	993	G	O4'-C1'-N9	15.34	120.47	108.20
1	AA	750	C	N3-C4-C5	-15.34	115.77	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1246	A	N9-C4-C5	15.34	111.94	105.80
1	AA	589	U	C4-C5-C6	15.33	128.90	119.70
11	AK	127	TYR	CB-CG-CD2	-15.33	111.80	121.00
1	AA	700	G	C6-N1-C2	-15.32	115.91	125.10
3	AC	48	C	C4-C5-C6	15.32	125.06	117.40
26	BB	2003	A	N7-C8-N9	15.32	121.46	113.80
58	B7	19	ARG	NE-CZ-NH2	-15.32	112.64	120.30
26	BB	2057	G	C4-C5-N7	-15.31	104.68	110.80
1	AA	1053	G	C2-N3-C4	15.29	119.55	111.90
26	BB	2035	G	C3'-C2'-C1'	-15.29	89.27	101.50
1	AA	395	C	O4'-C1'-N1	15.28	120.42	108.20
26	BB	2460	U	C5-C6-N1	-15.28	115.06	122.70
26	BB	725	G	N3-C4-C5	-15.27	120.97	128.60
1	AA	402	G	N7-C8-N9	15.26	120.73	113.10
26	BB	2254	C	N1-C2-O2	15.26	128.06	118.90
26	BB	2092	U	O4'-C1'-N1	15.25	120.40	108.20
1	AA	951	G	C4-C5-N7	-15.25	104.70	110.80
1	AA	751	U	N3-C4-C5	-15.23	105.46	114.60
1	AA	384	G	N7-C8-N9	15.23	120.71	113.10
26	BB	2454	G	N9-C4-C5	15.22	111.49	105.40
1	AA	1011	C	O4'-C1'-N1	15.21	120.37	108.20
26	BB	250	G	N9-C4-C5	15.21	111.49	105.40
26	BB	54	G	N3-C4-C5	-15.21	120.99	128.60
26	BB	2732	G	N7-C8-N9	-15.19	105.50	113.10
26	BB	915	C	C6-N1-C2	-15.19	114.22	120.30
4	AD	75	C	C6-N1-C2	-15.17	114.23	120.30
1	AA	514	C	C4-C5-C6	-15.16	109.82	117.40
1	AA	620	C	O4'-C1'-N1	15.16	120.33	108.20
26	BB	2055	C	C1'-O4'-C4'	-15.14	97.79	109.90
1	AA	1129	C	N3-C4-N4	15.13	128.59	118.00
1	AA	313	A	C5-C6-N1	15.12	125.26	117.70
1	AA	1424	U	N3-C2-O2	-15.12	111.62	122.20
26	BB	1775	U	O4'-C1'-N1	15.12	120.29	108.20
26	BB	1831	G	N7-C8-N9	15.11	120.66	113.10
26	BB	1445	G	C4-C5-N7	-15.11	104.76	110.80
1	AA	280	C	C6-N1-C2	15.11	126.34	120.30
1	AA	280	C	N1-C2-O2	15.11	127.96	118.90
1	AA	710	G	N3-C4-C5	-15.10	121.05	128.60
26	BB	1045	C	C6-N1-C2	-15.08	114.27	120.30
1	AA	402	G	C8-N9-C4	-15.07	100.37	106.40
28	BD	79	ARG	NE-CZ-NH2	-15.07	112.76	120.30
26	BB	1063	G	C4-C5-N7	-15.06	104.77	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	557	G	C8-N9-C4	-15.04	100.38	106.40
1	AA	913	A	O4'-C1'-N9	15.03	120.22	108.20
25	BA	98	G	C8-N9-C4	-15.03	100.39	106.40
26	BB	2216	G	C6-N1-C2	-15.01	116.09	125.10
26	BB	1060	U	O4'-C1'-N1	14.98	120.19	108.20
26	BB	1587	G	C5-N7-C8	-14.96	96.82	104.30
1	AA	423	G	C8-N9-C4	-14.95	100.42	106.40
48	BX	93	ARG	NE-CZ-NH1	14.94	127.77	120.30
1	AA	1181	G	N3-C4-C5	-14.94	121.13	128.60
26	BB	2365	G	C4-C5-N7	-14.94	104.82	110.80
1	AA	983	A	N1-C2-N3	-14.93	121.83	129.30
1	AA	1034	G	N7-C8-N9	14.93	120.56	113.10
26	BB	2729	G	C8-N9-C4	-14.93	100.43	106.40
26	BB	1813	G	C2-N3-C4	14.93	119.36	111.90
25	BA	114	C	C5-C6-N1	14.92	128.46	121.00
2	AB	59	G	C8-N9-C4	-14.89	100.44	106.40
26	BB	679	C	O4'-C1'-N1	14.87	120.09	108.20
1	AA	899	C	O4'-C1'-N1	14.85	120.08	108.20
26	BB	2600	A	C8-N9-C4	-14.84	99.87	105.80
25	BA	107	G	C8-N9-C4	-14.83	100.47	106.40
26	BB	480	A	N1-C6-N6	14.82	127.49	118.60
26	BB	1215	G	N1-C6-O6	-14.82	111.01	119.90
1	AA	27	G	C2-N3-C4	14.80	119.30	111.90
26	BB	769	U	C5-C4-O4	-14.80	117.02	125.90
26	BB	123	G	N9-C4-C5	14.80	111.32	105.40
26	BB	1704	C	C6-N1-C2	-14.79	114.38	120.30
26	BB	2382	G	C8-N9-C4	-14.79	100.48	106.40
1	AA	1317	C	O4'-C1'-N1	14.79	120.03	108.20
26	BB	485	C	O4'-C1'-N1	14.78	120.03	108.20
26	BB	1879	C	C6-N1-C2	-14.78	114.39	120.30
26	BB	2567	G	C8-N9-C4	-14.75	100.50	106.40
1	AA	345	C	N1-C2-O2	14.75	127.75	118.90
1	AA	729	A	N9-C4-C5	14.75	111.70	105.80
54	B3	51	ARG	NE-CZ-NH1	-14.74	112.93	120.30
1	AA	176	C	N3-C4-C5	-14.73	116.01	121.90
26	BB	1465	G	C4-C5-N7	-14.73	104.91	110.80
1	AA	557	G	N9-C4-C5	14.73	111.29	105.40
26	BB	1116	G	N3-C4-C5	-14.72	121.24	128.60
26	BB	763	G	C8-N9-C4	-14.70	100.52	106.40
26	BB	2832	U	O4'-C1'-N1	14.70	119.96	108.20
26	BB	2856	A	O4'-C1'-N9	14.66	119.93	108.20
26	BB	278	A	N7-C8-N9	14.66	121.13	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2219	U	O4'-C1'-N1	14.64	119.92	108.20
1	AA	388	G	O4'-C1'-N9	14.62	119.89	108.20
26	BB	940	G	C5-C6-O6	-14.62	119.83	128.60
1	AA	882	C	O4'-C1'-N1	14.61	119.89	108.20
26	BB	1646	C	C5-C6-N1	14.60	128.30	121.00
26	BB	1101	U	O4'-C1'-N1	14.60	119.88	108.20
26	BB	1343	G	C8-N9-C4	-14.59	100.56	106.40
26	BB	24	G	C5-C6-N1	14.59	118.79	111.50
26	BB	1075	C	O4'-C1'-N1	14.57	119.86	108.20
26	BB	623	C	C2-N3-C4	14.56	127.18	119.90
26	BB	2597	G	C8-N9-C4	-14.56	100.57	106.40
26	BB	2556	C	N3-C4-C5	-14.56	116.08	121.90
26	BB	423	A	N1-C6-N6	-14.55	109.87	118.60
5	AE	136	ARG	NE-CZ-NH1	14.55	127.57	120.30
26	BB	2003	A	C5-N7-C8	-14.54	96.63	103.90
1	AA	238	A	C2-N3-C4	14.53	117.87	110.60
26	BB	2535	G	O4'-C1'-N9	14.53	119.83	108.20
26	BB	177	G	C2-N3-C4	14.53	119.16	111.90
26	BB	2763	G	C8-N9-C4	-14.52	100.59	106.40
1	AA	785	G	C8-N9-C4	-14.52	100.59	106.40
26	BB	1556	C	C6-N1-C2	-14.51	114.50	120.30
26	BB	1285	A	N1-C2-N3	-14.50	122.05	129.30
26	BB	1578	U	C5-C4-O4	-14.50	117.20	125.90
10	AJ	94	ARG	NE-CZ-NH1	14.48	127.54	120.30
26	BB	300	A	C8-N9-C4	-14.48	100.01	105.80
1	AA	1379	G	N3-C4-C5	-14.48	121.36	128.60
26	BB	1400	U	O4'-C1'-N1	14.48	119.78	108.20
1	AA	528	C	C6-N1-C2	-14.47	114.51	120.30
1	AA	191	G	C8-N9-C4	-14.47	100.61	106.40
26	BB	1763	G	C8-N9-C4	-14.47	100.61	106.40
26	BB	890	C	C6-N1-C2	-14.46	114.52	120.30
26	BB	1465	G	N9-C4-C5	14.41	111.16	105.40
1	AA	1041	G	N9-C4-C5	14.41	111.16	105.40
1	AA	1037	C	C6-N1-C2	-14.40	114.54	120.30
26	BB	549	G	C2-N3-C4	14.39	119.09	111.90
26	BB	1553	A	O4'-C1'-N9	14.38	119.70	108.20
26	BB	2323	G	N3-C4-C5	-14.38	121.41	128.60
1	AA	488	C	C6-N1-C2	-14.37	114.55	120.30
26	BB	2316	G	C8-N9-C4	-14.34	100.66	106.40
1	AA	21	G	C8-N9-C4	-14.34	100.66	106.40
43	BS	91	ARG	NE-CZ-NH1	14.34	127.47	120.30
26	BB	2714	G	O4'-C1'-N9	14.33	119.67	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	968	C	O4'-C1'-N1	14.33	119.66	108.20
1	AA	1294	G	N7-C8-N9	14.33	120.26	113.10
28	BD	268	ARG	NE-CZ-NH2	-14.32	113.14	120.30
26	BB	2137	U	O4'-C1'-N1	14.32	119.66	108.20
26	BB	2631	G	C8-N9-C4	-14.31	100.67	106.40
26	BB	2027	G	C8-N9-C4	-14.31	100.68	106.40
1	AA	402	G	C5-N7-C8	-14.31	97.14	104.30
26	BB	969	G	O4'-C1'-N9	14.30	119.64	108.20
25	BA	7	G	C6-C5-N7	-14.30	121.82	130.40
39	BO	114	ARG	NE-CZ-NH1	14.30	127.45	120.30
26	BB	362	A	C2-N3-C4	14.29	117.75	110.60
26	BB	549	G	N3-C4-N9	14.29	134.57	126.00
26	BB	414	C	N3-C4-N4	14.29	128.00	118.00
58	B7	4	ARG	NE-CZ-NH2	-14.29	113.16	120.30
26	BB	2856	A	C5-C6-N1	14.27	124.83	117.70
26	BB	1769	U	O4'-C1'-N1	14.27	119.61	108.20
1	AA	78	A	C8-N9-C4	-14.26	100.09	105.80
26	BB	80	G	O4'-C1'-N9	14.26	119.61	108.20
26	BB	436	C	O4'-C1'-N1	14.25	119.60	108.20
26	BB	1684	G	C6-C5-N7	-14.25	121.85	130.40
42	BR	71	ARG	NE-CZ-NH2	-14.25	113.17	120.30
26	BB	673	C	O4'-C1'-N1	14.25	119.60	108.20
26	BB	1525	A	N1-C2-N3	-14.25	122.18	129.30
26	BB	2004	G	C2-N3-C4	14.24	119.02	111.90
1	AA	628	G	N9-C4-C5	14.24	111.09	105.40
1	AA	530	G	O4'-C1'-N9	14.23	119.59	108.20
1	AA	761	G	N3-C4-C5	-14.23	121.48	128.60
1	AA	703	G	O4'-C1'-N9	14.23	119.58	108.20
26	BB	2871	U	O4'-C1'-N1	14.23	119.58	108.20
26	BB	75	G	C2-N3-C4	14.22	119.01	111.90
26	BB	597	G	O4'-C1'-N9	14.22	119.57	108.20
26	BB	1106	G	O4'-C1'-N9	14.22	119.57	108.20
26	BB	2041	U	N3-C4-O4	14.22	129.35	119.40
26	BB	2763	G	N7-C8-N9	14.21	120.21	113.10
1	AA	506	G	C5-C6-O6	-14.20	120.08	128.60
26	BB	613	A	C2-N3-C4	14.20	117.70	110.60
1	AA	259	G	N3-C4-C5	-14.18	121.51	128.60
26	BB	460	A	N9-C4-C5	14.18	111.47	105.80
1	AA	735	C	O4'-C1'-N1	14.17	119.53	108.20
10	AJ	94	ARG	NE-CZ-NH2	-14.17	113.22	120.30
26	BB	1891	G	C8-N9-C4	-14.17	100.73	106.40
1	AA	682	G	C6-C5-N7	-14.16	121.91	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1181	G	C4-C5-C6	14.16	127.30	118.80
26	BB	1587	G	C4-C5-N7	14.15	116.46	110.80
1	AA	522	C	C3'-C2'-C1'	14.14	112.81	101.50
1	AA	521	G	N3-C4-C5	-14.14	121.53	128.60
1	AA	1465	A	N7-C8-N9	14.13	120.87	113.80
26	BB	683	U	O4'-C1'-N1	14.12	119.50	108.20
26	BB	2495	G	C5-C6-O6	-14.12	120.12	128.60
1	AA	1457	G	N7-C8-N9	14.12	120.16	113.10
25	BA	26	C	C2-N3-C4	14.12	126.96	119.90
26	BB	1807	G	N3-C4-C5	-14.11	121.54	128.60
26	BB	48	G	N3-C4-N9	14.11	134.47	126.00
1	AA	340	U	C5-C4-O4	-14.11	117.44	125.90
26	BB	1452	G	O4'-C4'-C3'	14.11	118.11	104.00
26	BB	541	A	C2-N3-C4	14.10	117.65	110.60
26	BB	2276	G	N9-C4-C5	14.10	111.04	105.40
26	BB	2846	G	O4'-C1'-N9	14.09	119.47	108.20
26	BB	729	G	C4-C5-N7	-14.08	105.17	110.80
26	BB	1985	C	N3-C4-C5	-14.08	116.27	121.90
26	BB	574	A	N1-C6-N6	-14.07	110.16	118.60
1	AA	293	G	C8-N9-C4	-14.06	100.77	106.40
52	B1	44	ARG	NE-CZ-NH2	14.06	127.33	120.30
26	BB	1822	C	C5-C6-N1	14.06	128.03	121.00
25	BA	88	C	O4'-C1'-N1	14.05	119.44	108.20
26	BB	1706	C	O4'-C1'-N1	14.05	119.44	108.20
26	BB	2006	C	C6-N1-C2	-14.04	114.68	120.30
36	BL	120	ARG	NE-CZ-NH1	-14.04	113.28	120.30
1	AA	1041	G	N7-C8-N9	14.04	120.12	113.10
42	BR	97	TYR	CB-CG-CD1	-14.03	112.58	121.00
26	BB	396	G	C4-C5-N7	-14.03	105.19	110.80
26	BB	1161	C	N3-C4-C5	-14.01	116.29	121.90
26	BB	409	G	C4-C5-N7	-14.00	105.20	110.80
1	AA	90	C	N1-C2-O2	14.00	127.30	118.90
1	AA	226	G	C8-N9-C4	-14.00	100.80	106.40
1	AA	276	G	C8-N9-C4	-14.00	100.80	106.40
26	BB	650	C	N3-C4-C5	-14.00	116.30	121.90
26	BB	708	G	C5-N7-C8	-13.99	97.31	104.30
46	BV	77	ARG	NE-CZ-NH2	-13.99	113.31	120.30
1	AA	897	C	N1-C2-O2	13.99	127.29	118.90
10	AJ	3	ARG	NE-CZ-NH1	13.98	127.29	120.30
26	BB	216	A	O4'-C1'-N9	13.98	119.39	108.20
26	BB	846	U	C1'-O4'-C4'	-13.97	98.72	109.90
26	BB	1048	A	N9-C4-C5	13.97	111.39	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BP	112	TYR	CB-CG-CD2	-13.97	112.62	121.00
1	AA	1233	G	N7-C8-N9	13.96	120.08	113.10
16	AP	86	ARG	NE-CZ-NH1	13.96	127.28	120.30
26	BB	1824	G	C5-C6-O6	-13.96	120.23	128.60
1	AA	488	C	N3-C2-O2	-13.95	112.14	121.90
1	AA	1195	C	C6-N1-C2	-13.94	114.72	120.30
1	AA	987	G	C5-N7-C8	13.94	111.27	104.30
25	BA	101	A	C8-N9-C4	-13.94	100.23	105.80
1	AA	575	G	C2-N3-C4	13.93	118.86	111.90
26	BB	2770	G	N7-C8-N9	13.92	120.06	113.10
1	AA	1432	G	C8-N9-C4	-13.92	100.83	106.40
4	AD	3	C	O4'-C1'-N1	13.92	119.34	108.20
44	BT	78	ARG	NE-CZ-NH2	13.92	127.26	120.30
26	BB	418	C	N3-C4-C5	13.92	127.47	121.90
26	BB	473	G	C2-N3-C4	13.91	118.86	111.90
1	AA	1502	A	N9-C4-C5	13.91	111.36	105.80
26	BB	1646	C	C6-N1-C2	-13.91	114.74	120.30
26	BB	1953	A	C8-N9-C4	-13.91	100.24	105.80
26	BB	331	C	C6-N1-C2	-13.90	114.74	120.30
1	AA	227	G	C8-N9-C4	-13.90	100.84	106.40
1	AA	1419	G	C2-N3-C4	13.89	118.85	111.90
26	BB	1312	U	N3-C2-O2	-13.88	112.48	122.20
26	BB	2021	C	C5-C6-N1	13.88	127.94	121.00
26	BB	809	G	N7-C8-N9	13.88	120.04	113.10
26	BB	1282	U	O4'-C1'-N1	13.87	119.30	108.20
1	AA	693	G	O4'-C1'-N9	13.86	119.29	108.20
2	AB	41	C	N3-C4-C5	-13.86	116.36	121.90
26	BB	81	G	O4'-C1'-N9	13.86	119.29	108.20
26	BB	713	G	C8-N9-C4	-13.86	100.86	106.40
2	AB	70	C	O4'-C1'-N1	13.86	119.28	108.20
26	BB	2058	A	C2-N3-C4	13.86	117.53	110.60
1	AA	36	C	N3-C4-C5	-13.85	116.36	121.90
26	BB	460	A	C4-C5-N7	-13.84	103.78	110.70
26	BB	2175	C	O4'-C1'-N1	13.83	119.27	108.20
26	BB	541	A	C4-C5-N7	-13.82	103.79	110.70
26	BB	52	A	C2-N3-C4	13.81	117.50	110.60
1	AA	944	G	C4-C5-N7	-13.79	105.28	110.80
1	AA	1109	C	C6-N1-C2	13.79	125.82	120.30
26	BB	1269	A	C8-N9-C4	-13.78	100.29	105.80
11	AK	83	ARG	NE-CZ-NH2	-13.78	113.41	120.30
26	BB	908	C	O4'-C1'-N1	13.78	119.22	108.20
1	AA	321	A	O4'-C1'-N9	13.75	119.20	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1136	C	N3-C2-O2	-13.75	112.28	121.90
26	BB	578	G	C2-N3-C4	13.75	118.78	111.90
1	AA	1456	A	C2-N3-C4	13.74	117.47	110.60
1	AA	1159	U	C5-C6-N1	-13.73	115.83	122.70
1	AA	1304	G	N3-C4-C5	-13.73	121.74	128.60
26	BB	315	G	N3-C4-C5	-13.73	121.74	128.60
1	AA	861	G	N7-C8-N9	13.72	119.96	113.10
1	AA	1037	C	O4'-C1'-N1	13.72	119.17	108.20
1	AA	107	G	C4-C5-N7	-13.71	105.31	110.80
1	AA	183	C	O4'-C1'-N1	13.71	119.17	108.20
25	BA	12	C	N1-C2-O2	13.71	127.12	118.90
26	BB	250	G	C4-C5-N7	-13.69	105.33	110.80
26	BB	2432	A	N9-C4-C5	13.69	111.28	105.80
25	BA	12	C	N3-C4-C5	-13.68	116.43	121.90
26	BB	2024	G	N9-C4-C5	13.68	110.87	105.40
26	BB	23	G	C4-C5-C6	13.68	127.01	118.80
26	BB	2365	G	N9-C4-C5	13.67	110.87	105.40
1	AA	67	C	O4'-C1'-N1	13.67	119.13	108.20
26	BB	2443	C	O4'-C1'-N1	13.66	119.13	108.20
26	BB	2750	A	C8-N9-C4	-13.66	100.33	105.80
1	AA	1385	G	C5-C6-N1	13.66	118.33	111.50
26	BB	933	A	N9-C4-C5	13.66	111.26	105.80
26	BB	2409	G	C4-C5-N7	13.66	116.26	110.80
1	AA	963	G	C5-C6-O6	-13.64	120.41	128.60
26	BB	2460	U	C4-C5-C6	13.63	127.88	119.70
1	AA	812	G	C4-C5-N7	13.63	116.25	110.80
26	BB	52	A	N1-C2-N3	-13.63	122.48	129.30
26	BB	2579	C	C6-N1-C2	-13.63	114.85	120.30
26	BB	409	G	C8-N9-C4	-13.63	100.95	106.40
26	BB	1467	U	C5-C6-N1	-13.63	115.89	122.70
26	BB	1502	A	N1-C2-N3	-13.62	122.49	129.30
26	BB	1473	G	C5-C6-N1	13.62	118.31	111.50
26	BB	2428	G	C8-N9-C4	-13.62	100.95	106.40
1	AA	1501	C	N1-C2-O2	13.61	127.07	118.90
26	BB	264	C	N3-C4-C5	-13.61	116.46	121.90
26	BB	2887	A	C8-N9-C4	-13.60	100.36	105.80
26	BB	247	G	C4-C5-N7	-13.60	105.36	110.80
25	BA	112	G	N1-C6-O6	-13.60	111.74	119.90
1	AA	958	A	N9-C4-C5	-13.60	100.36	105.80
26	BB	1115	G	C4-C5-N7	-13.60	105.36	110.80
26	BB	1520	U	O4'-C1'-N1	13.59	119.08	108.20
1	AA	77	A	O4'-C1'-N9	13.59	119.07	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	224	U	O4'-C1'-N1	13.57	119.06	108.20
26	BB	1721	G	C8-N9-C4	-13.57	100.97	106.40
26	BB	1210	G	C8-N9-C4	-13.57	100.97	106.40
26	BB	50	U	O4'-C1'-N1	13.56	119.05	108.20
26	BB	342	A	N1-C2-N3	-13.56	122.52	129.30
26	BB	2015	A	C8-N9-C4	-13.56	100.38	105.80
26	BB	5	A	N1-C2-N3	-13.56	122.52	129.30
26	BB	2057	G	C6-C5-N7	13.56	138.53	130.40
1	AA	402	G	N3-C4-C5	-13.55	121.83	128.60
1	AA	667	G	C8-N9-C4	-13.54	100.99	106.40
26	BB	1156	A	C8-N9-C4	-13.53	100.39	105.80
1	AA	321	A	C5-N7-C8	13.53	110.66	103.90
26	BB	762	U	O4'-C1'-N1	13.53	119.02	108.20
1	AA	1185	G	N3-C4-C5	-13.52	121.84	128.60
10	AJ	52	ARG	NE-CZ-NH1	13.52	127.06	120.30
33	BI	50	ARG	NE-CZ-NH1	13.52	127.06	120.30
1	AA	82	G	C5-N7-C8	-13.51	97.54	104.30
26	BB	2588	G	N3-C2-N2	-13.51	110.44	119.90
1	AA	997	U	O4'-C1'-N1	13.51	119.01	108.20
1	AA	699	C	N1-C2-O2	13.51	127.00	118.90
1	AA	1158	C	C6-N1-C2	-13.50	114.90	120.30
4	AD	53	G	N3-C2-N2	-13.50	110.45	119.90
26	BB	817	C	N1-C2-O2	13.50	127.00	118.90
1	AA	806	C	O4'-C1'-N1	13.50	119.00	108.20
1	AA	595	A	C8-N9-C4	-13.49	100.40	105.80
26	BB	2411	A	C8-N9-C4	-13.49	100.41	105.80
1	AA	238	A	C5-C6-N1	13.47	124.44	117.70
26	BB	342	A	C2-N3-C4	13.47	117.33	110.60
26	BB	69	C	C4-C5-C6	13.46	124.13	117.40
1	AA	205	A	C2-N3-C4	13.46	117.33	110.60
1	AA	670	G	C8-N9-C4	-13.46	101.02	106.40
36	BL	13	ARG	NE-CZ-NH2	13.45	127.03	120.30
26	BB	734	A	O4'-C1'-N9	13.44	118.95	108.20
26	BB	1515	A	N7-C8-N9	-13.44	107.08	113.80
11	AK	12	ARG	NE-CZ-NH1	13.44	127.02	120.30
25	BA	25	U	C2-N3-C4	-13.44	118.94	127.00
26	BB	473	G	N3-C4-C5	-13.43	121.89	128.60
26	BB	1679	A	O4'-C1'-N9	13.43	118.94	108.20
26	BB	2071	A	C5-N7-C8	13.42	110.61	103.90
26	BB	2283	C	O4'-C1'-N1	13.42	118.94	108.20
45	BU	110	ARG	NE-CZ-NH1	-13.41	113.59	120.30
13	AM	31	ARG	NE-CZ-NH1	13.40	127.00	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	98	G	C4-C5-N7	-13.40	105.44	110.80
29	BE	77	ARG	NE-CZ-NH1	-13.40	113.60	120.30
1	AA	1341	U	O4'-C1'-N1	13.39	118.91	108.20
26	BB	1098	A	N9-C4-C5	13.39	111.16	105.80
1	AA	1184	G	C5-N7-C8	-13.39	97.61	104.30
26	BB	1314	C	N3-C4-C5	-13.39	116.55	121.90
26	BB	2066	C	O4'-C1'-N1	13.38	118.91	108.20
26	BB	2520	C	N3-C4-C5	-13.38	116.55	121.90
26	BB	1787	A	C8-N9-C4	-13.38	100.45	105.80
26	BB	867	C	C5-C6-N1	-13.38	114.31	121.00
1	AA	351	G	N7-C8-N9	13.38	119.79	113.10
1	AA	835	U	C5-C6-N1	-13.37	116.01	122.70
26	BB	2029	G	C2-N3-C4	13.38	118.59	111.90
26	BB	425	G	C8-N9-C4	-13.37	101.05	106.40
26	BB	1074	G	O4'-C1'-N9	13.37	118.90	108.20
1	AA	312	C	N1-C2-O2	13.37	126.92	118.90
1	AA	667	G	N9-C4-C5	13.37	110.75	105.40
26	BB	8	C	N3-C4-C5	-13.37	116.55	121.90
26	BB	586	A	C5-N7-C8	13.36	110.58	103.90
26	BB	1411	U	O4'-C1'-N1	13.36	118.89	108.20
26	BB	2356	U	N1-C2-N3	13.36	122.91	114.90
26	BB	2047	C	O4'-C1'-N1	13.35	118.88	108.20
1	AA	316	C	O4'-C1'-N1	13.35	118.88	108.20
26	BB	1956	U	O4'-C1'-N1	13.35	118.88	108.20
26	BB	2405	G	O4'-C1'-N9	13.34	118.88	108.20
26	BB	2663	G	N3-C4-C5	-13.34	121.93	128.60
26	BB	1337	G	N3-C4-C5	-13.33	121.93	128.60
26	BB	2454	G	C8-N9-C4	-13.33	101.07	106.40
1	AA	1416	G	C4-C5-N7	-13.33	105.47	110.80
1	AA	805	C	C2-N3-C4	13.33	126.56	119.90
26	BB	865	C	C5-C6-N1	13.33	127.67	121.00
25	BA	104	A	C5-N7-C8	13.32	110.56	103.90
1	AA	1102	A	C8-N9-C4	-13.32	100.47	105.80
25	BA	107	G	N9-C4-C5	13.32	110.73	105.40
26	BB	966	G	N9-C4-C5	13.32	110.73	105.40
26	BB	1185	G	C5-C6-O6	-13.32	120.61	128.60
26	BB	2309	A	O4'-C1'-N9	13.32	118.86	108.20
26	BB	2428	G	N9-C4-C5	13.31	110.73	105.40
1	AA	735	C	C6-N1-C2	-13.31	114.98	120.30
26	BB	611	C	O4'-C1'-N1	13.30	118.84	108.20
26	BB	1166	G	C8-N9-C4	-13.30	101.08	106.40
1	AA	919	A	C5-C6-N1	-13.29	111.05	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2838	G	C8-N9-C4	-13.29	101.08	106.40
1	AA	442	G	C2-N3-C4	13.29	118.55	111.90
26	BB	2416	C	C6-N1-C2	-13.29	114.98	120.30
26	BB	2582	G	N3-C4-C5	-13.29	121.95	128.60
26	BB	2528	U	O4'-C1'-N1	13.29	118.83	108.20
26	BB	905	A	C8-N9-C4	-13.29	100.48	105.80
26	BB	2777	G	C5-C6-O6	-13.28	120.64	128.60
10	AJ	110	ARG	NE-CZ-NH2	-13.27	113.66	120.30
1	AA	277	C	O4'-C1'-N1	13.27	118.81	108.20
1	AA	1415	G	O4'-C1'-N9	13.27	118.81	108.20
1	AA	1339	A	C5-N7-C8	13.27	110.53	103.90
26	BB	1543	G	C8-N9-C4	-13.26	101.09	106.40
26	BB	2745	C	N1-C2-O2	13.26	126.85	118.90
44	BT	79	ARG	NE-CZ-NH2	13.26	126.93	120.30
1	AA	919	A	C6-N1-C2	13.25	126.55	118.60
1	AA	1378	C	C5-C4-N4	13.25	129.48	120.20
26	BB	623	C	O4'-C1'-N1	13.25	118.80	108.20
26	BB	742	A	O4'-C1'-N9	13.25	118.80	108.20
26	BB	954	G	C5-N7-C8	-13.25	97.68	104.30
1	AA	1465	A	C8-N9-C4	-13.24	100.50	105.80
26	BB	518	G	C8-N9-C4	-13.23	101.11	106.40
1	AA	1082	A	N1-C6-N6	-13.23	110.66	118.60
26	BB	1197	G	N3-C4-N9	13.23	133.94	126.00
26	BB	2582	G	C2-N3-C4	13.23	118.52	111.90
2	AB	75	C	N3-C4-C5	-13.22	116.61	121.90
26	BB	491	G	N1-C6-O6	13.22	127.83	119.90
1	AA	335	C	N3-C4-C5	-13.22	116.61	121.90
26	BB	2009	A	N7-C8-N9	13.22	120.41	113.80
2	AB	34	C	N3-C4-C5	-13.21	116.61	121.90
26	BB	1731	G	C8-N9-C4	-13.21	101.11	106.40
1	AA	595	A	N7-C8-N9	13.21	120.41	113.80
26	BB	1990	C	N3-C4-C5	-13.21	116.62	121.90
26	BB	1382	G	C8-N9-C4	-13.20	101.12	106.40
26	BB	2719	G	N3-C4-C5	-13.21	122.00	128.60
26	BB	2795	C	C2-N3-C4	13.21	126.50	119.90
1	AA	833	G	N7-C8-N9	13.20	119.70	113.10
26	BB	1359	A	O4'-C1'-N9	13.20	118.76	108.20
1	AA	682	G	N3-C4-C5	-13.19	122.00	128.60
1	AA	226	G	N9-C4-C5	13.19	110.68	105.40
1	AA	1422	G	N9-C4-C5	13.19	110.67	105.40
26	BB	1514	G	C5-C6-O6	-13.18	120.69	128.60
26	BB	116	C	O4'-C1'-N1	13.18	118.74	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	894	U	C5-C6-N1	-13.18	116.11	122.70
26	BB	1473	G	C6-N1-C2	-13.18	117.19	125.10
2	AB	39	A	C8-N9-C4	-13.18	100.53	105.80
26	BB	2862	G	C5-C6-N1	13.18	118.09	111.50
26	BB	2352	A	C2-N3-C4	13.17	117.19	110.60
1	AA	1399	C	O4'-C1'-N1	13.17	118.74	108.20
26	BB	2377	A	N1-C6-N6	13.17	126.50	118.60
26	BB	1141	U	O4'-C1'-N1	13.17	118.73	108.20
26	BB	157	C	O4'-C1'-N1	13.17	118.73	108.20
26	BB	2687	U	C5-C4-O4	-13.17	118.00	125.90
26	BB	498	G	N3-C4-C5	-13.16	122.02	128.60
26	BB	1215	G	C5-C6-O6	13.16	136.49	128.60
26	BB	2531	A	C8-N9-C4	-13.15	100.54	105.80
1	AA	1094	G	N9-C4-C5	13.15	110.66	105.40
26	BB	2535	G	C4-C5-N7	-13.15	105.54	110.80
26	BB	626	A	C8-N9-C4	-13.15	100.54	105.80
26	BB	2057	G	C5-N7-C8	13.15	110.87	104.30
1	AA	1086	U	O4'-C1'-N1	13.14	118.71	108.20
26	BB	2579	C	C5-C6-N1	13.14	127.57	121.00
1	AA	324	G	C4-C5-N7	13.14	116.06	110.80
26	BB	2263	C	N3-C4-C5	-13.14	116.64	121.90
26	BB	268	C	O4'-C1'-N1	13.14	118.71	108.20
26	BB	1491	G	C4-C5-N7	-13.13	105.55	110.80
26	BB	565	C	N1-C2-O2	13.13	126.78	118.90
26	BB	2036	C	O4'-C1'-N1	13.13	118.70	108.20
26	BB	536	G	O4'-C1'-N9	13.13	118.70	108.20
29	BE	124	ARG	NE-CZ-NH2	13.12	126.86	120.30
1	AA	1366	C	C6-N1-C2	-13.12	115.05	120.30
26	BB	1674	G	N3-C4-C5	-13.12	122.04	128.60
1	AA	1163	A	N1-C2-N3	-13.11	122.74	129.30
41	BQ	36	TYR	CB-CG-CD1	-13.11	113.13	121.00
26	BB	1069	A	O4'-C1'-N9	13.11	118.69	108.20
26	BB	2087	G	C2-N3-C4	13.10	118.45	111.90
26	BB	634	C	N3-C4-C5	-13.09	116.66	121.90
25	BA	114	C	C6-N1-C2	-13.08	115.07	120.30
26	BB	1109	C	N3-C4-C5	-13.08	116.67	121.90
2	AB	75	C	N1-C2-O2	13.08	126.75	118.90
26	BB	1256	G	N3-C4-C5	-13.08	122.06	128.60
26	BB	2490	G	C8-N9-C4	-13.08	101.17	106.40
26	BB	1674	G	C2-N3-C4	13.08	118.44	111.90
26	BB	1831	G	C8-N9-C4	-13.08	101.17	106.40
26	BB	842	U	C2-N3-C4	-13.07	119.16	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2370	G	N3-C2-N2	13.06	129.05	119.90
26	BB	2631	G	N7-C8-N9	13.06	119.63	113.10
26	BB	180	G	N9-C4-C5	13.06	110.62	105.40
45	BU	25	ARG	NE-CZ-NH1	13.06	126.83	120.30
1	AA	179	A	N1-C6-N6	-13.06	110.77	118.60
26	BB	590	A	C4-C5-C6	-13.06	110.47	117.00
26	BB	1000	A	C5'-C4'-O4'	13.06	124.77	109.10
34	BJ	61	ARG	NE-CZ-NH2	-13.06	113.77	120.30
26	BB	1607	C	N3-C4-N4	13.05	127.14	118.00
26	BB	1419	A	N7-C8-N9	-13.05	107.27	113.80
40	BP	17	ARG	NE-CZ-NH1	13.05	126.83	120.30
26	BB	1337	G	N3-C4-N9	13.04	133.82	126.00
26	BB	277	G	C5-C6-O6	-13.03	120.78	128.60
26	BB	2788	C	C5-C6-N1	13.02	127.51	121.00
1	AA	1010	U	N3-C4-O4	13.02	128.51	119.40
26	BB	811	U	O4'-C1'-N1	13.02	118.61	108.20
26	BB	1226	A	N9-C4-C5	13.01	111.00	105.80
26	BB	2572	A	O4'-C1'-N9	13.01	118.60	108.20
1	AA	1308	U	O4'-C1'-N1	13.00	118.60	108.20
26	BB	418	C	O4'-C1'-N1	13.00	118.60	108.20
26	BB	910	A	C8-N9-C4	-13.00	100.60	105.80
26	BB	2366	A	C5-N7-C8	-13.00	97.40	103.90
26	BB	2406	A	C8-N9-C4	13.00	111.00	105.80
1	AA	270	A	O4'-C1'-N9	13.00	118.60	108.20
26	BB	4	U	N3-C4-O4	13.00	128.50	119.40
1	AA	902	G	C5-C6-O6	-13.00	120.80	128.60
18	AR	87	ARG	NE-CZ-NH1	13.00	126.80	120.30
26	BB	2253	G	N7-C8-N9	13.00	119.60	113.10
12	AL	94	ARG	NE-CZ-NH2	-12.99	113.81	120.30
26	BB	271	G	C4-C5-N7	-12.99	105.61	110.80
1	AA	626	G	C8-N9-C4	-12.98	101.21	106.40
26	BB	2415	G	C4-C5-N7	-12.98	105.61	110.80
26	BB	2008	C	C4-C5-C6	-12.98	110.91	117.40
1	AA	234	C	N1-C2-O2	12.98	126.69	118.90
1	AA	1326	U	O4'-C1'-N1	12.97	118.58	108.20
1	AA	1392	G	N7-C8-N9	-12.97	106.61	113.10
1	AA	1348	U	O4'-C1'-N1	12.97	118.57	108.20
1	AA	1406	U	O4'-C1'-N1	12.97	118.57	108.20
1	AA	21	G	N9-C4-C5	12.97	110.59	105.40
1	AA	418	C	N3-C4-C5	-12.96	116.72	121.90
26	BB	1896	G	C2-N3-C4	12.96	118.38	111.90
26	BB	2398	U	C4-C5-C6	12.96	127.48	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	328	C	N3-C4-C5	-12.96	116.72	121.90
1	AA	1088	G	C8-N9-C4	-12.96	101.22	106.40
26	BB	692	C	N3-C4-C5	-12.95	116.72	121.90
26	BB	2024	G	C8-N9-C4	-12.95	101.22	106.40
43	BS	49	ARG	NE-CZ-NH1	12.95	126.77	120.30
3	AC	57	C	O4'-C1'-N1	12.94	118.55	108.20
4	AD	76	C	N1-C2-O2	12.94	126.67	118.90
26	BB	2217	G	C8-N9-C4	-12.94	101.23	106.40
1	AA	83	C	O4'-C1'-N1	12.93	118.54	108.20
26	BB	2410	G	C4-C5-N7	-12.93	105.63	110.80
2	AB	29	G	N7-C8-N9	12.92	119.56	113.10
25	BA	69	G	C4-C5-N7	-12.92	105.63	110.80
1	AA	143	A	N1-C2-N3	-12.91	122.84	129.30
1	AA	1458	G	N7-C8-N9	12.91	119.56	113.10
1	AA	1047	G	N3-C4-C5	-12.91	122.14	128.60
4	AD	53	G	C4-C5-N7	-12.91	105.64	110.80
2	AB	34	C	C6-N1-C2	-12.90	115.14	120.30
26	BB	2260	C	O4'-C1'-N1	12.90	118.52	108.20
26	BB	1373	A	O4'-C1'-N9	12.90	118.52	108.20
26	BB	1975	G	O4'-C1'-N9	12.90	118.52	108.20
26	BB	709	U	C5-C4-O4	-12.90	118.16	125.90
1	AA	525	C	N3-C4-C5	-12.89	116.74	121.90
26	BB	1746	A	O4'-C1'-N9	12.89	118.51	108.20
26	BB	2222	C	O4'-C1'-N1	12.89	118.51	108.20
26	BB	1407	G	C8-N9-C4	-12.89	101.24	106.40
26	BB	1912	A	N1-C2-N3	-12.89	122.86	129.30
26	BB	1935	G	N1-C6-O6	-12.88	112.17	119.90
1	AA	149	A	C2-N3-C4	12.88	117.04	110.60
26	BB	278	A	C8-N9-C4	-12.87	100.65	105.80
26	BB	1128	G	N9-C4-C5	12.86	110.55	105.40
1	AA	1223	C	N1-C2-O2	12.86	126.62	118.90
26	BB	431	U	C5-C6-N1	-12.86	116.27	122.70
1	AA	1110	A	C8-N9-C4	-12.86	100.66	105.80
26	BB	498	G	C2-N3-C4	12.86	118.33	111.90
26	BB	1251	C	C6-N1-C2	-12.86	115.16	120.30
26	BB	271	G	N9-C4-C5	12.86	110.54	105.40
26	BB	1619	G	C2-N3-C4	12.86	118.33	111.90
1	AA	985	C	O4'-C1'-N1	12.85	118.48	108.20
1	AA	1209	C	N3-C4-C5	-12.85	116.76	121.90
26	BB	273	G	C5-N7-C8	-12.85	97.87	104.30
26	BB	521	U	N1-C2-N3	12.85	122.61	114.90
26	BB	1620	G	N9-C4-C5	12.85	110.54	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	354	G	C8-N9-C4	-12.85	101.26	106.40
26	BB	2546	U	N1-C2-N3	12.85	122.61	114.90
26	BB	103	A	C8-N9-C4	-12.84	100.66	105.80
26	BB	23	G	C8-N9-C4	-12.84	101.26	106.40
26	BB	2293	G	C2-N3-C4	12.84	118.32	111.90
26	BB	1553	A	C5-N7-C8	12.84	110.32	103.90
26	BB	2772	C	N1-C2-O2	12.83	126.60	118.90
26	BB	179	C	N3-C4-N4	12.82	126.98	118.00
26	BB	2165	C	N3-C2-O2	-12.82	112.92	121.90
26	BB	1478	G	C5-C6-O6	-12.82	120.91	128.60
1	AA	1369	C	N3-C2-O2	-12.81	112.93	121.90
26	BB	2512	C	C2-N3-C4	12.81	126.31	119.90
1	AA	1508	A	N9-C4-C5	12.80	110.92	105.80
26	BB	1588	G	C2-N3-C4	12.80	118.30	111.90
1	AA	632	U	C5-C4-O4	-12.80	118.22	125.90
1	AA	686	U	O4'-C1'-N1	12.79	118.44	108.20
26	BB	293	U	O4'-C1'-N1	12.79	118.43	108.20
26	BB	338	G	N7-C8-N9	12.79	119.50	113.10
26	BB	690	G	N9-C4-C5	12.79	110.52	105.40
26	BB	1594	U	O4'-C1'-N1	12.79	118.43	108.20
26	BB	2599	G	C8-N9-C4	-12.79	101.28	106.40
1	AA	1181	G	C6-C5-N7	-12.78	122.73	130.40
26	BB	1088	A	C8-N9-C4	-12.78	100.69	105.80
26	BB	2374	C	C5-C4-N4	12.78	129.15	120.20
19	AS	56	ARG	NE-CZ-NH1	12.78	126.69	120.30
1	AA	1502	A	C8-N9-C4	-12.76	100.70	105.80
26	BB	1546	G	N9-C4-C5	12.76	110.50	105.40
26	BB	987	C	N3-C4-N4	12.76	126.93	118.00
26	BB	960	A	N9-C4-C5	12.75	110.90	105.80
26	BB	941	A	C8-N9-C4	-12.75	100.70	105.80
26	BB	1809	A	C8-N9-C4	-12.75	100.70	105.80
26	BB	2293	G	N3-C4-C5	-12.75	122.22	128.60
26	BB	1478	G	C5-C6-N1	12.75	117.87	111.50
1	AA	364	A	N9-C4-C5	12.74	110.90	105.80
1	AA	1028	C	C2-N3-C4	12.73	126.27	119.90
26	BB	2323	G	C8-N9-C4	-12.73	101.31	106.40
26	BB	769	U	N3-C4-O4	12.73	128.31	119.40
1	AA	109	A	C2-N3-C4	-12.73	104.23	110.60
26	BB	543	G	N9-C4-C5	12.73	110.49	105.40
1	AA	206	C	C5'-C4'-O4'	12.73	124.38	109.10
1	AA	353	A	N1-C2-N3	-12.73	122.94	129.30
26	BB	1385	A	N9-C4-C5	12.73	110.89	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2819	G	C2-N3-C4	12.72	118.26	111.90
26	BB	1508	A	O4'-C1'-N9	12.72	118.38	108.20
1	AA	1471	U	O4'-C1'-N1	12.71	118.37	108.20
26	BB	55	G	C5-C6-N1	12.71	117.86	111.50
12	AL	108	ARG	NE-CZ-NH2	-12.71	113.95	120.30
3	AC	15	G	C8-N9-C4	-12.70	101.32	106.40
1	AA	1214	C	C2-N3-C4	12.70	126.25	119.90
26	BB	2088	A	C8-N9-C4	-12.70	100.72	105.80
26	BB	539	G	C4-C5-N7	12.70	115.88	110.80
26	BB	2040	G	N3-C4-C5	-12.70	122.25	128.60
26	BB	865	C	C2-N3-C4	12.69	126.25	119.90
26	BB	1970	A	N1-C2-N3	-12.69	122.95	129.30
26	BB	2368	C	O4'-C1'-N1	12.69	118.35	108.20
26	BB	1362	C	O4'-C1'-N1	12.69	118.35	108.20
1	AA	1168	U	N1-C2-N3	12.69	122.51	114.90
1	AA	1020	G	N9-C4-C5	12.68	110.47	105.40
26	BB	2758	A	C4-C5-C6	-12.68	110.66	117.00
26	BB	2021	C	N1-C2-O2	12.68	126.50	118.90
26	BB	1098	A	C8-N9-C4	-12.67	100.73	105.80
26	BB	2610	C	N3-C4-C5	-12.67	116.83	121.90
1	AA	871	U	O4'-C1'-N1	12.66	118.33	108.20
26	BB	720	U	C4-C5-C6	12.66	127.30	119.70
26	BB	1772	A	C2-N3-C4	12.65	116.93	110.60
26	BB	375	G	C8-N9-C4	-12.65	101.34	106.40
1	AA	28	A	O4'-C1'-N9	12.65	118.32	108.20
26	BB	303	G	C5-N7-C8	-12.65	97.97	104.30
26	BB	450	G	O4'-C1'-N9	12.65	118.32	108.20
26	BB	2409	G	C5-N7-C8	-12.65	97.98	104.30
47	BW	6	ARG	NE-CZ-NH1	12.64	126.62	120.30
1	AA	557	G	N7-C8-N9	12.64	119.42	113.10
2	AB	53	G	C8-N9-C4	-12.64	101.34	106.40
26	BB	2624	G	C6-N1-C2	-12.64	117.52	125.10
26	BB	2638	G	C4-C5-N7	-12.64	105.75	110.80
1	AA	308	C	O4'-C1'-N1	12.63	118.31	108.20
26	BB	861	A	O4'-C1'-N9	12.63	118.31	108.20
1	AA	1237	C	C5-C6-N1	-12.63	114.68	121.00
26	BB	397	U	O4'-C1'-N1	12.63	118.30	108.20
26	BB	2021	C	O4'-C1'-N1	12.62	118.30	108.20
26	BB	1751	U	O4'-C1'-N1	12.62	118.30	108.20
1	AA	988	G	N3-C4-C5	-12.62	122.29	128.60
1	AA	997	U	N3-C4-O4	12.62	128.23	119.40
26	BB	2063	C	C3'-C2'-C1'	12.62	111.59	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	49	U	O4'-C1'-N1	12.62	118.29	108.20
26	BB	1846	G	N3-C4-C5	-12.61	122.29	128.60
1	AA	1157	A	C5-C6-N1	12.61	124.01	117.70
43	BS	63	ARG	NE-CZ-NH1	12.61	126.61	120.30
26	BB	431	U	C4-C5-C6	12.61	127.26	119.70
1	AA	493	A	N9-C4-C5	-12.60	100.76	105.80
49	BY	76	ARG	NE-CZ-NH2	12.60	126.60	120.30
26	BB	1891	G	N9-C4-C5	12.60	110.44	105.40
1	AA	1003	G	N9-C4-C5	12.60	110.44	105.40
26	BB	2597	G	N1-C6-O6	-12.60	112.34	119.90
1	AA	1136	C	N1-C2-O2	12.60	126.46	118.90
26	BB	225	C	O4'-C1'-N1	12.60	118.28	108.20
26	BB	1254	A	N7-C8-N9	-12.60	107.50	113.80
1	AA	109	A	O4'-C1'-N9	12.59	118.27	108.20
26	BB	1399	C	O4'-C1'-N1	12.59	118.27	108.20
26	BB	1343	G	N7-C8-N9	12.59	119.39	113.10
1	AA	833	G	N3-C2-N2	-12.59	111.09	119.90
1	AA	1470	U	C2-N3-C4	-12.59	119.45	127.00
26	BB	1115	G	C8-N9-C4	-12.59	101.36	106.40
1	AA	1244	G	C2-N3-C4	12.58	118.19	111.90
1	AA	803	G	C5-C6-O6	-12.58	121.05	128.60
25	BA	4	C	N3-C4-C5	-12.58	116.87	121.90
26	BB	101	A	N1-C6-N6	12.58	126.15	118.60
26	BB	414	C	C5-C4-N4	-12.58	111.40	120.20
1	AA	383	A	C4-C5-N7	-12.57	104.41	110.70
4	AD	12	G	O4'-C1'-N9	12.57	118.26	108.20
26	BB	303	G	N3-C4-C5	-12.57	122.31	128.60
26	BB	2496	C	C5-C6-N1	-12.57	114.71	121.00
1	AA	469	C	N3-C2-O2	-12.57	113.10	121.90
1	AA	944	G	N9-C4-C5	12.57	110.43	105.40
26	BB	901	C	C6-N1-C2	-12.57	115.27	120.30
26	BB	2729	G	N9-C4-C5	12.57	110.43	105.40
26	BB	2107	G	C4-C5-N7	-12.57	105.77	110.80
26	BB	2428	G	C4-C5-N7	-12.57	105.77	110.80
1	AA	939	G	C4-C5-N7	-12.56	105.77	110.80
1	AA	537	G	C5-C6-O6	-12.56	121.06	128.60
26	BB	1953	A	N1-C2-N3	-12.56	123.02	129.30
1	AA	1392	G	C5-N7-C8	12.56	110.58	104.30
26	BB	952	G	N3-C2-N2	12.56	128.69	119.90
1	AA	1072	G	N1-C6-O6	-12.55	112.37	119.90
26	BB	1568	G	C8-N9-C4	-12.55	101.38	106.40
26	BB	1950	G	C8-N9-C4	-12.55	101.38	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1354	A	C8-N9-C4	-12.54	100.78	105.80
1	AA	1290	G	C6-C5-N7	-12.54	122.88	130.40
26	BB	1662	U	O4'-C1'-N1	12.54	118.23	108.20
26	BB	1679	A	C5-N7-C8	12.54	110.17	103.90
1	AA	709	U	O4'-C1'-N1	12.53	118.22	108.20
1	AA	818	G	C4-C5-N7	12.53	115.81	110.80
26	BB	2276	G	C4-C5-C6	12.53	126.32	118.80
26	BB	2289	G	N3-C4-N9	12.53	133.52	126.00
1	AA	1464	U	O4'-C1'-N1	12.52	118.22	108.20
1	AA	323	U	C5-C4-O4	-12.52	118.39	125.90
25	BA	54	G	C6-N1-C2	-12.51	117.59	125.10
26	BB	24	G	C2-N3-C4	12.51	118.16	111.90
26	BB	332	A	N9-C4-C5	12.51	110.81	105.80
1	AA	258	G	C5-C6-O6	-12.51	121.09	128.60
26	BB	515	A	C4-C5-N7	12.50	116.95	110.70
26	BB	728	G	C8-N9-C4	-12.50	101.40	106.40
26	BB	2047	C	C3'-C2'-C1'	12.50	111.50	101.50
26	BB	2631	G	C5-N7-C8	-12.50	98.05	104.30
1	AA	1256	A	N1-C2-N3	-12.50	123.05	129.30
26	BB	1457	U	O4'-C1'-N1	12.50	118.20	108.20
26	BB	2393	U	N3-C2-O2	-12.50	113.45	122.20
26	BB	2427	C	N3-C2-O2	-12.50	113.15	121.90
25	BA	9	G	C8-N9-C4	-12.49	101.40	106.40
1	AA	624	C	C4-C5-C6	-12.49	111.16	117.40
26	BB	710	U	O4'-C1'-N1	12.49	118.19	108.20
26	BB	785	G	C2-N3-C4	12.49	118.14	111.90
1	AA	9	G	O4'-C1'-N9	12.48	118.19	108.20
1	AA	76	G	C4-C5-N7	12.48	115.79	110.80
1	AA	303	A	C2-N3-C4	12.48	116.84	110.60
26	BB	2181	U	O4'-C1'-N1	12.48	118.19	108.20
26	BB	2324	U	O4'-C1'-N1	12.48	118.19	108.20
32	BH	82	PHE	CB-CG-CD1	-12.48	112.06	120.80
26	BB	1094	U	C6-N1-C2	-12.48	113.51	121.00
37	BM	105	ARG	NE-CZ-NH2	-12.48	114.06	120.30
1	AA	188	C	N1-C2-O2	12.47	126.38	118.90
1	AA	211	G	N3-C2-N2	-12.47	111.17	119.90
1	AA	307	C	C6-N1-C2	-12.47	115.31	120.30
26	BB	409	G	N9-C4-C5	12.46	110.39	105.40
26	BB	2647	U	N3-C4-O4	12.46	128.12	119.40
1	AA	1177	G	N3-C4-C5	-12.46	122.37	128.60
26	BB	616	A	C8-N9-C4	-12.46	100.82	105.80
26	BB	1231	U	C2-N3-C4	-12.46	119.53	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	B3	9	ARG	NE-CZ-NH2	12.46	126.53	120.30
26	BB	2428	G	N3-C4-C5	-12.46	122.37	128.60
1	AA	141	G	N3-C2-N2	-12.46	111.18	119.90
26	BB	2620	C	N3-C4-C5	-12.46	116.92	121.90
1	AA	1133	G	C8-N9-C4	-12.45	101.42	106.40
1	AA	1405	G	C8-N9-C4	-12.45	101.42	106.40
1	AA	360	G	C8-N9-C4	-12.45	101.42	106.40
26	BB	1953	A	C2-N3-C4	12.45	116.82	110.60
26	BB	2680	U	O4'-C1'-N1	12.45	118.16	108.20
1	AA	1517	G	C8-N9-C4	-12.44	101.42	106.40
26	BB	1645	G	O4'-C1'-N9	12.44	118.15	108.20
1	AA	223	A	N7-C8-N9	12.44	120.02	113.80
15	AO	53	ARG	NE-CZ-NH1	12.44	126.52	120.30
26	BB	1423	G	N3-C4-C5	-12.44	122.38	128.60
26	BB	2004	G	N3-C4-C5	-12.44	122.38	128.60
1	AA	729	A	C8-N9-C4	-12.43	100.83	105.80
12	AL	105	ARG	NE-CZ-NH1	-12.43	114.09	120.30
26	BB	1063	G	C5-C6-O6	12.43	136.06	128.60
26	BB	1215	G	O4'-C1'-N9	12.43	118.14	108.20
1	AA	840	C	N1-C2-O2	12.42	126.35	118.90
26	BB	1315	C	C4-C5-C6	12.42	123.61	117.40
26	BB	2248	C	N3-C4-C5	-12.42	116.93	121.90
26	BB	2321	U	N3-C2-O2	-12.42	113.51	122.20
26	BB	177	G	N7-C8-N9	12.41	119.31	113.10
26	BB	1722	A	N9-C4-C5	-12.41	100.84	105.80
4	AD	59	A	C8-N9-C4	-12.41	100.84	105.80
26	BB	1374	G	C4-C5-N7	-12.41	105.84	110.80
1	AA	1374	A	O4'-C1'-N9	12.40	118.12	108.20
26	BB	1140	C	N1-C2-O2	12.40	126.34	118.90
26	BB	1880	U	N1-C2-N3	12.40	122.34	114.90
1	AA	1323	G	N3-C4-N9	12.40	133.44	126.00
26	BB	2152	G	N3-C4-C5	-12.40	122.40	128.60
26	BB	277	G	C8-N9-C4	-12.40	101.44	106.40
26	BB	1000	A	N1-C6-N6	-12.40	111.16	118.60
1	AA	1514	G	N3-C2-N2	-12.39	111.22	119.90
26	BB	2734	A	O4'-C1'-N9	12.39	118.11	108.20
1	AA	371	A	C2-N3-C4	12.39	116.79	110.60
26	BB	773	U	C3'-C2'-C1'	12.39	111.41	101.50
43	BS	44	TYR	CB-CG-CD1	-12.39	113.57	121.00
26	BB	2567	G	O4'-C1'-N9	12.38	118.11	108.20
1	AA	38	G	N3-C4-C5	-12.38	122.41	128.60
1	AA	1155	A	C5-N7-C8	-12.38	97.71	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	750	C	C2-N3-C4	12.38	126.09	119.90
26	BB	1048	A	C4-C5-N7	-12.37	104.51	110.70
26	BB	674	G	C6-N1-C2	-12.37	117.68	125.10
1	AA	1303	C	C6-N1-C2	-12.36	115.35	120.30
26	BB	729	G	C5-N7-C8	12.36	110.48	104.30
26	BB	806	C	N3-C4-N4	12.36	126.65	118.00
26	BB	1158	C	C2-N3-C4	12.36	126.08	119.90
42	BR	100	ARG	NE-CZ-NH2	12.36	126.48	120.30
1	AA	1397	C	N1-C2-O2	12.36	126.32	118.90
26	BB	1891	G	N7-C8-N9	12.36	119.28	113.10
1	AA	1269	A	O4'-C1'-N9	12.35	118.08	108.20
26	BB	83	A	N1-C2-N3	-12.35	123.12	129.30
26	BB	679	C	C6-N1-C2	-12.35	115.36	120.30
4	AD	46	G	C5-C6-N1	12.35	117.67	111.50
3	AC	42	U	O4'-C1'-N1	12.34	118.07	108.20
25	BA	2	G	C4-C5-N7	-12.33	105.87	110.80
26	BB	287	G	N3-C4-N9	-12.33	118.60	126.00
26	BB	2719	G	C4-C5-N7	-12.33	105.87	110.80
1	AA	89	U	O4'-C1'-N1	12.32	118.06	108.20
26	BB	865	C	N3-C4-C5	-12.32	116.97	121.90
26	BB	2822	G	C8-N9-C4	-12.32	101.47	106.40
26	BB	1074	G	C5-C6-N1	12.31	117.66	111.50
26	BB	1766	G	O4'-C1'-N9	12.31	118.05	108.20
1	AA	800	G	C8-N9-C4	-12.31	101.48	106.40
1	AA	1245	C	C2-N3-C4	12.31	126.05	119.90
4	AD	22	A	C4-C5-C6	-12.31	110.84	117.00
26	BB	2723	C	O4'-C1'-N1	12.31	118.05	108.20
1	AA	728	A	N7-C8-N9	12.31	119.95	113.80
26	BB	1674	G	C8-N9-C4	-12.30	101.48	106.40
26	BB	2250	G	N3-C4-C5	-12.30	122.45	128.60
26	BB	1106	G	N7-C8-N9	12.30	119.25	113.10
26	BB	1413	A	C5-C6-N1	12.30	123.85	117.70
7	AG	46	ARG	NE-CZ-NH1	12.30	126.45	120.30
26	BB	563	A	N9-C4-C5	12.30	110.72	105.80
26	BB	850	U	N3-C2-O2	-12.30	113.59	122.20
26	BB	2307	G	C4-C5-N7	-12.30	105.88	110.80
26	BB	772	C	C6-N1-C2	-12.29	115.38	120.30
26	BB	4	U	N3-C4-C5	-12.29	107.22	114.60
1	AA	864	A	N1-C6-N6	-12.29	111.22	118.60
1	AA	1356	G	O4'-C1'-N9	12.29	118.03	108.20
26	BB	926	G	C4-C5-N7	-12.29	105.88	110.80
1	AA	110	C	C4-C5-C6	-12.29	111.26	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	355	U	O4'-C1'-N1	12.28	118.02	108.20
26	BB	416	U	N3-C2-O2	-12.28	113.61	122.20
1	AA	82	G	C8-N9-C4	-12.28	101.49	106.40
17	AQ	8	ARG	NE-CZ-NH2	-12.28	114.16	120.30
51	B0	52	ARG	NE-CZ-NH1	-12.28	114.16	120.30
1	AA	1502	A	N1-C2-N3	-12.27	123.17	129.30
26	BB	706	A	N1-C2-N3	-12.27	123.17	129.30
3	AC	31	U	N1-C2-O2	-12.27	114.21	122.80
26	BB	1762	A	C8-N9-C4	-12.27	100.89	105.80
26	BB	2624	G	C5-C6-O6	-12.26	121.24	128.60
1	AA	525	C	C4-C5-C6	12.26	123.53	117.40
26	BB	2547	A	N7-C8-N9	-12.26	107.67	113.80
26	BB	2130	U	O4'-C1'-N1	12.26	118.01	108.20
26	BB	2757	A	N1-C2-N3	-12.26	123.17	129.30
26	BB	1553	A	N7-C8-N9	-12.25	107.67	113.80
26	BB	2217	G	N3-C4-C5	-12.25	122.47	128.60
1	AA	503	C	C6-N1-C2	-12.25	115.40	120.30
26	BB	1556	C	C5-C6-N1	12.25	127.12	121.00
1	AA	1110	A	N9-C4-C5	12.25	110.70	105.80
26	BB	1083	U	C1'-O4'-C4'	12.25	119.70	109.90
26	BB	2131	U	O4'-C1'-N1	12.25	118.00	108.20
26	BB	950	G	C8-N9-C4	-12.24	101.50	106.40
1	AA	593	U	C2-N3-C4	-12.24	119.66	127.00
4	AD	62	C	N1-C2-O2	12.24	126.24	118.90
4	AD	75	C	C1'-O4'-C4'	-12.24	100.11	109.90
26	BB	2659	G	C4-C5-N7	-12.24	105.90	110.80
1	AA	141	G	C5-C6-N1	12.24	117.62	111.50
26	BB	2763	G	N1-C6-O6	-12.23	112.56	119.90
1	AA	1020	G	C4-C5-N7	-12.23	105.91	110.80
26	BB	1092	C	O4'-C1'-N1	12.23	117.99	108.20
1	AA	757	U	O4'-C1'-N1	12.23	117.98	108.20
1	AA	922	G	N3-C4-C5	-12.23	122.48	128.60
2	AB	21	A	C8-N9-C4	12.23	110.69	105.80
26	BB	987	C	C5-C4-N4	-12.23	111.64	120.20
1	AA	156	C	C4-C5-C6	-12.22	111.29	117.40
26	BB	1308	A	O4'-C1'-N9	12.22	117.98	108.20
1	AA	805	C	N3-C4-C5	-12.22	117.01	121.90
34	BJ	45	ARG	NE-CZ-NH2	-12.22	114.19	120.30
1	AA	1294	G	C2-N3-C4	12.22	118.01	111.90
1	AA	349	A	C4-C5-C6	-12.21	110.89	117.00
1	AA	588	G	C5-N7-C8	-12.21	98.19	104.30
26	BB	1554	U	O4'-C1'-N1	12.21	117.97	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	219	U	O4'-C1'-N1	12.21	117.97	108.20
2	AB	7	G	C8-N9-C4	-12.21	101.52	106.40
26	BB	544	C	C6-N1-C2	-12.21	115.42	120.30
26	BB	836	G	N3-C4-N9	-12.20	118.68	126.00
1	AA	814	A	N9-C4-C5	12.20	110.68	105.80
26	BB	2677	G	N3-C4-C5	-12.20	122.50	128.60
1	AA	1524	C	C6-N1-C2	-12.19	115.42	120.30
26	BB	533	G	C4-C5-N7	12.19	115.68	110.80
26	BB	573	U	C6-N1-C2	-12.19	113.68	121.00
26	BB	2218	G	N3-C4-C5	-12.20	122.50	128.60
26	BB	60	G	C2-N3-C4	12.19	118.00	111.90
26	BB	267	C	N1-C2-O2	12.19	126.22	118.90
26	BB	130	C	C2-N3-C4	12.19	125.99	119.90
1	AA	907	A	C5'-C4'-O4'	12.18	123.72	109.10
26	BB	1519	G	C4-C5-N7	-12.18	105.93	110.80
36	BL	120	ARG	NE-CZ-NH2	12.18	126.39	120.30
26	BB	247	G	C8-N9-C4	-12.18	101.53	106.40
26	BB	1170	C	N3-C4-C5	-12.18	117.03	121.90
26	BB	318	C	O4'-C1'-N1	12.18	117.94	108.20
26	BB	2495	G	N3-C4-N9	12.18	133.31	126.00
26	BB	1805	A	O4'-C1'-N9	12.17	117.94	108.20
26	BB	713	G	N7-C8-N9	12.17	119.19	113.10
26	BB	2521	C	C4-C5-C6	-12.17	111.31	117.40
27	BC	9	ARG	NE-CZ-NH2	12.17	126.39	120.30
26	BB	698	C	O4'-C1'-N1	12.17	117.93	108.20
1	AA	59	A	C8-N9-C4	-12.16	100.93	105.80
26	BB	610	C	N3-C4-C5	-12.16	117.03	121.90
26	BB	120	U	O4'-C1'-N1	12.16	117.93	108.20
26	BB	2749	A	C2-N3-C4	12.16	116.68	110.60
26	BB	23	G	N1-C2-N3	12.16	131.19	123.90
26	BB	1179	G	C8-N9-C4	-12.16	101.54	106.40
26	BB	921	C	N3-C2-O2	-12.15	113.39	121.90
26	BB	2248	C	N1-C2-O2	12.15	126.19	118.90
26	BB	2125	G	C8-N9-C4	-12.15	101.54	106.40
25	BA	68	C	N3-C4-C5	-12.15	117.04	121.90
26	BB	2	G	C6-C5-N7	-12.14	123.11	130.40
26	BB	2856	A	C4-C5-C6	-12.14	110.93	117.00
1	AA	1131	G	C2-N3-C4	12.14	117.97	111.90
1	AA	1294	G	C8-N9-C4	-12.13	101.55	106.40
26	BB	650	C	N1-C2-O2	12.13	126.18	118.90
26	BB	886	A	C8-N9-C4	-12.13	100.95	105.80
26	BB	2610	C	O4'-C1'-N1	12.13	117.91	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	309	A	O4'-C1'-N9	12.13	117.91	108.20
26	BB	1936	A	C8-N9-C4	-12.13	100.95	105.80
26	BB	717	C	O4'-C1'-N1	12.13	117.90	108.20
26	BB	1593	A	O4'-C1'-N9	12.13	117.90	108.20
1	AA	1473	G	N3-C4-C5	-12.12	122.54	128.60
26	BB	1601	G	C5-N7-C8	-12.13	98.24	104.30
26	BB	396	G	C5-N7-C8	12.12	110.36	104.30
26	BB	1973	G	N3-C4-C5	-12.12	122.54	128.60
1	AA	227	G	C2-N3-C4	12.12	117.96	111.90
1	AA	1501	C	N3-C4-C5	-12.12	117.05	121.90
1	AA	107	G	O4'-C1'-N9	12.12	117.90	108.20
26	BB	123	G	C2-N3-C4	12.12	117.96	111.90
26	BB	287	G	N9-C4-C5	12.12	110.25	105.40
1	AA	36	C	C4-C5-C6	12.11	123.46	117.40
1	AA	351	G	N9-C4-C5	12.11	110.25	105.40
1	AA	928	G	N3-C4-C5	-12.11	122.55	128.60
1	AA	1344	C	C6-N1-C2	-12.11	115.45	120.30
26	BB	109	C	C5'-C4'-O4'	12.11	123.64	109.10
26	BB	523	C	O4'-C1'-N1	12.11	117.89	108.20
26	BB	1414	C	O4'-C1'-N1	12.11	117.89	108.20
1	AA	1078	U	N3-C2-O2	-12.11	113.73	122.20
26	BB	2046	G	C5-N7-C8	-12.11	98.25	104.30
26	BB	549	G	N9-C4-C5	-12.10	100.56	105.40
26	BB	2814	A	O4'-C1'-N9	12.10	117.88	108.20
26	BB	557	C	N3-C4-C5	-12.10	117.06	121.90
26	BB	1756	G	N1-C6-O6	-12.09	112.65	119.90
26	BB	2485	G	N1-C6-O6	-12.09	112.64	119.90
26	BB	2554	U	O4'-C1'-N1	12.09	117.87	108.20
1	AA	589	U	N3-C4-C5	-12.09	107.35	114.60
1	AA	338	A	C5-N7-C8	-12.09	97.86	103.90
26	BB	1765	U	N1-C2-N3	12.09	122.15	114.90
26	BB	2714	G	C5-C6-O6	-12.08	121.35	128.60
26	BB	2728	U	O4'-C1'-N1	12.08	117.86	108.20
1	AA	498	A	C5-C6-N1	12.07	123.73	117.70
1	AA	1414	U	C5-C6-N1	12.07	128.74	122.70
1	AA	1082	A	C2-N3-C4	12.07	116.64	110.60
26	BB	903	C	C6-N1-C2	-12.07	115.47	120.30
26	BB	1493	C	O4'-C1'-N1	12.07	117.86	108.20
26	BB	339	U	O4'-C1'-N1	12.07	117.85	108.20
26	BB	796	C	O4'-C1'-N1	12.06	117.85	108.20
1	AA	569	C	O4'-C1'-N1	12.06	117.85	108.20
26	BB	760	G	C8-N9-C4	-12.06	101.58	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2594	C	C6-N1-C2	-12.06	115.47	120.30
26	BB	2428	G	N1-C2-N3	-12.06	116.66	123.90
1	AA	82	G	N7-C8-N9	12.06	119.13	113.10
1	AA	940	C	O4'-C1'-N1	12.05	117.84	108.20
26	BB	1180	U	O4'-C1'-N1	12.05	117.84	108.20
26	BB	1189	A	C5-N7-C8	12.05	109.93	103.90
26	BB	2217	G	N9-C4-C5	12.05	110.22	105.40
26	BB	2845	U	N3-C4-O4	12.05	127.84	119.40
26	BB	282	A	N9-C4-C5	12.05	110.62	105.80
26	BB	2870	C	C5-C6-N1	12.05	127.03	121.00
26	BB	1728	C	C6-N1-C2	-12.05	115.48	120.30
26	BB	2293	G	N3-C2-N2	-12.05	111.47	119.90
25	BA	112	G	C6-N1-C2	-12.05	117.87	125.10
1	AA	917	G	C8-N9-C4	-12.04	101.58	106.40
1	AA	1072	G	C5-C6-N1	12.04	117.52	111.50
26	BB	2113	U	O4'-C1'-N1	12.04	117.83	108.20
1	AA	1230	C	O4'-C1'-N1	12.04	117.83	108.20
30	BF	88	ARG	NE-CZ-NH1	-12.04	114.28	120.30
1	AA	350	G	C8-N9-C4	-12.04	101.58	106.40
1	AA	1343	G	C8-N9-C4	-12.04	101.58	106.40
26	BB	517	C	C6-N1-C2	-12.04	115.48	120.30
26	BB	2370	G	C2-N3-C4	12.04	117.92	111.90
26	BB	277	G	N3-C4-C5	-12.03	122.58	128.60
26	BB	780	G	N1-C6-O6	-12.04	112.68	119.90
1	AA	682	G	C4-C5-C6	12.03	126.02	118.80
26	BB	2495	G	N1-C6-O6	12.03	127.12	119.90
26	BB	587	C	C6-N1-C2	12.03	125.11	120.30
26	BB	776	G	C4-C5-N7	-12.03	105.99	110.80
6	AF	131	ARG	NE-CZ-NH1	12.02	126.31	120.30
25	BA	69	G	N9-C4-C5	12.02	110.21	105.40
26	BB	16	C	N3-C4-C5	-12.02	117.09	121.90
26	BB	341	C	N3-C4-N4	12.02	126.42	118.00
26	BB	271	G	C5-C6-O6	-12.02	121.39	128.60
26	BB	493	G	N3-C2-N2	-12.02	111.49	119.90
28	BD	47	ARG	NE-CZ-NH2	-12.02	114.29	120.30
1	AA	1290	G	C5-N7-C8	-12.01	98.29	104.30
1	AA	113	G	N3-C2-N2	-12.01	111.49	119.90
1	AA	833	G	C6-N1-C2	-12.01	117.89	125.10
1	AA	992	U	N3-C2-O2	-12.01	113.79	122.20
1	AA	85	U	N3-C2-O2	-12.01	113.79	122.20
1	AA	1227	A	N1-C2-N3	-12.01	123.30	129.30
26	BB	215	G	C5-C6-N1	12.01	117.50	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2565	A	N1-C2-N3	-12.01	123.30	129.30
26	BB	2373	G	C8-N9-C4	-12.00	101.60	106.40
1	AA	57	G	C8-N9-C4	-12.00	101.60	106.40
1	AA	1287	A	C8-N9-C4	-12.00	101.00	105.80
26	BB	558	U	C5-C6-N1	-12.00	116.70	122.70
26	BB	625	G	C4-C5-N7	-12.00	106.00	110.80
1	AA	68	G	C8-N9-C4	-12.00	101.60	106.40
26	BB	2034	U	N3-C2-O2	-12.00	113.80	122.20
55	B4	43	ARG	NE-CZ-NH2	12.00	126.30	120.30
1	AA	503	C	C5-C6-N1	11.99	127.00	121.00
26	BB	2046	G	N3-C2-N2	11.99	128.29	119.90
26	BB	2694	G	O4'-C1'-N9	11.99	117.79	108.20
27	BC	74	ARG	NE-CZ-NH1	11.99	126.30	120.30
1	AA	211	G	C8-N9-C4	-11.99	101.61	106.40
1	AA	1084	G	C8-N9-C4	-11.98	101.61	106.40
32	BH	163	TYR	CB-CG-CD2	-11.98	113.81	121.00
47	BW	81	ARG	NE-CZ-NH2	-11.98	114.31	120.30
1	AA	1501	C	N3-C2-O2	-11.98	113.52	121.90
1	AA	205	A	C8-N9-C4	-11.98	101.01	105.80
26	BB	312	G	N3-C4-C5	-11.98	122.61	128.60
1	AA	1030	U	N3-C4-C5	-11.97	107.42	114.60
1	AA	877	G	N9-C4-C5	11.97	110.19	105.40
25	BA	67	G	C5-N7-C8	-11.97	98.31	104.30
26	BB	915	C	C5-C6-N1	11.97	126.99	121.00
26	BB	2901	C	O4'-C1'-N1	11.97	117.77	108.20
26	BB	2314	A	C5-C6-N1	11.96	123.68	117.70
26	BB	2323	G	C5'-C4'-O4'	11.96	123.45	109.10
26	BB	1490	A	C5-C6-N1	-11.96	111.72	117.70
4	AD	13	C	C2-N3-C4	11.96	125.88	119.90
26	BB	2467	C	C5-C6-N1	11.96	126.98	121.00
1	AA	1435	G	O4'-C1'-N9	11.95	117.76	108.20
26	BB	418	C	N1-C2-O2	11.95	126.07	118.90
26	BB	1254	A	C5-N7-C8	11.95	109.88	103.90
26	BB	1535	A	N7-C8-N9	11.95	119.78	113.80
26	BB	1547	C	N3-C4-C5	-11.95	117.12	121.90
1	AA	1521	C	C2-N3-C4	11.95	125.87	119.90
26	BB	1080	A	C4-C5-C6	11.95	122.97	117.00
26	BB	1162	G	N7-C8-N9	11.95	119.07	113.10
26	BB	2655	G	N9-C4-C5	11.94	110.18	105.40
26	BB	2889	C	C2-N3-C4	11.94	125.87	119.90
1	AA	1193	G	C8-N9-C4	-11.94	101.62	106.40
26	BB	1878	G	C5-C6-O6	-11.94	121.44	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	BI	50	ARG	NE-CZ-NH2	-11.94	114.33	120.30
26	BB	374	A	C8-N9-C4	-11.94	101.03	105.80
26	BB	1683	U	O4'-C1'-N1	11.94	117.75	108.20
26	BB	2155	U	O4'-C1'-N1	11.94	117.75	108.20
1	AA	1482	G	N3-C4-C5	-11.93	122.63	128.60
1	AA	1272	G	C5-C6-N1	11.93	117.47	111.50
2	AB	26	A	N9-C4-C5	-11.93	101.03	105.80
26	BB	1233	C	N3-C4-C5	-11.93	117.13	121.90
26	BB	1250	G	C4-C5-N7	-11.93	106.03	110.80
28	BD	211	ARG	NE-CZ-NH2	-11.93	114.34	120.30
26	BB	2434	A	N9-C4-C5	11.93	110.57	105.80
26	BB	54	G	C4'-C3'-C2'	-11.93	90.67	102.60
26	BB	1055	G	C5-C6-N1	11.92	117.46	111.50
11	AK	127	TYR	CB-CG-CD1	11.92	128.15	121.00
40	BP	4	ARG	NE-CZ-NH2	-11.92	114.34	120.30
26	BB	2475	C	N3-C4-C5	-11.91	117.13	121.90
26	BB	430	A	C2-N3-C4	11.91	116.56	110.60
1	AA	1033	G	C5-C6-O6	-11.91	121.46	128.60
26	BB	623	C	N1-C2-O2	11.91	126.04	118.90
26	BB	770	G	C5-N7-C8	-11.90	98.35	104.30
26	BB	140	C	C2-N3-C4	11.90	125.85	119.90
26	BB	392	U	N3-C2-O2	-11.90	113.87	122.20
1	AA	865	A	C4-C5-C6	-11.89	111.05	117.00
1	AA	1136	C	C6-N1-C2	-11.89	115.54	120.30
1	AA	281	G	C4-C5-N7	-11.88	106.05	110.80
26	BB	1233	C	C6-N1-C2	-11.88	115.55	120.30
26	BB	1791	A	O4'-C4'-C3'	11.88	115.89	104.00
26	BB	1900	A	C5-C6-N1	11.89	123.64	117.70
1	AA	225	C	N3-C4-C5	-11.88	117.15	121.90
26	BB	301	G	C4-C5-N7	-11.88	106.05	110.80
26	BB	423	A	C5-C6-N1	11.88	123.64	117.70
26	BB	410	G	C6-N1-C2	-11.87	117.98	125.10
26	BB	1813	G	N3-C4-C5	-11.87	122.66	128.60
3	AC	27	A	O4'-C1'-N9	11.87	117.70	108.20
24	AX	65	ARG	NE-CZ-NH2	-11.87	114.37	120.30
26	BB	933	A	C4-C5-N7	-11.87	104.77	110.70
1	AA	540	G	C8-N9-C4	-11.87	101.65	106.40
1	AA	794	A	N1-C2-N3	11.87	135.23	129.30
26	BB	720	U	C5-C6-N1	-11.87	116.77	122.70
26	BB	2659	G	N9-C4-C5	11.87	110.15	105.40
1	AA	1031	C	N1-C2-O2	11.86	126.02	118.90
26	BB	26	G	N3-C2-N2	-11.86	111.60	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2331	G	C4-C5-N7	11.86	115.54	110.80
26	BB	179	C	O4'-C1'-N1	11.86	117.69	108.20
26	BB	1275	A	O4'-C1'-N9	11.86	117.69	108.20
1	AA	1284	C	O4'-C1'-N1	11.85	117.68	108.20
26	BB	436	C	C2-N3-C4	-11.85	113.97	119.90
26	BB	2026	U	C5-C6-N1	-11.85	116.77	122.70
26	BB	2721	A	O4'-C1'-N9	11.85	117.68	108.20
34	BJ	55	ARG	NE-CZ-NH2	-11.85	114.37	120.30
1	AA	865	A	N1-C6-N6	-11.85	111.49	118.60
1	AA	1306	A	N3-C4-N9	-11.85	117.92	127.40
3	AC	13	A	O4'-C1'-N9	11.85	117.68	108.20
25	BA	91	C	O4'-C1'-N1	11.85	117.68	108.20
26	BB	223	A	N1-C2-N3	11.85	135.22	129.30
1	AA	941	G	O4'-C1'-N9	11.85	117.68	108.20
26	BB	2347	C	O4'-C1'-N1	11.85	117.68	108.20
29	BE	33	ARG	NE-CZ-NH2	11.85	126.22	120.30
26	BB	1294	U	C5-C4-O4	11.84	133.01	125.90
1	AA	1098	C	O4'-C1'-N1	11.84	117.67	108.20
1	AA	1341	U	C5-C6-N1	-11.84	116.78	122.70
26	BB	1023	U	O4'-C1'-N1	11.84	117.67	108.20
1	AA	502	A	C8-N9-C4	-11.84	101.06	105.80
37	BM	71	ARG	NE-CZ-NH2	-11.84	114.38	120.30
1	AA	1186	G	C5-N7-C8	-11.84	98.38	104.30
26	BB	71	A	O4'-C1'-N9	11.83	117.67	108.20
26	BB	963	U	O4'-C1'-N1	11.83	117.67	108.20
26	BB	1289	C	C3'-C2'-C1'	11.83	110.97	101.50
26	BB	2282	G	N3-C4-C5	-11.83	122.68	128.60
4	AD	60	A	O4'-C1'-N9	11.83	117.66	108.20
26	BB	145	C	N3-C4-C5	11.83	126.63	121.90
26	BB	1612	C	N1-C2-O2	11.83	126.00	118.90
26	BB	1884	G	N9-C4-C5	11.83	110.13	105.40
26	BB	1423	G	C4-C5-N7	-11.82	106.07	110.80
26	BB	1355	G	O4'-C1'-N9	11.82	117.66	108.20
26	BB	2294	G	C8-N9-C4	-11.82	101.67	106.40
1	AA	1255	G	N3-C2-N2	-11.82	111.63	119.90
26	BB	1475	G	C4-C5-N7	-11.81	106.08	110.80
1	AA	409	U	N1-C2-N3	11.81	121.99	114.90
1	AA	965	U	C5-C6-N1	-11.81	116.80	122.70
26	BB	601	C	C5'-C4'-O4'	11.81	123.27	109.10
1	AA	895	G	O4'-C1'-N9	11.80	117.64	108.20
26	BB	274	C	N3-C4-C5	-11.80	117.18	121.90
54	B3	51	ARG	NE-CZ-NH2	11.80	126.20	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2337	G	N1-C2-N2	11.80	126.82	116.20
55	B4	43	ARG	NE-CZ-NH1	-11.80	114.40	120.30
26	BB	160	A	C5-N7-C8	11.79	109.80	103.90
26	BB	211	C	O4'-C1'-N1	11.79	117.64	108.20
26	BB	867	C	C5-C4-N4	-11.79	111.94	120.20
26	BB	1301	A	N1-C6-N6	-11.79	111.52	118.60
1	AA	845	A	O4'-C4'-C3'	11.79	115.79	104.00
1	AA	1119	C	O4'-C1'-N1	11.79	117.63	108.20
3	AC	17	U	O4'-C1'-N1	11.79	117.63	108.20
26	BB	2242	G	C8-N9-C4	-11.79	101.69	106.40
1	AA	781	A	O4'-C1'-N9	11.78	117.62	108.20
26	BB	2004	G	N3-C4-N9	11.78	133.07	126.00
26	BB	2118	U	O4'-C1'-N1	11.78	117.62	108.20
26	BB	2870	C	N3-C4-C5	11.78	126.61	121.90
1	AA	1148	U	O4'-C1'-N1	11.77	117.62	108.20
26	BB	999	U	C5-C6-N1	-11.77	116.81	122.70
25	BA	62	C	N3-C2-O2	-11.77	113.66	121.90
26	BB	1197	G	C2-N3-C4	11.77	117.78	111.90
1	AA	1429	A	N9-C4-C5	11.77	110.51	105.80
26	BB	709	U	N3-C4-O4	11.77	127.64	119.40
26	BB	1899	A	C8-N9-C4	-11.77	101.09	105.80
26	BB	2037	A	C5-C6-N1	11.77	123.58	117.70
26	BB	2331	G	N1-C6-O6	11.77	126.96	119.90
3	AC	42	U	N3-C4-O4	11.76	127.64	119.40
3	AC	58	C	C6-N1-C2	-11.76	115.59	120.30
26	BB	938	G	N3-C4-C5	-11.76	122.72	128.60
26	BB	2386	A	O4'-C1'-N9	11.76	117.61	108.20
26	BB	1397	U	N3-C4-C5	-11.76	107.54	114.60
26	BB	2490	G	N9-C4-C5	11.76	110.11	105.40
26	BB	2591	C	C5-C4-N4	-11.76	111.97	120.20
1	AA	1502	A	O4'-C1'-N9	11.76	117.61	108.20
1	AA	449	G	C8-N9-C4	-11.76	101.70	106.40
26	BB	442	G	C5-C6-O6	-11.76	121.54	128.60
26	BB	1345	C	C5-C4-N4	-11.76	111.97	120.20
1	AA	72	A	C2-N3-C4	11.76	116.48	110.60
1	AA	602	A	N1-C2-N3	-11.76	123.42	129.30
8	AH	127	TYR	CB-CG-CD2	-11.76	113.95	121.00
4	AD	36	A	N9-C4-C5	-11.75	101.10	105.80
26	BB	2590	A	N9-C4-C5	11.75	110.50	105.80
26	BB	1122	G	C4-C5-N7	-11.75	106.10	110.80
26	BB	1724	G	C8-N9-C4	-11.75	101.70	106.40
26	BB	661	A	O4'-C1'-N9	11.75	117.60	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	231	U	C3'-C2'-C1'	11.74	110.89	101.50
26	BB	1120	G	C6-C5-N7	-11.74	123.36	130.40
1	AA	257	G	N3-C2-N2	-11.74	111.68	119.90
26	BB	214	G	C8-N9-C4	-11.74	101.70	106.40
1	AA	350	G	C4-C5-N7	-11.73	106.11	110.80
2	AB	59	G	C5-C6-O6	-11.73	121.56	128.60
26	BB	532	A	C8-N9-C4	-11.73	101.11	105.80
1	AA	1024	G	C5-C6-N1	11.73	117.36	111.50
26	BB	2466	C	C6-N1-C2	-11.73	115.61	120.30
26	BB	2777	G	N1-C6-O6	11.73	126.94	119.90
1	AA	974	A	O4'-C1'-N9	11.73	117.58	108.20
1	AA	1030	U	C5-C4-O4	11.73	132.94	125.90
26	BB	2136	G	C4'-C3'-C2'	-11.73	90.87	102.60
1	AA	104	G	C8-N9-C4	-11.72	101.71	106.40
1	AA	840	C	C5'-C4'-O4'	11.72	123.17	109.10
25	BA	16	G	C5-C6-N1	11.72	117.36	111.50
26	BB	1386	C	O4'-C1'-N1	11.72	117.58	108.20
26	BB	863	A	C2-N3-C4	11.72	116.46	110.60
1	AA	1342	C	O4'-C1'-N1	11.72	117.58	108.20
26	BB	2314	A	C8-N9-C4	11.72	110.49	105.80
25	BA	51	G	N3-C2-N2	-11.71	111.70	119.90
1	AA	159	G	N9-C4-C5	11.71	110.08	105.40
1	AA	1107	C	C6-N1-C2	11.71	124.98	120.30
26	BB	200	U	C5-C6-N1	-11.71	116.84	122.70
26	BB	1016	G	C4-C5-N7	-11.71	106.11	110.80
4	AD	22	A	C1'-O4'-C4'	-11.71	100.53	109.90
26	BB	979	A	C5-N7-C8	11.71	109.75	103.90
26	BB	982	C	C6-N1-C2	-11.71	115.62	120.30
26	BB	2280	G	N1-C6-O6	-11.71	112.87	119.90
1	AA	1176	A	C5-C6-N1	11.71	123.55	117.70
1	AA	657	U	O4'-C1'-N1	11.70	117.56	108.20
26	BB	661	A	N1-C6-N6	11.70	125.62	118.60
26	BB	613	A	C4-C5-C6	-11.70	111.15	117.00
1	AA	646	G	N3-C4-C5	-11.70	122.75	128.60
26	BB	204	A	O4'-C1'-N9	11.70	117.56	108.20
26	BB	1064	C	N3-C4-C5	-11.69	117.22	121.90
26	BB	1214	A	N1-C2-N3	-11.70	123.45	129.30
26	BB	836	G	N9-C4-C5	11.69	110.08	105.40
26	BB	1482	G	C4-C5-N7	11.69	115.48	110.80
26	BB	2402	U	C2-N3-C4	-11.69	119.98	127.00
40	BP	90	ARG	NE-CZ-NH1	11.69	126.14	120.30
26	BB	54	G	N9-C4-C5	11.69	110.08	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2745	C	O4'-C1'-N1	11.68	117.55	108.20
1	AA	764	C	P-O3'-C3'	11.68	133.72	119.70
26	BB	903	C	N3-C4-C5	-11.68	117.23	121.90
26	BB	2769	U	C5-C6-N1	-11.68	116.86	122.70
26	BB	2808	G	C4-C5-N7	11.68	115.47	110.80
26	BB	1797	G	N7-C8-N9	11.68	118.94	113.10
26	BB	2540	C	N1-C2-O2	11.68	125.91	118.90
26	BB	2410	G	C5-N7-C8	11.67	110.14	104.30
26	BB	685	A	C5-C6-N1	11.67	123.54	117.70
1	AA	1028	C	C1'-O4'-C4'	-11.67	100.56	109.90
26	BB	612	G	C4-C5-N7	-11.67	106.13	110.80
26	BB	933	A	C5-N7-C8	11.67	109.73	103.90
1	AA	1426	G	C6-C5-N7	-11.67	123.40	130.40
26	BB	1512	C	O4'-C1'-N1	11.67	117.53	108.20
26	BB	1230	A	C5-C6-N1	11.66	123.53	117.70
26	BB	621	A	N1-C6-N6	-11.66	111.60	118.60
26	BB	2553	G	N3-C4-C5	-11.66	122.77	128.60
1	AA	329	A	C5-N7-C8	11.66	109.73	103.90
26	BB	2466	C	C5-C4-N4	-11.66	112.04	120.20
1	AA	441	A	N1-C6-N6	-11.65	111.61	118.60
1	AA	1103	C	N1-C2-O2	11.65	125.89	118.90
1	AA	1386	G	C5-N7-C8	-11.65	98.47	104.30
26	BB	971	G	C6-N1-C2	-11.65	118.11	125.10
26	BB	1909	C	N1-C2-O2	11.65	125.89	118.90
26	BB	2087	G	N1-C2-N3	-11.65	116.91	123.90
1	AA	556	C	O4'-C1'-N1	11.65	117.52	108.20
1	AA	144	G	N7-C8-N9	11.65	118.92	113.10
26	BB	48	G	N3-C4-C5	-11.65	122.78	128.60
26	BB	951	C	N1-C2-O2	11.65	125.89	118.90
26	BB	1022	G	C2-N3-C4	11.65	117.72	111.90
26	BB	1526	C	C6-N1-C2	11.65	124.96	120.30
1	AA	903	G	C2-N3-C4	11.64	117.72	111.90
26	BB	388	G	N7-C8-N9	11.64	118.92	113.10
26	BB	1601	G	N7-C8-N9	11.64	118.92	113.10
26	BB	2454	G	C4-C5-N7	-11.64	106.14	110.80
26	BB	2446	G	C5-C6-N1	11.64	117.32	111.50
26	BB	2859	G	N3-C2-N2	11.63	128.04	119.90
26	BB	9	G	N1-C6-O6	11.63	126.88	119.90
26	BB	105	C	O4'-C1'-N1	11.63	117.50	108.20
26	BB	759	G	C6-N1-C2	-11.63	118.12	125.10
26	BB	941	A	N9-C4-C5	11.63	110.45	105.80
1	AA	418	C	C4-C5-C6	11.63	123.21	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1286	U	O4'-C1'-N1	11.63	117.50	108.20
26	BB	1817	G	C8-N9-C4	-11.63	101.75	106.40
26	BB	2325	G	C4-C5-N7	-11.63	106.15	110.80
1	AA	1416	G	N9-C4-C5	11.63	110.05	105.40
26	BB	1205	A	N1-C2-N3	-11.62	123.49	129.30
1	AA	626	G	N7-C8-N9	11.62	118.91	113.10
1	AA	1206	G	N1-C6-O6	-11.62	112.93	119.90
26	BB	2545	G	C2-N3-C4	11.62	117.71	111.90
1	AA	1034	G	O4'-C1'-N9	11.62	117.50	108.20
26	BB	1452	G	C1'-O4'-C4'	-11.62	100.61	109.90
26	BB	340	A	O4'-C1'-N9	11.61	117.49	108.20
26	BB	796	C	N3-C4-C5	-11.61	117.26	121.90
26	BB	1580	A	N1-C6-N6	-11.61	111.63	118.60
1	AA	198	G	C4-C5-N7	11.61	115.44	110.80
1	AA	204	G	C8-N9-C4	-11.61	101.76	106.40
1	AA	643	C	C4-C5-C6	-11.61	111.60	117.40
26	BB	277	G	N9-C4-C5	11.61	110.04	105.40
26	BB	1888	G	O4'-C1'-N9	11.61	117.49	108.20
1	AA	648	A	N1-C6-N6	11.61	125.56	118.60
26	BB	19	A	N1-C6-N6	-11.61	111.64	118.60
26	BB	2703	C	N3-C4-C5	-11.61	117.26	121.90
4	AD	51	U	O4'-C1'-N1	11.60	117.48	108.20
1	AA	1015	G	C8-N9-C4	-11.60	101.76	106.40
2	AB	51	G	C2-N3-C4	11.60	117.70	111.90
26	BB	535	G	N9-C4-C5	11.60	110.04	105.40
26	BB	1945	G	N7-C8-N9	-11.60	107.30	113.10
26	BB	2223	G	C8-N9-C4	-11.60	101.76	106.40
1	AA	287	U	O4'-C1'-N1	11.60	117.48	108.20
26	BB	1382	G	C2-N3-C4	11.60	117.70	111.90
1	AA	581	G	N3-C4-C5	-11.60	122.80	128.60
1	AA	1355	G	N3-C4-C5	-11.60	122.80	128.60
1	AA	593	U	C5-C4-O4	-11.59	118.94	125.90
1	AA	206	C	N3-C4-N4	11.59	126.11	118.00
26	BB	262	A	O4'-C1'-N9	11.59	117.47	108.20
1	AA	42	G	C8-N9-C4	-11.59	101.77	106.40
14	AN	8	ARG	NE-CZ-NH1	11.59	126.09	120.30
26	BB	281	C	C5-C6-N1	11.59	126.79	121.00
26	BB	55	G	C5-N7-C8	-11.58	98.51	104.30
26	BB	2121	G	N3-C4-C5	-11.58	122.81	128.60
1	AA	54	C	O4'-C1'-N1	11.58	117.47	108.20
1	AA	1054	C	O4'-C1'-N1	11.58	117.47	108.20
2	AB	9	A	N1-C6-N6	-11.58	111.65	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2158	A	C8-N9-C4	-11.58	101.17	105.80
26	BB	2422	C	C2-N3-C4	11.58	125.69	119.90
25	BA	113	C	C2-N3-C4	11.58	125.69	119.90
26	BB	250	G	C8-N9-C4	-11.58	101.77	106.40
26	BB	335	C	C2-N3-C4	11.58	125.69	119.90
26	BB	1354	A	N9-C4-C5	11.58	110.43	105.80
26	BB	476	G	C8-N9-C4	-11.57	101.77	106.40
3	AC	31	U	N1-C2-N3	11.57	121.84	114.90
25	BA	112	G	N9-C4-C5	11.57	110.03	105.40
26	BB	1120	G	O4'-C1'-N9	11.57	117.46	108.20
1	AA	536	C	C2-N3-C4	-11.57	114.12	119.90
1	AA	1131	G	N3-C4-C5	-11.57	122.82	128.60
1	AA	1536	C	O4'-C1'-N1	11.57	117.45	108.20
1	AA	345	C	C5-C4-N4	-11.56	112.11	120.20
26	BB	1199	U	C5-C4-O4	-11.56	118.96	125.90
26	BB	2613	U	O4'-C1'-N1	11.56	117.45	108.20
15	AO	35	ARG	NE-CZ-NH2	-11.56	114.52	120.30
26	BB	23	G	C6-C5-N7	-11.56	123.47	130.40
26	BB	487	C	O4'-C1'-N1	11.56	117.45	108.20
26	BB	831	G	O4'-C1'-N9	11.56	117.44	108.20
26	BB	155	A	C8-N9-C4	-11.55	101.18	105.80
26	BB	589	U	C4-C5-C6	11.55	126.63	119.70
3	AC	22	G	N7-C8-N9	-11.55	107.33	113.10
26	BB	2074	U	C4-C5-C6	11.55	126.63	119.70
26	BB	2173	A	N9-C4-C5	11.55	110.42	105.80
26	BB	1224	U	N1-C2-N3	11.54	121.83	114.90
26	BB	912	C	C2-N3-C4	11.54	125.67	119.90
1	AA	242	G	O4'-C1'-N9	11.54	117.43	108.20
26	BB	718	A	O4'-C1'-N9	11.54	117.43	108.20
4	AD	20	G	C3'-C2'-C1'	-11.53	92.27	101.50
4	AD	39	A	O4'-C1'-N9	11.53	117.43	108.20
26	BB	1940	U	C1'-O4'-C4'	-11.54	100.67	109.90
1	AA	1447	A	N1-C2-N3	-11.53	123.53	129.30
26	BB	201	C	N3-C4-C5	-11.53	117.29	121.90
26	BB	1436	G	N9-C4-C5	-11.53	100.79	105.40
26	BB	974	G	N3-C4-N9	11.53	132.92	126.00
26	BB	2813	A	C4-C5-N7	11.53	116.46	110.70
1	AA	669	G	C2-N3-C4	11.53	117.66	111.90
26	BB	388	G	C8-N9-C4	-11.53	101.79	106.40
23	AW	9	ARG	NE-CZ-NH1	11.53	126.06	120.30
1	AA	340	U	N3-C4-O4	11.52	127.47	119.40
45	BU	11	ARG	NE-CZ-NH2	-11.52	114.54	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	838	C	N3-C4-C5	-11.52	117.29	121.90
26	BB	1006	C	C5-C4-N4	11.52	128.26	120.20
26	BB	303	G	N7-C8-N9	11.52	118.86	113.10
1	AA	239	U	O4'-C1'-N1	11.52	117.41	108.20
26	BB	951	C	O4'-C1'-N1	11.52	117.41	108.20
26	BB	1721	G	N3-C4-C5	-11.52	122.84	128.60
26	BB	10	A	C5-N7-C8	11.51	109.66	103.90
26	BB	617	G	C6-N1-C2	-11.51	118.19	125.10
26	BB	835	C	O4'-C1'-N1	11.51	117.41	108.20
26	BB	2248	C	N3-C4-N4	11.51	126.06	118.00
26	BB	271	G	N3-C4-C5	-11.51	122.84	128.60
1	AA	1195	C	N3-C4-C5	-11.51	117.30	121.90
26	BB	460	A	N1-C2-N3	-11.51	123.55	129.30
3	AC	47	C	C4-C5-C6	11.51	123.15	117.40
26	BB	2060	A	C8-N9-C4	-11.51	101.20	105.80
26	BB	2203	U	O4'-C1'-N1	11.51	117.41	108.20
1	AA	603	U	C5-C6-N1	-11.50	116.95	122.70
26	BB	1197	G	C4-C5-C6	11.50	125.70	118.80
26	BB	205	G	N7-C8-N9	11.50	118.85	113.10
26	BB	998	C	C5-C6-N1	-11.50	115.25	121.00
1	AA	544	G	N9-C4-C5	11.50	110.00	105.40
1	AA	1233	G	C8-N9-C4	-11.49	101.80	106.40
26	BB	550	C	N3-C4-N4	11.49	126.05	118.00
26	BB	1	G	N3-C4-C5	-11.49	122.85	128.60
26	BB	209	C	N3-C4-C5	-11.49	117.30	121.90
1	AA	370	C	N3-C4-N4	11.49	126.04	118.00
15	AO	37	TYR	CB-CG-CD1	-11.49	114.11	121.00
26	BB	1888	G	N1-C6-O6	-11.49	113.01	119.90
26	BB	1063	G	C8-N9-C4	-11.48	101.81	106.40
1	AA	747	A	N9-C4-C5	11.48	110.39	105.80
26	BB	2547	A	N1-C2-N3	-11.48	123.56	129.30
1	AA	14	U	N3-C2-O2	-11.48	114.16	122.20
1	AA	538	G	O4'-C1'-N9	11.48	117.38	108.20
18	AR	63	ARG	NE-CZ-NH1	11.48	126.04	120.30
26	BB	954	G	N7-C8-N9	11.47	118.84	113.10
1	AA	792	A	C4-C5-N7	-11.47	104.97	110.70
1	AA	831	A	O4'-C1'-N9	11.47	117.38	108.20
1	AA	1290	G	C4-C5-N7	11.47	115.39	110.80
26	BB	1870	C	C3'-C2'-C1'	11.47	110.67	101.50
1	AA	700	G	C5-C6-N1	11.47	117.23	111.50
1	AA	557	G	C1'-O4'-C4'	-11.46	100.73	109.90
1	AA	417	G	C8-N9-C4	11.46	110.98	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1321	A	O4'-C1'-N9	11.46	117.37	108.20
1	AA	1090	U	C5-C6-N1	-11.46	116.97	122.70
25	BA	16	G	C5-C6-O6	-11.46	121.72	128.60
1	AA	88	U	O4'-C1'-N1	11.46	117.36	108.20
1	AA	1196	A	N1-C6-N6	-11.46	111.73	118.60
1	AA	1298	U	C4-C5-C6	11.46	126.57	119.70
26	BB	2398	U	N3-C4-C5	-11.46	107.73	114.60
26	BB	1430	G	C8-N9-C4	-11.45	101.82	106.40
1	AA	1362	A	C5-C6-N1	11.45	123.42	117.70
26	BB	2681	C	N3-C4-C5	-11.45	117.32	121.90
1	AA	870	U	C4-C5-C6	11.45	126.57	119.70
26	BB	849	A	C4'-C3'-C2'	-11.45	91.15	102.60
1	AA	597	G	C5-C6-O6	-11.44	121.73	128.60
56	B5	5	PHE	CB-CG-CD2	-11.44	112.79	120.80
26	BB	975	A	C5-N7-C8	-11.44	98.18	103.90
26	BB	2549	G	C5-C6-N1	11.44	117.22	111.50
1	AA	1533	C	C2-N3-C4	11.44	125.62	119.90
1	AA	353	A	C2-N3-C4	11.44	116.32	110.60
2	AB	4	G	O4'-C1'-N9	11.44	117.35	108.20
26	BB	494	G	N7-C8-N9	11.44	118.82	113.10
26	BB	1219	U	C5-C4-O4	-11.44	119.04	125.90
26	BB	2237	G	N9-C4-C5	11.44	109.97	105.40
1	AA	860	A	O4'-C1'-N9	11.44	117.35	108.20
1	AA	251	G	C8-N9-C4	-11.43	101.83	106.40
1	AA	321	A	C4-C5-N7	-11.43	104.99	110.70
1	AA	422	C	C4-C5-C6	-11.43	111.69	117.40
1	AA	818	G	N9-C4-C5	-11.42	100.83	105.40
26	BB	1247	A	O4'-C1'-N9	11.42	117.34	108.20
1	AA	422	C	C5-C6-N1	11.42	126.71	121.00
1	AA	59	A	C4-C5-N7	-11.41	105.00	110.70
26	BB	274	C	C6-N1-C2	-11.41	115.73	120.30
26	BB	1925	C	C5'-C4'-O4'	11.41	122.79	109.10
1	AA	808	C	O4'-C1'-N1	11.41	117.33	108.20
1	AA	86	G	C4-C5-C6	11.41	125.64	118.80
26	BB	578	G	O4'-C1'-N9	11.41	117.33	108.20
26	BB	1158	C	C6-N1-C2	-11.41	115.74	120.30
1	AA	443	C	O4'-C1'-N1	11.40	117.32	108.20
26	BB	1153	C	C1'-O4'-C4'	-11.40	100.78	109.90
1	AA	1109	C	O4'-C1'-N1	11.40	117.32	108.20
5	AE	221	ARG	NE-CZ-NH1	11.40	126.00	120.30
1	AA	532	A	C4-C5-C6	-11.39	111.30	117.00
1	AA	725	G	N1-C6-O6	11.39	126.74	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1393	U	C5-C4-O4	-11.39	119.06	125.90
26	BB	1500	G	C6-C5-N7	-11.39	123.56	130.40
1	AA	1276	G	C6-C5-N7	11.39	137.24	130.40
26	BB	1696	G	N9-C4-C5	11.39	109.96	105.40
26	BB	2427	C	N1-C2-O2	11.39	125.74	118.90
26	BB	634	C	C2-N3-C4	11.39	125.60	119.90
1	AA	143	A	N7-C8-N9	11.39	119.49	113.80
1	AA	756	C	C2-N3-C4	11.38	125.59	119.90
1	AA	559	A	O4'-C1'-N9	11.38	117.31	108.20
1	AA	257	G	C8-N9-C4	-11.38	101.85	106.40
26	BB	2054	A	C5-N7-C8	-11.38	98.21	103.90
26	BB	997	G	C8-N9-C4	-11.38	101.85	106.40
26	BB	2365	G	C5-N7-C8	11.38	109.99	104.30
15	AO	93	ARG	NE-CZ-NH1	11.37	125.99	120.30
26	BB	515	A	O4'-C1'-N9	11.37	117.30	108.20
26	BB	912	C	O4'-C1'-N1	11.37	117.30	108.20
26	BB	2182	U	O4'-C1'-N1	11.37	117.30	108.20
1	AA	930	C	O4'-C1'-N1	11.37	117.30	108.20
26	BB	2338	C	N1-C2-O2	11.37	125.72	118.90
1	AA	1263	C	N3-C2-O2	-11.37	113.94	121.90
26	BB	712	G	N3-C4-C5	-11.37	122.92	128.60
26	BB	2434	A	N7-C8-N9	11.36	119.48	113.80
1	AA	903	G	C8-N9-C4	-11.36	101.86	106.40
1	AA	22	G	N9-C4-C5	11.36	109.94	105.40
4	AD	34	U	N3-C2-O2	-11.36	114.25	122.20
26	BB	496	G	N9-C4-C5	11.36	109.94	105.40
26	BB	1364	G	C5-C6-N1	11.36	117.18	111.50
1	AA	1453	G	C5-C6-N1	11.36	117.18	111.50
26	BB	1145	C	C4-C5-C6	-11.36	111.72	117.40
26	BB	1603	A	C5-C6-N1	11.36	123.38	117.70
26	BB	1858	A	C2-N3-C4	11.36	116.28	110.60
1	AA	389	A	C5'-C4'-O4'	11.35	122.72	109.10
26	BB	1436	G	O4'-C1'-N9	11.35	117.28	108.20
1	AA	1165	U	O4'-C1'-N1	11.35	117.28	108.20
1	AA	384	G	C8-N9-C4	-11.35	101.86	106.40
26	BB	1144	A	N1-C6-N6	-11.35	111.79	118.60
26	BB	2547	A	C8-N9-C4	11.35	110.34	105.80
1	AA	599	C	O4'-C1'-N1	11.34	117.27	108.20
1	AA	796	C	N1-C2-O2	11.34	125.71	118.90
4	AD	39	A	C2-N3-C4	11.34	116.27	110.60
26	BB	1283	G	N3-C4-C5	-11.34	122.93	128.60
26	BB	2400	G	C4-C5-N7	11.34	115.34	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1128	G	C8-N9-C4	-11.34	101.86	106.40
1	AA	1088	G	N9-C4-C5	11.34	109.94	105.40
26	BB	2814	A	N1-C2-N3	-11.34	123.63	129.30
58	B7	19	ARG	NE-CZ-NH1	11.34	125.97	120.30
1	AA	577	G	N3-C2-N2	-11.34	111.96	119.90
1	AA	771	G	N3-C4-C5	-11.34	122.93	128.60
26	BB	1535	A	C8-N9-C4	-11.34	101.27	105.80
10	AJ	52	ARG	NE-CZ-NH2	-11.34	114.63	120.30
26	BB	751	A	N1-C2-N3	-11.33	123.63	129.30
26	BB	1971	U	O4'-C1'-N1	11.33	117.27	108.20
26	BB	2534	A	O4'-C1'-N9	11.33	117.27	108.20
26	BB	1443	U	C5-C6-N1	11.33	128.37	122.70
26	BB	2755	C	C5-C4-N4	11.33	128.13	120.20
26	BB	1385	A	O4'-C1'-N9	11.33	117.26	108.20
26	BB	2208	C	N3-C2-O2	-11.33	113.97	121.90
1	AA	109	A	N1-C2-N3	11.33	134.96	129.30
1	AA	146	G	O4'-C1'-N9	11.33	117.26	108.20
26	BB	1179	G	N7-C8-N9	11.33	118.76	113.10
26	BB	1311	G	N9-C4-C5	11.33	109.93	105.40
1	AA	372	C	N3-C2-O2	-11.32	113.97	121.90
26	BB	2071	A	C6-C5-N7	11.32	140.22	132.30
1	AA	1433	A	N1-C6-N6	-11.32	111.81	118.60
25	BA	44	G	C5-N7-C8	11.32	109.96	104.30
26	BB	590	A	C6-C5-N7	11.32	140.22	132.30
26	BB	612	G	C5-N7-C8	11.32	109.96	104.30
26	BB	763	G	C4-C5-N7	-11.32	106.27	110.80
26	BB	2339	C	O4'-C1'-N1	11.32	117.25	108.20
26	BB	1292	G	O4'-C1'-N9	11.31	117.25	108.20
26	BB	1361	G	N3-C2-N2	-11.31	111.99	119.90
1	AA	560	A	C2-N3-C4	-11.30	104.95	110.60
26	BB	2048	G	N3-C4-C5	-11.30	122.95	128.60
26	BB	1653	G	C6-N1-C2	-11.30	118.32	125.10
1	AA	31	G	O4'-C1'-N9	11.29	117.23	108.20
1	AA	1129	C	C5-C4-N4	-11.29	112.30	120.20
26	BB	2509	G	N7-C8-N9	-11.29	107.45	113.10
26	BB	1345	C	N3-C4-N4	11.29	125.90	118.00
1	AA	237	G	C8-N9-C4	-11.29	101.89	106.40
26	BB	1819	A	C8-N9-C4	-11.29	101.29	105.80
26	BB	2428	G	C4-C5-C6	11.29	125.57	118.80
1	AA	760	G	C4-C5-N7	-11.28	106.29	110.80
4	AD	77	A	O4'-C1'-N9	11.28	117.22	108.20
26	BB	2089	C	O4'-C1'-N1	11.28	117.23	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	381	C	C5-C6-N1	11.28	126.64	121.00
1	AA	1002	G	C5-C6-O6	-11.28	121.83	128.60
26	BB	1866	A	N1-C6-N6	11.28	125.37	118.60
26	BB	2367	G	C5'-C4'-O4'	11.28	122.63	109.10
1	AA	51	A	N9-C4-C5	11.27	110.31	105.80
1	AA	381	C	C2-N3-C4	11.27	125.54	119.90
1	AA	572	A	N7-C8-N9	11.27	119.44	113.80
26	BB	2663	G	C2-N3-C4	11.27	117.53	111.90
1	AA	142	G	C6-N1-C2	-11.27	118.34	125.10
1	AA	313	A	C8-N9-C4	-11.27	101.29	105.80
1	AA	1499	A	N7-C8-N9	11.27	119.43	113.80
26	BB	1233	C	C5-C6-N1	11.27	126.63	121.00
1	AA	213	G	C8-N9-C4	-11.26	101.89	106.40
26	BB	2597	G	C6-N1-C2	-11.26	118.34	125.10
1	AA	1473	G	C2-N3-C4	11.26	117.53	111.90
26	BB	743	A	N1-C2-N3	11.26	134.93	129.30
26	BB	73	A	N9-C4-C5	-11.25	101.30	105.80
26	BB	1049	C	C4-C5-C6	-11.25	111.77	117.40
1	AA	714	G	C8-N9-C4	-11.25	101.90	106.40
26	BB	988	A	C8-N9-C4	-11.25	101.30	105.80
37	BM	17	ARG	NE-CZ-NH2	-11.25	114.68	120.30
26	BB	1216	G	C5-C6-O6	-11.24	121.85	128.60
26	BB	2795	C	N3-C4-C5	-11.24	117.40	121.90
1	AA	396	C	O4'-C1'-N1	11.24	117.19	108.20
26	BB	1297	C	N1-C2-O2	11.24	125.64	118.90
1	AA	550	G	N9-C4-C5	11.24	109.89	105.40
26	BB	1445	G	N9-C4-C5	11.24	109.89	105.40
1	AA	276	G	N9-C4-C5	11.23	109.89	105.40
1	AA	1157	A	C5-N7-C8	-11.23	98.28	103.90
26	BB	2726	A	C8-N9-C4	-11.23	101.31	105.80
1	AA	143	A	C2-N3-C4	11.23	116.22	110.60
25	BA	25	U	N1-C2-N3	11.23	121.64	114.90
26	BB	1620	G	C8-N9-C4	-11.23	101.91	106.40
26	BB	1113	U	O4'-C1'-N1	11.23	117.18	108.20
1	AA	1367	C	C6-N1-C2	-11.23	115.81	120.30
1	AA	1482	G	C4-C5-N7	-11.23	106.31	110.80
26	BB	685	A	N1-C6-N6	-11.23	111.86	118.60
26	BB	1115	G	C5-N7-C8	11.23	109.91	104.30
26	BB	1578	U	N3-C4-C5	11.23	121.34	114.60
26	BB	447	A	N9-C4-C5	11.22	110.29	105.80
1	AA	1343	G	N7-C8-N9	11.22	118.71	113.10
26	BB	361	G	C5-C6-O6	-11.22	121.87	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1064	G	N3-C4-C5	-11.22	122.99	128.60
1	AA	544	G	C4-C5-N7	-11.22	106.31	110.80
1	AA	1031	C	N3-C2-O2	-11.22	114.05	121.90
1	AA	1370	G	C5-C6-O6	-11.22	121.87	128.60
26	BB	852	U	C5-C6-N1	-11.21	117.09	122.70
26	BB	1293	C	C4-C5-C6	-11.21	111.79	117.40
26	BB	2227	A	O4'-C1'-C2'	11.21	117.69	107.60
26	BB	2624	G	C5-C6-N1	11.22	117.11	111.50
26	BB	1091	G	C8-N9-C4	-11.21	101.92	106.40
26	BB	553	G	O4'-C1'-N9	11.21	117.17	108.20
4	AD	63	C	O4'-C1'-N1	11.21	117.17	108.20
26	BB	234	U	N3-C4-O4	-11.21	111.56	119.40
26	BB	765	C	C6-N1-C2	-11.21	115.82	120.30
26	BB	1543	G	N7-C8-N9	11.21	118.70	113.10
26	BB	2817	U	N3-C4-O4	11.21	127.25	119.40
26	BB	983	A	O4'-C1'-N9	11.21	117.17	108.20
1	AA	43	C	O4'-C1'-N1	11.20	117.16	108.20
1	AA	597	G	N1-C6-O6	11.20	126.62	119.90
26	BB	90	U	O4'-C1'-N1	11.21	117.16	108.20
26	BB	1644	C	O4'-C1'-N1	11.21	117.16	108.20
25	BA	41	G	C6-N1-C2	-11.20	118.38	125.10
26	BB	2315	G	C8-N9-C4	-11.20	101.92	106.40
1	AA	988	G	C4-C5-N7	-11.20	106.32	110.80
26	BB	1050	A	C4'-C3'-C2'	-11.19	91.41	102.60
25	BA	98	G	N7-C8-N9	11.19	118.69	113.10
26	BB	76	C	C4-C5-C6	-11.19	111.80	117.40
1	AA	54	C	N3-C4-C5	11.19	126.38	121.90
26	BB	338	G	C8-N9-C4	-11.19	101.92	106.40
26	BB	257	C	O4'-C1'-N1	11.19	117.15	108.20
26	BB	285	G	C8-N9-C4	-11.19	101.93	106.40
26	BB	1158	C	C5-C6-N1	11.19	126.59	121.00
26	BB	2732	G	C4-C5-N7	-11.19	106.33	110.80
42	BR	38	ARG	NE-CZ-NH1	-11.19	114.71	120.30
1	AA	1094	G	N7-C8-N9	11.18	118.69	113.10
26	BB	1660	G	O4'-C1'-N9	11.18	117.15	108.20
1	AA	1102	A	O4'-C1'-N9	11.18	117.14	108.20
26	BB	546	U	C2-N3-C4	-11.18	120.29	127.00
26	BB	1281	G	N3-C4-C5	-11.18	123.01	128.60
26	BB	1415	U	N3-C2-O2	-11.18	114.37	122.20
26	BB	2785	C	N3-C4-C5	-11.18	117.43	121.90
26	BB	751	A	N7-C8-N9	11.18	119.39	113.80
1	AA	449	G	N9-C4-C5	11.17	109.87	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1459	G	C1'-O4'-C4'	-11.17	100.96	109.90
26	BB	1977	A	O4'-C1'-N9	11.17	117.14	108.20
1	AA	735	C	N3-C2-O2	-11.17	114.08	121.90
1	AA	1535	C	C6-N1-C2	-11.17	115.83	120.30
26	BB	312	G	N3-C4-N9	11.17	132.70	126.00
26	BB	1079	C	C2-N3-C4	11.17	125.48	119.90
26	BB	1945	G	C5-N7-C8	11.17	109.89	104.30
26	BB	2072	C	N1-C2-O2	11.17	125.60	118.90
1	AA	748	G	C5-C6-N1	11.16	117.08	111.50
26	BB	266	G	N7-C8-N9	11.16	118.68	113.10
1	AA	1155	A	N7-C8-N9	11.16	119.38	113.80
2	AB	74	C	C2-N3-C4	11.16	125.48	119.90
26	BB	1778	U	O4'-C1'-N1	11.16	117.13	108.20
26	BB	2744	G	C4-C5-N7	-11.16	106.33	110.80
26	BB	234	U	C5-C4-O4	11.16	132.60	125.90
26	BB	989	G	O4'-C1'-N9	11.16	117.13	108.20
26	BB	321	U	N3-C4-C5	-11.16	107.91	114.60
2	AB	41	C	O4'-C1'-N1	11.15	117.12	108.20
4	AD	19	G	N3-C4-C5	-11.15	123.02	128.60
26	BB	1645	G	C8-N9-C4	-11.15	101.94	106.40
26	BB	2614	A	N7-C8-N9	11.15	119.37	113.80
13	AM	31	ARG	NE-CZ-NH2	-11.14	114.73	120.30
26	BB	349	U	O4'-C1'-N1	11.14	117.11	108.20
26	BB	1250	G	O4'-C1'-N9	11.14	117.12	108.20
1	AA	1164	G	O4'-C1'-N9	11.14	117.11	108.20
26	BB	1048	A	C8-N9-C4	-11.14	101.34	105.80
45	BU	88	ARG	NE-CZ-NH1	-11.14	114.73	120.30
1	AA	1240	U	N3-C2-O2	-11.14	114.40	122.20
1	AA	700	G	C5'-C4'-O4'	11.13	122.46	109.10
1	AA	1525	G	C8-N9-C4	-11.14	101.95	106.40
26	BB	460	A	C5-N7-C8	11.13	109.47	103.90
26	BB	611	C	N3-C4-C5	-11.13	117.45	121.90
26	BB	2616	C	N1-C2-O2	11.13	125.58	118.90
1	AA	1184	G	C2-N3-C4	-11.13	106.33	111.90
3	AC	15	G	N7-C8-N9	11.13	118.67	113.10
26	BB	430	A	N1-C2-N3	-11.13	123.73	129.30
26	BB	1162	G	O4'-C1'-N9	11.13	117.11	108.20
1	AA	677	U	C4-C5-C6	11.13	126.38	119.70
1	AA	1080	A	O4'-C1'-N9	11.13	117.10	108.20
1	AA	720	C	C3'-C2'-C1'	11.13	110.40	101.50
26	BB	2096	C	O4'-C1'-N1	11.12	117.10	108.20
26	BB	2271	G	N1-C2-N3	-11.12	117.22	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1237	C	N3-C4-C5	-11.12	117.45	121.90
25	BA	102	G	C4'-C3'-C2'	-11.12	91.48	102.60
26	BB	2758	A	C5-C6-N1	11.12	123.26	117.70
51	B0	47	ARG	NE-CZ-NH2	11.12	125.86	120.30
1	AA	322	C	O4'-C1'-N1	11.12	117.10	108.20
26	BB	1519	G	N7-C8-N9	11.12	118.66	113.10
1	AA	1021	A	N1-C2-N3	-11.12	123.74	129.30
26	BB	159	G	N3-C4-C5	-11.12	123.04	128.60
26	BB	637	A	C5-C6-N1	11.12	123.26	117.70
26	BB	1575	C	C6-N1-C2	-11.12	115.85	120.30
7	AG	61	ARG	NE-CZ-NH1	11.12	125.86	120.30
26	BB	1185	G	C5-C6-N1	11.12	117.06	111.50
26	BB	1684	G	C4-C5-N7	11.11	115.25	110.80
26	BB	1800	C	C2-N3-C4	11.11	125.45	119.90
1	AA	1349	A	N7-C8-N9	-11.11	108.25	113.80
26	BB	78	U	O4'-C1'-N1	11.11	117.09	108.20
26	BB	439	A	C5'-C4'-O4'	11.11	122.43	109.10
26	BB	2668	G	N9-C4-C5	11.11	109.84	105.40
26	BB	2757	A	C3'-C2'-C1'	11.11	110.39	101.50
26	BB	700	G	C2-N3-C4	11.11	117.45	111.90
26	BB	214	G	N9-C4-C5	11.11	109.84	105.40
26	BB	1226	A	C4-C5-N7	-11.11	105.15	110.70
26	BB	2618	G	C8-N9-C4	-11.11	101.96	106.40
49	BY	38	ARG	NE-CZ-NH1	11.11	125.85	120.30
1	AA	581	G	C2-N3-C4	11.10	117.45	111.90
1	AA	1533	C	C5-C6-N1	11.10	126.55	121.00
26	BB	757	G	C5-C6-O6	-11.10	121.94	128.60
1	AA	802	A	N9-C4-C5	11.10	110.24	105.80
26	BB	2323	G	C2-N3-C4	11.10	117.45	111.90
1	AA	348	G	C8-N9-C4	-11.10	101.96	106.40
1	AA	895	G	C8-N9-C4	-11.10	101.96	106.40
26	BB	99	U	O4'-C1'-N1	11.10	117.08	108.20
26	BB	2017	U	C1'-O4'-C4'	-11.10	101.02	109.90
6	AF	178	ARG	NE-CZ-NH1	-11.09	114.76	120.30
26	BB	1491	G	N9-C4-C5	11.09	109.84	105.40
26	BB	2350	C	C5-C6-N1	11.09	126.54	121.00
4	AD	38	A	C5-C6-N1	-11.09	112.16	117.70
1	AA	64	G	N9-C4-C5	11.09	109.83	105.40
1	AA	587	G	C5-N7-C8	11.08	109.84	104.30
3	AC	20	G	N3-C4-C5	-11.08	123.06	128.60
26	BB	551	G	C5-C6-N1	11.08	117.04	111.50
26	BB	375	G	C5-C6-O6	-11.08	121.95	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1408	G	C8-N9-C4	-11.08	101.97	106.40
26	BB	1330	C	C5-C6-N1	11.07	126.54	121.00
5	AE	73	ARG	NE-CZ-NH2	-11.07	114.76	120.30
1	AA	149	A	N3-C4-N9	11.07	136.26	127.40
2	AB	13	C	O4'-C1'-N1	11.07	117.06	108.20
26	BB	1183	U	N3-C4-O4	11.07	127.15	119.40
26	BB	1400	U	C4-C5-C6	11.07	126.34	119.70
26	BB	517	C	C5-C6-N1	11.07	126.53	121.00
1	AA	731	G	N3-C4-N9	11.06	132.64	126.00
4	AD	2	G	C4-C5-N7	-11.06	106.37	110.80
26	BB	748	G	C4-C5-N7	-11.06	106.37	110.80
26	BB	837	C	N3-C4-C5	-11.06	117.47	121.90
26	BB	1236	G	C5-C6-N1	11.06	117.03	111.50
26	BB	2345	G	C8-N9-C4	-11.06	101.97	106.40
26	BB	2525	G	C5-C6-O6	-11.06	121.96	128.60
1	AA	298	A	O4'-C1'-N9	11.06	117.05	108.20
26	BB	1590	A	C8-N9-C4	-11.06	101.38	105.80
1	AA	741	G	C5-C6-O6	-11.06	121.97	128.60
26	BB	1736	U	C2-N3-C4	-11.05	120.37	127.00
1	AA	1341	U	C2-N3-C4	-11.05	120.37	127.00
4	AD	69	C	O4'-C1'-N1	11.05	117.04	108.20
46	BV	84	TYR	CB-CG-CD2	-11.05	114.37	121.00
1	AA	1159	U	N3-C4-O4	11.05	127.14	119.40
26	BB	601	C	C1'-O4'-C4'	11.05	118.74	109.90
26	BB	301	G	N9-C4-C5	11.04	109.82	105.40
26	BB	2521	C	O4'-C1'-N1	11.04	117.04	108.20
26	BB	93	G	N1-C6-O6	11.04	126.53	119.90
1	AA	1083	U	O4'-C1'-N1	11.04	117.03	108.20
1	AA	1418	A	C5-N7-C8	11.04	109.42	103.90
26	BB	1483	G	N7-C8-N9	11.04	118.62	113.10
26	BB	2259	U	C5-C6-N1	-11.04	117.18	122.70
26	BB	1446	C	C2-N3-C4	11.04	125.42	119.90
1	AA	413	G	O4'-C1'-N9	11.04	117.03	108.20
1	AA	1294	G	N3-C4-C5	-11.04	123.08	128.60
26	BB	613	A	O4'-C1'-N9	11.04	117.03	108.20
26	BB	1434	A	N9-C4-C5	-11.04	101.39	105.80
1	AA	1177	G	N7-C8-N9	11.04	118.62	113.10
26	BB	1773	A	C5'-C4'-O4'	11.04	122.34	109.10
26	BB	1863	G	C3'-C2'-C1'	-11.04	92.67	101.50
1	AA	303	A	C8-N9-C4	-11.03	101.39	105.80
1	AA	1251	A	C3'-C2'-C1'	11.03	110.32	101.50
26	BB	1188	U	N3-C2-O2	-11.03	114.48	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2423	U	C6-N1-C2	-11.03	114.39	121.00
56	B5	28	ARG	NE-CZ-NH2	-11.03	114.79	120.30
1	AA	585	G	C8-N9-C4	-11.02	101.99	106.40
25	BA	90	C	N3-C4-C5	-11.02	117.49	121.90
26	BB	1515	A	C5-N7-C8	11.02	109.41	103.90
26	BB	2815	C	O4'-C1'-N1	11.02	117.01	108.20
1	AA	715	A	C5-C6-N1	11.01	123.21	117.70
26	BB	2042	A	C2-N3-C4	-11.01	105.09	110.60
3	AC	21	U	C5-C6-N1	-11.01	117.19	122.70
26	BB	1750	G	N7-C8-N9	-11.01	107.59	113.10
26	BB	813	U	O4'-C1'-N1	11.01	117.01	108.20
26	BB	1607	C	N3-C4-C5	-11.01	117.50	121.90
26	BB	2071	A	N1-C2-N3	-11.01	123.80	129.30
26	BB	2621	G	C8-N9-C4	-11.01	102.00	106.40
1	AA	929	G	O4'-C1'-N9	11.00	117.00	108.20
26	BB	450	G	C8-N9-C4	-11.00	102.00	106.40
26	BB	1338	G	N9-C4-C5	11.00	109.80	105.40
26	BB	1655	A	N7-C8-N9	11.00	119.30	113.80
26	BB	1157	G	C5-C6-O6	-11.00	122.00	128.60
26	BB	1180	U	C5-C4-O4	-11.00	119.30	125.90
26	BB	2446	G	C6-N1-C2	-11.00	118.50	125.10
1	AA	62	U	C5-C4-O4	-10.99	119.30	125.90
26	BB	2540	C	C2-N3-C4	10.99	125.40	119.90
26	BB	2561	U	O4'-C1'-N1	10.99	117.00	108.20
26	BB	539	G	C5-N7-C8	-10.99	98.81	104.30
1	AA	433	G	C8-N9-C4	-10.99	102.00	106.40
26	BB	2257	U	N3-C4-O4	-10.99	111.71	119.40
26	BB	741	U	O4'-C1'-N1	10.99	116.99	108.20
1	AA	444	G	O4'-C1'-N9	10.98	116.99	108.20
26	BB	2459	A	C8-N9-C4	-10.98	101.41	105.80
4	AD	17	C	C5-C6-N1	10.98	126.49	121.00
1	AA	347	G	C2-N3-C4	10.98	117.39	111.90
1	AA	1350	A	C5'-C4'-O4'	10.98	122.27	109.10
1	AA	1521	C	C5-C6-N1	10.98	126.49	121.00
38	BN	21	ARG	NE-CZ-NH2	-10.98	114.81	120.30
1	AA	1228	C	C4-C5-C6	-10.98	111.91	117.40
26	BB	256	A	C3'-C2'-C1'	10.98	110.28	101.50
1	AA	727	G	N3-C4-C5	-10.97	123.11	128.60
26	BB	1068	G	N3-C4-N9	10.97	132.59	126.00
1	AA	584	G	N3-C4-C5	-10.97	123.11	128.60
1	AA	710	G	N9-C4-C5	10.97	109.79	105.40
25	BA	47	C	C5-C4-N4	-10.97	112.52	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	925	A	O4'-C1'-N9	10.97	116.98	108.20
26	BB	2015	A	N9-C4-C5	10.97	110.19	105.80
1	AA	322	C	C6-N1-C2	-10.97	115.91	120.30
26	BB	93	G	C5-C6-O6	-10.97	122.02	128.60
26	BB	619	G	N3-C4-C5	-10.97	123.11	128.60
26	BB	1550	C	O4'-C1'-N1	10.97	116.98	108.20
26	BB	1736	U	C5-C4-O4	-10.97	119.32	125.90
1	AA	874	G	N3-C4-C5	-10.97	123.12	128.60
26	BB	527	C	N3-C4-C5	-10.97	117.51	121.90
26	BB	669	G	C2-N3-C4	10.97	117.38	111.90
26	BB	1953	A	N7-C8-N9	10.97	119.28	113.80
26	BB	1981	A	C2-N3-C4	10.97	116.08	110.60
29	BE	59	ARG	NE-CZ-NH1	-10.97	114.82	120.30
16	AP	56	ARG	NE-CZ-NH2	-10.96	114.82	120.30
26	BB	343	C	N3-C4-N4	10.96	125.68	118.00
26	BB	687	C	O4'-C1'-N1	10.96	116.97	108.20
26	BB	772	C	C5-C6-N1	10.96	126.48	121.00
26	BB	1617	C	C5-C6-N1	10.97	126.48	121.00
26	BB	602	A	N3-C4-C5	-10.96	119.13	126.80
1	AA	135	C	C1'-O4'-C4'	-10.96	101.13	109.90
1	AA	157	U	C5-C4-O4	-10.96	119.32	125.90
26	BB	592	A	N9-C4-C5	10.96	110.18	105.80
1	AA	581	G	N1-C6-O6	10.96	126.47	119.90
1	AA	1168	U	C2-N3-C4	-10.96	120.43	127.00
8	AH	156	ARG	NE-CZ-NH1	10.96	125.78	120.30
26	BB	575	A	N1-C6-N6	10.95	125.17	118.60
26	BB	2810	A	N9-C4-C5	10.95	110.18	105.80
26	BB	491	G	C5-C6-O6	-10.95	122.03	128.60
26	BB	604	G	N9-C4-C5	10.95	109.78	105.40
26	BB	2788	C	C6-N1-C2	-10.95	115.92	120.30
26	BB	2006	C	N3-C4-C5	-10.95	117.52	121.90
26	BB	2795	C	O4'-C1'-N1	10.95	116.96	108.20
40	BP	21	PHE	CB-CG-CD2	-10.95	113.13	120.80
1	AA	998	C	O4'-C1'-N1	10.95	116.96	108.20
26	BB	1973	G	C8-N9-C4	-10.95	102.02	106.40
26	BB	355	U	C5-C6-N1	-10.95	117.23	122.70
26	BB	563	A	C5-C6-N1	-10.95	112.23	117.70
26	BB	757	G	O4'-C1'-N9	10.95	116.96	108.20
26	BB	2318	G	N7-C8-N9	10.94	118.57	113.10
26	BB	2794	C	O4'-C1'-N1	10.94	116.95	108.20
26	BB	2231	U	O4'-C1'-N1	10.94	116.95	108.20
26	BB	1123	C	C6-N1-C2	-10.94	115.93	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1248	G	C4-C5-N7	10.94	115.17	110.80
1	AA	871	U	N3-C2-O2	-10.93	114.55	122.20
26	BB	315	G	N3-C4-N9	10.93	132.56	126.00
26	BB	495	G	C8-N9-C4	-10.93	102.03	106.40
26	BB	740	C	C2-N3-C4	-10.93	114.43	119.90
26	BB	1784	A	C3'-C2'-C1'	10.93	110.25	101.50
26	BB	2798	U	O4'-C1'-N1	10.93	116.95	108.20
1	AA	1358	U	O4'-C1'-N1	10.93	116.94	108.20
4	AD	16	C	C1'-O4'-C4'	-10.93	101.16	109.90
26	BB	1339	G	C4-C5-N7	-10.93	106.43	110.80
26	BB	2506	U	O4'-C1'-N1	10.93	116.94	108.20
1	AA	180	U	N1-C2-O2	-10.93	115.15	122.80
1	AA	543	U	C4-C5-C6	10.93	126.25	119.70
12	AL	10	ARG	NE-CZ-NH2	-10.92	114.84	120.30
26	BB	1824	G	C5-N7-C8	-10.92	98.84	104.30
26	BB	1029	A	O4'-C1'-N9	10.92	116.94	108.20
1	AA	1541	U	O4'-C1'-N1	10.92	116.94	108.20
1	AA	1015	G	N7-C8-N9	10.92	118.56	113.10
1	AA	1105	A	C4'-C3'-C2'	-10.92	91.68	102.60
3	AC	41	A	C8-N9-C4	-10.92	101.43	105.80
26	BB	2272	U	C2-N3-C4	-10.92	120.45	127.00
26	BB	2595	G	O4'-C1'-N9	10.92	116.93	108.20
1	AA	334	C	C6-N1-C2	10.91	124.67	120.30
1	AA	1352	C	O4'-C1'-N1	10.91	116.93	108.20
1	AA	1467	C	N3-C4-C5	10.91	126.27	121.90
26	BB	177	G	O4'-C1'-N9	10.91	116.93	108.20
1	AA	45	G	C8-N9-C4	-10.91	102.04	106.40
1	AA	925	G	N3-C4-C5	-10.91	123.14	128.60
3	AC	30	U	N3-C2-O2	-10.91	114.56	122.20
26	BB	180	G	C4-C5-N7	-10.91	106.44	110.80
1	AA	1184	G	N7-C8-N9	10.90	118.55	113.10
31	BG	177	ARG	NE-CZ-NH2	-10.90	114.85	120.30
1	AA	974	A	C6-N1-C2	10.90	125.14	118.60
18	AR	77	TYR	CB-CG-CD1	-10.90	114.46	121.00
1	AA	293	G	C4-C5-N7	-10.90	106.44	110.80
26	BB	2744	G	N3-C4-C5	-10.90	123.15	128.60
1	AA	100	G	C8-N9-C4	-10.90	102.04	106.40
1	AA	1160	G	C6-C5-N7	-10.90	123.86	130.40
26	BB	2480	C	O4'-C1'-N1	10.90	116.92	108.20
26	BB	2583	G	N3-C2-N2	10.90	127.53	119.90
28	BD	220	ARG	NE-CZ-NH2	-10.90	114.85	120.30
1	AA	1082	A	N1-C2-N3	-10.89	123.85	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	51	G	C8-N9-C4	-10.89	102.04	106.40
26	BB	515	A	C5-N7-C8	-10.89	98.45	103.90
26	BB	647	G	C8-N9-C4	-10.89	102.05	106.40
26	BB	1515	A	C8-N9-C4	10.89	110.16	105.80
1	AA	98	A	N1-C2-N3	-10.88	123.86	129.30
1	AA	205	A	N1-C2-N3	-10.89	123.86	129.30
26	BB	494	G	C5-C6-N1	10.88	116.94	111.50
26	BB	2535	G	N9-C4-C5	10.88	109.75	105.40
1	AA	622	A	N1-C2-N3	-10.88	123.86	129.30
1	AA	863	U	C4'-C3'-C2'	-10.88	91.72	102.60
1	AA	1252	A	O4'-C1'-N9	10.88	116.91	108.20
26	BB	2423	U	N1-C2-N3	10.88	121.43	114.90
1	AA	572	A	C8-N9-C4	-10.88	101.45	105.80
25	BA	35	C	O4'-C1'-N1	10.88	116.90	108.20
26	BB	654	A	C5-N7-C8	10.88	109.34	103.90
26	BB	648	G	O4'-C1'-N9	10.87	116.90	108.20
26	BB	1997	C	O4'-C1'-N1	10.87	116.90	108.20
26	BB	2227	A	C4-C5-C6	-10.87	111.56	117.00
26	BB	1377	G	C5-C6-O6	-10.87	122.08	128.60
26	BB	2832	U	C4-C5-C6	10.87	126.22	119.70
26	BB	1935	G	N3-C2-N2	-10.87	112.29	119.90
26	BB	2338	C	C1'-O4'-C4'	-10.87	101.20	109.90
29	BE	13	ARG	NE-CZ-NH2	10.87	125.73	120.30
1	AA	383	A	N9-C4-C5	10.87	110.15	105.80
26	BB	247	G	N1-C6-O6	-10.87	113.38	119.90
26	BB	346	A	O4'-C1'-N9	10.87	116.89	108.20
2	AB	74	C	O4'-C1'-N1	10.87	116.89	108.20
26	BB	727	A	N1-C2-N3	-10.87	123.87	129.30
1	AA	278	G	N9-C4-C5	10.86	109.75	105.40
1	AA	589	U	C5-C6-N1	-10.86	117.27	122.70
26	BB	1004	U	N3-C4-C5	-10.87	108.08	114.60
26	BB	82	U	N3-C2-O2	-10.86	114.60	122.20
26	BB	476	G	O4'-C1'-N9	10.86	116.89	108.20
26	BB	1752	C	C5-C4-N4	10.86	127.80	120.20
1	AA	1163	A	C4-C5-C6	-10.86	111.57	117.00
26	BB	412	A	O4'-C1'-N9	10.86	116.89	108.20
1	AA	1378	C	C2-N3-C4	10.85	125.33	119.90
26	BB	476	G	N9-C4-C5	10.85	109.74	105.40
26	BB	2407	A	C8-N9-C4	-10.85	101.46	105.80
1	AA	731	G	N3-C4-C5	-10.85	123.17	128.60
26	BB	1333	G	N7-C8-N9	10.85	118.53	113.10
2	AB	7	G	N9-C4-C5	10.85	109.74	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2006	C	O4'-C1'-N1	10.85	116.88	108.20
26	BB	247	G	N9-C4-C5	10.85	109.74	105.40
26	BB	1475	G	N9-C4-C5	10.84	109.74	105.40
26	BB	1924	C	O4'-C1'-N1	10.84	116.87	108.20
26	BB	1105	U	C5-C6-N1	-10.84	117.28	122.70
26	BB	2019	A	C5-C6-N6	-10.84	115.03	123.70
26	BB	2867	G	C2-N3-C4	10.84	117.32	111.90
1	AA	22	G	C4-C5-N7	-10.83	106.47	110.80
1	AA	1045	C	N1-C2-O2	10.83	125.40	118.90
1	AA	1156	G	C2-N3-C4	10.83	117.32	111.90
26	BB	770	G	C6-C5-N7	-10.83	123.90	130.40
1	AA	159	G	C4-C5-N7	-10.83	106.47	110.80
26	BB	592	A	C5-C6-N1	-10.83	112.29	117.70
26	BB	1315	C	N3-C4-C5	-10.83	117.57	121.90
26	BB	1570	A	C8-N9-C4	10.83	110.13	105.80
26	BB	887	U	N3-C2-O2	-10.83	114.62	122.20
26	BB	23	G	N3-C2-N2	-10.82	112.32	119.90
1	AA	955	U	N3-C2-O2	-10.82	114.62	122.20
26	BB	407	G	N9-C4-C5	10.82	109.73	105.40
1	AA	76	G	C5-N7-C8	-10.82	98.89	104.30
1	AA	485	U	N3-C4-O4	10.82	126.98	119.40
1	AA	1517	G	N9-C4-C5	10.82	109.73	105.40
26	BB	549	G	N3-C2-N2	10.82	127.47	119.90
26	BB	1026	G	C2-N3-C4	10.82	117.31	111.90
26	BB	1637	A	C3'-C2'-C1'	10.82	110.16	101.50
26	BB	1929	G	C8-N9-C4	-10.82	102.07	106.40
1	AA	370	C	C5-C4-N4	-10.82	112.63	120.20
1	AA	35	G	C2-N3-C4	10.82	117.31	111.90
3	AC	22	G	N1-C6-O6	-10.82	113.41	119.90
26	BB	75	G	N3-C4-N9	10.82	132.49	126.00
26	BB	2116	G	N7-C8-N9	10.82	118.51	113.10
1	AA	1258	G	C6-N1-C2	-10.81	118.61	125.10
26	BB	920	A	N1-C6-N6	10.81	125.09	118.60
26	BB	1343	G	N3-C4-C5	-10.81	123.19	128.60
26	BB	2377	A	C8-N9-C4	-10.81	101.47	105.80
1	AA	1039	G	C5-N7-C8	-10.81	98.89	104.30
1	AA	666	G	C4-C5-C6	10.81	125.29	118.80
26	BB	118	A	N1-C6-N6	-10.81	112.11	118.60
26	BB	198	C	O4'-C1'-N1	10.81	116.85	108.20
26	BB	739	A	N9-C4-C5	10.81	110.12	105.80
26	BB	303	G	C6-C5-N7	-10.81	123.92	130.40
1	AA	475	C	O4'-C1'-N1	10.80	116.84	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	86	G	C5-C6-N1	10.80	116.90	111.50
1	AA	167	A	O4'-C1'-N9	10.80	116.84	108.20
1	AA	1090	U	C5-C4-O4	-10.80	119.42	125.90
26	BB	875	G	C5-N7-C8	10.80	109.70	104.30
1	AA	115	G	N3-C4-N9	10.80	132.48	126.00
1	AA	441	A	O4'-C1'-N9	10.80	116.84	108.20
1	AA	482	A	C8-N9-C4	-10.80	101.48	105.80
1	AA	1003	G	C8-N9-C4	-10.80	102.08	106.40
1	AA	822	U	O4'-C1'-N1	10.80	116.84	108.20
26	BB	1949	G	N9-C4-C5	10.80	109.72	105.40
26	BB	2099	U	O4'-C1'-N1	10.80	116.84	108.20
1	AA	785	G	N3-C2-N2	-10.80	112.34	119.90
26	BB	577	G	O4'-C1'-N9	10.79	116.84	108.20
26	BB	1685	C	O4'-C1'-N1	10.80	116.84	108.20
26	BB	1721	G	N7-C8-N9	10.79	118.50	113.10
26	BB	834	G	C2-N3-C4	10.79	117.30	111.90
1	AA	941	G	C5-C6-O6	-10.79	122.13	128.60
1	AA	983	A	C2-N3-C4	10.79	115.99	110.60
26	BB	502	A	N9-C4-C5	10.79	110.11	105.80
26	BB	1541	C	O4'-C1'-N1	10.79	116.83	108.20
26	BB	2024	G	C4-C5-N7	-10.79	106.48	110.80
26	BB	2058	A	O4'-C1'-N9	-10.79	99.57	108.20
1	AA	1106	G	C5-C6-O6	-10.78	122.13	128.60
26	BB	960	A	N7-C8-N9	10.79	119.19	113.80
26	BB	1327	A	N1-C2-N3	-10.78	123.91	129.30
26	BB	2819	G	N1-C2-N3	-10.79	117.43	123.90
1	AA	770	C	C6-N1-C2	-10.78	115.99	120.30
26	BB	986	C	O4'-C1'-N1	10.78	116.83	108.20
26	BB	2858	C	N3-C4-C5	-10.78	117.59	121.90
1	AA	177	G	C8-N9-C4	-10.78	102.09	106.40
2	AB	75	C	N3-C2-O2	-10.78	114.36	121.90
26	BB	1761	C	N3-C4-C5	-10.78	117.59	121.90
26	BB	2314	A	C4'-C3'-C2'	-10.78	91.82	102.60
1	AA	1034	G	C5-N7-C8	-10.77	98.91	104.30
26	BB	304	U	O4'-C1'-N1	10.77	116.82	108.20
26	BB	2568	U	C5-C4-O4	-10.77	119.44	125.90
1	AA	701	U	C6-N1-C2	10.77	127.46	121.00
26	BB	853	C	N1-C2-O2	10.77	125.36	118.90
26	BB	1140	C	N3-C2-O2	-10.77	114.36	121.90
26	BB	893	C	N3-C4-C5	-10.77	117.59	121.90
1	AA	863	U	C3'-C2'-C1'	10.76	110.11	101.50
26	BB	1813	G	N9-C4-C5	10.76	109.70	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2238	G	C8-N9-C4	-10.76	102.09	106.40
26	BB	2636	C	O4'-C1'-N1	10.76	116.81	108.20
9	AI	78	PHE	CB-CG-CD2	-10.76	113.27	120.80
1	AA	602	A	N9-C4-C5	10.76	110.10	105.80
26	BB	4	U	C4-C5-C6	10.76	126.16	119.70
26	BB	113	U	N1-C2-N3	10.76	121.35	114.90
26	BB	811	U	C5-C4-O4	-10.76	119.45	125.90
26	BB	2213	U	C5'-C4'-O4'	10.75	122.00	109.10
1	AA	1233	G	C5-N7-C8	-10.75	98.92	104.30
1	AA	893	C	C6-N1-C2	10.75	124.60	120.30
26	BB	811	U	N3-C4-O4	10.75	126.92	119.40
26	BB	1046	A	C8-N9-C4	-10.75	101.50	105.80
26	BB	1281	G	N3-C4-N9	10.75	132.45	126.00
26	BB	1363	C	N1-C2-O2	10.75	125.35	118.90
26	BB	2509	G	N3-C4-C5	-10.75	123.22	128.60
26	BB	1679	A	N9-C4-C5	10.75	110.10	105.80
1	AA	107	G	C5-N7-C8	10.75	109.67	104.30
11	AK	116	ARG	NE-CZ-NH2	-10.75	114.93	120.30
25	BA	41	G	N3-C2-N2	-10.74	112.38	119.90
26	BB	121	G	N1-C6-O6	10.74	126.34	119.90
26	BB	1677	A	C5-N7-C8	10.74	109.27	103.90
26	BB	2407	A	N1-C6-N6	-10.74	112.16	118.60
1	AA	191	G	C5-C6-N1	10.74	116.87	111.50
26	BB	438	G	O4'-C1'-N9	10.74	116.79	108.20
1	AA	1177	G	N9-C4-C5	10.73	109.69	105.40
26	BB	2655	G	C1'-O4'-C4'	-10.73	101.31	109.90
1	AA	1262	C	N1-C2-O2	10.73	125.34	118.90
26	BB	2437	G	C8-N9-C4	-10.73	102.11	106.40
26	BB	2500	U	C5-C6-N1	10.73	128.07	122.70
26	BB	67	U	O4'-C1'-N1	10.73	116.79	108.20
26	BB	899	A	C8-N9-C4	-10.73	101.51	105.80
1	AA	1078	U	N3-C4-C5	-10.73	108.16	114.60
26	BB	297	G	C4-C5-N7	-10.73	106.51	110.80
26	BB	600	G	N1-C6-O6	10.73	126.34	119.90
26	BB	989	G	N3-C4-C5	-10.73	123.23	128.60
26	BB	1547	C	C5-C6-N1	-10.73	115.64	121.00
26	BB	2856	A	C5-C6-N6	-10.73	115.11	123.70
1	AA	159	G	C8-N9-C4	-10.73	102.11	106.40
1	AA	264	C	N1-C2-O2	10.72	125.33	118.90
26	BB	1382	G	N9-C4-C5	10.72	109.69	105.40
26	BB	1511	G	O4'-C1'-N9	10.72	116.78	108.20
26	BB	1907	G	C1'-O4'-C4'	10.72	118.47	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1080	A	N9-C4-C5	10.72	110.09	105.80
26	BB	2022	U	C5-C6-N1	-10.72	117.34	122.70
1	AA	667	G	C4-C5-N7	-10.71	106.51	110.80
26	BB	1766	G	C8-N9-C4	-10.71	102.11	106.40
1	AA	841	C	N3-C4-C5	-10.71	117.61	121.90
26	BB	640	C	N3-C2-O2	-10.71	114.40	121.90
1	AA	617	G	N9-C4-C5	10.71	109.68	105.40
26	BB	1248	G	C6-C5-N7	-10.71	123.97	130.40
26	BB	2048	G	C2-N3-C4	10.71	117.26	111.90
26	BB	2205	A	C8-N9-C4	-10.71	101.52	105.80
1	AA	144	G	C2-N3-C4	10.71	117.25	111.90
1	AA	338	A	N7-C8-N9	10.71	119.15	113.80
1	AA	389	A	C8-N9-C4	-10.71	101.52	105.80
1	AA	1466	C	C3'-C2'-C1'	10.71	110.07	101.50
26	BB	1555	G	N7-C8-N9	10.71	118.45	113.10
26	BB	2571	U	O4'-C1'-N1	10.71	116.77	108.20
26	BB	2599	G	N9-C4-C5	10.71	109.68	105.40
1	AA	756	C	N1-C2-O2	10.71	125.32	118.90
1	AA	331	G	C5'-C4'-O4'	10.70	121.94	109.10
1	AA	1186	G	C5-C6-N1	-10.71	106.15	111.50
25	BA	78	A	N1-C2-N3	-10.71	123.95	129.30
26	BB	2394	C	N3-C4-C5	-10.70	117.62	121.90
1	AA	1443	C	O4'-C1'-N1	10.70	116.76	108.20
26	BB	52	A	N1-C6-N6	-10.70	112.18	118.60
1	AA	1106	G	O4'-C1'-N9	10.70	116.76	108.20
26	BB	1426	G	N3-C4-C5	-10.70	123.25	128.60
31	BG	101	ARG	NE-CZ-NH1	-10.70	114.95	120.30
41	BQ	102	ARG	NE-CZ-NH2	-10.70	114.95	120.30
1	AA	487	A	O4'-C1'-N9	10.69	116.75	108.20
1	AA	325	A	O4'-C1'-N9	10.69	116.75	108.20
26	BB	1381	G	C5-C6-O6	-10.69	122.18	128.60
1	AA	1221	G	N3-C4-C5	-10.69	123.25	128.60
1	AA	1273	C	C2-N3-C4	10.69	125.25	119.90
2	AB	34	C	N3-C4-N4	10.69	125.48	118.00
26	BB	1197	G	O4'-C1'-N9	10.69	116.75	108.20
26	BB	1123	C	C5-C6-N1	10.69	126.34	121.00
26	BB	1170	C	O4'-C1'-N1	10.69	116.75	108.20
26	BB	2832	U	N3-C2-O2	-10.69	114.72	122.20
1	AA	23	C	C2-N3-C4	10.69	125.24	119.90
1	AA	546	A	C4-C5-N7	-10.69	105.36	110.70
26	BB	1760	C	N1-C2-O2	10.69	125.31	118.90
1	AA	1003	G	N3-C4-C5	-10.68	123.26	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	323	C	O4'-C1'-N1	10.68	116.75	108.20
26	BB	730	A	C6-N1-C2	-10.68	112.19	118.60
1	AA	1522	U	C5-C6-N1	-10.68	117.36	122.70
26	BB	1866	A	C5-N7-C8	10.68	109.24	103.90
26	BB	2338	C	C2-N3-C4	10.68	125.24	119.90
1	AA	826	C	C6-N1-C2	10.68	124.57	120.30
26	BB	1984	G	O4'-C1'-N9	10.68	116.74	108.20
1	AA	1447	A	C2-N3-C4	10.68	115.94	110.60
26	BB	1934	C	O4'-C1'-N1	10.68	116.74	108.20
26	BB	2390	U	O4'-C1'-N1	10.68	116.74	108.20
56	B5	5	PHE	CB-CG-CD1	10.68	128.27	120.80
1	AA	1116	U	O4'-C1'-N1	10.67	116.74	108.20
26	BB	2621	G	C4-C5-N7	-10.67	106.53	110.80
26	BB	1788	C	N3-C4-N4	10.67	125.47	118.00
4	AD	71	G	C8-N9-C4	-10.67	102.13	106.40
1	AA	303	A	N3-C4-C5	-10.66	119.33	126.80
26	BB	2809	A	C8-N9-C4	-10.66	101.53	105.80
1	AA	1301	U	C5-C6-N1	-10.66	117.37	122.70
3	AC	14	G	C2-N3-C4	10.66	117.23	111.90
1	AA	57	G	N9-C4-C5	10.66	109.66	105.40
1	AA	865	A	C8-N9-C4	-10.66	101.54	105.80
26	BB	401	A	C8-N9-C4	-10.66	101.54	105.80
26	BB	1110	G	C8-N9-C4	-10.66	102.14	106.40
26	BB	1381	G	N3-C4-C5	-10.66	123.27	128.60
26	BB	1720	U	C5-C4-O4	-10.66	119.50	125.90
26	BB	716	A	N1-C2-N3	-10.66	123.97	129.30
1	AA	378	G	O4'-C1'-N9	10.65	116.72	108.20
1	AA	1024	G	O4'-C1'-N9	10.65	116.72	108.20
26	BB	2010	G	N3-C4-C5	-10.65	123.27	128.60
26	BB	550	C	C5-C4-N4	-10.65	112.74	120.20
26	BB	1661	G	N9-C4-C5	10.65	109.66	105.40
1	AA	1223	C	N3-C4-C5	-10.65	117.64	121.90
1	AA	1278	G	N3-C4-C5	-10.65	123.28	128.60
16	AP	22	TYR	CB-CG-CD1	10.65	127.39	121.00
26	BB	1713	A	C8-N9-C4	-10.65	101.54	105.80
1	AA	281	G	C5-N7-C8	10.64	109.62	104.30
1	AA	1112	C	C2-N3-C4	10.64	125.22	119.90
1	AA	1432	G	N3-C4-C5	-10.64	123.28	128.60
26	BB	1590	A	C2-N3-C4	10.64	115.92	110.60
26	BB	1844	C	N3-C2-O2	-10.64	114.45	121.90
26	BB	1391	U	C1'-O4'-C4'	-10.64	101.39	109.90
26	BB	1824	G	C5-C6-N1	10.64	116.82	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1929	G	N3-C4-N9	10.64	132.38	126.00
26	BB	2536	G	N7-C8-N9	10.64	118.42	113.10
26	BB	2823	A	C8-N9-C4	-10.64	101.54	105.80
33	BI	123	ARG	NE-CZ-NH2	-10.64	114.98	120.30
1	AA	1529	G	O4'-C1'-N9	10.64	116.71	108.20
26	BB	1355	G	C5-N7-C8	10.64	109.62	104.30
26	BB	1734	G	O4'-C1'-N9	10.64	116.71	108.20
26	BB	462	C	O4'-C1'-N1	10.63	116.71	108.20
1	AA	1419	G	N1-C2-N3	-10.63	117.52	123.90
1	AA	1455	G	C4-C5-N7	-10.63	106.55	110.80
26	BB	1941	C	C6-N1-C2	10.63	124.55	120.30
1	AA	144	G	C8-N9-C4	-10.63	102.15	106.40
1	AA	1131	G	N7-C8-N9	10.63	118.42	113.10
26	BB	2021	C	C4-C5-C6	-10.63	112.09	117.40
37	BM	70	ARG	NE-CZ-NH1	10.63	125.61	120.30
1	AA	253	A	N9-C4-C5	-10.63	101.55	105.80
26	BB	2690	U	C3'-C2'-C1'	10.62	110.00	101.50
26	BB	2870	C	C4-C5-C6	-10.62	112.09	117.40
26	BB	1461	C	O4'-C1'-N1	10.62	116.70	108.20
1	AA	1262	C	C5'-C4'-O4'	10.62	121.84	109.10
26	BB	2200	C	O4'-C1'-N1	10.62	116.70	108.20
26	BB	2246	G	C4-C5-N7	10.62	115.05	110.80
26	BB	2641	G	C2-N3-C4	10.62	117.21	111.90
1	AA	293	G	N9-C4-C5	10.61	109.65	105.40
1	AA	615	G	C8-N9-C4	-10.62	102.15	106.40
1	AA	917	G	N9-C4-C5	10.62	109.65	105.40
1	AA	141	G	C6-N1-C2	-10.61	118.73	125.10
1	AA	275	G	O4'-C1'-N9	10.61	116.69	108.20
1	AA	943	U	O4'-C1'-N1	10.61	116.69	108.20
25	BA	101	A	N7-C8-N9	10.61	119.10	113.80
1	AA	615	G	C4-C5-N7	10.61	115.04	110.80
26	BB	236	C	O4'-C1'-N1	10.61	116.69	108.20
26	BB	1807	G	C4-C5-N7	-10.61	106.56	110.80
26	BB	2876	G	N1-C6-O6	10.61	126.26	119.90
26	BB	1556	C	O4'-C1'-N1	10.61	116.68	108.20
26	BB	2485	G	C2-N3-C4	10.61	117.20	111.90
2	AB	51	G	O4'-C1'-N9	10.60	116.68	108.20
26	BB	2338	C	N3-C4-C5	-10.60	117.66	121.90
26	BB	2596	U	N3-C2-O2	-10.60	114.78	122.20
43	BS	57	ARG	NE-CZ-NH1	10.60	125.60	120.30
1	AA	695	A	C5-N7-C8	10.60	109.20	103.90
4	AD	73	A	C4-C5-C6	-10.60	111.70	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1934	C	N3-C4-C5	-10.60	117.66	121.90
26	BB	2535	G	C8-N9-C4	-10.60	102.16	106.40
1	AA	1453	G	C5-C6-O6	-10.60	122.24	128.60
4	AD	48	U	O4'-C1'-N1	10.60	116.68	108.20
25	BA	57	A	C2-N3-C4	10.60	115.90	110.60
26	BB	1928	A	N1-C2-N3	-10.60	124.00	129.30
1	AA	611	C	N3-C4-C5	-10.59	117.66	121.90
26	BB	401	A	C4-C5-N7	-10.59	105.41	110.70
26	BB	878	A	C5-N7-C8	-10.59	98.60	103.90
26	BB	1318	U	C5-C4-O4	-10.59	119.55	125.90
26	BB	2638	G	C6-C5-N7	10.59	136.75	130.40
4	AD	14	A	C5-C6-N1	10.59	122.99	117.70
26	BB	1595	C	O4'-C1'-N1	10.59	116.67	108.20
26	BB	488	G	C8-N9-C4	-10.58	102.17	106.40
26	BB	519	U	O4'-C4'-C3'	10.58	114.58	104.00
26	BB	2173	A	C4-C5-N7	-10.58	105.41	110.70
49	BY	13	ARG	NE-CZ-NH1	10.58	125.59	120.30
1	AA	986	U	C2-N3-C4	-10.58	120.65	127.00
1	AA	1072	G	C6-N1-C2	-10.58	118.75	125.10
26	BB	1400	U	N3-C4-C5	-10.58	108.25	114.60
26	BB	2590	A	N1-C6-N6	-10.58	112.25	118.60
26	BB	2795	C	C6-N1-C2	-10.58	116.07	120.30
15	AO	94	TYR	CG-CD2-CE2	-10.58	112.84	121.30
25	BA	1	U	C5-C6-N1	-10.58	117.41	122.70
26	BB	342	A	C6-N1-C2	10.58	124.95	118.60
26	BB	423	A	C5-N7-C8	-10.58	98.61	103.90
26	BB	1266	G	N9-C4-C5	10.58	109.63	105.40
26	BB	1846	G	C5'-C4'-O4'	10.58	121.79	109.10
26	BB	542	C	C6-N1-C2	-10.57	116.07	120.30
26	BB	740	C	N3-C4-C5	10.57	126.13	121.90
26	BB	2135	A	N1-C2-N3	-10.57	124.01	129.30
1	AA	1292	G	O4'-C1'-N9	10.57	116.66	108.20
26	BB	175	G	C4'-C3'-C2'	-10.57	92.03	102.60
26	BB	502	A	O4'-C1'-N9	10.57	116.66	108.20
26	BB	2661	G	O4'-C1'-N9	10.57	116.66	108.20
4	AD	26	C	N3-C4-N4	10.57	125.40	118.00
26	BB	2376	A	C5-N7-C8	-10.57	98.62	103.90
26	BB	2452	C	N3-C4-C5	-10.57	117.67	121.90
26	BB	775	G	N3-C4-C5	-10.56	123.32	128.60
26	BB	1426	G	C8-N9-C4	-10.56	102.17	106.40
51	B0	29	ARG	NE-CZ-NH2	10.56	125.58	120.30
1	AA	693	G	C3'-C2'-C1'	10.56	109.95	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1013	G	N3-C2-N2	-10.56	112.51	119.90
26	BB	1589	U	N1-C2-N3	10.56	121.24	114.90
26	BB	933	A	C8-N9-C4	-10.56	101.58	105.80
1	AA	925	G	C5-C6-O6	-10.56	122.27	128.60
1	AA	1174	G	N3-C4-N9	10.55	132.33	126.00
26	BB	628	G	C8-N9-C4	-10.55	102.18	106.40
26	BB	2537	U	O4'-C1'-N1	10.55	116.64	108.20
1	AA	1325	C	O4'-C1'-N1	10.55	116.64	108.20
26	BB	810	U	O4'-C1'-N1	10.55	116.64	108.20
26	BB	1813	G	C8-N9-C4	-10.55	102.18	106.40
26	BB	592	A	C6-N1-C2	10.55	124.93	118.60
26	BB	2846	G	C6-C5-N7	-10.55	124.07	130.40
1	AA	234	C	N3-C2-O2	-10.54	114.52	121.90
26	BB	997	G	N9-C4-C5	10.54	109.62	105.40
26	BB	1176	U	O4'-C1'-N1	10.54	116.64	108.20
26	BB	2899	A	C8-N9-C4	-10.55	101.58	105.80
1	AA	825	A	N7-C8-N9	10.54	119.07	113.80
26	BB	581	C	C4-C5-C6	10.54	122.67	117.40
1	AA	210	C	C5-C4-N4	-10.54	112.82	120.20
1	AA	903	G	N3-C4-C5	-10.54	123.33	128.60
26	BB	96	C	N3-C4-C5	-10.54	117.69	121.90
26	BB	708	G	N7-C8-N9	10.54	118.37	113.10
1	AA	336	A	C8-N9-C4	-10.54	101.59	105.80
26	BB	832	U	N1-C2-N3	10.54	121.22	114.90
26	BB	1011	G	C5-C6-N1	10.54	116.77	111.50
26	BB	1064	C	C2-N3-C4	10.54	125.17	119.90
26	BB	1138	G	C6-C5-N7	10.54	136.72	130.40
26	BB	1358	G	C2-N3-C4	10.54	117.17	111.90
26	BB	1736	U	C3'-C2'-C1'	10.54	109.93	101.50
26	BB	2690	U	O4'-C1'-N1	10.54	116.63	108.20
1	AA	1057	G	C6-N1-C2	-10.53	118.78	125.10
1	AA	1103	C	N3-C4-C5	-10.53	117.69	121.90
26	BB	238	C	O4'-C1'-N1	10.53	116.63	108.20
1	AA	1248	A	O4'-C1'-N9	10.53	116.62	108.20
26	BB	601	C	C6-N1-C2	-10.53	116.09	120.30
26	BB	997	G	C4-C5-N7	-10.53	106.59	110.80
1	AA	499	A	O4'-C1'-N9	10.53	116.62	108.20
1	AA	1152	A	O4'-C1'-N9	10.53	116.62	108.20
26	BB	1694	C	O4'-C1'-N1	10.53	116.62	108.20
1	AA	1111	A	C8-N9-C4	-10.53	101.59	105.80
26	BB	2481	G	C5-C6-O6	-10.53	122.28	128.60
26	BB	2626	C	N1-C2-O2	10.53	125.22	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	AG	49	ASP	CB-CG-OD1	-10.52	108.83	118.30
26	BB	127	A	O4'-C4'-C3'	10.52	114.52	104.00
26	BB	1468	U	O4'-C1'-N1	10.52	116.62	108.20
26	BB	2694	G	N9-C4-C5	-10.52	101.19	105.40
26	BB	776	G	N9-C4-C5	10.52	109.61	105.40
26	BB	913	U	C6-N1-C2	-10.52	114.69	121.00
26	BB	1467	U	C4-C5-C6	10.52	126.01	119.70
26	BB	2234	G	O4'-C1'-N9	10.52	116.62	108.20
26	BB	2406	A	N9-C4-C5	-10.52	101.59	105.80
1	AA	113	G	C8-N9-C4	-10.52	102.19	106.40
26	BB	2468	A	C2-N3-C4	10.52	115.86	110.60
26	BB	2859	G	N7-C8-N9	10.52	118.36	113.10
1	AA	588	G	N7-C8-N9	10.52	118.36	113.10
26	BB	273	G	C8-N9-C4	-10.52	102.19	106.40
1	AA	850	U	C5-C4-O4	10.52	132.21	125.90
26	BB	254	G	C5-C6-O6	10.52	134.91	128.60
26	BB	1564	C	C3'-C2'-C1'	10.52	109.91	101.50
26	BB	2863	C	O4'-C1'-N1	10.52	116.61	108.20
26	BB	2046	G	C2-N3-C4	10.52	117.16	111.90
1	AA	626	G	C3'-C2'-C1'	10.51	109.91	101.50
26	BB	234	U	C5-C6-N1	-10.51	117.44	122.70
26	BB	1574	C	O4'-C1'-N1	10.51	116.61	108.20
26	BB	2607	G	C2-N3-C4	10.51	117.16	111.90
26	BB	316	C	C2-N3-C4	10.51	125.16	119.90
26	BB	323	C	N3-C2-O2	-10.51	114.54	121.90
26	BB	1738	G	N3-C4-C5	-10.51	123.35	128.60
26	BB	1168	G	N9-C4-C5	-10.51	101.20	105.40
1	AA	95	C	N3-C4-C5	-10.51	117.70	121.90
1	AA	121	U	C3'-C2'-C1'	10.51	109.91	101.50
26	BB	2292	U	O4'-C1'-N1	10.51	116.61	108.20
26	BB	437	U	O4'-C1'-N1	10.51	116.60	108.20
1	AA	1251	A	C8-N9-C4	-10.50	101.60	105.80
1	AA	971	G	C3'-C2'-C1'	-10.50	93.10	101.50
26	BB	218	A	O4'-C4'-C3'	10.50	114.50	104.00
26	BB	2221	G	C5-C6-O6	-10.50	122.30	128.60
1	AA	46	G	C5-C6-O6	-10.50	122.30	128.60
26	BB	1772	A	N1-C2-N3	-10.50	124.05	129.30
1	AA	735	C	C2-N3-C4	-10.50	114.65	119.90
1	AA	1269	A	N1-C6-N6	-10.50	112.30	118.60
26	BB	2032	G	C2-N3-C4	10.50	117.15	111.90
1	AA	235	C	O4'-C1'-N1	10.50	116.60	108.20
26	BB	663	G	O4'-C1'-N9	10.50	116.60	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	270	A	C6-N1-C2	10.49	124.90	118.60
1	AA	421	U	N3-C2-O2	-10.49	114.86	122.20
26	BB	455	C	N3-C4-C5	10.49	126.10	121.90
26	BB	791	C	N3-C4-C5	-10.49	117.70	121.90
26	BB	1491	G	C8-N9-C4	-10.49	102.20	106.40
26	BB	2003	A	C8-N9-C4	-10.49	101.60	105.80
26	BB	2730	C	C6-N1-C2	-10.49	116.10	120.30
26	BB	2133	G	C8-N9-C4	-10.49	102.20	106.40
26	BB	724	U	C4-C5-C6	10.49	125.99	119.70
26	BB	2136	G	C8-N9-C4	-10.49	102.20	106.40
26	BB	2509	G	C8-N9-C4	10.49	110.60	106.40
26	BB	2844	G	C8-N9-C4	-10.49	102.20	106.40
1	AA	770	C	N3-C4-C5	-10.49	117.70	121.90
26	BB	287	G	C8-N9-C4	-10.49	102.20	106.40
26	BB	518	G	O4'-C1'-N9	10.49	116.59	108.20
26	BB	1370	C	O4'-C1'-N1	10.49	116.59	108.20
32	BH	34	ARG	NE-CZ-NH2	-10.49	115.06	120.30
1	AA	27	G	N9-C4-C5	10.48	109.59	105.40
1	AA	142	G	C5-C6-N1	10.48	116.74	111.50
26	BB	875	G	N7-C8-N9	-10.48	107.86	113.10
1	AA	797	C	O4'-C1'-N1	10.48	116.59	108.20
1	AA	861	G	C5-N7-C8	-10.48	99.06	104.30
26	BB	1446	C	N3-C4-C5	-10.48	117.71	121.90
26	BB	2160	C	N3-C2-O2	-10.48	114.56	121.90
1	AA	339	C	N3-C4-C5	-10.48	117.71	121.90
26	BB	98	G	N9-C4-C5	10.48	109.59	105.40
26	BB	421	C	N1-C2-O2	10.48	125.19	118.90
26	BB	1122	G	O4'-C1'-N9	10.48	116.58	108.20
26	BB	1637	A	N7-C8-N9	10.48	119.04	113.80
26	BB	2264	C	C6-N1-C2	-10.48	116.11	120.30
26	BB	2699	C	C4-C5-C6	-10.48	112.16	117.40
1	AA	48	C	C6-N1-C2	-10.48	116.11	120.30
1	AA	467	U	N1-C2-N3	10.48	121.19	114.90
1	AA	794	A	C6-N1-C2	-10.48	112.31	118.60
26	BB	19	A	C5-C6-N6	10.48	132.08	123.70
1	AA	918	A	C8-N9-C4	10.48	109.99	105.80
1	AA	1336	C	N1-C2-O2	10.48	125.19	118.90
15	AO	85	ARG	NE-CZ-NH1	10.48	125.54	120.30
1	AA	1030	U	C4-C5-C6	10.47	125.98	119.70
1	AA	251	G	N9-C4-C5	10.47	109.59	105.40
1	AA	951	G	N9-C4-C5	10.47	109.59	105.40
26	BB	541	A	N9-C4-C5	10.47	109.99	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	701	G	C2-N3-C4	10.47	117.13	111.90
26	BB	2497	A	N1-C2-N3	-10.47	124.07	129.30
56	B5	3	ARG	NE-CZ-NH1	-10.47	115.07	120.30
21	AU	52	ARG	NE-CZ-NH1	10.46	125.53	120.30
26	BB	2584	U	O4'-C1'-N1	10.46	116.57	108.20
1	AA	370	C	O4'-C1'-N1	10.46	116.57	108.20
1	AA	696	A	N1-C2-N3	-10.46	124.07	129.30
26	BB	931	U	N3-C4-O4	10.46	126.72	119.40
1	AA	514	C	N3-C4-C5	10.46	126.08	121.90
26	BB	1895	C	C2-N3-C4	-10.46	114.67	119.90
26	BB	2097	A	C8-N9-C4	-10.46	101.61	105.80
26	BB	2806	C	O4'-C1'-N1	10.46	116.57	108.20
1	AA	246	A	N1-C2-N3	-10.46	124.07	129.30
26	BB	2404	U	O4'-C1'-N1	10.46	116.57	108.20
1	AA	1388	C	C2-N3-C4	-10.45	114.67	119.90
26	BB	1013	C	O4'-C1'-N1	10.46	116.56	108.20
26	BB	1062	G	N9-C4-C5	10.46	109.58	105.40
26	BB	776	G	O4'-C1'-N9	10.45	116.56	108.20
35	BK	68	PHE	CB-CG-CD1	10.45	128.12	120.80
26	BB	30	G	O4'-C1'-N9	10.45	116.56	108.20
26	BB	735	A	C8-N9-C4	10.45	109.98	105.80
4	AD	23	G	N3-C4-C5	-10.45	123.38	128.60
26	BB	610	C	O4'-C1'-N1	10.45	116.56	108.20
26	BB	752	A	C4-C5-C6	10.45	122.22	117.00
26	BB	1800	C	C6-N1-C2	10.44	124.48	120.30
26	BB	2831	G	C5-N7-C8	-10.44	99.08	104.30
26	BB	1885	A	N1-C2-N3	-10.44	124.08	129.30
26	BB	1998	A	O4'-C1'-N9	10.44	116.55	108.20
26	BB	74	A	C8-N9-C4	-10.44	101.62	105.80
26	BB	200	U	O4'-C1'-N1	10.44	116.55	108.20
26	BB	1169	A	N1-C2-N3	10.44	134.52	129.30
26	BB	2331	G	C6-C5-N7	-10.44	124.14	130.40
26	BB	2803	G	N7-C8-N9	-10.44	107.88	113.10
1	AA	1160	G	C4-C5-N7	10.44	114.97	110.80
26	BB	2175	C	N3-C4-C5	10.44	126.08	121.90
1	AA	1297	G	C4-C5-N7	-10.44	106.63	110.80
26	BB	500	G	C8-N9-C4	-10.44	102.23	106.40
26	BB	2370	G	N3-C4-C5	-10.44	123.38	128.60
1	AA	1347	G	C8-N9-C4	-10.43	102.23	106.40
3	AC	56	G	C2-N3-C4	-10.43	106.68	111.90
26	BB	289	G	C8-N9-C4	-10.43	102.23	106.40
26	BB	930	G	C8-N9-C4	-10.43	102.23	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1145	C	C5-C6-N1	10.43	126.22	121.00
41	BQ	36	TYR	CG-CD1-CE1	-10.43	112.95	121.30
1	AA	225	C	O4'-C1'-N1	10.43	116.54	108.20
1	AA	281	G	N9-C4-C5	10.43	109.57	105.40
26	BB	1009	A	C2-N3-C4	10.43	115.82	110.60
1	AA	512	U	C2-N3-C4	-10.43	120.74	127.00
26	BB	1237	A	O4'-C1'-N9	10.43	116.54	108.20
26	BB	2653	U	C3'-C2'-C1'	10.43	109.84	101.50
26	BB	1194	A	N9-C4-C5	10.43	109.97	105.80
53	B2	49	ARG	NE-CZ-NH2	-10.43	115.09	120.30
1	AA	335	C	N3-C4-N4	10.42	125.30	118.00
15	AO	94	TYR	CB-CG-CD1	-10.42	114.75	121.00
1	AA	711	G	N3-C2-N2	-10.42	112.60	119.90
26	BB	662	G	O4'-C1'-N9	10.42	116.54	108.20
26	BB	1137	G	N7-C8-N9	10.42	118.31	113.10
26	BB	1445	G	C5-N7-C8	10.42	109.51	104.30
1	AA	154	U	O4'-C1'-N1	10.42	116.54	108.20
1	AA	1424	U	N1-C2-O2	10.42	130.09	122.80
3	AC	17	U	C5-C6-N1	10.42	127.91	122.70
3	AC	31	U	C6-N1-C2	-10.42	114.75	121.00
26	BB	2287	A	O4'-C1'-N9	10.42	116.54	108.20
26	BB	1128	G	C4-C5-N7	-10.42	106.63	110.80
1	AA	680	C	N1-C2-O2	10.42	125.15	118.90
26	BB	377	G	C5-N7-C8	10.42	109.51	104.30
26	BB	1207	C	O4'-C1'-N1	10.42	116.53	108.20
26	BB	2237	G	N3-C4-C5	-10.42	123.39	128.60
1	AA	328	C	N1-C2-O2	10.41	125.15	118.90
1	AA	814	A	C4-C5-N7	-10.41	105.49	110.70
1	AA	557	G	N3-C4-C5	-10.41	123.39	128.60
26	BB	561	G	O5'-P-OP1	-10.41	96.33	105.70
26	BB	713	G	C3'-C2'-C1'	-10.41	93.17	101.50
26	BB	851	C	C6-N1-C2	-10.41	116.14	120.30
26	BB	1521	G	C3'-C2'-C1'	10.41	109.83	101.50
26	BB	2706	A	O4'-C1'-N9	10.41	116.53	108.20
1	AA	1512	U	C4-C5-C6	10.41	125.95	119.70
26	BB	154	U	O4'-C1'-N1	10.41	116.53	108.20
26	BB	789	A	N9-C4-C5	10.41	109.96	105.80
26	BB	2145	C	N3-C4-C5	-10.41	117.74	121.90
40	BP	103	ARG	NE-CZ-NH2	-10.41	115.09	120.30
26	BB	637	A	C4-C5-C6	-10.41	111.80	117.00
26	BB	160	A	C1'-O4'-C4'	-10.41	101.58	109.90
1	AA	230	G	C8-N9-C4	-10.40	102.24	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	78	A	O4'-C1'-N9	10.40	116.52	108.20
26	BB	310	A	C2-N3-C4	10.40	115.80	110.60
26	BB	1822	C	O4'-C1'-N1	10.40	116.52	108.20
1	AA	1456	A	C3'-C2'-C1'	-10.40	93.18	101.50
26	BB	474	G	N7-C8-N9	10.40	118.30	113.10
26	BB	1200	C	O4'-C1'-N1	10.40	116.52	108.20
26	BB	1921	G	C3'-C2'-C1'	-10.40	93.18	101.50
26	BB	1918	A	C8-N9-C4	-10.40	101.64	105.80
1	AA	35	G	C5-C6-O6	-10.39	122.36	128.60
1	AA	796	C	C5-C4-N4	-10.39	112.92	120.20
26	BB	809	G	C5-N7-C8	-10.39	99.10	104.30
26	BB	1677	A	C4-C5-N7	-10.39	105.50	110.70
26	BB	1724	G	O4'-C1'-N9	10.39	116.51	108.20
26	BB	2452	C	C5-C4-N4	10.39	127.48	120.20
26	BB	2709	G	C5'-C4'-O4'	10.39	121.57	109.10
35	BK	68	PHE	CB-CG-CD2	-10.39	113.53	120.80
1	AA	1401	G	C8-N9-C4	-10.39	102.24	106.40
26	BB	933	A	C5-C6-N6	10.39	132.01	123.70
26	BB	2719	G	C2-N3-C4	10.39	117.10	111.90
1	AA	895	G	N7-C8-N9	10.39	118.29	113.10
1	AA	1208	C	C6-N1-C2	10.39	124.45	120.30
1	AA	1240	U	C5-C6-N1	-10.39	117.51	122.70
1	AA	227	G	N9-C4-C5	10.39	109.56	105.40
1	AA	909	A	C4-C5-C6	-10.39	111.81	117.00
26	BB	1367	A	C8-N9-C4	-10.39	101.64	105.80
26	BB	1547	C	C4-C5-C6	10.39	122.59	117.40
26	BB	640	C	N3-C4-C5	10.38	126.05	121.90
26	BB	739	A	C8-N9-C4	-10.38	101.65	105.80
26	BB	2808	G	C2-N3-C4	10.39	117.09	111.90
26	BB	712	G	C4-C5-C6	10.38	125.03	118.80
26	BB	1145	C	O4'-C1'-N1	10.38	116.50	108.20
26	BB	2786	U	O4'-C1'-N1	10.38	116.50	108.20
1	AA	344	A	C8-N9-C4	-10.38	101.65	105.80
26	BB	1385	A	C4-C5-C6	10.38	122.19	117.00
1	AA	130	A	C2-N3-C4	10.38	115.79	110.60
26	BB	661	A	N9-C1'-C2'	-10.38	100.51	114.00
26	BB	1194	A	C4-C5-N7	-10.38	105.51	110.70
1	AA	177	G	N7-C8-N9	10.38	118.29	113.10
25	BA	104	A	C4-C5-N7	-10.38	105.51	110.70
26	BB	2556	C	C6-N1-C2	-10.38	116.15	120.30
40	BP	30	ARG	NE-CZ-NH1	10.38	125.49	120.30
1	AA	635	A	C5-C6-N1	10.37	122.89	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	BE	184	ARG	NE-CZ-NH1	10.37	125.49	120.30
1	AA	311	C	N1-C2-O2	10.37	125.12	118.90
1	AA	1158	C	N3-C4-C5	-10.37	117.75	121.90
26	BB	2470	G	N1-C2-N3	-10.37	117.68	123.90
26	BB	282	A	C4-C5-N7	-10.37	105.52	110.70
26	BB	676	A	C2-N3-C4	-10.37	105.42	110.60
26	BB	1973	G	N9-C4-C5	10.37	109.55	105.40
26	BB	2861	U	C5'-C4'-O4'	10.37	121.54	109.10
26	BB	1346	G	O4'-C1'-N9	10.37	116.49	108.20
2	AB	41	C	N3-C4-N4	10.37	125.25	118.00
26	BB	1257	C	O4'-C1'-N1	10.37	116.49	108.20
26	BB	1697	G	N3-C2-N2	10.37	127.16	119.90
1	AA	150	U	O4'-C1'-N1	10.36	116.49	108.20
1	AA	485	U	C5-C4-O4	-10.36	119.68	125.90
1	AA	110	C	N3-C4-C5	10.36	126.04	121.90
1	AA	603	U	C2-N3-C4	-10.36	120.78	127.00
3	AC	38	G	C4-C5-N7	-10.36	106.66	110.80
26	BB	1473	G	C8-N9-C4	-10.36	102.25	106.40
26	BB	2884	U	C5-C6-N1	-10.36	117.52	122.70
26	BB	1870	C	O4'-C4'-C3'	10.36	114.39	106.10
1	AA	633	G	N9-C4-C5	-10.36	101.26	105.40
1	AA	944	G	C5-N7-C8	10.36	109.48	104.30
1	AA	988	G	C4-C5-C6	10.36	125.02	118.80
26	BB	521	U	C2-N3-C4	-10.36	120.78	127.00
26	BB	1322	A	O4'-C1'-N9	10.36	116.49	108.20
26	BB	407	G	C4-C5-N7	-10.36	106.66	110.80
26	BB	1291	C	N3-C4-C5	-10.36	117.76	121.90
26	BB	2026	U	O4'-C1'-N1	10.36	116.48	108.20
38	BN	18	ARG	NE-CZ-NH2	-10.36	115.12	120.30
26	BB	1588	G	N3-C4-N9	10.35	132.21	126.00
26	BB	854	C	N3-C2-O2	-10.35	114.65	121.90
26	BB	1270	C	O4'-C4'-C3'	10.35	114.38	106.10
26	BB	2784	U	O4'-C1'-N1	10.35	116.48	108.20
26	BB	1109	C	C4-C5-C6	10.35	122.57	117.40
26	BB	2693	G	C8-N9-C4	-10.35	102.26	106.40
27	BC	60	ARG	NE-CZ-NH1	10.35	125.47	120.30
26	BB	425	G	N3-C4-N9	-10.35	119.79	126.00
26	BB	1763	G	C4-C5-N7	-10.35	106.66	110.80
1	AA	340	U	O4'-C1'-N1	10.35	116.48	108.20
1	AA	550	G	C3'-C2'-C1'	10.35	109.78	101.50
2	AB	40	C	O4'-C1'-N1	10.35	116.48	108.20
26	BB	2896	C	C5-C4-N4	-10.35	112.96	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	897	C	C2-N3-C4	10.34	125.07	119.90
1	AA	452	A	O4'-C1'-N9	10.34	116.47	108.20
1	AA	1225	A	N7-C8-N9	10.34	118.97	113.80
26	BB	511	U	C4'-C3'-C2'	-10.34	92.26	102.60
26	BB	2087	G	N3-C4-C5	-10.34	123.43	128.60
1	AA	419	C	C5-C4-N4	-10.34	112.96	120.20
1	AA	502	A	N9-C4-C5	10.34	109.94	105.80
4	AD	38	A	N1-C6-N6	10.34	124.80	118.60
26	BB	571	U	O4'-C4'-C3'	10.34	114.37	106.10
26	BB	1491	G	C5-N7-C8	10.34	109.47	104.30
26	BB	1568	G	N3-C4-C5	-10.34	123.43	128.60
26	BB	2121	G	C4-C5-C6	10.34	125.00	118.80
26	BB	2497	A	O4'-C1'-N9	10.34	116.47	108.20
1	AA	739	C	C5'-C4'-O4'	10.34	121.50	109.10
26	BB	604	G	C2-N3-C4	10.34	117.07	111.90
26	BB	2639	A	C5-N7-C8	10.34	109.07	103.90
1	AA	1238	A	N1-C6-N6	-10.33	112.40	118.60
26	BB	1552	A	C8-N9-C4	-10.33	101.67	105.80
1	AA	869	G	N3-C4-C5	-10.33	123.43	128.60
26	BB	1752	C	C5'-C4'-O4'	10.33	121.50	109.10
26	BB	2822	G	N7-C8-N9	10.33	118.27	113.10
4	AD	69	C	C5-C4-N4	-10.33	112.97	120.20
26	BB	1949	G	N3-C4-C5	-10.33	123.43	128.60
26	BB	1870	C	N1-C2-O2	10.33	125.10	118.90
26	BB	1996	C	O4'-C1'-N1	10.33	116.46	108.20
26	BB	1306	C	O4'-C1'-N1	10.33	116.46	108.20
26	BB	2793	C	N3-C4-C5	-10.33	117.77	121.90
1	AA	1014	A	C2-N3-C4	10.33	115.76	110.60
26	BB	466	A	C2-N3-C4	10.33	115.76	110.60
1	AA	27	G	C4-C5-N7	-10.32	106.67	110.80
1	AA	849	G	C8-N9-C4	-10.32	102.27	106.40
1	AA	956	U	C3'-C2'-C1'	10.32	109.76	101.50
1	AA	1426	G	N3-C4-C5	-10.32	123.44	128.60
26	BB	1738	G	N3-C2-N2	10.32	127.13	119.90
26	BB	146	A	C8-N9-C4	-10.32	101.67	105.80
4	AD	66	C	N1-C2-O2	10.32	125.09	118.90
1	AA	515	G	C5-C6-O6	-10.32	122.41	128.60
25	BA	19	C	C5-C6-N1	10.32	126.16	121.00
1	AA	916	U	O4'-C1'-N1	10.31	116.45	108.20
26	BB	161	A	N7-C8-N9	-10.31	108.64	113.80
26	BB	1455	G	C2-N3-C4	10.31	117.06	111.90
26	BB	1738	G	C4'-C3'-C2'	-10.31	92.29	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1778	U	C3'-C2'-C1'	10.31	109.75	101.50
26	BB	2668	G	C8-N9-C4	-10.31	102.27	106.40
26	BB	1793	C	N3-C4-N4	10.31	125.22	118.00
26	BB	2104	C	O4'-C1'-N1	10.31	116.45	108.20
26	BB	75	G	N3-C4-C5	-10.31	123.45	128.60
26	BB	312	G	C2-N3-C4	10.31	117.05	111.90
26	BB	1761	C	C2-N3-C4	10.31	125.05	119.90
1	AA	296	U	N1-C2-N3	10.30	121.08	114.90
1	AA	1047	G	C4-C5-C6	10.30	124.98	118.80
1	AA	1077	G	N3-C2-N2	-10.30	112.69	119.90
26	BB	2661	G	C5-C6-O6	-10.30	122.42	128.60
26	BB	2766	A	C5'-C4'-O4'	10.30	121.46	109.10
26	BB	2885	G	O4'-C1'-N9	10.30	116.44	108.20
26	BB	611	C	N3-C4-N4	10.30	125.21	118.00
1	AA	1002	G	N9-C4-C5	10.30	109.52	105.40
1	AA	207	C	N1-C2-O2	10.30	125.08	118.90
1	AA	1422	G	O4'-C1'-N9	10.30	116.44	108.20
26	BB	386	G	N3-C4-C5	-10.30	123.45	128.60
27	BC	122	ARG	NE-CZ-NH1	10.30	125.45	120.30
26	BB	1170	C	N3-C2-O2	-10.30	114.69	121.90
26	BB	1628	G	N7-C8-N9	10.30	118.25	113.10
26	BB	2196	C	N3-C4-N4	10.30	125.21	118.00
26	BB	2582	G	N3-C4-N9	10.29	132.18	126.00
1	AA	963	G	C5-C6-N1	10.29	116.65	111.50
26	BB	9	G	C5-C6-O6	-10.29	122.42	128.60
26	BB	185	G	C8-N9-C4	-10.29	102.28	106.40
1	AA	1322	C	N3-C4-N4	10.29	125.20	118.00
1	AA	1419	G	N3-C4-C5	-10.29	123.45	128.60
26	BB	646	U	C5-C4-O4	-10.29	119.72	125.90
1	AA	149	A	N3-C4-C5	-10.29	119.60	126.80
1	AA	1152	A	C1'-O4'-C4'	-10.29	101.67	109.90
26	BB	1516	G	C2-N3-C4	10.29	117.05	111.90
26	BB	1552	A	O4'-C1'-N9	10.29	116.43	108.20
26	BB	2889	C	N3-C4-C5	-10.29	117.78	121.90
1	AA	1174	G	N3-C4-C5	-10.29	123.46	128.60
1	AA	437	U	C5-C6-N1	-10.29	117.56	122.70
1	AA	602	A	N9-C1'-C2'	-10.29	100.63	114.00
26	BB	804	A	C1'-O4'-C4'	-10.29	101.67	109.90
1	AA	1187	G	O4'-C1'-N9	10.28	116.43	108.20
26	BB	2589	A	N1-C2-N3	-10.29	124.16	129.30
1	AA	39	G	C1'-O4'-C4'	-10.28	101.67	109.90
26	BB	532	A	N9-C4-C5	10.28	109.91	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2164	C	O4'-C1'-N1	10.28	116.43	108.20
26	BB	2286	G	C2-N3-C4	10.28	117.04	111.90
26	BB	2889	C	C5-C6-N1	10.28	126.14	121.00
1	AA	1282	C	C4-C5-C6	-10.28	112.26	117.40
26	BB	2495	G	N3-C4-C5	-10.28	123.46	128.60
1	AA	71	A	N1-C2-N3	-10.28	124.16	129.30
1	AA	404	G	O4'-C1'-N9	10.28	116.42	108.20
10	AJ	78	ARG	NE-CZ-NH1	10.28	125.44	120.30
26	BB	1361	G	O4'-C1'-N9	10.28	116.42	108.20
26	BB	1399	C	C2-N3-C4	10.28	125.04	119.90
26	BB	1765	U	C6-N1-C2	-10.28	114.83	121.00
28	BD	100	ARG	NE-CZ-NH2	-10.28	115.16	120.30
34	BJ	50	TYR	CB-CG-CD2	10.28	127.17	121.00
26	BB	253	C	N3-C2-O2	-10.27	114.71	121.90
26	BB	776	G	C4-C5-C6	10.27	124.96	118.80
26	BB	1074	G	C3'-C2'-C1'	-10.27	93.28	101.50
26	BB	2756	U	N1-C2-O2	10.27	129.99	122.80
26	BB	2425	A	C1'-O4'-C4'	-10.27	101.68	109.90
1	AA	293	G	N3-C4-C5	-10.27	123.47	128.60
1	AA	335	C	C2-N3-C4	10.27	125.03	119.90
26	BB	106	C	N1-C2-O2	10.27	125.06	118.90
1	AA	738	C	O4'-C1'-N1	10.27	116.41	108.20
1	AA	1014	A	N1-C2-N3	-10.27	124.17	129.30
4	AD	42	C	C6-N1-C2	10.27	124.41	120.30
26	BB	2773	C	N1-C2-O2	10.27	125.06	118.90
1	AA	1374	A	N1-C6-N6	-10.27	112.44	118.60
3	AC	30	U	C6-N1-C2	-10.27	114.84	121.00
26	BB	769	U	N1-C2-N3	10.27	121.06	114.90
26	BB	1710	G	C2-N3-C4	10.27	117.03	111.90
26	BB	465	G	N1-C6-O6	-10.26	113.74	119.90
26	BB	653	U	C2-N3-C4	-10.26	120.84	127.00
26	BB	1244	A	C5-N7-C8	-10.26	98.77	103.90
26	BB	1920	C	O4'-C1'-N1	10.26	116.41	108.20
26	BB	785	G	N3-C4-C5	-10.26	123.47	128.60
26	BB	2770	G	C5-N7-C8	-10.26	99.17	104.30
1	AA	328	C	C2-N3-C4	10.26	125.03	119.90
1	AA	401	C	C2-N3-C4	10.26	125.03	119.90
26	BB	1500	G	C8-N9-C4	-10.26	102.30	106.40
26	BB	1546	G	C8-N9-C4	-10.26	102.30	106.40
26	BB	1653	G	C5-C6-N1	10.26	116.63	111.50
26	BB	2012	G	N3-C2-N2	-10.26	112.72	119.90
26	BB	867	C	C2-N3-C4	-10.25	114.77	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2027	G	C4-C5-N7	-10.25	106.70	110.80
26	BB	2066	C	C4-C5-C6	10.25	122.53	117.40
26	BB	2338	C	O4'-C1'-N1	10.25	116.40	108.20
1	AA	995	C	O4'-C1'-N1	10.25	116.40	108.20
21	AU	47	ARG	NE-CZ-NH2	10.25	125.42	120.30
1	AA	330	C	C2-N3-C4	10.25	125.02	119.90
26	BB	1928	A	C2-N3-C4	10.25	115.72	110.60
1	AA	909	A	N1-C6-N6	-10.24	112.45	118.60
1	AA	301	G	N7-C8-N9	10.24	118.22	113.10
1	AA	626	G	N3-C4-C5	-10.24	123.48	128.60
25	BA	66	A	C2-N3-C4	-10.24	105.48	110.60
26	BB	878	A	N7-C8-N9	10.24	118.92	113.80
26	BB	118	A	C4-C5-C6	-10.24	111.88	117.00
1	AA	1420	U	O4'-C1'-N1	10.24	116.39	108.20
26	BB	776	G	N3-C4-C5	-10.24	123.48	128.60
1	AA	728	A	C8-N9-C4	-10.24	101.70	105.80
26	BB	282	A	C5-N7-C8	10.24	109.02	103.90
38	BN	132	ARG	NE-CZ-NH1	-10.24	115.18	120.30
1	AA	548	G	O4'-C1'-N9	10.24	116.39	108.20
1	AA	1477	U	O4'-C1'-N1	10.24	116.39	108.20
2	AB	5	G	C2-N3-C4	10.24	117.02	111.90
26	BB	1745	A	O4'-C1'-N9	10.24	116.39	108.20
1	AA	183	C	N1-C2-O2	10.23	125.04	118.90
26	BB	1455	G	N3-C4-C5	-10.23	123.48	128.60
42	BR	102	ARG	NE-CZ-NH2	-10.23	115.18	120.30
4	AD	65	G	N7-C8-N9	10.23	118.22	113.10
25	BA	117	G	N9-C4-C5	10.23	109.49	105.40
26	BB	380	G	C5-C6-N1	10.23	116.61	111.50
26	BB	1313	U	C5-C4-O4	10.23	132.04	125.90
26	BB	985	C	N3-C4-C5	10.23	125.99	121.90
26	BB	1444	G	C5-C6-O6	-10.23	122.46	128.60
26	BB	2762	C	N3-C4-C5	10.23	125.99	121.90
26	BB	1183	U	C5-C4-O4	-10.23	119.77	125.90
26	BB	1767	G	C4-C5-N7	-10.23	106.71	110.80
26	BB	2512	C	C4-C5-C6	10.23	122.51	117.40
26	BB	2644	G	C4-C5-N7	-10.22	106.71	110.80
26	BB	976	G	O4'-C4'-C3'	10.22	114.28	106.10
26	BB	725	G	N7-C8-N9	10.22	118.21	113.10
26	BB	1679	A	C4-C5-N7	-10.22	105.59	110.70
26	BB	1827	U	O4'-C1'-N1	10.22	116.38	108.20
1	AA	1472	U	O4'-C1'-N1	10.22	116.38	108.20
26	BB	1492	G	N1-C6-O6	10.22	126.03	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2752	C	C5-C6-N1	10.22	126.11	121.00
26	BB	2737	G	N3-C4-C5	-10.22	123.49	128.60
1	AA	1393	U	N3-C4-O4	10.21	126.55	119.40
26	BB	751	A	C2-N3-C4	10.21	115.71	110.60
26	BB	271	G	C8-N9-C4	-10.21	102.31	106.40
26	BB	2749	A	N7-C8-N9	10.21	118.91	113.80
1	AA	517	G	N3-C2-N2	10.21	127.05	119.90
1	AA	889	A	O4'-C1'-C2'	-10.21	95.59	105.80
26	BB	676	A	N1-C2-N3	10.21	134.41	129.30
26	BB	1082	U	C1'-O4'-C4'	-10.21	101.73	109.90
26	BB	796	C	N3-C4-N4	10.21	125.15	118.00
26	BB	969	G	N7-C8-N9	10.21	118.21	113.10
26	BB	1781	U	C4-C5-C6	10.21	125.83	119.70
1	AA	38	G	C2-N3-C4	10.21	117.00	111.90
1	AA	452	A	C4-C5-N7	10.21	115.80	110.70
1	AA	1203	C	N3-C4-N4	10.21	125.15	118.00
1	AA	802	A	C4-C5-N7	-10.21	105.60	110.70
1	AA	1499	A	C8-N9-C4	-10.21	101.72	105.80
26	BB	184	C	N3-C4-C5	-10.21	117.82	121.90
26	BB	629	G	N3-C4-C5	-10.21	123.50	128.60
26	BB	1659	G	N1-C6-O6	-10.21	113.78	119.90
26	BB	2051	A	C8-N9-C4	-10.21	101.72	105.80
26	BB	2125	G	N9-C4-C5	10.21	109.48	105.40
26	BB	2066	C	N3-C4-C5	-10.21	117.82	121.90
26	BB	2875	C	C4-C5-C6	10.21	122.50	117.40
1	AA	265	G	C2-N3-C4	10.21	117.00	111.90
1	AA	384	G	C5-N7-C8	-10.20	99.20	104.30
26	BB	1836	C	N3-C4-C5	-10.20	117.82	121.90
26	BB	2859	G	O4'-C1'-N9	10.21	116.36	108.20
26	BB	470	A	C2-N3-C4	10.20	115.70	110.60
13	AM	72	ARG	NE-CZ-NH1	10.20	125.40	120.30
26	BB	237	C	N1-C2-O2	10.20	125.02	118.90
26	BB	2224	G	C2-N3-C4	10.20	117.00	111.90
1	AA	324	G	C5-C6-O6	-10.20	122.48	128.60
2	AB	44	G	C5-C6-O6	-10.20	122.48	128.60
26	BB	988	A	N7-C8-N9	10.20	118.90	113.80
26	BB	2425	A	C8-N9-C4	-10.20	101.72	105.80
26	BB	2830	C	C6-N1-C2	-10.20	116.22	120.30
26	BB	1847	A	O4'-C1'-N9	10.20	116.36	108.20
26	BB	1980	G	C5-C6-N1	10.20	116.60	111.50
26	BB	1099	G	N3-C4-C5	-10.19	123.50	128.60
1	AA	356	A	N1-C6-N6	-10.19	112.48	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	69	C	C2-N3-C4	10.19	125.00	119.90
26	BB	719	C	O4'-C1'-N1	10.19	116.35	108.20
26	BB	2692	G	C5-C6-O6	-10.19	122.48	128.60
1	AA	217	C	N3-C2-O2	-10.19	114.77	121.90
1	AA	299	G	N3-C4-C5	-10.19	123.50	128.60
1	AA	526	C	O4'-C1'-N1	10.19	116.35	108.20
1	AA	814	A	C4-C5-C6	10.19	122.09	117.00
1	AA	862	C	N1-C2-O2	10.19	125.01	118.90
25	BA	54	G	C2-N3-C4	10.19	116.99	111.90
26	BB	738	G	C6-N1-C2	-10.19	118.99	125.10
26	BB	1210	G	P-O3'-C3'	10.19	131.93	119.70
26	BB	1698	A	C5-C6-N1	-10.19	112.61	117.70
26	BB	1134	A	N1-C2-N3	10.19	134.39	129.30
26	BB	2772	C	N3-C2-O2	-10.19	114.77	121.90
1	AA	436	C	C2-N3-C4	10.19	124.99	119.90
26	BB	527	C	C4-C5-C6	10.19	122.49	117.40
26	BB	717	C	N1-C2-O2	10.19	125.01	118.90
26	BB	1138	G	C5-C6-N1	10.19	116.59	111.50
26	BB	1176	U	C3'-C2'-C1'	10.19	109.65	101.50
26	BB	2393	U	O4'-C1'-N1	10.19	116.35	108.20
1	AA	765	G	N1-C6-O6	10.18	126.01	119.90
1	AA	988	G	C5-N7-C8	10.18	109.39	104.30
14	AN	10	ARG	NE-CZ-NH1	10.18	125.39	120.30
26	BB	1377	G	C5-C6-N1	10.18	116.59	111.50
26	BB	1516	G	N1-C2-N3	-10.18	117.79	123.90
26	BB	2298	A	C8-N9-C4	-10.18	101.73	105.80
26	BB	2475	C	C5-C6-N1	10.18	126.09	121.00
1	AA	674	G	O4'-C1'-N9	10.18	116.34	108.20
1	AA	709	U	C2-N3-C4	-10.18	120.89	127.00
1	AA	1243	C	N1-C2-O2	10.18	125.01	118.90
26	BB	321	U	C4-C5-C6	10.18	125.81	119.70
26	BB	531	C	N1-C2-O2	10.18	125.01	118.90
26	BB	2881	U	C2-N3-C4	-10.18	120.89	127.00
1	AA	923	A	N1-C6-N6	-10.18	112.49	118.60
26	BB	357	C	C5-C6-N1	10.18	126.09	121.00
26	BB	896	A	C8-N9-C4	-10.18	101.73	105.80
26	BB	1337	G	C2-N3-C4	10.18	116.99	111.90
26	BB	1434	A	C4-C5-N7	10.18	115.79	110.70
26	BB	2393	U	C2-N3-C4	-10.18	120.89	127.00
26	BB	2672	U	C4-C5-C6	10.18	125.81	119.70
56	B5	19	ARG	NE-CZ-NH2	10.18	125.39	120.30
1	AA	42	G	C5-C6-O6	10.18	134.71	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	601	G	O4'-C1'-N9	10.18	116.34	108.20
1	AA	1078	U	N1-C2-O2	10.18	129.92	122.80
1	AA	524	G	C8-N9-C4	-10.18	102.33	106.40
1	AA	624	C	N3-C4-C5	10.18	125.97	121.90
1	AA	1204	A	C4-C5-C6	-10.18	111.91	117.00
4	AD	41	C	O4'-C1'-N1	10.18	116.34	108.20
26	BB	984	A	C5-C6-N1	10.18	122.79	117.70
26	BB	1549	A	N1-C2-N3	-10.18	124.21	129.30
1	AA	539	A	C5-C6-N1	10.17	122.79	117.70
26	BB	2465	C	N3-C2-O2	-10.17	114.78	121.90
26	BB	2525	G	O4'-C1'-N9	10.17	116.34	108.20
26	BB	168	G	C5'-C4'-O4'	10.17	121.31	109.10
26	BB	557	C	C6-N1-C2	-10.17	116.23	120.30
26	BB	1500	G	C5-N7-C8	-10.17	99.21	104.30
1	AA	78	A	O4'-C1'-N9	10.17	116.34	108.20
1	AA	1049	U	C4-C5-C6	10.17	125.80	119.70
26	BB	1124	G	C5-C6-N1	10.17	116.58	111.50
1	AA	608	A	N1-C2-N3	-10.17	124.22	129.30
1	AA	1012	A	O4'-C1'-N9	10.17	116.33	108.20
26	BB	2657	A	N9-C4-C5	-10.17	101.73	105.80
26	BB	695	G	C8-N9-C4	-10.16	102.33	106.40
26	BB	922	C	C3'-C2'-C1'	10.16	109.63	101.50
26	BB	1287	A	C5'-C4'-O4'	10.16	121.30	109.10
26	BB	2271	G	C2-N3-C4	10.16	116.98	111.90
26	BB	2271	G	O4'-C1'-N9	10.16	116.33	108.20
1	AA	48	C	C4-C5-C6	-10.16	112.32	117.40
26	BB	1966	A	O4'-C1'-N9	10.16	116.33	108.20
26	BB	2481	G	N3-C4-C5	-10.16	123.52	128.60
26	BB	2621	G	C2-N3-C4	10.16	116.98	111.90
17	AQ	84	ARG	NE-CZ-NH1	10.16	125.38	120.30
1	AA	990	C	N3-C2-O2	-10.16	114.79	121.90
26	BB	574	A	C5-C6-N1	10.16	122.78	117.70
26	BB	2316	G	C4-C5-N7	-10.16	106.74	110.80
26	BB	2314	A	N3-C4-N9	10.16	135.53	127.40
26	BB	2452	C	N3-C2-O2	-10.16	114.79	121.90
1	AA	79	G	C2-N3-C4	10.16	116.98	111.90
26	BB	372	G	C5-C6-N1	10.16	116.58	111.50
26	BB	2046	G	N7-C8-N9	10.16	118.18	113.10
26	BB	2801	G	N9-C4-C5	10.16	109.46	105.40
25	BA	68	C	O4'-C1'-N1	10.15	116.32	108.20
26	BB	1004	U	O4'-C1'-N1	10.15	116.32	108.20
26	BB	2621	G	N9-C4-C5	10.15	109.46	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2482	A	C8-N9-C4	-10.15	101.74	105.80
26	BB	2803	G	O4'-C1'-N9	10.15	116.32	108.20
1	AA	499	A	N1-C6-N6	-10.15	112.51	118.60
26	BB	2819	G	O4'-C4'-C3'	10.15	114.22	106.10
1	AA	599	C	C2-N3-C4	-10.15	114.83	119.90
26	BB	469	G	C6-C5-N7	-10.15	124.31	130.40
1	AA	1046	A	O4'-C1'-N9	10.15	116.32	108.20
26	BB	1634	A	C3'-C2'-C1'	10.15	109.62	101.50
26	BB	1639	C	C3'-C2'-C1'	10.15	109.62	101.50
1	AA	1366	C	N3-C4-C5	-10.14	117.84	121.90
26	BB	2857	G	N1-C2-N3	10.14	129.99	123.90
1	AA	646	G	C5'-C4'-O4'	10.14	121.27	109.10
25	BA	61	G	C6-N1-C2	-10.14	119.02	125.10
26	BB	2753	A	C5-C6-N1	10.14	122.77	117.70
26	BB	1431	A	N7-C8-N9	10.14	118.87	113.80
26	BB	1879	C	C2-N3-C4	10.14	124.97	119.90
26	BB	2710	C	C5-C6-N1	10.14	126.07	121.00
1	AA	1416	G	C8-N9-C4	-10.14	102.34	106.40
1	AA	1512	U	N3-C2-O2	-10.14	115.10	122.20
26	BB	1696	G	O4'-C1'-N9	10.14	116.31	108.20
26	BB	2088	A	N9-C4-C5	10.14	109.86	105.80
26	BB	2303	G	N3-C4-C5	-10.14	123.53	128.60
1	AA	804	U	C5-C4-O4	-10.14	119.82	125.90
1	AA	947	G	C5-C6-O6	-10.14	122.52	128.60
1	AA	1134	G	N3-C4-N9	-10.14	119.92	126.00
4	AD	18	U	N3-C2-O2	-10.13	115.11	122.20
26	BB	2540	C	N3-C4-C5	-10.14	117.85	121.90
25	BA	38	C	N1-C1'-C2'	-10.13	100.83	114.00
26	BB	1119	U	O4'-C1'-N1	10.13	116.31	108.20
1	AA	588	G	C8-N9-C4	-10.13	102.35	106.40
26	BB	80	G	C5-C6-N1	10.13	116.57	111.50
26	BB	2614	A	C5-C6-N6	-10.13	115.59	123.70
25	BA	112	G	C5-C6-N1	10.13	116.56	111.50
26	BB	1106	G	C8-N9-C4	-10.13	102.35	106.40
26	BB	2265	U	C2-N3-C4	-10.13	120.92	127.00
26	BB	2428	G	C2-N3-C4	10.13	116.97	111.90
1	AA	1042	A	N9-C4-C5	10.13	109.85	105.80
26	BB	95	A	C8-N9-C4	-10.13	101.75	105.80
26	BB	938	G	C8-N9-C4	-10.13	102.35	106.40
1	AA	1224	U	N3-C4-O4	10.13	126.49	119.40
26	BB	458	G	C4-C5-N7	-10.13	106.75	110.80
26	BB	1319	C	C4-C5-C6	-10.13	112.34	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	608	A	O4'-C1'-N9	10.12	116.30	108.20
1	AA	630	A	C5-C6-N1	10.12	122.76	117.70
1	AA	925	G	C8-N9-C4	-10.12	102.35	106.40
3	AC	20	G	N3-C4-N9	10.12	132.07	126.00
1	AA	939	G	N9-C4-C5	10.12	109.45	105.40
1	AA	1099	G	C8-N9-C4	-10.12	102.35	106.40
1	AA	1319	A	O4'-C1'-N9	10.12	116.30	108.20
26	BB	952	G	N1-C2-N2	-10.12	107.09	116.20
26	BB	2094	A	O4'-C1'-N9	10.12	116.30	108.20
26	BB	2318	G	C8-N9-C4	-10.12	102.35	106.40
1	AA	259	G	C2-N3-C4	10.12	116.96	111.90
1	AA	452	A	N9-C4-C5	-10.12	101.75	105.80
25	BA	53	A	N1-C6-N6	-10.12	112.53	118.60
26	BB	1528	A	C8-N9-C4	-10.12	101.75	105.80
26	BB	1719	G	N9-C4-C5	10.12	109.45	105.40
26	BB	2672	U	N3-C4-O4	10.12	126.48	119.40
26	BB	365	U	C2-N3-C4	-10.12	120.93	127.00
26	BB	2799	A	C5-C6-N6	-10.12	115.61	123.70
26	BB	431	U	N1-C2-N3	10.12	120.97	114.90
26	BB	1954	G	C5-N7-C8	-10.11	99.24	104.30
26	BB	2467	C	O4'-C1'-N1	10.12	116.29	108.20
26	BB	2490	G	N7-C8-N9	10.11	118.16	113.10
1	AA	559	A	N9-C4-C5	10.11	109.84	105.80
1	AA	1377	A	C5-C6-N1	10.11	122.75	117.70
25	BA	7	G	C8-N9-C4	-10.11	102.36	106.40
25	BA	54	G	N3-C4-C5	-10.11	123.54	128.60
34	BJ	52	ARG	NE-CZ-NH1	10.11	125.36	120.30
4	AD	74	A	O4'-C1'-N9	10.11	116.29	108.20
26	BB	1032	A	C8-N9-C4	-10.11	101.76	105.80
26	BB	1791	A	C1'-O4'-C4'	-10.11	101.81	109.90
1	AA	469	C	C6-N1-C2	-10.11	116.26	120.30
26	BB	368	A	C8-N9-C4	-10.11	101.76	105.80
26	BB	701	G	N3-C4-C5	-10.11	123.55	128.60
1	AA	750	C	C6-N1-C2	-10.10	116.26	120.30
1	AA	257	G	C5-N7-C8	-10.10	99.25	104.30
26	BB	830	G	C8-N9-C4	-10.10	102.36	106.40
26	BB	1643	G	N9-C4-C5	-10.10	101.36	105.40
26	BB	2598	A	N1-C6-N6	10.10	124.66	118.60
26	BB	2668	G	C4-C5-C6	10.10	124.86	118.80
26	BB	2901	C	C5-C4-N4	10.10	127.27	120.20
1	AA	973	G	C8-N9-C4	-10.10	102.36	106.40
26	BB	1749	A	C6-N1-C2	10.10	124.66	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	240	G	P-O3'-C3'	10.10	131.81	119.70
1	AA	1083	U	C5-C6-N1	-10.10	117.65	122.70
26	BB	413	C	O4'-C1'-N1	10.10	116.28	108.20
26	BB	2720	U	O4'-C1'-N1	10.10	116.28	108.20
1	AA	1359	C	O4'-C1'-N1	10.10	116.28	108.20
26	BB	700	G	C8-N9-C4	-10.10	102.36	106.40
26	BB	1332	G	C8-N9-C4	-10.10	102.36	106.40
26	BB	2237	G	O4'-C1'-N9	10.10	116.28	108.20
1	AA	281	G	C4-C5-C6	10.09	124.86	118.80
1	AA	626	G	C2-N3-C4	10.09	116.95	111.90
26	BB	1214	A	N9-C4-C5	-10.09	101.76	105.80
1	AA	710	G	C8-N9-C4	-10.09	102.36	106.40
1	AA	785	G	N7-C8-N9	10.09	118.14	113.10
1	AA	791	G	N1-C6-O6	-10.09	113.85	119.90
26	BB	552	U	O4'-C1'-N1	10.09	116.27	108.20
26	BB	1793	C	C5-C4-N4	-10.09	113.14	120.20
26	BB	2769	U	C4-C5-C6	10.09	125.75	119.70
1	AA	1357	A	C5-N7-C8	10.09	108.94	103.90
26	BB	176	A	O4'-C1'-N9	10.09	116.27	108.20
26	BB	431	U	C2-N3-C4	-10.09	120.95	127.00
26	BB	1120	G	C8-N9-C4	-10.09	102.36	106.40
1	AA	719	C	C6-N1-C2	-10.09	116.27	120.30
1	AA	1177	G	O4'-C1'-N9	10.09	116.27	108.20
26	BB	323	C	C6-N1-C2	10.08	124.33	120.30
26	BB	2595	G	C5-C6-O6	10.08	134.65	128.60
1	AA	1359	C	N3-C4-N4	10.08	125.06	118.00
26	BB	537	G	C5-N7-C8	-10.08	99.26	104.30
1	AA	1191	A	N9-C4-C5	10.08	109.83	105.80
26	BB	1311	G	N7-C8-N9	10.08	118.14	113.10
1	AA	1517	G	C2-N3-C4	10.08	116.94	111.90
26	BB	862	G	C8-N9-C4	-10.08	102.37	106.40
26	BB	1081	U	N3-C2-O2	-10.08	115.15	122.20
26	BB	2373	G	N7-C8-N9	10.08	118.14	113.10
26	BB	375	G	C6-N1-C2	-10.07	119.06	125.10
30	BF	170	ARG	NE-CZ-NH1	-10.07	115.26	120.30
1	AA	1004	A	N1-C2-N3	10.07	134.34	129.30
1	AA	1175	G	O4'-C1'-N9	10.07	116.26	108.20
26	BB	2215	C	C5'-C4'-O4'	10.07	121.19	109.10
1	AA	5	U	O4'-C1'-N1	10.07	116.26	108.20
1	AA	114	U	O4'-C1'-N1	10.07	116.26	108.20
1	AA	644	U	C5-C6-N1	-10.07	117.67	122.70
26	BB	1056	G	O4'-C1'-N9	10.07	116.26	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	AH	137	ARG	NE-CZ-NH2	-10.07	115.27	120.30
26	BB	113	U	N3-C2-O2	-10.07	115.15	122.20
26	BB	817	C	C2-N3-C4	10.07	124.94	119.90
26	BB	958	U	N3-C4-C5	-10.07	108.56	114.60
26	BB	1567	G	C5'-C4'-O4'	10.07	121.18	109.10
26	BB	1744	A	N1-C2-N3	10.07	134.34	129.30
26	BB	1252	G	C6-N1-C2	-10.07	119.06	125.10
1	AA	551	U	N1-C2-N3	10.06	120.94	114.90
26	BB	495	G	C5-C6-N1	10.06	116.53	111.50
26	BB	1106	G	C5-N7-C8	-10.06	99.27	104.30
1	AA	712	A	C8-N9-C4	-10.06	101.78	105.80
26	BB	2223	G	N7-C8-N9	10.06	118.13	113.10
26	BB	2331	G	C5-N7-C8	-10.06	99.27	104.30
26	BB	913	U	O4'-C4'-C3'	10.06	114.15	106.10
26	BB	806	C	N1-C2-O2	10.06	124.94	118.90
26	BB	1628	G	C5-N7-C8	-10.06	99.27	104.30
26	BB	2494	G	N1-C6-O6	-10.06	113.86	119.90
30	BF	101	TYR	CB-CG-CD2	-10.06	114.96	121.00
26	BB	787	C	C6-N1-C2	-10.06	116.28	120.30
1	AA	439	U	C1'-O4'-C4'	-10.06	101.86	109.90
1	AA	1045	C	C2-N3-C4	10.06	124.93	119.90
3	AC	28	U	C5-C6-N1	-10.06	117.67	122.70
23	AW	23	ARG	NE-CZ-NH1	10.06	125.33	120.30
25	BA	78	A	N7-C8-N9	10.06	118.83	113.80
26	BB	305	C	C5-C6-N1	10.06	126.03	121.00
26	BB	1040	A	C4-C5-N7	10.06	115.73	110.70
26	BB	1750	G	C5-C6-O6	-10.06	122.56	128.60
26	BB	2762	C	C4-C5-C6	-10.06	112.37	117.40
26	BB	1666	G	O4'-C1'-N9	10.05	116.24	108.20
26	BB	2243	U	O4'-C1'-N1	10.05	116.24	108.20
26	BB	377	G	C6-C5-N7	10.05	136.43	130.40
26	BB	1990	C	C4-C5-C6	10.05	122.43	117.40
1	AA	211	G	N7-C8-N9	10.05	118.12	113.10
26	BB	470	A	N1-C6-N6	-10.05	112.57	118.60
1	AA	299	G	C8-N9-C4	-10.05	102.38	106.40
1	AA	499	A	N1-C2-N3	-10.05	124.28	129.30
26	BB	473	G	C5-C6-O6	-10.05	122.57	128.60
26	BB	1177	G	C6-N1-C2	-10.05	119.07	125.10
26	BB	1146	C	O4'-C1'-N1	10.04	116.24	108.20
26	BB	1759	A	O4'-C1'-N9	10.04	116.24	108.20
26	BB	1820	U	N3-C4-O4	10.04	126.43	119.40
26	BB	444	C	C2-N3-C4	10.04	124.92	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	681	A	C5-C6-N1	10.04	122.72	117.70
26	BB	296	U	C4-C5-C6	10.04	125.72	119.70
26	BB	172	A	C8-N9-C4	-10.04	101.78	105.80
1	AA	477	C	N3-C4-C5	10.04	125.91	121.90
26	BB	2134	A	C8-N9-C4	10.04	109.81	105.80
30	BF	170	ARG	NE-CZ-NH2	10.03	125.32	120.30
1	AA	347	G	C4'-C3'-C2'	-10.03	92.57	102.60
1	AA	424	G	C2-N3-C4	10.03	116.92	111.90
1	AA	630	A	C4-C5-C6	-10.03	111.98	117.00
26	BB	1331	G	C2-N3-C4	10.03	116.92	111.90
1	AA	336	A	C4-C5-N7	-10.03	105.68	110.70
26	BB	1375	U	O4'-C1'-N1	10.03	116.22	108.20
26	BB	2467	C	N3-C4-C5	-10.03	117.89	121.90
26	BB	1258	U	C2-N3-C4	-10.03	120.98	127.00
26	BB	2614	A	N1-C6-N6	10.03	124.62	118.60
26	BB	2707	U	O4'-C1'-N1	10.03	116.22	108.20
1	AA	728	A	N1-C2-N3	-10.03	124.29	129.30
1	AA	840	C	N3-C2-O2	-10.03	114.88	121.90
1	AA	1287	A	O4'-C1'-N9	10.03	116.22	108.20
26	BB	1675	C	O4'-C1'-N1	10.03	116.22	108.20
1	AA	165	G	N3-C4-C5	-10.02	123.59	128.60
11	AK	12	ARG	NE-CZ-NH2	-10.02	115.29	120.30
25	BA	100	G	N7-C8-N9	10.02	118.11	113.10
26	BB	1142	A	P-O3'-C3'	10.02	131.73	119.70
26	BB	2475	C	C2-N3-C4	10.02	124.91	119.90
34	BJ	50	TYR	CB-CG-CD1	-10.02	114.99	121.00
26	BB	1171	G	N9-C1'-C2'	-10.02	100.97	114.00
26	BB	2838	G	N7-C8-N9	10.02	118.11	113.10
26	BB	2373	G	O4'-C1'-N9	10.02	116.22	108.20
26	BB	104	A	C2-N3-C4	10.02	115.61	110.60
26	BB	1535	A	O4'-C1'-N9	10.02	116.21	108.20
43	BS	23	TYR	CB-CG-CD2	10.02	127.01	121.00
2	AB	15	A	N9-C4-C5	-10.01	101.80	105.80
3	AC	42	U	C5-C4-O4	-10.01	119.89	125.90
26	BB	1219	U	N3-C4-O4	10.01	126.41	119.40
26	BB	1223	G	N3-C4-C5	-10.01	123.59	128.60
26	BB	2176	A	C5-N7-C8	10.01	108.91	103.90
1	AA	475	C	N1-C2-O2	10.01	124.91	118.90
24	AX	65	ARG	NE-CZ-NH1	10.01	125.31	120.30
26	BB	347	A	N1-C2-N3	-10.01	124.30	129.30
1	AA	945	G	C5-C6-N1	10.01	116.50	111.50
26	BB	313	G	C5-N7-C8	-10.01	99.30	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	499	A	C2-N3-C4	10.01	115.60	110.60
1	AA	1108	G	C2-N3-C4	10.01	116.90	111.90
26	BB	2753	A	O4'-C1'-N9	10.01	116.21	108.20
1	AA	183	C	N3-C4-N4	-10.01	111.00	118.00
26	BB	872	U	C5-C4-O4	-10.01	119.90	125.90
26	BB	1530	G	N3-C4-N9	10.01	132.00	126.00
2	AB	28	C	O4'-C1'-N1	10.00	116.20	108.20
26	BB	2729	G	N3-C4-C5	-10.00	123.60	128.60
26	BB	2567	G	N7-C8-N9	10.00	118.10	113.10
1	AA	1050	G	C8-N9-C4	-10.00	102.40	106.40
25	BA	114	C	O4'-C1'-N1	10.00	116.20	108.20
26	BB	998	C	N3-C4-N4	10.00	125.00	118.00
26	BB	2193	G	C4-C5-N7	-10.00	106.80	110.80
26	BB	1912	A	C2-N3-C4	10.00	115.60	110.60
1	AA	347	G	C5-C6-N1	9.99	116.50	111.50
1	AA	928	G	C2-N3-C4	9.99	116.90	111.90
9	AI	91	ARG	NE-CZ-NH1	9.99	125.30	120.30
1	AA	739	C	O4'-C1'-N1	9.99	116.19	108.20
1	AA	720	C	N3-C2-O2	-9.99	114.91	121.90
2	AB	12	U	N3-C2-O2	-9.99	115.21	122.20
26	BB	2274	A	C8-N9-C4	-9.99	101.80	105.80
1	AA	350	G	C2-N3-C4	9.99	116.89	111.90
1	AA	1109	C	C3'-C2'-C1'	-9.99	93.51	101.50
26	BB	1831	G	N3-C4-C5	-9.99	123.61	128.60
26	BB	1846	G	C2-N3-C4	9.99	116.89	111.90
26	BB	76	C	N3-C4-C5	9.98	125.89	121.90
26	BB	1797	G	N3-C4-C5	-9.98	123.61	128.60
26	BB	1797	G	N9-C4-C5	9.98	109.39	105.40
26	BB	2600	A	N9-C4-C5	9.98	109.79	105.80
1	AA	165	G	C2-N3-C4	9.98	116.89	111.90
26	BB	262	A	N1-C2-N3	-9.98	124.31	129.30
26	BB	287	G	C4-C5-N7	-9.98	106.81	110.80
26	BB	2294	G	O4'-C1'-N9	9.98	116.18	108.20
26	BB	2250	G	C8-N9-C4	-9.98	102.41	106.40
1	AA	545	C	O4'-C1'-N1	9.97	116.18	108.20
1	AA	754	C	C6-N1-C2	9.97	124.29	120.30
1	AA	348	G	N1-C6-O6	-9.97	113.92	119.90
1	AA	1005	A	N9-C1'-C2'	-9.97	101.03	112.00
2	AB	73	G	C8-N9-C4	-9.97	102.41	106.40
25	BA	3	C	N3-C4-N4	9.97	124.98	118.00
26	BB	487	C	C6-N1-C2	9.97	124.29	120.30
26	BB	2247	A	O4'-C1'-N9	9.97	116.18	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	270	A	C5-C6-N1	-9.97	112.71	117.70
1	AA	1066	C	C6-N1-C2	-9.97	116.31	120.30
2	AB	35	C	C3'-C2'-C1'	9.97	109.48	101.50
25	BA	56	G	C8-N9-C4	-9.97	102.41	106.40
26	BB	2336	A	O4'-C1'-N9	9.97	116.18	108.20
41	BQ	7	ARG	NE-CZ-NH1	-9.97	115.31	120.30
1	AA	148	G	C8-N9-C4	-9.97	102.41	106.40
3	AC	23	C	N3-C4-C5	9.97	125.89	121.90
26	BB	480	A	C5-N7-C8	9.97	108.88	103.90
26	BB	2201	G	C2-N3-C4	9.97	116.88	111.90
1	AA	933	G	C3'-C2'-C1'	9.97	109.47	101.50
26	BB	33	C	C4-C5-C6	9.96	122.38	117.40
26	BB	1695	G	N9-C4-C5	9.96	109.39	105.40
34	BJ	52	ARG	NE-CZ-NH2	-9.96	115.32	120.30
1	AA	596	A	C4-C5-N7	9.96	115.68	110.70
25	BA	18	G	N3-C4-C5	-9.96	123.62	128.60
26	BB	1461	C	C4-C5-C6	-9.96	112.42	117.40
26	BB	2521	C	N3-C4-C5	9.96	125.89	121.90
26	BB	1242	U	O4'-C1'-N1	9.96	116.17	108.20
26	BB	1957	C	O4'-C1'-N1	9.96	116.17	108.20
26	BB	2576	G	C8-N9-C4	-9.96	102.42	106.40
1	AA	656	G	C6-N1-C2	-9.96	119.12	125.10
1	AA	973	G	P-O3'-C3'	9.96	131.65	119.70
26	BB	22	C	C4-C5-C6	-9.96	112.42	117.40
26	BB	867	C	N3-C4-C5	9.96	125.88	121.90
26	BB	1936	A	N9-C4-C5	9.96	109.78	105.80
26	BB	2682	A	C4-C5-N7	-9.96	105.72	110.70
26	BB	2871	U	C5-C6-N1	-9.96	117.72	122.70
26	BB	455	C	O4'-C1'-N1	-9.96	100.23	108.20
26	BB	1008	A	C8-N9-C4	-9.96	101.82	105.80
1	AA	1122	U	C5-C6-N1	-9.95	117.72	122.70
26	BB	1048	A	C5-N7-C8	9.96	108.88	103.90
26	BB	1101	U	N3-C2-O2	-9.95	115.23	122.20
1	AA	637	C	C4-C5-C6	9.95	122.38	117.40
1	AA	1262	C	C5-C6-N1	9.95	125.98	121.00
26	BB	849	A	N9-C4-C5	-9.95	101.82	105.80
26	BB	1216	G	N3-C2-N2	-9.95	112.93	119.90
26	BB	2176	A	C4-C5-C6	-9.95	112.02	117.00
26	BB	2046	G	N1-C2-N3	-9.95	117.93	123.90
1	AA	1174	G	C2-N3-C4	9.95	116.88	111.90
4	AD	68	C	N3-C4-C5	-9.95	117.92	121.90
26	BB	228	C	C5-C6-N1	9.95	125.97	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	712	G	C4-C5-N7	-9.95	106.82	110.80
1	AA	1222	G	C5-C6-N1	9.95	116.47	111.50
1	AA	305	G	N9-C4-C5	-9.95	101.42	105.40
1	AA	413	G	N3-C4-N9	-9.95	120.03	126.00
1	AA	530	G	N3-C4-C5	-9.95	123.63	128.60
1	AA	832	G	O4'-C1'-N9	9.95	116.16	108.20
26	BB	395	U	O4'-C1'-N1	9.95	116.16	108.20
1	AA	1408	A	C1'-O4'-C4'	-9.95	101.94	109.90
26	BB	104	A	N3-C4-N9	9.95	135.36	127.40
26	BB	2802	G	N9-C4-C5	9.95	109.38	105.40
26	BB	112	U	O4'-C1'-N1	9.94	116.16	108.20
26	BB	1598	A	N1-C2-N3	-9.94	124.33	129.30
26	BB	1733	G	N3-C2-N2	-9.94	112.94	119.90
1	AA	82	G	C5-C6-N1	9.94	116.47	111.50
26	BB	1995	U	N3-C2-O2	-9.94	115.24	122.20
26	BB	2082	A	O4'-C1'-N9	9.94	116.15	108.20
25	BA	26	C	O4'-C1'-N1	9.94	116.15	108.20
1	AA	654	G	N9-C4-C5	9.94	109.38	105.40
1	AA	825	A	O4'-C1'-N9	9.94	116.15	108.20
4	AD	65	G	C8-N9-C4	-9.94	102.42	106.40
26	BB	2549	G	C6-N1-C2	-9.94	119.14	125.10
1	AA	814	A	C1'-O4'-C4'	-9.94	101.95	109.90
1	AA	103	U	C5-C4-O4	-9.93	119.94	125.90
1	AA	160	A	N1-C2-N3	-9.93	124.33	129.30
1	AA	575	G	N3-C4-C5	-9.93	123.63	128.60
1	AA	990	C	C2-N3-C4	9.93	124.87	119.90
1	AA	1131	G	N3-C4-N9	9.93	131.96	126.00
1	AA	1162	C	C5-C4-N4	-9.93	113.25	120.20
1	AA	1372	U	O4'-C1'-N1	9.93	116.15	108.20
26	BB	922	C	O4'-C1'-N1	9.93	116.14	108.20
26	BB	2713	U	O4'-C1'-N1	9.93	116.15	108.20
1	AA	1228	C	C5-C6-N1	9.93	125.97	121.00
26	BB	2507	C	O4'-C1'-N1	9.93	116.14	108.20
26	BB	580	U	N3-C4-O4	9.93	126.35	119.40
26	BB	862	G	N9-C4-C5	9.93	109.37	105.40
56	B5	35	ARG	NE-CZ-NH2	-9.93	115.33	120.30
26	BB	543	G	N3-C4-C5	-9.93	123.64	128.60
26	BB	1896	G	N1-C2-N3	-9.93	117.94	123.90
26	BB	66	C	C4-C5-C6	-9.92	112.44	117.40
26	BB	146	A	O4'-C1'-N9	9.92	116.14	108.20
26	BB	159	G	C2-N3-C4	9.92	116.86	111.90
1	AA	577	G	N1-C2-N2	9.92	125.13	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	643	C	N3-C4-C5	9.92	125.87	121.90
25	BA	96	G	C6-N1-C2	-9.92	119.15	125.10
26	BB	32	C	N1-C2-O2	9.92	124.85	118.90
26	BB	157	C	N3-C4-C5	9.92	125.87	121.90
26	BB	2213	U	N3-C2-O2	-9.92	115.26	122.20
26	BB	2544	G	N1-C6-O6	-9.92	113.95	119.90
1	AA	377	G	C6-N1-C2	-9.92	119.15	125.10
1	AA	938	A	N9-C1'-C2'	-9.92	101.09	112.00
25	BA	61	G	C1'-O4'-C4'	9.92	117.83	109.90
26	BB	549	G	O4'-C1'-N9	9.92	116.14	108.20
26	BB	1949	G	C2-N3-C4	9.92	116.86	111.90
1	AA	998	C	N3-C2-O2	-9.92	114.96	121.90
26	BB	25	U	O4'-C1'-N1	9.92	116.13	108.20
1	AA	21	G	N3-C4-C5	-9.91	123.64	128.60
1	AA	348	G	N9-C4-C5	9.91	109.37	105.40
26	BB	1171	G	O4'-C1'-N9	9.91	116.13	108.20
1	AA	194	C	C6-N1-C2	-9.91	116.33	120.30
1	AA	442	G	N3-C4-C5	-9.91	123.64	128.60
1	AA	963	G	C2-N3-C4	9.91	116.86	111.90
1	AA	1405	G	N7-C8-N9	9.91	118.06	113.10
26	BB	949	G	C5-C6-O6	9.91	134.55	128.60
26	BB	1232	G	N7-C8-N9	9.91	118.06	113.10
26	BB	1590	A	C5-N7-C8	-9.91	98.94	103.90
26	BB	2185	U	O4'-C1'-N1	9.91	116.13	108.20
26	BB	2512	C	O4'-C1'-N1	9.91	116.13	108.20
1	AA	258	G	N1-C6-O6	9.91	125.85	119.90
26	BB	1089	A	C5'-C4'-O4'	9.91	120.99	109.10
26	BB	1929	G	N1-C2-N3	-9.91	117.95	123.90
26	BB	2161	C	C2-N3-C4	9.91	124.86	119.90
1	AA	54	C	C5-C4-N4	-9.91	113.27	120.20
1	AA	781	A	C5'-C4'-O4'	9.91	120.99	109.10
1	AA	1294	G	C5-N7-C8	-9.91	99.35	104.30
1	AA	1503	A	N7-C8-N9	9.91	118.75	113.80
26	BB	886	A	N7-C8-N9	9.91	118.75	113.80
26	BB	2334	U	N3-C2-O2	-9.91	115.27	122.20
1	AA	1376	U	O4'-C1'-N1	9.90	116.12	108.20
1	AA	254	G	N9-C4-C5	9.90	109.36	105.40
3	AC	57	C	N1-C2-O2	9.90	124.84	118.90
5	AE	224	ARG	NE-CZ-NH1	9.90	125.25	120.30
26	BB	673	C	N1-C2-O2	9.90	124.84	118.90
26	BB	780	G	N3-C2-N2	9.90	126.83	119.90
1	AA	551	U	C5-C4-O4	9.90	131.84	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	613	A	C8-N9-C4	-9.90	101.84	105.80
26	BB	1006	C	N3-C4-C5	-9.90	117.94	121.90
26	BB	496	G	N7-C8-N9	9.90	118.05	113.10
1	AA	6	G	C1'-O4'-C4'	-9.90	101.98	109.90
26	BB	704	G	C8-N9-C4	-9.90	102.44	106.40
26	BB	2583	G	C5-N7-C8	-9.90	99.35	104.30
1	AA	810	C	O4'-C1'-N1	9.90	116.12	108.20
26	BB	2400	G	C6-C5-N7	-9.90	124.46	130.40
1	AA	299	G	N7-C8-N9	9.89	118.05	113.10
3	AC	44	U	O4'-C1'-N1	9.89	116.11	108.20
4	AD	72	C	C6-N1-C2	-9.89	116.34	120.30
26	BB	585	G	C5-C6-O6	-9.89	122.66	128.60
26	BB	707	G	O4'-C1'-N9	9.89	116.12	108.20
26	BB	2859	G	C8-N9-C4	-9.89	102.44	106.40
26	BB	801	G	C4-C5-N7	-9.89	106.84	110.80
26	BB	1876	A	C5-N7-C8	9.89	108.84	103.90
1	AA	538	G	N1-C6-O6	-9.89	113.97	119.90
25	BA	118	C	C5-C6-N1	-9.89	116.06	121.00
26	BB	1943	U	O4'-C1'-N1	9.89	116.11	108.20
26	BB	2685	G	C8-N9-C4	-9.89	102.44	106.40
26	BB	421	C	O4'-C1'-N1	9.88	116.11	108.20
26	BB	2599	G	C4-C5-N7	-9.89	106.85	110.80
26	BB	491	G	C2-N3-C4	9.88	116.84	111.90
26	BB	1423	G	C2-N3-C4	9.88	116.84	111.90
26	BB	2128	G	C5-N7-C8	-9.88	99.36	104.30
1	AA	284	C	O4'-C1'-N1	9.88	116.10	108.20
26	BB	1907	G	C3'-C2'-C1'	9.88	109.40	101.50
1	AA	1268	G	N1-C2-N3	-9.88	117.97	123.90
26	BB	494	G	N3-C2-N2	-9.88	112.98	119.90
26	BB	2019	A	N1-C6-N6	9.88	124.53	118.60
26	BB	2250	G	C4-C5-C6	9.88	124.73	118.80
27	BC	183	ASP	CB-CG-OD1	9.88	127.19	118.30
26	BB	1279	G	N3-C4-C5	-9.88	123.66	128.60
26	BB	1957	C	N1-C2-O2	9.88	124.83	118.90
1	AA	268	U	O4'-C1'-N1	9.87	116.10	108.20
4	AD	16	C	O4'-C4'-C3'	9.87	114.00	106.10
26	BB	643	A	C4-C5-C6	-9.88	112.06	117.00
26	BB	2103	C	N3-C2-O2	-9.87	114.99	121.90
1	AA	225	C	N3-C4-N4	9.87	124.91	118.00
26	BB	151	C	O4'-C1'-N1	9.87	116.10	108.20
1	AA	774	G	C4-C5-N7	9.87	114.75	110.80
26	BB	2275	C	C5-C4-N4	-9.87	113.29	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2644	G	N3-C2-N2	-9.87	112.99	119.90
26	BB	2808	G	C8-N9-C4	-9.87	102.45	106.40
1	AA	1276	G	C2-N3-C4	9.87	116.83	111.90
1	AA	1379	G	C4-C5-C6	9.87	124.72	118.80
1	AA	1389	C	N1-C2-O2	9.87	124.82	118.90
26	BB	2037	A	C2-N3-C4	9.87	115.53	110.60
26	BB	2109	U	N1-C2-O2	9.87	129.71	122.80
26	BB	305	C	N3-C4-C5	-9.87	117.95	121.90
26	BB	2828	G	N7-C8-N9	-9.87	108.17	113.10
1	AA	215	C	N3-C4-C5	-9.87	117.95	121.90
1	AA	286	C	O4'-C1'-N1	9.86	116.09	108.20
1	AA	1433	A	O4'-C1'-N9	9.87	116.09	108.20
26	BB	1190	G	C5-N7-C8	-9.87	99.37	104.30
26	BB	2556	C	O4'-C1'-N1	9.86	116.09	108.20
26	BB	2834	G	C2-N3-C4	9.86	116.83	111.90
26	BB	562	U	C2-N3-C4	-9.86	121.08	127.00
26	BB	611	C	N1-C2-O2	9.86	124.82	118.90
26	BB	1180	U	C2-N3-C4	-9.86	121.08	127.00
26	BB	1216	G	C6-N1-C2	-9.86	119.18	125.10
26	BB	2742	G	O4'-C1'-N9	9.86	116.09	108.20
26	BB	2808	G	C5-N7-C8	-9.86	99.37	104.30
1	AA	125	U	C5-C4-O4	-9.86	119.98	125.90
1	AA	918	A	N7-C8-N9	-9.86	108.87	113.80
26	BB	6	A	C5-N7-C8	9.86	108.83	103.90
1	AA	778	G	C4-C5-N7	9.86	114.74	110.80
1	AA	1039	G	N7-C8-N9	9.86	118.03	113.10
51	B0	47	ARG	NE-CZ-NH1	-9.86	115.37	120.30
1	AA	940	C	C6-N1-C2	9.86	124.24	120.30
26	BB	1926	U	O4'-C1'-N1	9.86	116.08	108.20
26	BB	2319	G	C5-C6-N1	9.86	116.43	111.50
1	AA	162	A	C5-N7-C8	9.85	108.83	103.90
26	BB	2112	G	C1'-O4'-C4'	-9.85	102.02	109.90
1	AA	32	A	N7-C8-N9	-9.85	108.88	113.80
1	AA	558	G	C5'-C4'-O4'	9.85	120.92	109.10
26	BB	2	G	N3-C4-C5	-9.85	123.67	128.60
26	BB	34	U	C5-C6-N1	-9.85	117.78	122.70
26	BB	237	C	O4'-C1'-N1	9.85	116.08	108.20
26	BB	2583	G	O4'-C4'-C3'	9.85	113.98	106.10
26	BB	2615	U	O4'-C1'-N1	9.85	116.08	108.20
1	AA	1441	A	C8-N9-C4	-9.85	101.86	105.80
26	BB	1213	A	C5'-C4'-O4'	9.85	120.92	109.10
26	BB	1587	G	N7-C8-N9	9.85	118.02	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	AR	88	ARG	NE-CZ-NH1	9.85	125.22	120.30
26	BB	188	G	C4-C5-N7	-9.85	106.86	110.80
26	BB	508	A	C2-N3-C4	9.84	115.52	110.60
1	AA	59	A	C2-N3-C4	9.84	115.52	110.60
1	AA	1016	A	C2-N3-C4	9.84	115.52	110.60
26	BB	1988	G	N3-C4-C5	-9.84	123.68	128.60
26	BB	2712	C	C6-N1-C2	-9.84	116.36	120.30
28	BD	202	ARG	NE-CZ-NH2	-9.84	115.38	120.30
1	AA	848	C	N1-C1'-C2'	-9.84	101.18	112.00
25	BA	28	C	C5-C6-N1	9.84	125.92	121.00
26	BB	104	A	N9-C4-C5	-9.84	101.86	105.80
26	BB	760	G	C6-C5-N7	-9.84	124.50	130.40
26	BB	1028	A	C4-C5-C6	-9.84	112.08	117.00
26	BB	2447	G	O4'-C1'-N9	9.84	116.07	108.20
1	AA	283	U	C5-C4-O4	9.84	131.80	125.90
26	BB	870	U	C5'-C4'-O4'	9.84	120.90	109.10
26	BB	1402	U	O4'-C1'-N1	9.84	116.07	108.20
26	BB	2392	A	C8-N9-C4	-9.84	101.87	105.80
1	AA	801	U	C5-C6-N1	-9.83	117.78	122.70
1	AA	987	G	C6-C5-N7	9.83	136.30	130.40
26	BB	1721	G	N9-C4-C5	9.83	109.33	105.40
1	AA	40	C	C1'-O4'-C4'	-9.83	102.03	109.90
1	AA	357	G	C8-N9-C4	-9.83	102.47	106.40
26	BB	1055	G	N1-C6-O6	-9.83	114.00	119.90
26	BB	2025	C	N3-C4-N4	9.83	124.88	118.00
1	AA	63	C	C6-N1-C2	-9.83	116.37	120.30
1	AA	1325	C	N1-C1'-C2'	-9.83	101.19	112.00
1	AA	14	U	N1-C2-O2	9.82	129.68	122.80
1	AA	167	A	C5-N7-C8	-9.82	98.99	103.90
1	AA	1006	G	N9-C4-C5	9.82	109.33	105.40
26	BB	981	A	O4'-C1'-N9	9.82	116.06	108.20
1	AA	858	G	O4'-C1'-N9	9.82	116.06	108.20
1	AA	1409	C	N1-C2-O2	9.82	124.79	118.90
26	BB	258	G	C4-C5-N7	-9.82	106.87	110.80
26	BB	2289	G	C2-N3-C4	9.82	116.81	111.90
26	BB	2314	A	C5-C6-N6	-9.82	115.84	123.70
26	BB	2435	A	C8-N9-C4	-9.82	101.87	105.80
31	BG	173	ASP	CB-CG-OD1	-9.82	109.46	118.30
26	BB	2393	U	C5-C4-O4	-9.82	120.01	125.90
26	BB	2423	U	C4-C5-C6	9.82	125.59	119.70
26	BB	2813	A	C8-N9-C4	-9.82	101.87	105.80
53	B2	9	TYR	CB-CG-CD1	-9.82	115.11	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	531	U	C5-C6-N1	-9.82	117.79	122.70
26	BB	295	G	C5-C6-N1	9.82	116.41	111.50
26	BB	732	C	O4'-C1'-N1	9.82	116.06	108.20
37	BM	70	ARG	NE-CZ-NH2	-9.82	115.39	120.30
4	AD	31	G	N9-C4-C5	9.82	109.33	105.40
26	BB	444	C	C5-C6-N1	9.82	125.91	121.00
26	BB	1907	G	N9-C4-C5	9.81	109.33	105.40
1	AA	323	U	N3-C4-O4	9.81	126.27	119.40
1	AA	766	A	C8-N9-C4	9.81	109.72	105.80
3	AC	59	A	C8-N9-C4	-9.81	101.88	105.80
1	AA	85	U	C2-N3-C4	-9.81	121.11	127.00
1	AA	1423	G	N3-C4-N9	9.81	131.88	126.00
26	BB	244	A	C8-N9-C4	9.81	109.72	105.80
26	BB	1332	G	O4'-C1'-N9	9.81	116.05	108.20
26	BB	269	C	C6-N1-C2	-9.81	116.38	120.30
26	BB	1478	G	O4'-C1'-N9	9.81	116.05	108.20
26	BB	2490	G	O4'-C1'-N9	-9.81	100.35	108.20
1	AA	902	G	N1-C6-O6	9.81	125.78	119.90
1	AA	942	G	C6-N1-C2	-9.80	119.22	125.10
26	BB	1537	G	C5-C6-N1	9.81	116.40	111.50
1	AA	46	G	N1-C6-O6	9.80	125.78	119.90
46	BV	3	ARG	NE-CZ-NH1	9.80	125.20	120.30
1	AA	119	A	C4-C5-N7	-9.80	105.80	110.70
1	AA	1137	C	N1-C2-O2	9.80	124.78	118.90
1	AA	1177	G	C2-N3-C4	9.80	116.80	111.90
1	AA	1057	G	C8-N9-C4	-9.80	102.48	106.40
1	AA	1501	C	N3-C4-N4	9.80	124.86	118.00
26	BB	910	A	N7-C8-N9	9.80	118.70	113.80
26	BB	2279	G	N3-C2-N2	-9.80	113.04	119.90
1	AA	21	G	N7-C8-N9	9.80	118.00	113.10
1	AA	1312	G	C4-C5-C6	9.80	124.68	118.80
3	AC	17	U	C6-N1-C2	-9.80	115.12	121.00
26	BB	672	C	N3-C4-N4	9.80	124.86	118.00
26	BB	1055	G	C6-N1-C2	-9.80	119.22	125.10
1	AA	1176	A	C8-N9-C4	-9.79	101.88	105.80
25	BA	28	C	C4-C5-C6	-9.80	112.50	117.40
26	BB	965	C	N3-C4-C5	9.80	125.82	121.90
1	AA	1215	G	C2-N3-C4	9.79	116.80	111.90
1	AA	1225	A	N9-C4-C5	9.79	109.72	105.80
26	BB	362	A	C5-C6-N6	-9.79	115.86	123.70
26	BB	1043	C	N1-C2-O2	9.79	124.78	118.90
26	BB	1361	G	N1-C2-N2	9.79	125.02	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	901	C	N3-C2-O2	-9.79	115.05	121.90
26	BB	725	G	C8-N9-C4	-9.79	102.48	106.40
26	BB	1744	A	C2-N3-C4	-9.79	105.70	110.60
26	BB	2597	G	N9-C4-C5	9.79	109.32	105.40
26	BB	2816	G	O4'-C1'-N9	9.79	116.03	108.20
10	AJ	95	ARG	NE-CZ-NH1	-9.79	115.41	120.30
1	AA	545	C	N3-C4-N4	9.79	124.85	118.00
4	AD	23	G	O4'-C1'-N9	9.79	116.03	108.20
26	BB	732	C	C3'-C2'-C1'	9.79	109.33	101.50
26	BB	1085	A	N1-C2-N3	-9.79	124.41	129.30
26	BB	1829	A	C8-N9-C4	9.79	109.72	105.80
26	BB	2497	A	C2-N3-C4	9.79	115.49	110.60
26	BB	700	G	N3-C4-C5	-9.79	123.71	128.60
1	AA	487	A	C3'-C2'-C1'	9.78	109.33	101.50
25	BA	47	C	N3-C4-N4	9.79	124.85	118.00
26	BB	271	G	O4'-C1'-N9	9.79	116.03	108.20
26	BB	2496	C	C6-N1-C2	9.79	124.21	120.30
26	BB	1399	C	N3-C4-N4	9.78	124.85	118.00
1	AA	632	U	N1-C2-N3	-9.78	109.03	114.90
1	AA	934	C	P-O3'-C3'	9.78	131.44	119.70
26	BB	92	U	O4'-C1'-N1	9.78	116.03	108.20
26	BB	1738	G	O4'-C4'-C3'	9.78	113.93	106.10
26	BB	2429	G	N3-C4-C5	-9.78	123.71	128.60
1	AA	230	G	N9-C4-C5	9.78	109.31	105.40
1	AA	501	C	N3-C4-C5	9.78	125.81	121.90
1	AA	1432	G	C2-N3-C4	9.78	116.79	111.90
26	BB	786	C	C6-N1-C2	9.78	124.21	120.30
26	BB	1505	A	C5-C6-N1	9.78	122.59	117.70
26	BB	1676	A	N1-C2-N3	-9.78	124.41	129.30
1	AA	1068	G	N9-C4-C5	9.78	109.31	105.40
26	BB	622	G	C6-C5-N7	-9.78	124.53	130.40
26	BB	2745	C	N3-C2-O2	-9.78	115.06	121.90
26	BB	713	G	C5-N7-C8	-9.77	99.42	104.30
26	BB	1900	A	N7-C8-N9	9.77	118.69	113.80
1	AA	53	A	O4'-C1'-N9	9.77	116.02	108.20
1	AA	514	C	C5-C6-N1	9.77	125.89	121.00
26	BB	1143	A	P-O3'-C3'	9.77	131.42	119.70
1	AA	779	C	N3-C4-N4	9.77	124.84	118.00
25	BA	47	C	O4'-C1'-N1	9.77	116.02	108.20
26	BB	627	A	N1-C2-N3	-9.77	124.42	129.30
1	AA	382	A	O4'-C1'-N9	9.77	116.01	108.20
1	AA	642	A	O4'-C1'-N9	-9.77	100.39	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1226	C	N3-C4-C5	-9.77	117.99	121.90
1	AA	1309	G	C5-C6-O6	-9.77	122.74	128.60
26	BB	2316	G	C2-N3-C4	9.77	116.78	111.90
26	BB	2614	A	C5-N7-C8	-9.77	99.02	103.90
1	AA	552	U	O4'-C1'-N1	9.76	116.01	108.20
1	AA	959	A	N9-C4-C5	9.76	109.71	105.80
26	BB	246	C	C3'-C2'-C1'	9.76	109.31	101.50
26	BB	2628	C	N1-C2-O2	9.76	124.76	118.90
3	AC	22	G	C8-N9-C4	9.76	110.31	106.40
26	BB	1502	A	C8-N9-C4	-9.76	101.89	105.80
1	AA	57	G	N3-C2-N2	-9.76	113.07	119.90
1	AA	126	G	C8-N9-C4	-9.76	102.50	106.40
25	BA	118	C	C4-C5-C6	9.76	122.28	117.40
1	AA	1263	C	N3-C4-C5	-9.76	118.00	121.90
1	AA	1344	C	N3-C4-C5	-9.76	118.00	121.90
26	BB	682	G	C6-N1-C2	-9.76	119.24	125.10
26	BB	1994	C	O4'-C1'-N1	9.76	116.01	108.20
1	AA	865	A	C5-C6-N1	9.76	122.58	117.70
1	AA	1117	A	N7-C8-N9	9.76	118.68	113.80
26	BB	189	G	C4-C5-N7	-9.76	106.90	110.80
1	AA	1342	C	N3-C4-C5	9.76	125.80	121.90
4	AD	52	C	O4'-C1'-N1	9.76	116.00	108.20
26	BB	1757	A	O4'-C1'-N9	9.76	116.00	108.20
1	AA	1246	A	O4'-C1'-N9	9.75	116.00	108.20
25	BA	118	C	C3'-C2'-C1'	-9.75	93.70	101.50
1	AA	1272	G	C5-C6-O6	-9.75	122.75	128.60
4	AD	37	U	O4'-C1'-N1	9.75	116.00	108.20
26	BB	939	G	C3'-C2'-C1'	-9.75	93.70	101.50
26	BB	1324	G	C8-N9-C4	-9.75	102.50	106.40
26	BB	1562	U	O4'-C1'-N1	9.75	116.00	108.20
26	BB	871	U	O4'-C1'-N1	9.75	116.00	108.20
26	BB	2020	A	C4-C5-C6	9.75	121.87	117.00
1	AA	380	G	C2-N3-C4	9.75	116.77	111.90
1	AA	752	G	N1-C6-O6	-9.75	114.05	119.90
11	AK	85	TYR	CB-CG-CD1	-9.75	115.15	121.00
26	BB	1707	G	C1'-O4'-C4'	9.75	117.70	109.90
40	BP	2	ARG	NE-CZ-NH2	-9.75	115.43	120.30
1	AA	68	G	C5-C6-N1	9.74	116.37	111.50
1	AA	695	A	C4-C5-N7	-9.74	105.83	110.70
26	BB	60	G	N1-C2-N3	-9.74	118.05	123.90
26	BB	1646	C	N3-C2-O2	-9.74	115.08	121.90
1	AA	881	G	C2-N3-C4	9.74	116.77	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1218	C	C6-N1-C2	-9.74	116.40	120.30
26	BB	694	U	C5-C6-N1	-9.74	117.83	122.70
26	BB	2257	U	C3'-C2'-C1'	-9.74	93.70	101.50
1	AA	529	G	C4-C5-C6	9.74	124.64	118.80
26	BB	2599	G	O4'-C1'-N9	9.74	115.99	108.20
1	AA	1377	A	C5'-C4'-O4'	9.74	120.79	109.10
1	AA	1523	G	C5-C6-O6	-9.74	122.76	128.60
26	BB	10	A	C6-C5-N7	9.74	139.12	132.30
1	AA	1022	A	C8-N9-C4	-9.74	101.91	105.80
26	BB	1353	A	N7-C8-N9	-9.74	108.93	113.80
1	AA	535	A	N1-C6-N6	9.73	124.44	118.60
1	AA	617	G	N3-C4-C5	-9.73	123.73	128.60
1	AA	874	G	N3-C4-N9	9.73	131.84	126.00
26	BB	1016	G	N9-C4-C5	9.73	109.29	105.40
26	BB	1817	G	C5-C6-O6	-9.73	122.76	128.60
26	BB	2763	G	C5-N7-C8	-9.73	99.43	104.30
14	AN	8	ARG	NE-CZ-NH2	-9.73	115.43	120.30
1	AA	794	A	C2-N3-C4	-9.73	105.73	110.60
4	AD	46	G	C5-N7-C8	-9.73	99.44	104.30
42	BR	61	ARG	NE-CZ-NH2	9.73	125.17	120.30
1	AA	835	U	C6-N1-C2	9.73	126.84	121.00
1	AA	1325	C	C4'-C3'-C2'	-9.73	92.87	102.60
26	BB	2467	C	C2-N3-C4	9.73	124.76	119.90
56	B5	21	ARG	NE-CZ-NH2	9.73	125.16	120.30
1	AA	90	C	C6-N1-C2	9.73	124.19	120.30
1	AA	529	G	N3-C4-C5	-9.73	123.74	128.60
1	AA	1328	C	C6-N1-C2	9.73	124.19	120.30
26	BB	646	U	N3-C4-O4	9.73	126.21	119.40
26	BB	761	A	O4'-C1'-N9	9.73	115.98	108.20
26	BB	1719	G	C8-N9-C4	-9.73	102.51	106.40
26	BB	2423	U	N3-C4-C5	-9.73	108.76	114.60
26	BB	2849	U	O4'-C1'-N1	9.73	115.98	108.20
26	BB	1045	C	N3-C2-O2	-9.72	115.09	121.90
26	BB	2029	G	N3-C4-N9	9.72	131.83	126.00
1	AA	232	G	N1-C6-O6	-9.72	114.07	119.90
1	AA	892	A	O4'-C1'-N9	9.72	115.98	108.20
1	AA	1108	G	O4'-C1'-N9	9.72	115.98	108.20
1	AA	1370	G	N3-C2-N2	9.72	126.70	119.90
26	BB	1371	G	C5-C6-O6	-9.72	122.77	128.60
26	BB	2418	A	C2-N3-C4	9.72	115.46	110.60
26	BB	362	A	N1-C2-N3	-9.72	124.44	129.30
1	AA	402	G	C6-C5-N7	-9.72	124.57	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	43	G	C6-C5-N7	-9.72	124.57	130.40
26	BB	669	G	N1-C2-N2	9.72	124.95	116.20
26	BB	1590	A	N1-C2-N3	-9.72	124.44	129.30
1	AA	1034	G	C5-C6-N1	9.71	116.36	111.50
26	BB	2208	C	C5-C4-N4	-9.71	113.40	120.20
26	BB	2752	C	O4'-C1'-N1	9.71	115.97	108.20
26	BB	488	G	C2-N3-C4	9.71	116.76	111.90
26	BB	756	A	C8-N9-C4	-9.71	101.92	105.80
26	BB	1242	U	N3-C4-O4	9.71	126.20	119.40
26	BB	2757	A	C4'-C3'-C2'	-9.71	92.89	102.60
1	AA	1301	U	O4'-C1'-N1	9.71	115.97	108.20
26	BB	997	G	N3-C4-C5	-9.71	123.75	128.60
26	BB	1123	C	C2-N3-C4	9.71	124.75	119.90
26	BB	1583	A	O4'-C1'-N9	9.71	115.97	108.20
1	AA	1013	G	N1-C2-N2	9.71	124.94	116.20
26	BB	1658	C	C5-C6-N1	9.71	125.85	121.00
1	AA	1084	G	N9-C4-C5	9.70	109.28	105.40
26	BB	368	A	N9-C4-C5	9.70	109.68	105.80
26	BB	1989	G	C5-C6-O6	9.71	134.42	128.60
26	BB	2227	A	N1-C2-N3	-9.71	124.45	129.30
26	BB	1873	G	C8-N9-C4	-9.70	102.52	106.40
26	BB	2034	U	N1-C2-O2	9.70	129.59	122.80
26	BB	2246	G	C6-C5-N7	-9.70	124.58	130.40
1	AA	292	G	C2-N3-C4	9.70	116.75	111.90
1	AA	753	A	C2-N3-C4	9.70	115.45	110.60
26	BB	1168	G	C4-C5-N7	9.70	114.68	110.80
1	AA	990	C	O4'-C1'-N1	9.70	115.96	108.20
26	BB	60	G	C5-C6-O6	-9.70	122.78	128.60
1	AA	1461	G	C2-N3-C4	-9.70	107.05	111.90
26	BB	10	A	C4-C5-C6	-9.70	112.15	117.00
26	BB	978	G	C6-N1-C2	-9.70	119.28	125.10
1	AA	10	A	C6-N1-C2	9.70	124.42	118.60
1	AA	631	C	C5'-C4'-O4'	9.70	120.73	109.10
26	BB	124	G	C8-N9-C4	-9.70	102.52	106.40
26	BB	1818	U	C5-C6-N1	9.70	127.55	122.70
26	BB	897	C	C2-N3-C4	-9.69	115.05	119.90
26	BB	1162	G	C5-N7-C8	-9.69	99.45	104.30
3	AC	36	U	O4'-C1'-N1	9.69	115.95	108.20
26	BB	980	A	C3'-C2'-C1'	9.69	109.25	101.50
26	BB	1120	G	C5-N7-C8	-9.69	99.45	104.30
1	AA	103	U	C3'-C2'-C1'	-9.69	93.75	101.50
1	AA	291	U	N3-C4-O4	9.69	126.18	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	399	G	C5-N7-C8	9.69	109.14	104.30
26	BB	1138	G	C4'-C3'-C2'	-9.69	92.91	102.60
1	AA	1011	C	C4-C5-C6	-9.69	112.56	117.40
1	AA	1068	G	C5-N7-C8	9.69	109.14	104.30
1	AA	1383	C	C5-C6-N1	9.69	125.84	121.00
14	AN	12	ARG	NE-CZ-NH2	-9.69	115.45	120.30
26	BB	829	A	O4'-C1'-N9	9.69	115.95	108.20
26	BB	1055	G	C8-N9-C4	-9.69	102.53	106.40
1	AA	533	A	C2-N3-C4	9.69	115.44	110.60
26	BB	1426	G	N7-C8-N9	9.69	117.94	113.10
26	BB	1846	G	N3-C4-N9	9.69	131.81	126.00
1	AA	83	C	C5-C6-N1	-9.68	116.16	121.00
1	AA	388	G	O4'-C1'-C2'	-9.68	96.12	105.80
1	AA	521	G	C4-C5-C6	9.68	124.61	118.80
1	AA	870	U	N3-C4-C5	-9.68	108.79	114.60
1	AA	1218	C	O4'-C1'-N1	9.68	115.95	108.20
1	AA	1383	C	O4'-C1'-N1	9.68	115.95	108.20
1	AA	1508	A	C8-N9-C4	-9.68	101.93	105.80
26	BB	552	U	C6-N1-C2	-9.68	115.19	121.00
26	BB	638	G	C5-C6-O6	-9.68	122.79	128.60
1	AA	765	G	N3-C4-N9	9.68	131.81	126.00
1	AA	1532	U	C5-C6-N1	-9.68	117.86	122.70
26	BB	1998	A	C6-N1-C2	-9.68	112.79	118.60
1	AA	40	C	O4'-C1'-N1	9.68	115.94	108.20
1	AA	348	G	C6-N1-C2	-9.68	119.29	125.10
26	BB	642	U	O4'-C1'-N1	9.68	115.94	108.20
26	BB	2568	U	N3-C4-O4	9.68	126.17	119.40
1	AA	336	A	N9-C4-C5	9.67	109.67	105.80
1	AA	1213	A	P-O3'-C3'	9.67	131.31	119.70
26	BB	2353	G	N1-C2-N3	-9.67	118.09	123.90
1	AA	310	G	C8-N9-C4	-9.67	102.53	106.40
1	AA	953	G	C8-N9-C4	-9.67	102.53	106.40
26	BB	60	G	C1'-O4'-C4'	-9.67	102.16	109.90
26	BB	1863	G	O4'-C1'-N9	9.67	115.94	108.20
29	BE	141	ARG	NE-CZ-NH2	-9.67	115.47	120.30
26	BB	1568	G	N9-C4-C5	9.67	109.27	105.40
26	BB	1748	C	C4-C5-C6	9.67	122.23	117.40
1	AA	357	G	C2-N3-C4	9.66	116.73	111.90
1	AA	383	A	C2-N3-C4	9.66	115.43	110.60
26	BB	735	A	N7-C8-N9	-9.66	108.97	113.80
26	BB	1922	G	N3-C4-C5	-9.66	123.77	128.60
1	AA	819	A	O4'-C1'-N9	9.66	115.93	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	662	G	N9-C1'-C2'	-9.66	101.37	112.00
26	BB	2712	C	N1-C2-O2	9.66	124.70	118.90
1	AA	1449	C	C5-C6-N1	9.66	125.83	121.00
1	AA	217	C	N1-C2-O2	9.66	124.69	118.90
26	BB	342	A	C5'-C4'-O4'	9.66	120.69	109.10
26	BB	1546	G	O4'-C1'-N9	9.66	115.93	108.20
1	AA	1134	G	N9-C4-C5	9.66	109.26	105.40
26	BB	41	C	N3-C4-N4	-9.66	111.24	118.00
26	BB	316	C	C5-C4-N4	9.66	126.96	120.20
26	BB	511	U	N3-C2-O2	-9.66	115.44	122.20
26	BB	734	A	N1-C6-N6	-9.66	112.81	118.60
26	BB	1206	G	C4-C5-N7	-9.66	106.94	110.80
1	AA	65	A	C8-N9-C4	-9.65	101.94	105.80
26	BB	1011	G	C6-N1-C2	-9.65	119.31	125.10
26	BB	1705	A	N7-C8-N9	-9.65	108.97	113.80
26	BB	2176	A	N7-C8-N9	-9.65	108.97	113.80
26	BB	2676	C	C3'-C2'-C1'	-9.65	93.78	101.50
26	BB	872	U	N3-C4-O4	9.65	126.16	119.40
1	AA	477	C	C4-C5-C6	-9.65	112.58	117.40
25	BA	39	A	C2-N3-C4	-9.65	105.78	110.60
26	BB	590	A	C5-C6-N1	9.65	122.52	117.70
1	AA	724	G	C8-N9-C4	-9.65	102.54	106.40
1	AA	1017	U	O4'-C1'-N1	9.65	115.92	108.20
6	AF	64	ARG	NE-CZ-NH1	9.65	125.12	120.30
26	BB	2054	A	C4-C5-N7	9.65	115.52	110.70
1	AA	1147	C	C5-C6-N1	-9.64	116.18	121.00
26	BB	631	A	C4-C5-C6	-9.64	112.18	117.00
26	BB	2458	G	N7-C8-N9	9.64	117.92	113.10
1	AA	313	A	C5-C6-N6	-9.64	115.99	123.70
1	AA	1338	G	C5'-C4'-O4'	9.64	120.67	109.10
26	BB	1319	C	C5-C6-N1	9.64	125.82	121.00
1	AA	364	A	N1-C2-N3	-9.64	124.48	129.30
1	AA	1426	G	C4-C5-C6	9.64	124.58	118.80
1	AA	1496	C	O4'-C1'-N1	9.64	115.91	108.20
26	BB	1456	G	C4-C5-N7	-9.64	106.94	110.80
1	AA	270	A	N9-C1'-C2'	-9.64	101.40	112.00
26	BB	214	G	C5-C6-O6	-9.64	122.82	128.60
26	BB	985	C	C4-C5-C6	-9.64	112.58	117.40
26	BB	1356	G	C2-N3-C4	9.64	116.72	111.90
26	BB	808	G	N1-C2-N3	9.64	129.68	123.90
26	BB	2059	A	N1-C2-N3	-9.64	124.48	129.30
26	BB	2223	G	N1-C2-N3	-9.64	118.12	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2385	C	N3-C4-C5	-9.64	118.05	121.90
26	BB	2313	C	N3-C4-C5	-9.64	118.05	121.90
1	AA	224	U	N1-C2-N3	9.63	120.68	114.90
1	AA	1193	G	N9-C4-C5	9.63	109.25	105.40
6	AF	10	ARG	NE-CZ-NH2	9.63	125.12	120.30
26	BB	761	A	C5-C6-N1	9.63	122.52	117.70
4	AD	75	C	N3-C4-C5	-9.63	118.05	121.90
26	BB	729	G	N9-C4-C5	9.63	109.25	105.40
26	BB	2053	G	C4-C5-N7	-9.63	106.95	110.80
21	AU	6	ARG	NE-CZ-NH1	9.63	125.11	120.30
26	BB	1579	A	C5-C6-N1	9.63	122.52	117.70
1	AA	833	G	C5-C6-N1	9.63	116.31	111.50
1	AA	209	U	N3-C2-O2	-9.63	115.46	122.20
1	AA	1214	C	O4'-C1'-N1	-9.63	100.50	108.20
3	AC	25	U	O4'-C1'-N1	9.63	115.90	108.20
26	BB	438	G	C8-N9-C4	-9.63	102.55	106.40
4	AD	76	C	N3-C4-C5	-9.63	118.05	121.90
26	BB	226	A	N1-C2-N3	9.63	134.11	129.30
25	BA	90	C	N1-C1'-C2'	-9.62	101.41	112.00
26	BB	303	G	C4-C5-C6	9.62	124.58	118.80
26	BB	1893	C	O4'-C1'-N1	9.63	115.90	108.20
26	BB	40	U	C5-C6-N1	-9.62	117.89	122.70
26	BB	2543	G	C3'-C2'-C1'	9.62	109.20	101.50
26	BB	1830	C	C4'-C3'-C2'	-9.62	92.98	102.60
26	BB	2104	C	C4-C5-C6	9.62	122.21	117.40
1	AA	1148	U	C2-N3-C4	-9.62	121.23	127.00
26	BB	197	A	O4'-C1'-N9	9.62	115.90	108.20
1	AA	449	G	C4-C5-N7	-9.62	106.95	110.80
26	BB	2237	G	N1-C6-O6	-9.61	114.13	119.90
7	AG	55	ARG	NE-CZ-NH2	-9.61	115.49	120.30
26	BB	358	U	O4'-C1'-N1	9.61	115.89	108.20
26	BB	1291	C	C6-N1-C2	-9.61	116.45	120.30
26	BB	1385	A	N7-C8-N9	9.61	118.61	113.80
26	BB	1516	G	O4'-C1'-N9	9.61	115.89	108.20
26	BB	2452	C	C3'-C2'-C1'	9.61	109.19	101.50
26	BB	2701	U	C5-C4-O4	-9.61	120.13	125.90
1	AA	1327	C	O4'-C1'-N1	9.61	115.89	108.20
26	BB	96	C	O4'-C1'-N1	9.61	115.89	108.20
26	BB	738	G	N3-C4-C5	-9.61	123.80	128.60
26	BB	2178	C	O4'-C1'-N1	9.61	115.89	108.20
26	BB	2289	G	C6-N1-C2	-9.61	119.33	125.10
1	AA	238	A	N3-C4-C5	-9.61	120.08	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	493	A	C1'-O4'-C4'	-9.61	102.22	109.90
1	AA	740	U	C5'-C4'-O4'	9.61	120.63	109.10
1	AA	1460	C	C5-C6-N1	9.61	125.80	121.00
26	BB	725	G	C4'-C3'-C2'	-9.61	93.00	102.60
26	BB	1768	C	N1-C2-O2	9.61	124.66	118.90
26	BB	2142	A	N1-C2-N3	-9.61	124.50	129.30
1	AA	156	C	N3-C4-C5	9.60	125.74	121.90
1	AA	201	G	C5-C6-O6	-9.60	122.84	128.60
1	AA	1415	G	N1-C6-O6	-9.60	114.14	119.90
26	BB	950	G	N7-C8-N9	9.60	117.90	113.10
26	BB	1053	C	C5-C6-N1	9.60	125.80	121.00
1	AA	890	G	N9-C4-C5	9.60	109.24	105.40
1	AA	578	C	N1-C2-O2	9.60	124.66	118.90
26	BB	46	G	O4'-C1'-N9	9.60	115.88	108.20
1	AA	119	A	N9-C4-C5	9.60	109.64	105.80
1	AA	1198	G	C3'-C2'-C1'	9.60	109.18	101.50
1	AA	1223	C	O4'-C1'-N1	9.60	115.88	108.20
26	BB	311	A	C3'-C2'-C1'	9.60	109.18	101.50
26	BB	1188	U	O4'-C1'-N1	9.60	115.88	108.20
26	BB	1320	C	C5'-C4'-O4'	9.60	120.62	109.10
26	BB	592	A	N1-C2-N3	-9.60	124.50	129.30
26	BB	1804	C	C5-C6-N1	-9.60	116.20	121.00
26	BB	2342	C	N1-C2-O2	9.60	124.66	118.90
1	AA	1166	G	C5-C6-O6	9.59	134.36	128.60
26	BB	1543	G	N9-C4-C5	9.59	109.24	105.40
26	BB	2475	C	O4'-C1'-N1	9.59	115.88	108.20
1	AA	528	C	C5-C6-N1	9.59	125.80	121.00
26	BB	150	U	C5-C6-N1	-9.59	117.90	122.70
26	BB	637	A	C6-C5-N7	9.59	139.01	132.30
26	BB	2621	G	N3-C4-C5	-9.59	123.80	128.60
1	AA	397	A	N1-C2-N3	-9.59	124.50	129.30
26	BB	2667	C	N3-C2-O2	-9.59	115.19	121.90
1	AA	741	G	N1-C6-O6	9.59	125.65	119.90
1	AA	1144	G	C8-N9-C4	-9.59	102.56	106.40
26	BB	1008	A	O4'-C1'-N9	9.59	115.87	108.20
26	BB	2722	G	C6-N1-C2	-9.59	119.35	125.10
3	AC	33	A	C5'-C4'-C3'	-9.59	100.66	116.00
26	BB	441	U	C2-N3-C4	-9.59	121.25	127.00
26	BB	460	A	C2-N3-C4	9.59	115.39	110.60
26	BB	1437	C	N1-C2-O2	9.59	124.65	118.90
26	BB	2126	A	O4'-C4'-C3'	9.59	113.77	106.10
1	AA	257	G	N7-C8-N9	9.58	117.89	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	364	A	C4-C5-N7	-9.58	105.91	110.70
5	AE	122	ASP	CB-CG-OD1	9.58	126.92	118.30
26	BB	604	G	C8-N9-C4	-9.58	102.57	106.40
26	BB	650	C	N3-C4-N4	9.58	124.71	118.00
26	BB	2276	G	C4-C5-N7	-9.58	106.97	110.80
43	BS	5	ARG	NE-CZ-NH2	9.58	125.09	120.30
1	AA	72	A	N7-C8-N9	-9.58	109.01	113.80
1	AA	1197	A	C2-N3-C4	9.58	115.39	110.60
25	BA	65	U	N1-C2-O2	-9.58	116.09	122.80
26	BB	1645	G	N1-C2-N3	-9.58	118.15	123.90
26	BB	2481	G	N9-C4-C5	9.58	109.23	105.40
26	BB	995	C	O4'-C1'-N1	9.58	115.86	108.20
26	BB	2626	C	N1-C1'-C2'	-9.58	101.46	112.00
26	BB	917	A	N1-C2-N3	-9.58	124.51	129.30
26	BB	1252	G	C5-C6-N1	9.58	116.29	111.50
26	BB	2393	U	N1-C2-N3	9.58	120.64	114.90
26	BB	2862	G	C6-N1-C2	-9.58	119.35	125.10
1	AA	1210	C	N3-C4-N4	9.57	124.70	118.00
1	AA	1299	A	C4'-C3'-C2'	9.57	112.17	102.60
1	AA	1383	C	C6-N1-C2	-9.57	116.47	120.30
3	AC	50	U	P-O3'-C3'	9.57	131.19	119.70
26	BB	1513	U	N3-C4-C5	-9.57	108.86	114.60
26	BB	1531	C	O4'-C1'-N1	9.57	115.86	108.20
26	BB	2145	C	C3'-C2'-C1'	-9.57	93.84	101.50
26	BB	2623	G	N9-C4-C5	9.57	109.23	105.40
26	BB	2672	U	N3-C2-O2	-9.57	115.50	122.20
26	BB	1303	G	C8-N9-C4	-9.57	102.57	106.40
26	BB	2223	G	C6-C5-N7	-9.57	124.66	130.40
26	BB	2295	C	O4'-C1'-N1	9.57	115.86	108.20
1	AA	223	A	C5-N7-C8	-9.57	99.11	103.90
1	AA	418	C	N3-C4-N4	9.57	124.70	118.00
54	B3	16	ARG	NE-CZ-NH1	9.57	125.09	120.30
1	AA	987	G	C5-C6-O6	-9.57	122.86	128.60
1	AA	1335	U	C4-C5-C6	9.57	125.44	119.70
1	AA	1426	G	C5-N7-C8	-9.57	99.52	104.30
26	BB	1456	G	C5-N7-C8	9.57	109.08	104.30
1	AA	454	G	N3-C4-C5	-9.57	123.82	128.60
26	BB	789	A	C8-N9-C4	-9.57	101.97	105.80
29	BE	46	ARG	NE-CZ-NH1	9.57	125.08	120.30
26	BB	1047	G	C5-C6-O6	9.57	134.34	128.60
26	BB	2618	G	N7-C8-N9	9.57	117.88	113.10
1	AA	436	C	N3-C4-C5	-9.56	118.07	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1272	G	C2-N3-C4	9.56	116.68	111.90
26	BB	1949	G	C4-C5-N7	-9.56	106.97	110.80
26	BB	2191	A	C4-C5-C6	-9.56	112.22	117.00
26	BB	2747	G	N7-C8-N9	9.56	117.88	113.10
1	AA	63	C	C5'-C4'-O4'	9.56	120.58	109.10
26	BB	1353	A	O4'-C1'-N9	9.56	115.85	108.20
1	AA	916	U	N1-C2-N3	9.56	120.64	114.90
1	AA	1397	C	N3-C2-O2	-9.56	115.21	121.90
26	BB	1309	G	N3-C2-N2	-9.56	113.21	119.90
26	BB	1431	A	N1-C6-N6	-9.56	112.86	118.60
26	BB	1830	C	C6-N1-C2	-9.56	116.48	120.30
42	BR	88	ARG	NE-CZ-NH1	-9.56	115.52	120.30
1	AA	347	G	O4'-C1'-N9	9.56	115.84	108.20
1	AA	728	A	C4-C5-N7	9.55	115.48	110.70
1	AA	1032	G	O4'-C1'-N9	9.55	115.84	108.20
25	BA	18	G	C3'-C2'-C1'	9.55	109.14	101.50
26	BB	278	A	N1-C2-N3	-9.55	124.52	129.30
26	BB	886	A	C5-N7-C8	-9.56	99.12	103.90
26	BB	2008	C	C5-C6-N1	9.56	125.78	121.00
26	BB	1074	G	C6-C5-N7	9.55	136.13	130.40
26	BB	1487	U	O4'-C1'-N1	9.55	115.84	108.20
1	AA	1268	G	C2-N3-C4	9.55	116.68	111.90
4	AD	59	A	N1-C2-N3	-9.55	124.52	129.30
1	AA	1244	G	N1-C2-N3	-9.55	118.17	123.90
25	BA	30	C	O4'-C1'-N1	9.55	115.84	108.20
26	BB	66	C	C5-C6-N1	9.55	125.78	121.00
26	BB	913	U	N1-C2-N3	9.55	120.63	114.90
26	BB	1469	A	N1-C6-N6	-9.55	112.87	118.60
46	BV	12	ARG	NE-CZ-NH2	-9.55	115.53	120.30
1	AA	1415	G	C8-N9-C4	-9.55	102.58	106.40
26	BB	342	A	C5-C6-N1	-9.55	112.92	117.70
3	AC	26	U	C1'-O4'-C4'	9.55	117.54	109.90
25	BA	20	G	N9-C4-C5	9.55	109.22	105.40
26	BB	573	U	N1-C2-N3	9.55	120.63	114.90
26	BB	627	A	O4'-C1'-N9	9.55	115.84	108.20
26	BB	2627	G	C2-N3-C4	9.55	116.67	111.90
1	AA	835	U	C4'-C3'-C2'	-9.55	93.05	102.60
1	AA	1254	A	N1-C2-N3	-9.55	124.53	129.30
3	AC	14	G	N3-C4-C5	-9.55	123.83	128.60
26	BB	315	G	C2-N3-C4	9.54	116.67	111.90
26	BB	1039	A	N9-C4-C5	9.55	109.62	105.80
26	BB	1612	C	N1-C1'-C2'	-9.55	101.50	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1628	G	O4'-C1'-N9	9.54	115.83	108.20
26	BB	1881	C	C2-N3-C4	-9.54	115.13	119.90
26	BB	2015	A	N7-C8-N9	9.54	118.57	113.80
26	BB	2862	G	C2-N3-C4	9.54	116.67	111.90
1	AA	278	G	C8-N9-C4	-9.54	102.58	106.40
1	AA	377	G	C8-N9-C4	-9.54	102.58	106.40
1	AA	1265	C	N3-C4-C5	-9.54	118.08	121.90
1	AA	1306	A	N9-C4-C5	9.54	109.62	105.80
26	BB	2545	G	C8-N9-C4	-9.54	102.58	106.40
26	BB	2641	G	O4'-C1'-N9	9.54	115.83	108.20
1	AA	1275	A	C8-N9-C4	-9.54	101.98	105.80
26	BB	1590	A	N7-C8-N9	9.54	118.57	113.80
26	BB	2355	G	N3-C4-C5	-9.54	123.83	128.60
26	BB	74	A	N9-C4-C5	9.54	109.61	105.80
26	BB	890	C	N3-C4-C5	-9.54	118.08	121.90
26	BB	1897	G	C5-C6-O6	-9.54	122.88	128.60
1	AA	1486	G	N3-C4-N9	9.53	131.72	126.00
4	AD	40	C	N3-C2-O2	-9.53	115.23	121.90
26	BB	310	A	O4'-C1'-N9	9.53	115.83	108.20
26	BB	1077	A	C5-C6-N1	9.53	122.47	117.70
26	BB	1566	A	O4'-C1'-N9	9.54	115.83	108.20
26	BB	1633	G	C8-N9-C4	-9.53	102.59	106.40
26	BB	2170	A	C8-N9-C4	-9.54	101.99	105.80
1	AA	349	A	C4-C5-N7	9.53	115.47	110.70
26	BB	98	G	C5-C6-O6	-9.53	122.88	128.60
26	BB	209	C	N3-C4-N4	9.53	124.67	118.00
26	BB	228	C	N1-C2-O2	9.53	124.62	118.90
1	AA	965	U	C6-N1-C2	9.53	126.72	121.00
26	BB	55	G	N7-C8-N9	9.53	117.87	113.10
26	BB	1125	G	C5-C6-O6	-9.53	122.88	128.60
26	BB	1401	G	N3-C4-C5	-9.53	123.83	128.60
25	BA	81	G	N9-C4-C5	-9.53	101.59	105.40
26	BB	863	A	N1-C2-N3	-9.53	124.53	129.30
26	BB	2583	G	N3-C4-N9	9.53	131.72	126.00
26	BB	2803	G	C3'-C2'-C1'	-9.53	93.88	101.50
26	BB	2687	U	C4-C5-C6	-9.53	113.98	119.70
36	BL	37	ARG	NH1-CZ-NH2	-9.53	108.92	119.40
1	AA	506	G	N1-C6-O6	9.53	125.62	119.90
1	AA	327	A	C5-C6-N1	-9.53	112.94	117.70
1	AA	572	A	O4'-C1'-N9	9.53	115.82	108.20
1	AA	1090	U	O4'-C1'-N1	9.53	115.82	108.20
1	AA	718	A	C5-N7-C8	9.53	108.66	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1156	A	N7-C8-N9	9.53	118.56	113.80
26	BB	1158	C	N3-C4-C5	-9.53	118.09	121.90
26	BB	2545	G	N9-C4-C5	9.53	109.21	105.40
1	AA	22	G	C2-N3-C4	9.52	116.66	111.90
1	AA	1535	C	C5-C6-N1	9.52	125.76	121.00
25	BA	75	G	C5-N7-C8	-9.52	99.54	104.30
26	BB	2136	G	N9-C4-C5	9.52	109.21	105.40
1	AA	1385	G	O4'-C1'-N9	9.52	115.82	108.20
1	AA	1521	C	N3-C4-C5	-9.52	118.09	121.90
26	BB	2436	G	N3-C4-C5	9.52	133.36	128.60
1	AA	158	G	C5-C6-N1	9.52	116.26	111.50
1	AA	271	C	N1-C2-O2	9.52	124.61	118.90
1	AA	525	C	C6-N1-C2	-9.52	116.49	120.30
1	AA	1273	C	N3-C4-C5	-9.52	118.09	121.90
2	AB	5	G	C8-N9-C4	-9.52	102.59	106.40
26	BB	489	G	N3-C4-C5	-9.52	123.84	128.60
26	BB	1651	G	N9-C4-C5	9.52	109.21	105.40
26	BB	2154	A	C2-N3-C4	9.52	115.36	110.60
1	AA	149	A	C5-C6-N1	9.52	122.46	117.70
1	AA	631	C	N1-C2-O2	9.52	124.61	118.90
2	AB	35	C	N1-C2-N3	-9.52	112.54	119.20
26	BB	1643	G	C8-N9-C4	9.52	110.21	106.40
1	AA	872	A	N1-C2-N3	-9.52	124.54	129.30
1	AA	1222	G	O4'-C1'-N9	9.52	115.81	108.20
3	AC	49	U	C2-N3-C4	-9.52	121.29	127.00
4	AD	76	C	C2-N3-C4	9.52	124.66	119.90
26	BB	1616	A	N9-C4-C5	9.52	109.61	105.80
26	BB	2323	G	C6-N1-C2	-9.52	119.39	125.10
26	BB	877	A	O4'-C1'-N9	9.51	115.81	108.20
26	BB	2227	A	C3'-C2'-C1'	-9.51	93.89	101.50
26	BB	2858	C	C2-N3-C4	9.51	124.66	119.90
1	AA	581	G	C5-C6-O6	-9.51	122.89	128.60
26	BB	447	A	C4-C5-C6	9.51	121.76	117.00
1	AA	577	G	C4-C5-N7	-9.51	107.00	110.80
1	AA	838	G	C6-N1-C2	-9.51	119.39	125.10
1	AA	1461	G	C8-N9-C4	9.51	110.20	106.40
4	AD	1	C	N1-C2-O2	9.51	124.61	118.90
26	BB	1378	A	N1-C6-N6	-9.51	112.89	118.60
26	BB	2827	C	N3-C4-C5	9.51	125.70	121.90
26	BB	2546	U	C2-N3-C4	-9.51	121.29	127.00
1	AA	557	G	C5-N7-C8	-9.51	99.55	104.30
26	BB	1360	G	N9-C4-C5	9.51	109.20	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1380	G	N9-C4-C5	9.51	109.20	105.40
12	AL	89	TYR	CB-CG-CD1	-9.50	115.30	121.00
26	BB	504	A	N9-C4-C5	9.50	109.60	105.80
26	BB	1478	G	C4-C5-N7	9.50	114.60	110.80
26	BB	2740	A	N9-C4-C5	9.50	109.60	105.80
26	BB	2801	G	N3-C2-N2	-9.50	113.25	119.90
1	AA	291	U	C4-C5-C6	9.50	125.40	119.70
1	AA	1244	G	O4'-C1'-N9	9.50	115.80	108.20
1	AA	1351	U	N3-C4-C5	-9.50	108.90	114.60
1	AA	524	G	C5'-C4'-O4'	9.50	120.50	109.10
1	AA	1219	A	C5'-C4'-O4'	9.50	120.50	109.10
6	AF	167	TYR	CB-CG-CD1	-9.50	115.30	121.00
26	BB	367	G	C5-C6-N1	9.50	116.25	111.50
26	BB	2076	U	O4'-C1'-N1	9.50	115.80	108.20
1	AA	314	C	O4'-C1'-N1	9.50	115.80	108.20
1	AA	501	C	C5-C6-N1	9.50	125.75	121.00
1	AA	1225	A	C5-N7-C8	-9.50	99.15	103.90
4	AD	24	C	O4'-C1'-N1	9.50	115.80	108.20
26	BB	536	G	C4-C5-N7	-9.50	107.00	110.80
26	BB	2281	A	N9-C4-C5	9.50	109.60	105.80
26	BB	155	A	N7-C8-N9	9.49	118.55	113.80
26	BB	5	A	C6-N1-C2	9.49	124.30	118.60
26	BB	367	G	C2-N3-C4	9.49	116.65	111.90
26	BB	1792	G	N9-C4-C5	9.49	109.20	105.40
26	BB	2468	A	N1-C2-N3	-9.49	124.55	129.30
26	BB	1138	G	N9-C4-C5	9.49	109.20	105.40
26	BB	1397	U	C1'-O4'-C4'	9.49	117.49	109.90
26	BB	2756	U	C5-C6-N1	-9.49	117.95	122.70
26	BB	2815	C	C4-C5-C6	9.49	122.15	117.40
1	AA	92	U	C5-C4-O4	-9.49	120.20	125.90
29	BE	128	ARG	NE-CZ-NH1	9.49	125.05	120.30
1	AA	749	A	N9-C1'-C2'	-9.49	101.56	112.00
26	BB	80	G	N3-C2-N2	9.49	126.54	119.90
26	BB	728	G	N3-C4-C5	-9.49	123.86	128.60
26	BB	1893	C	N3-C2-O2	-9.49	115.26	121.90
26	BB	2086	U	O4'-C1'-N1	9.49	115.79	108.20
26	BB	2664	G	N3-C4-C5	-9.49	123.86	128.60
26	BB	2852	G	C4-C5-N7	-9.49	107.00	110.80
26	BB	1089	A	N1-C2-N3	-9.49	124.56	129.30
26	BB	1299	G	C4-C5-N7	-9.49	107.01	110.80
26	BB	2860	A	C2-N3-C4	9.49	115.34	110.60
1	AA	729	A	C4-C5-N7	-9.48	105.96	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	795	C	C6-N1-C2	-9.48	116.51	120.30
1	AA	240	G	N3-C4-C5	-9.48	123.86	128.60
1	AA	1270	G	N9-C4-C5	9.48	109.19	105.40
26	BB	245	G	N1-C6-O6	9.48	125.59	119.90
26	BB	760	G	C4-C5-C6	9.48	124.49	118.80
26	BB	505	A	N1-C2-N3	-9.48	124.56	129.30
26	BB	1206	G	N9-C4-C5	9.48	109.19	105.40
26	BB	1505	A	O5'-P-OP2	-9.48	97.17	105.70
26	BB	1871	A	N9-C4-C5	9.48	109.59	105.80
26	BB	2510	C	C6-N1-C2	-9.48	116.51	120.30
1	AA	1026	G	C2-N3-C4	9.48	116.64	111.90
26	BB	251	A	O4'-C1'-N9	9.48	115.78	108.20
26	BB	730	A	N1-C6-N6	-9.48	112.91	118.60
26	BB	2752	C	N3-C2-O2	-9.48	115.27	121.90
40	BP	63	ARG	NE-CZ-NH2	-9.48	115.56	120.30
26	BB	1938	A	N1-C6-N6	9.47	124.28	118.60
1	AA	691	G	O4'-C1'-N9	9.47	115.78	108.20
3	AC	29	G	N3-C4-N9	-9.47	120.32	126.00
26	BB	32	C	N3-C4-N4	9.47	124.63	118.00
26	BB	210	C	C6-N1-C2	-9.47	116.51	120.30
26	BB	568	U	O4'-C1'-N1	9.47	115.78	108.20
26	BB	2201	G	C3'-C2'-C1'	9.47	109.08	101.50
26	BB	933	A	C2-N3-C4	9.47	115.34	110.60
26	BB	2649	C	C4-C5-C6	9.47	122.14	117.40
1	AA	65	A	C4-C5-N7	-9.47	105.96	110.70
3	AC	47	C	N3-C4-C5	-9.47	118.11	121.90
26	BB	1502	A	C4'-C3'-C2'	-9.47	93.13	102.60
26	BB	150	U	N3-C2-O2	-9.47	115.57	122.20
26	BB	940	G	N7-C8-N9	9.47	117.83	113.10
26	BB	1707	G	C2-N3-C4	9.47	116.64	111.90
26	BB	2838	G	C4-C5-N7	9.47	114.59	110.80
1	AA	1175	G	C6-C5-N7	-9.47	124.72	130.40
1	AA	1297	G	C5-N7-C8	9.47	109.03	104.30
26	BB	404	A	N1-C6-N6	-9.47	112.92	118.60
26	BB	783	A	O4'-C1'-N9	9.47	115.78	108.20
1	AA	742	G	C4-C5-C6	9.47	124.48	118.80
26	BB	2145	C	O4'-C1'-N1	9.47	115.77	108.20
1	AA	106	C	N3-C4-N4	9.47	124.63	118.00
1	AA	1020	G	C6-C5-N7	9.46	136.08	130.40
26	BB	138	U	C5-C6-N1	-9.46	117.97	122.70
1	AA	100	G	N3-C4-C5	-9.46	123.87	128.60
1	AA	624	C	N1-C2-O2	9.46	124.58	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	885	G	O4'-C4'-C3'	-9.46	94.54	104.00
25	BA	32	U	C5-C6-N1	-9.46	117.97	122.70
26	BB	145	C	C2-N3-C4	-9.46	115.17	119.90
26	BB	2729	G	O4'-C1'-N9	9.46	115.77	108.20
26	BB	1899	A	N1-C2-N3	-9.46	124.57	129.30
1	AA	197	A	C4-C5-C6	-9.46	112.27	117.00
1	AA	705	G	N1-C6-O6	-9.46	114.22	119.90
26	BB	616	A	N9-C4-C5	9.46	109.58	105.80
26	BB	1725	U	C2-N3-C4	-9.46	121.33	127.00
26	BB	2043	C	N1-C2-O2	9.46	124.58	118.90
26	BB	2626	C	N3-C2-O2	-9.46	115.28	121.90
26	BB	1674	G	N9-C4-C5	9.46	109.18	105.40
1	AA	640	A	O4'-C1'-N9	9.45	115.76	108.20
26	BB	370	G	C8-N9-C4	-9.45	102.62	106.40
26	BB	1371	G	C8-N9-C4	9.46	110.18	106.40
1	AA	230	G	C4-C5-C6	9.45	124.47	118.80
1	AA	7	A	C8-N9-C4	-9.45	102.02	105.80
1	AA	1181	G	O4'-C1'-N9	9.45	115.76	108.20
26	BB	1324	G	N7-C8-N9	9.45	117.83	113.10
26	BB	1996	C	C2-N3-C4	-9.45	115.17	119.90
1	AA	825	A	C8-N9-C4	-9.45	102.02	105.80
2	AB	36	A	C5-C6-N1	9.45	122.42	117.70
26	BB	320	A	C6-C5-N7	9.45	138.91	132.30
36	BL	60	ASP	CB-CG-OD1	-9.45	109.80	118.30
26	BB	2053	G	N9-C4-C5	9.45	109.18	105.40
26	BB	2446	G	C5'-C4'-O4'	9.45	120.44	109.10
26	BB	2740	A	C1'-O4'-C4'	-9.45	102.34	109.90
1	AA	48	C	C5-C6-N1	9.45	125.72	121.00
26	BB	2828	G	O4'-C1'-N9	9.45	115.76	108.20
1	AA	122	G	C5-N7-C8	9.44	109.02	104.30
26	BB	603	A	C8-N9-C4	-9.45	102.02	105.80
26	BB	1189	A	N1-C2-N3	9.44	134.02	129.30
26	BB	1645	G	N3-C4-C5	-9.45	123.88	128.60
26	BB	1883	U	N1-C2-N3	-9.45	109.23	114.90
26	BB	2553	G	C2-N3-C4	9.44	116.62	111.90
26	BB	602	A	C2-N3-C4	9.44	115.32	110.60
26	BB	858	G	C2-N3-C4	9.44	116.62	111.90
26	BB	2054	A	N1-C6-N6	-9.44	112.94	118.60
26	BB	2553	G	O4'-C1'-N9	9.44	115.75	108.20
2	AB	47	U	N1-C2-O2	9.44	129.41	122.80
26	BB	2055	C	N1-C2-O2	9.44	124.56	118.90
1	AA	631	C	N3-C2-O2	-9.44	115.29	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	936	C	C6-N1-C2	-9.44	116.52	120.30
26	BB	1331	G	C3'-C2'-C1'	9.44	109.05	101.50
26	BB	2080	A	C8-N9-C4	-9.44	102.03	105.80
26	BB	2501	C	C4'-C3'-C2'	-9.44	93.16	102.60
1	AA	356	A	C4-C5-N7	-9.44	105.98	110.70
1	AA	628	G	O4'-C1'-N9	9.44	115.75	108.20
1	AA	748	G	C5-C6-O6	-9.44	122.94	128.60
26	BB	364	C	C5-C4-N4	-9.44	113.59	120.20
26	BB	2136	G	N3-C4-N9	-9.44	120.34	126.00
26	BB	2275	C	N3-C4-C5	9.44	125.67	121.90
26	BB	2631	G	O4'-C1'-N9	9.44	115.75	108.20
1	AA	702	A	O4'-C4'-C3'	9.43	113.65	106.10
26	BB	2241	A	O4'-C1'-N9	9.43	115.75	108.20
4	AD	32	G	N3-C4-C5	-9.43	123.88	128.60
26	BB	1167	C	O4'-C1'-N1	9.43	115.75	108.20
26	BB	2391	G	C4-C5-N7	-9.43	107.03	110.80
26	BB	2544	G	N3-C2-N2	-9.43	113.30	119.90
26	BB	2606	C	C2-N3-C4	9.43	124.62	119.90
1	AA	206	C	C2-N3-C4	9.43	124.61	119.90
26	BB	1959	G	N3-C4-C5	-9.43	123.89	128.60
1	AA	147	G	O4'-C1'-N9	9.43	115.74	108.20
26	BB	331	C	C5-C6-N1	9.43	125.72	121.00
26	BB	453	A	P-O3'-C3'	9.43	131.01	119.70
26	BB	505	A	O4'-C1'-N9	9.43	115.74	108.20
1	AA	1191	A	N7-C8-N9	9.43	118.51	113.80
1	AA	1521	C	N1-C2-O2	9.43	124.56	118.90
1	AA	10	A	O4'-C4'-C3'	9.43	113.64	106.10
1	AA	218	U	N1-C2-N3	9.43	120.56	114.90
1	AA	305	G	C4-C5-N7	9.43	114.57	110.80
1	AA	494	G	C6-C5-N7	-9.43	124.74	130.40
1	AA	661	G	O4'-C1'-N9	9.43	115.74	108.20
3	AC	57	C	C3'-C2'-C1'	9.43	109.04	101.50
1	AA	951	G	N7-C8-N9	-9.43	108.39	113.10
26	BB	780	G	C5-C6-O6	9.43	134.25	128.60
26	BB	1041	G	C8-N9-C4	-9.43	102.63	106.40
26	BB	1239	G	C1'-O4'-C4'	-9.43	102.36	109.90
26	BB	1658	C	C6-N1-C2	-9.43	116.53	120.30
26	BB	2031	A	O4'-C1'-N9	9.43	115.74	108.20
26	BB	2697	G	N3-C4-C5	-9.43	123.89	128.60
26	BB	2293	G	C4-C5-N7	-9.43	107.03	110.80
1	AA	99	C	C5-C6-N1	9.42	125.71	121.00
6	AF	125	ARG	NE-CZ-NH2	-9.42	115.59	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	146	A	N9-C4-C5	9.42	109.57	105.80
26	BB	1245	G	N3-C4-C5	-9.42	123.89	128.60
26	BB	2430	A	O4'-C1'-N9	-9.42	100.66	108.20
1	AA	425	G	C6-N1-C2	-9.42	119.45	125.10
1	AA	765	G	N7-C8-N9	-9.42	108.39	113.10
1	AA	1499	A	N9-C4-C5	9.42	109.57	105.80
26	BB	533	G	N9-C4-C5	-9.42	101.63	105.40
26	BB	1348	C	C2-N3-C4	9.42	124.61	119.90
26	BB	807	U	N1-C2-O2	9.42	129.40	122.80
1	AA	1478	U	O4'-C1'-N1	9.42	115.74	108.20
1	AA	117	G	C8-N9-C4	-9.42	102.63	106.40
1	AA	143	A	C5-N7-C8	-9.42	99.19	103.90
1	AA	1383	C	N3-C2-O2	-9.42	115.31	121.90
26	BB	1303	G	N3-C4-C5	-9.42	123.89	128.60
26	BB	1524	G	C5-C6-O6	-9.42	122.95	128.60
26	BB	1478	G	C4'-C3'-C2'	-9.42	93.18	102.60
26	BB	1537	G	C3'-C2'-C1'	9.42	109.03	101.50
26	BB	2733	A	N9-C4-C5	-9.42	102.03	105.80
1	AA	900	A	C5-C6-N1	9.41	122.41	117.70
26	BB	355	U	C5'-C4'-O4'	9.41	120.40	109.10
26	BB	2037	A	N1-C6-N6	-9.41	112.95	118.60
1	AA	364	A	O4'-C1'-N9	9.41	115.73	108.20
26	BB	1116	G	N3-C4-N9	9.41	131.65	126.00
26	BB	1557	C	C6-N1-C2	-9.41	116.53	120.30
26	BB	1986	C	O4'-C1'-N1	9.41	115.73	108.20
26	BB	2289	G	C4-C5-N7	9.41	114.56	110.80
48	BX	9	ARG	NE-CZ-NH1	9.41	125.01	120.30
26	BB	986	C	C5-C6-N1	9.41	125.71	121.00
1	AA	479	U	N3-C4-C5	-9.41	108.95	114.60
26	BB	1210	G	N9-C4-C5	9.41	109.16	105.40
1	AA	1070	U	O4'-C1'-N1	9.41	115.73	108.20
1	AA	1525	G	C5'-C4'-O4'	9.41	120.39	109.10
26	BB	552	U	N1-C2-N3	9.41	120.54	114.90
26	BB	627	A	C6-N1-C2	9.41	124.25	118.60
26	BB	1359	A	C5-C6-N1	9.41	122.40	117.70
1	AA	482	A	N1-C2-N3	-9.40	124.60	129.30
1	AA	1053	G	N3-C4-C5	-9.40	123.90	128.60
1	AA	1090	U	N1-C2-O2	-9.40	116.22	122.80
12	AL	44	ARG	NE-CZ-NH2	-9.40	115.60	120.30
26	BB	2242	G	N9-C1'-C2'	-9.40	101.66	112.00
1	AA	1375	A	C4-C5-N7	9.40	115.40	110.70
25	BA	7	G	C5-N7-C8	-9.40	99.60	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1387	G	N3-C2-N2	-9.40	113.32	119.90
28	BD	119	VAL	CA-CB-CG2	9.40	125.00	110.90
1	AA	531	U	O4'-C1'-N1	9.40	115.72	108.20
1	AA	791	G	O4'-C1'-N9	9.40	115.72	108.20
4	AD	4	G	C5-C6-N1	9.40	116.20	111.50
7	AG	49	ASP	CB-CG-OD2	9.40	126.76	118.30
26	BB	356	G	O4'-C1'-N9	9.40	115.72	108.20
26	BB	425	G	N1-C6-O6	-9.40	114.26	119.90
26	BB	1737	G	O4'-C1'-N9	9.40	115.72	108.20
26	BB	1803	A	C4-C5-N7	-9.40	106.00	110.70
26	BB	2125	G	N3-C4-N9	-9.40	120.36	126.00
5	AE	183	PHE	CB-CG-CD2	-9.40	114.22	120.80
26	BB	160	A	C4-C5-N7	-9.40	106.00	110.70
26	BB	241	A	P-O3'-C3'	9.40	130.98	119.70
26	BB	451	U	O4'-C4'-C3'	9.40	113.62	106.10
26	BB	1129	A	C8-N9-C4	-9.40	102.04	105.80
1	AA	964	A	C3'-C2'-C1'	-9.40	93.98	101.50
4	AD	4	G	C6-C5-N7	9.40	136.04	130.40
26	BB	1044	C	C2-N3-C4	9.40	124.60	119.90
26	BB	1824	G	O4'-C1'-N9	9.40	115.72	108.20
1	AA	364	A	C8-N9-C4	-9.39	102.04	105.80
1	AA	839	C	O4'-C1'-N1	9.39	115.72	108.20
3	AC	41	A	N1-C6-N6	-9.39	112.96	118.60
26	BB	743	A	N1-C6-N6	9.39	124.24	118.60
26	BB	2571	U	N3-C2-O2	-9.39	115.62	122.20
26	BB	2722	G	C5-C6-O6	-9.39	122.96	128.60
1	AA	852	G	N7-C8-N9	-9.39	108.40	113.10
1	AA	1041	G	N3-C4-C5	-9.39	123.90	128.60
4	AD	28	U	C4-C5-C6	9.39	125.33	119.70
26	BB	2475	C	C5-C4-N4	9.39	126.77	120.20
26	BB	2598	A	C5-C6-N6	-9.39	116.19	123.70
1	AA	39	G	C8-N9-C4	-9.39	102.64	106.40
1	AA	401	C	N3-C4-C5	-9.39	118.14	121.90
1	AA	681	A	C5-C6-N6	-9.39	116.19	123.70
26	BB	199	A	O4'-C1'-N9	9.39	115.71	108.20
26	BB	295	G	C5-C6-O6	-9.39	122.97	128.60
26	BB	610	C	C1'-O4'-C4'	9.39	117.41	109.90
26	BB	542	C	O4'-C1'-N1	9.39	115.71	108.20
26	BB	695	G	C4'-C3'-C2'	-9.39	93.21	102.60
26	BB	973	A	C8-N9-C4	-9.39	102.04	105.80
26	BB	2722	G	C2-N3-C4	9.39	116.59	111.90
25	BA	9	G	N1-C6-O6	-9.39	114.27	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	425	G	O4'-C1'-N9	9.39	115.71	108.20
26	BB	494	G	N1-C2-N2	9.39	124.65	116.20
26	BB	1106	G	C5-C6-N1	9.39	116.19	111.50
26	BB	513	A	N1-C2-N3	9.39	133.99	129.30
1	AA	303	A	N9-C4-C5	9.39	109.55	105.80
1	AA	330	C	C5-C6-N1	9.39	125.69	121.00
26	BB	769	U	C6-N1-C2	-9.39	115.37	121.00
26	BB	1858	A	C3'-C2'-C1'	-9.39	93.99	101.50
1	AA	923	A	C2-N3-C4	9.38	115.29	110.60
20	AT	33	TYR	CB-CG-CD1	-9.38	115.37	121.00
46	BV	3	ARG	NE-CZ-NH2	-9.38	115.61	120.30
1	AA	728	A	C5-N7-C8	-9.38	99.21	103.90
1	AA	1332	A	C8-N9-C4	-9.38	102.05	105.80
2	AB	59	G	N7-C8-N9	9.38	117.79	113.10
26	BB	870	U	N3-C4-C5	-9.38	108.97	114.60
26	BB	1231	U	N1-C2-N3	9.38	120.53	114.90
26	BB	2289	G	N9-C4-C5	-9.38	101.65	105.40
26	BB	2718	G	O4'-C1'-N9	9.38	115.70	108.20
1	AA	157	U	C5-C6-N1	9.38	127.39	122.70
1	AA	1398	A	C4-C5-N7	9.38	115.39	110.70
4	AD	71	G	O4'-C1'-N9	9.38	115.70	108.20
26	BB	347	A	C4'-C3'-C2'	-9.38	93.22	102.60
1	AA	1137	C	O4'-C1'-N1	9.38	115.70	108.20
26	BB	562	U	N1-C2-N3	9.38	120.53	114.90
26	BB	1756	G	O4'-C1'-N9	9.38	115.70	108.20
4	AD	16	C	O4'-C1'-N1	9.38	115.70	108.20
1	AA	467	U	C2-N3-C4	-9.37	121.38	127.00
26	BB	76	C	C5-C4-N4	-9.37	113.64	120.20
26	BB	1105	U	O4'-C1'-N1	9.38	115.70	108.20
26	BB	1661	G	C2-N3-C4	9.38	116.59	111.90
26	BB	1761	C	C5-C4-N4	9.37	126.76	120.20
26	BB	1511	G	N1-C6-O6	-9.37	114.28	119.90
1	AA	41	G	O4'-C1'-N9	9.37	115.70	108.20
3	AC	20	G	C5-N7-C8	9.37	108.98	104.30
26	BB	1167	C	N3-C2-O2	-9.37	115.34	121.90
26	BB	1736	U	C4'-C3'-C2'	-9.37	93.23	102.60
26	BB	2162	G	N3-C4-C5	-9.37	123.91	128.60
1	AA	477	C	C5-C4-N4	-9.37	113.64	120.20
1	AA	723	U	N3-C4-O4	9.37	125.96	119.40
26	BB	837	C	C2-N3-C4	9.37	124.58	119.90
26	BB	2129	C	O4'-C4'-C3'	9.37	113.59	106.10
13	AM	65	TYR	CB-CG-CD1	-9.37	115.38	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	774	G	N1-C6-O6	-9.37	114.28	119.90
8	AH	28	ARG	NE-CZ-NH2	-9.37	115.62	120.30
26	BB	535	G	C8-N9-C4	-9.37	102.65	106.40
26	BB	1483	G	N3-C4-C5	-9.37	123.92	128.60
26	BB	2375	G	C4-C5-N7	-9.37	107.05	110.80
26	BB	1288	G	O4'-C1'-N9	9.36	115.69	108.20
26	BB	1639	C	N3-C4-C5	-9.37	118.15	121.90
26	BB	2466	C	O4'-C1'-N1	9.37	115.69	108.20
26	BB	1655	A	C5-N7-C8	-9.36	99.22	103.90
30	BF	117	ARG	NE-CZ-NH1	9.37	124.98	120.30
42	BR	97	TYR	CB-CG-CD2	9.37	126.62	121.00
43	BS	23	TYR	CB-CG-CD1	-9.37	115.38	121.00
26	BB	1291	C	C5-C6-N1	9.36	125.68	121.00
1	AA	119	A	C5-N7-C8	9.36	108.58	103.90
1	AA	1148	U	N1-C2-N3	9.36	120.52	114.90
2	AB	35	C	O4'-C1'-C2'	-9.36	96.44	105.80
4	AD	35	C	O4'-C1'-N1	9.36	115.69	108.20
26	BB	335	C	C5'-C4'-O4'	9.36	120.33	109.10
1	AA	453	G	C8-N9-C4	-9.36	102.66	106.40
1	AA	987	G	N9-C4-C5	9.36	109.14	105.40
1	AA	925	G	O4'-C1'-N9	9.36	115.69	108.20
25	BA	78	A	C5-N7-C8	-9.36	99.22	103.90
26	BB	44	A	C5-C6-N1	9.36	122.38	117.70
26	BB	1250	G	C5-N7-C8	9.36	108.98	104.30
1	AA	924	C	C6-N1-C2	-9.36	116.56	120.30
2	AB	9	A	C5-N7-C8	9.36	108.58	103.90
1	AA	544	G	C8-N9-C4	-9.36	102.66	106.40
26	BB	921	C	C6-N1-C2	-9.36	116.56	120.30
26	BB	2141	G	O4'-C1'-N9	9.36	115.69	108.20
26	BB	2644	G	N1-C2-N3	9.36	129.51	123.90
26	BB	1061	U	O4'-C1'-N1	9.36	115.68	108.20
1	AA	617	G	C4-C5-N7	-9.35	107.06	110.80
1	AA	1318	A	N1-C2-N3	-9.35	124.62	129.30
26	BB	2634	A	O4'-C1'-N9	9.35	115.68	108.20
1	AA	737	C	N3-C4-C5	-9.35	118.16	121.90
1	AA	1280	A	N1-C6-N6	9.35	124.21	118.60
26	BB	1036	G	C5-N7-C8	-9.35	99.62	104.30
26	BB	374	A	N9-C4-C5	9.35	109.54	105.80
1	AA	402	G	N1-C2-N2	9.35	124.61	116.20
1	AA	1255	G	N1-C2-N2	9.35	124.61	116.20
2	AB	45	U	C2-N3-C4	-9.35	121.39	127.00
26	BB	77	G	N9-C4-C5	-9.35	101.66	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	640	C	C4-C5-C6	-9.35	112.73	117.40
1	AA	51	A	C8-N9-C4	-9.35	102.06	105.80
1	AA	366	A	C8-N9-C4	-9.35	102.06	105.80
1	AA	529	G	C4-C5-N7	-9.35	107.06	110.80
1	AA	1507	A	C5-N7-C8	-9.35	99.23	103.90
26	BB	299	A	C4-C5-C6	9.35	121.67	117.00
26	BB	508	A	C8-N9-C4	-9.35	102.06	105.80
26	BB	1333	G	C6-C5-N7	-9.35	124.79	130.40
26	BB	1928	A	N1-C6-N6	-9.35	112.99	118.60
26	BB	1988	G	N9-C4-C5	9.35	109.14	105.40
26	BB	2394	C	C6-N1-C2	-9.34	116.56	120.30
1	AA	111	G	C5-C6-N1	9.34	116.17	111.50
1	AA	156	C	O4'-C1'-N1	9.34	115.67	108.20
1	AA	851	G	C5-C6-O6	-9.34	122.99	128.60
26	BB	1201	U	O4'-C1'-N1	9.34	115.67	108.20
1	AA	1489	G	N1-C2-N3	-9.34	118.30	123.90
1	AA	557	G	N1-C2-N3	-9.34	118.30	123.90
1	AA	991	U	C5'-C4'-O4'	9.34	120.31	109.10
1	AA	1024	G	C8-N9-C4	-9.34	102.66	106.40
26	BB	1553	A	N1-C2-N3	-9.34	124.63	129.30
26	BB	2391	G	C8-N9-C4	-9.34	102.66	106.40
1	AA	694	A	C5-C6-N1	9.34	122.37	117.70
2	AB	4	G	C3'-C2'-C1'	9.34	108.97	101.50
5	AE	6	ARG	NE-CZ-NH1	9.34	124.97	120.30
1	AA	148	G	C2-N3-C4	9.34	116.57	111.90
1	AA	765	G	C5-C6-O6	-9.34	123.00	128.60
1	AA	875	U	C3'-C2'-C1'	9.34	108.97	101.50
26	BB	103	A	N9-C4-C5	9.34	109.53	105.80
26	BB	1122	G	P-O3'-C3'	9.34	130.90	119.70
26	BB	1861	G	C4-C5-N7	-9.34	107.07	110.80
26	BB	2295	C	C5-C4-N4	-9.34	113.67	120.20
1	AA	636	U	C3'-C2'-C1'	9.33	108.97	101.50
1	AA	1521	C	O4'-C1'-N1	9.33	115.67	108.20
1	AA	718	A	C4-C5-N7	-9.33	106.03	110.70
26	BB	1645	G	C2-N3-C4	9.33	116.57	111.90
1	AA	79	G	N9-C4-C5	9.33	109.13	105.40
1	AA	1530	G	C6-C5-N7	-9.33	124.80	130.40
26	BB	364	C	N1-C2-O2	9.33	124.50	118.90
26	BB	1283	G	C6-C5-N7	-9.33	124.80	130.40
1	AA	228	A	N9-C4-C5	-9.33	102.07	105.80
1	AA	1278	G	O4'-C4'-C3'	9.33	113.56	106.10
26	BB	98	G	O4'-C1'-N9	9.33	115.66	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	734	G	C2-N3-C4	9.33	116.56	111.90
26	BB	1052	C	C3'-C2'-C1'	9.33	108.96	101.50
26	BB	2210	U	C5-C4-O4	-9.33	120.31	125.90
1	AA	19	A	C5-C6-N1	9.32	122.36	117.70
1	AA	68	G	C5-C6-O6	-9.32	123.00	128.60
1	AA	1399	C	N3-C4-C5	9.32	125.63	121.90
1	AA	1530	G	N1-C2-N3	9.32	129.49	123.90
26	BB	475	C	C6-N1-C2	-9.32	116.57	120.30
26	BB	1004	U	N3-C4-O4	9.32	125.93	119.40
26	BB	2135	A	C4-C5-C6	-9.32	112.34	117.00
1	AA	594	U	O4'-C1'-N1	9.32	115.66	108.20
7	AG	183	ARG	NE-CZ-NH1	9.32	124.96	120.30
25	BA	78	A	C4-C5-N7	9.32	115.36	110.70
1	AA	579	A	N9-C4-C5	9.32	109.53	105.80
26	BB	136	G	O4'-C1'-N9	9.32	115.66	108.20
26	BB	764	A	O4'-C1'-N9	9.32	115.66	108.20
26	BB	1504	A	N1-C2-N3	-9.32	124.64	129.30
1	AA	349	A	N9-C4-C5	-9.32	102.07	105.80
26	BB	110	G	C5-C6-N1	9.32	116.16	111.50
1	AA	186	C	O4'-C1'-N1	9.31	115.65	108.20
1	AA	1532	U	C1'-O4'-C4'	9.31	117.35	109.90
26	BB	615	U	C5'-C4'-O4'	9.31	120.28	109.10
26	BB	647	G	C6-C5-N7	-9.31	124.81	130.40
26	BB	760	G	N9-C4-C5	9.31	109.12	105.40
26	BB	1455	G	C8-N9-C4	-9.31	102.67	106.40
26	BB	1728	C	O4'-C1'-N1	9.31	115.65	108.20
26	BB	1854	A	C4-C5-C6	-9.31	112.34	117.00
1	AA	530	G	N3-C2-N2	-9.31	113.38	119.90
1	AA	1349	A	C5-N7-C8	9.31	108.56	103.90
1	AA	1323	G	N3-C4-C5	-9.31	123.94	128.60
26	BB	432	A	O4'-C1'-N9	9.31	115.65	108.20
26	BB	857	G	O4'-C1'-N9	9.31	115.65	108.20
26	BB	931	U	O4'-C1'-N1	9.31	115.65	108.20
26	BB	2885	G	C4-N9-C1'	-9.31	114.40	126.50
1	AA	291	U	O4'-C1'-N1	9.31	115.65	108.20
1	AA	1041	G	C4-C5-C6	9.31	124.39	118.80
26	BB	1170	C	N1-C2-O2	9.31	124.48	118.90
26	BB	2657	A	C4-C5-N7	9.31	115.35	110.70
1	AA	681	A	C2-N3-C4	9.30	115.25	110.60
1	AA	1434	A	C6-N1-C2	-9.31	113.02	118.60
1	AA	844	G	C5'-C4'-O4'	9.30	120.27	109.10
1	AA	847	G	C5-C6-N1	9.30	116.15	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	396	G	N3-C4-C5	-9.30	123.95	128.60
26	BB	1171	G	C2-N3-C4	-9.31	107.25	111.90
26	BB	1612	C	N3-C4-C5	-9.31	118.18	121.90
1	AA	1388	C	C6-N1-C2	-9.30	116.58	120.30
26	BB	409	G	N7-C8-N9	9.30	117.75	113.10
1	AA	97	G	N3-C4-C5	-9.30	123.95	128.60
1	AA	345	C	N3-C4-N4	9.30	124.51	118.00
1	AA	1379	G	N1-C2-N3	-9.30	118.32	123.90
26	BB	1519	G	N3-C4-C5	-9.30	123.95	128.60
1	AA	1484	C	C6-N1-C2	9.30	124.02	120.30
26	BB	216	A	N1-C2-N3	9.30	133.95	129.30
26	BB	333	G	N3-C4-C5	-9.30	123.95	128.60
26	BB	385	C	C5-C4-N4	-9.30	113.69	120.20
26	BB	1179	G	C5'-C4'-O4'	9.30	120.26	109.10
26	BB	2303	G	C8-N9-C4	-9.30	102.68	106.40
26	BB	2558	C	C6-N1-C2	-9.30	116.58	120.30
26	BB	2104	C	N3-C4-N4	9.30	124.51	118.00
26	BB	2195	U	N3-C4-O4	9.30	125.91	119.40
26	BB	2321	U	N3-C4-O4	9.30	125.91	119.40
1	AA	377	G	N9-C4-C5	9.30	109.12	105.40
1	AA	1063	C	C5-C6-N1	9.30	125.65	121.00
2	AB	39	A	N9-C4-C5	9.30	109.52	105.80
26	BB	725	G	C4-C5-C6	9.30	124.38	118.80
1	AA	540	G	N3-C2-N2	-9.30	113.39	119.90
9	AI	109	ARG	NE-CZ-NH2	-9.30	115.65	120.30
26	BB	649	G	O4'-C1'-N9	9.29	115.64	108.20
26	BB	2535	G	C5-N7-C8	9.29	108.95	104.30
1	AA	581	G	C8-N9-C4	-9.29	102.68	106.40
26	BB	1013	C	N3-C4-C5	9.29	125.62	121.90
26	BB	1333	G	C8-N9-C4	-9.29	102.68	106.40
26	BB	2782	G	C5-N7-C8	-9.29	99.66	104.30
1	AA	1117	A	C5-C6-N1	-9.29	113.06	117.70
26	BB	729	G	C1'-O4'-C4'	-9.29	102.47	109.90
26	BB	1658	C	C2-N3-C4	9.29	124.55	119.90
1	AA	69	G	C5-C6-N1	9.29	116.14	111.50
1	AA	608	A	C5-C6-N6	-9.29	116.27	123.70
1	AA	1253	G	C4-C5-N7	-9.29	107.08	110.80
26	BB	691	C	N3-C2-O2	9.29	128.40	121.90
26	BB	909	A	O4'-C1'-C2'	9.28	115.95	107.60
26	BB	1784	A	C2-N3-C4	9.28	115.24	110.60
26	BB	1800	C	N3-C2-O2	9.28	128.40	121.90
26	BB	2708	G	C2-N3-C4	9.28	116.54	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1289	A	O4'-C1'-N9	9.28	115.63	108.20
26	BB	1020	A	O4'-C1'-N9	9.28	115.63	108.20
1	AA	1335	U	N1-C2-N3	9.28	120.47	114.90
4	AD	53	G	N3-C4-C5	-9.28	123.96	128.60
26	BB	1057	A	N9-C4-C5	-9.28	102.09	105.80
26	BB	1780	A	C8-N9-C4	-9.28	102.09	105.80
26	BB	2178	C	N3-C4-C5	-9.28	118.19	121.90
26	BB	2785	C	C4-C5-C6	9.28	122.04	117.40
26	BB	2829	A	C2-N3-C4	9.28	115.24	110.60
1	AA	41	G	N3-C2-N2	-9.28	113.41	119.90
4	AD	19	G	N3-C4-N9	9.28	131.57	126.00
1	AA	1339	A	N7-C8-N9	-9.28	109.16	113.80
1	AA	832	G	C4-C5-N7	-9.27	107.09	110.80
1	AA	730	G	C2-N3-C4	9.27	116.54	111.90
26	BB	118	A	C5-C6-N1	9.27	122.34	117.70
26	BB	1539	U	N3-C2-O2	-9.27	115.71	122.20
26	BB	205	G	N3-C4-C5	-9.27	123.96	128.60
1	AA	133	U	O4'-C1'-N1	9.27	115.61	108.20
1	AA	769	G	C4'-C3'-C2'	-9.27	93.33	102.60
8	AH	156	ARG	NE-CZ-NH2	-9.27	115.67	120.30
26	BB	1191	G	C8-N9-C4	-9.27	102.69	106.40
26	BB	2872	A	N1-C6-N6	-9.27	113.04	118.60
26	BB	1361	G	C2-N3-C4	9.27	116.53	111.90
26	BB	351	C	N3-C4-C5	-9.27	118.19	121.90
1	AA	1125	U	N1-C2-O2	9.27	129.29	122.80
26	BB	115	C	O4'-C1'-N1	9.27	115.61	108.20
26	BB	1012	U	C2-N3-C4	-9.27	121.44	127.00
26	BB	2032	G	N3-C4-C5	-9.27	123.97	128.60
3	AC	27	A	C8-N9-C4	-9.26	102.09	105.80
26	BB	1591	A	C8-N9-C4	-9.26	102.09	105.80
26	BB	1970	A	C2-N3-C4	9.26	115.23	110.60
26	BB	2012	G	C6-N1-C2	-9.26	119.54	125.10
26	BB	2210	U	C6-N1-C2	9.26	126.56	121.00
26	BB	2232	C	N3-C4-N4	9.26	124.48	118.00
1	AA	1486	G	C5-C6-N1	9.26	116.13	111.50
1	AA	656	G	N1-C2-N3	9.26	129.45	123.90
26	BB	1192	G	C5-C6-N1	-9.26	106.87	111.50
26	BB	2524	G	N7-C8-N9	9.26	117.73	113.10
26	BB	1407	G	N9-C4-C5	9.25	109.10	105.40
1	AA	1470	U	N3-C4-C5	9.25	120.15	114.60
26	BB	2805	C	C4-C5-C6	-9.25	112.77	117.40
1	AA	946	A	C2-N3-C4	9.25	115.22	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	552	U	N3-C2-O2	-9.25	115.73	122.20
2	AB	2	G	N3-C4-C5	-9.25	123.98	128.60
26	BB	629	G	N3-C4-N9	9.25	131.55	126.00
26	BB	1311	G	C3'-C2'-C1'	9.25	108.90	101.50
26	BB	1543	G	N3-C4-C5	-9.25	123.98	128.60
1	AA	517	G	C4-C5-N7	-9.24	107.10	110.80
1	AA	1266	G	C2-N3-C4	9.24	116.52	111.90
1	AA	1517	G	C5'-C4'-O4'	9.24	120.19	109.10
2	AB	70	C	C6-N1-C2	-9.24	116.60	120.30
25	BA	102	G	N9-C4-C5	9.24	109.10	105.40
26	BB	341	C	C5-C4-N4	-9.24	113.73	120.20
26	BB	600	G	C5-C6-O6	-9.24	123.05	128.60
26	BB	1549	A	O4'-C1'-N9	9.24	115.60	108.20
26	BB	1178	C	O4'-C1'-N1	9.24	115.59	108.20
26	BB	2645	G	N1-C6-O6	-9.24	114.35	119.90
36	BL	35	ARG	NE-CZ-NH2	-9.24	115.68	120.30
26	BB	101	A	C2-N3-C4	9.24	115.22	110.60
26	BB	727	A	N7-C8-N9	9.24	118.42	113.80
26	BB	1397	U	C2-N3-C4	9.24	132.54	127.00
26	BB	1729	U	C4'-C3'-C2'	-9.24	93.36	102.60
1	AA	1527	U	O4'-C1'-C2'	-9.24	96.56	105.80
1	AA	90	C	N3-C2-O2	-9.24	115.43	121.90
1	AA	107	G	N7-C8-N9	-9.24	108.48	113.10
1	AA	809	G	O4'-C1'-N9	9.24	115.59	108.20
1	AA	1369	C	N1-C2-O2	9.24	124.44	118.90
26	BB	561	G	O4'-C1'-N9	9.24	115.59	108.20
26	BB	991	C	O4'-C1'-N1	9.24	115.59	108.20
26	BB	1224	U	O4'-C1'-N1	9.24	115.59	108.20
26	BB	2826	A	C5-C6-N1	9.24	122.32	117.70
1	AA	943	U	C1'-O4'-C4'	9.23	117.29	109.90
1	AA	1355	G	C2-N3-C4	9.23	116.52	111.90
26	BB	980	A	N9-C4-C5	9.23	109.49	105.80
26	BB	1028	A	C5-C6-N1	9.23	122.32	117.70
26	BB	1696	G	C8-N9-C4	-9.23	102.71	106.40
26	BB	2700	A	N1-C2-N3	9.23	133.92	129.30
36	BL	34	ARG	NE-CZ-NH1	-9.23	115.68	120.30
1	AA	326	G	C5-C6-O6	9.23	134.14	128.60
1	AA	406	G	C6-C5-N7	-9.23	124.86	130.40
1	AA	500	G	N3-C2-N2	-9.23	113.44	119.90
1	AA	1087	G	N9-C4-C5	-9.23	101.71	105.40
26	BB	291	G	N3-C4-C5	-9.23	123.98	128.60
26	BB	1197	G	C6-C5-N7	-9.23	124.86	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1834	U	O4'-C1'-N1	9.23	115.58	108.20
1	AA	128	G	N3-C4-C5	-9.23	123.99	128.60
2	AB	76	A	C4-C5-C6	-9.23	112.39	117.00
26	BB	1102	C	O4'-C1'-N1	9.23	115.58	108.20
26	BB	1981	A	N1-C2-N3	-9.23	124.69	129.30
1	AA	86	G	O4'-C1'-N9	9.23	115.58	108.20
26	BB	2121	G	C8-N9-C4	-9.23	102.71	106.40
1	AA	1240	U	O4'-C1'-N1	-9.23	100.82	108.20
26	BB	515	A	N9-C4-C5	-9.23	102.11	105.80
39	BO	66	ARG	NE-CZ-NH2	-9.23	115.69	120.30
26	BB	1430	G	N9-C4-C5	9.23	109.09	105.40
26	BB	2232	C	C2-N3-C4	9.23	124.51	119.90
26	BB	2685	G	N9-C4-C5	9.23	109.09	105.40
1	AA	1119	C	C5-C6-N1	-9.22	116.39	121.00
1	AA	593	U	N3-C4-C5	9.22	120.13	114.60
1	AA	1239	A	N1-C2-N3	-9.22	124.69	129.30
3	AC	55	A	C4-C5-N7	-9.22	106.09	110.70
26	BB	643	A	C6-C5-N7	9.22	138.76	132.30
26	BB	1567	G	C8-N9-C4	-9.22	102.71	106.40
26	BB	530	G	C5-C6-O6	9.22	134.13	128.60
26	BB	1841	U	C2-N3-C4	-9.22	121.47	127.00
26	BB	2031	A	N1-C6-N6	9.22	124.13	118.60
4	AD	12	G	N3-C2-N2	-9.22	113.45	119.90
25	BA	47	C	N1-C2-O2	9.22	124.43	118.90
26	BB	331	C	O4'-C1'-N1	9.22	115.58	108.20
1	AA	1008	U	O4'-C1'-N1	9.22	115.57	108.20
18	AR	76	ARG	NE-CZ-NH1	9.22	124.91	120.30
26	BB	318	C	C5-C4-N4	-9.22	113.75	120.20
26	BB	2596	U	N1-C2-N3	9.22	120.43	114.90
26	BB	2854	G	N1-C6-O6	9.22	125.43	119.90
28	BD	181	ARG	NE-CZ-NH1	9.22	124.91	120.30
1	AA	50	A	C8-N9-C4	-9.22	102.11	105.80
1	AA	206	C	N3-C4-C5	-9.22	118.21	121.90
1	AA	690	G	C4-C5-C6	9.22	124.33	118.80
4	AD	5	G	C2-N3-C4	9.21	116.51	111.90
26	BB	736	C	O4'-C1'-N1	9.21	115.57	108.20
26	BB	772	C	C4-C5-C6	-9.21	112.79	117.40
26	BB	842	U	N3-C4-C5	9.22	120.13	114.60
26	BB	981	A	C3'-C2'-C1'	-9.21	94.13	101.50
26	BB	1970	A	C4-C5-N7	-9.21	106.09	110.70
26	BB	2106	U	C5-C6-N1	-9.21	118.09	122.70
26	BB	2356	U	C2-N3-C4	-9.21	121.47	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	678	U	N3-C2-O2	-9.21	115.75	122.20
1	AA	691	G	N9-C1'-C2'	-9.21	101.86	112.00
1	AA	1306	A	C6-C5-N7	9.21	138.75	132.30
3	AC	42	U	O4'-C1'-C2'	-9.21	96.59	105.80
4	AD	38	A	C6-C5-N7	-9.21	125.85	132.30
26	BB	380	G	C6-N1-C2	-9.21	119.57	125.10
26	BB	2459	A	C6-N1-C2	-9.21	113.07	118.60
1	AA	25	C	N1-C2-O2	9.21	124.43	118.90
26	BB	300	A	N7-C8-N9	9.21	118.41	113.80
26	BB	650	C	C6-N1-C2	9.21	123.98	120.30
26	BB	679	C	N3-C2-O2	-9.21	115.45	121.90
26	BB	1876	A	C4-C5-N7	-9.21	106.09	110.70
1	AA	66	A	C5-N7-C8	-9.21	99.30	103.90
1	AA	777	A	C8-N9-C4	-9.21	102.12	105.80
26	BB	1780	A	N1-C6-N6	-9.21	113.08	118.60
1	AA	292	G	C5-C6-N1	9.21	116.10	111.50
1	AA	870	U	O4'-C1'-N1	9.21	115.57	108.20
1	AA	1533	C	N3-C4-C5	-9.21	118.22	121.90
4	AD	35	C	N3-C2-O2	-9.21	115.45	121.90
26	BB	796	C	C2-N3-C4	9.21	124.50	119.90
26	BB	958	U	C4-C5-C6	9.21	125.22	119.70
1	AA	433	G	N7-C8-N9	9.21	117.70	113.10
1	AA	1379	G	N7-C8-N9	9.21	117.70	113.10
26	BB	830	G	C1'-O4'-C4'	9.21	117.26	109.90
26	BB	1221	C	C4-C5-C6	9.21	122.00	117.40
1	AA	722	G	C5-N7-C8	9.20	108.90	104.30
26	BB	2499	C	O4'-C1'-N1	9.20	115.56	108.20
43	BS	47	ARG	NE-CZ-NH2	9.20	124.90	120.30
1	AA	696	A	C2-N3-C4	9.20	115.20	110.60
1	AA	869	G	C4-C5-N7	-9.20	107.12	110.80
1	AA	1005	A	C3'-C2'-C1'	9.20	108.86	101.50
1	AA	1282	C	N3-C4-C5	9.20	125.58	121.90
26	BB	141	G	O4'-C1'-N9	9.20	115.56	108.20
26	BB	932	U	N3-C2-O2	-9.20	115.76	122.20
26	BB	1589	U	C2-N3-C4	-9.20	121.48	127.00
26	BB	1799	G	O4'-C1'-N9	9.20	115.56	108.20
26	BB	2590	A	O4'-C1'-N9	9.20	115.56	108.20
4	AD	46	G	C8-N9-C4	-9.20	102.72	106.40
26	BB	791	C	O4'-C1'-N1	9.20	115.56	108.20
26	BB	1678	A	C8-N9-C4	-9.20	102.12	105.80
1	AA	947	G	C4-C5-N7	-9.19	107.12	110.80
4	AD	38	A	C4-C5-C6	9.20	121.60	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	169	G	N3-C4-C5	-9.19	124.00	128.60
26	BB	609	A	N9-C4-C5	9.19	109.48	105.80
26	BB	933	A	C4-C5-C6	9.19	121.60	117.00
26	BB	1331	G	N1-C2-N3	-9.20	118.38	123.90
26	BB	1664	A	C5-C6-N1	9.19	122.30	117.70
26	BB	2040	G	N3-C4-N9	9.19	131.52	126.00
1	AA	1470	U	O4'-C1'-N1	9.19	115.55	108.20
26	BB	863	A	C8-N9-C4	-9.19	102.12	105.80
26	BB	2356	U	C4-C5-C6	9.19	125.22	119.70
32	BH	108	PHE	CB-CG-CD2	-9.19	114.37	120.80
1	AA	230	G	N1-C6-O6	9.19	125.41	119.90
26	BB	479	A	C4-C5-N7	-9.19	106.11	110.70
26	BB	975	A	C6-C5-N7	-9.19	125.87	132.30
26	BB	1408	G	C4-C5-N7	-9.19	107.13	110.80
26	BB	1914	C	C5-C6-N1	9.19	125.59	121.00
26	BB	2737	G	C4-C5-N7	-9.19	107.12	110.80
1	AA	1287	A	N9-C4-C5	9.18	109.47	105.80
1	AA	627	G	N7-C8-N9	9.18	117.69	113.10
2	AB	41	C	C2-N3-C4	9.18	124.49	119.90
25	BA	114	C	C4-C5-C6	-9.18	112.81	117.40
26	BB	2276	G	C6-N1-C2	-9.18	119.59	125.10
26	BB	2627	G	C1'-O4'-C4'	-9.18	102.55	109.90
26	BB	589	U	C5-C6-N1	-9.18	118.11	122.70
26	BB	2545	G	N1-C2-N3	-9.18	118.39	123.90
26	BB	1423	G	C4'-C3'-C2'	-9.18	93.42	102.60
1	AA	485	U	C5-C6-N1	-9.18	118.11	122.70
26	BB	1398	C	N3-C2-O2	-9.18	115.47	121.90
26	BB	1429	G	C5-C6-N1	9.18	116.09	111.50
26	BB	1804	C	O4'-C1'-N1	9.18	115.54	108.20
1	AA	512	U	N1-C2-N3	9.18	120.41	114.90
1	AA	547	A	O4'-C1'-N9	9.18	115.54	108.20
1	AA	764	C	N1-C2-O2	-9.18	113.39	118.90
26	BB	540	C	O4'-C1'-N1	9.18	115.54	108.20
26	BB	1387	A	C2-N3-C4	9.18	115.19	110.60
26	BB	1435	G	C6-C5-N7	-9.18	124.89	130.40
26	BB	1174	U	N3-C4-C5	-9.18	109.09	114.60
1	AA	537	G	C6-N1-C2	-9.17	119.59	125.10
26	BB	44	A	N9-C1'-C2'	-9.17	101.91	112.00
1	AA	231	U	C4'-C3'-C2'	-9.17	93.43	102.60
26	BB	2628	C	N3-C2-O2	-9.17	115.48	121.90
26	BB	1359	A	C3'-C2'-C1'	9.17	108.83	101.50
26	BB	2323	G	N3-C4-N9	9.17	131.50	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	190	A	C8-N9-C4	-9.17	102.13	105.80
1	AA	690	G	N1-C2-N3	9.17	129.40	123.90
26	BB	1304	A	N9-C4-C5	9.16	109.47	105.80
1	AA	165	G	C6-C5-N7	9.16	135.90	130.40
1	AA	480	U	N3-C4-O4	9.16	125.81	119.40
1	AA	877	G	C4-C5-N7	-9.16	107.14	110.80
1	AA	1020	G	C4'-C3'-C2'	-9.16	93.44	102.60
26	BB	110	G	C4-C5-N7	9.16	114.47	110.80
1	AA	284	C	N3-C4-C5	-9.16	118.24	121.90
26	BB	391	A	N9-C4-C5	-9.16	102.14	105.80
1	AA	886	G	N3-C4-C5	-9.16	124.02	128.60
26	BB	940	G	C4'-C3'-C2'	-9.16	93.44	102.60
26	BB	1393	A	C5'-C4'-O4'	9.16	120.09	109.10
1	AA	678	U	C2-N3-C4	-9.16	121.50	127.00
26	BB	1168	G	C8-N9-C4	9.16	110.06	106.40
25	BA	2	G	C2-N3-C4	9.16	116.48	111.90
26	BB	1435	G	N3-C4-C5	-9.16	124.02	128.60
26	BB	1549	A	C2-N3-C4	9.16	115.18	110.60
26	BB	2020	A	C4-C5-N7	-9.16	106.12	110.70
1	AA	149	A	C3'-C2'-C1'	9.15	108.82	101.50
1	AA	390	U	C2-N3-C4	-9.15	121.51	127.00
26	BB	23	G	C5-C6-O6	9.15	134.09	128.60
26	BB	73	A	N3-C4-N9	9.15	134.72	127.40
1	AA	1318	A	C5'-C4'-O4'	9.15	120.08	109.10
1	AA	1322	C	N3-C4-C5	-9.15	118.24	121.90
26	BB	555	G	C4-C5-N7	-9.15	107.14	110.80
26	BB	1445	G	C4-C5-C6	9.15	124.29	118.80
26	BB	1900	A	C6-N1-C2	-9.15	113.11	118.60
26	BB	1980	G	C5-C6-O6	-9.15	123.11	128.60
26	BB	2428	G	C5-C6-N1	-9.15	106.92	111.50
26	BB	2710	C	C4-C5-C6	-9.15	112.82	117.40
26	BB	822	G	C5-C6-N1	-9.15	106.93	111.50
26	BB	1255	U	C4-C5-C6	9.15	125.19	119.70
26	BB	2223	G	C2-N3-C4	9.15	116.47	111.90
26	BB	2627	G	C5-N7-C8	-9.15	99.73	104.30
1	AA	654	G	C3'-C2'-C1'	-9.15	94.18	101.50
26	BB	80	G	C2-N3-C4	9.15	116.47	111.90
26	BB	1026	G	N1-C2-N3	-9.15	118.41	123.90
26	BB	2246	G	N3-C2-N2	-9.15	113.50	119.90
26	BB	2602	A	C5-C6-N1	9.15	122.27	117.70
1	AA	601	G	C5-C6-N1	9.14	116.07	111.50
1	AA	1158	C	N1-C2-N3	9.14	125.60	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2709	G	O4'-C1'-N9	9.14	115.52	108.20
1	AA	168	G	N3-C4-N9	9.14	131.49	126.00
26	BB	722	A	C8-N9-C4	-9.14	102.14	105.80
1	AA	756	C	O4'-C1'-N1	9.14	115.51	108.20
2	AB	66	C	O4'-C1'-N1	9.14	115.51	108.20
1	AA	445	G	N3-C4-C5	-9.14	124.03	128.60
1	AA	902	G	C5'-C4'-O4'	9.14	120.07	109.10
4	AD	31	G	C4-C5-N7	-9.14	107.14	110.80
26	BB	2576	G	N1-C6-O6	9.14	125.38	119.90
47	BW	5	ARG	NE-CZ-NH2	-9.14	115.73	120.30
13	AM	68	ARG	NE-CZ-NH2	-9.14	115.73	120.30
25	BA	46	A	C1'-O4'-C4'	-9.14	102.59	109.90
26	BB	623	C	N1-C2-N3	-9.14	112.80	119.20
1	AA	903	G	N9-C4-C5	9.13	109.05	105.40
26	BB	271	G	C2-N3-C4	9.14	116.47	111.90
26	BB	966	G	C6-N1-C2	-9.13	119.62	125.10
4	AD	5	G	N1-C2-N3	-9.13	118.42	123.90
26	BB	165	A	C5-N7-C8	-9.13	99.33	103.90
26	BB	1186	G	C2-N3-C4	9.13	116.47	111.90
26	BB	1294	U	O4'-C1'-N1	9.13	115.51	108.20
26	BB	1092	C	C4-C5-C6	9.13	121.97	117.40
26	BB	2639	A	N7-C8-N9	-9.13	109.23	113.80
1	AA	564	C	N3-C4-C5	-9.13	118.25	121.90
25	BA	25	U	P-O3'-C3'	9.13	130.66	119.70
1	AA	99	C	C6-N1-C2	-9.13	116.65	120.30
1	AA	902	G	O4'-C1'-N9	-9.13	100.90	108.20
1	AA	1005	A	C6-N1-C2	-9.13	113.12	118.60
1	AA	1034	G	N1-C6-O6	-9.13	114.42	119.90
2	AB	75	C	C2-N3-C4	9.13	124.46	119.90
4	AD	34	U	C5'-C4'-O4'	9.13	120.05	109.10
26	BB	216	A	C5-N7-C8	9.13	108.46	103.90
26	BB	541	A	C6-C5-N7	9.13	138.69	132.30
26	BB	1289	C	C4-C5-C6	9.13	121.96	117.40
26	BB	1317	G	O4'-C1'-N9	9.13	115.50	108.20
26	BB	1634	A	P-O3'-C3'	9.13	130.65	119.70
4	AD	53	G	N1-C2-N2	9.13	124.41	116.20
26	BB	329	G	N7-C8-N9	9.13	117.66	113.10
26	BB	761	A	C6-N1-C2	-9.12	113.12	118.60
26	BB	1869	G	O4'-C1'-N9	9.13	115.50	108.20
1	AA	771	G	N3-C4-N9	9.12	131.47	126.00
26	BB	980	A	C8-N9-C4	-9.12	102.15	105.80
26	BB	1055	G	C2-N3-C4	9.12	116.46	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1975	G	C5-N7-C8	-9.12	99.74	104.30
26	BB	2071	A	C4-C5-N7	-9.12	106.14	110.70
26	BB	2582	G	O4'-C1'-N9	9.12	115.50	108.20
1	AA	1015	G	C5-C6-N1	9.12	116.06	111.50
26	BB	303	G	C8-N9-C4	-9.12	102.75	106.40
26	BB	1781	U	N3-C2-O2	-9.12	115.82	122.20
1	AA	185	U	C6-N1-C2	9.12	126.47	121.00
1	AA	831	A	C4'-C3'-C2'	-9.12	93.48	102.60
1	AA	972	C	N1-C2-O2	-9.12	113.43	118.90
10	AJ	159	ARG	NE-CZ-NH1	9.12	124.86	120.30
25	BA	75	G	C8-N9-C4	-9.12	102.75	106.40
26	BB	60	G	N7-C8-N9	9.11	117.66	113.10
26	BB	1714	U	N3-C4-O4	9.11	125.78	119.40
26	BB	1907	G	C4-C5-N7	-9.11	107.15	110.80
1	AA	176	C	O4'-C1'-N1	9.11	115.49	108.20
26	BB	547	A	C8-N9-C4	-9.11	102.16	105.80
26	BB	2655	G	C3'-C2'-C1'	-9.11	94.21	101.50
37	BM	30	ARG	NE-CZ-NH2	-9.11	115.75	120.30
42	BR	88	ARG	NE-CZ-NH2	9.11	124.86	120.30
26	BB	1071	G	C2-N3-C4	9.11	116.45	111.90
26	BB	1266	G	C4-C5-N7	-9.11	107.16	110.80
26	BB	1613	G	N3-C4-C5	-9.11	124.05	128.60
26	BB	1664	A	N7-C8-N9	-9.11	109.25	113.80
26	BB	1941	C	N1-C2-O2	9.11	124.36	118.90
26	BB	2222	C	N3-C4-C5	-9.11	118.26	121.90
1	AA	1515	G	O4'-C1'-N9	9.11	115.49	108.20
26	BB	264	C	C2-N3-C4	9.11	124.45	119.90
26	BB	557	C	N3-C4-N4	9.11	124.37	118.00
26	BB	940	G	C8-N9-C4	-9.11	102.76	106.40
26	BB	497	A	N1-C2-N3	-9.10	124.75	129.30
26	BB	1684	G	C5-N7-C8	-9.10	99.75	104.30
26	BB	2609	U	C5-C6-N1	9.10	127.25	122.70
1	AA	118	U	C5-C6-N1	9.10	127.25	122.70
1	AA	346	G	C5-N7-C8	9.10	108.85	104.30
1	AA	1266	G	C8-N9-C4	-9.10	102.76	106.40
2	AB	70	C	C2-N3-C4	9.10	124.45	119.90
26	BB	1166	G	C5-C6-O6	-9.10	123.14	128.60
26	BB	1244	A	C4-C5-N7	9.10	115.25	110.70
26	BB	1380	G	C8-N9-C4	-9.10	102.76	106.40
26	BB	1553	A	C2-N3-C4	9.10	115.15	110.60
25	BA	11	C	C5-C6-N1	9.10	125.55	121.00
25	BA	29	A	C1'-O4'-C4'	9.10	117.18	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	872	A	O4'-C4'-C3'	9.10	113.38	106.10
26	BB	1012	U	O4'-C4'-C3'	9.10	113.38	106.10
26	BB	1027	A	C5-N7-C8	9.10	108.45	103.90
26	BB	1235	G	N1-C6-O6	-9.10	114.44	119.90
26	BB	527	C	N3-C4-N4	9.10	124.37	118.00
1	AA	1197	A	C5-C6-N1	9.10	122.25	117.70
8	AH	53	ARG	NE-CZ-NH1	9.10	124.85	120.30
26	BB	663	G	C5-N7-C8	-9.10	99.75	104.30
1	AA	835	U	C3'-C2'-C1'	9.09	108.78	101.50
1	AA	1211	U	O4'-C1'-N1	9.09	115.47	108.20
26	BB	562	U	O4'-C1'-N1	9.09	115.47	108.20
26	BB	588	U	O4'-C1'-N1	9.09	115.47	108.20
26	BB	1041	G	O4'-C1'-N9	9.09	115.47	108.20
26	BB	1068	G	N3-C4-C5	-9.09	124.05	128.60
26	BB	2686	G	N7-C8-N9	9.09	117.65	113.10
1	AA	831	A	N1-C2-N3	-9.09	124.75	129.30
25	BA	2	G	C6-C5-N7	9.09	135.85	130.40
26	BB	110	G	N7-C8-N9	9.09	117.64	113.10
26	BB	725	G	N3-C4-N9	9.09	131.45	126.00
26	BB	1152	C	N3-C4-N4	9.09	124.36	118.00
26	BB	1748	C	N1-C2-N3	-9.09	112.84	119.20
26	BB	2166	U	O4'-C1'-N1	9.09	115.47	108.20
26	BB	2485	G	C5-C6-N1	9.09	116.05	111.50
26	BB	2764	A	C8-N9-C4	-9.09	102.16	105.80
1	AA	38	G	N9-C4-C5	9.09	109.03	105.40
1	AA	123	U	C5-C4-O4	9.09	131.35	125.90
1	AA	1088	G	O4'-C4'-C3'	9.09	113.37	106.10
1	AA	1225	A	C8-N9-C4	-9.09	102.17	105.80
26	BB	56	A	N1-C6-N6	-9.09	113.15	118.60
26	BB	1477	A	C5'-C4'-O4'	9.09	120.00	109.10
26	BB	1825	U	C4-C5-C6	9.09	125.15	119.70
26	BB	2226	C	N3-C4-C5	9.09	125.53	121.90
26	BB	2282	G	N3-C4-N9	9.09	131.45	126.00
26	BB	2857	G	C6-N1-C2	-9.09	119.65	125.10
26	BB	2340	A	O4'-C1'-N9	9.09	115.47	108.20
1	AA	924	C	N3-C4-C5	9.08	125.53	121.90
1	AA	1311	A	C6-N1-C2	-9.08	113.15	118.60
1	AA	1468	A	C2-N3-C4	-9.08	106.06	110.60
26	BB	8	C	N1-C2-O2	9.08	124.35	118.90
26	BB	1127	A	C5-C6-N6	-9.08	116.43	123.70
26	BB	1682	G	C6-N1-C2	-9.08	119.65	125.10
1	AA	149	A	C4'-C3'-C2'	-9.08	93.52	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	109	C	O4'-C1'-N1	9.08	115.47	108.20
1	AA	115	G	N9-C4-C5	-9.08	101.77	105.40
26	BB	839	U	C3'-C2'-C1'	9.08	108.76	101.50
26	BB	2208	C	N3-C4-N4	9.08	124.36	118.00
26	BB	2755	C	N3-C4-C5	-9.08	118.27	121.90
26	BB	2796	U	C2-N3-C4	-9.08	121.55	127.00
1	AA	1465	A	C1'-O4'-C4'	-9.08	102.64	109.90
26	BB	2053	G	C5'-C4'-O4'	9.08	119.99	109.10
26	BB	2889	C	O4'-C1'-N1	9.08	115.46	108.20
26	BB	1767	G	N3-C2-N2	-9.07	113.55	119.90
26	BB	2524	G	C5-C6-N1	9.07	116.04	111.50
26	BB	2299	U	C5-C6-N1	-9.07	118.17	122.70
26	BB	2557	G	C5-C6-O6	-9.07	123.16	128.60
26	BB	2670	A	C2-N3-C4	9.07	115.14	110.60
42	BR	92	ARG	NE-CZ-NH2	9.07	124.84	120.30
26	BB	2729	G	C5-C6-O6	-9.07	123.16	128.60
1	AA	669	G	N1-C6-O6	-9.07	114.46	119.90
1	AA	1080	A	N7-C8-N9	9.07	118.33	113.80
1	AA	1165	U	C5-C6-N1	-9.07	118.17	122.70
1	AA	1385	G	C6-N1-C2	-9.07	119.66	125.10
4	AD	36	A	C8-N9-C4	9.07	109.43	105.80
26	BB	216	A	C4-C5-N7	-9.07	106.17	110.70
26	BB	298	G	C8-N9-C4	-9.07	102.77	106.40
26	BB	817	C	O4'-C1'-N1	9.07	115.45	108.20
26	BB	1098	A	C4-C5-N7	-9.07	106.17	110.70
26	BB	1211	C	O4'-C1'-N1	9.07	115.45	108.20
26	BB	1326	U	N1-C2-N3	9.07	120.34	114.90
26	BB	2189	U	C3'-C2'-C1'	9.07	108.75	101.50
1	AA	544	G	O4'-C1'-N9	9.06	115.45	108.20
1	AA	1129	C	N3-C2-O2	-9.06	115.56	121.90
1	AA	1180	A	C2-N3-C4	9.06	115.13	110.60
9	AI	38	ARG	NE-CZ-NH1	9.06	124.83	120.30
26	BB	87	U	C5-C4-O4	-9.06	120.46	125.90
26	BB	686	U	C2-N3-C4	9.06	132.44	127.00
26	BB	1265	A	N1-C6-N6	9.06	124.04	118.60
26	BB	1839	G	O4'-C1'-N9	9.06	115.45	108.20
1	AA	376	G	N9-C4-C5	9.06	109.02	105.40
1	AA	460	A	N1-C2-N3	-9.06	124.77	129.30
1	AA	549	C	C6-N1-C2	-9.06	116.68	120.30
26	BB	776	G	C8-N9-C4	-9.06	102.78	106.40
26	BB	915	C	O4'-C1'-N1	9.06	115.45	108.20
26	BB	1011	G	N1-C6-O6	-9.06	114.46	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1810	A	N9-C4-C5	-9.06	102.17	105.80
26	BB	2106	U	O4'-C1'-N1	9.06	115.45	108.20
1	AA	12	U	O4'-C4'-C3'	-9.06	94.94	104.00
1	AA	775	G	O4'-C4'-C3'	9.06	113.35	106.10
1	AA	1397	C	C2-N3-C4	9.06	124.43	119.90
26	BB	531	C	C6-N1-C2	9.06	123.92	120.30
26	BB	2401	U	O4'-C1'-N1	9.06	115.45	108.20
26	BB	578	G	N1-C2-N3	-9.06	118.47	123.90
26	BB	1122	G	C5-N7-C8	9.06	108.83	104.30
26	BB	2074	U	O4'-C1'-N1	9.06	115.45	108.20
26	BB	2583	G	N9-C4-C5	-9.06	101.78	105.40
1	AA	375	U	N3-C2-O2	-9.06	115.86	122.20
4	AD	41	C	C2-N3-C4	9.06	124.43	119.90
26	BB	583	G	C4'-C3'-C2'	-9.06	93.54	102.60
3	AC	21	U	C4-C5-C6	9.05	125.13	119.70
26	BB	650	C	C2-N3-C4	9.05	124.43	119.90
26	BB	884	U	N1-C1'-C2'	-9.05	102.04	112.00
26	BB	1450	G	C5-C6-N1	9.05	116.03	111.50
26	BB	1947	C	N3-C4-C5	9.06	125.52	121.90
26	BB	2759	G	C4-C5-N7	-9.06	107.18	110.80
26	BB	760	G	C5'-C4'-O4'	9.05	119.96	109.10
26	BB	1574	C	N3-C4-N4	9.05	124.34	118.00
26	BB	2311	A	C8-N9-C4	-9.05	102.18	105.80
1	AA	417	G	C1'-O4'-C4'	-9.05	102.66	109.90
1	AA	669	G	C5-C6-N1	9.05	116.03	111.50
1	AA	859	G	N9-C1'-C2'	-9.05	102.04	112.00
3	AC	52	U	C6-N1-C2	-9.05	115.57	121.00
1	AA	1270	G	C4-C5-N7	-9.05	107.18	110.80
26	BB	1294	U	N3-C4-O4	-9.05	113.06	119.40
26	BB	1933	G	O4'-C1'-N9	9.05	115.44	108.20
26	BB	2170	A	N1-C6-N6	-9.05	113.17	118.60
48	BX	9	ARG	NE-CZ-NH2	-9.05	115.77	120.30
1	AA	622	A	C6-N1-C2	9.05	124.03	118.60
1	AA	819	A	C8-N9-C4	-9.05	102.18	105.80
26	BB	1128	G	O4'-C1'-N9	9.05	115.44	108.20
1	AA	1186	G	C4-C5-C6	9.05	124.23	118.80
26	BB	121	G	C5-C6-O6	-9.05	123.17	128.60
26	BB	881	G	N3-C4-C5	-9.05	124.08	128.60
26	BB	2228	G	C5-C6-N1	9.05	116.02	111.50
48	BX	19	ARG	NE-CZ-NH2	9.05	124.82	120.30
2	AB	2	G	C2-N3-C4	9.05	116.42	111.90
26	BB	1597	A	C2-N3-C4	9.05	115.12	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	611	C	C6-N1-C2	-9.04	116.68	120.30
26	BB	1929	G	N9-C4-C5	9.04	109.02	105.40
1	AA	446	G	N1-C6-O6	-9.04	114.47	119.90
1	AA	992	U	C2-N3-C4	-9.04	121.57	127.00
1	AA	665	A	N1-C2-N3	-9.04	124.78	129.30
1	AA	899	C	C5'-C4'-O4'	9.04	119.95	109.10
26	BB	537	G	C6-C5-N7	-9.04	124.97	130.40
26	BB	581	C	N3-C4-C5	-9.04	118.28	121.90
26	BB	1277	G	N9-C4-C5	9.04	109.02	105.40
26	BB	1957	C	N3-C2-O2	-9.04	115.57	121.90
26	BB	2311	A	C5-N7-C8	9.04	108.42	103.90
2	AB	48	U	C5-C6-N1	-9.04	118.18	122.70
1	AA	730	G	O4'-C1'-N9	9.04	115.43	108.20
1	AA	1286	U	P-O3'-C3'	9.04	130.55	119.70
1	AA	1305	G	N7-C8-N9	9.04	117.62	113.10
26	BB	2788	C	C4-C5-C6	-9.04	112.88	117.40
26	BB	845	A	C8-N9-C4	-9.04	102.19	105.80
26	BB	1800	C	N1-C2-N3	-9.04	112.87	119.20
1	AA	584	G	N3-C4-N9	9.04	131.42	126.00
1	AA	723	U	C5-C4-O4	-9.04	120.48	125.90
1	AA	1353	G	C6-N1-C2	-9.04	119.68	125.10
26	BB	2896	C	C2-N3-C4	-9.04	115.38	119.90
26	BB	1165	A	O4'-C1'-N9	9.03	115.43	108.20
26	BB	1685	C	C2-N3-C4	9.03	124.42	119.90
26	BB	2193	G	C2-N3-C4	9.03	116.42	111.90
1	AA	195	A	C5'-C4'-C3'	-9.03	101.55	116.00
1	AA	1004	A	C8-N9-C4	-9.03	102.19	105.80
1	AA	1458	G	C8-N9-C4	-9.03	102.79	106.40
1	AA	1310	G	C5-C6-N1	9.03	116.02	111.50
1	AA	1321	U	C5-C6-N1	-9.03	118.18	122.70
26	BB	541	A	N1-C2-N3	-9.03	124.78	129.30
26	BB	690	G	N9-C1'-C2'	-9.03	102.06	112.00
26	BB	1380	G	C4'-C3'-C2'	-9.03	93.57	102.60
26	BB	718	A	C4'-C3'-C2'	-9.03	93.57	102.60
26	BB	1650	A	N9-C4-C5	9.03	109.41	105.80
26	BB	2391	G	N3-C4-C5	-9.03	124.08	128.60
26	BB	575	A	C5-C6-N6	-9.03	116.48	123.70
1	AA	278	G	N3-C4-C5	-9.03	124.09	128.60
1	AA	1037	C	C4'-C3'-C2'	-9.03	93.57	102.60
26	BB	582	A	C4'-C3'-C2'	-9.03	93.57	102.60
26	BB	704	G	N7-C8-N9	9.03	117.61	113.10
1	AA	464	U	O4'-C4'-C3'	9.03	113.32	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1581	G	N3-C4-C5	-9.03	124.09	128.60
3	AC	29	G	O4'-C1'-N9	9.02	115.42	108.20
26	BB	132	G	N7-C8-N9	9.02	117.61	113.10
26	BB	2432	A	C8-N9-C4	-9.02	102.19	105.80
26	BB	1841	U	N1-C2-N3	9.02	120.31	114.90
1	AA	968	A	C5-C6-N1	9.02	122.21	117.70
1	AA	1195	C	N3-C2-O2	-9.02	115.59	121.90
1	AA	1359	C	C5-C4-N4	-9.02	113.89	120.20
26	BB	24	G	N1-C2-N3	-9.02	118.49	123.90
26	BB	2313	C	C2-N3-C4	9.02	124.41	119.90
1	AA	22	G	C8-N9-C4	-9.02	102.79	106.40
26	BB	504	A	C4'-C3'-C2'	-9.02	93.58	102.60
1	AA	313	A	C6-N1-C2	-9.02	113.19	118.60
1	AA	373	A	O4'-C4'-C3'	-9.02	94.98	104.00
1	AA	568	G	C6-N1-C2	-9.02	119.69	125.10
1	AA	872	A	C8-N9-C4	-9.02	102.19	105.80
26	BB	1283	G	N3-C4-N9	9.02	131.41	126.00
26	BB	2681	C	N3-C4-N4	9.02	124.31	118.00
10	AJ	108	ARG	NE-CZ-NH1	-9.01	115.79	120.30
1	AA	1033	G	N1-C6-O6	9.01	125.31	119.90
25	BA	2	G	C8-N9-C4	-9.01	102.80	106.40
26	BB	423	A	C6-N1-C2	-9.01	113.19	118.60
26	BB	2226	C	O4'-C1'-N1	9.01	115.41	108.20
1	AA	499	A	C1'-O4'-C4'	-9.01	102.69	109.90
1	AA	754	C	N1-C2-O2	9.01	124.31	118.90
1	AA	561	U	C2-N3-C4	-9.01	121.59	127.00
1	AA	716	A	C2-N3-C4	-9.01	106.09	110.60
1	AA	1153	G	N3-C2-N2	-9.01	113.59	119.90
1	AA	1275	A	O4'-C1'-N9	9.01	115.41	108.20
1	AA	1312	G	C6-C5-N7	-9.01	124.99	130.40
26	BB	218	A	C4'-C3'-C2'	-9.01	93.59	102.60
26	BB	1870	C	N3-C2-O2	-9.01	115.59	121.90
49	BY	76	ARG	NH1-CZ-NH2	-9.01	109.49	119.40
51	B0	7	ARG	NE-CZ-NH2	-9.01	115.80	120.30
1	AA	782	A	C3'-C2'-C1'	9.01	108.71	101.50
1	AA	936	C	O4'-C1'-N1	9.01	115.41	108.20
26	BB	795	C	C2-N3-C4	9.01	124.40	119.90
1	AA	986	U	O4'-C1'-N1	9.01	115.40	108.20
26	BB	1093	G	C5-C6-N1	9.01	116.00	111.50
26	BB	2068	U	C5-C4-O4	-9.01	120.50	125.90
26	BB	2308	G	N1-C2-N3	-9.01	118.50	123.90
26	BB	2682	A	N9-C4-C5	9.01	109.40	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2813	A	C5-N7-C8	-9.01	99.40	103.90
1	AA	451	A	N1-C2-N3	-9.00	124.80	129.30
1	AA	977	A	O4'-C1'-N9	9.00	115.40	108.20
26	BB	77	G	C5-N7-C8	-9.00	99.80	104.30
26	BB	637	A	N1-C6-N6	-9.00	113.20	118.60
26	BB	700	G	N9-C4-C5	9.00	109.00	105.40
26	BB	1925	C	N3-C4-C5	-9.00	118.30	121.90
26	BB	2063	C	C4'-C3'-C2'	-9.00	93.60	102.60
26	BB	2246	G	C6-N1-C2	-9.00	119.70	125.10
26	BB	2428	G	C5-C6-O6	9.00	134.00	128.60
26	BB	2649	C	N3-C4-C5	-9.00	118.30	121.90
1	AA	453	G	N3-C4-N9	-9.00	120.60	126.00
2	AB	9	A	N7-C8-N9	-9.00	109.30	113.80
25	BA	2	G	N9-C4-C5	9.00	109.00	105.40
25	BA	98	G	N1-C6-O6	9.00	125.30	119.90
26	BB	138	U	N3-C2-O2	-9.00	115.90	122.20
26	BB	656	G	C8-N9-C4	-9.00	102.80	106.40
26	BB	2302	U	O4'-C1'-N1	9.00	115.40	108.20
26	BB	2509	G	C5-N7-C8	9.00	108.80	104.30
26	BB	2666	C	N3-C2-O2	-9.00	115.60	121.90
26	BB	1114	C	N3-C2-O2	-9.00	115.60	121.90
26	BB	2726	A	N1-C2-N3	-9.00	124.80	129.30
26	BB	2836	U	N3-C2-O2	-9.00	115.90	122.20
1	AA	530	G	C4-C5-N7	-9.00	107.20	110.80
1	AA	847	G	O4'-C1'-N9	9.00	115.40	108.20
1	AA	87	C	O4'-C1'-N1	9.00	115.40	108.20
26	BB	2512	C	C6-N1-C2	-9.00	116.70	120.30
1	AA	806	C	N3-C2-O2	-8.99	115.60	121.90
1	AA	1096	C	O4'-C1'-N1	8.99	115.40	108.20
3	AC	39	U	P-O3'-C3'	8.99	130.50	119.70
1	AA	89	U	C4-C5-C6	8.99	125.09	119.70
1	AA	1448	C	O4'-C1'-N1	8.99	115.39	108.20
26	BB	812	C	N1-C1'-C2'	-8.99	102.11	112.00
26	BB	2057	G	C2-N3-C4	8.99	116.40	111.90
26	BB	2856	A	C8-N9-C4	-8.99	102.20	105.80
26	BB	2869	G	C6-N1-C2	-8.99	119.70	125.10
1	AA	93	U	C2-N3-C4	-8.99	121.61	127.00
1	AA	202	G	O4'-C1'-N9	8.99	115.39	108.20
26	BB	2237	G	C5-C6-O6	8.99	134.00	128.60
2	AB	70	C	N1-C1'-C2'	-8.99	102.11	112.00
10	AJ	25	PHE	CB-CG-CD1	-8.99	114.51	120.80
26	BB	1546	G	C6-N1-C2	-8.99	119.71	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1676	A	C5-C6-N6	-8.99	116.51	123.70
26	BB	1964	G	C6-C5-N7	-8.99	125.01	130.40
26	BB	2443	C	C5'-C4'-O4'	8.99	119.89	109.10
1	AA	326	G	N1-C6-O6	-8.99	114.51	119.90
1	AA	716	A	N1-C6-N6	-8.99	113.21	118.60
2	AB	7	G	C4-C5-N7	-8.99	107.20	110.80
26	BB	1439	A	O4'-C1'-N9	8.99	115.39	108.20
1	AA	230	G	C4-C5-N7	-8.99	107.20	110.80
1	AA	1214	C	N3-C4-C5	-8.99	118.31	121.90
26	BB	725	G	N3-C2-N2	-8.99	113.61	119.90
26	BB	2627	G	N3-C4-C5	-8.99	124.11	128.60
28	BD	101	ARG	NE-CZ-NH2	-8.98	115.81	120.30
1	AA	938	A	O4'-C1'-N9	8.98	115.39	108.20
1	AA	1019	A	O4'-C1'-N9	8.98	115.39	108.20
1	AA	1383	C	N1-C2-O2	8.98	124.29	118.90
26	BB	295	G	C6-N1-C2	-8.98	119.71	125.10
26	BB	1049	C	C5-C6-N1	8.98	125.49	121.00
26	BB	1219	U	C5-C6-N1	-8.98	118.21	122.70
26	BB	1905	C	C1'-O4'-C4'	-8.98	102.71	109.90
26	BB	2411	A	N9-C4-C5	8.98	109.39	105.80
26	BB	2527	C	N3-C4-C5	-8.98	118.31	121.90
26	BB	2592	G	C8-N9-C4	-8.98	102.81	106.40
1	AA	36	C	C5-C4-N4	8.98	126.49	120.20
1	AA	210	C	C2-N3-C4	-8.98	115.41	119.90
1	AA	502	A	N7-C8-N9	8.98	118.29	113.80
1	AA	1205	U	O4'-C1'-N1	8.98	115.39	108.20
26	BB	133	U	O4'-C1'-N1	8.98	115.39	108.20
26	BB	1695	G	O4'-C1'-N9	8.98	115.39	108.20
26	BB	2314	A	N7-C8-N9	-8.98	109.31	113.80
26	BB	2418	A	N3-C4-C5	-8.98	120.51	126.80
26	BB	2567	G	N1-C2-N3	8.98	129.29	123.90
1	AA	247	G	N7-C8-N9	8.98	117.59	113.10
1	AA	444	G	C4-C5-N7	-8.98	107.21	110.80
1	AA	586	C	N1-C2-O2	8.98	124.29	118.90
26	BB	563	A	C4-C5-C6	8.98	121.49	117.00
1	AA	501	C	C4-C5-C6	-8.98	112.91	117.40
1	AA	675	A	C5-N7-C8	-8.98	99.41	103.90
26	BB	2137	U	C2-N3-C4	-8.98	121.61	127.00
1	AA	1339	A	C6-C5-N7	8.98	138.58	132.30
26	BB	1762	A	N9-C4-C5	8.98	109.39	105.80
1	AA	129	A	P-O3'-C3'	8.97	130.47	119.70
1	AA	535	A	C5-C6-N1	-8.97	113.21	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	644	U	O4'-C1'-N1	8.97	115.38	108.20
26	BB	998	C	C5-C4-N4	-8.97	113.92	120.20
26	BB	1006	C	N3-C4-N4	-8.97	111.72	118.00
26	BB	1419	A	C8-N9-C4	8.97	109.39	105.80
26	BB	623	C	N3-C4-N4	8.97	124.28	118.00
26	BB	2156	G	N7-C8-N9	8.97	117.58	113.10
1	AA	298	A	N1-C2-N3	-8.97	124.82	129.30
1	AA	872	A	C1'-O4'-C4'	-8.97	102.73	109.90
3	AC	21	U	N1-C2-N3	8.97	120.28	114.90
26	BB	104	A	C8-N9-C4	8.97	109.39	105.80
26	BB	276	U	O4'-C1'-N1	8.97	115.38	108.20
26	BB	293	U	N3-C4-C5	-8.97	109.22	114.60
26	BB	294	A	O4'-C4'-C3'	-8.97	95.03	104.00
26	BB	410	G	N3-C4-C5	-8.97	124.11	128.60
26	BB	1919	A	C4-C5-C6	-8.97	112.52	117.00
26	BB	2321	U	C4-C5-C6	8.97	125.08	119.70
26	BB	2362	C	C5-C6-N1	8.97	125.48	121.00
1	AA	581	G	N9-C4-C5	8.97	108.99	105.40
1	AA	616	G	C6-N1-C2	-8.96	119.72	125.10
26	BB	905	A	N9-C4-C5	8.97	109.39	105.80
26	BB	1514	G	N1-C6-O6	8.97	125.28	119.90
26	BB	2131	U	N3-C2-O2	-8.97	115.92	122.20
1	AA	1103	C	N3-C2-O2	-8.96	115.62	121.90
26	BB	2386	A	C5-C6-N1	8.96	122.18	117.70
26	BB	416	U	N1-C2-O2	8.96	129.07	122.80
26	BB	531	C	N3-C4-C5	8.96	125.48	121.90
26	BB	846	U	O4'-C1'-N1	8.96	115.37	108.20
26	BB	2452	C	N1-C2-O2	8.96	124.28	118.90
1	AA	652	U	N3-C4-C5	-8.96	109.22	114.60
26	BB	622	G	O4'-C1'-N9	8.96	115.37	108.20
1	AA	682	G	C5'-C4'-O4'	8.96	119.85	109.10
26	BB	1370	C	N3-C4-C5	8.96	125.48	121.90
26	BB	2400	G	N9-C4-C5	-8.96	101.82	105.40
1	AA	788	U	C3'-C2'-C1'	8.96	108.67	101.50
26	BB	447	A	C8-N9-C4	-8.96	102.22	105.80
26	BB	1318	U	N3-C4-O4	8.96	125.67	119.40
26	BB	2652	C	C6-N1-C2	-8.95	116.72	120.30
1	AA	85	U	O4'-C1'-N1	8.95	115.36	108.20
1	AA	354	G	N9-C4-C5	8.95	108.98	105.40
1	AA	758	C	N3-C4-C5	-8.95	118.32	121.90
1	AA	774	G	C6-C5-N7	-8.95	125.03	130.40
3	AC	27	A	N7-C8-N9	8.95	118.28	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	284	U	C5-C4-O4	8.95	131.27	125.90
26	BB	514	A	N1-C2-N3	-8.95	124.83	129.30
26	BB	735	A	C5'-C4'-O4'	8.95	119.84	109.10
26	BB	1682	G	N3-C4-N9	8.95	131.37	126.00
26	BB	1954	G	C8-N9-C4	-8.95	102.82	106.40
26	BB	1973	G	N7-C8-N9	8.95	117.58	113.10
26	BB	2643	G	C4-C5-C6	8.95	124.17	118.80
26	BB	2375	G	C5-N7-C8	8.95	108.78	104.30
1	AA	17	U	C3'-C2'-C1'	8.95	108.66	101.50
1	AA	117	G	N9-C4-C5	8.95	108.98	105.40
1	AA	204	G	N3-C4-C5	-8.95	124.12	128.60
1	AA	247	G	N3-C4-N9	8.95	131.37	126.00
3	AC	37	G	C5-N7-C8	-8.95	99.83	104.30
26	BB	1138	G	C8-N9-C4	-8.95	102.82	106.40
26	BB	2181	U	N3-C2-O2	-8.95	115.94	122.20
26	BB	2330	G	C4-C5-C6	8.95	124.17	118.80
26	BB	2669	G	N3-C4-C5	-8.95	124.13	128.60
1	AA	197	A	N1-C6-N6	-8.95	113.23	118.60
1	AA	303	A	N1-C2-N3	-8.95	124.83	129.30
1	AA	162	A	O4'-C1'-N9	8.95	115.36	108.20
1	AA	310	G	N7-C8-N9	8.95	117.57	113.10
26	BB	252	G	C2-N3-C4	8.95	116.37	111.90
26	BB	916	G	N3-C4-C5	-8.95	124.13	128.60
1	AA	1022	A	N9-C4-C5	8.94	109.38	105.80
1	AA	693	G	N3-C4-C5	-8.94	124.13	128.60
1	AA	542	G	C5-C6-O6	-8.94	123.24	128.60
1	AA	1443	C	N3-C4-C5	-8.94	118.32	121.90
26	BB	101	A	C1'-O4'-C4'	8.94	117.05	109.90
26	BB	2241	A	N1-C2-N3	-8.94	124.83	129.30
1	AA	81	A	C2-N3-C4	8.94	115.07	110.60
26	BB	23	G	P-O3'-C3'	8.94	130.43	119.70
1	AA	928	G	C4-C5-C6	8.94	124.16	118.80
26	BB	910	A	C2-N3-C4	8.94	115.07	110.60
26	BB	948	C	N1-C2-O2	8.94	124.26	118.90
26	BB	1027	A	C4-C5-N7	-8.94	106.23	110.70
26	BB	1499	C	N3-C4-N4	8.94	124.26	118.00
1	AA	10	A	N1-C2-N3	-8.94	124.83	129.30
1	AA	375	U	O4'-C1'-N1	8.94	115.35	108.20
1	AA	1367	C	N1-C2-O2	8.94	124.26	118.90
1	AA	981	U	O4'-C1'-N1	8.94	115.35	108.20
1	AA	1276	G	N9-C1'-C2'	-8.94	102.17	112.00
26	BB	350	G	C2-N3-C4	8.94	116.37	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2268	A	C5-N7-C8	-8.94	99.43	103.90
26	BB	2614	A	C4-C5-C6	-8.94	112.53	117.00
1	AA	514	C	O4'-C1'-N1	8.93	115.35	108.20
1	AA	944	G	N3-C2-N2	8.93	126.15	119.90
26	BB	330	A	C2-N3-C4	8.93	115.07	110.60
26	BB	2371	G	C5-C6-N1	8.93	115.97	111.50
26	BB	548	G	C1'-O4'-C4'	-8.93	102.75	109.90
26	BB	1525	A	C2-N3-C4	8.93	115.07	110.60
26	BB	2749	A	N1-C2-N3	-8.93	124.83	129.30
1	AA	157	U	N3-C4-O4	8.93	125.65	119.40
25	BA	54	G	N9-C4-C5	8.93	108.97	105.40
26	BB	975	A	C4-C5-N7	8.93	115.17	110.70
26	BB	2364	C	O4'-C1'-N1	8.93	115.34	108.20
26	BB	2787	C	C6-N1-C2	-8.93	116.73	120.30
26	BB	119	A	C1'-O4'-C4'	-8.93	102.76	109.90
26	BB	734	A	C8-N9-C4	-8.93	102.23	105.80
26	BB	2406	A	C5-C6-N1	8.93	122.17	117.70
1	AA	185	U	C1'-O4'-C4'	-8.93	102.76	109.90
26	BB	329	G	C5'-C4'-O4'	8.93	119.81	109.10
26	BB	1828	G	O4'-C1'-N9	8.93	115.34	108.20
1	AA	887	G	C6-C5-N7	-8.93	125.05	130.40
26	BB	1599	U	N3-C2-O2	-8.93	115.95	122.20
1	AA	1210	C	N3-C4-C5	-8.92	118.33	121.90
1	AA	1456	A	N1-C2-N3	-8.92	124.84	129.30
26	BB	23	G	C6-N1-C2	-8.92	119.75	125.10
26	BB	1655	A	C8-N9-C4	-8.92	102.23	105.80
26	BB	1841	U	C6-N1-C2	-8.92	115.65	121.00
26	BB	1947	C	N3-C2-O2	-8.92	115.65	121.90
26	BB	2316	G	N9-C4-C5	8.92	108.97	105.40
26	BB	2646	C	C1'-O4'-C4'	8.92	117.04	109.90
26	BB	2847	U	C6-N1-C2	-8.92	115.65	121.00
1	AA	45	G	C4-C5-C6	8.92	124.15	118.80
1	AA	285	C	C5-C4-N4	-8.92	113.95	120.20
26	BB	1138	G	N1-C6-O6	-8.92	114.55	119.90
1	AA	919	A	N1-C6-N6	8.92	123.95	118.60
1	AA	1314	C	O4'-C1'-N1	8.92	115.34	108.20
2	AB	43	G	N7-C8-N9	8.92	117.56	113.10
26	BB	303	G	O4'-C1'-N9	8.92	115.33	108.20
26	BB	352	A	N1-C6-N6	-8.92	113.25	118.60
26	BB	380	G	C5-N7-C8	-8.92	99.84	104.30
26	BB	1396	U	O4'-C1'-N1	8.92	115.34	108.20
26	BB	2584	U	N1-C1'-C2'	-8.92	102.19	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2901	C	C4-C5-C6	8.92	121.86	117.40
26	BB	48	G	C6-C5-N7	-8.92	125.05	130.40
1	AA	1305	G	C5-N7-C8	-8.92	99.84	104.30
1	AA	1334	G	N7-C8-N9	8.92	117.56	113.10
26	BB	697	G	C5-C6-N1	8.92	115.96	111.50
26	BB	836	G	C3'-C2'-C1'	-8.92	94.37	101.50
26	BB	1439	A	C5-N7-C8	-8.92	99.44	103.90
1	AA	53	A	C8-N9-C4	-8.91	102.23	105.80
1	AA	101	A	C5'-C4'-O4'	8.91	119.80	109.10
1	AA	431	A	N9-C1'-C2'	-8.91	102.20	112.00
1	AA	635	A	C6-N1-C2	-8.91	113.25	118.60
1	AA	738	C	C5-C6-N1	8.91	125.46	121.00
1	AA	854	U	N1-C2-N3	8.91	120.25	114.90
26	BB	392	U	N1-C2-N3	8.91	120.25	114.90
26	BB	1292	G	C3'-C2'-C1'	8.91	108.63	101.50
26	BB	2382	G	N7-C8-N9	8.91	117.56	113.10
26	BB	705	A	C8-N9-C4	-8.91	102.24	105.80
26	BB	1261	C	C2-N3-C4	-8.91	115.45	119.90
26	BB	1450	G	C5-C6-O6	-8.91	123.25	128.60
26	BB	1475	G	N3-C4-C5	-8.91	124.14	128.60
26	BB	1703	G	O4'-C1'-N9	8.91	115.33	108.20
1	AA	438	U	C5-C6-N1	-8.91	118.25	122.70
1	AA	1184	G	C4-C5-N7	8.91	114.36	110.80
26	BB	100	U	C2-N3-C4	8.91	132.34	127.00
26	BB	863	A	N7-C8-N9	8.91	118.25	113.80
26	BB	1359	A	C4'-C3'-C2'	-8.91	93.69	102.60
26	BB	1376	C	N3-C4-C5	8.91	125.46	121.90
1	AA	653	U	C1'-O4'-C4'	-8.90	102.78	109.90
1	AA	880	C	C6-N1-C2	8.90	123.86	120.30
1	AA	1503	A	C5-N7-C8	-8.90	99.45	103.90
26	BB	9	G	N3-C2-N2	-8.90	113.67	119.90
26	BB	125	A	N1-C6-N6	-8.90	113.26	118.60
26	BB	539	G	C6-C5-N7	-8.90	125.06	130.40
26	BB	1755	A	N9-C1'-C2'	-8.90	102.20	112.00
26	BB	1847	A	C8-N9-C4	-8.90	102.24	105.80
26	BB	164	C	C5-C6-N1	8.90	125.45	121.00
2	AB	36	A	C5'-C4'-O4'	8.90	119.78	109.10
26	BB	356	G	C3'-C2'-C1'	8.90	108.62	101.50
26	BB	488	G	C3'-C2'-C1'	-8.90	94.38	101.50
26	BB	634	C	O4'-C1'-N1	8.90	115.32	108.20
26	BB	1452	G	C8-N9-C4	-8.90	102.84	106.40
1	AA	191	G	N7-C8-N9	8.90	117.55	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	22	C	C5-C6-N1	8.90	125.45	121.00
26	BB	1258	U	C5-C6-N1	-8.90	118.25	122.70
26	BB	1376	C	C5'-C4'-O4'	-8.90	98.42	109.10
26	BB	1834	U	N3-C4-C5	-8.90	109.26	114.60
39	BO	92	TRP	NE1-CE2-CZ2	8.90	140.19	130.40
1	AA	175	C	O4'-C1'-N1	8.89	115.32	108.20
1	AA	212	G	C4-C5-N7	-8.89	107.24	110.80
1	AA	1153	G	N1-C2-N2	8.89	124.20	116.20
7	AG	62	ARG	NE-CZ-NH1	-8.89	115.85	120.30
26	BB	2220	U	O4'-C1'-N1	8.89	115.32	108.20
26	BB	1691	C	N1-C2-O2	-8.89	113.56	118.90
1	AA	719	C	C5-C6-N1	8.89	125.45	121.00
26	BB	652	U	C5-C6-N1	-8.89	118.25	122.70
26	BB	1254	A	C6-N1-C2	-8.89	113.27	118.60
1	AA	1206	G	N3-C4-C5	-8.89	124.16	128.60
26	BB	1243	C	C4-C5-C6	8.89	121.84	117.40
26	BB	1348	C	N3-C4-C5	-8.89	118.34	121.90
26	BB	2708	G	C4'-C3'-C2'	-8.89	93.71	102.60
26	BB	2106	U	C2-N3-C4	-8.89	121.67	127.00
26	BB	2627	G	N7-C8-N9	8.89	117.55	113.10
9	AI	44	ARG	NE-CZ-NH1	8.89	124.75	120.30
26	BB	533	G	O4'-C1'-N9	8.89	115.31	108.20
26	BB	1263	U	C6-N1-C2	-8.89	115.67	121.00
26	BB	1293	C	N3-C4-C5	8.89	125.45	121.90
26	BB	1091	G	C5-C6-N1	8.89	115.94	111.50
4	AD	35	C	C4-C5-C6	-8.88	112.96	117.40
26	BB	35	G	N1-C2-N3	-8.88	118.57	123.90
26	BB	1753	G	C1'-O4'-C4'	-8.88	102.79	109.90
26	BB	1928	A	O4'-C1'-N9	8.88	115.31	108.20
26	BB	2197	U	C5-C6-N1	8.88	127.14	122.70
1	AA	481	G	N7-C8-N9	8.88	117.54	113.10
1	AA	1031	C	N3-C4-C5	-8.88	118.35	121.90
1	AA	1388	C	C4'-C3'-C2'	-8.88	93.72	102.60
1	AA	1465	A	C4-C5-N7	-8.88	106.26	110.70
26	BB	997	G	C2-N3-C4	8.88	116.34	111.90
26	BB	245	G	C5-C6-N1	-8.88	107.06	111.50
26	BB	893	C	N3-C2-O2	-8.88	115.68	121.90
1	AA	120	A	N9-C4-C5	8.88	109.35	105.80
1	AA	626	G	O4'-C4'-C3'	8.88	113.20	106.10
26	BB	1419	A	C5-N7-C8	8.88	108.34	103.90
26	BB	2648	G	C5-C6-O6	-8.88	123.27	128.60
1	AA	990	C	N3-C4-C5	-8.88	118.35	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	AR	87	ARG	NE-CZ-NH2	-8.88	115.86	120.30
26	BB	2720	U	N3-C2-O2	-8.88	115.99	122.20
1	AA	690	G	N9-C4-C5	8.88	108.95	105.40
26	BB	110	G	C5-N7-C8	-8.88	99.86	104.30
26	BB	130	C	N3-C4-C5	-8.88	118.35	121.90
26	BB	1715	G	C6-C5-N7	-8.88	125.07	130.40
1	AA	880	C	O4'-C1'-N1	8.87	115.30	108.20
1	AA	1345	U	C2-N3-C4	-8.87	121.68	127.00
25	BA	105	G	O4'-C1'-N9	8.87	115.30	108.20
26	BB	659	G	C4'-C3'-C2'	-8.88	93.72	102.60
26	BB	1496	A	C5-C6-N1	8.87	122.14	117.70
1	AA	588	G	N1-C6-O6	-8.87	114.58	119.90
26	BB	160	A	N7-C8-N9	-8.87	109.36	113.80
26	BB	586	A	C3'-C2'-C1'	8.87	108.60	101.50
26	BB	597	G	N3-C2-N2	-8.87	113.69	119.90
26	BB	731	C	P-O3'-C3'	8.87	130.35	119.70
1	AA	750	C	C5-C6-N1	8.87	125.44	121.00
26	BB	1918	A	N7-C8-N9	8.87	118.23	113.80
1	AA	385	C	C6-N1-C2	-8.87	116.75	120.30
1	AA	562	U	O4'-C4'-C3'	8.87	113.19	106.10
1	AA	588	G	O4'-C1'-N9	8.87	115.29	108.20
1	AA	1532	U	N3-C2-O2	-8.87	115.99	122.20
16	AP	106	ARG	NE-CZ-NH1	8.87	124.73	120.30
25	BA	90	C	C4-C5-C6	8.87	121.83	117.40
26	BB	310	A	N1-C2-N3	-8.87	124.87	129.30
26	BB	612	G	C4-C5-C6	8.87	124.12	118.80
26	BB	730	A	C5-C6-N1	8.87	122.13	117.70
26	BB	1150	C	O4'-C1'-N1	8.87	115.29	108.20
26	BB	1337	G	C6-C5-N7	-8.87	125.08	130.40
26	BB	1539	U	O4'-C1'-N1	8.87	115.29	108.20
26	BB	1836	C	C2-N3-C4	8.87	124.33	119.90
26	BB	2210	U	C5-C6-N1	-8.87	118.27	122.70
26	BB	2367	G	N7-C8-N9	8.87	117.53	113.10
1	AA	1201	A	C2'-C3'-O3'	8.87	129.00	109.50
26	BB	822	G	C5'-C4'-C3'	-8.87	101.81	116.00
26	BB	1318	U	O4'-C1'-N1	8.87	115.29	108.20
26	BB	1538	G	N9-C1'-C2'	-8.87	102.25	112.00
49	BY	10	ARG	NE-CZ-NH2	-8.87	115.87	120.30
1	AA	283	U	C4-C5-C6	8.86	125.02	119.70
1	AA	404	G	N3-C2-N2	8.86	126.11	119.90
1	AA	533	A	C1'-O4'-C4'	8.86	116.99	109.90
26	BB	720	U	N3-C4-C5	-8.86	109.28	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1973	G	C4-C5-C6	8.86	124.12	118.80
26	BB	2336	A	C3'-C2'-C1'	-8.87	94.41	101.50
1	AA	203	G	C6-C5-N7	-8.86	125.08	130.40
26	BB	1446	C	N1-C2-O2	8.86	124.22	118.90
1	AA	12	U	O4'-C1'-N1	8.86	115.29	108.20
1	AA	906	A	N7-C8-N9	8.86	118.23	113.80
26	BB	212	G	N7-C8-N9	8.86	117.53	113.10
26	BB	372	G	C2-N3-C4	8.86	116.33	111.90
26	BB	834	G	N1-C2-N2	8.86	124.17	116.20
1	AA	922	G	C6-C5-N7	-8.86	125.08	130.40
24	AX	12	ASP	CB-CG-OD2	-8.86	110.33	118.30
26	BB	599	A	C4'-C3'-C2'	-8.86	93.74	102.60
4	AD	14	A	N1-C2-N3	-8.86	124.87	129.30
26	BB	88	G	O4'-C1'-C2'	8.86	115.57	107.60
26	BB	101	A	N9-C1'-C2'	8.86	125.52	114.00
26	BB	266	G	C5-N7-C8	-8.86	99.87	104.30
26	BB	1006	C	C5'-C4'-O4'	8.86	119.73	109.10
26	BB	674	G	O4'-C1'-N9	8.86	115.29	108.20
26	BB	1179	G	C2-N3-C4	8.86	116.33	111.90
26	BB	2874	C	N1-C2-O2	8.86	124.22	118.90
38	BN	132	ARG	NE-CZ-NH2	8.86	124.73	120.30
1	AA	720	C	C4'-C3'-C2'	-8.86	93.74	102.60
26	BB	325	G	C4-C5-C6	8.86	124.11	118.80
26	BB	2458	G	C8-N9-C4	-8.86	102.86	106.40
26	BB	2550	G	C4-C5-N7	8.86	114.34	110.80
1	AA	470	C	C1'-O4'-C4'	-8.85	102.82	109.90
1	AA	756	C	O4'-C1'-C2'	-8.85	96.95	105.80
1	AA	925	G	N7-C8-N9	8.85	117.53	113.10
26	BB	1652	A	C8-N9-C4	-8.85	102.26	105.80
26	BB	1968	G	C6-C5-N7	-8.85	125.09	130.40
26	BB	2467	C	C6-N1-C2	-8.85	116.76	120.30
26	BB	476	G	N7-C8-N9	8.85	117.52	113.10
26	BB	785	G	N3-C4-N9	8.85	131.31	126.00
26	BB	2190	G	C8-N9-C4	-8.85	102.86	106.40
26	BB	1831	G	C5-N7-C8	-8.85	99.88	104.30
26	BB	1878	G	C4-C5-N7	8.85	114.34	110.80
26	BB	2772	C	N3-C4-C5	-8.85	118.36	121.90
26	BB	188	G	N9-C4-C5	8.85	108.94	105.40
1	AA	207	C	N3-C2-O2	-8.85	115.71	121.90
7	AG	80	ARG	NE-CZ-NH2	8.85	124.72	120.30
26	BB	54	G	C3'-C2'-C1'	8.85	108.58	101.50
26	BB	225	C	C5-C4-N4	-8.85	114.01	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	389	G	N1-C6-O6	-8.85	114.59	119.90
26	BB	1162	G	C8-N9-C4	-8.85	102.86	106.40
26	BB	2238	G	N9-C4-C5	8.85	108.94	105.40
1	AA	971	G	N3-C4-C5	-8.84	124.18	128.60
1	AA	1129	C	N1-C2-O2	8.84	124.21	118.90
1	AA	1265	C	C5-C4-N4	8.84	126.39	120.20
1	AA	584	G	O4'-C1'-N9	8.84	115.27	108.20
26	BB	18	U	C6-N1-C2	-8.84	115.69	121.00
26	BB	335	C	N3-C4-C5	-8.84	118.36	121.90
26	BB	1866	A	C4-C5-N7	-8.84	106.28	110.70
1	AA	57	G	N1-C2-N2	8.84	124.16	116.20
1	AA	405	U	N1-C2-O2	8.84	128.99	122.80
26	BB	2630	G	C6-N1-C2	-8.84	119.80	125.10
1	AA	737	C	C2-N3-C4	8.84	124.32	119.90
4	AD	54	G	N9-C1'-C2'	-8.84	102.28	112.00
1	AA	843	U	C4-C5-C6	8.84	125.00	119.70
26	BB	57	C	N1-C1'-C2'	-8.84	102.28	112.00
26	BB	112	U	C5-C4-O4	-8.84	120.60	125.90
26	BB	177	G	N3-C4-C5	-8.84	124.18	128.60
26	BB	586	A	N9-C4-C5	8.84	109.33	105.80
26	BB	1232	G	N9-C4-C5	-8.84	101.86	105.40
26	BB	2323	G	C5-C6-O6	-8.84	123.30	128.60
26	BB	1663	G	C8-N9-C4	-8.84	102.87	106.40
26	BB	1696	G	C4-C5-N7	-8.84	107.27	110.80
26	BB	2323	G	N7-C8-N9	8.84	117.52	113.10
26	BB	2346	A	C6-C5-N7	-8.84	126.11	132.30
26	BB	2812	G	N3-C4-C5	-8.84	124.18	128.60
26	BB	2350	C	N3-C4-C5	-8.84	118.37	121.90
26	BB	2812	G	C6-N1-C2	-8.84	119.80	125.10
26	BB	2860	A	O4'-C1'-N9	8.84	115.27	108.20
26	BB	2890	G	N9-C4-C5	8.84	108.93	105.40
7	AG	96	ARG	NE-CZ-NH1	-8.83	115.88	120.30
16	AP	100	ARG	NE-CZ-NH2	-8.83	115.88	120.30
26	BB	301	G	N1-C6-O6	-8.83	114.60	119.90
26	BB	610	C	C2-N3-C4	8.83	124.32	119.90
1	AA	49	U	C5-C6-N1	-8.83	118.28	122.70
20	AT	39	ARG	NE-CZ-NH1	8.83	124.72	120.30
26	BB	123	G	N1-C2-N3	-8.83	118.60	123.90
1	AA	139	A	N7-C8-N9	8.83	118.21	113.80
1	AA	194	C	N3-C2-O2	-8.83	115.72	121.90
1	AA	916	U	C6-N1-C2	-8.83	115.70	121.00
1	AA	1293	C	C6-N1-C2	8.83	123.83	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	190	A	C5-N7-C8	8.83	108.31	103.90
26	BB	612	G	N9-C4-C5	8.83	108.93	105.40
26	BB	1110	G	O4'-C1'-N9	8.83	115.26	108.20
26	BB	1196	C	C4'-C3'-C2'	-8.83	93.77	102.60
26	BB	1752	C	C4-C5-C6	8.83	121.81	117.40
26	BB	2578	G	C8-N9-C4	-8.83	102.87	106.40
26	BB	675	A	C1'-O4'-C4'	-8.82	102.84	109.90
1	AA	207	C	C5-C4-N4	-8.82	114.02	120.20
1	AA	419	C	O4'-C1'-N1	8.82	115.26	108.20
1	AA	845	A	C1'-O4'-C4'	-8.82	102.84	109.90
25	BA	113	C	N3-C4-C5	-8.82	118.37	121.90
26	BB	2189	U	N3-C2-O2	-8.82	116.02	122.20
26	BB	2423	U	N3-C4-O4	8.82	125.58	119.40
26	BB	2752	C	C6-N1-C2	-8.82	116.77	120.30
1	AA	41	G	N1-C6-O6	-8.82	114.61	119.90
26	BB	241	A	N1-C2-N3	-8.82	124.89	129.30
26	BB	1418	G	C8-N9-C4	-8.82	102.87	106.40
1	AA	123	U	C6-N1-C2	-8.82	115.71	121.00
1	AA	435	A	O4'-C1'-N9	8.82	115.25	108.20
1	AA	632	U	O4'-C1'-N1	8.82	115.25	108.20
1	AA	652	U	C3'-C2'-C1'	-8.82	94.44	101.50
1	AA	675	A	N7-C8-N9	8.82	118.21	113.80
1	AA	787	A	N1-C6-N6	-8.82	113.31	118.60
4	AD	7	G	N3-C4-C5	-8.82	124.19	128.60
26	BB	684	G	C2-N3-C4	8.82	116.31	111.90
26	BB	956	G	N3-C2-N2	-8.82	113.73	119.90
26	BB	1319	C	C3'-C2'-C1'	8.82	108.56	101.50
1	AA	434	U	C5-C6-N1	-8.82	118.29	122.70
1	AA	1527	U	C5-C4-O4	-8.82	120.61	125.90
1	AA	1504	G	N3-C2-N2	-8.82	113.73	119.90
26	BB	236	C	C3'-C2'-C1'	8.82	108.55	101.50
26	BB	316	C	O4'-C1'-N1	8.82	115.25	108.20
26	BB	389	G	C4-C5-N7	-8.82	107.27	110.80
26	BB	510	C	O5'-P-OP2	-8.82	97.76	105.70
26	BB	625	G	O4'-C1'-N9	8.82	115.25	108.20
26	BB	909	A	C1'-O4'-C4'	-8.82	102.85	109.90
26	BB	1914	C	C4-C5-C6	-8.82	112.99	117.40
26	BB	2525	G	N1-C6-O6	8.82	125.19	119.90
26	BB	1837	C	O4'-C1'-N1	8.82	115.25	108.20
26	BB	313	G	N3-C2-N2	-8.81	113.73	119.90
26	BB	2490	G	C2-N3-C4	8.81	116.31	111.90
26	BB	1460	U	P-O3'-C3'	8.81	130.28	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1924	C	N3-C2-O2	-8.81	115.73	121.90
1	AA	124	C	C6-N1-C2	-8.81	116.78	120.30
1	AA	297	G	O4'-C1'-N9	8.81	115.25	108.20
1	AA	324	G	N1-C6-O6	8.81	125.19	119.90
1	AA	951	G	N3-C2-N2	-8.81	113.73	119.90
26	BB	2276	G	N7-C8-N9	8.81	117.51	113.10
1	AA	1014	A	C3'-C2'-C1'	-8.81	94.45	101.50
26	BB	549	G	N1-C6-O6	-8.81	114.61	119.90
26	BB	1157	G	N1-C6-O6	8.81	125.19	119.90
26	BB	1269	A	N9-C4-C5	8.81	109.32	105.80
26	BB	1577	C	C5-C6-N1	8.81	125.41	121.00
26	BB	2225	A	C2-N3-C4	-8.81	106.19	110.60
26	BB	2277	G	C4-C5-N7	-8.81	107.28	110.80
1	AA	14	U	O4'-C1'-N1	8.81	115.25	108.20
1	AA	423	G	N7-C8-N9	8.81	117.50	113.10
1	AA	1268	G	N3-C4-C5	-8.81	124.20	128.60
3	AC	16	A	C8-N9-C4	-8.81	102.28	105.80
25	BA	3	C	N3-C2-O2	-8.81	115.73	121.90
26	BB	218	A	N1-C6-N6	-8.81	113.31	118.60
26	BB	989	G	C2-N3-C4	8.81	116.30	111.90
26	BB	1156	A	N1-C2-N3	-8.81	124.90	129.30
26	BB	1235	G	N3-C4-C5	-8.81	124.19	128.60
26	BB	2087	G	N3-C2-N2	8.81	126.07	119.90
26	BB	1945	G	C2-N3-C4	8.81	116.30	111.90
1	AA	48	C	C5-C4-N4	-8.80	114.04	120.20
26	BB	595	C	O4'-C1'-N1	8.80	115.24	108.20
26	BB	1468	U	N3-C4-O4	8.80	125.56	119.40
1	AA	589	U	N3-C4-O4	8.80	125.56	119.40
1	AA	802	A	C5-C6-N1	-8.80	113.30	117.70
26	BB	2841	C	O4'-C1'-N1	8.80	115.24	108.20
1	AA	149	A	C8-N9-C4	8.80	109.32	105.80
26	BB	2114	A	O4'-C1'-N9	8.80	115.24	108.20
1	AA	35	G	N1-C6-O6	8.80	125.18	119.90
1	AA	228	A	N1-C6-N6	8.80	123.88	118.60
26	BB	132	G	C6-C5-N7	8.80	135.68	130.40
26	BB	613	A	C5'-C4'-O4'	8.80	119.66	109.10
26	BB	2763	G	C2-N3-C4	8.80	116.30	111.90
26	BB	494	G	C5-C6-O6	-8.80	123.32	128.60
26	BB	1116	G	C4-C5-C6	8.80	124.08	118.80
26	BB	2655	G	C2-N3-C4	8.80	116.30	111.90
26	BB	1913	A	C5'-C4'-O4'	8.80	119.66	109.10
2	AB	10	G	C5-C6-O6	8.80	133.88	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	559	A	C4-C5-N7	-8.79	106.30	110.70
26	BB	861	A	C5-C6-N1	8.79	122.10	117.70
26	BB	2641	G	N1-C2-N2	8.79	124.11	116.20
1	AA	114	U	C5'-C4'-O4'	8.79	119.65	109.10
1	AA	973	G	C2-N3-C4	8.79	116.30	111.90
1	AA	1525	G	N9-C4-C5	8.79	108.92	105.40
26	BB	933	A	N3-C4-C5	-8.79	120.65	126.80
26	BB	2215	C	N1-C2-O2	8.79	124.17	118.90
26	BB	2794	C	N3-C4-N4	8.79	124.15	118.00
26	BB	1230	A	O4'-C1'-N9	8.79	115.23	108.20
26	BB	1893	C	N1-C2-O2	8.79	124.17	118.90
1	AA	683	G	C5-N7-C8	-8.79	99.91	104.30
26	BB	152	A	N1-C6-N6	-8.79	113.33	118.60
26	BB	377	G	N9-C4-C5	8.79	108.92	105.40
26	BB	451	U	C1'-O4'-C4'	-8.79	102.87	109.90
26	BB	1989	G	C6-C5-N7	-8.79	125.13	130.40
1	AA	20	U	N1-C2-O2	8.79	128.95	122.80
1	AA	225	C	C6-N1-C2	-8.79	116.79	120.30
1	AA	324	G	C5-N7-C8	-8.79	99.91	104.30
1	AA	488	C	N3-C4-C5	-8.79	118.39	121.90
1	AA	725	G	N3-C4-N9	-8.79	120.73	126.00
1	AA	884	U	N3-C4-C5	-8.79	109.33	114.60
1	AA	964	A	N7-C8-N9	8.79	118.19	113.80
1	AA	1148	U	C5-C4-O4	-8.79	120.63	125.90
1	AA	1304	G	N3-C4-N9	8.79	131.27	126.00
4	AD	28	U	N1-C2-N3	8.79	120.17	114.90
26	BB	1170	C	C4-C5-C6	8.79	121.79	117.40
26	BB	1524	G	N3-C4-C5	-8.79	124.21	128.60
26	BB	1805	A	N1-C6-N6	-8.79	113.33	118.60
26	BB	1728	C	N3-C4-N4	8.78	124.15	118.00
30	BF	85	PHE	CB-CG-CD2	-8.79	114.65	120.80
1	AA	96	U	C5-C4-O4	8.78	131.17	125.90
1	AA	1085	U	C5-C4-O4	8.78	131.17	125.90
1	AA	1152	A	N9-C4-C5	8.78	109.31	105.80
1	AA	480	U	O4'-C1'-N1	8.78	115.22	108.20
1	AA	1183	U	C2-N3-C4	-8.78	121.73	127.00
1	AA	1306	A	C4-C5-C6	-8.78	112.61	117.00
1	AA	1504	G	N1-C6-O6	-8.78	114.63	119.90
2	AB	15	A	C2-N3-C4	-8.78	106.21	110.60
3	AC	15	G	C5-N7-C8	-8.78	99.91	104.30
21	AU	5	ARG	NE-CZ-NH2	-8.78	115.91	120.30
26	BB	1686	C	N3-C4-C5	8.78	125.41	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2422	C	O4'-C1'-N1	-8.78	101.17	108.20
26	BB	1728	C	C5-C6-N1	8.78	125.39	121.00
41	BQ	36	TYR	CD1-CG-CD2	8.78	127.56	117.90
1	AA	1336	C	O4'-C1'-N1	8.78	115.22	108.20
26	BB	1544	A	C6-N1-C2	8.78	123.87	118.60
26	BB	1395	A	C6-N1-C2	8.78	123.87	118.60
26	BB	1787	A	N3-C4-C5	-8.78	120.66	126.80
26	BB	2365	G	N3-C4-C5	-8.78	124.21	128.60
1	AA	625	U	O4'-C1'-N1	8.78	115.22	108.20
1	AA	1349	A	N1-C6-N6	-8.78	113.33	118.60
3	AC	13	A	C5-C6-N1	8.78	122.09	117.70
26	BB	1418	G	N7-C8-N9	8.78	117.49	113.10
26	BB	2410	G	N3-C4-C5	-8.78	124.21	128.60
26	BB	924	G	C3'-C2'-C1'	8.78	108.52	101.50
26	BB	1189	A	C4-C5-N7	-8.78	106.31	110.70
26	BB	1500	G	N7-C8-N9	8.78	117.49	113.10
26	BB	2610	C	C2-N3-C4	8.78	124.29	119.90
26	BB	2786	U	C5-C6-N1	-8.78	118.31	122.70
1	AA	319	G	N3-C2-N2	-8.77	113.76	119.90
1	AA	350	G	O4'-C1'-N9	8.77	115.22	108.20
1	AA	803	G	N1-C6-O6	8.77	125.17	119.90
25	BA	112	G	C4-C5-N7	-8.77	107.29	110.80
26	BB	398	C	N3-C4-C5	8.77	125.41	121.90
26	BB	614	A	N1-C2-N3	-8.77	124.91	129.30
26	BB	1500	G	N3-C4-C5	-8.77	124.21	128.60
26	BB	2129	C	C5-C6-N1	8.77	125.39	121.00
1	AA	1166	G	N1-C6-O6	-8.77	114.64	119.90
26	BB	1024	G	N9-C4-C5	8.77	108.91	105.40
26	BB	1374	G	C8-N9-C4	-8.77	102.89	106.40
26	BB	1615	C	N1-C2-O2	8.77	124.16	118.90
26	BB	2033	A	O4'-C4'-C3'	8.77	113.12	106.10
26	BB	2167	U	O4'-C1'-N1	8.77	115.22	108.20
1	AA	357	G	N1-C2-N3	-8.77	118.64	123.90
25	BA	116	G	N9-C1'-C2'	-8.77	102.35	112.00
26	BB	1429	G	N3-C2-N2	-8.77	113.76	119.90
26	BB	1942	C	O4'-C1'-N1	8.77	115.21	108.20
26	BB	2248	C	C2-N3-C4	8.77	124.28	119.90
26	BB	2438	U	C6-N1-C2	-8.77	115.74	121.00
1	AA	773	G	C6-N1-C2	-8.77	119.84	125.10
2	AB	43	G	C5-N7-C8	-8.77	99.92	104.30
26	BB	506	G	C6-C5-N7	-8.77	125.14	130.40
1	AA	39	G	N7-C8-N9	8.77	117.48	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	591	U	C5-C4-O4	-8.77	120.64	125.90
26	BB	604	G	N3-C4-C5	-8.77	124.22	128.60
26	BB	1866	A	C5-C6-N6	-8.77	116.69	123.70
26	BB	2204	G	N3-C2-N2	8.77	126.04	119.90
1	AA	667	G	C4-C5-C6	8.76	124.06	118.80
2	AB	35	C	C2-N3-C4	8.76	124.28	119.90
26	BB	1187	G	C4-C5-N7	-8.76	107.30	110.80
26	BB	277	G	N1-C6-O6	8.76	125.16	119.90
26	BB	1580	A	O4'-C1'-N9	8.76	115.21	108.20
26	BB	2538	C	C5-C6-N1	8.76	125.38	121.00
26	BB	2622	U	O4'-C1'-N1	8.76	115.21	108.20
1	AA	750	C	N3-C4-N4	8.76	124.13	118.00
2	AB	57	G	C8-N9-C4	-8.76	102.90	106.40
1	AA	104	G	N3-C4-C5	-8.76	124.22	128.60
26	BB	117	G	C3'-C2'-C1'	8.76	108.51	101.50
26	BB	1355	G	C4-C5-N7	-8.76	107.30	110.80
26	BB	1465	G	O4'-C1'-N9	8.76	115.21	108.20
26	BB	1815	A	C6-C5-N7	8.76	138.43	132.30
26	BB	2531	A	N9-C4-C5	8.76	109.30	105.80
1	AA	335	C	O4'-C1'-N1	-8.76	101.20	108.20
1	AA	1200	C	N3-C4-C5	-8.76	118.40	121.90
26	BB	1022	G	N1-C2-N3	-8.76	118.65	123.90
26	BB	1563	U	C5-C4-O4	-8.76	120.65	125.90
26	BB	2495	G	C4-C5-N7	8.76	114.30	110.80
26	BB	2857	G	C4-C5-C6	8.76	124.05	118.80
1	AA	731	G	C6-C5-N7	-8.75	125.15	130.40
2	AB	70	C	C5-C6-N1	8.75	125.38	121.00
26	BB	94	A	C8-N9-C4	-8.75	102.30	105.80
26	BB	1779	U	C1'-O4'-C4'	-8.75	102.90	109.90
26	BB	2728	U	N1-C1'-C2'	-8.75	102.37	112.00
3	AC	27	A	C5-N7-C8	-8.75	99.52	103.90
26	BB	54	G	O4'-C1'-N9	8.75	115.20	108.20
26	BB	628	G	N7-C8-N9	8.75	117.48	113.10
26	BB	1361	G	N3-C4-C5	-8.75	124.22	128.60
26	BB	1406	U	O4'-C1'-N1	8.75	115.20	108.20
26	BB	1823	G	N1-C2-N3	8.75	129.15	123.90
1	AA	1125	U	C1'-O4'-C4'	-8.75	102.90	109.90
1	AA	1184	G	N3-C4-C5	8.75	132.97	128.60
26	BB	686	U	N1-C2-N3	-8.75	109.65	114.90
26	BB	1169	A	C6-N1-C2	-8.75	113.35	118.60
26	BB	1326	U	N1-C2-O2	-8.75	116.67	122.80
26	BB	1841	U	N3-C2-O2	-8.75	116.08	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1961	C	N3-C4-N4	8.75	124.12	118.00
26	BB	2756	U	N3-C2-O2	-8.75	116.08	122.20
28	BD	68	ARG	NE-CZ-NH1	8.75	124.67	120.30
1	AA	12	U	C1'-O4'-C4'	8.75	116.90	109.90
1	AA	1114	C	C5-C6-N1	-8.75	116.63	121.00
26	BB	1998	A	C5-C6-N1	8.75	122.07	117.70
26	BB	2382	G	N9-C4-C5	8.75	108.90	105.40
1	AA	127	G	N3-C2-N2	-8.74	113.78	119.90
1	AA	381	C	O4'-C1'-N1	8.74	115.20	108.20
26	BB	201	C	C2-N3-C4	8.74	124.27	119.90
26	BB	1764	C	O4'-C1'-N1	8.74	115.19	108.20
26	BB	1862	G	N3-C4-C5	-8.74	124.23	128.60
1	AA	1450	U	O4'-C1'-N1	8.74	115.19	108.20
14	AN	6	ARG	NE-CZ-NH1	8.74	124.67	120.30
26	BB	2175	C	N3-C2-O2	-8.74	115.78	121.90
26	BB	2456	C	C6-N1-C2	-8.74	116.80	120.30
26	BB	2787	C	C5-C6-N1	8.74	125.37	121.00
26	BB	2822	G	O4'-C1'-N9	8.74	115.19	108.20
33	BI	116	ARG	NE-CZ-NH1	8.74	124.67	120.30
1	AA	551	U	N3-C2-O2	-8.74	116.08	122.20
1	AA	1487	G	C2-N3-C4	8.74	116.27	111.90
26	BB	1950	G	N9-C4-C5	8.74	108.90	105.40
26	BB	266	G	C8-N9-C4	-8.74	102.90	106.40
26	BB	1381	G	O4'-C1'-N9	8.74	115.19	108.20
1	AA	771	G	C2-N3-C4	8.74	116.27	111.90
26	BB	1067	A	C4-C5-N7	-8.74	106.33	110.70
1	AA	1176	A	N1-C6-N6	-8.74	113.36	118.60
1	AA	1181	G	N3-C4-N9	8.74	131.24	126.00
26	BB	227	A	C2-N3-C4	8.74	114.97	110.60
26	BB	244	A	C4'-C3'-C2'	-8.74	93.86	102.60
26	BB	250	G	C5-N7-C8	8.74	108.67	104.30
26	BB	843	G	N9-C4-C5	8.74	108.89	105.40
26	BB	2450	A	N7-C8-N9	8.74	118.17	113.80
1	AA	798	U	O4'-C1'-N1	8.73	115.19	108.20
1	AA	1114	C	C5-C4-N4	-8.73	114.09	120.20
1	AA	1302	C	P-O3'-C3'	8.73	130.18	119.70
1	AA	1361	G	N7-C8-N9	8.73	117.47	113.10
5	AE	20	ARG	NE-CZ-NH2	-8.73	115.93	120.30
26	BB	169	G	C2-N3-C4	8.73	116.27	111.90
26	BB	271	G	N7-C8-N9	8.73	117.47	113.10
26	BB	365	U	C4'-C3'-C2'	-8.73	93.87	102.60
26	BB	865	C	N3-C4-N4	8.73	124.11	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1693	U	C2-N3-C4	-8.73	121.76	127.00
26	BB	1919	A	C6-C5-N7	8.73	138.41	132.30
26	BB	2463	C	C6-N1-C2	-8.73	116.81	120.30
1	AA	356	A	C5'-C4'-O4'	8.73	119.58	109.10
1	AA	682	G	N3-C4-N9	8.73	131.24	126.00
26	BB	2236	U	O4'-C1'-N1	8.73	115.19	108.20
1	AA	139	A	C8-N9-C4	-8.73	102.31	105.80
26	BB	342	A	O4'-C1'-N9	8.73	115.19	108.20
26	BB	443	A	O4'-C1'-N9	8.73	115.19	108.20
26	BB	1824	G	C4'-C3'-C2'	-8.73	93.87	102.60
26	BB	2502	G	N7-C8-N9	8.73	117.47	113.10
26	BB	1972	G	C2-N3-C4	8.73	116.27	111.90
26	BB	1985	C	N1-C1'-C2'	-8.73	102.40	112.00
26	BB	2111	U	N3-C4-O4	-8.73	113.29	119.40
1	AA	970	C	C1'-O4'-C4'	-8.73	102.92	109.90
1	AA	402	G	C5-C6-O6	-8.73	123.36	128.60
1	AA	654	G	N3-C2-N2	-8.73	113.79	119.90
26	BB	65	U	N3-C2-O2	-8.73	116.09	122.20
26	BB	1349	C	N1-C2-O2	8.73	124.14	118.90
26	BB	1416	G	N9-C4-C5	8.73	108.89	105.40
26	BB	1771	C	O4'-C1'-N1	8.73	115.18	108.20
26	BB	2602	A	P-O3'-C3'	8.73	130.17	119.70
1	AA	23	C	N3-C4-C5	-8.72	118.41	121.90
1	AA	182	A	N3-C4-N9	-8.72	120.42	127.40
1	AA	454	G	C8-N9-C4	-8.72	102.91	106.40
26	BB	2083	G	C4-C5-N7	8.72	114.29	110.80
1	AA	387	U	O4'-C1'-N1	8.72	115.18	108.20
25	BA	9	G	C2-N3-C4	8.72	116.26	111.90
26	BB	629	G	N9-C1'-C2'	-8.72	102.40	112.00
26	BB	763	G	C8-N9-C1'	8.72	138.34	127.00
26	BB	1259	G	O4'-C1'-N9	8.72	115.18	108.20
26	BB	1570	A	N7-C8-N9	-8.72	109.44	113.80
26	BB	2198	A	C5-N7-C8	8.72	108.26	103.90
26	BB	2279	G	C4'-C3'-C2'	-8.72	93.88	102.60
26	BB	2634	A	C4-C5-C6	-8.72	112.64	117.00
1	AA	290	C	C6-N1-C2	-8.72	116.81	120.30
1	AA	601	G	C2-N3-C4	8.72	116.26	111.90
4	AD	31	G	O4'-C1'-N9	8.72	115.18	108.20
26	BB	558	U	C4-C5-C6	8.72	124.93	119.70
26	BB	1062	G	C1'-O4'-C4'	8.72	116.88	109.90
26	BB	1413	A	C2-N3-C4	8.72	114.96	110.60
26	BB	2348	U	C2-N3-C4	-8.72	121.77	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2396	G	O4'-C1'-N9	8.72	115.18	108.20
26	BB	2839	G	C3'-C2'-C1'	8.72	108.48	101.50
51	B0	23	ARG	NE-CZ-NH2	8.72	124.66	120.30
1	AA	442	G	C8-N9-C4	-8.72	102.91	106.40
25	BA	3	C	N1-C2-O2	8.72	124.13	118.90
26	BB	303	G	N9-C4-C5	8.72	108.89	105.40
26	BB	2260	C	C6-N1-C2	-8.72	116.81	120.30
1	AA	826	C	O4'-C1'-N1	8.71	115.17	108.20
1	AA	1269	A	C8-N9-C4	8.72	109.29	105.80
1	AA	1049	U	C5-C6-N1	-8.71	118.34	122.70
1	AA	1273	C	N1-C2-N3	-8.71	113.10	119.20
25	BA	66	A	P-O3'-C3'	8.72	130.16	119.70
25	BA	44	G	C4-C5-N7	-8.71	107.31	110.80
26	BB	543	G	C8-N9-C4	-8.71	102.91	106.40
26	BB	681	G	N1-C2-N3	-8.71	118.67	123.90
26	BB	1216	G	C8-N9-C4	-8.71	102.91	106.40
26	BB	2569	G	C4-C5-N7	8.71	114.28	110.80
26	BB	2664	G	N3-C2-N2	8.71	126.00	119.90
1	AA	1076	U	C6-N1-C2	-8.71	115.77	121.00
26	BB	247	G	C2-N3-C4	8.71	116.26	111.90
1	AA	688	G	C3'-C2'-C1'	-8.71	94.53	101.50
26	BB	1094	U	O4'-C4'-C3'	8.71	113.07	106.10
26	BB	2145	C	C5-C6-N1	-8.71	116.64	121.00
26	BB	734	A	C6-C5-N7	-8.71	126.20	132.30
26	BB	775	G	N3-C4-N9	8.71	131.23	126.00
26	BB	1524	G	C5-N7-C8	-8.71	99.94	104.30
26	BB	1781	U	N3-C4-C5	-8.71	109.37	114.60
26	BB	2303	G	N3-C4-N9	8.71	131.23	126.00
26	BB	1996	C	C6-N1-C2	-8.71	116.81	120.30
26	BB	2359	C	N1-C2-O2	8.71	124.13	118.90
1	AA	570	G	C5'-C4'-C3'	-8.71	102.07	116.00
1	AA	635	A	C4-C5-C6	-8.71	112.65	117.00
26	BB	363	G	C2-N3-C4	8.71	116.25	111.90
26	BB	678	C	N3-C4-C5	-8.71	118.42	121.90
26	BB	1288	G	C8-N9-C4	-8.71	102.92	106.40
26	BB	2356	U	N3-C4-O4	8.71	125.50	119.40
26	BB	1042	G	O4'-C1'-N9	8.71	115.17	108.20
26	BB	1396	U	N3-C2-O2	-8.71	116.11	122.20
25	BA	117	G	C8-N9-C4	-8.71	102.92	106.40
1	AA	889	A	O4'-C1'-N9	8.70	115.16	108.20
1	AA	1020	G	C5-C6-N1	8.70	115.85	111.50
2	AB	5	G	N9-C4-C5	8.71	108.88	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	375	G	N7-C8-N9	8.71	117.45	113.10
26	BB	428	A	C8-N9-C4	-8.71	102.32	105.80
26	BB	1645	G	C5-N7-C8	-8.71	99.95	104.30
26	BB	1924	C	C4'-C3'-C2'	-8.71	93.89	102.60
26	BB	2038	G	C8-N9-C4	-8.71	102.92	106.40
26	BB	2627	G	C8-N9-C4	-8.70	102.92	106.40
26	BB	454	A	C5-C6-N1	-8.70	113.35	117.70
26	BB	1489	C	C5'-C4'-O4'	8.70	119.54	109.10
26	BB	2374	C	N1-C2-O2	8.70	124.12	118.90
1	AA	288	A	C5'-C4'-O4'	8.70	119.54	109.10
1	AA	583	A	N1-C2-N3	-8.70	124.95	129.30
1	AA	925	G	C2-N3-C4	8.70	116.25	111.90
26	BB	2757	A	C6-N1-C2	8.70	123.82	118.60
26	BB	82	U	C4-C5-C6	8.70	124.92	119.70
26	BB	254	G	C8-N9-C4	-8.70	102.92	106.40
26	BB	1096	A	C4-C5-N7	-8.70	106.35	110.70
26	BB	1353	A	N1-C6-N6	-8.70	113.38	118.60
26	BB	1999	C	O4'-C1'-N1	8.70	115.16	108.20
28	BD	257	ARG	NE-CZ-NH2	-8.70	115.95	120.30
28	BD	257	ARG	NE-CZ-NH1	8.70	124.65	120.30
1	AA	730	G	C8-N9-C4	-8.70	102.92	106.40
26	BB	77	G	N7-C8-N9	8.70	117.45	113.10
26	BB	343	C	O4'-C1'-N1	8.70	115.16	108.20
26	BB	372	G	C5-C6-O6	-8.70	123.38	128.60
1	AA	102	G	N3-C4-C5	-8.69	124.25	128.60
1	AA	600	A	C1'-O4'-C4'	-8.69	102.94	109.90
1	AA	654	G	N3-C4-C5	-8.70	124.25	128.60
1	AA	727	G	N9-C4-C5	8.70	108.88	105.40
26	BB	539	G	C8-N9-C4	-8.69	102.92	106.40
26	BB	694	U	O4'-C1'-N1	8.69	115.16	108.20
26	BB	1216	G	N3-C4-C5	-8.69	124.25	128.60
26	BB	1729	U	C3'-C2'-C1'	8.69	108.45	101.50
1	AA	337	G	C4-C5-N7	-8.69	107.32	110.80
1	AA	850	U	O4'-C1'-N1	8.69	115.15	108.20
1	AA	1201	A	O4'-C1'-N9	8.69	115.15	108.20
1	AA	1459	G	C2-N3-C4	8.69	116.25	111.90
25	BA	26	C	C5-C6-N1	8.69	125.35	121.00
26	BB	438	G	N9-C1'-C2'	-8.69	102.44	112.00
26	BB	979	A	N7-C8-N9	-8.69	109.45	113.80
1	AA	1149	C	O4'-C1'-N1	8.69	115.15	108.20
26	BB	1054	A	C8-N9-C4	-8.69	102.32	105.80
26	BB	1916	A	N7-C8-N9	8.69	118.14	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1964	G	N1-C6-O6	8.69	125.11	119.90
26	BB	219	A	N1-C2-N3	8.69	133.64	129.30
26	BB	509	C	N3-C4-N4	8.69	124.08	118.00
1	AA	115	G	C6-C5-N7	-8.69	125.19	130.40
1	AA	1142	G	C4'-C3'-C2'	-8.69	93.92	102.60
1	AA	1527	U	O4'-C1'-N1	8.69	115.15	108.20
3	AC	20	G	C2-N3-C4	8.69	116.24	111.90
25	BA	7	G	N7-C8-N9	8.69	117.44	113.10
26	BB	1612	C	N3-C2-O2	-8.69	115.82	121.90
26	BB	2349	G	N7-C8-N9	8.69	117.44	113.10
26	BB	966	G	N3-C4-C5	-8.68	124.26	128.60
1	AA	73	C	O4'-C1'-N1	8.68	115.15	108.20
1	AA	517	G	C8-N9-C4	-8.68	102.93	106.40
1	AA	1200	C	C2-N3-C4	8.68	124.24	119.90
1	AA	1369	C	C5-C4-N4	-8.68	114.12	120.20
26	BB	759	G	N3-C4-C5	-8.68	124.26	128.60
26	BB	822	G	C6-C5-N7	-8.68	125.19	130.40
26	BB	1168	G	N7-C8-N9	-8.68	108.76	113.10
26	BB	1850	G	C4-C5-N7	8.68	114.27	110.80
26	BB	2359	C	C2-N3-C4	8.68	124.24	119.90
26	BB	2864	G	C5-N7-C8	8.68	108.64	104.30
26	BB	2127	G	N1-C2-N3	8.68	129.11	123.90
26	BB	443	A	C4'-C3'-C2'	-8.68	93.92	102.60
26	BB	692	C	C2-N3-C4	8.68	124.24	119.90
1	AA	27	G	N3-C4-C5	-8.68	124.26	128.60
26	BB	586	A	C4-C5-N7	-8.68	106.36	110.70
26	BB	1079	C	N3-C4-C5	-8.68	118.43	121.90
26	BB	1088	A	N9-C4-C5	8.68	109.27	105.80
26	BB	1885	A	C4-C5-C6	-8.68	112.66	117.00
1	AA	469	C	N1-C2-O2	8.68	124.11	118.90
1	AA	596	A	N9-C4-C5	-8.68	102.33	105.80
1	AA	615	G	C5-N7-C8	-8.68	99.96	104.30
1	AA	786	G	C8-N9-C4	-8.68	102.93	106.40
26	BB	2469	A	C6-N1-C2	-8.68	113.39	118.60
1	AA	838	G	O4'-C1'-N9	8.68	115.14	108.20
26	BB	1920	C	N3-C4-C5	8.68	125.37	121.90
1	AA	248	C	N3-C4-C5	-8.67	118.43	121.90
1	AA	1070	U	N3-C2-O2	-8.67	116.13	122.20
4	AD	34	U	O4'-C1'-N1	8.67	115.14	108.20
26	BB	14	A	C8-N9-C4	-8.67	102.33	105.80
26	BB	214	G	C4-C5-N7	-8.67	107.33	110.80
26	BB	257	C	N1-C2-O2	8.67	124.10	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	933	A	N1-C6-N6	-8.67	113.40	118.60
26	BB	2035	G	P-O3'-C3'	8.67	130.11	119.70
1	AA	1471	U	N3-C2-O2	-8.67	116.13	122.20
1	AA	1494	G	C2-N3-C4	-8.67	107.56	111.90
26	BB	35	G	C6-C5-N7	-8.67	125.20	130.40
26	BB	788	A	C4-C5-C6	-8.67	112.67	117.00
26	BB	930	G	N9-C4-C5	8.67	108.87	105.40
26	BB	1680	U	N3-C4-C5	8.67	119.80	114.60
26	BB	1958	C	C1'-O4'-C4'	-8.67	102.96	109.90
26	BB	2590	A	C5-C6-N6	8.67	130.64	123.70
26	BB	2855	C	O4'-C1'-N1	8.67	115.14	108.20
1	AA	68	G	N7-C8-N9	8.67	117.43	113.10
26	BB	1473	G	P-O3'-C3'	8.67	130.10	119.70
28	BD	220	ARG	NE-CZ-NH1	8.67	124.63	120.30
1	AA	938	A	C4-C5-N7	-8.67	106.37	110.70
1	AA	991	U	O4'-C1'-N1	8.67	115.13	108.20
26	BB	216	A	C2-N3-C4	-8.67	106.27	110.60
26	BB	614	A	O4'-C1'-N9	8.67	115.13	108.20
26	BB	1777	U	N3-C4-O4	-8.67	113.33	119.40
26	BB	2004	G	C5-C6-O6	-8.67	123.40	128.60
26	BB	2893	A	C5-N7-C8	8.67	108.23	103.90
26	BB	906	U	O4'-C1'-N1	8.67	115.13	108.20
26	BB	1495	A	N1-C6-N6	-8.67	113.40	118.60
26	BB	2579	C	O4'-C1'-N1	8.67	115.13	108.20
1	AA	1502	A	C2-N3-C4	8.66	114.93	110.60
25	BA	93	C	C3'-C2'-C1'	8.66	108.43	101.50
26	BB	421	C	N3-C2-O2	-8.66	115.84	121.90
26	BB	2083	G	C8-N9-C4	-8.66	102.94	106.40
27	BC	53	ARG	NE-CZ-NH1	8.66	124.63	120.30
29	BE	39	ASP	CB-CG-OD2	-8.66	110.50	118.30
26	BB	1071	G	N9-C4-C5	8.66	108.86	105.40
26	BB	1474	U	O4'-C4'-C3'	8.66	113.03	106.10
26	BB	1959	G	N3-C4-N9	8.66	131.20	126.00
26	BB	2453	A	C5'-C4'-O4'	8.66	119.49	109.10
48	BX	79	ARG	NE-CZ-NH2	-8.66	115.97	120.30
1	AA	256	U	C5-C6-N1	-8.66	118.37	122.70
1	AA	1038	C	N3-C4-C5	-8.66	118.44	121.90
1	AA	1294	G	N9-C1'-C2'	-8.66	102.47	112.00
26	BB	68	G	O4'-C1'-N9	8.66	115.13	108.20
26	BB	277	G	O4'-C1'-N9	8.66	115.13	108.20
26	BB	69	C	C4'-C3'-C2'	-8.66	93.94	102.60
26	BB	318	C	N3-C2-O2	-8.66	115.84	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	806	C	C6-N1-C2	8.66	123.76	120.30
26	BB	1307	A	C8-N9-C4	-8.66	102.34	105.80
26	BB	1670	C	N1-C2-O2	8.66	124.10	118.90
26	BB	2071	A	N7-C8-N9	-8.66	109.47	113.80
1	AA	912	C	C6-N1-C2	-8.66	116.84	120.30
3	AC	44	U	C4-C5-C6	8.66	124.89	119.70
26	BB	1537	G	C8-N9-C4	-8.66	102.94	106.40
26	BB	2711	A	N9-C4-C5	8.66	109.26	105.80
26	BB	269	C	O4'-C1'-N1	8.66	115.12	108.20
26	BB	645	C	O4'-C1'-N1	8.66	115.12	108.20
26	BB	2084	C	C2-N3-C4	8.66	124.23	119.90
26	BB	2276	G	O4'-C1'-N9	8.66	115.12	108.20
26	BB	2862	G	O4'-C1'-N9	8.66	115.12	108.20
1	AA	385	C	C5-C6-N1	8.65	125.33	121.00
1	AA	498	A	C2-N3-C4	8.65	114.93	110.60
26	BB	859	G	N7-C8-N9	8.65	117.43	113.10
26	BB	1001	A	C5-N7-C8	8.65	108.23	103.90
26	BB	1339	G	C2-N3-C4	8.65	116.23	111.90
26	BB	1980	G	C2-N3-C4	8.65	116.23	111.90
26	BB	2576	G	C5-C6-O6	-8.65	123.41	128.60
26	BB	2849	U	O4'-C1'-C2'	-8.65	97.15	105.80
1	AA	39	G	N1-C6-O6	-8.65	114.71	119.90
1	AA	327	A	C5-N7-C8	8.65	108.23	103.90
1	AA	1243	C	N3-C2-O2	-8.65	115.84	121.90
26	BB	700	G	C6-N1-C2	-8.65	119.91	125.10
26	BB	557	C	C5-C6-N1	8.65	125.33	121.00
26	BB	807	U	C5-C6-N1	-8.65	118.38	122.70
26	BB	1254	A	C6-C5-N7	8.65	138.36	132.30
26	BB	1738	G	C8-N9-C4	-8.65	102.94	106.40
26	BB	2125	G	C6-N1-C2	-8.65	119.91	125.10
4	AD	64	G	C5-C6-N1	-8.65	107.18	111.50
26	BB	767	U	C5-C4-O4	8.65	131.09	125.90
26	BB	976	G	C4'-C3'-C2'	-8.65	93.95	102.60
26	BB	1838	C	O4'-C1'-N1	8.65	115.12	108.20
26	BB	621	A	C2-N3-C4	8.65	114.92	110.60
26	BB	759	G	O4'-C1'-N9	8.65	115.12	108.20
26	BB	1903	G	N3-C4-C5	-8.65	124.28	128.60
1	AA	456	A	N1-C6-N6	8.64	123.79	118.60
1	AA	451	A	C6-N1-C2	8.64	123.79	118.60
1	AA	491	G	N3-C2-N2	-8.64	113.85	119.90
1	AA	1296	C	C2-N3-C4	8.64	124.22	119.90
26	BB	2406	A	C5-C6-N6	-8.64	116.78	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	982	U	C5-C4-O4	-8.64	120.71	125.90
13	AM	5	ARG	NE-CZ-NH2	-8.64	115.98	120.30
26	BB	61	C	O4'-C1'-N1	8.64	115.12	108.20
26	BB	2456	C	C5-C6-N1	8.64	125.32	121.00
1	AA	148	G	N3-C2-N2	8.64	125.95	119.90
1	AA	1237	C	C4-C5-C6	8.64	121.72	117.40
1	AA	1253	G	C4'-C3'-C2'	-8.64	93.96	102.60
1	AA	1278	G	C1'-O4'-C4'	-8.64	102.99	109.90
26	BB	24	G	C8-N9-C4	-8.64	102.94	106.40
26	BB	469	G	P-O3'-C3'	8.64	130.07	119.70
26	BB	798	G	C8-N9-C4	-8.64	102.94	106.40
26	BB	2158	A	N9-C4-C5	8.64	109.26	105.80
26	BB	1232	G	C4-C5-N7	8.64	114.26	110.80
26	BB	2044	C	C5-C6-N1	8.64	125.32	121.00
26	BB	2839	G	C5-C6-N1	8.64	115.82	111.50
1	AA	683	G	C8-N9-C4	-8.64	102.94	106.40
1	AA	709	U	N1-C2-O2	-8.64	116.75	122.80
1	AA	1257	A	C4-C5-N7	8.64	115.02	110.70
26	BB	2565	A	O4'-C1'-N9	8.64	115.11	108.20
1	AA	1457	G	C5-C6-O6	8.64	133.78	128.60
26	BB	901	C	N3-C4-C5	-8.64	118.44	121.90
26	BB	2816	G	C4-C5-N7	-8.64	107.34	110.80
1	AA	765	G	N3-C4-C5	-8.64	124.28	128.60
26	BB	549	G	C4-C5-N7	8.64	114.25	110.80
26	BB	1062	G	C8-N9-C4	-8.64	102.95	106.40
26	BB	2727	A	O4'-C1'-N9	8.64	115.11	108.20
26	BB	2374	C	N3-C4-N4	-8.63	111.96	118.00
26	BB	2799	A	N1-C6-N6	8.63	123.78	118.60
26	BB	255	A	C3'-C2'-C1'	8.63	108.41	101.50
26	BB	350	G	C4'-C3'-C2'	-8.63	93.97	102.60
26	BB	712	G	C5-C6-N1	-8.63	107.18	111.50
26	BB	1128	G	P-O3'-C3'	8.63	130.06	119.70
26	BB	1255	U	O4'-C1'-N1	8.63	115.11	108.20
26	BB	2402	U	N1-C2-N3	8.63	120.08	114.90
26	BB	2588	G	N1-C2-N2	8.63	123.97	116.20
26	BB	2644	G	C4-C5-C6	8.63	123.98	118.80
1	AA	1181	G	N1-C6-O6	8.63	125.08	119.90
1	AA	1220	G	C5-C6-N1	8.63	115.81	111.50
1	AA	1273	C	N1-C2-O2	8.63	124.08	118.90
1	AA	1486	G	C2-N3-C4	8.63	116.22	111.90
4	AD	76	C	N3-C2-O2	-8.63	115.86	121.90
26	BB	1283	G	N9-C1'-C2'	-8.63	102.51	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1518	C	N3-C2-O2	-8.63	115.86	121.90
26	BB	2094	A	C5-N7-C8	8.63	108.22	103.90
26	BB	2201	G	N1-C6-O6	-8.63	114.72	119.90
26	BB	2628	C	C4-C5-C6	8.63	121.72	117.40
34	BJ	124	ARG	NE-CZ-NH1	8.63	124.61	120.30
1	AA	185	U	C5-C6-N1	-8.63	118.39	122.70
1	AA	217	C	C4-C5-C6	8.63	121.71	117.40
1	AA	656	G	C5-C6-O6	-8.63	123.42	128.60
25	BA	102	G	C3'-C2'-C1'	8.63	108.40	101.50
26	BB	1521	G	N3-C4-N9	8.63	131.18	126.00
26	BB	35	G	C8-N9-C4	-8.63	102.95	106.40
26	BB	1268	A	O4'-C1'-N9	8.63	115.10	108.20
26	BB	2316	G	N7-C8-N9	8.63	117.41	113.10
10	AJ	154	ARG	NE-CZ-NH2	-8.63	115.99	120.30
1	AA	953	G	C2-N3-C4	-8.62	107.59	111.90
1	AA	855	U	C4-C5-C6	8.62	124.87	119.70
1	AA	1321	U	O4'-C1'-N1	8.62	115.10	108.20
1	AA	1484	C	C5-C6-N1	-8.62	116.69	121.00
2	AB	44	G	C8-N9-C4	-8.62	102.95	106.40
26	BB	849	A	O4'-C1'-N9	8.62	115.10	108.20
26	BB	989	G	N3-C4-N9	8.62	131.17	126.00
26	BB	1719	G	C6-N1-C2	-8.62	119.93	125.10
26	BB	2631	G	N9-C4-C5	8.62	108.85	105.40
26	BB	1220	G	C3'-C2'-C1'	-8.62	94.60	101.50
26	BB	1620	G	C2-N3-C4	8.62	116.21	111.90
26	BB	1807	G	C4-C5-C6	8.62	123.97	118.80
26	BB	520	G	C8-N9-C4	-8.62	102.95	106.40
26	BB	952	G	C6-C5-N7	-8.62	125.23	130.40
1	AA	876	C	C2-N3-C4	8.62	124.21	119.90
1	AA	1418	A	O4'-C1'-N9	8.62	115.09	108.20
14	AN	112	VAL	CA-CB-CG2	8.62	123.83	110.90
26	BB	585	G	C5-C6-N1	8.62	115.81	111.50
26	BB	1329	U	O4'-C1'-N1	8.62	115.10	108.20
26	BB	2064	C	N3-C2-O2	-8.62	115.87	121.90
26	BB	1896	G	N3-C4-C5	-8.62	124.29	128.60
1	AA	1517	G	N1-C2-N3	-8.62	118.73	123.90
26	BB	1200	C	N3-C4-N4	-8.61	111.97	118.00
26	BB	2110	G	N9-C1'-C2'	-8.62	102.52	112.00
1	AA	1222	G	C2-N3-C4	8.61	116.21	111.90
1	AA	1316	G	C2-N3-C4	-8.61	107.59	111.90
26	BB	145	C	N3-C4-N4	8.61	124.03	118.00
1	AA	66	A	N9-C4-C5	-8.61	102.36	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1935	G	C5-C6-O6	8.61	133.77	128.60
26	BB	2507	C	C3'-C2'-C1'	8.61	108.39	101.50
26	BB	2557	G	C2-N3-C4	8.61	116.21	111.90
1	AA	920	U	C2-N3-C4	-8.61	121.83	127.00
1	AA	1401	G	O4'-C1'-N9	8.61	115.09	108.20
1	AA	1510	C	O4'-C1'-N1	8.61	115.09	108.20
1	AA	1527	U	C3'-C2'-C1'	8.61	108.39	101.50
3	AC	45	G	O4'-C1'-N9	8.61	115.09	108.20
26	BB	587	C	C5-C6-N1	-8.61	116.70	121.00
26	BB	734	A	C5-C6-N6	8.61	130.59	123.70
26	BB	1400	U	C5-C4-O4	8.61	131.06	125.90
26	BB	1789	A	C5-C6-N1	8.61	122.00	117.70
26	BB	331	C	N3-C2-O2	-8.61	115.88	121.90
1	AA	224	U	N3-C2-O2	-8.61	116.18	122.20
1	AA	791	G	C6-N1-C2	-8.61	119.94	125.10
1	AA	1355	G	C8-N9-C4	-8.61	102.96	106.40
26	BB	1	G	C8-N9-C4	-8.61	102.96	106.40
26	BB	148	U	C2-N3-C4	-8.61	121.84	127.00
26	BB	201	C	N3-C4-N4	8.61	124.02	118.00
26	BB	733	G	N1-C2-N3	-8.61	118.74	123.90
26	BB	1001	A	N9-C4-C5	8.61	109.24	105.80
26	BB	1416	G	N3-C4-C5	-8.61	124.30	128.60
26	BB	1502	A	N7-C8-N9	8.61	118.10	113.80
26	BB	2287	A	N9-C4-C5	8.61	109.24	105.80
26	BB	2820	A	C8-N9-C4	-8.61	102.36	105.80
1	AA	465	A	N7-C8-N9	-8.60	109.50	113.80
26	BB	969	G	N9-C4-C5	8.60	108.84	105.40
26	BB	1845	G	N3-C4-C5	-8.60	124.30	128.60
1	AA	547	A	C1'-O4'-C4'	8.60	116.78	109.90
26	BB	285	G	N9-C4-C5	8.60	108.84	105.40
26	BB	1355	G	N9-C1'-C2'	-8.60	102.54	112.00
26	BB	2398	U	C5'-C4'-C3'	-8.60	102.24	116.00
26	BB	896	A	N9-C4-C5	8.60	109.24	105.80
26	BB	1248	G	C5-N7-C8	-8.60	100.00	104.30
26	BB	1977	A	C8-N9-C4	-8.60	102.36	105.80
26	BB	2560	A	C6-N1-C2	-8.60	113.44	118.60
26	BB	2859	G	N3-C4-C5	-8.60	124.30	128.60
1	AA	43	C	C5-C4-N4	-8.60	114.18	120.20
1	AA	1173	U	C4-C5-C6	8.60	124.86	119.70
1	AA	1304	G	C2-N3-C4	8.60	116.20	111.90
1	AA	1318	A	C2-N3-C4	8.60	114.90	110.60
1	AA	1541	U	N1-C2-O2	8.60	128.82	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	380	G	C4-C5-N7	8.60	114.24	110.80
26	BB	1027	A	N9-C4-C5	8.60	109.24	105.80
26	BB	1421	G	C4-C5-N7	8.60	114.24	110.80
26	BB	1904	G	N3-C2-N2	-8.60	113.88	119.90
26	BB	1958	C	C4-C5-C6	-8.60	113.10	117.40
1	AA	479	U	C2-N3-C4	8.60	132.16	127.00
3	AC	34	U	C2-N3-C4	-8.60	121.84	127.00
30	BF	35	TYR	CB-CG-CD2	-8.60	115.84	121.00
26	BB	1355	G	C8-N9-C4	8.60	109.84	106.40
26	BB	1809	A	N7-C8-N9	8.60	118.10	113.80
26	BB	2690	U	N1-C2-O2	8.60	128.82	122.80
1	AA	1168	U	O4'-C1'-N1	8.59	115.08	108.20
6	AF	41	TYR	CB-CG-CD2	-8.59	115.84	121.00
26	BB	1588	G	N7-C8-N9	8.59	117.40	113.10
26	BB	2416	C	C5-C6-N1	8.59	125.30	121.00
26	BB	280	U	O4'-C1'-N1	8.59	115.07	108.20
26	BB	788	A	O4'-C1'-N9	8.59	115.07	108.20
26	BB	2196	C	C5-C4-N4	-8.59	114.19	120.20
26	BB	2860	A	C8-N9-C4	-8.59	102.36	105.80
26	BB	491	G	C5'-C4'-O4'	8.59	119.41	109.10
26	BB	2401	U	N3-C2-O2	8.59	128.21	122.20
26	BB	2572	A	C1'-O4'-C4'	8.59	116.77	109.90
1	AA	1290	G	C3'-C2'-C1'	-8.59	94.63	101.50
3	AC	49	U	N1-C2-N3	8.59	120.05	114.90
25	BA	82	U	C2-N3-C4	-8.59	121.85	127.00
26	BB	196	A	N1-C2-N3	-8.59	125.01	129.30
26	BB	484	C	N1-C2-O2	8.59	124.05	118.90
26	BB	1234	U	N1-C1'-C2'	-8.59	102.55	112.00
26	BB	1810	A	C4-C5-N7	8.59	114.99	110.70
26	BB	603	A	N9-C4-C5	8.59	109.23	105.80
26	BB	1344	U	C3'-C2'-C1'	-8.59	94.63	101.50
26	BB	1643	G	O4'-C1'-N9	8.59	115.07	108.20
26	BB	1787	A	C4-C5-C6	8.59	121.29	117.00
26	BB	2112	G	C3'-C2'-C1'	-8.59	94.63	101.50
26	BB	2223	G	C5-N7-C8	-8.59	100.01	104.30
26	BB	2282	G	P-O3'-C3'	8.59	130.00	119.70
1	AA	711	G	C8-N9-C4	-8.58	102.97	106.40
1	AA	1072	G	C8-N9-C4	-8.58	102.97	106.40
1	AA	108	G	C1'-O4'-C4'	-8.58	103.03	109.90
1	AA	279	A	C5'-C4'-O4'	8.58	119.40	109.10
1	AA	366	A	N1-C6-N6	-8.58	113.45	118.60
1	AA	885	G	O4'-C1'-N9	8.58	115.07	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	982	U	O4'-C1'-N1	8.58	115.07	108.20
1	AA	1316	G	C8-N9-C4	-8.58	102.97	106.40
26	BB	278	A	C5-N7-C8	-8.58	99.61	103.90
2	AB	35	C	N3-C2-O2	8.58	127.91	121.90
25	BA	86	G	C6-N1-C2	-8.58	119.95	125.10
26	BB	1805	A	N1-C2-N3	8.58	133.59	129.30
26	BB	2013	A	O4'-C1'-N9	8.58	115.07	108.20
26	BB	2453	A	N1-C2-N3	8.58	133.59	129.30
26	BB	680	C	C5'-C4'-O4'	8.58	119.40	109.10
1	AA	346	G	N3-C4-C5	-8.58	124.31	128.60
26	BB	73	A	C8-N9-C4	8.58	109.23	105.80
26	BB	1895	C	C6-N1-C2	-8.58	116.87	120.30
26	BB	1938	A	C5-C6-N6	-8.58	116.84	123.70
26	BB	2520	C	O4'-C1'-N1	8.58	115.06	108.20
26	BB	2602	A	C6-N1-C2	-8.58	113.45	118.60
28	BD	29	PHE	CB-CG-CD2	-8.58	114.79	120.80
1	AA	107	G	C4-C5-C6	8.58	123.95	118.80
1	AA	515	G	N3-C4-C5	-8.58	124.31	128.60
1	AA	897	C	C4'-C3'-C2'	-8.58	94.02	102.60
1	AA	1292	G	C4-C5-N7	8.58	114.23	110.80
26	BB	752	A	N1-C6-N6	8.58	123.75	118.60
26	BB	1051	G	N3-C4-C5	-8.58	124.31	128.60
26	BB	2372	U	C5'-C4'-O4'	8.58	119.39	109.10
1	AA	537	G	C4'-C3'-C2'	-8.57	94.03	102.60
5	AE	89	PHE	CB-CG-CD2	8.57	126.80	120.80
26	BB	2495	G	C6-C5-N7	-8.57	125.25	130.40
26	BB	339	U	C2-N3-C4	-8.57	121.86	127.00
26	BB	897	C	N3-C4-C5	8.57	125.33	121.90
1	AA	188	C	O4'-C1'-N1	8.57	115.06	108.20
3	AC	46	C	N3-C2-O2	-8.57	115.90	121.90
26	BB	952	G	C4-C5-C6	8.57	123.94	118.80
26	BB	1286	A	C8-N9-C4	-8.57	102.37	105.80
1	AA	218	U	C2-N3-C4	-8.57	121.86	127.00
1	AA	586	C	C2-N3-C4	8.57	124.19	119.90
26	BB	274	C	C3'-C2'-C1'	-8.57	94.64	101.50
26	BB	2628	C	N3-C4-C5	-8.57	118.47	121.90
12	AL	118	ARG	NE-CZ-NH1	8.57	124.58	120.30
26	BB	24	G	N1-C6-O6	-8.57	114.76	119.90
26	BB	625	G	C5-C6-O6	8.57	133.74	128.60
26	BB	1964	G	O4'-C1'-C2'	-8.57	97.23	105.80
26	BB	2325	G	N9-C4-C5	8.57	108.83	105.40
1	AA	149	A	C6-N1-C2	-8.57	113.46	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	242	G	C8-N9-C4	-8.57	102.97	106.40
1	AA	1122	U	C4-C5-C6	8.57	124.84	119.70
1	AA	209	U	C6-N1-C2	-8.57	115.86	121.00
1	AA	257	G	C6-N1-C2	-8.57	119.96	125.10
1	AA	362	G	C6-C5-N7	-8.57	125.26	130.40
26	BB	424	G	C2-N3-C4	8.57	116.18	111.90
26	BB	715	A	O4'-C1'-N9	-8.57	101.35	108.20
26	BB	1166	G	C6-N1-C2	-8.57	119.96	125.10
26	BB	1431	A	O5'-P-OP2	-8.57	97.99	105.70
26	BB	2272	U	N1-C2-N3	8.57	120.04	114.90
26	BB	2746	U	N3-C2-O2	-8.57	116.20	122.20
1	AA	713	G	O4'-C1'-N9	8.56	115.05	108.20
1	AA	731	G	P-O3'-C3'	8.56	129.98	119.70
1	AA	785	G	C4-C5-N7	-8.56	107.38	110.80
25	BA	41	G	C5-C6-N1	8.56	115.78	111.50
26	BB	72	U	O4'-C1'-N1	8.56	115.05	108.20
26	BB	174	U	C4-C5-C6	8.56	124.84	119.70
26	BB	295	G	C8-N9-C4	-8.56	102.97	106.40
26	BB	309	A	C5-N7-C8	-8.56	99.62	103.90
26	BB	889	C	O4'-C1'-N1	8.56	115.05	108.20
26	BB	967	U	N3-C4-O4	8.56	125.39	119.40
26	BB	1680	U	N3-C2-O2	-8.56	116.20	122.20
26	BB	1277	G	C2-N3-C4	8.56	116.18	111.90
27	BC	122	ARG	NE-CZ-NH2	-8.56	116.02	120.30
1	AA	164	G	N3-C4-C5	-8.56	124.32	128.60
2	AB	18	G	C5-C6-O6	8.56	133.74	128.60
25	BA	39	A	N1-C2-N3	8.56	133.58	129.30
1	AA	408	A	C8-N9-C4	-8.56	102.38	105.80
26	BB	1381	G	C6-C5-N7	-8.56	125.26	130.40
26	BB	1973	G	C5-N7-C8	-8.56	100.02	104.30
26	BB	1949	G	C5'-C4'-O4'	8.56	119.37	109.10
1	AA	753	A	C5'-C4'-C3'	-8.56	102.31	116.00
26	BB	1967	C	N3-C4-C5	-8.56	118.48	121.90
25	BA	101	A	O4'-C1'-N9	8.56	115.05	108.20
26	BB	974	G	N3-C4-C5	-8.56	124.32	128.60
26	BB	1502	A	C2-N3-C4	8.56	114.88	110.60
26	BB	1152	C	N3-C4-C5	-8.56	118.48	121.90
26	BB	2458	G	O4'-C4'-C3'	8.56	112.95	106.10
1	AA	298	A	N9-C4-C5	8.56	109.22	105.80
1	AA	439	U	N1-C2-N3	8.56	120.03	114.90
1	AA	1363	A	C8-N9-C4	-8.56	102.38	105.80
26	BB	1214	A	O4'-C1'-N9	8.56	115.04	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2004	G	N1-C2-N3	-8.55	118.77	123.90
1	AA	42	G	N1-C6-O6	-8.55	114.77	119.90
1	AA	298	A	C3'-C2'-C1'	8.55	108.34	101.50
1	AA	406	G	C4-C5-C6	8.55	123.93	118.80
26	BB	1382	G	O4'-C1'-N9	8.55	115.04	108.20
1	AA	1276	G	N9-C4-C5	8.55	108.82	105.40
8	AH	40	ASP	CB-CG-OD1	-8.55	110.60	118.30
40	BP	63	ARG	NE-CZ-NH1	8.55	124.58	120.30
26	BB	1644	C	N3-C4-C5	-8.55	118.48	121.90
26	BB	1702	G	C1'-O4'-C4'	-8.55	103.06	109.90
26	BB	2298	A	N9-C4-C5	8.55	109.22	105.80
1	AA	86	G	N9-C4-C5	8.55	108.82	105.40
1	AA	692	U	N3-C4-O4	8.55	125.39	119.40
1	AA	1479	C	C5-C6-N1	8.55	125.28	121.00
26	BB	3	U	C3'-C2'-C1'	8.55	108.34	101.50
26	BB	1429	G	C6-N1-C2	-8.55	119.97	125.10
26	BB	42	A	P-O3'-C3'	8.55	129.96	119.70
26	BB	1417	C	N3-C4-C5	-8.55	118.48	121.90
1	AA	992	U	C5-C4-O4	-8.55	120.77	125.90
3	AC	40	G	C5-N7-C8	-8.55	100.03	104.30
26	BB	288	U	N3-C4-C5	-8.55	109.47	114.60
26	BB	1744	A	C8-N9-C4	-8.55	102.38	105.80
1	AA	1203	C	N3-C4-C5	-8.55	118.48	121.90
26	BB	2454	G	C2-N3-C4	8.55	116.17	111.90
26	BB	2640	G	C6-C5-N7	-8.55	125.27	130.40
26	BB	2846	G	C6-N1-C2	-8.55	119.97	125.10
26	BB	863	A	N3-C4-C5	-8.55	120.82	126.80
1	AA	108	G	C4-C5-N7	-8.54	107.38	110.80
1	AA	1162	C	N3-C4-N4	8.54	123.98	118.00
26	BB	457	A	C4-C5-N7	-8.54	106.43	110.70
26	BB	1786	A	C4-C5-C6	-8.54	112.73	117.00
26	BB	2054	A	C6-N1-C2	-8.54	113.47	118.60
1	AA	301	G	C5-N7-C8	-8.54	100.03	104.30
26	BB	77	G	C6-C5-N7	-8.54	125.27	130.40
1	AA	392	C	N3-C4-C5	-8.54	118.48	121.90
25	BA	20	G	C4-C5-N7	-8.54	107.38	110.80
26	BB	672	C	O4'-C1'-N1	8.54	115.03	108.20
26	BB	1263	U	C5-C4-O4	-8.54	120.77	125.90
26	BB	1732	C	N3-C4-C5	-8.54	118.48	121.90
26	BB	2064	C	N3-C4-C5	8.54	125.32	121.90
26	BB	2387	U	C5-C4-O4	-8.54	120.78	125.90
1	AA	1039	G	N3-C2-N2	-8.54	113.92	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2300	C	N3-C4-C5	-8.54	118.48	121.90
1	AA	2	A	C3'-C2'-C1'	8.54	108.33	101.50
1	AA	1522	U	C4-C5-C6	8.54	124.82	119.70
26	BB	708	G	C4-C5-N7	8.54	114.22	110.80
26	BB	1067	A	N9-C4-C5	8.54	109.22	105.80
26	BB	1850	G	C8-N9-C4	-8.54	102.99	106.40
1	AA	555	U	N3-C4-O4	8.53	125.37	119.40
1	AA	762	U	O4'-C1'-N1	8.53	115.03	108.20
1	AA	1507	A	N7-C8-N9	8.53	118.07	113.80
26	BB	1041	G	N9-C4-C5	8.54	108.81	105.40
26	BB	1285	A	C2-N3-C4	8.54	114.87	110.60
26	BB	2810	A	C2-N3-C4	8.54	114.87	110.60
26	BB	1661	G	O4'-C1'-N9	8.53	115.03	108.20
26	BB	1937	A	C2-N3-C4	-8.54	106.33	110.60
45	BU	88	ARG	NE-CZ-NH2	8.54	124.57	120.30
1	AA	811	C	C5-C4-N4	-8.53	114.23	120.20
25	BA	19	C	N3-C4-C5	-8.53	118.49	121.90
26	BB	1578	U	C4-C5-C6	-8.53	114.58	119.70
1	AA	143	A	C4-C5-C6	-8.53	112.73	117.00
1	AA	1283	U	N1-C2-N3	8.53	120.02	114.90
26	BB	48	G	C5-C6-O6	8.53	133.72	128.60
26	BB	1637	A	C8-N9-C4	-8.53	102.39	105.80
1	AA	79	G	C6-N1-C2	-8.53	119.98	125.10
26	BB	705	A	C6-C5-N7	8.53	138.27	132.30
1	AA	1534	A	C2-N3-C4	8.53	114.86	110.60
26	BB	1750	G	C5-N7-C8	8.53	108.56	104.30
26	BB	2068	U	N3-C4-O4	8.53	125.37	119.40
26	BB	2534	A	C4-C5-N7	-8.53	106.44	110.70
1	AA	117	G	N7-C8-N9	8.53	117.36	113.10
1	AA	1092	A	C5-C6-N1	-8.53	113.44	117.70
1	AA	1186	G	N7-C8-N9	8.53	117.36	113.10
1	AA	1482	G	C5-N7-C8	8.53	108.56	104.30
26	BB	1133	A	N1-C2-N3	-8.53	125.04	129.30
26	BB	1964	G	C4'-C3'-C2'	-8.53	94.07	102.60
1	AA	1254	A	P-O3'-C3'	8.52	129.93	119.70
26	BB	175	G	N3-C4-C5	-8.52	124.34	128.60
26	BB	940	G	C5-C6-N1	8.52	115.76	111.50
1	AA	322	C	N3-C4-N4	8.52	123.97	118.00
1	AA	669	G	C4-C5-N7	8.52	114.21	110.80
1	AA	918	A	C5-N7-C8	8.52	108.16	103.90
26	BB	290	U	O4'-C1'-N1	8.52	115.02	108.20
26	BB	2014	A	N1-C6-N6	8.52	123.71	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2868	A	N1-C6-N6	-8.52	113.48	118.60
1	AA	795	C	C5-C4-N4	8.52	126.17	120.20
26	BB	23	G	N3-C4-C5	-8.52	124.34	128.60
26	BB	37	C	C6-N1-C2	-8.52	116.89	120.30
26	BB	735	A	C4'-C3'-C2'	-8.52	94.08	102.60
26	BB	2141	G	N9-C1'-C2'	-8.52	102.63	112.00
26	BB	1649	G	N3-C4-C5	8.52	132.86	128.60
1	AA	1062	U	N3-C2-O2	-8.52	116.24	122.20
26	BB	499	U	O4'-C1'-N1	8.52	115.01	108.20
26	BB	2217	G	C2-N3-C4	8.52	116.16	111.90
26	BB	2800	A	C2-N3-C4	-8.52	106.34	110.60
1	AA	491	G	N1-C2-N2	8.52	123.86	116.20
1	AA	601	G	N1-C6-O6	-8.52	114.79	119.90
1	AA	1323	G	C5-C6-N1	8.52	115.76	111.50
4	AD	68	C	N3-C4-N4	8.52	123.96	118.00
25	BA	102	G	C4-C5-N7	-8.52	107.39	110.80
26	BB	332	A	C4-C5-C6	8.52	121.26	117.00
26	BB	1033	U	C5-C4-O4	-8.52	120.79	125.90
26	BB	1429	G	C2-N3-C4	8.52	116.16	111.90
26	BB	1850	G	O4'-C1'-N9	8.52	115.01	108.20
1	AA	893	C	C4-C5-C6	-8.51	113.14	117.40
1	AA	922	G	C4-C5-C6	8.51	123.91	118.80
26	BB	1415	U	C6-N1-C2	-8.51	115.89	121.00
26	BB	2138	G	C8-N9-C4	-8.51	103.00	106.40
26	BB	2625	G	N3-C4-C5	-8.51	124.34	128.60
1	AA	172	A	C8-N9-C4	-8.51	102.39	105.80
26	BB	824	U	C4'-C3'-C2'	-8.51	94.09	102.60
26	BB	1026	G	N3-C4-N9	8.51	131.11	126.00
26	BB	1567	G	C3'-C2'-C1'	-8.51	94.69	101.50
26	BB	1638	C	O4'-C1'-N1	8.51	115.01	108.20
1	AA	1431	A	C3'-C2'-C1'	8.51	108.31	101.50
26	BB	729	G	C4-C5-C6	8.51	123.91	118.80
26	BB	1265	A	C5-C6-N6	-8.51	116.89	123.70
26	BB	1502	A	N9-C4-C5	8.51	109.20	105.80
26	BB	1540	G	C5-C6-O6	-8.51	123.49	128.60
26	BB	1704	C	N1-C2-N3	8.51	125.16	119.20
38	BN	66	PHE	CB-CG-CD1	-8.51	114.84	120.80
1	AA	981	U	C5-C6-N1	-8.51	118.45	122.70
25	BA	55	U	N3-C2-O2	-8.51	116.25	122.20
25	BA	19	C	N3-C4-N4	8.51	123.95	118.00
26	BB	210	C	C5-C6-N1	8.51	125.25	121.00
26	BB	1768	C	O4'-C1'-N1	8.51	115.00	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	BT	83	TYR	CB-CG-CD2	-8.51	115.90	121.00
1	AA	529	G	N1-C6-O6	8.50	125.00	119.90
1	AA	536	C	N3-C4-C5	8.50	125.30	121.90
26	BB	547	A	C5-N7-C8	-8.50	99.65	103.90
1	AA	224	U	C2-N3-C4	-8.50	121.90	127.00
1	AA	1161	C	N3-C4-C5	8.50	125.30	121.90
26	BB	3	U	C4-C5-C6	8.50	124.80	119.70
26	BB	469	G	C4-C5-C6	8.50	123.90	118.80
26	BB	488	G	C5-C6-O6	-8.50	123.50	128.60
26	BB	829	A	O4'-C4'-C3'	8.50	112.90	106.10
26	BB	1392	A	N1-C6-N6	-8.50	113.50	118.60
26	BB	2502	G	C8-N9-C4	-8.50	103.00	106.40
26	BB	1639	C	C2-N3-C4	8.50	124.15	119.90
26	BB	2154	A	C1'-O4'-C4'	-8.50	103.10	109.90
1	AA	765	G	C8-N9-C4	8.50	109.80	106.40
1	AA	1079	G	C1'-O4'-C4'	8.50	116.70	109.90
1	AA	1148	U	N3-C2-O2	-8.50	116.25	122.20
3	AC	56	G	N1-C6-O6	-8.50	114.80	119.90
26	BB	830	G	C5'-C4'-O4'	-8.50	98.90	109.10
26	BB	1354	A	N1-C6-N6	8.50	123.70	118.60
26	BB	2638	G	C5-N7-C8	8.50	108.55	104.30
26	BB	1914	C	O4'-C1'-N1	8.50	115.00	108.20
26	BB	2429	G	C6-N1-C2	-8.50	120.00	125.10
1	AA	63	C	N3-C2-O2	-8.50	115.95	121.90
1	AA	744	C	C3'-C2'-C1'	-8.50	94.70	101.50
1	AA	960	U	P-O3'-C3'	8.50	129.90	119.70
1	AA	1159	U	C6-N1-C2	8.50	126.10	121.00
1	AA	1233	G	N1-C2-N2	8.50	123.85	116.20
26	BB	1012	U	C1'-O4'-C4'	-8.50	103.10	109.90
26	BB	1304	A	C8-N9-C4	-8.50	102.40	105.80
26	BB	1449	G	C8-N9-C4	-8.50	103.00	106.40
29	BE	59	ARG	NE-CZ-NH2	8.50	124.55	120.30
1	AA	237	G	N9-C4-C5	8.49	108.80	105.40
1	AA	761	G	N9-C4-C5	8.49	108.80	105.40
1	AA	1460	C	O4'-C1'-N1	8.49	115.00	108.20
1	AA	646	G	N9-C4-C5	8.49	108.80	105.40
1	AA	876	C	N3-C4-C5	-8.49	118.50	121.90
26	BB	444	C	C6-N1-C2	-8.49	116.90	120.30
26	BB	1224	U	N1-C2-O2	-8.49	116.85	122.80
26	BB	888	C	O4'-C1'-N1	8.49	114.99	108.20
26	BB	1229	C	C5-C4-N4	-8.49	114.25	120.20
26	BB	1275	A	N9-C4-C5	8.49	109.20	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1790	C	N3-C2-O2	-8.49	115.95	121.90
26	BB	2014	A	C2-N3-C4	8.49	114.85	110.60
26	BB	2268	A	C4-C5-N7	8.49	114.95	110.70
26	BB	2448	A	N3-C4-C5	-8.49	120.86	126.80
1	AA	587	G	N3-C2-N2	8.49	125.84	119.90
1	AA	1260	G	N3-C4-N9	8.49	131.09	126.00
1	AA	1458	G	C2-N3-C4	8.49	116.14	111.90
26	BB	207	A	O4'-C1'-N9	8.49	114.99	108.20
26	BB	314	C	N1-C2-O2	8.49	123.99	118.90
1	AA	31	G	C8-N9-C4	-8.49	103.00	106.40
24	AX	61	ARG	NE-CZ-NH1	8.49	124.54	120.30
26	BB	1421	G	N1-C2-N2	8.49	123.84	116.20
1	AA	1196	A	O4'-C4'-C3'	8.49	112.89	106.10
26	BB	1812	U	C3'-C2'-C1'	8.49	108.29	101.50
26	BB	358	U	N1-C1'-C2'	-8.48	102.67	112.00
26	BB	1815	A	C5'-C4'-O4'	-8.48	98.92	109.10
26	BB	1933	G	N3-C2-N2	-8.48	113.96	119.90
1	AA	493	A	N3-C4-N9	8.48	134.19	127.40
26	BB	370	G	C5-N7-C8	-8.48	100.06	104.30
26	BB	703	U	C5-C4-O4	-8.48	120.81	125.90
26	BB	2067	G	O4'-C1'-N9	8.48	114.99	108.20
1	AA	61	G	C6-N1-C2	-8.48	120.01	125.10
1	AA	842	U	C6-N1-C2	-8.48	115.91	121.00
1	AA	1216	A	N3-C4-C5	-8.48	120.86	126.80
1	AA	1379	G	C6-C5-N7	-8.48	125.31	130.40
26	BB	1620	G	N7-C8-N9	8.48	117.34	113.10
26	BB	1954	G	N7-C8-N9	8.48	117.34	113.10
1	AA	149	A	O4'-C4'-C3'	8.48	112.88	106.10
1	AA	344	A	N9-C4-C5	8.48	109.19	105.80
26	BB	50	U	N3-C2-O2	-8.48	116.26	122.20
26	BB	1375	U	C5-C6-N1	-8.48	118.46	122.70
26	BB	1851	U	N1-C2-N3	8.48	119.99	114.90
1	AA	108	G	N9-C4-C5	8.48	108.79	105.40
1	AA	283	U	N3-C4-C5	-8.48	109.51	114.60
1	AA	351	G	C5-N7-C8	-8.48	100.06	104.30
1	AA	1185	G	O4'-C1'-N9	8.48	114.98	108.20
26	BB	38	A	C5-C6-N1	8.48	121.94	117.70
26	BB	570	G	N7-C8-N9	8.48	117.34	113.10
1	AA	424	G	N1-C6-O6	-8.48	114.81	119.90
1	AA	761	G	C4-C5-N7	-8.48	107.41	110.80
26	BB	949	G	N1-C6-O6	-8.48	114.81	119.90
26	BB	1963	U	N1-C2-O2	8.48	128.74	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2656	U	C4-C5-C6	8.48	124.79	119.70
26	BB	2722	G	N3-C4-C5	-8.48	124.36	128.60
26	BB	363	G	C8-N9-C4	-8.48	103.01	106.40
26	BB	855	G	C5-C6-N1	8.48	115.74	111.50
1	AA	596	A	C5-N7-C8	-8.47	99.66	103.90
3	AC	47	C	N3-C2-O2	-8.47	115.97	121.90
26	BB	316	C	C4-C5-C6	8.47	121.64	117.40
26	BB	724	U	N3-C4-C5	-8.47	109.52	114.60
26	BB	1335	C	C2-N3-C4	-8.47	115.66	119.90
26	BB	1855	U	C5'-C4'-C3'	-8.47	102.44	116.00
26	BB	2490	G	N1-C2-N3	-8.47	118.81	123.90
26	BB	2545	G	N3-C4-C5	-8.47	124.36	128.60
26	BB	2666	C	N1-C2-O2	8.47	123.98	118.90
4	AD	76	C	C1'-O4'-C4'	-8.47	103.12	109.90
26	BB	44	A	C8-N9-C4	-8.47	102.41	105.80
26	BB	1385	A	N3-C4-C5	-8.47	120.87	126.80
26	BB	2828	G	C5-N7-C8	8.47	108.54	104.30
1	AA	217	C	C5-C6-N1	-8.47	116.77	121.00
1	AA	311	C	O4'-C1'-N1	8.47	114.98	108.20
1	AA	861	G	C6-C5-N7	-8.47	125.32	130.40
1	AA	1067	A	C6-N1-C2	-8.47	113.52	118.60
26	BB	134	G	C4-C5-N7	-8.47	107.41	110.80
26	BB	433	C	O4'-C1'-N1	8.47	114.98	108.20
26	BB	2508	G	C8-N9-C4	-8.47	103.01	106.40
1	AA	410	G	C5'-C4'-C3'	-8.47	102.45	116.00
1	AA	1185	G	C2-N3-C4	8.47	116.13	111.90
26	BB	74	A	C3'-C2'-C1'	8.47	108.27	101.50
26	BB	742	A	C5-C6-N6	-8.47	116.93	123.70
26	BB	1799	G	C5'-C4'-O4'	8.47	119.26	109.10
26	BB	1338	G	C5-C6-N1	-8.47	107.27	111.50
26	BB	2510	C	N3-C4-N4	8.47	123.93	118.00
1	AA	431	A	C8-N9-C4	-8.47	102.41	105.80
25	BA	110	C	N3-C4-C5	-8.46	118.51	121.90
26	BB	392	U	C2-N3-C4	-8.46	121.92	127.00
26	BB	629	G	C4-C5-C6	8.46	123.88	118.80
26	BB	1184	U	C4-C5-C6	8.46	124.78	119.70
26	BB	1854	A	C6-N1-C2	8.46	123.68	118.60
26	BB	2025	C	O4'-C1'-N1	8.46	114.97	108.20
26	BB	2232	C	N1-C2-O2	8.47	123.98	118.90
26	BB	2520	C	C5-C4-N4	8.46	126.12	120.20
1	AA	372	C	N1-C2-O2	8.46	123.98	118.90
1	AA	435	A	C4-C5-C6	-8.46	112.77	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	758	C	N3-C4-N4	8.46	123.92	118.00
1	AA	974	A	C5-C6-N1	-8.46	113.47	117.70
26	BB	2618	G	C5-C6-O6	-8.46	123.52	128.60
1	AA	148	G	O4'-C1'-N9	8.46	114.97	108.20
1	AA	1125	U	O4'-C4'-C3'	8.46	112.87	106.10
26	BB	223	A	C2-N3-C4	-8.46	106.37	110.60
26	BB	635	C	C6-N1-C2	8.46	123.68	120.30
26	BB	1722	A	C2-N3-C4	-8.46	106.37	110.60
26	BB	1845	G	C4-C5-N7	-8.46	107.42	110.80
26	BB	2168	G	C6-N1-C2	-8.46	120.02	125.10
26	BB	2209	G	N3-C4-N9	8.46	131.08	126.00
26	BB	2406	A	O4'-C4'-C3'	8.46	112.87	106.10
1	AA	1017	U	C4'-C3'-C2'	-8.46	94.14	102.60
1	AA	1034	G	N1-C2-N3	-8.46	118.83	123.90
1	AA	1323	G	N9-C4-C5	-8.46	102.02	105.40
26	BB	1288	G	N3-C4-C5	-8.46	124.37	128.60
26	BB	2791	G	O4'-C1'-N9	8.46	114.97	108.20
1	AA	415	A	O4'-C1'-N9	8.46	114.97	108.20
26	BB	261	G	C4-C5-N7	-8.46	107.42	110.80
26	BB	417	C	N3-C2-O2	-8.46	115.98	121.90
26	BB	891	G	N7-C8-N9	-8.46	108.87	113.10
26	BB	1011	G	N3-C2-N2	-8.46	113.98	119.90
26	BB	2035	G	C1'-O4'-C4'	-8.46	103.13	109.90
26	BB	2870	C	C6-N1-C2	-8.46	116.92	120.30
26	BB	1840	G	C5-C6-O6	-8.46	123.53	128.60
1	AA	517	G	N1-C2-N3	-8.45	118.83	123.90
1	AA	660	C	O4'-C1'-N1	8.45	114.96	108.20
1	AA	1229	A	N1-C6-N6	8.46	123.67	118.60
1	AA	1496	C	C1'-O4'-C4'	8.45	116.66	109.90
26	BB	367	G	C5-C6-O6	-8.46	123.53	128.60
26	BB	1759	A	N7-C8-N9	8.45	118.03	113.80
1	AA	1106	G	N1-C2-N3	-8.45	118.83	123.90
26	BB	983	A	C5-C6-N1	8.45	121.93	117.70
1	AA	1020	G	N1-C6-O6	-8.45	114.83	119.90
1	AA	1503	A	O4'-C1'-N9	8.45	114.96	108.20
26	BB	179	C	C5-C6-N1	8.45	125.22	121.00
26	BB	853	C	C2-N3-C4	8.45	124.13	119.90
26	BB	1660	G	C2-N3-C4	8.45	116.13	111.90
26	BB	1763	G	O4'-C1'-N9	8.45	114.96	108.20
26	BB	2019	A	N9-C4-C5	8.45	109.18	105.80
26	BB	2222	C	C4-C5-C6	8.45	121.63	117.40
43	BS	46	TYR	CB-CG-CD2	-8.45	115.93	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	BY	40	ARG	NE-CZ-NH2	-8.45	116.08	120.30
1	AA	831	A	C8-N9-C4	-8.45	102.42	105.80
4	AD	73	A	C6-N1-C2	8.45	123.67	118.60
26	BB	768	G	N7-C8-N9	8.45	117.33	113.10
26	BB	2885	G	O3'-P-O5'	-8.45	87.94	104.00
26	BB	2139	U	C5'-C4'-C3'	-8.45	102.48	116.00
26	BB	2332	C	C5-C6-N1	8.45	125.22	121.00
1	AA	689	C	O4'-C1'-N1	8.45	114.96	108.20
26	BB	2095	A	O4'-C4'-C3'	8.45	112.86	106.10
1	AA	735	C	N1-C1'-C2'	-8.45	102.71	112.00
5	AE	138	ARG	NE-CZ-NH2	-8.45	116.08	120.30
26	BB	18	U	C5-C6-N1	8.45	126.92	122.70
26	BB	441	U	N3-C4-C5	8.44	119.67	114.60
26	BB	830	G	N3-C4-C5	-8.45	124.38	128.60
26	BB	2033	A	O4'-C1'-C2'	-8.45	97.36	105.80
26	BB	2623	G	N3-C2-N2	-8.45	113.99	119.90
1	AA	737	C	N1-C2-O2	8.44	123.97	118.90
26	BB	1082	U	N1-C2-N3	8.44	119.97	114.90
26	BB	2822	G	C2-N3-C4	8.44	116.12	111.90
1	AA	1182	G	N9-C4-C5	8.44	108.78	105.40
26	BB	1165	A	C5-C6-N1	8.44	121.92	117.70
26	BB	1290	C	N3-C4-C5	8.44	125.28	121.90
26	BB	1913	A	N9-C4-C5	8.44	109.18	105.80
26	BB	2330	G	C6-C5-N7	-8.44	125.33	130.40
1	AA	443	C	N3-C2-O2	-8.44	115.99	121.90
26	BB	506	G	C5-N7-C8	-8.44	100.08	104.30
26	BB	1627	G	C1'-O4'-C4'	-8.44	103.15	109.90
26	BB	2434	A	C1'-O4'-C4'	-8.44	103.15	109.90
1	AA	410	G	C5-N7-C8	8.44	108.52	104.30
1	AA	1094	G	C4-C5-N7	-8.44	107.42	110.80
1	AA	1323	G	N1-C2-N3	-8.44	118.84	123.90
1	AA	103	U	N3-C4-O4	8.44	125.30	119.40
25	BA	1	U	C4-C5-C6	8.44	124.76	119.70
26	BB	297	G	N9-C4-C5	8.44	108.78	105.40
26	BB	704	G	P-O3'-C3'	8.44	129.82	119.70
26	BB	917	A	C2-N3-C4	8.44	114.82	110.60
26	BB	1030	C	O4'-C4'-C3'	-8.44	95.56	104.00
26	BB	1628	G	N3-C2-N2	-8.44	114.00	119.90
26	BB	1889	A	C2-N3-C4	8.44	114.82	110.60
26	BB	2040	G	C2-N3-C4	8.44	116.12	111.90
1	AA	1237	C	C6-N1-C2	8.43	123.67	120.30
26	BB	1502	A	C6-N1-C2	8.43	123.66	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	730	G	C4-C5-N7	-8.43	107.43	110.80
26	BB	1214	A	C4-C5-N7	8.43	114.92	110.70
26	BB	1301	A	C6-N1-C2	-8.43	113.54	118.60
26	BB	1312	U	N1-C2-N3	8.43	119.96	114.90
34	BJ	67	PRO	N-CA-CB	8.43	113.42	103.30
1	AA	422	C	N3-C4-C5	8.43	125.27	121.90
1	AA	541	G	N1-C2-N2	8.43	123.79	116.20
3	AC	59	A	C4-C5-C6	-8.43	112.78	117.00
29	BE	101	PHE	CB-CG-CD1	-8.43	114.90	120.80
1	AA	625	U	C2-N3-C4	-8.43	121.94	127.00
1	AA	1400	C	O4'-C1'-N1	8.43	114.94	108.20
26	BB	287	G	C6-C5-N7	8.43	135.46	130.40
26	BB	310	A	N3-C4-C5	-8.43	120.90	126.80
26	BB	2533	U	O4'-C1'-N1	8.43	114.94	108.20
26	BB	2597	G	C5-C6-O6	8.43	133.66	128.60
26	BB	2868	A	N3-C4-N9	8.43	134.14	127.40
1	AA	251	G	C1'-O4'-C4'	-8.43	103.16	109.90
1	AA	1095	U	C5-C4-O4	8.43	130.96	125.90
4	AD	35	C	N1-C2-O2	8.43	123.96	118.90
26	BB	812	C	C4'-C3'-C2'	-8.43	94.17	102.60
26	BB	1057	A	C5-C6-N1	8.43	121.91	117.70
26	BB	1323	C	N1-C2-O2	8.43	123.96	118.90
1	AA	1539	C	N3-C4-N4	-8.43	112.10	118.00
26	BB	103	A	N7-C8-N9	8.43	118.01	113.80
26	BB	1821	A	O4'-C1'-C2'	8.43	115.18	107.60
26	BB	2518	A	N1-C6-N6	-8.43	113.54	118.60
26	BB	2870	C	O4'-C1'-N1	8.43	114.94	108.20
1	AA	476	U	O4'-C1'-N1	8.42	114.94	108.20
1	AA	802	A	O4'-C1'-N9	8.42	114.94	108.20
1	AA	1225	A	O4'-C1'-N9	8.42	114.94	108.20
1	AA	1459	G	O4'-C1'-N9	8.42	114.94	108.20
4	AD	65	G	C5-C6-N1	8.42	115.71	111.50
26	BB	1075	C	C4'-C3'-C2'	-8.42	94.18	102.60
26	BB	1956	U	C5'-C4'-O4'	8.42	119.21	109.10
26	BB	2337	G	N1-C2-N3	-8.42	118.85	123.90
26	BB	2436	G	N3-C4-N9	-8.42	120.95	126.00
26	BB	2684	U	N3-C2-O2	-8.42	116.31	122.20
26	BB	1472	C	C5-C4-N4	-8.42	114.31	120.20
1	AA	519	C	C6-N1-C2	-8.42	116.93	120.30
1	AA	709	U	N1-C2-N3	8.42	119.95	114.90
1	AA	796	C	N3-C2-O2	-8.42	116.01	121.90
1	AA	825	A	C5-N7-C8	-8.42	99.69	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	377	G	C4'-C3'-C2'	-8.42	94.18	102.60
4	AD	4	G	C2-N3-C4	8.42	116.11	111.90
26	BB	498	G	C8-N9-C4	-8.42	103.03	106.40
26	BB	1343	G	N9-C4-C5	8.42	108.77	105.40
26	BB	2671	G	N3-C4-C5	-8.42	124.39	128.60
26	BB	1	G	C6-C5-N7	-8.42	125.35	130.40
26	BB	184	C	N3-C4-N4	8.42	123.89	118.00
26	BB	2171	A	C3'-C2'-C1'	-8.42	94.77	101.50
2	AB	72	U	O4'-C1'-N1	8.42	114.93	108.20
3	AC	44	U	N1-C2-N3	8.42	119.95	114.90
26	BB	18	U	N3-C2-O2	-8.42	116.31	122.20
26	BB	177	G	C5-N7-C8	-8.42	100.09	104.30
26	BB	518	G	N9-C4-C5	8.42	108.77	105.40
26	BB	1120	G	C4-C5-N7	8.42	114.17	110.80
26	BB	1999	C	N3-C4-C5	8.42	125.27	121.90
1	AA	192	A	C5-C6-N6	-8.41	116.97	123.70
1	AA	1224	U	C5-C4-O4	-8.41	120.85	125.90
4	AD	46	G	C6-N1-C2	-8.41	120.05	125.10
1	AA	624	C	C5-C6-N1	8.41	125.21	121.00
1	AA	1425	U	C5-C6-N1	-8.41	118.49	122.70
26	BB	2724	U	N3-C2-O2	-8.41	116.31	122.20
1	AA	216	U	N3-C4-C5	-8.41	109.55	114.60
1	AA	837	U	C2-N3-C4	-8.41	121.95	127.00
26	BB	472	A	C5'-C4'-O4'	8.41	119.19	109.10
26	BB	687	C	N1-C2-O2	8.41	123.94	118.90
26	BB	1177	G	N3-C4-C5	-8.41	124.39	128.60
26	BB	2661	G	N1-C6-O6	8.41	124.94	119.90
1	AA	1386	G	C5-C6-N1	8.41	115.70	111.50
26	BB	86	G	C2-N3-C4	8.41	116.10	111.90
26	BB	1108	U	O4'-C1'-N1	8.41	114.93	108.20
26	BB	1194	A	C8-N9-C4	-8.41	102.44	105.80
26	BB	1981	A	C5-C6-N1	8.41	121.90	117.70
26	BB	2751	G	C3'-C2'-C1'	-8.41	94.77	101.50
26	BB	1895	C	N1-C2-N3	8.40	125.08	119.20
1	AA	1223	C	N3-C2-O2	-8.40	116.02	121.90
26	BB	1861	G	C3'-C2'-C1'	8.40	108.22	101.50
26	BB	2157	G	N3-C2-N2	8.40	125.78	119.90
1	AA	272	C	C1'-O4'-C4'	-8.40	103.18	109.90
1	AA	669	G	N3-C2-N2	8.40	125.78	119.90
26	BB	836	G	C6-C5-N7	8.40	135.44	130.40
26	BB	1755	A	N1-C6-N6	8.40	123.64	118.60
26	BB	2349	G	N1-C6-O6	8.40	124.94	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	532	A	N1-C6-N6	-8.40	113.56	118.60
1	AA	86	G	C4-C5-N7	-8.40	107.44	110.80
1	AA	340	U	C5'-C4'-O4'	8.40	119.18	109.10
26	BB	488	G	N3-C4-C5	-8.40	124.40	128.60
26	BB	763	G	C3'-C2'-C1'	-8.40	94.78	101.50
26	BB	1120	G	N7-C8-N9	8.40	117.30	113.10
1	AA	201	G	C4-C5-N7	8.39	114.16	110.80
1	AA	401	C	C5-C6-N1	8.39	125.20	121.00
1	AA	623	C	O4'-C1'-N1	8.39	114.92	108.20
1	AA	1172	C	C6-N1-C2	-8.39	116.94	120.30
1	AA	1178	G	C4-C5-N7	-8.39	107.44	110.80
1	AA	1239	A	C4-C5-N7	-8.39	106.50	110.70
26	BB	585	G	C8-N9-C4	-8.39	103.04	106.40
26	BB	2740	A	C5-C6-N1	-8.39	113.50	117.70
31	BG	29	ARG	NE-CZ-NH1	8.39	124.50	120.30
1	AA	183	C	C4'-C3'-C2'	-8.39	94.21	102.60
26	BB	511	U	C3'-C2'-C1'	8.39	108.21	101.50
26	BB	2439	A	C5-N7-C8	8.39	108.10	103.90
26	BB	2456	C	C5-C4-N4	-8.39	114.33	120.20
1	AA	77	A	C5-C6-N1	-8.39	113.51	117.70
1	AA	857	C	O4'-C1'-N1	8.39	114.91	108.20
1	AA	1465	A	C4-C5-C6	8.39	121.19	117.00
1	AA	110	C	C5'-C4'-O4'	8.39	119.16	109.10
1	AA	1284	C	N3-C4-C5	-8.39	118.55	121.90
26	BB	2349	G	C5-N7-C8	-8.39	100.11	104.30
26	BB	2770	G	C2-N3-C4	8.39	116.09	111.90
26	BB	696	G	N3-C4-N9	8.39	131.03	126.00
26	BB	1523	U	C5-C6-N1	-8.38	118.51	122.70
26	BB	2136	G	C2-N3-C4	-8.38	107.71	111.90
1	AA	325	A	N9-C1'-C2'	-8.38	102.78	112.00
26	BB	610	C	C6-N1-C2	8.38	123.65	120.30
26	BB	853	C	O4'-C1'-N1	8.38	114.91	108.20
26	BB	911	A	O4'-C1'-N9	8.38	114.91	108.20
26	BB	1274	A	N3-C4-C5	-8.38	120.93	126.80
26	BB	1450	G	C6-N1-C2	-8.38	120.07	125.10
26	BB	1695	G	C4-C5-N7	-8.38	107.45	110.80
1	AA	35	G	N3-C4-C5	-8.38	124.41	128.60
1	AA	262	A	C5-C6-N1	-8.38	113.51	117.70
1	AA	365	U	C1'-O4'-C4'	-8.38	103.20	109.90
1	AA	844	G	C6-N1-C2	-8.38	120.07	125.10
26	BB	652	U	N3-C2-O2	-8.38	116.33	122.20
26	BB	1001	A	N7-C8-N9	-8.38	109.61	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	917	G	C2-N3-C4	8.38	116.09	111.90
1	AA	1411	C	O4'-C1'-N1	8.38	114.90	108.20
1	AA	1515	G	C2-N3-C4	8.38	116.09	111.90
2	AB	27	C	N3-C4-N4	8.38	123.87	118.00
4	AD	4	G	C6-N1-C2	-8.38	120.07	125.10
25	BA	104	A	N9-C4-C5	8.38	109.15	105.80
26	BB	301	G	N3-C2-N2	-8.38	114.03	119.90
26	BB	2245	U	O4'-C1'-N1	8.38	114.91	108.20
26	BB	2500	U	N3-C4-O4	-8.38	113.53	119.40
26	BB	2748	A	N3-C4-N9	-8.38	120.69	127.40
1	AA	112	G	C4-C5-N7	-8.38	107.45	110.80
1	AA	875	U	C2-N3-C4	-8.38	121.97	127.00
1	AA	423	G	C5-C6-N1	8.38	115.69	111.50
1	AA	1443	C	C6-N1-C2	-8.38	116.95	120.30
4	AD	46	G	N7-C8-N9	8.38	117.29	113.10
26	BB	1732	C	C2-N3-C4	8.38	124.09	119.90
26	BB	2560	A	N1-C6-N6	-8.38	113.57	118.60
26	BB	2640	G	C3'-C2'-C1'	8.38	108.20	101.50
26	BB	479	A	N1-C6-N6	-8.38	113.57	118.60
1	AA	164	G	N3-C4-N9	8.37	131.02	126.00
26	BB	436	C	N3-C2-O2	-8.37	116.04	121.90
26	BB	1245	G	C4-C5-C6	8.37	123.82	118.80
26	BB	1483	G	C8-N9-C4	-8.38	103.05	106.40
26	BB	2781	A	C1'-O4'-C4'	-8.38	103.20	109.90
1	AA	453	G	N9-C4-C5	8.37	108.75	105.40
1	AA	914	A	N1-C2-N3	-8.37	125.11	129.30
4	AD	7	G	C5-N7-C8	8.37	108.49	104.30
26	BB	1097	U	N3-C4-O4	8.37	125.26	119.40
26	BB	1227	G	N3-C4-C5	-8.37	124.41	128.60
26	BB	1249	U	O4'-C1'-N1	8.37	114.90	108.20
26	BB	2773	C	C5-C4-N4	8.37	126.06	120.20
1	AA	49	U	C4-C5-C6	8.37	124.72	119.70
26	BB	888	C	C5-C4-N4	-8.37	114.34	120.20
26	BB	1057	A	N3-C4-N9	8.37	134.09	127.40
26	BB	2337	G	N3-C2-N2	-8.37	114.04	119.90
1	AA	183	C	C6-N1-C2	8.37	123.65	120.30
1	AA	423	G	N9-C4-C5	8.37	108.75	105.40
1	AA	583	A	C2-N3-C4	8.37	114.78	110.60
1	AA	749	A	C5-N7-C8	-8.37	99.72	103.90
1	AA	881	G	N1-C2-N3	-8.37	118.88	123.90
26	BB	132	G	C8-N9-C4	-8.37	103.05	106.40
26	BB	411	G	C6-N1-C2	-8.37	120.08	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	424	G	O4'-C1'-N9	8.37	114.89	108.20
26	BB	1732	C	O4'-C1'-N1	8.37	114.89	108.20
26	BB	1814	G	N9-C4-C5	8.37	108.75	105.40
26	BB	1839	G	C6-C5-N7	8.37	135.42	130.40
26	BB	2040	G	C4-C5-C6	8.37	123.82	118.80
26	BB	2204	G	O4'-C4'-C3'	8.37	112.79	106.10
26	BB	2513	A	C5-N7-C8	8.37	108.08	103.90
1	AA	1118	U	C5-C6-N1	-8.37	118.52	122.70
26	BB	2333	A	C5-N7-C8	-8.36	99.72	103.90
26	BB	2821	A	C2-N3-C4	8.36	114.78	110.60
36	BL	74	TYR	CB-CG-CD1	-8.36	115.98	121.00
1	AA	198	G	C5-N7-C8	-8.36	100.12	104.30
4	AD	45	A	N1-C2-N3	-8.36	125.12	129.30
25	BA	105	G	C8-N9-C4	-8.36	103.06	106.40
26	BB	485	C	N3-C4-C5	8.36	125.25	121.90
26	BB	1137	G	C5-N7-C8	-8.36	100.12	104.30
26	BB	1515	A	C4-C5-N7	-8.36	106.52	110.70
1	AA	232	G	N3-C2-N2	-8.36	114.05	119.90
1	AA	364	A	C2-N3-C4	8.36	114.78	110.60
1	AA	408	A	N7-C8-N9	8.36	117.98	113.80
1	AA	546	A	C6-C5-N7	8.36	138.15	132.30
1	AA	1335	U	C1'-O4'-C4'	-8.36	103.21	109.90
25	BA	19	C	O4'-C1'-N1	8.36	114.89	108.20
26	BB	294	A	C2-N3-C4	-8.36	106.42	110.60
26	BB	898	C	C4-C5-C6	-8.36	113.22	117.40
1	AA	769	G	C8-N9-C4	-8.36	103.06	106.40
2	AB	14	A	N3-C4-N9	-8.36	120.71	127.40
26	BB	320	A	C2-N3-C4	8.36	114.78	110.60
26	BB	938	G	N3-C2-N2	-8.36	114.05	119.90
26	BB	1083	U	N3-C2-O2	-8.36	116.35	122.20
26	BB	1192	G	C6-N1-C2	8.36	130.12	125.10
1	AA	65	A	N9-C4-C5	8.36	109.14	105.80
25	BA	20	G	O4'-C1'-C2'	8.36	115.12	107.60
1	AA	1197	A	N1-C2-N3	-8.36	125.12	129.30
26	BB	188	G	N1-C6-O6	-8.36	114.89	119.90
26	BB	198	C	C2-N3-C4	8.36	124.08	119.90
26	BB	346	A	C2-N3-C4	8.36	114.78	110.60
26	BB	1046	A	N1-C6-N6	-8.36	113.59	118.60
26	BB	1601	G	C8-N9-C4	-8.36	103.06	106.40
4	AD	72	C	C3'-C2'-C1'	8.35	108.18	101.50
26	BB	368	A	N7-C8-N9	8.35	117.98	113.80
26	BB	1245	G	N1-C2-N3	8.35	128.91	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1530	G	O4'-C1'-N9	8.35	114.88	108.20
26	BB	2413	G	N1-C2-N2	-8.35	108.68	116.20
1	AA	256	U	C4-C5-C6	8.35	124.71	119.70
26	BB	380	G	O4'-C1'-N9	8.35	114.88	108.20
26	BB	727	A	N9-C4-C5	8.35	109.14	105.80
26	BB	2372	U	O4'-C1'-N1	8.35	114.88	108.20
26	BB	1339	G	N3-C4-C5	-8.35	124.42	128.60
26	BB	1635	A	C5-C6-N1	8.35	121.88	117.70
49	BY	19	ARG	NE-CZ-NH2	8.35	124.48	120.30
1	AA	190	A	C5-C6-N6	8.35	130.38	123.70
26	BB	657	U	C5-C4-O4	8.35	130.91	125.90
26	BB	743	A	C5-C6-N6	-8.35	117.02	123.70
26	BB	2115	G	N9-C1'-C2'	-8.35	102.81	112.00
26	BB	2152	G	C6-C5-N7	-8.35	125.39	130.40
6	AF	82	ASP	CB-CG-OD1	-8.35	110.79	118.30
26	BB	1022	G	N3-C4-C5	-8.35	124.43	128.60
26	BB	1114	C	O4'-C1'-N1	8.35	114.88	108.20
26	BB	2423	U	N3-C2-O2	-8.35	116.36	122.20
26	BB	2450	A	C4'-C3'-C2'	-8.35	94.25	102.60
26	BB	2727	A	C4-C5-N7	-8.35	106.53	110.70
1	AA	8	A	C2-N3-C4	-8.35	106.43	110.60
1	AA	1131	G	C5-N7-C8	-8.35	100.13	104.30
26	BB	2257	U	N3-C4-C5	8.35	119.61	114.60
1	AA	38	G	O4'-C1'-N9	8.35	114.88	108.20
1	AA	122	G	C3'-C2'-C1'	8.35	108.18	101.50
1	AA	249	U	N3-C2-O2	-8.35	116.36	122.20
1	AA	530	G	C4-C5-C6	8.35	123.81	118.80
1	AA	719	C	N3-C4-C5	-8.35	118.56	121.90
1	AA	1398	A	N1-C6-N6	-8.35	113.59	118.60
1	AA	1473	G	N3-C2-N2	8.35	125.74	119.90
1	AA	1500	A	C2-N3-C4	8.35	114.77	110.60
26	BB	402	A	C3'-C2'-C1'	-8.35	94.82	101.50
26	BB	1392	A	C5-N7-C8	8.35	108.07	103.90
26	BB	2330	G	C2-N3-C4	8.35	116.07	111.90
26	BB	2365	G	C8-N9-C4	-8.35	103.06	106.40
26	BB	2819	G	C1'-O4'-C4'	-8.35	103.22	109.90
1	AA	104	G	C2-N3-C4	8.34	116.07	111.90
1	AA	175	C	N3-C4-C5	-8.34	118.56	121.90
1	AA	1346	A	C5-N7-C8	8.34	108.07	103.90
3	AC	30	U	N1-C2-N3	8.34	119.91	114.90
26	BB	1014	A	O4'-C1'-N9	8.34	114.88	108.20
26	BB	1152	C	C6-N1-C2	-8.34	116.96	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	168	G	C6-C5-N7	-8.34	125.39	130.40
26	BB	1203	U	C5-C6-N1	-8.34	118.53	122.70
26	BB	1334	G	O4'-C1'-N9	8.34	114.88	108.20
26	BB	2049	G	O4'-C1'-N9	8.34	114.87	108.20
26	BB	2218	G	C6-N1-C2	-8.34	120.09	125.10
26	BB	2691	C	N1-C1'-C2'	-8.34	102.82	112.00
1	AA	211	G	C6-N1-C2	-8.34	120.09	125.10
1	AA	517	G	C2-N3-C4	8.34	116.07	111.90
1	AA	872	A	N9-C4-C5	8.34	109.14	105.80
1	AA	1092	A	N7-C8-N9	-8.34	109.63	113.80
3	AC	56	G	N9-C4-C5	-8.34	102.06	105.40
26	BB	278	A	C5'-C4'-O4'	8.34	119.11	109.10
26	BB	764	A	C4-C5-C6	-8.34	112.83	117.00
26	BB	95	A	N7-C8-N9	8.34	117.97	113.80
26	BB	195	A	C6-N1-C2	-8.34	113.60	118.60
26	BB	2801	G	C4-C5-N7	-8.34	107.47	110.80
1	AA	799	G	O4'-C4'-C3'	8.34	112.77	106.10
26	BB	463	G	N3-C2-N2	8.34	125.74	119.90
1	AA	1196	A	O4'-C1'-N9	8.34	114.87	108.20
2	AB	59	G	O4'-C1'-N9	8.34	114.87	108.20
26	BB	2464	G	O4'-C1'-N9	8.34	114.87	108.20
25	BA	103	U	O4'-C1'-N1	8.34	114.87	108.20
26	BB	729	G	O4'-C1'-N9	8.34	114.87	108.20
26	BB	2061	G	C4-C5-N7	-8.34	107.47	110.80
26	BB	2256	G	N3-C2-N2	-8.34	114.06	119.90
1	AA	55	A	N7-C8-N9	-8.33	109.63	113.80
1	AA	181	A	C6-N1-C2	8.33	123.60	118.60
1	AA	350	G	P-O3'-C3'	8.33	129.70	119.70
1	AA	1356	G	C3'-C2'-C1'	8.33	108.17	101.50
4	AD	37	U	P-O3'-C3'	8.33	129.70	119.70
26	BB	713	G	N9-C4-C5	8.33	108.73	105.40
26	BB	715	A	C8-N9-C4	-8.33	102.47	105.80
26	BB	1294	U	N3-C2-O2	-8.33	116.37	122.20
26	BB	2835	A	C5-C6-N1	-8.33	113.53	117.70
1	AA	91	U	N3-C2-O2	-8.33	116.37	122.20
1	AA	1272	G	N7-C8-N9	8.33	117.27	113.10
26	BB	791	C	N3-C2-O2	-8.33	116.07	121.90
26	BB	1532	A	C5'-C4'-O4'	8.33	119.09	109.10
26	BB	1904	G	C5-N7-C8	8.33	108.47	104.30
1	AA	104	G	N9-C4-C5	8.33	108.73	105.40
1	AA	938	A	N1-C6-N6	-8.33	113.61	118.60
1	AA	1221	G	C5-C6-O6	-8.33	123.60	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	27	A	P-O3'-C3'	8.33	129.69	119.70
26	BB	192	C	N1-C2-O2	8.33	123.90	118.90
26	BB	795	C	N3-C4-C5	-8.33	118.57	121.90
26	BB	954	G	C5-C6-O6	-8.33	123.60	128.60
26	BB	1128	G	C5-N7-C8	8.33	108.46	104.30
26	BB	2758	A	C4-C5-N7	8.33	114.86	110.70
1	AA	567	G	N3-C4-C5	-8.32	124.44	128.60
1	AA	1272	G	N9-C4-C5	-8.32	102.07	105.40
26	BB	159	G	N3-C4-N9	8.32	131.00	126.00
26	BB	1889	A	C3'-C2'-C1'	-8.32	94.84	101.50
26	BB	1907	G	C8-N9-C4	-8.32	103.07	106.40
26	BB	2101	A	C5-C6-N6	-8.32	117.04	123.70
26	BB	674	G	N9-C1'-C2'	-8.32	102.84	112.00
26	BB	1940	U	C5-C4-O4	8.32	130.89	125.90
26	BB	1948	G	N3-C4-C5	-8.32	124.44	128.60
26	BB	2677	G	C2-N3-C4	8.32	116.06	111.90
26	BB	2708	G	N9-C1'-C2'	-8.32	102.84	112.00
26	BB	2717	C	C6-N1-C2	8.32	123.63	120.30
28	BD	68	ARG	NE-CZ-NH2	-8.32	116.14	120.30
1	AA	1453	G	C5'-C4'-C3'	-8.32	102.69	116.00
1	AA	57	G	C2-N3-C4	8.32	116.06	111.90
4	AD	71	G	C5-N7-C8	-8.32	100.14	104.30
26	BB	213	A	C4'-C3'-C2'	-8.32	94.28	102.60
1	AA	332	G	C2-N3-C4	8.32	116.06	111.90
1	AA	1021	A	C2-N3-C4	8.32	114.76	110.60
1	AA	1256	A	C4-C5-C6	-8.32	112.84	117.00
26	BB	48	G	C5'-C4'-O4'	8.32	119.08	109.10
26	BB	2870	C	C2-N3-C4	-8.32	115.74	119.90
26	BB	1356	G	C8-N9-C4	-8.32	103.07	106.40
26	BB	1735	A	C6-N1-C2	8.32	123.59	118.60
26	BB	2770	G	C8-N9-C4	-8.32	103.07	106.40
31	BG	70	ARG	NE-CZ-NH2	8.32	124.46	120.30
1	AA	567	G	O4'-C1'-N9	8.32	114.85	108.20
1	AA	641	U	O4'-C1'-N1	8.32	114.85	108.20
1	AA	1272	G	C4-C5-N7	8.32	114.13	110.80
26	BB	612	G	N3-C4-C5	-8.32	124.44	128.60
26	BB	809	G	N1-C2-N3	-8.32	118.91	123.90
26	BB	1279	G	C5'-C4'-C3'	-8.32	102.69	116.00
26	BB	1423	G	N9-C4-C5	8.32	108.73	105.40
26	BB	1844	C	N1-C2-N3	8.32	125.02	119.20
26	BB	2353	G	N3-C4-C5	8.32	132.76	128.60
26	BB	2709	G	C6-C5-N7	8.32	135.39	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	BH	150	TYR	CB-CG-CD1	-8.32	116.01	121.00
1	AA	417	G	O4'-C4'-C3'	8.31	112.75	106.10
1	AA	935	A	C3'-C2'-C1'	8.31	108.15	101.50
1	AA	988	G	N7-C8-N9	-8.31	108.94	113.10
26	BB	1689	A	C6-N1-C2	-8.31	113.61	118.60
26	BB	1041	G	C2-N3-C4	-8.31	107.74	111.90
26	BB	1524	G	N7-C8-N9	8.31	117.26	113.10
26	BB	1623	G	O4'-C1'-N9	8.31	114.85	108.20
1	AA	1450	U	C4-C5-C6	8.31	124.69	119.70
1	AA	175	C	C6-N1-C2	8.31	123.62	120.30
1	AA	735	C	N1-C2-N3	8.31	125.02	119.20
1	AA	951	G	C5-N7-C8	8.31	108.46	104.30
1	AA	1139	G	C5-C6-N1	8.31	115.66	111.50
26	BB	407	G	N1-C2-N2	-8.31	108.72	116.20
26	BB	910	A	C5-N7-C8	-8.31	99.74	103.90
3	AC	33	A	C5-C6-N1	8.31	121.86	117.70
4	AD	29	C	O4'-C1'-N1	8.31	114.85	108.20
26	BB	1189	A	C6-N1-C2	-8.31	113.61	118.60
26	BB	1865	U	O4'-C4'-C3'	8.31	112.75	106.10
26	BB	2604	U	C3'-C2'-C1'	8.31	108.15	101.50
1	AA	72	A	N1-C6-N6	-8.31	113.61	118.60
1	AA	82	G	C5-C6-O6	-8.31	123.62	128.60
1	AA	231	U	C5-C6-N1	-8.31	118.55	122.70
1	AA	313	A	C4-C5-C6	-8.31	112.85	117.00
1	AA	672	U	C6-N1-C2	-8.31	116.02	121.00
1	AA	932	C	C1'-O4'-C4'	-8.31	103.25	109.90
26	BB	324	A	C4-C5-N7	-8.31	106.55	110.70
26	BB	2683	C	O4'-C1'-N1	8.31	114.85	108.20
1	AA	378	G	C2-N3-C4	8.31	116.05	111.90
3	AC	17	U	C5-C4-O4	-8.31	120.92	125.90
19	AS	32	PHE	CB-CG-CD1	-8.31	114.98	120.80
25	BA	36	C	N3-C4-C5	-8.31	118.58	121.90
26	BB	1111	A	N1-C2-N3	8.31	133.45	129.30
26	BB	2199	A	C8-N9-C4	-8.31	102.48	105.80
33	BI	46	PHE	CB-CG-CD2	-8.31	114.98	120.80
1	AA	794	A	C5-C6-N1	8.31	121.85	117.70
1	AA	902	G	N7-C8-N9	8.31	117.25	113.10
1	AA	1251	A	N9-C4-C5	8.30	109.12	105.80
1	AA	1276	G	C4-C5-N7	-8.30	107.48	110.80
26	BB	309	A	N7-C8-N9	8.31	117.95	113.80
1	AA	1489	G	C4-C5-N7	-8.30	107.48	110.80
26	BB	914	G	C5-C6-N1	8.30	115.65	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1549	A	N1-C6-N6	-8.30	113.62	118.60
26	BB	2259	U	C4-C5-C6	8.30	124.68	119.70
26	BB	2520	C	N1-C2-O2	8.30	123.88	118.90
26	BB	916	G	N3-C2-N2	8.30	125.71	119.90
26	BB	2411	A	O4'-C1'-N9	8.30	114.84	108.20
1	AA	53	A	N1-C2-N3	-8.30	125.15	129.30
1	AA	152	A	O4'-C1'-N9	8.30	114.84	108.20
1	AA	221	C	N3-C2-O2	-8.30	116.09	121.90
2	AB	65	C	C5-C4-N4	8.30	126.01	120.20
26	BB	357	C	C4-C5-C6	-8.30	113.25	117.40
1	AA	552	U	C1'-O4'-C4'	8.30	116.54	109.90
25	BA	35	C	N3-C2-O2	-8.30	116.09	121.90
26	BB	159	G	C1'-O4'-C4'	-8.30	103.26	109.90
26	BB	1274	A	C2-N3-C4	8.30	114.75	110.60
26	BB	1952	A	C8-N9-C4	8.30	109.12	105.80
26	BB	2048	G	N7-C8-N9	8.30	117.25	113.10
26	BB	2597	G	C2-N3-C4	8.30	116.05	111.90
1	AA	183	C	O4'-C4'-C3'	-8.30	95.70	104.00
1	AA	318	G	N3-C2-N2	-8.30	114.09	119.90
1	AA	361	G	C8-N9-C4	-8.30	103.08	106.40
26	BB	290	U	C4-C5-C6	8.30	124.68	119.70
1	AA	963	G	N1-C2-N3	-8.30	118.92	123.90
26	BB	1491	G	C6-N1-C2	-8.30	120.12	125.10
26	BB	1754	A	O4'-C1'-N9	-8.30	101.56	108.20
1	AA	1494	G	C8-N9-C4	-8.29	103.08	106.40
26	BB	267	C	N3-C2-O2	-8.29	116.09	121.90
26	BB	813	U	C2-N3-C4	-8.29	122.02	127.00
26	BB	1645	G	N9-C4-C5	8.30	108.72	105.40
26	BB	1767	G	C8-N9-C4	-8.30	103.08	106.40
26	BB	2513	A	C2-N3-C4	8.30	114.75	110.60
26	BB	1549	A	N9-C1'-C2'	-8.29	102.88	112.00
26	BB	2003	A	O4'-C1'-N9	8.29	114.84	108.20
26	BB	2529	G	C8-N9-C4	-8.29	103.08	106.40
26	BB	2622	U	C6-N1-C2	-8.29	116.02	121.00
25	BA	104	A	C5'-C4'-C3'	-8.29	102.73	116.00
1	AA	68	G	C6-N1-C2	-8.29	120.12	125.10
1	AA	434	U	C4-C5-C6	8.29	124.67	119.70
1	AA	812	G	C8-N9-C4	-8.29	103.08	106.40
1	AA	1534	A	C8-N9-C4	-8.29	102.48	105.80
28	BD	261	ARG	NE-CZ-NH1	8.29	124.45	120.30
1	AA	1009	U	O4'-C1'-N1	8.29	114.83	108.20
1	AA	1368	A	N7-C8-N9	8.29	117.94	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1469	C	O4'-C1'-N1	8.29	114.83	108.20
26	BB	784	G	N3-C4-C5	-8.29	124.45	128.60
26	BB	1973	G	C6-N1-C2	-8.29	120.13	125.10
26	BB	2807	U	C5-C6-N1	-8.29	118.56	122.70
26	BB	616	A	C5-C6-N1	8.29	121.84	117.70
26	BB	1033	U	N3-C2-O2	-8.29	116.40	122.20
26	BB	1139	G	N1-C2-N2	8.29	123.66	116.20
1	AA	463	U	O4'-C1'-N1	8.29	114.83	108.20
26	BB	98	G	N1-C6-O6	8.29	124.87	119.90
26	BB	1364	G	O4'-C1'-N9	8.29	114.83	108.20
26	BB	1934	C	N3-C4-N4	8.29	123.80	118.00
26	BB	2550	G	C5'-C4'-O4'	8.29	119.04	109.10
1	AA	923	A	C8-N9-C4	-8.28	102.49	105.80
26	BB	790	U	O4'-C1'-N1	8.28	114.83	108.20
53	B2	43	PHE	CB-CG-CD1	-8.29	115.00	120.80
1	AA	949	A	N9-C4-C5	8.28	109.11	105.80
1	AA	1063	C	N3-C4-C5	-8.28	118.59	121.90
1	AA	1426	G	N7-C8-N9	8.28	117.24	113.10
26	BB	1803	A	N1-C2-N3	-8.28	125.16	129.30
26	BB	2834	G	O4'-C1'-C2'	8.28	115.05	107.60
1	AA	74	A	N1-C2-N3	-8.28	125.16	129.30
2	AB	49	G	N1-C2-N3	-8.28	118.93	123.90
26	BB	2145	C	O4'-C4'-C3'	-8.28	95.72	104.00
38	BN	81	ASP	CB-CG-OD1	-8.28	110.85	118.30
26	BB	1695	G	N1-C6-O6	-8.28	114.93	119.90
26	BB	2280	G	C4'-C3'-C2'	-8.28	94.32	102.60
1	AA	482	A	C5-C6-N1	8.28	121.84	117.70
1	AA	1379	G	C8-N9-C4	-8.28	103.09	106.40
26	BB	40	U	O4'-C1'-N1	8.28	114.82	108.20
26	BB	228	C	C4-C5-C6	-8.28	113.26	117.40
26	BB	1838	C	N1-C2-O2	8.28	123.87	118.90
26	BB	2796	U	N1-C2-N3	8.28	119.87	114.90
26	BB	383	C	N1-C2-O2	8.28	123.86	118.90
26	BB	631	A	O4'-C1'-N9	8.28	114.82	108.20
26	BB	1619	G	N3-C4-C5	-8.28	124.46	128.60
26	BB	1860	G	C4-C5-C6	8.28	123.77	118.80
1	AA	203	G	C4-C5-C6	8.27	123.76	118.80
1	AA	213	G	C5'-C4'-C3'	-8.27	102.76	116.00
26	BB	132	G	O4'-C1'-N9	8.27	114.82	108.20
26	BB	1142	A	N9-C4-C5	8.27	109.11	105.80
26	BB	1719	G	C5-C6-O6	-8.27	123.64	128.60
26	BB	2352	A	N3-C4-N9	8.27	134.02	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2648	G	N3-C4-C5	-8.27	124.46	128.60
26	BB	2692	G	N1-C6-O6	8.27	124.86	119.90
26	BB	436	C	C6-N1-C2	-8.27	116.99	120.30
26	BB	900	A	P-O3'-C3'	8.27	129.62	119.70
26	BB	1075	C	C3'-C2'-C1'	8.27	108.12	101.50
1	AA	49	U	C1'-O4'-C4'	8.27	116.51	109.90
1	AA	108	G	O4'-C1'-N9	8.27	114.81	108.20
1	AA	887	G	C5-N7-C8	-8.27	100.17	104.30
1	AA	1295	U	O4'-C1'-N1	8.27	114.81	108.20
26	BB	991	C	N1-C2-O2	8.27	123.86	118.90
1	AA	111	G	C6-N1-C2	-8.27	120.14	125.10
1	AA	1088	G	N3-C4-N9	-8.27	121.04	126.00
26	BB	734	A	C4-C5-C6	8.27	121.13	117.00
26	BB	1416	G	C2-N3-C4	8.27	116.03	111.90
26	BB	2235	G	N1-C6-O6	-8.27	114.94	119.90
26	BB	2303	G	C2-N3-C4	8.27	116.03	111.90
26	BB	2465	C	N1-C2-N3	8.27	124.99	119.20
26	BB	2259	U	N1-C2-N3	8.27	119.86	114.90
1	AA	431	A	N9-C4-C5	8.26	109.11	105.80
26	BB	541	A	N3-C4-C5	-8.26	121.02	126.80
1	AA	1299	A	C1'-O4'-C4'	8.26	116.51	109.90
1	AA	885	G	C3'-C2'-C1'	-8.26	94.89	101.50
1	AA	1007	U	C4-C5-C6	8.26	124.66	119.70
1	AA	1250	A	C5-C6-N1	8.26	121.83	117.70
2	AB	76	A	C5-C6-N6	-8.26	117.09	123.70
26	BB	473	G	N1-C2-N2	8.26	123.63	116.20
26	BB	976	G	C3'-C2'-C1'	8.26	108.11	101.50
26	BB	2216	G	N1-C2-N3	8.26	128.86	123.90
26	BB	2407	A	N7-C8-N9	8.26	117.93	113.80
26	BB	2611	C	C3'-C2'-C1'	8.26	108.11	101.50
26	BB	2697	G	C2-N3-C4	8.26	116.03	111.90
1	AA	1148	U	P-O3'-C3'	8.26	129.61	119.70
2	AB	6	C	N1-C2-O2	8.26	123.86	118.90
26	BB	1641	A	C2-N3-C4	8.26	114.73	110.60
1	AA	525	C	N1-C2-O2	-8.26	113.95	118.90
1	AA	714	G	N9-C1'-C2'	-8.26	102.92	112.00
26	BB	1036	G	C4-C5-N7	8.26	114.10	110.80
26	BB	1236	G	C4-C5-C6	-8.26	113.85	118.80
26	BB	2565	A	C2-N3-C4	8.26	114.73	110.60
57	B6	39	ARG	NE-CZ-NH2	8.26	124.43	120.30
26	BB	1410	G	N3-C2-N2	-8.26	114.12	119.90
26	BB	1679	A	N7-C8-N9	-8.26	109.67	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1736	U	N3-C2-O2	-8.26	116.42	122.20
56	B5	35	ARG	NE-CZ-NH1	8.26	124.43	120.30
1	AA	104	G	C6-N1-C2	-8.25	120.15	125.10
1	AA	296	U	N3-C2-O2	-8.25	116.42	122.20
1	AA	482	A	C2-N3-C4	8.25	114.73	110.60
1	AA	742	G	N3-C4-C5	-8.25	124.47	128.60
1	AA	1523	G	N3-C4-C5	-8.25	124.47	128.60
9	AI	8	PHE	CB-CG-CD1	-8.25	115.02	120.80
26	BB	609	A	C8-N9-C4	-8.25	102.50	105.80
26	BB	2496	C	C3'-C2'-C1'	8.25	108.10	101.50
1	AA	505	G	O4'-C1'-N9	8.25	114.80	108.20
1	AA	695	A	N9-C4-C5	8.25	109.10	105.80
1	AA	1415	G	C2-N3-C4	8.25	116.03	111.90
6	AF	28	PHE	CB-CG-CD2	-8.25	115.03	120.80
26	BB	856	G	C8-N9-C4	-8.25	103.10	106.40
26	BB	1239	G	C4'-C3'-C2'	-8.25	94.35	102.60
26	BB	1409	U	C5-C6-N1	-8.25	118.58	122.70
26	BB	1511	G	C4-C5-N7	-8.25	107.50	110.80
56	B5	34	ARG	NE-CZ-NH2	-8.25	116.17	120.30
1	AA	947	G	N3-C4-C5	-8.25	124.48	128.60
26	BB	776	G	O4'-C1'-C2'	-8.25	97.55	105.80
26	BB	1110	G	N9-C4-C5	8.25	108.70	105.40
26	BB	1471	G	C1'-O4'-C4'	-8.25	103.30	109.90
4	AD	13	C	N3-C4-C5	-8.25	118.60	121.90
26	BB	480	A	C5-C6-N6	-8.25	117.10	123.70
26	BB	508	A	O4'-C1'-N9	8.25	114.80	108.20
26	BB	729	G	N3-C4-C5	-8.25	124.48	128.60
26	BB	887	U	O4'-C1'-N1	8.25	114.80	108.20
26	BB	1386	C	N3-C4-C5	8.25	125.20	121.90
26	BB	2054	A	C5-C6-N1	8.25	121.82	117.70
26	BB	1704	C	C5-C6-N1	8.25	125.12	121.00
1	AA	211	G	N1-C6-O6	-8.24	114.95	119.90
1	AA	1415	G	C6-N1-C2	-8.24	120.15	125.10
26	BB	1028	A	N9-C4-C5	-8.24	102.50	105.80
26	BB	1714	U	C5-C4-O4	-8.24	120.95	125.90
26	BB	2156	G	C5-N7-C8	-8.24	100.18	104.30
26	BB	2677	G	N3-C4-N9	8.24	130.95	126.00
39	BO	93	VAL	CA-CB-CG1	8.24	123.27	110.90
1	AA	854	U	O4'-C1'-N1	8.24	114.79	108.20
1	AA	1294	G	C6-N1-C2	-8.24	120.15	125.10
1	AA	1343	G	C5-N7-C8	-8.24	100.18	104.30
26	BB	1340	U	N1-C2-N3	8.24	119.85	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1486	G	C6-N1-C2	-8.24	120.16	125.10
26	BB	1063	G	C4-C5-C6	8.24	123.75	118.80
26	BB	2143	C	N1-C2-O2	8.24	123.85	118.90
26	BB	2261	C	N3-C4-N4	8.24	123.77	118.00
26	BB	2362	C	O4'-C1'-N1	8.24	114.79	108.20
26	BB	2752	C	N1-C2-O2	8.24	123.84	118.90
1	AA	1233	G	C4'-C3'-C2'	-8.24	94.36	102.60
25	BA	47	C	C2-N3-C4	8.24	124.02	119.90
26	BB	275	C	C2-N3-C4	8.24	124.02	119.90
26	BB	1211	C	C2-N3-C4	8.24	124.02	119.90
26	BB	1230	A	C6-N1-C2	-8.24	113.66	118.60
26	BB	1797	G	N3-C2-N2	-8.24	114.13	119.90
26	BB	2558	C	C5'-C4'-O4'	8.24	118.99	109.10
34	BJ	124	ARG	NE-CZ-NH2	-8.24	116.18	120.30
42	BR	102	ARG	NE-CZ-NH1	8.24	124.42	120.30
1	AA	667	G	N1-C6-O6	8.24	124.84	119.90
1	AA	690	G	O4'-C1'-N9	8.24	114.79	108.20
26	BB	305	C	C2-N3-C4	8.24	124.02	119.90
26	BB	926	G	N1-C2-N2	-8.24	108.79	116.20
26	BB	1718	G	C2-N3-C4	8.24	116.02	111.90
26	BB	2655	G	N1-C2-N3	-8.24	118.96	123.90
1	AA	32	A	C5-C6-N1	-8.23	113.58	117.70
1	AA	135	C	N3-C4-C5	-8.23	118.61	121.90
1	AA	397	A	C2-N3-C4	8.23	114.72	110.60
1	AA	944	G	C6-C5-N7	8.23	135.34	130.40
1	AA	1264	U	C5-C4-O4	-8.23	120.96	125.90
26	BB	1179	G	O4'-C1'-N9	8.23	114.79	108.20
26	BB	1632	A	C4-C5-C6	-8.23	112.88	117.00
26	BB	1930	G	N3-C2-N2	-8.23	114.14	119.90
26	BB	2049	G	C1'-O4'-C4'	-8.23	103.31	109.90
1	AA	944	G	N3-C4-C5	-8.23	124.48	128.60
26	BB	346	A	C1'-O4'-C4'	8.23	116.48	109.90
26	BB	1242	U	N1-C2-N3	8.23	119.84	114.90
26	BB	1359	A	N1-C2-N3	-8.23	125.18	129.30
26	BB	1602	U	O4'-C4'-C3'	8.23	112.68	106.10
26	BB	2310	C	N3-C2-O2	8.23	127.66	121.90
26	BB	2376	A	N7-C8-N9	8.23	117.92	113.80
26	BB	2846	G	N3-C4-C5	-8.23	124.48	128.60
1	AA	2	A	N1-C6-N6	8.23	123.54	118.60
1	AA	1468	A	O4'-C1'-N9	8.23	114.78	108.20
1	AA	716	A	N7-C8-N9	-8.23	109.69	113.80
1	AA	799	G	C5-C6-O6	-8.23	123.66	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1236	A	N9-C4-C5	-8.23	102.51	105.80
26	BB	1321	A	N7-C8-N9	-8.23	109.69	113.80
26	BB	1987	A	C3'-C2'-C1'	8.23	108.08	101.50
43	BS	50	ARG	NE-CZ-NH2	-8.23	116.19	120.30
26	BB	162	U	O4'-C1'-C2'	-8.23	97.57	105.80
26	BB	596	U	O4'-C1'-N1	8.23	114.78	108.20
26	BB	1563	U	C2-N3-C4	-8.23	122.06	127.00
1	AA	441	A	C5-C6-N6	8.22	130.28	123.70
1	AA	800	G	N7-C8-N9	8.22	117.21	113.10
26	BB	426	C	C2-N3-C4	8.22	124.01	119.90
26	BB	1738	G	C2-N3-C4	8.22	116.01	111.90
1	AA	1377	A	C2-N3-C4	8.22	114.71	110.60
1	AA	1417	G	O4'-C1'-N9	8.22	114.78	108.20
26	BB	279	A	N7-C8-N9	-8.22	109.69	113.80
26	BB	1537	G	C6-N1-C2	-8.22	120.17	125.10
1	AA	1453	G	O4'-C1'-N9	8.22	114.78	108.20
2	AB	22	G	N9-C4-C5	-8.22	102.11	105.40
26	BB	60	G	C5-C6-N1	8.22	115.61	111.50
26	BB	142	A	C2-N3-C4	8.22	114.71	110.60
26	BB	539	G	N7-C8-N9	8.22	117.21	113.10
26	BB	1259	G	C8-N9-C4	-8.22	103.11	106.40
26	BB	1393	A	C3'-C2'-C1'	-8.22	94.92	101.50
26	BB	2331	G	C2-N3-C4	-8.22	107.79	111.90
26	BB	115	C	C2-N3-C4	-8.22	115.79	119.90
26	BB	323	C	N1-C1'-C2'	-8.22	102.96	112.00
26	BB	1988	G	C4-C5-N7	-8.22	107.51	110.80
26	BB	2128	G	N3-C4-C5	-8.22	124.49	128.60
26	BB	2630	G	C4-C5-C6	8.22	123.73	118.80
26	BB	2794	C	N3-C4-C5	-8.22	118.61	121.90
1	AA	1283	U	O4'-C1'-N1	8.22	114.77	108.20
25	BA	35	C	C4'-C3'-C2'	-8.22	94.38	102.60
26	BB	574	A	O4'-C4'-C3'	-8.22	95.78	104.00
26	BB	1293	C	C5-C6-N1	8.22	125.11	121.00
26	BB	1441	G	N3-C4-N9	8.22	130.93	126.00
1	AA	1047	G	C5-N7-C8	8.21	108.41	104.30
26	BB	264	C	N1-C2-O2	8.22	123.83	118.90
26	BB	265	A	C4'-C3'-C2'	-8.21	94.39	102.60
26	BB	1646	C	C4-C5-C6	-8.22	113.29	117.40
26	BB	1710	G	O4'-C1'-N9	8.22	114.77	108.20
26	BB	2330	G	N3-C4-C5	-8.22	124.49	128.60
39	BO	28	PHE	CB-CG-CD1	-8.21	115.05	120.80
1	AA	1101	A	N9-C4-C5	8.21	109.08	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1273	C	C6-N1-C2	8.21	123.58	120.30
26	BB	298	G	N9-C4-C5	8.21	108.69	105.40
26	BB	744	U	O4'-C1'-N1	8.21	114.77	108.20
26	BB	1267	U	O4'-C1'-N1	8.21	114.77	108.20
26	BB	1443	U	C6-N1-C2	-8.21	116.07	121.00
26	BB	1760	C	C3'-C2'-C1'	8.21	108.07	101.50
26	BB	2403	C	N1-C1'-C2'	-8.21	102.97	112.00
26	BB	1828	G	N3-C4-C5	-8.21	124.50	128.60
1	AA	227	G	C5-C6-N1	8.21	115.61	111.50
1	AA	961	U	N1-C2-O2	8.21	128.55	122.80
1	AA	230	G	N3-C4-C5	-8.21	124.50	128.60
1	AA	289	G	N1-C2-N2	8.21	123.59	116.20
1	AA	1523	G	N9-C4-C5	8.21	108.68	105.40
25	BA	11	C	O4'-C1'-N1	8.21	114.77	108.20
26	BB	543	G	C5-N7-C8	-8.21	100.20	104.30
26	BB	980	A	C6-N1-C2	8.21	123.53	118.60
26	BB	1038	G	O4'-C1'-C2'	-8.21	97.59	105.80
26	BB	1115	G	N3-C4-C5	-8.21	124.50	128.60
26	BB	1508	A	C8-N9-C4	-8.21	102.52	105.80
26	BB	1568	G	O4'-C4'-C3'	8.21	112.67	106.10
26	BB	2218	G	C5-C6-N1	8.21	115.60	111.50
1	AA	826	C	N3-C2-O2	8.21	127.64	121.90
26	BB	240	C	C2-N3-C4	8.21	124.00	119.90
26	BB	1311	G	N3-C4-N9	-8.21	121.08	126.00
1	AA	575	G	C3'-C2'-C1'	-8.20	94.94	101.50
1	AA	1119	C	O4'-C4'-C3'	8.21	112.66	106.10
26	BB	945	A	O4'-C4'-C3'	8.21	112.67	106.10
1	AA	1450	U	C5-C6-N1	-8.20	118.60	122.70
4	AD	20	G	O4'-C1'-C2'	8.20	114.98	107.60
26	BB	246	C	C2-N3-C4	8.20	124.00	119.90
26	BB	1245	G	C5'-C4'-O4'	8.20	118.94	109.10
26	BB	1851	U	N3-C2-O2	-8.20	116.46	122.20
26	BB	2189	U	O4'-C1'-N1	8.20	114.76	108.20
26	BB	2265	U	C6-N1-C2	8.21	125.92	121.00
26	BB	2347	C	C2-N3-C4	8.20	124.00	119.90
26	BB	1765	U	N1-C1'-C2'	-8.20	102.98	112.00
26	BB	1929	G	C4-C5-N7	-8.20	107.52	110.80
1	AA	1266	G	N1-C2-N3	-8.20	118.98	123.90
25	BA	11	C	C4-C5-C6	-8.20	113.30	117.40
26	BB	1953	A	C5'-C4'-O4'	8.20	118.94	109.10
26	BB	2154	A	N1-C2-N3	-8.20	125.20	129.30
26	BB	2737	G	C4-C5-C6	8.20	123.72	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	BS	50	ARG	NE-CZ-NH1	8.20	124.40	120.30
1	AA	242	G	C3'-C2'-C1'	-8.20	94.94	101.50
1	AA	374	A	N1-C2-N3	-8.20	125.20	129.30
1	AA	1434	A	N7-C8-N9	8.20	117.90	113.80
26	BB	1559	U	N3-C2-O2	-8.20	116.46	122.20
1	AA	1052	U	C5'-C4'-O4'	8.20	118.94	109.10
1	AA	1364	U	N3-C2-O2	-8.20	116.46	122.20
2	AB	7	G	C2-N3-C4	8.20	116.00	111.90
3	AC	20	G	N7-C8-N9	-8.20	109.00	113.10
26	BB	185	G	N7-C8-N9	8.20	117.20	113.10
26	BB	1745	A	C2-N3-C4	8.20	114.70	110.60
26	BB	2238	G	N1-C6-O6	-8.20	114.98	119.90
26	BB	2376	A	C8-N9-C4	-8.20	102.52	105.80
1	AA	238	A	C6-N1-C2	-8.20	113.68	118.60
1	AA	940	C	N3-C2-O2	8.20	127.64	121.90
1	AA	1423	G	N3-C4-C5	-8.20	124.50	128.60
25	BA	67	G	N7-C8-N9	8.20	117.20	113.10
26	BB	694	U	C1'-O4'-C4'	8.20	116.46	109.90
1	AA	148	G	N1-C2-N3	-8.19	118.98	123.90
26	BB	971	G	C5-C6-N1	8.20	115.60	111.50
26	BB	2668	G	O4'-C1'-N9	8.20	114.76	108.20
26	BB	975	A	C8-N9-C4	-8.19	102.52	105.80
26	BB	108	G	O4'-C1'-N9	8.19	114.75	108.20
26	BB	1212	G	N3-C2-N2	-8.19	114.17	119.90
1	AA	792	A	O4'-C1'-N9	8.19	114.75	108.20
26	BB	30	G	C4-C5-N7	8.19	114.08	110.80
26	BB	863	A	C5-N7-C8	-8.19	99.81	103.90
26	BB	1535	A	C5-N7-C8	-8.19	99.80	103.90
26	BB	2859	G	C3'-C2'-C1'	8.19	108.05	101.50
1	AA	321	A	C8-N9-C4	-8.19	102.52	105.80
1	AA	471	U	O4'-C1'-N1	8.19	114.75	108.20
26	BB	1222	U	O4'-C1'-N1	8.19	114.75	108.20
26	BB	2466	C	N3-C4-C5	8.19	125.18	121.90
1	AA	344	A	N3-C4-C5	-8.19	121.07	126.80
26	BB	1041	G	N1-C6-O6	8.19	124.81	119.90
26	BB	1213	A	P-O3'-C3'	8.19	129.53	119.70
26	BB	2176	A	C6-C5-N7	8.19	138.03	132.30
26	BB	2682	A	O4'-C1'-N9	8.19	114.75	108.20
1	AA	374	A	C6-C5-N7	8.19	138.03	132.30
26	BB	331	C	O3'-P-O5'	-8.19	88.44	104.00
26	BB	574	A	C3'-C2'-C1'	-8.19	94.95	101.50
26	BB	1577	C	N1-C2-O2	8.19	123.81	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1749	A	N1-C2-N3	-8.19	125.21	129.30
50	BZ	44	ARG	NE-CZ-NH1	8.19	124.39	120.30
26	BB	2435	A	N9-C4-C5	8.19	109.07	105.80
1	AA	55	A	C4'-C3'-C2'	-8.18	94.42	102.60
1	AA	1036	A	C8-N9-C4	-8.18	102.53	105.80
1	AA	1069	C	C5-C6-N1	8.18	125.09	121.00
26	BB	1165	A	N1-C6-N6	-8.18	113.69	118.60
26	BB	1670	C	O4'-C1'-N1	8.18	114.75	108.20
26	BB	1738	G	N3-C4-N9	8.18	130.91	126.00
26	BB	1980	G	C4-C5-N7	8.18	114.07	110.80
26	BB	2346	A	C4-C5-C6	8.18	121.09	117.00
26	BB	2583	G	C4'-C3'-C2'	-8.18	94.42	102.60
26	BB	2610	C	C5'-C4'-O4'	8.18	118.92	109.10
26	BB	2813	A	C2-N3-C4	-8.18	106.51	110.60
28	BD	47	ARG	NE-CZ-NH1	8.18	124.39	120.30
1	AA	543	U	C5-C6-N1	-8.18	118.61	122.70
1	AA	833	G	N1-C2-N3	8.18	128.81	123.90
16	AP	78	ARG	CD-NE-CZ	8.18	135.05	123.60
26	BB	237	C	C2-N3-C4	8.18	123.99	119.90
26	BB	1038	G	C4'-C3'-C2'	-8.18	94.42	102.60
1	AA	45	G	C5-N7-C8	8.18	108.39	104.30
1	AA	862	C	C4-C5-C6	-8.18	113.31	117.40
1	AA	900	A	P-O3'-C3'	8.18	129.51	119.70
1	AA	1209	C	N3-C4-N4	8.18	123.72	118.00
26	BB	1739	A	N9-C4-C5	8.18	109.07	105.80
26	BB	1817	G	N1-C6-O6	8.18	124.81	119.90
1	AA	142	G	N7-C8-N9	-8.18	109.01	113.10
1	AA	331	G	N3-C4-C5	-8.18	124.51	128.60
1	AA	742	G	C8-N9-C4	-8.18	103.13	106.40
1	AA	751	U	C5-C4-O4	8.18	130.81	125.90
26	BB	202	U	C5'-C4'-O4'	8.18	118.91	109.10
26	BB	2044	C	C6-N1-C2	-8.18	117.03	120.30
26	BB	2625	G	C2-N3-C4	8.18	115.99	111.90
26	BB	842	U	N1-C2-N3	8.18	119.81	114.90
26	BB	1104	C	N3-C2-O2	-8.18	116.18	121.90
26	BB	1189	A	C4-C5-C6	8.18	121.09	117.00
26	BB	1389	G	N3-C2-N2	-8.18	114.18	119.90
26	BB	1437	C	C5-C4-N4	-8.18	114.48	120.20
52	B1	29	ARG	NE-CZ-NH2	8.18	124.39	120.30
1	AA	108	G	O4'-C1'-C2'	8.17	114.96	107.60
1	AA	186	C	C6-N1-C2	-8.17	117.03	120.30
1	AA	1415	G	N3-C4-C5	-8.17	124.51	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	105	C	N3-C4-C5	8.17	125.17	121.90
26	BB	264	C	C4-C5-C6	8.17	121.49	117.40
26	BB	312	G	C6-C5-N7	-8.17	125.50	130.40
26	BB	313	G	N7-C8-N9	8.17	117.19	113.10
26	BB	2674	G	C4'-C3'-C2'	-8.17	94.43	102.60
1	AA	726	C	C6-N1-C2	-8.17	117.03	120.30
1	AA	1235	U	C5-C4-O4	8.17	130.80	125.90
2	AB	24	G	C5'-C4'-O4'	8.17	118.91	109.10
1	AA	485	U	C6-N1-C2	8.17	125.90	121.00
26	BB	600	G	C4-C5-C6	8.17	123.70	118.80
26	BB	704	G	C5-N7-C8	-8.17	100.22	104.30
26	BB	2020	A	N9-C4-C5	8.17	109.07	105.80
26	BB	1121	C	N3-C4-C5	8.17	125.17	121.90
26	BB	1611	C	C4-C5-C6	-8.17	113.32	117.40
1	AA	56	U	N1-C2-N3	8.17	119.80	114.90
2	AB	36	A	N1-C6-N6	-8.17	113.70	118.60
26	BB	823	C	C5'-C4'-O4'	8.17	118.90	109.10
26	BB	2071	A	C2-N3-C4	8.17	114.68	110.60
26	BB	2110	G	N3-C4-C5	-8.17	124.52	128.60
26	BB	2402	U	C5-C4-O4	-8.17	121.00	125.90
1	AA	85	U	N1-C2-N3	8.17	119.80	114.90
1	AA	455	G	N1-C2-N3	-8.17	119.00	123.90
26	BB	293	U	N3-C2-O2	-8.17	116.48	122.20
26	BB	2576	G	C4-C5-N7	-8.17	107.53	110.80
1	AA	359	G	N3-C4-C5	-8.16	124.52	128.60
1	AA	1347	G	N1-C2-N2	8.16	123.55	116.20
26	BB	2570	G	N7-C8-N9	8.16	117.18	113.10
1	AA	716	A	C5-N7-C8	8.16	107.98	103.90
26	BB	548	G	O4'-C1'-C2'	8.16	114.95	107.60
26	BB	969	G	C5-N7-C8	-8.16	100.22	104.30
26	BB	2385	C	C4-C5-C6	8.16	121.48	117.40
26	BB	2463	C	C3'-C2'-C1'	-8.16	94.97	101.50
26	BB	2855	C	C1'-O4'-C4'	8.16	116.43	109.90
1	AA	1037	C	N3-C2-O2	-8.16	116.19	121.90
1	AA	1358	U	C1'-O4'-C4'	8.16	116.43	109.90
26	BB	897	C	N3-C4-N4	-8.16	112.29	118.00
26	BB	1004	U	C6-N1-C2	-8.16	116.10	121.00
26	BB	1072	C	N1-C2-N3	-8.16	113.49	119.20
26	BB	736	C	C6-N1-C2	-8.16	117.04	120.30
26	BB	2068	U	C4-C5-C6	8.16	124.60	119.70
1	AA	143	A	C8-N9-C4	-8.16	102.54	105.80
1	AA	1530	G	N9-C1'-C2'	-8.16	103.03	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	AG	46	ARG	NE-CZ-NH2	-8.16	116.22	120.30
26	BB	451	U	C5-C4-O4	8.16	130.80	125.90
26	BB	878	A	C4-C5-N7	8.16	114.78	110.70
26	BB	1038	G	N3-C4-N9	8.16	130.90	126.00
26	BB	1068	G	N7-C8-N9	8.16	117.18	113.10
26	BB	1626	A	C8-N9-C4	-8.16	102.54	105.80
26	BB	2100	G	N3-C2-N2	8.16	125.61	119.90
26	BB	2199	A	C2-N3-C4	8.16	114.68	110.60
27	BC	21	TYR	CB-CG-CD1	-8.16	116.10	121.00
1	AA	987	G	N7-C8-N9	-8.16	109.02	113.10
26	BB	309	A	C2-N3-C4	8.16	114.68	110.60
1	AA	236	A	O4'-C1'-N9	8.16	114.72	108.20
1	AA	1182	G	C8-N9-C4	-8.16	103.14	106.40
26	BB	753	A	N9-C4-C5	8.16	109.06	105.80
26	BB	2010	G	C5-C6-N1	8.16	115.58	111.50
26	BB	2176	A	N1-C6-N6	-8.16	113.71	118.60
26	BB	2650	U	C5-C6-N1	8.16	126.78	122.70
26	BB	2749	A	N3-C4-C5	-8.16	121.09	126.80
1	AA	662	U	O4'-C1'-N1	8.15	114.72	108.20
1	AA	108	G	N3-C4-C5	-8.15	124.52	128.60
1	AA	245	U	O4'-C1'-N1	8.15	114.72	108.20
1	AA	812	G	C5-N7-C8	-8.15	100.22	104.30
1	AA	964	A	C5-N7-C8	-8.15	99.82	103.90
26	BB	1617	C	N1-C2-O2	8.15	123.79	118.90
1	AA	1385	G	C4-C5-C6	-8.15	113.91	118.80
1	AA	1387	G	C8-N9-C4	-8.15	103.14	106.40
26	BB	205	G	C5-N7-C8	-8.15	100.22	104.30
26	BB	533	G	C5-N7-C8	-8.15	100.22	104.30
26	BB	2107	G	O4'-C1'-N9	8.15	114.72	108.20
26	BB	916	G	C6-C5-N7	-8.15	125.51	130.40
1	AA	296	U	C2-N3-C4	-8.15	122.11	127.00
26	BB	26	G	C6-N1-C2	-8.15	120.21	125.10
26	BB	300	A	N9-C1'-C2'	-8.15	103.03	112.00
26	BB	446	G	N3-C4-C5	-8.15	124.53	128.60
26	BB	656	G	N9-C4-C5	8.15	108.66	105.40
26	BB	1548	A	N1-C6-N6	8.15	123.49	118.60
26	BB	1589	U	N1-C2-O2	-8.15	117.09	122.80
26	BB	1636	U	O4'-C1'-N1	8.15	114.72	108.20
26	BB	1672	A	C4'-C3'-C2'	-8.15	94.45	102.60
26	BB	2412	A	C1'-O4'-C4'	-8.15	103.38	109.90
52	B1	15	ARG	NE-CZ-NH1	8.15	124.38	120.30
26	BB	1326	U	O4'-C1'-N1	8.15	114.72	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	765	G	C6-C5-N7	-8.15	125.51	130.40
26	BB	2494	G	C5-C6-O6	8.15	133.49	128.60
26	BB	2845	U	C4-C5-C6	8.15	124.59	119.70
1	AA	1105	A	C3'-C2'-C1'	8.15	108.02	101.50
26	BB	555	G	N3-C4-C5	-8.15	124.53	128.60
26	BB	616	A	C6-N1-C2	-8.15	113.71	118.60
26	BB	728	G	C2-N3-C4	8.15	115.97	111.90
26	BB	849	A	C3'-C2'-C1'	8.15	108.02	101.50
1	AA	165	G	O4'-C1'-N9	8.14	114.72	108.20
1	AA	188	C	C2-N3-C4	8.14	123.97	119.90
1	AA	1339	A	C4-C5-N7	-8.14	106.63	110.70
26	BB	1815	A	C4-C5-C6	-8.14	112.93	117.00
26	BB	2102	G	O4'-C1'-N9	8.14	114.72	108.20
1	AA	1288	A	C8-N9-C4	-8.14	102.54	105.80
1	AA	1459	G	N9-C4-C5	8.14	108.66	105.40
26	BB	426	C	C6-N1-C2	-8.14	117.04	120.30
16	AP	85	TYR	CB-CG-CD1	-8.14	116.12	121.00
25	BA	26	C	N3-C4-N4	8.14	123.70	118.00
26	BB	130	C	N1-C2-O2	8.14	123.78	118.90
26	BB	1081	U	N1-C2-N3	8.14	119.78	114.90
26	BB	2332	C	N1-C2-O2	8.14	123.78	118.90
1	AA	919	A	N7-C8-N9	8.14	117.87	113.80
25	BA	86	G	N1-C6-O6	-8.14	115.02	119.90
26	BB	338	G	C1'-O4'-C4'	-8.14	103.39	109.90
25	BA	111	U	N1-C1'-C2'	-8.14	103.05	112.00
26	BB	237	C	C6-N1-C2	8.14	123.56	120.30
26	BB	238	C	C5-C6-N1	-8.14	116.93	121.00
26	BB	393	C	O4'-C1'-N1	8.14	114.71	108.20
26	BB	1232	G	C6-C5-N7	-8.14	125.52	130.40
26	BB	1254	A	C4-C5-N7	-8.14	106.63	110.70
26	BB	1688	U	C5-C6-N1	-8.14	118.63	122.70
26	BB	2475	C	O4'-C1'-C2'	-8.14	97.66	105.80
26	BB	2524	G	C2-N3-C4	8.14	115.97	111.90
26	BB	2719	G	C4-C5-C6	8.14	123.68	118.80
26	BB	2896	C	C4-C5-C6	-8.14	113.33	117.40
1	AA	262	A	N1-C6-N6	8.13	123.48	118.60
1	AA	597	G	O4'-C1'-N9	8.14	114.71	108.20
1	AA	1344	C	C5-C6-N1	8.14	125.07	121.00
2	AB	12	U	C2-N3-C4	-8.14	122.12	127.00
26	BB	1275	A	P-O3'-C3'	8.14	129.46	119.70
1	AA	826	C	C3'-C2'-C1'	8.13	108.01	101.50
26	BB	1784	A	N9-C4-C5	8.13	109.05	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	329	A	C4-C5-N7	-8.13	106.63	110.70
1	AA	485	U	P-O3'-C3'	8.13	129.46	119.70
1	AA	1100	C	C6-N1-C2	-8.13	117.05	120.30
1	AA	1536	C	C6-N1-C2	-8.13	117.05	120.30
26	BB	484	C	N3-C4-C5	-8.13	118.65	121.90
1	AA	763	G	C5-C6-N1	8.13	115.56	111.50
4	AD	10	G	N9-C4-C5	-8.13	102.15	105.40
26	BB	2431	U	O4'-C1'-N1	8.13	114.71	108.20
26	BB	400	G	N7-C8-N9	8.13	117.17	113.10
26	BB	1215	G	N9-C4-C5	-8.13	102.15	105.40
26	BB	1384	A	N1-C6-N6	-8.13	113.72	118.60
26	BB	1468	U	N3-C2-O2	-8.13	116.51	122.20
26	BB	1840	G	O4'-C1'-N9	8.13	114.70	108.20
26	BB	2814	A	C3'-C2'-C1'	-8.13	95.00	101.50
2	AB	48	U	C5'-C4'-O4'	8.13	118.85	109.10
26	BB	320	A	C4-C5-C6	-8.13	112.94	117.00
1	AA	748	G	C6-N1-C2	-8.13	120.22	125.10
1	AA	945	G	N3-C4-N9	8.13	130.88	126.00
1	AA	1326	U	C4-C5-C6	8.13	124.58	119.70
26	BB	160	A	C2-N3-C4	-8.13	106.54	110.60
26	BB	619	G	N9-C4-C5	8.13	108.65	105.40
26	BB	864	G	C5'-C4'-O4'	8.13	118.85	109.10
26	BB	2903	U	O4'-C1'-N1	-8.13	101.70	108.20
39	BO	50	ARG	NE-CZ-NH1	8.13	124.36	120.30
1	AA	668	G	C4-C5-N7	8.12	114.05	110.80
1	AA	1197	A	N1-C6-N6	-8.12	113.72	118.60
26	BB	100	U	C1'-O4'-C4'	-8.12	103.40	109.90
26	BB	106	C	N3-C4-N4	8.12	123.69	118.00
26	BB	376	G	N3-C4-C5	-8.13	124.54	128.60
26	BB	1429	G	C8-N9-C4	-8.13	103.15	106.40
26	BB	498	G	N3-C4-N9	8.12	130.87	126.00
26	BB	502	A	N1-C2-N3	-8.12	125.24	129.30
26	BB	1472	C	C5-C6-N1	8.12	125.06	121.00
26	BB	1710	G	C4-C5-N7	8.12	114.05	110.80
1	AA	521	G	C2-N3-C4	8.12	115.96	111.90
1	AA	1278	G	N1-C6-O6	-8.12	115.03	119.90
1	AA	1410	A	C5-N7-C8	8.12	107.96	103.90
26	BB	719	C	C4-C5-C6	8.12	121.46	117.40
1	AA	1522	U	O4'-C1'-N1	8.12	114.70	108.20
25	BA	39	A	N7-C8-N9	-8.12	109.74	113.80
26	BB	2722	G	N9-C4-C5	8.12	108.65	105.40
26	BB	2809	A	N1-C6-N6	-8.12	113.73	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2897	U	C2-N3-C4	-8.12	122.13	127.00
1	AA	601	G	N3-C4-C5	-8.12	124.54	128.60
26	BB	785	G	C1'-O4'-C4'	8.12	116.39	109.90
26	BB	1015	U	O4'-C1'-N1	8.12	114.70	108.20
26	BB	2147	A	C8-N9-C4	-8.12	102.55	105.80
1	AA	374	A	N9-C1'-C2'	-8.12	103.07	112.00
1	AA	1520	C	N1-C2-O2	8.12	123.77	118.90
26	BB	587	C	O4'-C1'-N1	8.12	114.69	108.20
26	BB	1165	A	N7-C8-N9	-8.12	109.74	113.80
26	BB	1540	G	N7-C8-N9	8.12	117.16	113.10
26	BB	1739	A	C4-C5-N7	-8.12	106.64	110.70
26	BB	2281	A	O4'-C1'-N9	8.12	114.69	108.20
1	AA	601	G	C4-C5-N7	8.12	114.05	110.80
1	AA	640	A	C2-N3-C4	8.12	114.66	110.60
1	AA	703	G	C4-C5-N7	8.12	114.05	110.80
1	AA	910	C	N3-C4-C5	8.12	125.15	121.90
26	BB	1277	G	N3-C4-C5	-8.12	124.54	128.60
26	BB	1522	A	C4-C5-C6	-8.12	112.94	117.00
1	AA	763	G	C4'-C3'-C2'	-8.11	94.49	102.60
26	BB	1492	G	C5-C6-N1	-8.11	107.44	111.50
26	BB	1659	G	C2-N3-C4	8.11	115.96	111.90
26	BB	2078	C	C5'-C4'-O4'	8.12	118.84	109.10
26	BB	2269	G	C8-N9-C4	-8.12	103.15	106.40
26	BB	2697	G	N9-C4-C5	8.11	108.64	105.40
1	AA	1049	U	O4'-C1'-N1	8.11	114.69	108.20
26	BB	1472	C	N3-C4-N4	8.11	123.68	118.00
1	AA	42	G	N7-C8-N9	8.11	117.16	113.10
1	AA	126	G	O4'-C1'-N9	8.11	114.69	108.20
1	AA	1305	G	C4-C5-N7	8.11	114.05	110.80
1	AA	1461	G	N1-C2-N3	8.11	128.77	123.90
1	AA	1506	U	N3-C2-O2	-8.11	116.52	122.20
26	BB	1233	C	C2-N3-C4	8.11	123.96	119.90
6	AF	87	ARG	NE-CZ-NH2	-8.11	116.25	120.30
26	BB	1904	G	N9-C1'-C2'	-8.11	103.08	112.00
26	BB	2782	G	C6-C5-N7	-8.11	125.53	130.40
26	BB	817	C	N1-C2-N3	-8.11	113.52	119.20
26	BB	1246	A	O4'-C1'-N9	8.11	114.69	108.20
1	AA	858	G	C6-C5-N7	-8.11	125.53	130.40
2	AB	5	G	N3-C4-C5	-8.11	124.55	128.60
25	BA	68	C	C6-N1-C2	-8.11	117.06	120.30
26	BB	265	A	C5-N7-C8	-8.11	99.85	103.90
26	BB	1547	C	O4'-C1'-N1	8.11	114.69	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1852	U	N3-C4-O4	8.11	125.08	119.40
26	BB	2187	U	N3-C4-O4	8.11	125.08	119.40
26	BB	2346	A	C8-N9-C4	-8.11	102.56	105.80
1	AA	1099	G	C5-C6-O6	-8.11	123.74	128.60
25	BA	76	G	O4'-C1'-N9	8.11	114.69	108.20
26	BB	88	G	N9-C1'-C2'	-8.11	103.08	112.00
26	BB	770	G	C4-C5-N7	8.11	114.04	110.80
26	BB	1226	A	C5-C6-N1	8.11	121.75	117.70
1	AA	57	G	C4-C5-N7	-8.10	107.56	110.80
1	AA	227	G	C4-C5-N7	-8.10	107.56	110.80
1	AA	860	A	O5'-P-OP2	-8.10	98.41	105.70
1	AA	974	A	C4'-C3'-C2'	-8.10	94.50	102.60
1	AA	1310	G	C6-N1-C2	-8.10	120.24	125.10
1	AA	1216	A	C4-C5-C6	8.10	121.05	117.00
26	BB	948	C	O4'-C1'-N1	8.10	114.68	108.20
26	BB	1450	G	C2-N3-C4	8.10	115.95	111.90
26	BB	2314	A	N9-C4-C5	-8.10	102.56	105.80
26	BB	2338	C	N3-C2-O2	-8.10	116.23	121.90
34	BJ	60	ARG	NE-CZ-NH2	8.10	124.35	120.30
1	AA	628	G	N3-C4-N9	-8.10	121.14	126.00
1	AA	841	C	N1-C2-O2	8.10	123.76	118.90
26	BB	806	C	N3-C4-C5	-8.10	118.66	121.90
26	BB	1052	C	C4-C5-C6	-8.10	113.35	117.40
25	BA	57	A	N3-C4-N9	8.10	133.88	127.40
47	BW	95	PHE	CB-CG-CD1	-8.10	115.13	120.80
1	AA	58	C	C6-N1-C2	8.10	123.54	120.30
1	AA	129	A	O4'-C1'-N9	8.10	114.68	108.20
1	AA	135	C	O4'-C1'-N1	8.10	114.68	108.20
2	AB	1	A	C5-C6-N6	8.10	130.18	123.70
25	BA	8	C	C2-N3-C4	8.10	123.95	119.90
1	AA	181	A	C3'-C2'-C1'	-8.10	95.02	101.50
1	AA	394	G	C5-C6-O6	-8.10	123.74	128.60
1	AA	523	A	O4'-C1'-N9	8.10	114.68	108.20
25	BA	46	A	N7-C8-N9	-8.10	109.75	113.80
26	BB	466	A	N3-C4-C5	-8.10	121.13	126.80
26	BB	481	G	O4'-C1'-N9	8.10	114.68	108.20
26	BB	723	C	N3-C2-O2	-8.10	116.23	121.90
1	AA	263	A	N3-C4-C5	-8.09	121.14	126.80
7	AG	96	ARG	NE-CZ-NH2	8.09	124.35	120.30
26	BB	752	A	C5'-C4'-C3'	-8.09	103.05	116.00
26	BB	1522	A	O4'-C1'-N9	8.09	114.67	108.20
1	AA	334	C	O4'-C1'-N1	8.09	114.67	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	24	C	C5-C4-N4	-8.09	114.53	120.20
26	BB	1362	C	N3-C4-C5	-8.09	118.66	121.90
26	BB	2293	G	C5-C6-N1	8.09	115.55	111.50
29	BE	103	ASP	CB-CG-OD1	-8.09	111.02	118.30
26	BB	2516	A	N7-C8-N9	-8.09	109.75	113.80
26	BB	265	A	C5'-C4'-O4'	8.09	118.81	109.10
26	BB	336	C	C2-N3-C4	-8.09	115.86	119.90
26	BB	785	G	C8-N9-C4	-8.09	103.16	106.40
26	BB	410	G	N3-C2-N2	-8.09	114.24	119.90
26	BB	507	A	N1-C6-N6	-8.09	113.75	118.60
26	BB	993	G	C4-C5-C6	-8.09	113.95	118.80
26	BB	2559	C	P-O3'-C3'	8.09	129.41	119.70
1	AA	71	A	N9-C1'-C2'	-8.09	103.10	112.00
1	AA	1086	U	N1-C2-N3	8.09	119.75	114.90
1	AA	95	C	C6-N1-C2	-8.09	117.07	120.30
1	AA	722	G	N7-C8-N9	-8.09	109.06	113.10
1	AA	914	A	C2-N3-C4	8.09	114.64	110.60
26	BB	1278	C	C6-N1-C2	-8.09	117.06	120.30
1	AA	575	G	N3-C4-N9	8.09	130.85	126.00
26	BB	541	A	C5-N7-C8	8.09	107.94	103.90
1	AA	300	A	N1-C6-N6	8.08	123.45	118.60
1	AA	346	G	C5-C6-O6	-8.08	123.75	128.60
1	AA	1202	U	C5-C4-O4	8.08	130.75	125.90
1	AA	569	C	N3-C4-C5	-8.08	118.67	121.90
1	AA	584	G	C6-C5-N7	-8.08	125.55	130.40
26	BB	728	G	N7-C8-N9	8.08	117.14	113.10
26	BB	969	G	C2-N3-C4	8.08	115.94	111.90
26	BB	1436	G	C6-C5-N7	-8.08	125.55	130.40
26	BB	1928	A	C6-C5-N7	8.08	137.96	132.30
26	BB	2579	C	C4-C5-C6	-8.08	113.36	117.40
1	AA	939	G	C5-N7-C8	8.08	108.34	104.30
26	BB	2700	A	C8-N9-C4	-8.08	102.57	105.80
26	BB	2904	U	C2-N3-C4	-8.08	122.15	127.00
1	AA	76	G	C5'-C4'-O4'	8.08	118.80	109.10
1	AA	1403	C	C6-N1-C2	8.08	123.53	120.30
2	AB	4	G	C4-C5-N7	8.08	114.03	110.80
26	BB	628	G	C4'-C3'-C2'	-8.08	94.52	102.60
26	BB	757	G	C4-C5-N7	-8.08	107.57	110.80
26	BB	958	U	C5-C4-O4	8.08	130.75	125.90
1	AA	1139	G	N1-C6-O6	-8.08	115.05	119.90
1	AA	5	U	C5-C6-N1	-8.08	118.66	122.70
1	AA	1480	A	N1-C2-N3	8.08	133.34	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	25	C	O4'-C1'-N1	8.08	114.66	108.20
26	BB	175	G	C6-N1-C2	-8.08	120.25	125.10
26	BB	433	C	C5-C6-N1	8.08	125.04	121.00
26	BB	187	G	C5-N7-C8	8.08	108.34	104.30
26	BB	1042	G	C3'-C2'-C1'	-8.08	95.04	101.50
26	BB	1212	G	C4-C5-C6	8.08	123.65	118.80
26	BB	1511	G	N9-C4-C5	8.08	108.63	105.40
26	BB	2165	C	C4'-C3'-C2'	-8.08	94.52	102.60
26	BB	2683	C	C4-C5-C6	-8.08	113.36	117.40
1	AA	522	C	O4'-C1'-C2'	-8.07	97.73	105.80
1	AA	718	A	C1'-O4'-C4'	8.07	116.36	109.90
1	AA	1174	G	C5-C6-O6	-8.07	123.76	128.60
1	AA	1208	C	C5-C6-N1	-8.07	116.96	121.00
1	AA	1222	G	C6-N1-C2	-8.07	120.26	125.10
33	BI	68	ARG	NE-CZ-NH2	-8.07	116.26	120.30
2	AB	27	C	C5-C4-N4	-8.07	114.55	120.20
26	BB	825	A	C5-C6-N1	8.07	121.74	117.70
26	BB	2845	U	N3-C4-C5	-8.07	109.75	114.60
26	BB	1080	A	C8-N9-C4	-8.07	102.57	105.80
26	BB	1993	U	N1-C2-N3	8.07	119.74	114.90
1	AA	1527	U	C1'-O4'-C4'	8.07	116.36	109.90
2	AB	29	G	C4-C5-N7	-8.07	107.57	110.80
26	BB	2439	A	N3-C4-C5	-8.07	121.15	126.80
1	AA	1129	C	N3-C4-C5	-8.07	118.67	121.90
1	AA	1485	U	C3'-C2'-C1'	8.07	107.95	101.50
2	AB	23	A	N9-C4-C5	-8.07	102.57	105.80
26	BB	654	A	N1-C6-N6	8.07	123.44	118.60
26	BB	816	C	N3-C4-N4	8.07	123.65	118.00
26	BB	1066	U	C1'-O4'-C4'	8.07	116.36	109.90
26	BB	2285	C	N1-C2-O2	-8.07	114.06	118.90
26	BB	2446	G	N3-C4-C5	-8.07	124.56	128.60
1	AA	1510	C	C4'-C3'-C2'	-8.07	94.53	102.60
3	AC	43	U	O4'-C1'-N1	8.07	114.65	108.20
26	BB	10	A	N7-C8-N9	-8.07	109.77	113.80
26	BB	910	A	N3-C4-C5	-8.07	121.15	126.80
26	BB	1270	C	N1-C2-O2	8.07	123.74	118.90
26	BB	1852	U	N3-C4-C5	-8.07	109.76	114.60
26	BB	2526	G	C2-N3-C4	8.07	115.93	111.90
1	AA	238	A	N1-C6-N6	-8.06	113.76	118.60
1	AA	1232	U	C5-C4-O4	-8.06	121.06	125.90
1	AA	1408	A	C4'-C3'-C2'	-8.06	94.53	102.60
1	AA	1375	A	N9-C4-C5	-8.06	102.58	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	32	U	C4'-C3'-C2'	-8.06	94.54	102.60
26	BB	279	A	C5-N7-C8	8.06	107.93	103.90
26	BB	942	G	O4'-C1'-N9	8.06	114.65	108.20
26	BB	2501	C	O4'-C1'-N1	8.06	114.65	108.20
26	BB	2752	C	C4-C5-C6	-8.06	113.37	117.40
26	BB	1124	G	C6-N1-C2	-8.06	120.26	125.10
26	BB	2206	C	O4'-C1'-N1	8.06	114.65	108.20
1	AA	240	G	C5'-C4'-C3'	8.06	128.90	116.00
1	AA	677	U	N3-C2-O2	-8.06	116.56	122.20
1	AA	758	C	N3-C2-O2	-8.06	116.26	121.90
1	AA	1217	C	C5-C6-N1	8.06	125.03	121.00
4	AD	22	A	C5-N7-C8	-8.06	99.87	103.90
26	BB	909	A	C8-N9-C4	-8.06	102.58	105.80
26	BB	2563	U	C5-C6-N1	8.06	126.73	122.70
26	BB	2729	G	C4-C5-N7	-8.06	107.58	110.80
49	BY	38	ARG	NE-CZ-NH2	-8.06	116.27	120.30
1	AA	151	A	C4-C5-N7	-8.06	106.67	110.70
26	BB	508	A	N1-C6-N6	-8.06	113.77	118.60
26	BB	1355	G	N7-C8-N9	-8.06	109.07	113.10
1	AA	1195	C	C4-C5-C6	8.06	121.43	117.40
26	BB	189	G	C1'-O4'-C4'	-8.06	103.45	109.90
26	BB	1100	C	C3'-C2'-C1'	8.06	107.95	101.50
26	BB	1680	U	C5-C4-O4	-8.06	121.07	125.90
26	BB	1821	A	N1-C6-N6	8.06	123.43	118.60
26	BB	2411	A	N3-C4-N9	-8.06	120.95	127.40
1	AA	229	U	O4'-C1'-N1	8.05	114.64	108.20
1	AA	390	U	O5'-P-OP2	-8.05	98.45	105.70
1	AA	416	G	O4'-C1'-N9	8.05	114.64	108.20
1	AA	667	G	C5-N7-C8	8.05	108.33	104.30
1	AA	1180	A	O4'-C4'-C3'	8.05	112.54	106.10
25	BA	16	G	C2-N3-C4	8.05	115.93	111.90
26	BB	190	A	O4'-C1'-N9	8.05	114.64	108.20
26	BB	2021	C	C2-N3-C4	8.05	123.93	119.90
26	BB	2509	G	N3-C4-N9	8.06	130.83	126.00
26	BB	2553	G	N3-C4-N9	8.05	130.83	126.00
26	BB	629	G	C6-C5-N7	-8.05	125.57	130.40
26	BB	1576	U	N3-C2-O2	-8.05	116.56	122.20
29	BE	179	ARG	NE-CZ-NH2	-8.05	116.27	120.30
1	AA	1078	U	C3'-C2'-C1'	8.05	107.94	101.50
26	BB	837	C	N3-C4-N4	8.05	123.64	118.00
1	AA	347	G	N3-C4-C5	-8.05	124.58	128.60
1	AA	515	G	C8-N9-C4	-8.05	103.18	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	25	U	C5-C4-O4	8.05	130.73	125.90
3	AC	33	A	N1-C6-N6	-8.05	113.77	118.60
4	AD	40	C	O4'-C1'-N1	8.05	114.64	108.20
26	BB	381	G	C6-N1-C2	-8.05	120.27	125.10
26	BB	456	C	N3-C4-C5	-8.05	118.68	121.90
26	BB	524	G	N3-C4-N9	-8.05	121.17	126.00
26	BB	1101	U	C2-N3-C4	-8.05	122.17	127.00
26	BB	1333	G	O4'-C4'-C3'	-8.05	95.95	104.00
25	BA	26	C	N3-C4-C5	-8.05	118.68	121.90
1	AA	467	U	C5-C6-N1	-8.05	118.68	122.70
26	BB	1001	A	C2-N3-C4	8.05	114.62	110.60
26	BB	1486	U	N1-C2-N3	8.05	119.73	114.90
26	BB	301	G	N3-C4-C5	-8.05	124.58	128.60
26	BB	608	A	N1-C6-N6	-8.05	113.77	118.60
26	BB	667	U	C2-N3-C4	-8.05	122.17	127.00
26	BB	2740	A	N1-C6-N6	8.05	123.43	118.60
1	AA	382	A	N1-C6-N6	-8.04	113.77	118.60
26	BB	1136	G	P-O3'-C3'	8.04	129.35	119.70
26	BB	1142	A	C1'-O4'-C4'	8.04	116.34	109.90
26	BB	1354	A	N7-C8-N9	8.04	117.82	113.80
26	BB	1734	G	C5-C6-O6	-8.04	123.77	128.60
1	AA	344	A	C2-N3-C4	8.04	114.62	110.60
1	AA	381	C	P-O3'-C3'	8.04	129.35	119.70
1	AA	724	G	C5-C6-O6	-8.04	123.78	128.60
1	AA	1048	G	C5-C6-O6	-8.04	123.78	128.60
26	BB	440	C	C5'-C4'-O4'	8.04	118.75	109.10
26	BB	843	G	C4-C5-N7	-8.04	107.58	110.80
1	AA	1466	C	C5-C4-N4	-8.04	114.57	120.20
26	BB	441	U	O4'-C1'-N1	8.04	114.63	108.20
26	BB	2029	G	N3-C4-C5	-8.04	124.58	128.60
26	BB	2081	U	N1-C2-O2	-8.04	117.17	122.80
26	BB	2623	G	C4-C5-N7	-8.04	107.58	110.80
1	AA	517	G	C5-C6-O6	-8.04	123.78	128.60
1	AA	759	A	N3-C4-C5	-8.04	121.17	126.80
26	BB	123	G	N1-C2-N2	8.04	123.44	116.20
26	BB	853	C	N3-C2-O2	-8.04	116.27	121.90
26	BB	1059	G	C1'-O4'-C4'	-8.04	103.47	109.90
26	BB	1653	G	N3-C4-C5	-8.04	124.58	128.60
26	BB	2254	C	C4-C5-C6	-8.04	113.38	117.40
1	AA	498	A	N3-C4-C5	-8.04	121.17	126.80
1	AA	563	A	N1-C2-N3	-8.04	125.28	129.30
1	AA	1409	C	C5'-C4'-O4'	8.04	118.75	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	AE	29	PHE	CB-CG-CD1	-8.04	115.17	120.80
25	BA	26	C	N1-C2-O2	8.04	123.72	118.90
26	BB	1277	G	O4'-C1'-N9	8.04	114.63	108.20
26	BB	2140	G	C4'-C3'-C2'	-8.04	94.56	102.60
1	AA	377	G	N1-C6-O6	-8.04	115.08	119.90
1	AA	577	G	N9-C4-C5	8.04	108.61	105.40
26	BB	1199	U	C5'-C4'-O4'	8.04	118.74	109.10
1	AA	487	A	C5-C6-N1	8.03	121.72	117.70
1	AA	1183	U	N3-C2-O2	-8.03	116.58	122.20
26	BB	35	G	N3-C4-N9	8.04	130.82	126.00
26	BB	177	G	C8-N9-C4	-8.04	103.19	106.40
26	BB	480	A	N7-C8-N9	-8.03	109.78	113.80
26	BB	681	G	C2-N3-C4	8.04	115.92	111.90
26	BB	2450	A	C3'-C2'-C1'	8.04	107.93	101.50
26	BB	2134	A	N1-C2-N3	-8.03	125.28	129.30
1	AA	1130	A	N1-C2-N3	8.03	133.32	129.30
26	BB	1491	G	N3-C4-C5	-8.03	124.58	128.60
26	BB	677	A	N3-C4-N9	-8.03	120.97	127.40
26	BB	2493	U	C6-N1-C2	-8.03	116.18	121.00
26	BB	2890	G	C8-N9-C4	-8.03	103.19	106.40
1	AA	160	A	C6-N1-C2	8.03	123.42	118.60
3	AC	49	U	C5-C4-O4	-8.03	121.08	125.90
26	BB	2446	G	C5-N7-C8	8.03	108.31	104.30
1	AA	1258	G	C4-C5-N7	8.03	114.01	110.80
26	BB	463	G	C8-N9-C4	-8.03	103.19	106.40
26	BB	2430	A	C1'-O4'-C4'	-8.03	103.48	109.90
53	B2	35	ASP	CB-CG-OD2	-8.03	111.07	118.30
1	AA	1020	G	C6-N1-C2	-8.03	120.28	125.10
26	BB	795	C	C3'-C2'-C1'	-8.03	95.08	101.50
4	AD	15	G	C5-C6-N1	8.03	115.51	111.50
25	BA	35	C	C5'-C4'-O4'	8.03	118.73	109.10
25	BA	104	A	N3-C4-C5	-8.03	121.18	126.80
26	BB	799	G	N1-C2-N3	-8.03	119.08	123.90
26	BB	2743	U	O4'-C1'-N1	8.03	114.62	108.20
9	AI	78	PHE	CB-CG-CD1	8.02	126.42	120.80
26	BB	1346	G	N1-C6-O6	-8.02	115.08	119.90
1	AA	648	A	C4-C5-N7	-8.02	106.69	110.70
2	AB	74	C	N1-C2-O2	8.02	123.71	118.90
26	BB	1448	G	N1-C6-O6	-8.02	115.09	119.90
1	AA	61	G	N9-C1'-C2'	-8.02	103.18	112.00
1	AA	579	A	O4'-C4'-C3'	8.02	112.52	106.10
26	BB	855	G	C6-N1-C2	-8.02	120.29	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1925	C	C6-N1-C2	-8.02	117.09	120.30
1	AA	346	G	C4-C5-N7	-8.02	107.59	110.80
1	AA	411	A	C8-N9-C4	-8.02	102.59	105.80
26	BB	455	C	C4-C5-C6	-8.02	113.39	117.40
26	BB	1889	A	C4-C5-N7	-8.02	106.69	110.70
26	BB	2128	G	C6-C5-N7	-8.02	125.59	130.40
26	BB	2173	A	O4'-C1'-C2'	8.02	114.82	107.60
47	BW	76	THR	CA-CB-CG2	8.02	123.63	112.40
4	AD	23	G	C6-C5-N7	-8.02	125.59	130.40
8	AH	44	ARG	NE-CZ-NH2	-8.02	116.29	120.30
26	BB	239	C	N1-C2-O2	8.02	123.71	118.90
26	BB	504	A	C8-N9-C4	-8.02	102.59	105.80
26	BB	689	A	C4-C5-N7	8.02	114.71	110.70
26	BB	1415	U	N1-C2-N3	8.02	119.71	114.90
26	BB	710	U	C4-C5-C6	8.02	124.51	119.70
26	BB	1212	G	N9-C4-C5	8.02	108.61	105.40
26	BB	1401	G	N9-C4-C5	8.02	108.61	105.40
26	BB	2259	U	N3-C2-O2	-8.02	116.59	122.20
26	BB	2439	A	C4-C5-C6	8.02	121.01	117.00
1	AA	67	C	C6-N1-C2	-8.01	117.09	120.30
1	AA	131	A	C4-C5-C6	-8.01	112.99	117.00
1	AA	269	C	O4'-C1'-N1	8.01	114.61	108.20
26	BB	649	G	C5-C6-O6	-8.01	123.79	128.60
26	BB	896	A	C5-N7-C8	8.01	107.91	103.90
26	BB	1290	C	O4'-C1'-N1	8.01	114.61	108.20
1	AA	646	G	C4-C5-N7	-8.01	107.59	110.80
1	AA	851	G	N1-C6-O6	8.01	124.71	119.90
1	AA	1226	C	P-O3'-C3'	8.01	129.31	119.70
1	AA	1390	U	C5-C6-N1	-8.01	118.69	122.70
4	AD	43	G	N3-C4-N9	-8.01	121.19	126.00
26	BB	1378	A	C4-C5-N7	-8.01	106.69	110.70
26	BB	1806	C	N3-C2-O2	-8.01	116.29	121.90
26	BB	2375	G	C4'-C3'-C2'	-8.01	94.59	102.60
26	BB	2451	A	C8-N9-C4	8.01	109.00	105.80
28	BD	202	ARG	NE-CZ-NH1	8.01	124.31	120.30
1	AA	1318	A	C4-C5-C6	-8.01	112.99	117.00
3	AC	31	U	C3'-C2'-C1'	-8.01	95.09	101.50
26	BB	95	A	C4'-C3'-C2'	-8.01	94.59	102.60
26	BB	169	G	C4'-C3'-C2'	-8.01	94.59	102.60
26	BB	843	G	C6-C5-N7	8.01	135.21	130.40
26	BB	1524	G	C5-C6-N1	8.01	115.51	111.50
26	BB	250	G	C1'-O4'-C4'	-8.01	103.49	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	640	C	C5-C4-N4	-8.01	114.59	120.20
26	BB	905	A	N3-C4-N9	-8.01	120.99	127.40
26	BB	1382	G	C6-N1-C2	-8.01	120.29	125.10
26	BB	2607	G	C5-C6-O6	-8.01	123.79	128.60
26	BB	2715	C	C3'-C2'-C1'	8.01	107.91	101.50
26	BB	2737	G	N9-C4-C5	8.01	108.60	105.40
1	AA	111	G	C8-N9-C4	-8.01	103.20	106.40
26	BB	1061	U	N1-C2-O2	8.01	128.41	122.80
1	AA	919	A	C8-N9-C4	-8.01	102.60	105.80
1	AA	1014	A	P-O3'-C3'	8.01	129.31	119.70
2	AB	18	G	N3-C4-N9	8.01	130.80	126.00
26	BB	63	A	C1'-O4'-C4'	-8.01	103.50	109.90
26	BB	213	A	C1'-O4'-C4'	-8.01	103.50	109.90
26	BB	332	A	N1-C2-N3	-8.01	125.30	129.30
1	AA	785	G	N9-C4-C5	8.00	108.60	105.40
1	AA	855	U	N3-C4-C5	-8.00	109.80	114.60
1	AA	1500	A	N1-C2-N3	-8.00	125.30	129.30
4	AD	6	G	N3-C4-C5	-8.00	124.60	128.60
4	AD	59	A	C6-N1-C2	8.00	123.40	118.60
26	BB	434	U	N3-C2-O2	-8.00	116.60	122.20
26	BB	1462	C	C5-C6-N1	8.00	125.00	121.00
26	BB	1374	G	N9-C4-C5	8.00	108.60	105.40
26	BB	1669	A	N1-C2-N3	8.00	133.30	129.30
26	BB	1803	A	C2-N3-C4	8.00	114.60	110.60
1	AA	625	U	C4-C5-C6	8.00	124.50	119.70
1	AA	1521	C	C6-N1-C2	-8.00	117.10	120.30
26	BB	1217	U	O4'-C1'-N1	8.00	114.60	108.20
26	BB	1099	G	C4-C5-C6	8.00	123.60	118.80
1	AA	59	A	N1-C2-N3	-8.00	125.30	129.30
1	AA	923	A	C6-N1-C2	-8.00	113.80	118.60
1	AA	1028	C	O4'-C1'-N1	8.00	114.60	108.20
26	BB	1091	G	C6-C5-N7	8.00	135.20	130.40
26	BB	2043	C	O4'-C4'-C3'	8.00	112.50	106.10
1	AA	151	A	O4'-C1'-N9	8.00	114.60	108.20
1	AA	639	G	N3-C4-C5	-8.00	124.60	128.60
1	AA	899	C	N3-C2-O2	-8.00	116.30	121.90
25	BA	33	G	C8-N9-C4	8.00	109.60	106.40
26	BB	2063	C	C6-N1-C2	8.00	123.50	120.30
26	BB	2152	G	C4-C5-C6	8.00	123.60	118.80
26	BB	817	C	C4'-C3'-C2'	-7.99	94.61	102.60
26	BB	1845	G	N9-C4-C5	7.99	108.60	105.40
26	BB	2374	C	N3-C4-C5	-7.99	118.70	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2669	G	C4-C5-C6	7.99	123.60	118.80
1	AA	497	G	P-O3'-C3'	7.99	129.29	119.70
26	BB	2859	G	N1-C2-N2	-7.99	109.01	116.20
1	AA	751	U	C4-C5-C6	7.99	124.50	119.70
1	AA	946	A	N1-C2-N3	-7.99	125.31	129.30
25	BA	69	G	N7-C8-N9	-7.99	109.10	113.10
26	BB	80	G	C6-N1-C2	-7.99	120.31	125.10
26	BB	115	C	C5-C4-N4	-7.99	114.61	120.20
26	BB	870	U	C5-C4-O4	7.99	130.69	125.90
26	BB	1337	G	C5-C6-O6	-7.99	123.81	128.60
26	BB	1465	G	N3-C4-N9	-7.99	121.21	126.00
26	BB	1501	G	N9-C1'-C2'	-7.99	103.21	112.00
26	BB	2863	C	C5-C6-N1	7.99	125.00	121.00
1	AA	919	A	C5-N7-C8	-7.99	99.91	103.90
1	AA	1041	G	C5-N7-C8	-7.99	100.31	104.30
1	AA	1333	A	C8-N9-C4	-7.99	102.60	105.80
26	BB	1301	A	C5-C6-N1	7.99	121.69	117.70
26	BB	1517	G	N3-C4-N9	7.99	130.79	126.00
26	BB	1948	G	C2-N3-C4	7.99	115.89	111.90
26	BB	2653	U	O4'-C1'-N1	7.99	114.59	108.20
26	BB	2827	C	N1-C2-O2	7.99	123.69	118.90
13	AM	72	ARG	NE-CZ-NH2	-7.99	116.31	120.30
26	BB	549	G	N3-C4-C5	-7.99	124.61	128.60
42	BR	71	ARG	NE-CZ-NH1	7.99	124.29	120.30
1	AA	261	U	N3-C4-O4	-7.98	113.81	119.40
26	BB	379	G	O4'-C1'-N9	7.98	114.59	108.20
26	BB	622	G	N3-C4-C5	-7.98	124.61	128.60
26	BB	1838	C	C5-C4-N4	7.98	125.79	120.20
26	BB	675	A	C2-N3-C4	7.98	114.59	110.60
26	BB	1451	C	O4'-C1'-N1	7.98	114.59	108.20
1	AA	765	G	N1-C2-N3	7.98	128.69	123.90
1	AA	1053	G	C8-N9-C4	-7.98	103.21	106.40
2	AB	1	A	N1-C6-N6	-7.98	113.81	118.60
4	AD	3	C	C3'-C2'-C1'	-7.98	95.12	101.50
26	BB	616	A	N7-C8-N9	7.98	117.79	113.80
1	AA	965	U	C6-N1-C1'	-7.98	110.03	121.20
1	AA	1310	G	C6-C5-N7	7.98	135.19	130.40
26	BB	704	G	N9-C4-C5	7.98	108.59	105.40
26	BB	1338	G	N3-C4-N9	-7.98	121.21	126.00
26	BB	1519	G	C3'-C2'-C1'	7.98	107.88	101.50
26	BB	2317	A	N7-C8-N9	7.98	117.79	113.80
1	AA	848	C	O4'-C1'-N1	7.98	114.58	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	993	G	C2'-C3'-O3'	7.98	127.05	109.50
1	AA	1139	G	C6-N1-C2	-7.98	120.31	125.10
26	BB	834	G	O4'-C1'-C2'	-7.98	97.82	105.80
26	BB	1382	G	C4-C5-N7	-7.98	107.61	110.80
26	BB	1679	A	N1-C6-N6	7.98	123.39	118.60
1	AA	387	U	N3-C2-O2	-7.98	116.62	122.20
26	BB	2720	U	C5'-C4'-O4'	7.98	118.67	109.10
1	AA	752	G	C8-N9-C4	-7.97	103.21	106.40
1	AA	1159	U	C5-C4-O4	-7.97	121.12	125.90
26	BB	513	A	C8-N9-C4	-7.97	102.61	105.80
26	BB	806	C	C5-C4-N4	-7.97	114.62	120.20
26	BB	1880	U	C2-N3-C4	-7.97	122.22	127.00
26	BB	2284	A	C8-N9-C4	7.97	108.99	105.80
26	BB	2321	U	N1-C2-N3	7.97	119.68	114.90
26	BB	2329	U	C5-C4-O4	-7.97	121.11	125.90
26	BB	2352	A	N3-C4-C5	-7.97	121.22	126.80
29	BE	13	ARG	NH1-CZ-NH2	-7.97	110.63	119.40
1	AA	719	C	O4'-C4'-C3'	-7.97	96.03	104.00
1	AA	1183	U	C5-C6-N1	-7.97	118.71	122.70
26	BB	921	C	N1-C2-O2	7.97	123.68	118.90
26	BB	965	C	C4-C5-C6	-7.97	113.41	117.40
26	BB	1049	C	N1-C2-N3	-7.97	113.62	119.20
26	BB	1139	G	N9-C4-C5	7.97	108.59	105.40
26	BB	2672	U	N1-C2-N3	7.97	119.68	114.90
26	BB	1607	C	C5'-C4'-C3'	-7.97	103.25	116.00
1	AA	64	G	O4'-C1'-N9	7.97	114.58	108.20
1	AA	216	U	N3-C4-O4	7.97	124.98	119.40
26	BB	164	C	C6-N1-C2	-7.97	117.11	120.30
26	BB	347	A	C5'-C4'-O4'	7.97	118.66	109.10
26	BB	774	G	C3'-C2'-C1'	-7.97	95.12	101.50
26	BB	1078	U	C3'-C2'-C1'	-7.97	95.12	101.50
31	BG	168	LEU	CB-CG-CD1	7.97	124.55	111.00
26	BB	2348	U	N1-C2-N3	7.97	119.68	114.90
1	AA	213	G	C5'-C4'-O4'	7.97	118.66	109.10
1	AA	1211	U	N3-C2-O2	-7.97	116.62	122.20
26	BB	1081	U	C2-N3-C4	-7.97	122.22	127.00
26	BB	2238	G	C6-N1-C2	-7.97	120.32	125.10
1	AA	128	G	N3-C2-N2	-7.96	114.33	119.90
1	AA	388	G	C4-C5-N7	-7.96	107.61	110.80
1	AA	922	G	C5-N7-C8	-7.96	100.32	104.30
1	AA	942	G	C8-N9-C4	-7.96	103.21	106.40
26	BB	928	A	C6-C5-N7	7.96	137.88	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1591	A	N9-C4-C5	7.96	108.99	105.80
26	BB	2321	U	N3-C4-C5	-7.96	109.82	114.60
25	BA	104	A	C2-N3-C4	7.96	114.58	110.60
26	BB	658	U	C4-C5-C6	7.96	124.48	119.70
26	BB	2779	U	C5-C6-N1	-7.96	118.72	122.70
1	AA	886	G	O4'-C1'-N9	7.96	114.57	108.20
1	AA	959	A	C4-C5-N7	-7.96	106.72	110.70
1	AA	1441	A	O4'-C1'-N9	7.96	114.57	108.20
4	AD	34	U	N1-C2-O2	7.96	128.37	122.80
26	BB	1331	G	C8-N9-C4	-7.96	103.22	106.40
26	BB	1459	G	C5-N7-C8	-7.96	100.32	104.30
26	BB	1628	G	C8-N9-C4	-7.96	103.22	106.40
1	AA	237	G	N7-C8-N9	7.96	117.08	113.10
1	AA	462	G	C3'-C2'-C1'	-7.96	95.13	101.50
1	AA	542	G	C5'-C4'-C3'	-7.96	103.27	116.00
26	BB	424	G	N7-C8-N9	7.96	117.08	113.10
26	BB	466	A	N7-C8-N9	7.96	117.78	113.80
26	BB	2029	G	N1-C2-N3	-7.96	119.12	123.90
51	B0	29	ARG	NE-CZ-NH1	-7.96	116.32	120.30
1	AA	72	A	N1-C2-N3	-7.96	125.32	129.30
1	AA	450	G	C6-N1-C2	-7.96	120.33	125.10
26	BB	311	A	N9-C4-C5	-7.96	102.62	105.80
26	BB	482	A	C5-C6-N1	-7.96	113.72	117.70
26	BB	649	G	C5-C6-N1	7.96	115.48	111.50
26	BB	807	U	N3-C2-O2	-7.96	116.63	122.20
26	BB	983	A	N1-C2-N3	-7.96	125.32	129.30
26	BB	1613	G	C5-N7-C8	7.96	108.28	104.30
26	BB	1774	C	N3-C4-C5	7.96	125.08	121.90
26	BB	2311	A	C4-C5-N7	-7.96	106.72	110.70
1	AA	285	C	N3-C4-N4	7.96	123.57	118.00
1	AA	1403	C	N1-C2-N3	-7.96	113.63	119.20
17	AQ	35	ALA	CB-CA-C	7.96	122.03	110.10
26	BB	1607	C	C2-N3-C4	7.96	123.88	119.90
1	AA	1088	G	C2-N3-C4	-7.95	107.92	111.90
1	AA	1289	A	C6-N1-C2	7.95	123.37	118.60
26	BB	442	G	N1-C6-O6	7.95	124.67	119.90
26	BB	1651	G	C2-N3-C4	7.95	115.88	111.90
26	BB	2491	U	C5-C6-N1	-7.95	118.72	122.70
26	BB	2645	G	C6-N1-C2	-7.95	120.33	125.10
1	AA	774	G	N9-C4-C5	-7.95	102.22	105.40
1	AA	1297	G	N3-C4-C5	-7.95	124.62	128.60
1	AA	1458	G	C4-C5-N7	-7.95	107.62	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	32	U	P-O3'-C3'	7.95	129.24	119.70
26	BB	2	G	N3-C4-N9	7.95	130.77	126.00
26	BB	679	C	C5-C6-N1	7.95	124.98	121.00
26	BB	1867	G	C5-C6-O6	-7.95	123.83	128.60
26	BB	2817	U	C5-C4-O4	-7.95	121.13	125.90
1	AA	297	G	C5-N7-C8	-7.95	100.33	104.30
1	AA	1039	G	O4'-C1'-N9	7.95	114.56	108.20
26	BB	543	G	C2-N3-C4	7.95	115.88	111.90
25	BA	75	G	N7-C8-N9	7.95	117.08	113.10
26	BB	711	G	N9-C4-C5	7.95	108.58	105.40
26	BB	1270	C	C2-N3-C4	7.95	123.87	119.90
26	BB	1198	U	C5-C6-N1	7.95	126.67	122.70
26	BB	2195	U	C4-C5-C6	7.95	124.47	119.70
1	AA	1415	G	N7-C8-N9	7.95	117.07	113.10
26	BB	82	U	C5-C6-N1	-7.95	118.73	122.70
26	BB	629	G	C5'-C4'-O4'	7.95	118.63	109.10
26	BB	2532	G	C1'-O4'-C4'	7.95	116.26	109.90
26	BB	2584	U	C4'-C3'-C2'	-7.95	94.66	102.60
54	B3	49	ARG	NE-CZ-NH1	7.95	124.27	120.30
1	AA	1064	G	C3'-C2'-C1'	7.94	107.86	101.50
26	BB	121	G	C4-C5-N7	-7.94	107.62	110.80
26	BB	2834	G	N3-C2-N2	7.94	125.46	119.90
1	AA	74	A	N1-C6-N6	-7.94	113.83	118.60
1	AA	212	G	C5-C6-O6	-7.94	123.83	128.60
1	AA	215	C	C4-C5-C6	7.94	121.37	117.40
2	AB	36	A	C6-C5-N7	7.94	137.86	132.30
26	BB	103	A	O4'-C1'-N9	7.94	114.55	108.20
26	BB	149	A	N9-C4-C5	7.94	108.98	105.80
26	BB	1062	G	N3-C4-N9	-7.94	121.23	126.00
26	BB	1482	G	C6-C5-N7	-7.94	125.63	130.40
26	BB	1632	A	N7-C8-N9	7.94	117.77	113.80
1	AA	33	A	C8-N9-C4	7.94	108.98	105.80
1	AA	517	G	N1-C6-O6	7.94	124.66	119.90
1	AA	541	G	O4'-C1'-N9	7.94	114.55	108.20
1	AA	864	A	C2-N3-C4	7.94	114.57	110.60
1	AA	891	U	C4-C5-C6	7.94	124.46	119.70
26	BB	768	G	C8-N9-C4	-7.94	103.22	106.40
26	BB	1127	A	C5-C6-N1	7.94	121.67	117.70
26	BB	1299	G	N3-C4-C5	-7.94	124.63	128.60
26	BB	2128	G	N7-C8-N9	7.94	117.07	113.10
26	BB	2827	C	N3-C2-O2	-7.94	116.34	121.90
1	AA	1357	A	C1'-O4'-C4'	-7.94	103.55	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1193	G	N3-C4-N9	-7.94	121.24	126.00
1	AA	579	A	C4-C5-N7	-7.94	106.73	110.70
1	AA	995	C	C5-C6-N1	7.94	124.97	121.00
2	AB	53	G	N3-C2-N2	-7.94	114.34	119.90
3	AC	58	C	N3-C4-C5	-7.94	118.72	121.90
26	BB	2356	U	N3-C2-O2	-7.94	116.64	122.20
1	AA	1306	A	C1'-O4'-C4'	-7.94	103.55	109.90
26	BB	2154	A	C4'-C3'-C2'	-7.94	94.66	102.60
1	AA	693	G	N3-C4-N9	7.93	130.76	126.00
1	AA	980	C	C3'-C2'-C1'	7.93	107.85	101.50
1	AA	1382	C	P-O3'-C3'	7.93	129.22	119.70
25	BA	43	C	C6-N1-C2	-7.93	117.13	120.30
26	BB	697	G	C6-N1-C2	-7.93	120.34	125.10
26	BB	855	G	C8-N9-C4	-7.93	103.23	106.40
26	BB	1122	G	C6-N1-C2	-7.93	120.34	125.10
26	BB	2865	U	C1'-O4'-C4'	-7.93	103.55	109.90
16	AP	70	ARG	NE-CZ-NH1	7.93	124.27	120.30
26	BB	189	G	N9-C4-C5	7.93	108.57	105.40
26	BB	2244	U	C5-C4-O4	7.93	130.66	125.90
26	BB	2427	C	O4'-C1'-N1	7.93	114.55	108.20
1	AA	533	A	O4'-C1'-C2'	-7.93	97.87	105.80
1	AA	712	A	C5-C6-N6	-7.93	117.36	123.70
1	AA	897	C	C4-C5-C6	-7.93	113.44	117.40
1	AA	1431	A	C4-C5-C6	-7.93	113.03	117.00
1	AA	665	A	N1-C6-N6	-7.93	113.84	118.60
1	AA	808	C	N1-C2-O2	7.93	123.66	118.90
1	AA	1130	A	O4'-C1'-N9	7.93	114.54	108.20
26	BB	931	U	N3-C2-O2	-7.93	116.65	122.20
26	BB	1659	G	C8-N9-C4	-7.93	103.23	106.40
26	BB	2520	C	C2-N3-C4	7.93	123.86	119.90
1	AA	823	C	N3-C2-O2	-7.93	116.35	121.90
12	AL	5	TYR	CG-CD2-CE2	-7.93	114.96	121.30
26	BB	493	G	C6-C5-N7	-7.93	125.64	130.40
26	BB	2389	G	C5-C6-O6	-7.93	123.84	128.60
1	AA	172	A	C1'-O4'-C4'	7.93	116.24	109.90
1	AA	364	A	C3'-C2'-C1'	7.93	107.84	101.50
1	AA	407	U	C5-C6-N1	-7.93	118.74	122.70
1	AA	1366	C	C5-C6-N1	7.93	124.96	121.00
1	AA	1369	C	N3-C4-N4	7.93	123.55	118.00
1	AA	1538	C	C4'-C3'-C2'	-7.93	94.67	102.60
26	BB	261	G	N9-C1'-C2'	-7.93	103.28	112.00
26	BB	864	G	O4'-C1'-N9	7.93	114.54	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1241	A	C4'-C3'-C2'	-7.93	94.67	102.60
42	BR	54	LEU	CB-CG-CD1	7.93	124.47	111.00
1	AA	6	G	C4-C5-N7	7.92	113.97	110.80
4	AD	73	A	N1-C2-N3	-7.92	125.34	129.30
26	BB	553	G	C6-N1-C2	-7.92	120.35	125.10
26	BB	2578	G	N1-C6-O6	-7.92	115.14	119.90
26	BB	1524	G	C5'-C4'-O4'	7.92	118.61	109.10
26	BB	1862	G	C2-N3-C4	7.92	115.86	111.90
1	AA	479	U	P-O3'-C3'	7.92	129.21	119.70
1	AA	925	G	N9-C4-C5	7.92	108.57	105.40
26	BB	626	A	O4'-C1'-N9	7.92	114.54	108.20
26	BB	1692	U	O5'-P-OP2	-7.92	98.57	105.70
26	BB	1874	C	O4'-C1'-N1	7.92	114.54	108.20
26	BB	1877	A	C8-N9-C4	-7.92	102.63	105.80
26	BB	2160	C	C1'-O4'-C4'	7.92	116.24	109.90
26	BB	2376	A	C4-C5-N7	7.92	114.66	110.70
1	AA	809	G	C4'-C3'-C2'	-7.92	94.68	102.60
26	BB	1424	G	C5-C6-O6	-7.92	123.85	128.60
26	BB	2191	A	C2-N3-C4	-7.92	106.64	110.60
28	BD	102	TYR	CB-CG-CD1	7.92	125.75	121.00
44	BT	72	VAL	CG1-CB-CG2	7.92	123.57	110.90
1	AA	244	U	O4'-C1'-N1	7.92	114.53	108.20
26	BB	1065	U	N1-C2-O2	7.92	128.34	122.80
26	BB	1675	C	C6-N1-C2	-7.92	117.13	120.30
26	BB	2581	G	C6-N1-C2	-7.92	120.35	125.10
1	AA	610	U	O4'-C1'-N1	7.92	114.53	108.20
1	AA	1165	U	C4-C5-C6	7.92	124.45	119.70
26	BB	993	G	C4-C5-N7	7.92	113.97	110.80
26	BB	2275	C	C4-C5-C6	-7.92	113.44	117.40
26	BB	2370	G	N1-C2-N3	-7.92	119.15	123.90
26	BB	2564	A	C5-C6-N1	7.92	121.66	117.70
26	BB	2179	C	N3-C4-C5	-7.92	118.73	121.90
26	BB	2280	G	C6-N1-C2	-7.92	120.35	125.10
26	BB	2713	U	N1-C2-O2	7.92	128.34	122.80
25	BA	69	G	C5-N7-C8	7.91	108.26	104.30
26	BB	110	G	N1-C6-O6	-7.91	115.15	119.90
26	BB	1364	G	C6-N1-C2	-7.91	120.35	125.10
26	BB	2483	C	C6-N1-C2	-7.91	117.14	120.30
26	BB	718	A	C5-C6-N1	7.91	121.66	117.70
26	BB	1306	C	N3-C4-C5	-7.91	118.73	121.90
26	BB	2556	C	N3-C4-N4	7.91	123.54	118.00
1	AA	476	U	P-O5'-C5'	7.91	133.56	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1353	A	N9-C4-C5	7.91	108.96	105.80
26	BB	1379	U	N3-C4-O4	7.91	124.94	119.40
26	BB	2057	G	N9-C4-C5	7.91	108.56	105.40
1	AA	107	G	N3-C4-C5	-7.91	124.65	128.60
1	AA	866	C	C5-C4-N4	-7.91	114.66	120.20
26	BB	447	A	O4'-C1'-N9	7.91	114.53	108.20
26	BB	491	G	C8-N9-C4	-7.91	103.24	106.40
1	AA	1261	A	N1-C6-N6	-7.91	113.86	118.60
1	AA	1515	G	C5-C6-N1	7.91	115.45	111.50
2	AB	75	C	N3-C4-N4	7.91	123.53	118.00
26	BB	122	G	N9-C4-C5	-7.91	102.24	105.40
26	BB	976	G	C6-C5-N7	-7.91	125.66	130.40
1	AA	569	C	C3'-C2'-C1'	-7.91	95.18	101.50
1	AA	898	G	N3-C4-C5	-7.91	124.65	128.60
1	AA	1152	A	C4-C5-N7	-7.91	106.75	110.70
26	BB	333	G	N3-C2-N2	-7.91	114.37	119.90
26	BB	1174	U	C4-C5-C6	7.91	124.44	119.70
26	BB	1392	A	C5-C6-N6	7.91	130.02	123.70
26	BB	1620	G	N3-C4-C5	-7.91	124.65	128.60
26	BB	1793	C	O4'-C1'-N1	7.91	114.52	108.20
26	BB	1935	G	O4'-C1'-N9	7.91	114.53	108.20
26	BB	2250	G	C6-C5-N7	-7.91	125.66	130.40
38	BN	64	PHE	CB-CG-CD1	-7.91	115.27	120.80
1	AA	76	G	C4-C5-C6	-7.90	114.06	118.80
1	AA	399	G	N3-C4-C5	-7.90	124.65	128.60
1	AA	1253	G	C2'-C3'-O3'	7.90	126.88	109.50
1	AA	1303	C	C5-C6-N1	7.90	124.95	121.00
2	AB	44	G	N3-C4-C5	-7.90	124.65	128.60
12	AL	17	ARG	NE-CZ-NH2	-7.90	116.35	120.30
26	BB	181	A	O4'-C1'-N9	7.90	114.52	108.20
26	BB	545	U	C5-C4-O4	-7.90	121.16	125.90
26	BB	785	G	N3-C2-N2	7.90	125.43	119.90
1	AA	1014	A	C5-C6-N1	7.90	121.65	117.70
26	BB	619	G	C4-C5-N7	-7.90	107.64	110.80
26	BB	623	C	N1-C1'-C2'	-7.90	103.31	112.00
26	BB	689	A	C6-C5-N7	-7.90	126.77	132.30
26	BB	877	A	N7-C8-N9	7.90	117.75	113.80
26	BB	1728	C	N3-C4-C5	-7.90	118.74	121.90
26	BB	1958	C	C5-C6-N1	7.90	124.95	121.00
1	AA	1345	U	N3-C4-C5	7.90	119.34	114.60
26	BB	860	U	C6-N1-C2	7.90	125.74	121.00
26	BB	2367	G	C5-N7-C8	-7.90	100.35	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2867	G	C4-C5-N7	-7.90	107.64	110.80
17	AQ	44	VAL	CG1-CB-CG2	-7.90	98.26	110.90
26	BB	546	U	N1-C2-N3	7.90	119.64	114.90
26	BB	1332	G	C3'-C2'-C1'	7.90	107.82	101.50
26	BB	1510	G	C5-N7-C8	-7.90	100.35	104.30
26	BB	2839	G	C5-C6-O6	-7.90	123.86	128.60
27	BC	164	ARG	NE-CZ-NH2	-7.90	116.35	120.30
26	BB	1291	C	N3-C2-O2	-7.90	116.37	121.90
26	BB	1877	A	C2-N3-C4	-7.90	106.65	110.60
26	BB	2470	G	C6-C5-N7	7.90	135.14	130.40
53	B2	24	ILE	CA-CB-CG1	7.90	126.00	111.00
1	AA	417	G	N9-C4-C5	-7.89	102.24	105.40
1	AA	1416	G	C6-N1-C2	-7.89	120.36	125.10
26	BB	271	G	C5-C6-N1	7.89	115.45	111.50
26	BB	1321	A	C8-N9-C4	7.89	108.96	105.80
26	BB	2663	G	C8-N9-C4	-7.89	103.24	106.40
25	BA	21	G	C4-C5-N7	-7.89	107.64	110.80
26	BB	104	A	C5-C6-N1	7.89	121.65	117.70
26	BB	113	U	C6-N1-C2	-7.89	116.27	121.00
26	BB	289	G	N9-C1'-C2'	-7.89	103.32	112.00
26	BB	443	A	O4'-C1'-C2'	-7.89	97.91	105.80
26	BB	476	G	C3'-C2'-C1'	-7.89	95.19	101.50
26	BB	771	G	C5-C6-O6	-7.89	123.86	128.60
26	BB	809	G	C5-C6-O6	-7.89	123.86	128.60
26	BB	1093	G	N1-C6-O6	-7.89	115.16	119.90
26	BB	1221	C	N3-C4-C5	-7.89	118.74	121.90
26	BB	1838	C	C5-C6-N1	7.89	124.95	121.00
26	BB	1967	C	O4'-C1'-N1	7.89	114.52	108.20
26	BB	1983	G	N1-C2-N3	-7.89	119.16	123.90
26	BB	2740	A	C4-C5-N7	-7.89	106.75	110.70
1	AA	79	G	C8-N9-C4	-7.89	103.24	106.40
1	AA	976	G	C8-N9-C4	-7.89	103.24	106.40
2	AB	35	C	C1'-O4'-C4'	7.89	116.21	109.90
26	BB	2342	C	C2-N3-C4	7.89	123.85	119.90
26	BB	2547	A	C5-N7-C8	7.89	107.84	103.90
26	BB	2814	A	C2-N3-C4	7.89	114.55	110.60
1	AA	759	A	C5'-C4'-C3'	-7.89	103.38	116.00
1	AA	983	A	C8-N9-C4	-7.89	102.64	105.80
1	AA	1454	G	C4-C5-N7	7.89	113.95	110.80
26	BB	425	G	N9-C4-C5	7.89	108.56	105.40
26	BB	1105	U	C4-C5-C6	7.89	124.43	119.70
26	BB	2284	A	C5-C6-N1	-7.89	113.75	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	229	U	N3-C4-C5	-7.89	109.87	114.60
1	AA	293	G	C3'-C2'-C1'	7.89	107.81	101.50
1	AA	914	A	C8-N9-C4	-7.89	102.64	105.80
1	AA	1535	C	N3-C4-C5	7.89	125.06	121.90
26	BB	27	G	N3-C4-C5	-7.89	124.66	128.60
26	BB	659	G	O4'-C4'-C3'	7.89	112.41	106.10
26	BB	836	G	C4-C5-N7	-7.89	107.64	110.80
1	AA	13	U	O4'-C1'-C2'	-7.89	97.91	105.80
1	AA	1300	G	N1-C2-N2	7.89	123.30	116.20
1	AA	1335	U	N1-C2-O2	-7.89	117.28	122.80
26	BB	247	G	C6-C5-N7	7.89	135.13	130.40
26	BB	1200	C	C2-N3-C4	-7.89	115.96	119.90
26	BB	1922	G	N9-C1'-C2'	-7.89	103.32	112.00
26	BB	2057	G	C5-C6-N1	7.89	115.44	111.50
26	BB	2307	G	C6-C5-N7	7.89	135.13	130.40
26	BB	2805	C	C5'-C4'-O4'	7.89	118.56	109.10
1	AA	448	A	C2-N3-C4	-7.88	106.66	110.60
1	AA	705	G	C5-C6-N1	7.88	115.44	111.50
1	AA	945	G	C5'-C4'-O4'	7.88	118.56	109.10
1	AA	1155	A	O4'-C1'-N9	7.88	114.51	108.20
1	AA	1300	G	O4'-C1'-N9	-7.88	101.89	108.20
26	BB	2	G	C8-N9-C4	-7.88	103.25	106.40
26	BB	12	U	N3-C4-O4	7.88	124.92	119.40
26	BB	2058	A	P-O3'-C3'	7.88	129.16	119.70
26	BB	2837	A	C6-C5-N7	-7.88	126.78	132.30
34	BJ	30	ARG	NE-CZ-NH2	-7.88	116.36	120.30
26	BB	29	U	N1-C2-O2	-7.88	117.28	122.80
1	AA	1210	C	O4'-C1'-N1	7.88	114.51	108.20
1	AA	1302	C	N3-C2-O2	-7.88	116.38	121.90
1	AA	1436	U	O4'-C1'-N1	7.88	114.50	108.20
2	AB	30	G	N9-C1'-C2'	-7.88	103.33	112.00
26	BB	1781	U	C6-N1-C2	-7.88	116.27	121.00
1	AA	177	G	N1-C6-O6	-7.88	115.17	119.90
1	AA	508	U	C6-N1-C2	7.88	125.73	121.00
1	AA	1068	G	N3-C4-C5	-7.88	124.66	128.60
25	BA	13	G	C4-C5-N7	-7.88	107.65	110.80
26	BB	234	U	C2-N3-C4	-7.88	122.27	127.00
26	BB	408	G	O4'-C1'-N9	7.88	114.50	108.20
26	BB	1256	G	O4'-C1'-N9	7.88	114.50	108.20
26	BB	1583	A	N1-C6-N6	-7.88	113.87	118.60
26	BB	1646	C	N3-C4-C5	-7.88	118.75	121.90
26	BB	2132	U	C6-N1-C2	-7.88	116.27	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2293	G	N3-C4-N9	7.88	130.73	126.00
1	AA	923	A	C5-C6-N1	7.88	121.64	117.70
1	AA	1525	G	C4-C5-N7	-7.88	107.65	110.80
25	BA	107	G	C4-C5-N7	-7.88	107.65	110.80
26	BB	514	A	C2-N3-C4	7.88	114.54	110.60
1	AA	1378	C	C6-N1-C2	-7.88	117.15	120.30
2	AB	51	G	C5'-C4'-C3'	7.88	128.60	116.00
26	BB	894	U	C4-C5-C6	7.88	124.42	119.70
1	AA	627	G	C2-N3-C4	7.87	115.84	111.90
3	AC	29	G	N9-C4-C5	7.87	108.55	105.40
23	AW	59	ARG	NE-CZ-NH1	7.87	124.24	120.30
26	BB	544	C	O4'-C1'-N1	7.87	114.50	108.20
26	BB	1188	U	N1-C2-N3	7.87	119.62	114.90
26	BB	1705	A	C8-N9-C4	7.87	108.95	105.80
1	AA	1357	A	O4'-C1'-C2'	7.87	114.68	107.60
1	AA	1490	U	C4-C5-C6	7.87	124.42	119.70
26	BB	138	U	C5-C4-O4	-7.87	121.18	125.90
26	BB	1699	G	O4'-C1'-N9	7.87	114.50	108.20
26	BB	2207	C	C5'-C4'-O4'	7.87	118.55	109.10
1	AA	71	A	N1-C6-N6	7.87	123.32	118.60
1	AA	224	U	C1'-O4'-C4'	7.87	116.19	109.90
1	AA	244	U	C4-C5-C6	7.87	124.42	119.70
1	AA	847	G	N3-C4-N9	7.87	130.72	126.00
5	AE	89	PHE	CB-CG-CD1	-7.87	115.29	120.80
26	BB	431	U	C4'-C3'-C2'	-7.87	94.73	102.60
26	BB	1000	A	C5-C6-N6	7.87	129.99	123.70
26	BB	1663	G	C2-N3-C4	7.87	115.83	111.90
26	BB	2429	G	N3-C2-N2	-7.87	114.39	119.90
1	AA	634	C	C5-C6-N1	-7.87	117.07	121.00
1	AA	1079	G	O4'-C1'-N9	7.87	114.49	108.20
26	BB	77	G	O4'-C1'-N9	7.87	114.49	108.20
26	BB	303	G	N3-C2-N2	-7.87	114.39	119.90
26	BB	549	G	N1-C2-N3	-7.87	119.18	123.90
26	BB	556	A	O4'-C1'-N9	7.87	114.49	108.20
26	BB	249	C	N1-C2-O2	-7.87	114.18	118.90
26	BB	1176	U	N3-C2-O2	-7.87	116.69	122.20
26	BB	2699	C	C5-C4-N4	-7.87	114.69	120.20
26	BB	2800	A	N1-C6-N6	7.87	123.32	118.60
1	AA	360	G	C5'-C4'-O4'	7.86	118.54	109.10
1	AA	1257	A	N1-C2-N3	-7.86	125.37	129.30
25	BA	53	A	O4'-C1'-N9	7.86	114.49	108.20
26	BB	404	A	O4'-C1'-N9	7.86	114.49	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2355	G	O4'-C1'-N9	7.86	114.49	108.20
26	BB	2736	A	C5-C6-N6	-7.86	117.41	123.70
26	BB	2751	G	N7-C8-N9	7.86	117.03	113.10
32	BH	68	ARG	NE-CZ-NH1	7.86	124.23	120.30
26	BB	301	G	O4'-C1'-N9	7.86	114.49	108.20
26	BB	1094	U	N1-C2-N3	7.86	119.62	114.90
1	AA	249	U	O4'-C1'-N1	7.86	114.49	108.20
1	AA	273	U	N1-C2-N3	7.86	119.62	114.90
1	AA	692	U	N3-C2-O2	-7.86	116.70	122.20
1	AA	1303	C	N3-C4-N4	7.86	123.50	118.00
4	AD	17	C	C2-N3-C4	7.86	123.83	119.90
26	BB	2129	C	C3'-C2'-C1'	7.86	107.79	101.50
26	BB	2253	G	N3-C4-C5	-7.86	124.67	128.60
26	BB	2744	G	N1-C2-N3	7.86	128.62	123.90
1	AA	1418	A	N7-C8-N9	-7.86	109.87	113.80
26	BB	217	A	C2-N3-C4	7.86	114.53	110.60
26	BB	1156	A	C4-C5-C6	-7.86	113.07	117.00
26	BB	1338	G	C4-C5-N7	-7.86	107.66	110.80
26	BB	1678	A	N1-C6-N6	-7.86	113.89	118.60
26	BB	1836	C	C4-C5-C6	7.86	121.33	117.40
1	AA	7	A	C2-N3-C4	-7.86	106.67	110.60
1	AA	39	G	C2-N3-C4	7.86	115.83	111.90
1	AA	701	U	C5-C6-N1	-7.86	118.77	122.70
1	AA	856	C	O4'-C1'-N1	7.86	114.49	108.20
26	BB	186	G	C2-N3-C4	7.86	115.83	111.90
26	BB	706	A	C8-N9-C4	-7.86	102.66	105.80
26	BB	1034	G	N1-C6-O6	-7.86	115.19	119.90
26	BB	1478	G	N9-C4-C5	-7.86	102.26	105.40
26	BB	1761	C	N1-C2-O2	7.86	123.61	118.90
26	BB	1952	A	C4-C5-N7	7.86	114.63	110.70
26	BB	2097	A	C2-N3-C4	7.86	114.53	110.60
1	AA	907	A	N1-C2-N3	7.86	133.23	129.30
4	AD	57	C	O4'-C1'-N1	7.86	114.48	108.20
1	AA	238	A	O4'-C1'-N9	7.85	114.48	108.20
26	BB	1769	U	C5'-C4'-O4'	-7.85	99.68	109.10
26	BB	2301	C	C6-N1-C2	-7.85	117.16	120.30
1	AA	404	G	N3-C4-C5	-7.85	124.67	128.60
1	AA	676	A	C6-C5-N7	7.85	137.80	132.30
1	AA	1275	A	N1-C6-N6	-7.85	113.89	118.60
25	BA	92	C	C5'-C4'-O4'	7.85	118.52	109.10
25	BA	93	C	C4-C5-C6	-7.85	113.47	117.40
26	BB	30	G	C6-C5-N7	-7.85	125.69	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	162	U	C1'-O4'-C4'	-7.85	103.62	109.90
26	BB	342	A	N1-C6-N6	7.85	123.31	118.60
26	BB	1518	C	O4'-C1'-N1	7.85	114.48	108.20
26	BB	1748	C	C6-N1-C2	7.85	123.44	120.30
26	BB	2742	G	N3-C2-N2	-7.85	114.40	119.90
26	BB	2814	A	C6-N1-C2	7.85	123.31	118.60
26	BB	276	U	N1-C2-O2	-7.85	117.30	122.80
26	BB	1053	C	C6-N1-C2	-7.85	117.16	120.30
26	BB	1250	G	N3-C4-C5	-7.85	124.67	128.60
26	BB	1617	C	C2-N3-C4	7.85	123.83	119.90
26	BB	2406	A	N7-C8-N9	-7.85	109.87	113.80
1	AA	401	C	C6-N1-C2	-7.85	117.16	120.30
1	AA	399	G	C4-C5-C6	7.85	123.51	118.80
1	AA	1352	C	N1-C2-O2	7.85	123.61	118.90
1	AA	1461	G	C5'-C4'-O4'	7.85	118.52	109.10
2	AB	67	G	C4-C5-N7	7.85	113.94	110.80
25	BA	29	A	N1-C6-N6	-7.85	113.89	118.60
26	BB	469	G	N3-C4-N9	7.85	130.71	126.00
26	BB	671	C	C1'-O4'-C4'	-7.85	103.62	109.90
26	BB	682	G	C1'-O4'-C4'	-7.85	103.62	109.90
26	BB	2653	U	N3-C2-O2	-7.85	116.71	122.20
3	AC	52	U	C3'-C2'-C1'	-7.85	95.22	101.50
26	BB	916	G	C2-N3-C4	7.85	115.82	111.90
26	BB	1532	A	C4'-C3'-C2'	7.85	110.45	102.60
26	BB	1645	G	N3-C2-N2	7.85	125.39	119.90
1	AA	1002	G	C4-C5-N7	-7.84	107.66	110.80
26	BB	108	G	C5-C6-O6	-7.84	123.89	128.60
26	BB	538	A	N1-C2-N3	-7.84	125.38	129.30
26	BB	985	C	O4'-C1'-N1	7.84	114.48	108.20
26	BB	1750	G	C6-C5-N7	7.84	135.11	130.40
26	BB	1837	C	N3-C2-O2	-7.84	116.41	121.90
26	BB	2125	G	O4'-C1'-N9	7.84	114.47	108.20
26	BB	2464	G	C5-N7-C8	-7.84	100.38	104.30
1	AA	203	G	C3'-C2'-C1'	-7.84	95.23	101.50
1	AA	745	G	N3-C4-C5	-7.84	124.68	128.60
26	BB	167	A	C8-N9-C4	-7.84	102.66	105.80
26	BB	753	A	O4'-C1'-N9	-7.84	101.93	108.20
26	BB	867	C	C6-N1-C2	7.84	123.44	120.30
26	BB	2325	G	C5'-C4'-O4'	7.84	118.51	109.10
26	BB	2794	C	N1-C1'-C2'	-7.84	103.38	112.00
25	BA	26	C	N1-C2-N3	-7.84	113.71	119.20
26	BB	635	C	O4'-C1'-N1	7.84	114.47	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1663	G	N1-C2-N3	-7.84	119.20	123.90
26	BB	2027	G	C1'-O4'-C4'	-7.84	103.63	109.90
26	BB	2031	A	C5-C6-N6	-7.84	117.43	123.70
26	BB	2534	A	C2-N3-C4	7.84	114.52	110.60
26	BB	2763	G	C5-C6-O6	7.84	133.30	128.60
26	BB	2823	A	N7-C8-N9	7.84	117.72	113.80
1	AA	1133	G	C5-N7-C8	-7.84	100.38	104.30
26	BB	2812	G	C5-C6-N1	7.84	115.42	111.50
1	AA	555	U	C5-C4-O4	-7.84	121.20	125.90
1	AA	940	C	N3-C4-N4	7.84	123.49	118.00
1	AA	1270	G	C8-N9-C4	-7.84	103.27	106.40
4	AD	45	A	N9-C4-C5	-7.84	102.67	105.80
26	BB	340	A	N9-C4-C5	7.84	108.93	105.80
26	BB	1167	C	N1-C2-N3	7.84	124.69	119.20
26	BB	1254	A	C8-N9-C4	7.84	108.94	105.80
26	BB	2578	G	C5-C6-O6	7.84	133.30	128.60
26	BB	2599	G	N3-C4-N9	-7.84	121.30	126.00
1	AA	198	G	C3'-C2'-C1'	-7.83	95.23	101.50
1	AA	490	C	N1-C2-O2	7.83	123.60	118.90
1	AA	1327	C	P-O3'-C3'	7.83	129.10	119.70
1	AA	1388	C	C3'-C2'-C1'	7.83	107.77	101.50
1	AA	1489	G	C2-N3-C4	7.83	115.82	111.90
26	BB	277	G	N7-C8-N9	7.83	117.02	113.10
26	BB	2432	A	N3-C4-C5	-7.83	121.32	126.80
1	AA	1403	C	C2-N3-C4	7.83	123.81	119.90
11	AK	87	ARG	NE-CZ-NH1	7.83	124.22	120.30
26	BB	269	C	N3-C2-O2	-7.83	116.42	121.90
26	BB	1210	G	N7-C8-N9	7.83	117.02	113.10
26	BB	2366	A	N7-C8-N9	7.83	117.72	113.80
26	BB	35	G	N1-C2-N2	7.83	123.25	116.20
26	BB	123	G	N3-C4-C5	-7.83	124.69	128.60
26	BB	327	G	N3-C4-C5	-7.83	124.69	128.60
33	BI	46	PHE	CB-CG-CD1	7.83	126.28	120.80
1	AA	647	C	C3'-C2'-C1'	7.83	107.76	101.50
1	AA	714	G	N9-C4-C5	7.83	108.53	105.40
1	AA	1038	C	N1-C2-O2	7.83	123.60	118.90
1	AA	1104	G	C1'-O4'-C4'	7.83	116.16	109.90
1	AA	1352	C	N3-C2-O2	-7.83	116.42	121.90
26	BB	53	A	O4'-C1'-N9	7.83	114.46	108.20
26	BB	672	C	P-O5'-C5'	7.83	133.42	120.90
26	BB	994	C	O4'-C1'-N1	7.83	114.46	108.20
26	BB	2211	A	O4'-C1'-N9	-7.83	101.94	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2337	G	C2-N3-C4	7.83	115.81	111.90
1	AA	173	U	C5-C4-O4	-7.83	121.20	125.90
1	AA	243	A	P-O3'-C3'	7.83	129.09	119.70
1	AA	1117	A	C6-N1-C2	7.83	123.30	118.60
3	AC	18	A	C5-N7-C8	-7.83	99.99	103.90
26	BB	368	A	C4-C5-N7	-7.83	106.79	110.70
26	BB	1544	A	N1-C2-N3	-7.83	125.39	129.30
26	BB	2749	A	C4'-C3'-C2'	-7.83	94.77	102.60
1	AA	7	A	N7-C8-N9	7.83	117.71	113.80
1	AA	934	C	C5-C4-N4	-7.83	114.72	120.20
26	BB	114	U	P-O3'-C3'	7.83	129.09	119.70
26	BB	1517	G	C2-N3-C4	7.83	115.81	111.90
26	BB	1878	G	C5-C6-N1	7.83	115.41	111.50
26	BB	2470	G	N3-C4-N9	-7.83	121.31	126.00
26	BB	2810	A	N1-C6-N6	7.83	123.30	118.60
1	AA	695	A	N3-C4-C5	-7.82	121.32	126.80
1	AA	1206	G	C5-C6-N1	7.82	115.41	111.50
2	AB	7	G	O4'-C1'-N9	7.82	114.46	108.20
4	AD	70	C	C1'-O4'-C4'	-7.82	103.64	109.90
26	BB	667	U	O4'-C1'-N1	7.82	114.46	108.20
26	BB	2391	G	N3-C2-N2	-7.82	114.42	119.90
1	AA	519	C	N1-C2-O2	-7.82	114.21	118.90
1	AA	801	U	O4'-C1'-N1	7.82	114.46	108.20
4	AD	19	G	O4'-C1'-N9	-7.82	101.94	108.20
26	BB	1329	U	C5-C6-N1	-7.82	118.79	122.70
1	AA	179	A	C4-C5-C6	-7.82	113.09	117.00
1	AA	765	G	C6-N1-C2	-7.82	120.41	125.10
26	BB	632	A	N1-C6-N6	7.82	123.29	118.60
26	BB	882	G	N1-C6-O6	7.82	124.59	119.90
26	BB	1114	C	C5'-C4'-O4'	7.82	118.48	109.10
26	BB	1332	G	C6-N1-C2	-7.82	120.41	125.10
26	BB	1847	A	C5'-C4'-O4'	7.82	118.48	109.10
26	BB	2406	A	O4'-C1'-N9	-7.82	101.94	108.20
1	AA	199	A	C5-C6-N1	7.82	121.61	117.70
26	BB	1818	U	C5'-C4'-O4'	7.82	118.48	109.10
41	BQ	81	ARG	NE-CZ-NH1	7.82	124.21	120.30
1	AA	395	C	C5'-C4'-O4'	7.82	118.48	109.10
1	AA	730	G	N3-C4-C5	-7.82	124.69	128.60
1	AA	1238	A	C5'-C4'-O4'	7.82	118.48	109.10
25	BA	56	G	O4'-C1'-N9	7.82	114.45	108.20
26	BB	2655	G	N3-C4-C5	-7.82	124.69	128.60
1	AA	546	A	N9-C4-C5	7.82	108.93	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	978	A	C5-N7-C8	-7.82	99.99	103.90
1	AA	1158	C	C4-C5-C6	7.82	121.31	117.40
25	BA	43	C	N1-C2-O2	7.82	123.59	118.90
26	BB	2041	U	N1-C1'-C2'	-7.82	103.40	112.00
1	AA	214	C	O4'-C1'-N1	7.81	114.45	108.20
1	AA	667	G	O4'-C1'-N9	7.81	114.45	108.20
26	BB	261	G	C4'-C3'-C2'	-7.81	94.79	102.60
26	BB	2186	G	C5'-C4'-C3'	-7.81	103.50	116.00
26	BB	2510	C	N3-C2-O2	-7.81	116.43	121.90
1	AA	350	G	N3-C4-C5	-7.81	124.69	128.60
1	AA	1326	U	C5-C6-N1	-7.81	118.79	122.70
25	BA	88	C	C5-C6-N1	7.81	124.91	121.00
26	BB	795	C	O4'-C1'-C2'	7.81	114.63	107.60
26	BB	1423	G	O4'-C4'-C3'	7.81	112.35	106.10
26	BB	2644	G	N9-C1'-C2'	-7.81	103.41	112.00
1	AA	95	C	N3-C4-N4	7.81	123.47	118.00
1	AA	719	C	C2-N3-C4	7.81	123.81	119.90
1	AA	760	G	N9-C1'-C2'	-7.81	103.41	112.00
1	AA	1458	G	N9-C4-C5	7.81	108.52	105.40
26	BB	618	G	C5-C6-O6	-7.81	123.91	128.60
1	AA	608	A	C2-N3-C4	7.81	114.50	110.60
1	AA	978	A	C8-N9-C4	-7.81	102.68	105.80
1	AA	1042	A	C5'-C4'-O4'	7.81	118.47	109.10
1	AA	1164	G	N3-C2-N2	7.81	125.37	119.90
25	BA	67	G	C2-N3-C4	7.81	115.81	111.90
25	BA	83	G	C5'-C4'-C3'	-7.81	103.50	116.00
26	BB	665	U	O4'-C1'-N1	7.81	114.45	108.20
26	BB	1089	A	P-O3'-C3'	7.81	129.07	119.70
26	BB	1765	U	N1-C2-O2	-7.81	117.33	122.80
26	BB	2664	G	O4'-C4'-C3'	7.81	112.35	106.10
1	AA	722	G	C4-C5-C6	7.81	123.48	118.80
1	AA	733	G	O4'-C1'-N9	7.81	114.44	108.20
1	AA	1421	G	C5-N7-C8	-7.81	100.40	104.30
1	AA	1459	G	N3-C4-C5	-7.81	124.70	128.60
4	AD	24	C	C4-C5-C6	-7.81	113.50	117.40
26	BB	123	G	N7-C8-N9	7.81	117.00	113.10
26	BB	777	G	C4-C5-N7	-7.81	107.68	110.80
26	BB	1607	C	C6-N1-C2	7.81	123.42	120.30
1	AA	750	C	C5'-C4'-O4'	7.81	118.47	109.10
26	BB	1404	C	O4'-C1'-N1	7.81	114.44	108.20
26	BB	1788	C	C5'-C4'-C3'	-7.81	103.51	116.00
26	BB	2450	A	C8-N9-C4	-7.81	102.68	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	257	G	N1-C6-O6	-7.80	115.22	119.90
1	AA	1276	G	N1-C2-N3	-7.80	119.22	123.90
26	BB	140	C	C1'-O4'-C4'	-7.80	103.66	109.90
26	BB	888	C	N3-C4-C5	7.80	125.02	121.90
26	BB	1257	C	N3-C2-O2	-7.80	116.44	121.90
26	BB	2184	A	C5-N7-C8	-7.80	100.00	103.90
30	BF	102	ARG	NE-CZ-NH1	-7.80	116.40	120.30
1	AA	1031	C	C1'-O4'-C4'	7.80	116.14	109.90
26	BB	2722	G	C5-C6-N1	7.80	115.40	111.50
1	AA	370	C	N1-C2-O2	7.80	123.58	118.90
1	AA	453	G	C4'-C3'-C2'	-7.80	94.80	102.60
1	AA	857	C	C3'-C2'-C1'	7.80	107.74	101.50
25	BA	44	G	O3'-P-O5'	-7.80	89.18	104.00
26	BB	899	A	O4'-C1'-N9	7.80	114.44	108.20
26	BB	1039	A	C4-C5-N7	-7.80	106.80	110.70
1	AA	142	G	N9-C4-C5	-7.80	102.28	105.40
1	AA	447	G	N3-C4-N9	7.80	130.68	126.00
1	AA	1063	C	N3-C2-O2	-7.80	116.44	121.90
26	BB	737	C	C6-N1-C2	-7.80	117.18	120.30
26	BB	914	G	C6-N1-C2	-7.80	120.42	125.10
26	BB	1116	G	C8-N9-C4	-7.80	103.28	106.40
26	BB	1340	U	N1-C2-O2	-7.80	117.34	122.80
26	BB	1431	A	N9-C4-C5	7.80	108.92	105.80
26	BB	2572	A	N1-C2-N3	-7.80	125.40	129.30
26	BB	2804	U	O4'-C1'-N1	7.80	114.44	108.20
26	BB	2813	A	N7-C8-N9	7.80	117.70	113.80
1	AA	329	A	O4'-C1'-N9	7.80	114.44	108.20
1	AA	1023	U	C5-C6-N1	7.80	126.60	122.70
1	AA	1276	G	C5-C6-O6	-7.80	123.92	128.60
26	BB	403	U	C2-N3-C4	-7.80	122.32	127.00
26	BB	1505	A	C4-C5-N7	7.80	114.60	110.70
26	BB	2530	A	C3'-C2'-C1'	-7.80	95.26	101.50
1	AA	72	A	C8-N9-C4	7.80	108.92	105.80
1	AA	676	A	C3'-C2'-C1'	7.80	107.74	101.50
2	AB	51	G	N3-C4-C5	-7.80	124.70	128.60
26	BB	859	G	C5-N7-C8	-7.80	100.40	104.30
26	BB	1235	G	C2-N3-C4	7.80	115.80	111.90
26	BB	1451	C	C6-N1-C2	7.80	123.42	120.30
26	BB	2131	U	C4-C5-C6	7.80	124.38	119.70
26	BB	2215	C	C2-N3-C4	7.80	123.80	119.90
1	AA	373	A	C8-N9-C4	-7.79	102.68	105.80
1	AA	1222	G	N1-C6-O6	-7.79	115.22	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	34	A	N9-C4-C5	7.79	108.92	105.80
26	BB	1079	C	O4'-C1'-N1	7.79	114.44	108.20
26	BB	1158	C	O4'-C1'-N1	7.79	114.44	108.20
26	BB	1650	A	C2-N3-C4	7.79	114.50	110.60
26	BB	2579	C	C5-C4-N4	-7.79	114.74	120.20
1	AA	755	G	N3-C2-N2	-7.79	114.44	119.90
1	AA	1191	A	C5-N7-C8	-7.79	100.00	103.90
1	AA	1465	A	N3-C4-C5	-7.79	121.34	126.80
26	BB	243	U	N1-C1'-C2'	-7.79	103.43	112.00
26	BB	997	G	C8-N9-C1'	7.79	137.13	127.00
26	BB	1338	G	P-O3'-C3'	7.79	129.05	119.70
26	BB	1539	U	C4-C5-C6	7.79	124.38	119.70
26	BB	1691	C	C4-C5-C6	7.79	121.30	117.40
26	BB	1809	A	C6-C5-N7	7.79	137.76	132.30
1	AA	64	G	C8-N9-C4	-7.79	103.28	106.40
1	AA	426	U	C4'-C3'-C2'	-7.79	94.81	102.60
26	BB	315	G	O4'-C1'-N9	7.79	114.43	108.20
26	BB	843	G	C5-N7-C8	7.79	108.20	104.30
26	BB	1031	G	C6-N1-C2	-7.79	120.42	125.10
26	BB	1679	A	C5-C6-N6	-7.79	117.47	123.70
26	BB	2721	A	N1-C2-N3	-7.79	125.40	129.30
26	BB	2799	A	C2-N3-C4	7.79	114.50	110.60
1	AA	279	A	P-O3'-C3'	7.79	129.05	119.70
1	AA	1237	C	C4'-C3'-C2'	-7.79	94.81	102.60
1	AA	1363	A	N1-C2-N3	7.79	133.19	129.30
26	BB	131	A	C8-N9-C4	-7.79	102.68	105.80
26	BB	486	C	N3-C4-C5	-7.79	118.78	121.90
26	BB	1161	C	N3-C4-N4	7.79	123.45	118.00
26	BB	2719	G	N9-C4-C5	7.79	108.52	105.40
1	AA	1213	A	N1-C6-N6	-7.79	113.93	118.60
1	AA	1520	C	C5'-C4'-O4'	7.79	118.45	109.10
26	BB	158	U	N3-C4-O4	7.79	124.85	119.40
26	BB	1181	U	N1-C1'-C2'	-7.79	103.43	112.00
26	BB	1594	U	C4-C5-C6	7.79	124.37	119.70
26	BB	2211	A	O3'-P-O5'	-7.79	89.20	104.00
27	BC	162	ARG	NE-CZ-NH2	7.79	124.19	120.30
33	BI	27	ARG	NE-CZ-NH1	-7.79	116.41	120.30
1	AA	540	G	N7-C8-N9	7.79	116.99	113.10
26	BB	295	G	C2-N3-C4	7.79	115.79	111.90
26	BB	626	A	N7-C8-N9	7.79	117.69	113.80
26	BB	650	C	C4'-C3'-C2'	-7.79	94.81	102.60
26	BB	1072	C	C5'-C4'-O4'	7.79	118.44	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1695	G	C6-C5-N7	7.79	135.07	130.40
1	AA	124	C	C5'-C4'-O4'	7.79	118.44	109.10
1	AA	145	G	N3-C2-N2	-7.79	114.45	119.90
1	AA	701	U	O4'-C1'-N1	7.79	114.43	108.20
1	AA	906	A	C8-N9-C4	-7.79	102.69	105.80
26	BB	575	A	O4'-C1'-N9	7.79	114.43	108.20
26	BB	675	A	N9-C4-C5	7.79	108.91	105.80
26	BB	1254	A	C5-C6-N1	7.79	121.59	117.70
26	BB	1445	G	C5-C6-N1	-7.79	107.61	111.50
26	BB	1654	A	C6-C5-N7	7.79	137.75	132.30
26	BB	1899	A	C1'-O4'-C4'	-7.79	103.67	109.90
26	BB	1907	G	C4-C5-C6	7.79	123.47	118.80
26	BB	2277	G	N9-C4-C5	7.79	108.51	105.40
26	BB	2430	A	C6-N1-C2	-7.79	113.93	118.60
26	BB	2795	C	N1-C2-O2	7.79	123.57	118.90
30	BF	35	TYR	CD1-CG-CD2	7.79	126.47	117.90
1	AA	226	G	C3'-C2'-C1'	-7.78	95.27	101.50
26	BB	499	U	C5-C4-O4	7.78	130.57	125.90
26	BB	2087	G	C6-C5-N7	-7.78	125.73	130.40
26	BB	2137	U	N3-C2-O2	-7.78	116.75	122.20
1	AA	1067	A	N9-C4-C5	-7.78	102.69	105.80
26	BB	651	G	N7-C8-N9	-7.78	109.21	113.10
26	BB	1851	U	C6-N1-C2	-7.78	116.33	121.00
1	AA	360	G	N7-C8-N9	7.78	116.99	113.10
1	AA	1449	C	N1-C1'-C2'	-7.78	103.44	112.00
1	AA	1479	C	C4-C5-C6	-7.78	113.51	117.40
26	BB	637	A	P-O3'-C3'	7.78	129.04	119.70
26	BB	2103	C	N3-C4-C5	-7.78	118.79	121.90
1	AA	305	G	C5-C6-N1	7.78	115.39	111.50
26	BB	2	G	C4-C5-C6	7.78	123.47	118.80
26	BB	680	C	N1-C2-O2	7.78	123.57	118.90
26	BB	1223	G	C4-C5-N7	-7.78	107.69	110.80
26	BB	1718	G	N3-C4-N9	7.78	130.67	126.00
26	BB	2131	U	C5-C6-N1	-7.78	118.81	122.70
26	BB	2892	G	C4-C5-N7	7.78	113.91	110.80
1	AA	43	C	N1-C2-O2	7.78	123.57	118.90
1	AA	190	A	C5-C6-N1	-7.78	113.81	117.70
1	AA	647	C	C6-N1-C2	-7.78	117.19	120.30
1	AA	1140	C	O4'-C1'-N1	7.78	114.42	108.20
1	AA	1364	U	C1'-O4'-C4'	7.78	116.12	109.90
26	BB	437	U	C5-C6-N1	-7.78	118.81	122.70
26	BB	1076	C	N3-C4-C5	-7.78	118.79	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2589	A	C5-N7-C8	-7.78	100.01	103.90
1	AA	226	G	N3-C4-N9	-7.78	121.33	126.00
1	AA	1309	G	C4-C5-N7	-7.78	107.69	110.80
4	AD	15	G	C4-C5-N7	7.78	113.91	110.80
26	BB	1538	G	N3-C4-N9	7.78	130.67	126.00
26	BB	1566	A	C3'-C2'-C1'	7.78	107.72	101.50
26	BB	2464	G	C5-C6-O6	-7.78	123.94	128.60
1	AA	755	G	C6-C5-N7	-7.77	125.74	130.40
26	BB	1446	C	N3-C4-N4	7.77	123.44	118.00
26	BB	2152	G	N3-C4-N9	7.77	130.66	126.00
1	AA	488	C	C5-C6-N1	7.77	124.89	121.00
1	AA	566	G	O4'-C1'-N9	7.77	114.42	108.20
1	AA	1298	U	N1-C2-N3	7.77	119.56	114.90
1	AA	1317	C	C4'-C3'-C2'	-7.77	94.83	102.60
1	AA	1457	G	N3-C4-N9	-7.77	121.34	126.00
1	AA	1480	A	C2-N3-C4	-7.77	106.71	110.60
26	BB	401	A	P-O3'-C3'	7.77	129.03	119.70
26	BB	553	G	N9-C1'-C2'	-7.77	103.45	112.00
26	BB	713	G	C5-C6-N1	7.77	115.39	111.50
26	BB	1523	U	C1'-O4'-C4'	7.77	116.12	109.90
26	BB	1803	A	N1-C6-N6	7.77	123.26	118.60
26	BB	1843	C	P-O3'-C3'	7.77	129.03	119.70
1	AA	738	C	C4-C5-C6	-7.77	113.52	117.40
26	BB	882	G	C5-C6-O6	-7.77	123.94	128.60
26	BB	903	C	N3-C2-O2	-7.77	116.46	121.90
1	AA	724	G	C6-C5-N7	-7.77	125.74	130.40
1	AA	1269	A	N7-C8-N9	-7.77	109.92	113.80
26	BB	60	G	C5-N7-C8	-7.77	100.42	104.30
26	BB	97	C	N3-C2-O2	-7.77	116.46	121.90
26	BB	401	A	O4'-C4'-C3'	-7.77	96.23	104.00
26	BB	850	U	N1-C2-O2	7.77	128.24	122.80
26	BB	2319	G	N3-C2-N2	7.77	125.34	119.90
1	AA	199	A	C2-N3-C4	7.77	114.48	110.60
25	BA	90	C	C5-C4-N4	7.77	125.64	120.20
26	BB	949	G	N3-C2-N2	-7.77	114.46	119.90
26	BB	1141	U	C4-C5-C6	7.77	124.36	119.70
26	BB	1397	U	C4-C5-C6	7.77	124.36	119.70
26	BB	1500	G	C4-C5-N7	7.77	113.91	110.80
26	BB	1800	C	N3-C4-N4	7.77	123.44	118.00
32	BH	78	VAL	CA-CB-CG1	7.77	122.55	110.90
26	BB	261	G	C6-N1-C2	-7.77	120.44	125.10
26	BB	1458	U	C2-N1-C1'	7.77	127.02	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1712	U	N3-C2-O2	-7.77	116.76	122.20
1	AA	206	C	C5-C6-N1	7.76	124.88	121.00
1	AA	545	C	C4'-C3'-C2'	-7.76	94.83	102.60
1	AA	647	C	O4'-C1'-N1	7.76	114.41	108.20
26	BB	480	A	O4'-C1'-N9	7.76	114.41	108.20
26	BB	629	G	C8-N9-C1'	7.76	137.09	127.00
26	BB	1797	G	C4-C5-N7	-7.76	107.69	110.80
26	BB	2767	C	C1'-O4'-C4'	7.76	116.11	109.90
1	AA	1470	U	N1-C2-N3	7.76	119.56	114.90
1	AA	1477	U	N1-C2-N3	7.76	119.56	114.90
26	BB	1038	G	C1'-O4'-C4'	7.76	116.11	109.90
26	BB	1699	G	N3-C2-N2	7.76	125.33	119.90
26	BB	2606	C	N1-C2-O2	7.76	123.56	118.90
1	AA	608	A	C5-C6-N1	7.76	121.58	117.70
1	AA	843	U	C5-C6-N1	-7.76	118.82	122.70
1	AA	886	G	N3-C4-N9	7.76	130.66	126.00
4	AD	76	C	O4'-C4'-C3'	7.76	112.31	106.10
26	BB	63	A	C8-N9-C4	-7.76	102.70	105.80
26	BB	756	A	N9-C4-C5	7.76	108.90	105.80
26	BB	1566	A	N1-C2-N3	-7.76	125.42	129.30
26	BB	2459	A	C1'-O4'-C4'	7.76	116.11	109.90
1	AA	200	G	C8-N9-C4	-7.76	103.30	106.40
1	AA	270	A	C4-C5-C6	7.76	120.88	117.00
1	AA	791	G	N3-C4-C5	-7.76	124.72	128.60
1	AA	1031	C	C4-C5-C6	7.76	121.28	117.40
26	BB	295	G	N9-C1'-C2'	-7.76	103.47	112.00
26	BB	799	G	C2-N3-C4	7.76	115.78	111.90
26	BB	938	G	C5-C6-O6	-7.76	123.94	128.60
26	BB	1031	G	N3-C2-N2	-7.76	114.47	119.90
26	BB	1703	G	C1'-O4'-C4'	7.76	116.11	109.90
26	BB	1707	G	C5-C6-O6	-7.76	123.94	128.60
26	BB	1938	A	C8-N9-C4	-7.76	102.70	105.80
26	BB	2003	A	C2-N3-C4	7.76	114.48	110.60
26	BB	1907	G	O4'-C1'-N9	7.76	114.41	108.20
26	BB	2429	G	N9-C4-C5	7.76	108.50	105.40
26	BB	2750	A	N7-C8-N9	7.76	117.68	113.80
1	AA	419	C	C3'-C2'-C1'	7.76	107.70	101.50
1	AA	706	A	C5-N7-C8	7.76	107.78	103.90
1	AA	1018	G	C6-N1-C2	-7.76	120.45	125.10
1	AA	1176	A	N7-C8-N9	7.76	117.68	113.80
24	AX	20	ARG	NE-CZ-NH1	7.76	124.18	120.30
26	BB	698	C	C2-N3-C4	-7.76	116.02	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	727	A	N3-C4-N9	-7.76	121.19	127.40
26	BB	1446	C	O4'-C1'-N1	7.76	114.41	108.20
26	BB	1677	A	N3-C4-C5	-7.76	121.37	126.80
26	BB	1761	C	O4'-C1'-N1	7.76	114.41	108.20
26	BB	2437	G	N9-C4-C5	7.76	108.50	105.40
1	AA	1328	C	C4-C5-C6	-7.75	113.52	117.40
1	AA	518	C	O4'-C1'-N1	7.75	114.40	108.20
26	BB	203	A	C5-N7-C8	7.75	107.78	103.90
26	BB	387	U	C2-N3-C4	-7.75	122.35	127.00
26	BB	979	A	P-O3'-C3'	7.75	129.00	119.70
26	BB	1084	A	O4'-C1'-N9	7.75	114.40	108.20
26	BB	1289	C	O4'-C1'-N1	7.75	114.40	108.20
26	BB	2026	U	O5'-C5'-C4'	7.75	126.43	111.70
4	AD	10	G	C4-C5-N7	7.75	113.90	110.80
25	BA	89	U	C2-N3-C4	-7.75	122.35	127.00
26	BB	381	G	C5-C6-N1	7.75	115.38	111.50
26	BB	1718	G	N3-C4-C5	-7.75	124.72	128.60
26	BB	1733	G	C6-N1-C2	-7.75	120.45	125.10
26	BB	313	G	C6-N1-C2	-7.75	120.45	125.10
26	BB	993	G	C6-N1-C2	-7.75	120.45	125.10
26	BB	1131	G	C4-C5-N7	-7.75	107.70	110.80
26	BB	1572	A	C1'-O4'-C4'	7.75	116.10	109.90
26	BB	1772	A	C8-N9-C4	-7.75	102.70	105.80
2	AB	10	G	C4-C5-N7	-7.75	107.70	110.80
26	BB	1091	G	C4-C5-C6	-7.75	114.15	118.80
26	BB	2350	C	N3-C4-N4	7.75	123.42	118.00
26	BB	2678	C	N3-C4-C5	-7.75	118.80	121.90
1	AA	110	C	C5-C4-N4	-7.75	114.78	120.20
1	AA	1386	G	C6-N1-C2	-7.75	120.45	125.10
26	BB	1102	C	P-O3'-C3'	7.75	128.99	119.70
1	AA	179	A	C5-C6-N1	7.74	121.57	117.70
1	AA	276	G	C4-C5-N7	-7.74	107.70	110.80
1	AA	855	U	C4'-C3'-C2'	-7.74	94.86	102.60
26	BB	938	G	N9-C4-C5	7.74	108.50	105.40
26	BB	951	C	C2-N3-C4	7.74	123.77	119.90
26	BB	1575	C	N1-C2-N3	7.74	124.62	119.20
26	BB	2478	A	N9-C4-C5	-7.74	102.70	105.80
26	BB	2678	C	O4'-C1'-N1	7.74	114.39	108.20
26	BB	1346	G	N3-C2-N2	-7.74	114.48	119.90
26	BB	1932	A	N9-C4-C5	-7.74	102.70	105.80
1	AA	274	A	C4-C5-C6	-7.74	113.13	117.00
1	AA	667	G	C5-C6-O6	-7.74	123.95	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	856	C	C1'-O4'-C4'	-7.74	103.71	109.90
1	AA	1245	C	N1-C2-N3	-7.74	113.78	119.20
1	AA	1302	C	N1-C2-O2	7.74	123.55	118.90
22	AV	80	ARG	NE-CZ-NH1	7.74	124.17	120.30
26	BB	633	A	N1-C2-N3	7.74	133.17	129.30
26	BB	2281	A	C4-C5-N7	-7.74	106.83	110.70
1	AA	1002	G	C5-C6-N1	7.74	115.37	111.50
1	AA	1240	U	N1-C2-O2	7.74	128.22	122.80
1	AA	1287	A	C6-C5-N7	7.74	137.72	132.30
26	BB	967	U	N3-C4-C5	-7.74	109.96	114.60
26	BB	1071	G	C5-C6-O6	-7.74	123.96	128.60
26	BB	1752	C	N3-C4-C5	-7.74	118.80	121.90
26	BB	2160	C	O4'-C1'-N1	7.74	114.39	108.20
26	BB	2528	U	C2-N3-C4	7.74	131.64	127.00
1	AA	878	A	C2-N3-C4	-7.74	106.73	110.60
26	BB	1582	C	C5-C6-N1	7.74	124.87	121.00
1	AA	847	G	C2-N3-C4	7.74	115.77	111.90
26	BB	1330	C	C4-C5-C6	-7.74	113.53	117.40
26	BB	1496	A	C4-C5-N7	-7.74	106.83	110.70
26	BB	1553	A	C5-C6-N6	-7.74	117.51	123.70
26	BB	1629	U	N3-C4-C5	-7.74	109.96	114.60
26	BB	1685	C	N3-C4-C5	-7.74	118.81	121.90
26	BB	2028	U	N3-C2-O2	-7.74	116.78	122.20
1	AA	1410	A	C4-C5-N7	-7.73	106.83	110.70
26	BB	132	G	N9-C4-C5	7.73	108.49	105.40
26	BB	1305	C	C2-N3-C4	-7.73	116.03	119.90
26	BB	1401	G	C5'-C4'-O4'	7.73	118.38	109.10
1	AA	1235	U	N1-C1'-C2'	-7.73	103.50	112.00
26	BB	1121	C	P-O3'-C3'	7.73	128.98	119.70
26	BB	1332	G	N3-C2-N2	-7.73	114.49	119.90
26	BB	2226	C	N3-C4-N4	-7.73	112.59	118.00
26	BB	2586	U	O4'-C1'-N1	7.73	114.39	108.20
26	BB	2612	C	C2-N3-C4	7.73	123.77	119.90
1	AA	356	A	N1-C2-N3	7.73	133.16	129.30
1	AA	405	U	N3-C2-O2	-7.73	116.79	122.20
25	BA	9	G	C5'-C4'-O4'	7.73	118.38	109.10
26	BB	75	G	N1-C2-N3	-7.73	119.26	123.90
26	BB	146	A	N3-C4-N9	-7.73	121.22	127.40
26	BB	738	G	O4'-C1'-N9	7.73	114.38	108.20
1	AA	479	U	N3-C2-O2	7.73	127.61	122.20
1	AA	1370	G	C5-C6-N1	7.73	115.36	111.50
26	BB	76	C	C5'-C4'-O4'	7.73	118.38	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	589	U	N3-C4-C5	-7.73	109.96	114.60
1	AA	63	C	C2-N3-C4	-7.73	116.04	119.90
1	AA	187	G	N3-C4-N9	7.73	130.64	126.00
1	AA	193	C	C4'-C3'-C2'	-7.73	94.87	102.60
4	AD	44	A	C5-N7-C8	7.73	107.76	103.90
26	BB	869	G	C8-N9-C4	-7.73	103.31	106.40
26	BB	1580	A	C8-N9-C4	-7.73	102.71	105.80
26	BB	2029	G	N3-C2-N2	7.73	125.31	119.90
1	AA	1215	G	N1-C6-O6	-7.73	115.27	119.90
26	BB	66	C	C2-N3-C4	7.73	123.76	119.90
26	BB	244	A	N9-C1'-C2'	-7.73	103.50	112.00
26	BB	1436	G	N1-C2-N3	-7.73	119.27	123.90
26	BB	1742	U	C4'-C3'-C2'	-7.73	94.87	102.60
1	AA	205	A	C1'-O4'-C4'	7.72	116.08	109.90
1	AA	465	A	C5-N7-C8	7.72	107.76	103.90
1	AA	1256	A	O4'-C1'-N9	7.72	114.38	108.20
4	AD	54	G	C5-C6-O6	-7.72	123.97	128.60
25	BA	8	C	O4'-C1'-N1	7.72	114.38	108.20
26	BB	1969	A	C4-C5-N7	-7.72	106.84	110.70
26	BB	2084	C	N3-C4-C5	-7.72	118.81	121.90
26	BB	2590	A	N3-C4-C5	-7.72	121.39	126.80
26	BB	2698	U	N1-C2-N3	7.72	119.53	114.90
1	AA	649	A	C5-N7-C8	-7.72	100.04	103.90
1	AA	1150	A	C5-C6-N1	7.72	121.56	117.70
26	BB	35	G	N3-C4-C5	-7.72	124.74	128.60
26	BB	287	G	C5-C6-O6	-7.72	123.97	128.60
26	BB	726	G	O4'-C1'-N9	7.72	114.38	108.20
26	BB	1533	C	N3-C4-C5	-7.72	118.81	121.90
26	BB	2121	G	C6-C5-N7	-7.72	125.77	130.40
26	BB	2201	G	C8-N9-C4	-7.72	103.31	106.40
1	AA	113	G	N3-C4-C5	-7.72	124.74	128.60
3	AC	18	A	N7-C8-N9	7.72	117.66	113.80
4	AD	64	G	C5'-C4'-O4'	7.72	118.36	109.10
26	BB	230	G	C5-C6-N1	7.72	115.36	111.50
26	BB	1418	G	C5-N7-C8	-7.72	100.44	104.30
26	BB	2652	C	C5-C6-N1	7.72	124.86	121.00
1	AA	313	A	O4'-C1'-N9	7.72	114.38	108.20
1	AA	472	U	C5-C4-O4	-7.72	121.27	125.90
1	AA	1377	A	O4'-C1'-N9	7.72	114.38	108.20
2	AB	10	G	C5-N7-C8	7.72	108.16	104.30
25	BA	101	A	N9-C4-C5	7.72	108.89	105.80
26	BB	28	A	C5-N7-C8	-7.72	100.04	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	886	A	N9-C4-C5	7.72	108.89	105.80
26	BB	1735	A	C4'-C3'-C2'	-7.72	94.88	102.60
26	BB	2209	G	N3-C4-C5	-7.72	124.74	128.60
26	BB	2389	G	N1-C2-N3	-7.72	119.27	123.90
56	B5	3	ARG	NE-CZ-NH2	7.72	124.16	120.30
26	BB	751	A	C5-N7-C8	-7.72	100.04	103.90
26	BB	841	G	C6-N1-C2	-7.72	120.47	125.10
26	BB	1921	G	C5-C6-O6	-7.72	123.97	128.60
1	AA	1400	C	C5-C6-N1	7.72	124.86	121.00
2	AB	61	C	P-O3'-C3'	7.72	128.96	119.70
16	AP	2	ARG	NE-CZ-NH2	-7.72	116.44	120.30
26	BB	132	G	C4-C5-N7	-7.72	107.71	110.80
26	BB	385	C	N1-C2-O2	7.72	123.53	118.90
26	BB	585	G	O4'-C1'-N9	7.72	114.37	108.20
26	BB	1421	G	C5-N7-C8	-7.72	100.44	104.30
1	AA	265	G	C5-N7-C8	7.71	108.16	104.30
1	AA	595	A	C5-N7-C8	-7.71	100.04	103.90
1	AA	1109	C	N1-C2-O2	7.71	123.53	118.90
25	BA	116	G	C5-C6-O6	-7.71	123.97	128.60
26	BB	277	G	C6-N1-C2	-7.71	120.47	125.10
26	BB	346	A	C3'-C2'-C1'	7.71	107.67	101.50
26	BB	815	C	N3-C4-C5	7.71	124.99	121.90
26	BB	845	A	N7-C8-N9	7.71	117.66	113.80
26	BB	1021	A	C4-C5-N7	-7.71	106.84	110.70
26	BB	1151	A	O4'-C1'-N9	7.71	114.37	108.20
26	BB	1176	U	N1-C2-O2	7.71	128.20	122.80
26	BB	2411	A	C4-C5-N7	-7.71	106.84	110.70
1	AA	371	A	C5-C6-N1	7.71	121.56	117.70
1	AA	684	U	N1-C2-N3	7.71	119.53	114.90
1	AA	705	G	C2-N3-C4	7.71	115.76	111.90
1	AA	1004	A	C6-N1-C2	-7.71	113.97	118.60
1	AA	1355	G	C5'-C4'-O4'	7.71	118.36	109.10
25	BA	24	G	C3'-C2'-C1'	7.71	107.67	101.50
26	BB	1416	G	C5-C6-N1	7.71	115.36	111.50
26	BB	1704	C	N3-C2-O2	-7.71	116.50	121.90
26	BB	2362	C	C5'-C4'-C3'	-7.71	103.66	116.00
26	BB	2548	U	C1'-O4'-C4'	-7.71	103.73	109.90
1	AA	884	U	O4'-C4'-C3'	7.71	112.27	106.10
1	AA	1299	A	C3'-C2'-C1'	-7.71	95.33	101.50
4	AD	7	G	C5-C6-N1	7.71	115.36	111.50
4	AD	58	A	P-O3'-C3'	7.71	128.95	119.70
26	BB	252	G	C4-C5-N7	7.71	113.88	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2523	G	O4'-C1'-N9	7.71	114.37	108.20
1	AA	108	G	N1-C2-N2	-7.71	109.26	116.20
26	BB	1766	G	N3-C4-C5	-7.71	124.75	128.60
1	AA	225	C	C5-C6-N1	7.71	124.86	121.00
1	AA	749	A	O4'-C1'-N9	7.71	114.37	108.20
26	BB	372	G	C8-N9-C4	-7.71	103.32	106.40
26	BB	511	U	N1-C2-O2	7.71	128.20	122.80
26	BB	547	A	N7-C8-N9	7.71	117.65	113.80
26	BB	1187	G	N9-C4-C5	7.71	108.48	105.40
26	BB	1399	C	N1-C2-O2	7.71	123.53	118.90
26	BB	1642	G	C5'-C4'-O4'	7.71	118.35	109.10
26	BB	2686	G	O4'-C1'-N9	7.71	114.37	108.20
26	BB	2785	C	O4'-C1'-N1	7.71	114.37	108.20
1	AA	35	G	N1-C2-N3	-7.71	119.28	123.90
1	AA	466	A	C4'-C3'-C2'	-7.71	94.89	102.60
1	AA	922	G	C2-N3-C4	7.71	115.75	111.90
1	AA	1086	U	N3-C2-O2	-7.71	116.81	122.20
1	AA	1115	U	C4-C5-C6	7.71	124.32	119.70
26	BB	286	U	O4'-C4'-C3'	-7.71	96.29	104.00
26	BB	916	G	C8-N9-C4	-7.71	103.32	106.40
26	BB	1012	U	C5-C6-N1	-7.71	118.85	122.70
1	AA	1174	G	O4'-C1'-N9	7.71	114.36	108.20
26	BB	1620	G	C5-C6-N1	7.71	115.35	111.50
1	AA	66	A	C4-C5-N7	7.70	114.55	110.70
1	AA	1479	C	C6-N1-C2	-7.70	117.22	120.30
4	AD	65	G	C4'-C3'-C2'	-7.70	94.90	102.60
26	BB	663	G	C4-C5-N7	7.70	113.88	110.80
26	BB	1063	G	C3'-C2'-C1'	-7.70	95.34	101.50
26	BB	1063	G	N9-C4-C5	7.70	108.48	105.40
26	BB	2077	A	O5'-P-OP2	-7.70	98.77	105.70
26	BB	2372	U	C5-C6-N1	-7.70	118.85	122.70
26	BB	2666	C	O4'-C1'-C2'	7.70	114.53	107.60
25	BA	35	C	N1-C2-O2	7.70	123.52	118.90
26	BB	782	A	N9-C4-C5	7.70	108.88	105.80
1	AA	172	A	O4'-C1'-N9	7.70	114.36	108.20
1	AA	538	G	C6-N1-C2	-7.70	120.48	125.10
16	AP	100	ARG	NE-CZ-NH1	7.70	124.15	120.30
20	AT	11	VAL	CA-CB-CG2	-7.70	99.35	110.90
25	BA	57	A	N9-C4-C5	-7.70	102.72	105.80
26	BB	196	A	O4'-C1'-C2'	-7.70	98.10	105.80
26	BB	407	G	N3-C4-N9	-7.70	121.38	126.00
26	BB	413	C	N3-C4-C5	7.70	124.98	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	555	G	C4-C5-C6	7.70	123.42	118.80
26	BB	1506	U	N1-C2-N3	7.70	119.52	114.90
26	BB	2590	A	C8-N9-C4	-7.70	102.72	105.80
26	BB	2812	G	N3-C4-N9	7.70	130.62	126.00
26	BB	2864	G	C5-C6-N1	7.70	115.35	111.50
1	AA	135	C	C5-C6-N1	7.70	124.85	121.00
1	AA	227	G	N3-C4-C5	-7.70	124.75	128.60
1	AA	870	U	C1'-O4'-C4'	-7.70	103.74	109.90
26	BB	377	G	C3'-C2'-C1'	7.70	107.66	101.50
26	BB	473	G	N3-C4-N9	7.70	130.62	126.00
26	BB	530	G	C4-C5-C6	7.70	123.42	118.80
26	BB	571	U	O4'-C1'-N1	7.70	114.36	108.20
26	BB	668	A	C2-N3-C4	-7.70	106.75	110.60
26	BB	713	G	N3-C4-C5	-7.70	124.75	128.60
1	AA	651	C	N1-C2-O2	7.70	123.52	118.90
26	BB	325	G	C4-C5-N7	-7.70	107.72	110.80
26	BB	1892	C	N3-C4-N4	7.70	123.39	118.00
26	BB	2210	U	O4'-C1'-N1	7.70	114.36	108.20
26	BB	2713	U	N3-C2-O2	-7.70	116.81	122.20
1	AA	706	A	N1-C2-N3	-7.70	125.45	129.30
26	BB	480	A	C4-C5-N7	-7.70	106.85	110.70
26	BB	1450	G	N3-C4-C5	-7.70	124.75	128.60
26	BB	1532	A	O4'-C4'-C3'	-7.70	96.30	104.00
26	BB	1629	U	O4'-C1'-N1	7.70	114.36	108.20
28	BD	101	ARG	NE-CZ-NH1	7.70	124.15	120.30
26	BB	29	U	O4'-C4'-C3'	7.69	112.25	106.10
26	BB	431	U	N3-C2-O2	-7.69	116.81	122.20
26	BB	2269	G	C5-C6-O6	-7.69	123.98	128.60
1	AA	295	C	C5-C6-N1	7.69	124.85	121.00
1	AA	690	G	C8-N9-C4	-7.69	103.32	106.40
1	AA	1027	C	C6-N1-C2	7.69	123.38	120.30
1	AA	1399	C	C5'-C4'-C3'	-7.69	103.69	116.00
26	BB	35	G	C2-N3-C4	7.69	115.75	111.90
26	BB	229	C	O4'-C1'-N1	7.69	114.35	108.20
26	BB	1440	U	O4'-C1'-N1	7.69	114.35	108.20
26	BB	1456	G	N7-C8-N9	-7.69	109.25	113.10
26	BB	2201	G	N1-C2-N3	-7.69	119.28	123.90
1	AA	1163	A	C2-N3-C4	7.69	114.44	110.60
26	BB	335	C	C5'-C4'-C3'	-7.69	103.70	116.00
26	BB	669	G	N1-C2-N3	-7.69	119.29	123.90
26	BB	922	C	C4'-C3'-C2'	-7.69	94.91	102.60
26	BB	1855	U	C3'-C2'-C1'	7.69	107.65	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2048	G	N1-C2-N3	-7.69	119.29	123.90
26	BB	2803	G	C5-N7-C8	7.69	108.15	104.30
1	AA	632	U	C6-N1-C2	7.69	125.61	121.00
1	AA	869	G	N1-C6-O6	-7.69	115.29	119.90
26	BB	290	U	N3-C4-O4	7.69	124.78	119.40
26	BB	663	G	C6-C5-N7	-7.69	125.79	130.40
26	BB	952	G	O4'-C1'-N9	7.69	114.35	108.20
1	AA	1113	C	C1'-O4'-C4'	7.69	116.05	109.90
1	AA	1388	C	N1-C2-N3	7.69	124.58	119.20
6	AF	126	ARG	NE-CZ-NH1	7.69	124.14	120.30
26	BB	632	A	N1-C2-N3	-7.69	125.46	129.30
26	BB	1349	C	C4'-C3'-C2'	-7.69	94.91	102.60
26	BB	2846	G	C4-C5-C6	7.69	123.41	118.80
1	AA	141	G	N1-C2-N2	7.69	123.12	116.20
1	AA	329	A	N7-C8-N9	-7.69	109.96	113.80
26	BB	460	A	C8-N9-C4	-7.69	102.73	105.80
26	BB	1256	G	N3-C4-N9	7.69	130.61	126.00
2	AB	11	U	C2-N3-C4	-7.68	122.39	127.00
4	AD	2	G	C4-C5-C6	7.68	123.41	118.80
26	BB	77	G	C4-C5-N7	7.68	113.87	110.80
26	BB	252	G	N1-C2-N3	-7.68	119.29	123.90
26	BB	1850	G	C6-C5-N7	-7.68	125.79	130.40
26	BB	2703	C	C5-C6-N1	7.68	124.84	121.00
1	AA	256	U	N3-C4-C5	-7.68	109.99	114.60
1	AA	1182	G	C6-N1-C2	7.68	129.71	125.10
4	AD	9	G	O4'-C1'-N9	7.68	114.35	108.20
25	BA	36	C	C5-C6-N1	7.68	124.84	121.00
26	BB	1041	G	C4-C5-N7	-7.68	107.73	110.80
26	BB	2268	A	P-O3'-C3'	7.68	128.92	119.70
26	BB	2832	U	C2-N3-C4	-7.68	122.39	127.00
26	BB	55	G	N1-C6-O6	-7.68	115.29	119.90
26	BB	2063	C	C4-C5-C6	-7.68	113.56	117.40
26	BB	2388	A	C5-N7-C8	-7.68	100.06	103.90
1	AA	282	A	C8-N9-C4	-7.68	102.73	105.80
1	AA	804	U	N3-C4-O4	7.68	124.78	119.40
1	AA	948	C	O4'-C1'-N1	7.68	114.34	108.20
1	AA	959	A	O4'-C1'-N9	7.68	114.34	108.20
26	BB	611	C	C2'-C3'-O3'	7.68	126.40	109.50
26	BB	1505	A	C8-N9-C4	-7.68	102.73	105.80
26	BB	2163	A	P-O3'-C3'	7.68	128.92	119.70
26	BB	2372	U	C5-C4-O4	-7.68	121.29	125.90
26	BB	1473	G	N3-C4-C5	-7.68	124.76	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2570	G	C8-N9-C4	-7.68	103.33	106.40
1	AA	1215	G	N3-C4-C5	-7.68	124.76	128.60
1	AA	1389	C	C5-C6-N1	7.68	124.84	121.00
2	AB	2	G	C5-C6-O6	-7.68	123.99	128.60
3	AC	22	G	C3'-C2'-C1'	7.68	107.64	101.50
26	BB	276	U	N3-C2-O2	7.68	127.57	122.20
26	BB	559	G	C6-N1-C2	-7.68	120.49	125.10
26	BB	613	A	N7-C8-N9	7.68	117.64	113.80
26	BB	1468	U	N1-C2-O2	7.68	128.17	122.80
26	BB	317	G	N3-C4-C5	7.67	132.44	128.60
26	BB	375	G	C5-C6-N1	7.67	115.34	111.50
26	BB	1333	G	C4-C5-C6	7.67	123.41	118.80
26	BB	1368	G	C5-C6-O6	7.67	133.20	128.60
26	BB	1631	G	C8-N9-C4	-7.67	103.33	106.40
26	BB	2583	G	C4-C5-N7	7.67	113.87	110.80
25	BA	56	G	C1'-O4'-C4'	7.67	116.04	109.90
26	BB	1885	A	C5-C6-N1	7.67	121.54	117.70
1	AA	1229	A	N9-C1'-C2'	-7.67	103.56	112.00
1	AA	1511	G	C5'-C4'-O4'	7.67	118.31	109.10
2	AB	4	G	C5-C6-O6	-7.67	124.00	128.60
26	BB	240	C	C4-C5-C6	-7.67	113.56	117.40
26	BB	789	A	C5-C6-N1	7.67	121.54	117.70
26	BB	1000	A	N1-C2-N3	-7.67	125.46	129.30
26	BB	1016	G	O4'-C1'-N9	7.67	114.34	108.20
26	BB	1251	C	P-O3'-C3'	7.67	128.91	119.70
26	BB	1565	C	C3'-C2'-C1'	-7.67	95.36	101.50
26	BB	1602	U	O4'-C1'-N1	7.67	114.34	108.20
26	BB	1613	G	C8-N9-C4	-7.67	103.33	106.40
26	BB	2472	G	O4'-C1'-N9	-7.67	102.06	108.20
39	BO	10	ARG	NE-CZ-NH2	7.67	124.14	120.30
1	AA	1221	G	C2-N3-C4	7.67	115.73	111.90
4	AD	20	G	O4'-C1'-N9	7.67	114.34	108.20
26	BB	2607	G	N3-C2-N2	7.67	125.27	119.90
26	BB	2620	C	C2-N3-C4	7.67	123.73	119.90
1	AA	416	G	C2-N3-C4	7.67	115.73	111.90
1	AA	1016	A	N9-C1'-C2'	-7.67	103.56	112.00
1	AA	1515	G	N3-C4-C5	-7.67	124.77	128.60
26	BB	102	U	N1-C2-O2	-7.67	117.43	122.80
26	BB	593	U	N1-C2-O2	7.67	128.17	122.80
26	BB	731	C	C3'-C2'-C1'	7.67	107.64	101.50
26	BB	1009	A	O4'-C4'-C3'	7.67	112.23	106.10
26	BB	1111	A	P-O3'-C3'	7.67	128.90	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1546	G	N9-C1'-C2'	-7.67	103.56	112.00
29	BE	80	TRP	NE1-CE2-CZ2	7.67	138.84	130.40
1	AA	56	U	C2-N3-C4	-7.67	122.40	127.00
1	AA	153	C	O4'-C1'-N1	7.67	114.33	108.20
1	AA	795	C	N3-C4-C5	-7.67	118.83	121.90
1	AA	909	A	C5-C6-N1	7.67	121.53	117.70
1	AA	910	C	C2-N3-C4	-7.67	116.07	119.90
1	AA	997	U	C5-C4-O4	-7.67	121.30	125.90
1	AA	1080	A	O4'-C4'-C3'	7.67	112.23	106.10
4	AD	45	A	C6-N1-C2	7.67	123.20	118.60
26	BB	1209	U	N1-C2-O2	-7.67	117.43	122.80
26	BB	1807	G	C5-N7-C8	7.67	108.13	104.30
26	BB	2061	G	O4'-C1'-N9	7.67	114.33	108.20
26	BB	2193	G	N3-C4-C5	-7.67	124.77	128.60
26	BB	2664	G	C4-C5-N7	-7.67	107.73	110.80
26	BB	280	U	N3-C2-O2	-7.67	116.83	122.20
26	BB	347	A	C8-N9-C4	-7.67	102.73	105.80
26	BB	2891	U	O4'-C1'-N1	7.67	114.33	108.20
26	BB	821	A	C6-N1-C2	7.66	123.20	118.60
26	BB	1094	U	O4'-C1'-N1	7.66	114.33	108.20
26	BB	2074	U	N3-C4-O4	7.66	124.76	119.40
26	BB	2857	G	O4'-C1'-N9	7.66	114.33	108.20
1	AA	1078	U	C4'-C3'-C2'	-7.66	94.94	102.60
26	BB	989	G	O4'-C1'-C2'	-7.66	98.14	105.80
26	BB	1283	G	C4-C5-C6	7.66	123.40	118.80
1	AA	884	U	N3-C2-O2	-7.66	116.84	122.20
26	BB	750	A	C2-N3-C4	-7.66	106.77	110.60
26	BB	1491	G	O4'-C1'-N9	7.66	114.33	108.20
26	BB	1587	G	O4'-C1'-N9	7.66	114.33	108.20
26	BB	1691	C	C2-N3-C4	-7.66	116.07	119.90
1	AA	550	G	N7-C8-N9	7.66	116.93	113.10
1	AA	1266	G	N9-C1'-C2'	-7.66	103.58	112.00
26	BB	223	A	C6-N1-C2	-7.66	114.00	118.60
26	BB	622	G	C2-N3-C4	7.66	115.73	111.90
26	BB	961	C	N1-C1'-C2'	7.66	123.96	114.00
26	BB	1031	G	C5-C6-O6	-7.66	124.00	128.60
26	BB	1925	C	O4'-C1'-N1	7.66	114.33	108.20
26	BB	2525	G	C4'-C3'-C2'	-7.66	94.94	102.60
1	AA	998	C	N1-C2-O2	7.66	123.49	118.90
26	BB	470	A	C5-C6-N1	7.66	121.53	117.70
26	BB	686	U	N3-C4-O4	7.66	124.76	119.40
26	BB	1742	U	O4'-C1'-N1	7.66	114.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2630	G	C6-C5-N7	-7.66	125.81	130.40
1	AA	715	A	C6-N1-C2	-7.66	114.01	118.60
1	AA	1068	G	C4-C5-C6	7.66	123.39	118.80
26	BB	420	C	O4'-C1'-N1	7.66	114.32	108.20
26	BB	450	G	N9-C1'-C2'	-7.66	103.58	112.00
26	BB	456	C	O4'-C1'-N1	7.66	114.33	108.20
26	BB	726	G	N3-C4-C5	-7.66	124.77	128.60
26	BB	845	A	C4-C5-N7	7.66	114.53	110.70
26	BB	1459	G	N7-C8-N9	7.66	116.93	113.10
26	BB	2024	G	N7-C8-N9	7.66	116.93	113.10
26	BB	2640	G	C6-N1-C2	-7.66	120.51	125.10
25	BA	67	G	C4'-C3'-C2'	-7.65	94.95	102.60
26	BB	2225	A	N1-C6-N6	-7.65	114.01	118.60
1	AA	646	G	O4'-C4'-C3'	-7.65	96.35	104.00
1	AA	1448	C	O4'-C4'-C3'	7.65	112.22	106.10
25	BA	111	U	N1-C2-N3	7.65	119.49	114.90
26	BB	98	G	C2-N3-C4	7.65	115.72	111.90
26	BB	156	A	C1'-O4'-C4'	-7.65	103.78	109.90
26	BB	1972	G	N1-C2-N3	-7.65	119.31	123.90
26	BB	2178	C	C4-C5-C6	7.65	121.22	117.40
26	BB	2579	C	N3-C4-N4	7.65	123.36	118.00
26	BB	2826	A	C3'-C2'-C1'	7.65	107.62	101.50
1	AA	346	G	O4'-C1'-N9	7.65	114.32	108.20
26	BB	161	A	C5'-C4'-O4'	7.65	118.28	109.10
26	BB	764	A	N1-C6-N6	7.65	123.19	118.60
26	BB	768	G	C5-N7-C8	-7.65	100.48	104.30
26	BB	1261	C	C6-N1-C2	-7.65	117.24	120.30
26	BB	1603	A	C4-C5-C6	-7.65	113.18	117.00
26	BB	1902	C	N1-C2-O2	7.65	123.49	118.90
26	BB	2262	U	C5-C4-O4	-7.65	121.31	125.90
4	AD	59	A	C5-C6-N1	-7.65	113.88	117.70
26	BB	340	A	C4-C5-N7	-7.65	106.88	110.70
26	BB	849	A	O4'-C4'-C3'	7.65	112.22	106.10
26	BB	2538	C	C2-N3-C4	7.65	123.72	119.90
45	BU	19	LEU	CB-CG-CD2	7.65	124.00	111.00
1	AA	117	G	C5-N7-C8	-7.64	100.48	104.30
26	BB	999	U	C4-C5-C6	7.64	124.29	119.70
26	BB	2452	C	C2-N3-C4	7.64	123.72	119.90
1	AA	328	C	C4-C5-C6	7.64	121.22	117.40
1	AA	872	A	C4'-C3'-C2'	-7.64	94.96	102.60
1	AA	1179	A	C2-N3-C4	7.64	114.42	110.60
26	BB	214	G	N3-C2-N2	-7.64	114.55	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	878	A	N1-C2-N3	-7.64	125.48	129.30
26	BB	1400	U	N1-C2-N3	7.64	119.49	114.90
26	BB	2643	G	C8-N9-C4	-7.64	103.34	106.40
1	AA	466	A	C1'-O4'-C4'	-7.64	103.79	109.90
1	AA	99	C	C3'-C2'-C1'	7.64	107.61	101.50
1	AA	940	C	N1-C2-N3	-7.64	113.85	119.20
1	AA	971	G	C2-N3-C4	7.64	115.72	111.90
1	AA	1309	G	N3-C4-C5	-7.64	124.78	128.60
26	BB	418	C	N3-C2-O2	-7.64	116.55	121.90
26	BB	1142	A	C8-N9-C4	-7.64	102.74	105.80
26	BB	1407	G	N3-C4-N9	-7.64	121.42	126.00
26	BB	1659	G	N7-C8-N9	7.64	116.92	113.10
26	BB	2485	G	N3-C4-C5	-7.64	124.78	128.60
26	BB	224	U	C5'-C4'-O4'	7.64	118.27	109.10
26	BB	499	U	N3-C2-O2	-7.64	116.85	122.20
26	BB	640	C	C2-N3-C4	-7.64	116.08	119.90
26	BB	761	A	N1-C6-N6	-7.64	114.02	118.60
26	BB	1816	C	C5'-C4'-O4'	7.64	118.27	109.10
26	BB	2818	U	C5-C6-N1	-7.64	118.88	122.70
41	BQ	16	ARG	NE-CZ-NH1	7.64	124.12	120.30
1	AA	577	G	N3-C4-C5	-7.64	124.78	128.60
2	AB	53	G	N3-C4-C5	-7.64	124.78	128.60
26	BB	1287	A	C5-C6-N6	7.64	129.81	123.70
26	BB	1425	G	C4-C5-C6	7.64	123.38	118.80
26	BB	1517	G	O4'-C1'-N9	7.64	114.31	108.20
26	BB	1594	U	N3-C4-C5	-7.64	110.02	114.60
40	BP	12	ARG	NE-CZ-NH1	7.64	124.12	120.30
3	AC	20	G	N1-C6-O6	-7.63	115.32	119.90
26	BB	544	C	C5-C6-N1	7.63	124.82	121.00
26	BB	712	G	N1-C2-N2	7.63	123.07	116.20
26	BB	994	C	C5-C4-N4	-7.63	114.86	120.20
26	BB	2685	G	C5-C6-N1	7.63	115.32	111.50
1	AA	1473	G	C8-N9-C4	-7.63	103.35	106.40
26	BB	253	C	C6-N1-C2	-7.63	117.25	120.30
26	BB	560	C	N1-C2-O2	7.63	123.48	118.90
26	BB	2459	A	C5-C6-N6	-7.63	117.59	123.70
1	AA	341	C	C4-C5-C6	-7.63	113.58	117.40
1	AA	522	C	O4'-C1'-N1	7.63	114.31	108.20
1	AA	845	A	O4'-C1'-N9	7.63	114.31	108.20
1	AA	1022	A	O4'-C1'-N9	7.63	114.31	108.20
1	AA	1060	U	N3-C2-O2	-7.63	116.86	122.20
2	AB	52	A	N1-C6-N6	7.63	123.18	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1304	A	C6-C5-N7	7.63	137.64	132.30
26	BB	1410	G	N3-C4-C5	-7.63	124.78	128.60
26	BB	1913	A	C6-C5-N7	7.63	137.64	132.30
26	BB	2428	G	C6-N1-C2	7.63	129.68	125.10
32	BH	82	PHE	CG-CD1-CE1	-7.63	112.41	120.80
1	AA	278	G	C4-C5-N7	-7.63	107.75	110.80
1	AA	888	G	C6-C5-N7	-7.63	125.82	130.40
1	AA	1217	C	O4'-C1'-N1	-7.63	102.10	108.20
1	AA	1257	A	C6-C5-N7	-7.63	126.96	132.30
1	AA	1528	U	N3-C2-O2	-7.63	116.86	122.20
26	BB	1576	U	N1-C2-N3	7.63	119.48	114.90
26	BB	1946	U	N1-C2-O2	7.63	128.14	122.80
28	BD	155	ARG	NE-CZ-NH1	7.63	124.11	120.30
1	AA	346	G	C6-N1-C2	-7.63	120.52	125.10
26	BB	1435	G	C5-C6-N1	-7.63	107.69	111.50
1	AA	856	C	C6-N1-C2	-7.63	117.25	120.30
1	AA	1052	U	C4-C5-C6	7.63	124.28	119.70
25	BA	3	C	C5-C4-N4	-7.63	114.86	120.20
25	BA	63	C	C4-C5-C6	7.63	121.21	117.40
26	BB	44	A	C6-N1-C2	-7.63	114.02	118.60
26	BB	650	C	C5-C6-N1	-7.63	117.19	121.00
26	BB	1077	A	C6-C5-N7	7.63	137.64	132.30
26	BB	1389	G	C8-N9-C4	-7.63	103.35	106.40
26	BB	2218	G	C8-N9-C1'	7.63	136.92	127.00
26	BB	2266	A	C8-N9-C4	-7.63	102.75	105.80
26	BB	2286	G	N3-C4-C5	-7.63	124.79	128.60
1	AA	740	U	C3'-C2'-C1'	7.62	107.60	101.50
26	BB	993	G	C5-C6-N1	7.62	115.31	111.50
26	BB	1394	U	C5-C4-O4	-7.62	121.33	125.90
26	BB	2088	A	C5-C6-N6	7.62	129.80	123.70
1	AA	182	A	N1-C2-N3	-7.62	125.49	129.30
1	AA	519	C	N1-C2-N3	7.62	124.54	119.20
1	AA	1427	C	O4'-C4'-C3'	-7.62	96.38	104.00
26	BB	116	C	N1-C1'-C2'	-7.62	103.61	112.00
26	BB	156	A	N9-C4-C5	7.62	108.85	105.80
26	BB	158	U	C5-C4-O4	-7.62	121.33	125.90
26	BB	1136	G	C5-C6-N1	7.62	115.31	111.50
26	BB	1539	U	N1-C2-N3	7.62	119.47	114.90
26	BB	2464	G	N1-C6-O6	7.62	124.47	119.90
26	BB	2831	G	N3-C4-N9	7.62	130.57	126.00
1	AA	32	A	C5-N7-C8	7.62	107.71	103.90
1	AA	787	A	C5-C6-N6	7.62	129.80	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	15	G	C5'-C4'-O4'	7.62	118.25	109.10
26	BB	27	G	N3-C4-N9	7.62	130.57	126.00
26	BB	31	C	C5'-C4'-C3'	-7.62	103.81	116.00
35	BK	6	ALA	N-CA-CB	-7.62	99.43	110.10
1	AA	392	C	O4'-C1'-N1	7.62	114.30	108.20
1	AA	978	A	C5'-C4'-O4'	7.62	118.24	109.10
26	BB	414	C	C6-N1-C2	-7.62	117.25	120.30
26	BB	858	G	N3-C4-C5	-7.62	124.79	128.60
26	BB	2337	G	C1'-O4'-C4'	-7.62	103.80	109.90
1	AA	1405	G	C1'-O4'-C4'	-7.62	103.81	109.90
26	BB	1377	G	C2-N3-C4	7.62	115.71	111.90
26	BB	1868	C	N3-C2-O2	-7.62	116.57	121.90
26	BB	2271	G	C6-N1-C2	7.62	129.67	125.10
1	AA	719	C	N1-C2-O2	7.62	123.47	118.90
1	AA	821	G	C4-C5-N7	7.62	113.85	110.80
26	BB	481	G	N3-C4-N9	7.62	130.57	126.00
26	BB	723	C	N1-C1'-C2'	-7.62	103.62	112.00
1	AA	212	G	C6-C5-N7	7.62	134.97	130.40
1	AA	733	G	N1-C2-N2	-7.62	109.34	116.20
1	AA	1010	U	C5-C4-O4	-7.62	121.33	125.90
1	AA	1237	C	N3-C2-O2	-7.62	116.57	121.90
26	BB	156	A	C5-N7-C8	7.62	107.71	103.90
26	BB	974	G	C2-N3-C4	7.62	115.71	111.90
26	BB	1720	U	C2-N3-C4	-7.62	122.43	127.00
26	BB	2142	A	C6-N1-C2	7.62	123.17	118.60
26	BB	2562	U	O4'-C1'-N1	7.62	114.29	108.20
26	BB	2681	C	N1-C1'-C2'	7.62	123.90	114.00
26	BB	2700	A	C6-N1-C2	-7.62	114.03	118.60
1	AA	214	C	C5-C4-N4	-7.61	114.87	120.20
1	AA	599	C	C6-N1-C2	7.61	123.34	120.30
1	AA	1367	C	O4'-C1'-N1	7.61	114.29	108.20
26	BB	1316	U	N3-C4-O4	7.61	124.73	119.40
26	BB	2153	C	N3-C4-C5	7.61	124.94	121.90
1	AA	1307	U	N3-C4-C5	7.61	119.17	114.60
26	BB	181	A	N7-C8-N9	-7.61	109.99	113.80
26	BB	1689	A	C5-C6-N1	7.61	121.51	117.70
1	AA	95	C	C1'-O4'-C4'	-7.61	103.81	109.90
1	AA	292	G	O4'-C1'-N9	7.61	114.29	108.20
26	BB	38	A	N1-C6-N6	-7.61	114.03	118.60
26	BB	424	G	C5-C6-O6	-7.61	124.03	128.60
26	BB	1329	U	C5-C4-O4	7.61	130.47	125.90
26	BB	1771	C	N3-C4-C5	7.61	124.94	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2121	G	N9-C4-C5	7.61	108.44	105.40
1	AA	394	G	C5-C6-N1	7.61	115.31	111.50
1	AA	426	U	C3'-C2'-C1'	7.61	107.59	101.50
1	AA	812	G	O4'-C1'-N9	7.61	114.29	108.20
2	AB	6	C	C5-C6-N1	-7.61	117.19	121.00
4	AD	74	A	C6-C5-N7	7.61	137.63	132.30
1	AA	1360	A	C8-N9-C4	-7.61	102.76	105.80
26	BB	37	C	C1'-O4'-C4'	7.61	115.99	109.90
26	BB	214	G	N1-C6-O6	7.61	124.46	119.90
26	BB	217	A	N3-C4-C5	-7.61	121.47	126.80
26	BB	689	A	N1-C6-N6	7.61	123.17	118.60
26	BB	941	A	N1-C6-N6	-7.61	114.04	118.60
26	BB	2510	C	N1-C2-O2	7.61	123.47	118.90
1	AA	309	A	C4-C5-C6	-7.61	113.20	117.00
1	AA	370	C	C2-N3-C4	7.61	123.70	119.90
1	AA	1212	U	C3'-C2'-C1'	-7.61	95.42	101.50
7	AG	12	ARG	NE-CZ-NH1	7.61	124.10	120.30
26	BB	62	U	N1-C2-N3	7.61	119.46	114.90
26	BB	1238	G	O4'-C1'-N9	7.61	114.28	108.20
26	BB	1464	G	N3-C4-C5	-7.61	124.80	128.60
26	BB	1878	G	C5-N7-C8	-7.61	100.50	104.30
26	BB	2524	G	C8-N9-C4	-7.61	103.36	106.40
1	AA	887	G	N7-C8-N9	7.60	116.90	113.10
26	BB	189	G	C5-C6-N1	-7.60	107.70	111.50
26	BB	1745	A	N9-C1'-C2'	-7.60	103.64	112.00
1	AA	82	G	N3-C4-N9	-7.60	121.44	126.00
1	AA	388	G	C2-N3-C4	7.60	115.70	111.90
1	AA	890	G	O4'-C1'-N9	7.60	114.28	108.20
1	AA	1508	A	C6-N1-C2	-7.60	114.04	118.60
26	BB	361	G	N3-C2-N2	7.60	125.22	119.90
26	BB	1433	A	N1-C2-N3	-7.60	125.50	129.30
26	BB	1900	A	C5-N7-C8	-7.60	100.10	103.90
26	BB	2027	G	O4'-C1'-C2'	7.60	114.44	107.60
26	BB	2556	C	C2-N3-C4	7.60	123.70	119.90
1	AA	646	G	C4-C5-C6	7.60	123.36	118.80
26	BB	418	C	C4-C5-C6	-7.60	113.60	117.40
26	BB	530	G	N1-C2-N3	7.60	128.46	123.90
26	BB	965	C	N1-C2-N3	-7.60	113.88	119.20
26	BB	1340	U	C6-N1-C2	-7.60	116.44	121.00
1	AA	73	C	C5-C4-N4	-7.60	114.88	120.20
1	AA	1164	G	C2-N3-C4	7.60	115.70	111.90
2	AB	53	G	N9-C4-C5	7.60	108.44	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	106	C	N3-C4-C5	-7.60	118.86	121.90
26	BB	299	A	C6-C5-N7	-7.60	126.98	132.30
26	BB	690	G	C8-N9-C4	-7.60	103.36	106.40
26	BB	1166	G	N3-C4-C5	-7.60	124.80	128.60
26	BB	1987	A	C4'-C3'-C2'	-7.60	95.00	102.60
26	BB	2289	G	C5'-C4'-O4'	7.60	118.22	109.10
26	BB	2544	G	N7-C8-N9	7.60	116.90	113.10
26	BB	2831	G	N7-C8-N9	7.60	116.90	113.10
26	BB	2892	G	C5-N7-C8	-7.60	100.50	104.30
1	AA	1280	A	O4'-C1'-N9	7.60	114.28	108.20
26	BB	444	C	N1-C2-O2	7.60	123.46	118.90
26	BB	521	U	N3-C2-O2	-7.60	116.88	122.20
26	BB	974	G	O4'-C4'-C3'	7.60	112.18	106.10
26	BB	2589	A	C2-N3-C4	7.60	114.40	110.60
26	BB	2857	G	C8-N9-C4	-7.60	103.36	106.40
1	AA	961	U	C5-C6-N1	-7.60	118.90	122.70
1	AA	1078	U	C5-C4-O4	7.60	130.46	125.90
26	BB	1363	C	N3-C2-O2	-7.60	116.58	121.90
26	BB	1472	C	O4'-C1'-N1	7.60	114.28	108.20
1	AA	205	A	N9-C4-C5	7.59	108.84	105.80
1	AA	802	A	C4-C5-C6	7.59	120.80	117.00
1	AA	1508	A	C4-C5-N7	-7.59	106.90	110.70
26	BB	903	C	C5-C6-N1	7.59	124.80	121.00
26	BB	1478	G	C4-C5-C6	-7.59	114.24	118.80
26	BB	2371	G	C2-N3-C4	7.59	115.70	111.90
26	BB	2471	A	C4'-C3'-C2'	-7.59	95.01	102.60
26	BB	2902	C	O4'-C4'-C3'	7.59	112.17	106.10
39	BO	90	GLU	OE1-CD-OE2	7.59	132.41	123.30
1	AA	742	G	C4'-C3'-C2'	-7.59	95.01	102.60
26	BB	302	C	C5-C6-N1	-7.59	117.20	121.00
26	BB	1504	A	C6-N1-C2	7.59	123.16	118.60
26	BB	1858	A	N1-C2-N3	-7.59	125.50	129.30
26	BB	2744	G	C4-C5-C6	7.59	123.36	118.80
1	AA	21	G	C2-N3-C4	7.59	115.70	111.90
1	AA	992	U	C5-C6-N1	-7.59	118.91	122.70
1	AA	1355	G	C6-C5-N7	-7.59	125.84	130.40
23	AW	28	ARG	NE-CZ-NH2	7.59	124.10	120.30
26	BB	341	C	N1-C1'-C2'	-7.59	103.65	112.00
26	BB	1027	A	C1'-O4'-C4'	-7.59	103.83	109.90
26	BB	1114	C	C4'-C3'-C2'	-7.59	95.01	102.60
26	BB	2741	A	N1-C6-N6	7.59	123.16	118.60
26	BB	2875	C	C5-C6-N1	-7.59	117.20	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	BG	73	VAL	CA-CB-CG2	7.59	122.29	110.90
1	AA	152	A	N1-C2-N3	-7.59	125.51	129.30
1	AA	1389	C	N1-C2-N3	-7.59	113.89	119.20
18	AR	79	ARG	NE-CZ-NH2	7.59	124.09	120.30
26	BB	450	G	N9-C4-C5	7.59	108.44	105.40
26	BB	643	A	N1-C2-N3	-7.59	125.51	129.30
26	BB	2147	A	N7-C8-N9	7.59	117.59	113.80
26	BB	2217	G	C4-C5-N7	-7.59	107.76	110.80
26	BB	2451	A	C2-N3-C4	7.59	114.39	110.60
26	BB	259	G	C5-N7-C8	-7.59	100.51	104.30
26	BB	1788	C	C5-C4-N4	-7.59	114.89	120.20
1	AA	192	A	N1-C6-N6	7.59	123.15	118.60
1	AA	714	G	O4'-C1'-N9	7.59	114.27	108.20
1	AA	1289	A	C5-C6-N1	-7.59	113.91	117.70
26	BB	238	C	C2-N3-C4	7.59	123.69	119.90
26	BB	495	G	C6-N1-C2	-7.59	120.55	125.10
26	BB	700	G	N1-C6-O6	-7.59	115.35	119.90
26	BB	1821	A	P-O3'-C3'	7.59	128.80	119.70
26	BB	1857	G	N3-C4-N9	7.59	130.55	126.00
26	BB	374	A	N3-C4-C5	-7.58	121.49	126.80
26	BB	1492	G	C8-N9-C4	-7.58	103.37	106.40
26	BB	1581	G	C2-N3-C4	7.58	115.69	111.90
26	BB	2201	G	N9-C1'-C2'	-7.58	103.66	112.00
1	AA	670	G	N7-C8-N9	7.58	116.89	113.10
4	AD	60	A	N9-C4-C5	7.58	108.83	105.80
26	BB	1399	C	N3-C4-C5	-7.58	118.87	121.90
26	BB	1921	G	C2-N3-C4	-7.58	108.11	111.90
1	AA	542	G	C2-N3-C4	7.58	115.69	111.90
3	AC	38	G	C5-N7-C8	7.58	108.09	104.30
24	AX	68	ARG	NE-CZ-NH2	-7.58	116.51	120.30
26	BB	519	U	C5-C4-O4	-7.58	121.35	125.90
26	BB	1682	G	N9-C1'-C2'	-7.58	103.66	112.00
26	BB	2013	A	N1-C2-N3	-7.58	125.51	129.30
26	BB	2064	C	C6-N1-C2	-7.58	117.27	120.30
26	BB	2133	G	C3'-C2'-C1'	7.58	107.56	101.50
1	AA	1178	G	N3-C4-C5	-7.58	124.81	128.60
26	BB	2769	U	N3-C2-O2	-7.58	116.89	122.20
1	AA	392	C	C4-C5-C6	7.58	121.19	117.40
1	AA	1454	G	C6-C5-N7	-7.58	125.85	130.40
4	AD	35	C	C5-C6-N1	7.58	124.79	121.00
26	BB	269	C	N1-C1'-C2'	-7.58	103.67	112.00
26	BB	524	G	N9-C4-C5	7.58	108.43	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	991	C	C1'-O4'-C4'	7.58	115.96	109.90
26	BB	1490	A	C5-C6-N6	7.58	129.76	123.70
1	AA	283	U	O4'-C1'-N1	7.58	114.26	108.20
1	AA	928	G	C4'-C3'-C2'	-7.58	95.02	102.60
19	AS	60	TRP	CD1-NE1-CE2	7.58	115.82	109.00
26	BB	110	G	O4'-C1'-N9	7.58	114.26	108.20
26	BB	326	G	C5-C6-O6	-7.58	124.05	128.60
26	BB	1731	G	N9-C4-C5	7.58	108.43	105.40
26	BB	1916	A	C6-N1-C2	7.58	123.15	118.60
1	AA	251	G	C4-C5-N7	-7.58	107.77	110.80
3	AC	41	A	C4-C5-N7	-7.58	106.91	110.70
4	AD	2	G	C3'-C2'-C1'	7.58	107.56	101.50
4	AD	32	G	N3-C4-N9	7.58	130.54	126.00
26	BB	835	C	C5'-C4'-O4'	7.58	118.19	109.10
26	BB	956	G	C6-N1-C2	-7.58	120.56	125.10
26	BB	1088	A	O4'-C1'-N9	7.58	114.26	108.20
26	BB	1241	A	O4'-C1'-N9	7.58	114.26	108.20
26	BB	2712	C	N3-C2-O2	-7.58	116.60	121.90
56	B5	39	ARG	NE-CZ-NH1	7.58	124.09	120.30
1	AA	1075	U	C3'-C2'-C1'	7.57	107.56	101.50
1	AA	1538	C	C1'-O4'-C4'	-7.57	103.84	109.90
4	AD	61	U	C2-N3-C4	-7.57	122.46	127.00
26	BB	1068	G	N9-C1'-C2'	-7.57	103.67	112.00
26	BB	2709	G	C4-C5-N7	-7.57	107.77	110.80
26	BB	2801	G	N1-C2-N2	7.57	123.02	116.20
30	BF	79	ARG	NE-CZ-NH1	7.57	124.09	120.30
1	AA	1042	A	C8-N9-C4	-7.57	102.77	105.80
1	AA	1186	G	C5-C6-O6	7.57	133.14	128.60
26	BB	83	A	N9-C4-C5	-7.57	102.77	105.80
26	BB	947	A	N1-C6-N6	-7.57	114.06	118.60
26	BB	984	A	C6-N1-C2	-7.57	114.06	118.60
1	AA	73	C	C6-N1-C2	-7.57	117.27	120.30
1	AA	415	A	C1'-O4'-C4'	7.57	115.96	109.90
1	AA	1000	A	N7-C8-N9	-7.57	110.02	113.80
1	AA	1442	G	C4-C5-N7	-7.57	107.77	110.80
26	BB	5	A	C8-N9-C4	-7.57	102.77	105.80
26	BB	608	A	C5-C6-N6	7.57	129.76	123.70
26	BB	974	G	O4'-C1'-N9	7.57	114.26	108.20
26	BB	1744	A	N9-C1'-C2'	-7.57	103.67	112.00
26	BB	2186	G	C2-N3-C4	-7.57	108.11	111.90
26	BB	2596	U	C4-C5-C6	7.57	124.24	119.70
26	BB	2815	C	N3-C4-C5	-7.57	118.87	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BP	2	ARG	NE-CZ-NH1	7.57	124.08	120.30
1	AA	524	G	N1-C6-O6	-7.57	115.36	119.90
26	BB	631	A	N9-C4-C5	-7.57	102.77	105.80
1	AA	1035	A	N1-C2-N3	-7.57	125.52	129.30
1	AA	1113	C	C5-C6-N1	7.57	124.78	121.00
2	AB	29	G	N9-C1'-C2'	-7.57	103.68	112.00
26	BB	145	C	N1-C2-O2	-7.57	114.36	118.90
26	BB	174	U	C2-N3-C4	-7.57	122.46	127.00
26	BB	287	G	C1'-O4'-C4'	-7.57	103.85	109.90
26	BB	1067	A	C2-N3-C4	7.57	114.38	110.60
26	BB	1283	G	P-O3'-C3'	7.57	128.78	119.70
26	BB	2276	G	C6-C5-N7	-7.57	125.86	130.40
1	AA	3	A	C3'-C2'-C1'	7.57	107.55	101.50
1	AA	141	G	C4'-C3'-C2'	-7.57	95.03	102.60
1	AA	747	A	N1-C2-N3	-7.57	125.52	129.30
26	BB	62	U	C6-N1-C2	-7.57	116.46	121.00
26	BB	274	C	C5'-C4'-O4'	7.57	118.18	109.10
26	BB	843	G	C5-C6-N1	7.57	115.28	111.50
26	BB	1455	G	N1-C2-N3	-7.57	119.36	123.90
28	BD	167	ASP	CB-CG-OD1	-7.57	111.49	118.30
1	AA	69	G	C5-C6-O6	-7.56	124.06	128.60
26	BB	1185	G	C6-C5-N7	7.56	134.94	130.40
1	AA	959	A	C8-N9-C4	-7.56	102.78	105.80
1	AA	1064	G	N7-C8-N9	7.56	116.88	113.10
1	AA	1321	U	P-O3'-C3'	7.56	128.77	119.70
1	AA	1511	G	C6-N1-C2	-7.56	120.56	125.10
3	AC	43	U	C3'-C2'-C1'	7.56	107.55	101.50
9	AI	112	ARG	NE-CZ-NH1	-7.56	116.52	120.30
25	BA	38	C	O4'-C1'-N1	7.56	114.25	108.20
26	BB	43	G	N3-C2-N2	7.56	125.19	119.90
26	BB	377	G	C2-N3-C4	7.56	115.68	111.90
26	BB	1213	A	O5'-P-OP2	-7.56	98.89	105.70
26	BB	1245	G	O4'-C1'-N9	7.56	114.25	108.20
1	AA	143	A	C5-C6-N1	7.56	121.48	117.70
1	AA	1287	A	C5-C6-N1	7.56	121.48	117.70
26	BB	547	A	O4'-C1'-N9	7.56	114.25	108.20
26	BB	1532	A	C1'-O4'-C4'	7.56	115.95	109.90
26	BB	1627	G	N9-C4-C5	7.56	108.42	105.40
26	BB	1948	G	N3-C4-N9	7.56	130.54	126.00
1	AA	934	C	N1-C2-O2	7.56	123.44	118.90
26	BB	12	U	O4'-C1'-N1	7.56	114.25	108.20
26	BB	265	A	C2-N3-C4	7.56	114.38	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	514	A	O4'-C1'-N9	7.56	114.25	108.20
26	BB	1110	G	C4-C5-N7	-7.56	107.78	110.80
26	BB	1500	G	O4'-C1'-N9	7.56	114.25	108.20
1	AA	7	A	P-O5'-C5'	7.56	132.99	120.90
1	AA	212	G	N3-C2-N2	-7.56	114.61	119.90
1	AA	344	A	C4-C5-C6	7.56	120.78	117.00
1	AA	353	A	O4'-C1'-N9	7.56	114.25	108.20
1	AA	763	G	P-O3'-C3'	7.56	128.77	119.70
1	AA	928	G	N7-C8-N9	7.56	116.88	113.10
1	AA	1062	U	N1-C2-N3	7.56	119.43	114.90
1	AA	1110	A	N9-C1'-C2'	-7.56	103.69	112.00
1	AA	1157	A	N7-C8-N9	7.56	117.58	113.80
1	AA	1491	G	N9-C4-C5	-7.56	102.38	105.40
26	BB	584	C	C3'-C2'-C1'	7.56	107.55	101.50
26	BB	1500	G	C6-N1-C2	-7.56	120.57	125.10
1	AA	542	G	C4'-C3'-C2'	-7.56	95.04	102.60
26	BB	84	A	O4'-C1'-N9	7.56	114.25	108.20
26	BB	2133	G	O4'-C1'-N9	7.56	114.24	108.20
26	BB	2727	A	C3'-C2'-C1'	-7.56	95.45	101.50
1	AA	1191	A	N3-C4-C5	-7.55	121.51	126.80
1	AA	1293	C	N3-C4-N4	7.55	123.29	118.00
4	AD	2	G	C5'-C4'-O4'	7.55	118.17	109.10
26	BB	440	C	N1-C2-O2	7.55	123.43	118.90
26	BB	474	G	C5-N7-C8	-7.55	100.52	104.30
26	BB	1045	C	N1-C2-O2	7.55	123.43	118.90
26	BB	1759	A	C8-N9-C4	-7.55	102.78	105.80
26	BB	2102	G	O4'-C4'-C3'	7.55	112.14	106.10
26	BB	2713	U	N3-C4-C5	-7.55	110.07	114.60
26	BB	2891	U	C1'-O4'-C4'	7.55	115.94	109.90
30	BF	117	ARG	NE-CZ-NH2	-7.55	116.52	120.30
26	BB	1685	C	C4'-C3'-C2'	-7.55	95.05	102.60
26	BB	1735	A	N1-C2-N3	-7.55	125.52	129.30
26	BB	2289	G	N3-C4-C5	-7.55	124.82	128.60
3	AC	47	C	N1-C2-O2	7.55	123.43	118.90
25	BA	8	C	N3-C4-N4	7.55	123.29	118.00
25	BA	36	C	O4'-C1'-N1	7.55	114.24	108.20
25	BA	112	G	C5-N7-C8	7.55	108.08	104.30
26	BB	409	G	N3-C4-C5	-7.55	124.83	128.60
26	BB	1224	U	C2-N1-C1'	7.55	126.76	117.70
26	BB	1766	G	N9-C4-C5	7.55	108.42	105.40
26	BB	1871	A	N3-C4-C5	-7.55	121.51	126.80
38	BN	48	ARG	NE-CZ-NH2	-7.55	116.52	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	204	G	N7-C8-N9	7.55	116.87	113.10
1	AA	378	G	C6-C5-N7	-7.55	125.87	130.40
26	BB	250	G	N3-C4-N9	-7.55	121.47	126.00
26	BB	381	G	C5-C6-O6	-7.55	124.07	128.60
26	BB	407	G	C8-N9-C4	-7.55	103.38	106.40
26	BB	760	G	C3'-C2'-C1'	-7.55	95.46	101.50
26	BB	983	A	C2-N3-C4	7.55	114.38	110.60
26	BB	1232	G	C5-C6-N1	-7.55	107.73	111.50
26	BB	1366	A	C8-N9-C4	7.55	108.82	105.80
26	BB	2808	G	N7-C8-N9	7.55	116.88	113.10
1	AA	976	G	C6-C5-N7	-7.55	125.87	130.40
26	BB	489	G	C4-C5-N7	-7.55	107.78	110.80
26	BB	586	A	C8-N9-C4	-7.55	102.78	105.80
26	BB	1629	U	C4-C5-C6	7.55	124.23	119.70
26	BB	2857	G	C6-C5-N7	-7.55	125.87	130.40
1	AA	1241	G	C6-C5-N7	-7.55	125.87	130.40
2	AB	56	C	N3-C4-N4	-7.55	112.72	118.00
26	BB	338	G	C5-N7-C8	-7.55	100.53	104.30
26	BB	567	U	N3-C4-C5	-7.55	110.07	114.60
26	BB	1327	A	C2-N3-C4	7.55	114.37	110.60
1	AA	351	G	N3-C4-N9	-7.54	121.47	126.00
26	BB	1292	G	N3-C4-C5	-7.54	124.83	128.60
26	BB	2598	A	O4'-C1'-N9	7.54	114.24	108.20
1	AA	315	A	C8-N9-C4	7.54	108.82	105.80
4	AD	73	A	C6-C5-N7	7.54	137.58	132.30
26	BB	276	U	C5-C6-N1	7.54	126.47	122.70
26	BB	765	C	N3-C4-C5	-7.54	118.88	121.90
26	BB	1040	A	C5-N7-C8	-7.54	100.13	103.90
26	BB	1930	G	C6-N1-C2	-7.54	120.57	125.10
26	BB	2331	G	C5-C6-O6	-7.54	124.07	128.60
26	BB	2549	G	N1-C6-O6	-7.54	115.37	119.90
1	AA	211	G	C5-N7-C8	-7.54	100.53	104.30
1	AA	789	U	C5-C6-N1	-7.54	118.93	122.70
1	AA	997	U	N1-C2-N3	7.54	119.42	114.90
1	AA	1045	C	N3-C4-C5	-7.54	118.88	121.90
1	AA	1515	G	C5-C6-O6	-7.54	124.08	128.60
26	BB	311	A	N7-C8-N9	7.54	117.57	113.80
26	BB	2902	C	O4'-C1'-N1	7.54	114.23	108.20
1	AA	799	G	C5-C6-N1	7.54	115.27	111.50
1	AA	816	A	N1-C2-N3	-7.54	125.53	129.30
1	AA	1073	U	C3'-C2'-C1'	7.54	107.53	101.50
1	AA	1335	U	C5-C4-O4	7.54	130.42	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	27	C	O4'-C1'-N1	7.54	114.23	108.20
26	BB	2432	A	C4-C5-N7	-7.54	106.93	110.70
26	BB	2671	G	N3-C4-N9	7.54	130.52	126.00
26	BB	2829	A	N3-C4-N9	7.54	133.43	127.40
29	BE	124	ARG	NH1-CZ-NH2	-7.54	111.11	119.40
1	AA	76	G	C5-C6-N1	7.54	115.27	111.50
1	AA	955	U	N3-C4-C5	-7.54	110.08	114.60
1	AA	1146	A	C8-N9-C4	-7.54	102.78	105.80
1	AA	1302	C	C2'-C3'-O3'	7.54	126.08	109.50
26	BB	2121	G	O4'-C1'-N9	7.54	114.23	108.20
26	BB	2256	G	C5-C6-N1	7.54	115.27	111.50
26	BB	2808	G	N1-C2-N3	-7.54	119.38	123.90
3	AC	54	U	N3-C2-O2	-7.54	116.92	122.20
26	BB	436	C	N1-C1'-C2'	-7.54	103.71	112.00
26	BB	628	G	C5-C6-O6	-7.54	124.08	128.60
1	AA	1397	C	C3'-C2'-C1'	-7.54	95.47	101.50
1	AA	1531	A	C4-C5-C6	-7.54	113.23	117.00
25	BA	35	C	C3'-C2'-C1'	7.54	107.53	101.50
26	BB	552	U	C2-N3-C4	-7.54	122.48	127.00
26	BB	909	A	N9-C1'-C2'	-7.54	103.71	112.00
26	BB	1472	C	C2-N3-C4	7.54	123.67	119.90
26	BB	1870	C	C4'-C3'-C2'	-7.54	95.06	102.60
26	BB	2028	U	P-O3'-C3'	7.54	128.74	119.70
26	BB	2426	A	O4'-C1'-N9	7.54	114.23	108.20
1	AA	187	G	C4'-C3'-C2'	-7.53	95.07	102.60
1	AA	1359	C	N3-C2-O2	-7.53	116.63	121.90
26	BB	459	U	O4'-C1'-N1	7.53	114.23	108.20
26	BB	469	G	C8-N9-C4	7.53	109.41	106.40
26	BB	490	C	C1'-O4'-C4'	-7.53	103.87	109.90
26	BB	712	G	C2-N3-C4	7.53	115.67	111.90
26	BB	1697	G	C4-C5-N7	-7.53	107.79	110.80
26	BB	1984	G	C4-C5-N7	7.53	113.81	110.80
26	BB	2435	A	N3-C4-C5	-7.53	121.53	126.80
26	BB	2569	G	N9-C4-C5	-7.53	102.39	105.40
28	BD	86	ARG	CD-NE-CZ	7.53	134.15	123.60
1	AA	606	G	O4'-C1'-N9	7.53	114.23	108.20
1	AA	812	G	C6-C5-N7	-7.53	125.88	130.40
1	AA	1041	G	N9-C1'-C2'	-7.53	103.72	112.00
26	BB	1264	A	C8-N9-C4	-7.53	102.79	105.80
26	BB	1817	G	O4'-C1'-N9	7.53	114.22	108.20
26	BB	1845	G	N1-C6-O6	-7.53	115.38	119.90
1	AA	767	A	C5-C6-N6	-7.53	117.68	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1156	G	C6-N1-C2	-7.53	120.58	125.10
12	AL	94	ARG	NH1-CZ-NH2	7.53	127.69	119.40
26	BB	570	G	C5'-C4'-C3'	-7.53	103.95	116.00
26	BB	1473	G	N7-C8-N9	7.53	116.86	113.10
26	BB	1947	C	C2-N3-C4	-7.53	116.14	119.90
26	BB	2303	G	N1-C6-O6	-7.53	115.38	119.90
26	BB	2318	G	C5-N7-C8	-7.53	100.53	104.30
26	BB	2358	A	C8-N9-C4	7.53	108.81	105.80
1	AA	54	C	C4-C5-C6	-7.53	113.64	117.40
1	AA	426	U	C5-C4-O4	-7.53	121.38	125.90
26	BB	1102	C	C5'-C4'-O4'	7.53	118.13	109.10
26	BB	2340	A	C8-N9-C4	-7.53	102.79	105.80
26	BB	2715	C	C5-C6-N1	7.53	124.76	121.00
26	BB	2744	G	C5-N7-C8	7.53	108.06	104.30
26	BB	772	C	P-O3'-C3'	7.53	128.73	119.70
26	BB	1564	C	C4'-C3'-C2'	-7.53	95.07	102.60
26	BB	2020	A	C5-C6-N1	-7.53	113.94	117.70
1	AA	336	A	C2-N3-C4	7.53	114.36	110.60
1	AA	648	A	C5-C6-N6	-7.53	117.68	123.70
1	AA	1330	U	C4'-C3'-C2'	-7.53	95.08	102.60
13	AM	95	GLY	CA-C-O	-7.53	107.05	120.60
26	BB	180	G	N3-C4-C5	-7.53	124.84	128.60
26	BB	350	G	C5-C6-O6	-7.53	124.08	128.60
26	BB	1744	A	N7-C8-N9	7.53	117.56	113.80
26	BB	1806	C	O4'-C1'-N1	7.53	114.22	108.20
26	BB	1848	A	C4'-C3'-C2'	-7.53	95.07	102.60
1	AA	1227	A	C2-N3-C4	7.52	114.36	110.60
26	BB	1767	G	C5-C6-N1	-7.52	107.74	111.50
1	AA	493	A	C4-C5-N7	7.52	114.46	110.70
1	AA	677	U	P-O3'-C3'	7.52	128.73	119.70
1	AA	1127	G	N9-C1'-C2'	-7.52	103.72	112.00
26	BB	297	G	C4-C5-C6	7.52	123.31	118.80
26	BB	780	G	N1-C2-N2	-7.52	109.43	116.20
26	BB	1824	G	C3'-C2'-C1'	7.52	107.52	101.50
26	BB	1950	G	N1-C6-O6	-7.52	115.39	119.90
26	BB	2630	G	N1-C2-N3	7.52	128.41	123.90
26	BB	2693	G	N3-C2-N2	-7.52	114.63	119.90
26	BB	2771	C	N1-C2-N3	7.52	124.47	119.20
1	AA	1079	G	C6-N1-C2	-7.52	120.59	125.10
26	BB	1664	A	C5'-C4'-O4'	7.52	118.12	109.10
26	BB	1743	G	C8-N9-C4	-7.52	103.39	106.40
26	BB	2087	G	C8-N9-C4	-7.52	103.39	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2578	G	C5-N7-C8	7.52	108.06	104.30
1	AA	764	C	N1-C2-N3	7.52	124.46	119.20
1	AA	770	C	O4'-C1'-N1	7.52	114.22	108.20
1	AA	1044	A	C5-C6-N6	-7.52	117.69	123.70
1	AA	1298	U	O4'-C1'-N1	7.52	114.22	108.20
1	AA	1324	A	C3'-C2'-C1'	-7.52	95.48	101.50
1	AA	1494	G	C6-C5-N7	-7.52	125.89	130.40
26	BB	851	C	N3-C2-O2	-7.52	116.64	121.90
26	BB	2459	A	N3-C4-C5	-7.52	121.54	126.80
1	AA	938	A	N9-C4-C5	7.52	108.81	105.80
1	AA	1131	G	C6-C5-N7	-7.52	125.89	130.40
26	BB	508	A	C4'-C3'-C2'	-7.52	95.08	102.60
26	BB	618	G	C5'-C4'-O4'	7.52	118.12	109.10
26	BB	1610	A	C2-N3-C4	7.52	114.36	110.60
26	BB	1645	G	N7-C8-N9	7.52	116.86	113.10
26	BB	1834	U	C4'-C3'-C2'	-7.52	95.08	102.60
26	BB	2294	G	C5-N7-C8	-7.52	100.54	104.30
25	BA	74	U	O4'-C1'-C2'	7.52	114.36	107.60
26	BB	1408	G	C6-N1-C2	-7.52	120.59	125.10
26	BB	1656	C	O4'-C1'-N1	7.52	114.21	108.20
26	BB	1989	G	N1-C6-O6	-7.52	115.39	119.90
1	AA	303	A	C5'-C4'-O4'	7.51	118.12	109.10
1	AA	690	G	N3-C4-C5	-7.51	124.84	128.60
4	AD	63	C	N1-C2-O2	7.51	123.41	118.90
25	BA	43	C	C3'-C2'-C1'	7.51	107.51	101.50
26	BB	385	C	N3-C4-N4	7.51	123.26	118.00
26	BB	490	C	C6-N1-C2	-7.51	117.29	120.30
26	BB	557	C	C2-N3-C4	7.51	123.66	119.90
26	BB	696	G	N3-C4-C5	-7.51	124.84	128.60
26	BB	965	C	O4'-C1'-N1	7.51	114.21	108.20
26	BB	1041	G	N1-C2-N3	7.51	128.41	123.90
26	BB	1161	C	C4-C5-C6	7.51	121.16	117.40
26	BB	1777	U	C2-N3-C4	-7.51	122.49	127.00
26	BB	2418	A	N1-C2-N3	-7.51	125.54	129.30
26	BB	2493	U	N1-C2-N3	7.51	119.41	114.90
26	BB	2720	U	C2-N3-C4	-7.51	122.49	127.00
1	AA	1039	G	C8-N9-C4	-7.51	103.39	106.40
1	AA	112	G	N1-C6-O6	-7.51	115.39	119.90
1	AA	1088	G	N1-C2-N3	7.51	128.41	123.90
3	AC	33	A	C4'-C3'-C2'	-7.51	95.09	102.60
4	AD	52	C	C5-C6-N1	7.51	124.76	121.00
26	BB	202	U	N1-C2-N3	7.51	119.41	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	749	A	C4'-C3'-C2'	-7.51	95.09	102.60
26	BB	818	G	C8-N9-C4	-7.51	103.40	106.40
26	BB	1248	G	O4'-C1'-N9	7.51	114.21	108.20
26	BB	1624	U	N3-C2-O2	-7.51	116.94	122.20
26	BB	1937	A	N7-C8-N9	7.51	117.56	113.80
26	BB	1980	G	C5-N7-C8	-7.51	100.55	104.30
26	BB	2165	C	C3'-C2'-C1'	7.51	107.51	101.50
26	BB	2876	G	C5-C6-O6	-7.51	124.09	128.60
1	AA	1534	A	O4'-C1'-N9	7.51	114.21	108.20
26	BB	986	C	N1-C2-O2	7.51	123.41	118.90
26	BB	1185	G	C2-N3-C4	7.51	115.66	111.90
26	BB	1707	G	N1-C6-O6	7.51	124.41	119.90
1	AA	410	G	C4'-C3'-C2'	-7.51	95.09	102.60
1	AA	565	U	C2-N3-C4	-7.51	122.50	127.00
1	AA	1181	G	C8-N9-C4	-7.51	103.40	106.40
26	BB	2053	G	C8-N9-C4	-7.51	103.40	106.40
3	AC	56	G	C4-C5-N7	7.51	113.80	110.80
26	BB	1430	G	N7-C8-N9	7.51	116.85	113.10
26	BB	2312	U	C2-N3-C4	-7.51	122.50	127.00
1	AA	111	G	N3-C2-N2	-7.50	114.65	119.90
1	AA	303	A	C4-C5-C6	7.50	120.75	117.00
1	AA	616	G	N1-C2-N3	7.50	128.40	123.90
26	BB	1620	G	C5-N7-C8	-7.50	100.55	104.30
26	BB	1792	G	C4-C5-N7	-7.50	107.80	110.80
26	BB	2446	G	C5-C6-O6	-7.50	124.10	128.60
1	AA	113	G	N1-C2-N2	7.50	122.95	116.20
1	AA	1069	C	N3-C2-O2	-7.50	116.65	121.90
25	BA	102	G	C8-N9-C4	-7.50	103.40	106.40
26	BB	647	G	N7-C8-N9	7.50	116.85	113.10
26	BB	1771	C	C4-C5-C6	-7.50	113.65	117.40
1	AA	111	G	N3-C4-C5	-7.50	124.85	128.60
1	AA	983	A	C6-N1-C2	7.50	123.10	118.60
26	BB	85	G	O4'-C1'-N9	-7.50	102.20	108.20
26	BB	628	G	C5-N7-C8	-7.50	100.55	104.30
26	BB	762	U	C2-N3-C4	7.50	131.50	127.00
26	BB	773	U	O4'-C4'-C3'	7.50	112.10	106.10
26	BB	1635	A	C5-C6-N6	-7.50	117.70	123.70
26	BB	1788	C	C6-N1-C2	-7.50	117.30	120.30
26	BB	1891	G	C5-N7-C8	-7.50	100.55	104.30
26	BB	2419	U	N3-C2-O2	-7.50	116.95	122.20
26	BB	2600	A	N1-C6-N6	-7.50	114.10	118.60
28	BD	143	VAL	CA-CB-CG1	-7.50	99.65	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	224	U	P-O3'-C3'	7.50	128.70	119.70
1	AA	1000	A	C5-N7-C8	7.50	107.65	103.90
12	AL	63	TYR	CB-CG-CD1	-7.50	116.50	121.00
26	BB	1143	A	N1-C2-N3	-7.50	125.55	129.30
26	BB	1805	A	N9-C4-C5	7.50	108.80	105.80
26	BB	2113	U	C5-C4-O4	-7.50	121.40	125.90
26	BB	2650	U	C5-C4-O4	-7.50	121.40	125.90
1	AA	796	C	O4'-C1'-N1	7.50	114.20	108.20
1	AA	1032	G	C8-N9-C4	-7.50	103.40	106.40
1	AA	1144	G	N7-C8-N9	7.50	116.85	113.10
25	BA	42	C	C5'-C4'-O4'	7.50	118.10	109.10
26	BB	674	G	N1-C2-N3	7.50	128.40	123.90
26	BB	2731	G	N9-C4-C5	-7.50	102.40	105.40
1	AA	491	G	C8-N9-C4	-7.50	103.40	106.40
1	AA	528	C	C5'-C4'-O4'	7.50	118.10	109.10
1	AA	644	U	C4-C5-C6	7.50	124.20	119.70
26	BB	300	A	O4'-C1'-N9	7.50	114.20	108.20
26	BB	516	C	N3-C2-O2	-7.50	116.65	121.90
26	BB	665	U	C5-C4-O4	-7.50	121.40	125.90
26	BB	1462	C	N3-C4-N4	-7.50	112.75	118.00
26	BB	1762	A	N7-C8-N9	7.50	117.55	113.80
26	BB	1968	G	O4'-C1'-N9	7.50	114.20	108.20
26	BB	2189	U	N1-C2-O2	7.50	128.05	122.80
26	BB	2563	U	N3-C2-O2	-7.50	116.95	122.20
1	AA	796	C	C4'-C3'-C2'	-7.50	95.11	102.60
25	BA	44	G	C6-C5-N7	7.50	134.90	130.40
26	BB	631	A	O4'-C4'-C3'	7.50	112.10	106.10
26	BB	2102	G	O5'-P-OP1	-7.50	98.95	105.70
52	B1	44	ARG	NE-CZ-NH1	-7.50	116.55	120.30
1	AA	412	A	O4'-C1'-N9	7.49	114.19	108.20
1	AA	771	G	C6-C5-N7	-7.49	125.90	130.40
1	AA	1347	G	N9-C4-C5	7.49	108.40	105.40
4	AD	57	C	N3-C2-O2	-7.49	116.65	121.90
7	AG	13	ARG	NE-CZ-NH2	7.49	124.05	120.30
26	BB	638	G	C8-N9-C4	-7.49	103.40	106.40
26	BB	1454	C	C6-N1-C2	-7.49	117.30	120.30
26	BB	1901	A	N1-C6-N6	-7.49	114.10	118.60
26	BB	2154	A	O4'-C4'-C3'	7.49	112.09	106.10
26	BB	2465	C	C6-N1-C2	-7.49	117.30	120.30
26	BB	2514	U	O5'-P-OP2	-7.49	98.96	105.70
26	BB	2736	A	C5-C6-N1	7.49	121.45	117.70
26	BB	24	G	O4'-C1'-N9	7.49	114.19	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	276	U	C4-C5-C6	-7.49	115.20	119.70
26	BB	564	C	C4-C5-C6	7.49	121.15	117.40
1	AA	963	G	N9-C1'-C2'	-7.49	103.76	112.00
3	AC	23	C	C4-C5-C6	-7.49	113.66	117.40
25	BA	33	G	N3-C2-N2	7.49	125.14	119.90
26	BB	993	G	C5-N7-C8	-7.49	100.56	104.30
26	BB	1356	G	N3-C4-C5	-7.49	124.85	128.60
26	BB	2314	A	C2-N3-C4	7.49	114.34	110.60
1	AA	145	G	C4-C5-N7	-7.49	107.81	110.80
1	AA	1238	A	P-O3'-C3'	7.49	128.69	119.70
17	AQ	32	ASP	CB-CG-OD2	-7.49	111.56	118.30
26	BB	386	G	C8-N9-C4	-7.49	103.41	106.40
26	BB	1690	A	N9-C4-C5	7.49	108.80	105.80
26	BB	2091	C	C5-C6-N1	7.49	124.74	121.00
26	BB	2608	G	N7-C8-N9	7.49	116.84	113.10
1	AA	112	G	C6-N1-C2	-7.49	120.61	125.10
1	AA	1318	A	C8-N9-C4	-7.49	102.81	105.80
26	BB	69	C	N1-C2-O2	7.49	123.39	118.90
26	BB	875	G	N9-C1'-C2'	-7.49	103.76	112.00
26	BB	1280	G	O4'-C1'-N9	7.49	114.19	108.20
26	BB	2534	A	N9-C4-C5	7.49	108.80	105.80
26	BB	2805	C	C5-C6-N1	7.49	124.74	121.00
1	AA	865	A	N3-C4-N9	-7.49	121.41	127.40
26	BB	1558	C	N1-C2-O2	7.49	123.39	118.90
26	BB	2287	A	C8-N9-C4	-7.49	102.81	105.80
26	BB	2464	G	N3-C4-C5	-7.49	124.86	128.60
26	BB	2816	G	N3-C4-C5	-7.49	124.86	128.60
1	AA	745	G	N9-C4-C5	7.48	108.39	105.40
4	AD	41	C	N1-C2-N3	-7.48	113.96	119.20
17	AQ	12	ARG	NE-CZ-NH2	-7.48	116.56	120.30
26	BB	181	A	C6-N1-C2	7.48	123.09	118.60
26	BB	1182	G	N1-C6-O6	-7.48	115.41	119.90
26	BB	1714	U	N3-C2-O2	-7.48	116.96	122.20
26	BB	1935	G	C4-C5-N7	7.48	113.79	110.80
26	BB	1965	C	O4'-C1'-N1	7.48	114.19	108.20
1	AA	153	C	N1-C2-N3	-7.48	113.96	119.20
1	AA	1154	G	C1'-O4'-C4'	7.48	115.89	109.90
1	AA	1199	U	C5-C6-N1	-7.48	118.96	122.70
26	BB	1530	G	N3-C4-C5	-7.48	124.86	128.60
26	BB	2351	G	C6-C5-N7	-7.48	125.91	130.40
1	AA	1076	U	N3-C4-C5	-7.48	110.11	114.60
2	AB	36	A	C5'-C4'-C3'	-7.48	104.03	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	59	G	N9-C4-C5	7.48	108.39	105.40
25	BA	119	A	C6-N1-C2	-7.48	114.11	118.60
26	BB	474	G	N1-C2-N2	7.48	122.93	116.20
26	BB	1065	U	N3-C2-O2	-7.48	116.96	122.20
26	BB	1307	A	N7-C8-N9	7.48	117.54	113.80
26	BB	1393	A	N1-C6-N6	7.48	123.09	118.60
26	BB	1945	G	N3-C2-N2	7.48	125.14	119.90
26	BB	2162	G	N1-C6-O6	-7.48	115.41	119.90
26	BB	2670	A	N1-C6-N6	-7.48	114.11	118.60
1	AA	44	A	C5-C6-N6	-7.48	117.72	123.70
1	AA	793	U	N1-C1'-C2'	7.48	123.72	114.00
1	AA	1388	C	O4'-C1'-N1	7.48	114.18	108.20
2	AB	63	C	C6-N1-C2	-7.48	117.31	120.30
4	AD	42	C	C5-C6-N1	-7.48	117.26	121.00
26	BB	181	A	C5-C6-N1	-7.48	113.96	117.70
26	BB	900	A	C5'-C4'-O4'	7.48	118.07	109.10
26	BB	1698	A	C1'-O4'-C4'	7.48	115.88	109.90
26	BB	2144	G	C8-N9-C4	-7.48	103.41	106.40
26	BB	2402	U	O4'-C4'-C3'	-7.48	96.52	104.00
30	BF	83	VAL	CA-CB-CG1	7.48	122.12	110.90
1	AA	1108	G	N3-C4-C5	-7.48	124.86	128.60
25	BA	41	G	N1-C2-N2	7.48	122.93	116.20
26	BB	2133	G	N7-C8-N9	7.48	116.84	113.10
26	BB	2377	A	N9-C4-C5	7.48	108.79	105.80
26	BB	2886	A	C6-N1-C2	-7.48	114.11	118.60
1	AA	1006	G	C8-N9-C4	-7.47	103.41	106.40
22	AV	44	ILE	C-N-CA	7.47	138.00	122.30
26	BB	270	A	C3'-C2'-C1'	7.47	107.48	101.50
26	BB	935	C	N3-C4-C5	-7.47	118.91	121.90
26	BB	1684	G	N1-C6-O6	7.47	124.38	119.90
26	BB	1879	C	C5-C6-N1	7.47	124.74	121.00
26	BB	2211	A	C4'-C3'-C2'	-7.47	95.13	102.60
26	BB	2634	A	C1'-O4'-C4'	7.47	115.88	109.90
26	BB	2649	C	N1-C2-N3	7.47	124.43	119.20
26	BB	2742	G	C2-N3-C4	-7.47	108.16	111.90
1	AA	408	A	O4'-C4'-C3'	7.47	112.08	106.10
1	AA	1048	G	N1-C6-O6	7.47	124.38	119.90
1	AA	1480	A	O4'-C1'-N9	7.47	114.18	108.20
1	AA	1525	G	N1-C2-N2	7.47	122.92	116.20
4	AD	14	A	C2-N3-C4	7.47	114.34	110.60
26	BB	634	C	N3-C4-N4	7.47	123.23	118.00
26	BB	942	G	C4'-C3'-C2'	-7.47	95.13	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1337	G	N7-C8-N9	-7.47	109.36	113.10
26	BB	1403	A	C4-C5-C6	-7.47	113.26	117.00
26	BB	1899	A	C2-N3-C4	7.47	114.34	110.60
1	AA	858	G	C5-N7-C8	-7.47	100.56	104.30
1	AA	1231	G	C1'-O4'-C4'	7.47	115.88	109.90
1	AA	1391	U	O4'-C1'-N1	7.47	114.18	108.20
1	AA	1497	G	N1-C2-N3	-7.47	119.42	123.90
26	BB	2677	G	C6-C5-N7	-7.47	125.92	130.40
4	AD	11	A	C6-N1-C2	7.47	123.08	118.60
25	BA	62	C	O4'-C1'-N1	7.47	114.17	108.20
26	BB	438	G	C8-N9-C1'	7.47	136.71	127.00
26	BB	541	A	C3'-C2'-C1'	-7.47	95.52	101.50
26	BB	766	U	N3-C2-O2	-7.47	116.97	122.20
26	BB	837	C	C4'-C3'-C2'	-7.47	95.13	102.60
26	BB	1871	A	C8-N9-C4	-7.47	102.81	105.80
26	BB	1875	G	C4'-C3'-C2'	-7.47	95.13	102.60
26	BB	2325	G	C5-N7-C8	7.47	108.03	104.30
26	BB	2499	C	N3-C4-C5	-7.47	118.91	121.90
26	BB	2670	A	N9-C1'-C2'	-7.47	103.78	112.00
52	B1	26	LEU	CB-CG-CD1	7.47	123.70	111.00
1	AA	502	A	N1-C6-N6	-7.47	114.12	118.60
1	AA	663	A	C5-C6-N1	7.47	121.43	117.70
1	AA	856	C	C5-C6-N1	7.47	124.73	121.00
26	BB	875	G	C8-N9-C4	7.47	109.39	106.40
26	BB	2651	C	N1-C2-O2	7.47	123.38	118.90
1	AA	172	A	N7-C8-N9	7.47	117.53	113.80
1	AA	287	U	C4'-C3'-C2'	-7.47	95.13	102.60
1	AA	502	A	C3'-C2'-C1'	7.47	107.47	101.50
1	AA	953	G	C5-N7-C8	7.47	108.03	104.30
1	AA	1236	A	C2-N3-C4	-7.47	106.87	110.60
18	AR	57	ARG	NE-CZ-NH2	-7.47	116.57	120.30
26	BB	627	A	C8-N9-C4	-7.47	102.81	105.80
26	BB	849	A	P-O5'-C5'	7.47	132.85	120.90
26	BB	1279	G	N9-C4-C5	7.47	108.39	105.40
26	BB	2664	G	C4'-C3'-C2'	-7.47	95.13	102.60
26	BB	2840	C	N3-C2-O2	-7.47	116.67	121.90
1	AA	199	A	N1-C2-N3	-7.46	125.57	129.30
1	AA	286	C	O5'-P-OP2	-7.46	98.98	105.70
1	AA	774	G	C8-N9-C4	7.46	109.39	106.40
1	AA	1079	G	C5-C6-N1	7.46	115.23	111.50
4	AD	64	G	C4-C5-N7	-7.46	107.81	110.80
25	BA	97	C	C4-C5-C6	7.46	121.13	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	184	C	C2-N3-C4	7.46	123.63	119.90
26	BB	591	U	P-O3'-C3'	7.46	128.66	119.70
26	BB	1661	G	C3'-C2'-C1'	7.46	107.47	101.50
26	BB	2162	G	C5-C6-O6	7.46	133.08	128.60
26	BB	487	C	N3-C4-C5	7.46	124.89	121.90
26	BB	666	A	N1-C6-N6	-7.46	114.12	118.60
26	BB	1722	A	C8-N9-C4	7.46	108.78	105.80
26	BB	2547	A	C2-N3-C4	7.46	114.33	110.60
1	AA	56	U	C5-C4-O4	-7.46	121.42	125.90
1	AA	582	C	C4'-C3'-C2'	-7.46	95.14	102.60
1	AA	680	C	N3-C2-O2	-7.46	116.68	121.90
1	AA	1388	C	N3-C2-O2	-7.46	116.68	121.90
26	BB	1516	G	N1-C2-N2	7.46	122.92	116.20
26	BB	2041	U	C5-C6-N1	-7.46	118.97	122.70
26	BB	2429	G	C4-C5-N7	-7.46	107.81	110.80
26	BB	2668	G	N3-C4-C5	-7.46	124.87	128.60
26	BB	2675	A	C2-N3-C4	7.46	114.33	110.60
1	AA	669	G	N1-C2-N3	-7.46	119.42	123.90
2	AB	76	A	C5'-C4'-O4'	7.46	118.05	109.10
26	BB	120	U	N3-C4-O4	7.46	124.62	119.40
26	BB	522	A	N1-C6-N6	7.46	123.08	118.60
26	BB	1313	U	C6-N1-C2	-7.46	116.52	121.00
26	BB	1649	G	N3-C4-N9	-7.46	121.52	126.00
26	BB	1765	U	O4'-C1'-N1	7.46	114.17	108.20
26	BB	2450	A	O4'-C1'-N9	-7.46	102.23	108.20
1	AA	82	G	N9-C4-C5	7.46	108.38	105.40
1	AA	407	U	O4'-C1'-N1	7.46	114.17	108.20
1	AA	1312	G	N3-C4-C5	-7.46	124.87	128.60
25	BA	59	A	C4-C5-N7	7.46	114.43	110.70
26	BB	980	A	O4'-C4'-C3'	7.46	112.07	106.10
26	BB	1733	G	C5-C6-N1	7.46	115.23	111.50
26	BB	2340	A	C4'-C3'-C2'	-7.46	95.14	102.60
26	BB	2592	G	N7-C8-N9	7.46	116.83	113.10
32	BH	150	TYR	CG-CD1-CE1	-7.46	115.33	121.30
1	AA	764	C	O4'-C1'-N1	7.46	114.17	108.20
26	BB	256	A	C5-N7-C8	7.46	107.63	103.90
26	BB	356	G	N3-C4-C5	-7.46	124.87	128.60
26	BB	697	G	C8-N9-C4	-7.46	103.42	106.40
26	BB	763	G	N3-C4-N9	-7.46	121.53	126.00
26	BB	816	C	N1-C2-O2	7.46	123.37	118.90
26	BB	2263	C	C2-N3-C4	7.46	123.63	119.90
26	BB	2641	G	N3-C2-N2	-7.46	114.68	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	AI	42	TRP	CD1-NE1-CE2	7.46	115.71	109.00
26	BB	1045	C	C2-N1-C1'	7.46	127.00	118.80
26	BB	1067	A	P-O3'-C3'	7.46	128.65	119.70
26	BB	1254	A	N9-C1'-C2'	-7.46	103.80	112.00
26	BB	1811	G	N3-C2-N2	7.46	125.12	119.90
1	AA	1082	A	C5-C6-N1	7.45	121.43	117.70
26	BB	920	A	N9-C4-C5	-7.45	102.82	105.80
26	BB	2377	A	C4-C5-N7	-7.45	106.97	110.70
1	AA	472	U	N3-C4-C5	7.45	119.07	114.60
26	BB	643	A	C5-N7-C8	7.45	107.63	103.90
26	BB	781	A	C5'-C4'-O4'	7.45	118.04	109.10
26	BB	975	A	N7-C8-N9	7.45	117.53	113.80
26	BB	1760	C	N3-C2-O2	-7.45	116.68	121.90
4	AD	9	G	C5-C6-N1	7.45	115.22	111.50
5	AE	62	ARG	NE-CZ-NH2	7.45	124.03	120.30
26	BB	528	A	O4'-C1'-N9	7.45	114.16	108.20
26	BB	1146	C	C3'-C2'-C1'	-7.45	95.54	101.50
26	BB	2802	G	C5-C6-O6	-7.45	124.13	128.60
26	BB	2845	U	N1-C2-N3	7.45	119.37	114.90
1	AA	399	G	C4-C5-N7	-7.45	107.82	110.80
1	AA	1271	A	C4-C5-N7	7.45	114.42	110.70
26	BB	343	C	C5-C4-N4	-7.45	114.98	120.20
26	BB	402	A	N9-C4-C5	-7.45	102.82	105.80
26	BB	469	G	O4'-C1'-N9	7.45	114.16	108.20
26	BB	1168	G	C6-N1-C2	-7.45	120.63	125.10
26	BB	2011	U	O4'-C1'-N1	7.45	114.16	108.20
26	BB	2332	C	N3-C4-C5	-7.45	118.92	121.90
26	BB	2834	G	N1-C2-N3	-7.45	119.43	123.90
1	AA	31	G	N9-C4-C5	7.45	108.38	105.40
1	AA	251	G	C2-N3-C4	7.45	115.62	111.90
1	AA	421	U	O4'-C1'-N1	7.45	114.16	108.20
1	AA	711	G	N7-C8-N9	7.45	116.82	113.10
26	BB	653	U	N1-C2-N3	7.45	119.37	114.90
26	BB	754	U	N1-C2-O2	7.45	128.01	122.80
26	BB	1425	G	C5-C6-O6	7.45	133.07	128.60
26	BB	1555	G	C5'-C4'-C3'	-7.45	104.08	116.00
26	BB	1730	C	N3-C4-C5	-7.45	118.92	121.90
26	BB	2505	G	N1-C6-O6	-7.45	115.43	119.90
26	BB	2731	G	C3'-C2'-C1'	-7.45	95.54	101.50
1	AA	116	A	N9-C4-C5	-7.45	102.82	105.80
26	BB	247	G	C5-C6-O6	7.45	133.07	128.60
26	BB	734	A	C5'-C4'-O4'	7.45	118.03	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1151	A	N7-C8-N9	7.45	117.52	113.80
26	BB	1964	G	N1-C2-N3	-7.45	119.43	123.90
26	BB	2555	U	O4'-C1'-N1	7.45	114.16	108.20
26	BB	2874	C	C3'-C2'-C1'	7.45	107.46	101.50
26	BB	560	C	N3-C4-C5	-7.44	118.92	121.90
26	BB	1577	C	C6-N1-C2	-7.44	117.32	120.30
26	BB	2825	G	C5-C6-O6	7.44	133.07	128.60
1	AA	356	A	C5-C6-N6	7.44	129.66	123.70
1	AA	1430	A	C4-C5-N7	-7.44	106.98	110.70
25	BA	7	G	N9-C4-C5	-7.44	102.42	105.40
26	BB	426	C	C4'-C3'-C2'	-7.44	95.16	102.60
26	BB	528	A	N7-C8-N9	7.44	117.52	113.80
26	BB	2147	A	C5'-C4'-O4'	7.44	118.03	109.10
26	BB	2418	A	N3-C4-N9	7.44	133.35	127.40
26	BB	2791	G	C4-C5-N7	-7.44	107.82	110.80
1	AA	137	U	O4'-C1'-N1	7.44	114.15	108.20
1	AA	1499	A	C3'-C2'-C1'	-7.44	95.55	101.50
26	BB	389	G	C6-N1-C2	-7.44	120.64	125.10
43	BS	47	ARG	NE-CZ-NH1	-7.44	116.58	120.30
26	BB	1342	A	C5'-C4'-C3'	-7.44	104.10	116.00
26	BB	1849	G	O4'-C1'-N9	7.44	114.15	108.20
1	AA	833	G	O4'-C1'-N9	-7.44	102.25	108.20
26	BB	106	C	N3-C2-O2	-7.44	116.69	121.90
26	BB	922	C	N3-C4-C5	7.44	124.88	121.90
26	BB	1402	U	C5-C6-N1	7.44	126.42	122.70
26	BB	2353	G	C4-C5-C6	-7.44	114.34	118.80
26	BB	2572	A	C6-C5-N7	-7.44	127.09	132.30
26	BB	2515	C	C4'-C3'-C2'	-7.44	95.16	102.60
26	BB	2652	C	O4'-C1'-N1	7.44	114.15	108.20
1	AA	344	A	C5-N7-C8	7.43	107.62	103.90
3	AC	23	C	C3'-C2'-C1'	7.43	107.45	101.50
4	AD	75	C	C5-C6-N1	7.43	124.72	121.00
25	BA	120	U	O4'-C1'-N1	7.43	114.15	108.20
26	BB	346	A	N1-C6-N6	7.43	123.06	118.60
26	BB	580	U	C5-C4-O4	-7.43	121.44	125.90
26	BB	1256	G	C8-N9-C4	-7.43	103.43	106.40
26	BB	1579	A	C2-N3-C4	7.43	114.32	110.60
26	BB	2784	U	N3-C2-O2	-7.43	117.00	122.20
3	AC	39	U	O4'-C1'-N1	7.43	114.15	108.20
26	BB	1407	G	O4'-C1'-N9	7.43	114.15	108.20
26	BB	1788	C	N3-C2-O2	-7.43	116.70	121.90
26	BB	2162	G	C3'-C2'-C1'	7.43	107.45	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2683	C	C6-N1-C2	7.43	123.27	120.30
26	BB	2692	G	C6-N1-C2	-7.43	120.64	125.10
1	AA	246	A	C4-C5-C6	-7.43	113.28	117.00
26	BB	1300	G	O4'-C1'-N9	7.43	114.14	108.20
1	AA	22	G	N1-C2-N3	-7.43	119.44	123.90
1	AA	700	G	N1-C2-N3	7.43	128.36	123.90
1	AA	732	C	C2-N3-C4	-7.43	116.19	119.90
1	AA	812	G	N7-C8-N9	7.43	116.81	113.10
1	AA	988	G	N3-C4-N9	7.43	130.46	126.00
1	AA	1079	G	N7-C8-N9	7.43	116.81	113.10
1	AA	1125	U	N3-C2-O2	-7.43	117.00	122.20
1	AA	1134	G	C8-N9-C4	-7.43	103.43	106.40
1	AA	1270	G	C5'-C4'-O4'	7.43	118.02	109.10
26	BB	306	U	C6-N1-C2	-7.43	116.54	121.00
26	BB	443	A	C3'-C2'-C1'	7.43	107.44	101.50
1	AA	595	A	O4'-C1'-N9	7.43	114.14	108.20
1	AA	1247	U	C5-C4-O4	-7.43	121.44	125.90
26	BB	2224	G	C8-N9-C4	-7.43	103.43	106.40
26	BB	2550	G	C5-N7-C8	-7.43	100.59	104.30
1	AA	640	A	N1-C2-N3	-7.43	125.59	129.30
1	AA	694	A	C4-C5-C6	-7.43	113.29	117.00
2	AB	21	A	C4-C5-N7	7.43	114.41	110.70
26	BB	332	A	C2-N3-C4	7.43	114.31	110.60
26	BB	787	C	C4'-C3'-C2'	-7.43	95.17	102.60
26	BB	1149	G	N9-C1'-C2'	-7.43	103.83	112.00
26	BB	1789	A	O4'-C4'-C3'	7.43	112.04	106.10
26	BB	1831	G	N9-C4-C5	7.43	108.37	105.40
26	BB	2412	A	N9-C4-C5	-7.43	102.83	105.80
1	AA	877	G	N3-C4-C5	-7.42	124.89	128.60
1	AA	892	A	N9-C1'-C2'	-7.42	103.83	112.00
1	AA	1247	U	C4'-C3'-C2'	-7.42	95.17	102.60
1	AA	1288	A	O4'-C1'-N9	7.42	114.14	108.20
3	AC	18	A	C8-N9-C4	-7.42	102.83	105.80
26	BB	1517	G	N7-C8-N9	7.42	116.81	113.10
26	BB	2834	G	C8-N9-C4	-7.42	103.43	106.40
1	AA	337	G	C6-C5-N7	7.42	134.85	130.40
1	AA	1220	G	C6-N1-C2	-7.42	120.65	125.10
26	BB	664	G	N1-C2-N3	-7.42	119.45	123.90
1	AA	482	A	N1-C6-N6	-7.42	114.15	118.60
1	AA	494	G	C4-C5-N7	7.42	113.77	110.80
1	AA	1026	G	C3'-C2'-C1'	7.42	107.44	101.50
1	AA	1185	G	N3-C4-N9	7.42	130.45	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	252	G	C5-N7-C8	-7.42	100.59	104.30
26	BB	498	G	C4'-C3'-C2'	-7.42	95.18	102.60
26	BB	522	A	C4'-C3'-C2'	-7.42	95.18	102.60
26	BB	854	C	C4-C5-C6	7.42	121.11	117.40
26	BB	973	A	C5-N7-C8	-7.42	100.19	103.90
1	AA	601	G	N3-C4-N9	7.42	130.45	126.00
1	AA	1467	C	O4'-C1'-N1	7.42	114.14	108.20
1	AA	1504	G	N9-C4-C5	7.42	108.37	105.40
26	BB	753	A	C5'-C4'-O4'	7.42	118.00	109.10
26	BB	1425	G	C5-C6-N1	-7.42	107.79	111.50
26	BB	2308	G	C2-N3-C4	7.42	115.61	111.90
26	BB	2666	C	C5-C4-N4	-7.42	115.01	120.20
26	BB	2698	U	C2-N3-C4	-7.42	122.55	127.00
1	AA	282	A	N7-C8-N9	7.42	117.51	113.80
1	AA	530	G	N9-C4-C5	7.42	108.37	105.40
26	BB	163	C	O4'-C1'-N1	7.42	114.14	108.20
26	BB	180	G	C8-N9-C4	-7.42	103.43	106.40
26	BB	508	A	N1-C2-N3	-7.42	125.59	129.30
26	BB	1723	G	P-O3'-C3'	7.42	128.60	119.70
26	BB	2606	C	N3-C4-N4	7.42	123.19	118.00
26	BB	2825	G	N3-C4-C5	-7.42	124.89	128.60
1	AA	424	G	C5-C6-N1	7.42	115.21	111.50
1	AA	1311	A	N9-C4-C5	7.42	108.77	105.80
3	AC	22	G	C5-C6-O6	7.42	133.05	128.60
26	BB	1056	G	C6-C5-N7	-7.42	125.95	130.40
26	BB	1099	G	C6-C5-N7	-7.42	125.95	130.40
26	BB	1164	C	C4-C5-C6	7.42	121.11	117.40
26	BB	2512	C	C5-C4-N4	7.42	125.39	120.20
17	AQ	58	ARG	NE-CZ-NH2	-7.42	116.59	120.30
26	BB	640	C	N1-C2-O2	7.42	123.35	118.90
26	BB	1043	C	O4'-C1'-N1	7.42	114.13	108.20
26	BB	1644	C	N1-C2-O2	7.42	123.35	118.90
1	AA	414	A	N3-C4-C5	7.41	131.99	126.80
1	AA	1348	U	C2-N3-C4	-7.41	122.55	127.00
1	AA	1508	A	C2-N3-C4	7.41	114.31	110.60
2	AB	7	G	N3-C4-C5	-7.41	124.89	128.60
26	BB	777	G	N3-C4-C5	-7.41	124.89	128.60
26	BB	1407	G	N7-C8-N9	7.41	116.81	113.10
26	BB	1452	G	N1-C6-O6	-7.41	115.45	119.90
26	BB	1783	A	N7-C8-N9	-7.41	110.09	113.80
26	BB	1827	U	C5-C6-N1	-7.41	118.99	122.70
1	AA	450	G	N9-C4-C5	-7.41	102.44	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	522	C	N3-C4-C5	-7.41	118.94	121.90
26	BB	784	G	O4'-C1'-N9	7.41	114.13	108.20
26	BB	1451	C	N1-C2-O2	7.41	123.35	118.90
26	BB	1567	G	N7-C8-N9	7.41	116.81	113.10
26	BB	2488	G	C6-N1-C2	-7.41	120.65	125.10
1	AA	402	G	C4-C5-N7	7.41	113.76	110.80
1	AA	774	G	C5-N7-C8	-7.41	100.59	104.30
1	AA	1044	A	O4'-C1'-N9	7.41	114.13	108.20
1	AA	1139	G	C8-N9-C4	-7.41	103.44	106.40
1	AA	1531	A	C5-C6-N1	7.41	121.41	117.70
26	BB	1531	C	N3-C2-O2	-7.41	116.71	121.90
26	BB	1713	A	N9-C4-C5	7.41	108.76	105.80
26	BB	2325	G	N3-C4-C5	-7.41	124.89	128.60
26	BB	2475	C	C3'-C2'-C1'	7.41	107.43	101.50
1	AA	490	C	N3-C4-N4	7.41	123.19	118.00
1	AA	1338	G	N3-C4-C5	-7.41	124.89	128.60
15	AO	37	TYR	CA-CB-CG	7.41	127.48	113.40
26	BB	940	G	N1-C6-O6	7.41	124.34	119.90
26	BB	1260	A	C8-N9-C4	-7.41	102.84	105.80
26	BB	2832	U	N1-C2-N3	7.41	119.34	114.90
26	BB	2867	G	C5-C6-N1	7.41	115.20	111.50
1	AA	202	G	N9-C4-C5	-7.41	102.44	105.40
26	BB	1256	G	N7-C8-N9	7.41	116.80	113.10
1	AA	259	G	N9-C4-C5	7.41	108.36	105.40
1	AA	701	U	C5-C4-O4	-7.41	121.46	125.90
1	AA	866	C	C4-C5-C6	-7.41	113.70	117.40
1	AA	976	G	C4'-C3'-C2'	-7.41	95.19	102.60
1	AA	1010	U	N3-C4-C5	-7.41	110.16	114.60
1	AA	1376	U	C5-C4-O4	-7.41	121.46	125.90
1	AA	1426	G	C8-N9-C4	-7.41	103.44	106.40
3	AC	31	U	C2-N3-C4	-7.41	122.56	127.00
26	BB	393	C	C5-C4-N4	-7.41	115.02	120.20
26	BB	549	G	C4-C5-C6	-7.41	114.36	118.80
26	BB	1110	G	C2-N3-C4	7.41	115.60	111.90
26	BB	130	C	C5-C6-N1	7.40	124.70	121.00
26	BB	537	G	N3-C4-C5	-7.40	124.90	128.60
26	BB	728	G	C3'-C2'-C1'	-7.40	95.58	101.50
26	BB	1220	G	N9-C4-C5	7.40	108.36	105.40
1	AA	802	A	O4'-C4'-C3'	7.40	112.02	106.10
1	AA	949	A	C8-N9-C4	-7.40	102.84	105.80
1	AA	1020	G	N3-C4-N9	-7.40	121.56	126.00
1	AA	1034	G	N9-C4-C5	7.40	108.36	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1139	G	N3-C2-N2	-7.40	114.72	119.90
26	BB	1511	G	C5-C6-N1	7.40	115.20	111.50
1	AA	481	G	C1'-O4'-C4'	-7.40	103.98	109.90
1	AA	918	A	C3'-C2'-C1'	7.40	107.42	101.50
1	AA	1221	G	O3'-P-O5'	-7.40	89.94	104.00
1	AA	1267	C	N1-C2-O2	-7.40	114.46	118.90
26	BB	107	G	C4'-C3'-C2'	-7.40	95.20	102.60
26	BB	283	G	O4'-C1'-N9	7.40	114.12	108.20
26	BB	609	A	C5-N7-C8	-7.40	100.20	103.90
26	BB	820	A	C4-C5-N7	7.40	114.40	110.70
26	BB	1118	C	O4'-C1'-N1	7.40	114.12	108.20
26	BB	1524	G	C2-N3-C4	7.40	115.60	111.90
26	BB	1821	A	N1-C2-N3	7.40	133.00	129.30
26	BB	1854	A	N9-C4-C5	-7.40	102.84	105.80
26	BB	1886	U	O4'-C1'-N1	7.40	114.12	108.20
26	BB	1985	C	O4'-C1'-N1	7.40	114.12	108.20
26	BB	2100	G	N1-C2-N3	-7.40	119.46	123.90
1	AA	1038	C	C2-N3-C4	7.40	123.60	119.90
1	AA	1078	U	O4'-C1'-N1	7.40	114.12	108.20
1	AA	159	G	C5-N7-C8	7.40	108.00	104.30
1	AA	853	C	N3-C4-C5	-7.40	118.94	121.90
1	AA	1159	U	C4-C5-C6	7.40	124.14	119.70
25	BA	54	G	C8-N9-C4	-7.40	103.44	106.40
26	BB	307	G	N7-C8-N9	7.40	116.80	113.10
26	BB	1998	A	N1-C2-N3	7.40	133.00	129.30
26	BB	2158	A	C6-N1-C2	-7.40	114.16	118.60
1	AA	137	U	N3-C4-C5	-7.40	110.16	114.60
1	AA	536	C	C1'-O4'-C4'	7.40	115.82	109.90
1	AA	914	A	C5-C6-N1	7.40	121.40	117.70
4	AD	2	G	N9-C4-C5	7.40	108.36	105.40
26	BB	780	G	P-O3'-C3'	7.40	128.57	119.70
26	BB	1353	A	C6-N1-C2	-7.40	114.16	118.60
1	AA	104	G	C5-C6-O6	-7.39	124.16	128.60
1	AA	808	C	N1-C2-N3	-7.39	114.02	119.20
1	AA	1211	U	C2-N3-C4	-7.39	122.56	127.00
1	AA	1537	U	O4'-C1'-N1	7.39	114.11	108.20
26	BB	324	A	C6-C5-N7	7.39	137.48	132.30
26	BB	669	G	N3-C4-C5	-7.39	124.90	128.60
26	BB	729	G	C4'-C3'-C2'	-7.39	95.21	102.60
26	BB	741	U	N1-C2-N3	7.39	119.34	114.90
26	BB	987	C	C6-N1-C2	-7.39	117.34	120.30
26	BB	1388	G	C4'-C3'-C2'	7.39	109.99	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2262	U	C5'-C4'-O4'	7.39	117.97	109.10
26	BB	2466	C	N3-C2-O2	-7.39	116.72	121.90
1	AA	291	U	N3-C4-C5	-7.39	110.17	114.60
1	AA	410	G	C4-C5-N7	-7.39	107.84	110.80
1	AA	670	G	N1-C6-O6	-7.39	115.46	119.90
1	AA	845	A	C8-N9-C4	-7.39	102.84	105.80
1	AA	1262	C	N3-C2-O2	-7.39	116.72	121.90
25	BA	67	G	C5-C6-N1	7.39	115.20	111.50
26	BB	161	A	C5-N7-C8	7.39	107.60	103.90
26	BB	274	C	O4'-C1'-C2'	7.39	114.25	107.60
26	BB	319	G	C8-N9-C4	-7.39	103.44	106.40
26	BB	439	A	C2-N3-C4	7.39	114.30	110.60
26	BB	449	A	O5'-P-OP2	-7.39	99.05	105.70
26	BB	782	A	C5-C6-N6	7.39	129.61	123.70
26	BB	1014	A	N3-C4-C5	-7.39	121.62	126.80
26	BB	1232	G	C5-C6-O6	7.39	133.03	128.60
26	BB	1400	U	C6-N1-C2	-7.39	116.56	121.00
26	BB	1464	G	N1-C2-N3	7.39	128.34	123.90
26	BB	2231	U	C2-N3-C4	-7.39	122.56	127.00
1	AA	757	U	C5-C4-O4	7.39	130.33	125.90
26	BB	702	U	O4'-C1'-N1	7.39	114.11	108.20
1	AA	778	G	C5-N7-C8	-7.39	100.61	104.30
1	AA	1185	G	N3-C2-N2	-7.39	114.73	119.90
1	AA	1211	U	C1'-O4'-C4'	7.39	115.81	109.90
26	BB	1081	U	C6-N1-C2	-7.39	116.57	121.00
26	BB	1752	C	N3-C4-N4	-7.39	112.83	118.00
26	BB	2328	A	N1-C6-N6	7.39	123.03	118.60
26	BB	2525	G	C3'-C2'-C1'	7.39	107.41	101.50
1	AA	31	G	C4-C5-C6	7.39	123.23	118.80
26	BB	1124	G	O4'-C1'-N9	7.39	114.11	108.20
26	BB	2794	C	N3-C2-O2	-7.39	116.73	121.90
1	AA	19	A	C4-C5-C6	-7.39	113.31	117.00
1	AA	1347	G	N1-C2-N3	-7.39	119.47	123.90
4	AD	28	U	N3-C4-C5	-7.39	110.17	114.60
26	BB	5	A	C2-N3-C4	7.39	114.29	110.60
26	BB	952	G	N3-C4-C5	-7.39	124.91	128.60
26	BB	1167	C	C2-N3-C4	-7.39	116.21	119.90
26	BB	1364	G	P-O3'-C3'	7.39	128.56	119.70
26	BB	1540	G	C6-N1-C2	-7.39	120.67	125.10
1	AA	231	U	C5-C4-O4	-7.38	121.47	125.90
18	AR	88	ARG	NE-CZ-NH2	-7.38	116.61	120.30
26	BB	318	C	C2-N3-C4	-7.38	116.21	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1147	A	C6-N1-C2	-7.38	114.17	118.60
26	BB	1317	G	N7-C8-N9	7.38	116.79	113.10
26	BB	1717	A	C5-C6-N1	-7.38	114.01	117.70
26	BB	2238	G	C5-C6-N1	7.38	115.19	111.50
38	BN	41	ARG	NE-CZ-NH1	7.38	123.99	120.30
1	AA	126	G	N9-C4-C5	7.38	108.35	105.40
1	AA	1175	G	C6-N1-C2	-7.38	120.67	125.10
1	AA	1487	G	N1-C2-N3	-7.38	119.47	123.90
26	BB	434	U	N1-C2-O2	7.38	127.97	122.80
26	BB	1796	U	C6-N1-C2	7.38	125.43	121.00
26	BB	2263	C	C5-C6-N1	7.38	124.69	121.00
27	BC	134	ARG	NE-CZ-NH2	-7.38	116.61	120.30
1	AA	74	A	C5'-C4'-O4'	7.38	117.96	109.10
1	AA	621	A	C4-C5-C6	-7.38	113.31	117.00
1	AA	1356	G	C5-C6-O6	-7.38	124.17	128.60
26	BB	874	G	N7-C8-N9	7.38	116.79	113.10
26	BB	1419	A	N9-C4-C5	-7.38	102.85	105.80
26	BB	2727	A	C5-C6-N1	7.38	121.39	117.70
1	AA	6	G	O4'-C1'-N9	7.38	114.10	108.20
1	AA	439	U	C4-C5-C6	7.38	124.13	119.70
1	AA	1106	G	C2-N3-C4	7.38	115.59	111.90
7	AG	103	ARG	NE-CZ-NH2	-7.38	116.61	120.30
26	BB	388	G	N1-C6-O6	-7.38	115.47	119.90
26	BB	606	U	N1-C2-O2	7.38	127.97	122.80
26	BB	1650	A	C3'-C2'-C1'	7.38	107.40	101.50
26	BB	1673	G	P-O3'-C3'	7.38	128.56	119.70
26	BB	2018	G	C2-N3-C4	7.38	115.59	111.90
26	BB	2071	A	O4'-C1'-N9	7.38	114.10	108.20
1	AA	43	C	C1'-O4'-C4'	7.38	115.80	109.90
1	AA	442	G	N9-C4-C5	7.38	108.35	105.40
1	AA	1331	G	C5-N7-C8	-7.38	100.61	104.30
12	AL	5	TYR	CB-CG-CD2	-7.38	116.57	121.00
26	BB	970	U	N3-C2-O2	-7.38	117.03	122.20
26	BB	1557	C	C5-C6-N1	7.38	124.69	121.00
1	AA	106	C	O4'-C1'-N1	7.38	114.10	108.20
1	AA	305	G	N3-C4-N9	7.38	130.43	126.00
1	AA	1272	G	C5-N7-C8	-7.38	100.61	104.30
3	AC	53	G	C6-N1-C2	7.38	129.53	125.10
25	BA	86	G	N9-C4-C5	7.38	108.35	105.40
26	BB	644	A	C5'-C4'-C3'	-7.38	104.20	116.00
26	BB	767	U	O4'-C1'-N1	7.38	114.10	108.20
26	BB	1274	A	C8-N9-C4	-7.38	102.85	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1469	A	C8-N9-C4	-7.38	102.85	105.80
26	BB	1568	G	C2-N3-C4	7.38	115.59	111.90
26	BB	2209	G	C2-N3-C4	7.38	115.59	111.90
26	BB	2448	A	N3-C4-N9	7.38	133.30	127.40
26	BB	697	G	O4'-C1'-N9	7.38	114.10	108.20
26	BB	711	G	C4-C5-C6	7.38	123.22	118.80
26	BB	1080	A	C5-C6-N1	-7.38	114.01	117.70
26	BB	1089	A	C6-N1-C2	7.38	123.03	118.60
26	BB	2136	G	C1'-O4'-C4'	-7.38	104.00	109.90
1	AA	343	U	N3-C4-O4	7.37	124.56	119.40
1	AA	470	C	N3-C4-N4	7.37	123.16	118.00
1	AA	904	U	C4-C5-C6	7.37	124.12	119.70
2	AB	59	G	C5-C6-N1	7.37	115.19	111.50
23	AW	23	ARG	NH1-CZ-NH2	-7.37	111.29	119.40
26	BB	975	A	C2-N3-C4	-7.37	106.91	110.60
26	BB	1567	G	C4-C5-C6	7.37	123.22	118.80
26	BB	1707	G	N3-C4-C5	-7.37	124.91	128.60
1	AA	404	G	C2-N3-C4	7.37	115.59	111.90
1	AA	542	G	C6-N1-C2	-7.37	120.68	125.10
1	AA	1318	A	C1'-O4'-C4'	7.37	115.80	109.90
1	AA	1331	G	C4-C5-N7	7.37	113.75	110.80
1	AA	1347	G	N1-C6-O6	-7.37	115.48	119.90
26	BB	239	C	N3-C4-C5	-7.37	118.95	121.90
26	BB	1229	C	N1-C2-O2	7.37	123.32	118.90
26	BB	1235	G	N3-C4-N9	7.37	130.42	126.00
1	AA	1191	A	C2-N3-C4	7.37	114.28	110.60
26	BB	1200	C	C5'-C4'-O4'	7.37	117.94	109.10
1	AA	180	U	O5'-C5'-C4'	7.37	125.70	111.70
1	AA	646	G	C1'-O4'-C4'	7.37	115.80	109.90
1	AA	1310	G	N1-C6-O6	-7.37	115.48	119.90
1	AA	1363	A	N9-C4-C5	7.37	108.75	105.80
1	AA	1422	G	C4-C5-N7	-7.37	107.85	110.80
3	AC	28	U	O4'-C1'-N1	7.37	114.09	108.20
26	BB	274	C	N3-C2-O2	-7.37	116.74	121.90
26	BB	567	U	C5-C4-O4	7.37	130.32	125.90
26	BB	578	G	N9-C4-C5	7.37	108.35	105.40
26	BB	1025	G	O4'-C1'-N9	7.37	114.09	108.20
26	BB	1305	C	O4'-C1'-N1	7.37	114.09	108.20
26	BB	1448	G	O4'-C1'-N9	7.37	114.09	108.20
26	BB	1736	U	C6-N1-C2	-7.37	116.58	121.00
26	BB	2639	A	O4'-C1'-N9	7.37	114.09	108.20
26	BB	2872	A	C4'-C3'-C2'	-7.37	95.23	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
51	B0	52	ARG	NE-CZ-NH2	7.37	123.98	120.30
26	BB	58	G	N3-C4-C5	-7.37	124.92	128.60
26	BB	261	G	O4'-C1'-N9	7.37	114.09	108.20
26	BB	1561	C	O4'-C1'-N1	7.37	114.09	108.20
1	AA	259	G	O4'-C1'-N9	7.37	114.09	108.20
1	AA	526	C	C4'-C3'-C2'	-7.37	95.23	102.60
1	AA	711	G	C3'-C2'-C1'	-7.37	95.61	101.50
1	AA	1221	G	N3-C4-N9	7.37	130.42	126.00
26	BB	1305	C	N3-C2-O2	-7.37	116.74	121.90
26	BB	2204	G	N1-C6-O6	7.37	124.32	119.90
26	BB	2642	G	N3-C2-N2	-7.37	114.75	119.90
1	AA	232	G	C6-N1-C2	-7.36	120.68	125.10
1	AA	238	A	N3-C4-N9	7.36	133.29	127.40
1	AA	1417	G	C2-N3-C4	7.36	115.58	111.90
2	AB	47	U	O3'-P-O5'	-7.36	90.01	104.00
3	AC	36	U	C5-C6-N1	-7.36	119.02	122.70
26	BB	4	U	O4'-C1'-N1	7.36	114.09	108.20
26	BB	400	G	C5-C6-N1	7.36	115.18	111.50
26	BB	523	C	N1-C1'-C2'	-7.36	103.90	112.00
26	BB	1015	U	C5-C4-O4	-7.36	121.48	125.90
26	BB	1097	U	N3-C2-O2	-7.36	117.05	122.20
26	BB	1514	G	C3'-C2'-C1'	7.36	107.39	101.50
26	BB	1517	G	N3-C4-C5	-7.36	124.92	128.60
26	BB	2560	A	C8-N9-C4	-7.36	102.85	105.80
26	BB	2629	U	C5'-C4'-O4'	7.36	117.94	109.10
26	BB	2706	A	C4-C5-C6	7.36	120.68	117.00
1	AA	752	G	C6-N1-C2	-7.36	120.68	125.10
1	AA	855	U	C1'-O4'-C4'	-7.36	104.01	109.90
1	AA	924	C	C2-N3-C4	-7.36	116.22	119.90
1	AA	1016	A	C5-C6-N1	7.36	121.38	117.70
26	BB	337	C	C6-N1-C2	-7.36	117.36	120.30
26	BB	1258	U	N1-C2-N3	7.36	119.32	114.90
26	BB	1483	G	C2-N3-C4	7.36	115.58	111.90
26	BB	1752	C	C1'-O4'-C4'	7.36	115.79	109.90
26	BB	2500	U	C4-C5-C6	-7.36	115.28	119.70
1	AA	286	C	C5-C6-N1	7.36	124.68	121.00
1	AA	464	U	C1'-O4'-C4'	-7.36	104.01	109.90
1	AA	488	C	C5-C4-N4	7.36	125.35	120.20
1	AA	1355	G	N1-C6-O6	-7.36	115.48	119.90
1	AA	1473	G	N1-C2-N3	-7.36	119.48	123.90
26	BB	46	G	N9-C1'-C2'	-7.36	103.90	112.00
26	BB	539	G	N9-C1'-C2'	-7.36	103.90	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1206	G	C8-N9-C4	-7.36	103.46	106.40
26	BB	2572	A	N7-C8-N9	7.36	117.48	113.80
26	BB	2727	A	C6-C5-N7	7.36	137.45	132.30
26	BB	325	G	C4'-C3'-C2'	-7.36	95.24	102.60
26	BB	2204	G	C2-N3-C4	7.36	115.58	111.90
26	BB	2279	G	N1-C2-N2	7.36	122.82	116.20
26	BB	2299	U	C4-C5-C6	7.36	124.11	119.70
1	AA	300	A	C8-N9-C4	-7.36	102.86	105.80
1	AA	677	U	C5-C6-N1	-7.36	119.02	122.70
1	AA	1260	G	N9-C4-C5	-7.36	102.46	105.40
1	AA	1269	A	C4-C5-C6	-7.36	113.32	117.00
25	BA	94	A	C6-C5-N7	7.36	137.45	132.30
26	BB	349	U	C5-C6-N1	-7.36	119.02	122.70
26	BB	423	A	C4-C5-C6	-7.36	113.32	117.00
26	BB	2327	A	N1-C6-N6	-7.36	114.19	118.60
26	BB	2465	C	C4-C5-C6	7.36	121.08	117.40
26	BB	2820	A	N9-C4-C5	7.36	108.74	105.80
1	AA	698	G	C4-C5-C6	7.36	123.21	118.80
1	AA	780	A	C1'-O4'-C4'	7.36	115.78	109.90
1	AA	1126	U	C5-C4-O4	-7.36	121.49	125.90
1	AA	1127	G	O4'-C1'-N9	7.36	114.08	108.20
15	AO	120	ARG	CD-NE-CZ	7.36	133.90	123.60
25	BA	8	C	N3-C4-C5	-7.36	118.96	121.90
25	BA	26	C	C3'-C2'-C1'	-7.36	95.61	101.50
26	BB	430	A	N9-C4-C5	7.36	108.74	105.80
26	BB	695	G	N9-C4-C5	7.36	108.34	105.40
26	BB	2057	G	C8-N9-C4	-7.36	103.46	106.40
26	BB	2855	C	C5-C4-N4	7.36	125.35	120.20
1	AA	179	A	C4'-C3'-C2'	7.35	109.95	102.60
1	AA	1079	G	N1-C6-O6	-7.35	115.49	119.90
1	AA	53	A	C2'-C3'-O3'	7.35	125.68	109.50
1	AA	1209	C	C4-C5-C6	7.35	121.08	117.40
26	BB	625	G	N7-C8-N9	7.35	116.78	113.10
26	BB	1084	A	C2-N3-C4	-7.35	106.92	110.60
26	BB	2112	G	O4'-C1'-C2'	7.35	114.22	107.60
49	BY	14	ASP	CB-CG-OD2	-7.35	111.68	118.30
1	AA	307	C	N3-C4-C5	-7.35	118.96	121.90
26	BB	1234	U	N3-C2-O2	-7.35	117.06	122.20
1	AA	17	U	O4'-C1'-N1	7.35	114.08	108.20
1	AA	188	C	N1-C1'-C2'	-7.35	103.92	112.00
1	AA	617	G	C8-N9-C4	-7.35	103.46	106.40
1	AA	951	G	C4-C5-C6	7.35	123.21	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1416	G	N7-C8-N9	7.35	116.78	113.10
25	BA	64	G	C8-N9-C4	-7.35	103.46	106.40
26	BB	96	C	C4-C5-C6	7.35	121.08	117.40
26	BB	158	U	C3'-C2'-C1'	7.35	107.38	101.50
26	BB	307	G	C4-C5-N7	-7.35	107.86	110.80
26	BB	380	G	N7-C8-N9	7.35	116.78	113.10
26	BB	774	G	C5-C6-O6	7.35	133.01	128.60
26	BB	969	G	N1-C2-N3	-7.35	119.49	123.90
26	BB	1617	C	C4-C5-C6	-7.35	113.72	117.40
26	BB	1814	G	C4-C5-N7	-7.35	107.86	110.80
26	BB	2298	A	C4-C5-C6	7.35	120.67	117.00
26	BB	2381	A	O4'-C1'-N9	7.35	114.08	108.20
1	AA	1261	A	C4-C5-N7	7.35	114.37	110.70
26	BB	506	G	C8-N9-C4	-7.35	103.46	106.40
26	BB	1545	A	C2-N3-C4	7.35	114.27	110.60
26	BB	2003	A	C5-C6-N1	7.35	121.37	117.70
26	BB	2820	A	O4'-C1'-N9	7.35	114.08	108.20
26	BB	2867	G	N9-C4-C5	7.35	108.34	105.40
28	BD	12	ARG	NE-CZ-NH2	7.35	123.97	120.30
1	AA	861	G	C1'-O4'-C4'	7.35	115.78	109.90
1	AA	871	U	N1-C2-N3	7.35	119.31	114.90
26	BB	1100	C	O4'-C1'-N1	7.35	114.08	108.20
26	BB	1834	U	C4-C5-C6	7.35	124.11	119.70
1	AA	242	G	C2-N3-C4	7.34	115.57	111.90
1	AA	321	A	C2-N3-C4	-7.34	106.93	110.60
1	AA	829	G	C8-N9-C4	-7.34	103.46	106.40
1	AA	1287	A	C4-C5-N7	-7.34	107.03	110.70
25	BA	54	G	C5-C6-N1	7.34	115.17	111.50
26	BB	1110	G	N3-C4-C5	-7.34	124.93	128.60
26	BB	1238	G	C6-C5-N7	-7.34	125.99	130.40
26	BB	1477	A	C8-N9-C4	-7.34	102.86	105.80
26	BB	1840	G	N3-C4-C5	-7.34	124.93	128.60
26	BB	2010	G	C5'-C4'-O4'	7.34	117.91	109.10
26	BB	2359	C	O4'-C1'-N1	7.34	114.08	108.20
1	AA	1076	U	C4'-C3'-C2'	-7.34	95.26	102.60
1	AA	1314	C	C5'-C4'-O4'	7.34	117.91	109.10
25	BA	109	A	P-O3'-C3'	7.34	128.51	119.70
26	BB	2350	C	C6-N1-C2	-7.34	117.36	120.30
26	BB	2626	C	C4'-C3'-C2'	-7.34	95.26	102.60
26	BB	2821	A	O4'-C1'-N9	7.34	114.07	108.20
1	AA	527	7MG	P-O3'-C3'	7.34	128.51	119.70
1	AA	945	G	C5-C6-O6	-7.34	124.19	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	AQ	74	ARG	NE-CZ-NH1	7.34	123.97	120.30
26	BB	923	G	N1-C6-O6	7.34	124.31	119.90
26	BB	1639	C	N3-C4-N4	7.34	123.14	118.00
26	BB	1844	C	C4'-C3'-C2'	7.34	109.94	102.60
26	BB	2724	U	N1-C2-O2	7.34	127.94	122.80
26	BB	2823	A	C1'-O4'-C4'	-7.34	104.03	109.90
1	AA	1141	C	C4-C5-C6	-7.34	113.73	117.40
25	BA	102	G	O4'-C4'-C3'	7.34	111.97	106.10
26	BB	1193	G	N9-C4-C5	7.34	108.34	105.40
26	BB	1218	G	O4'-C1'-N9	7.34	114.07	108.20
26	BB	2132	U	N3-C2-O2	-7.34	117.06	122.20
26	BB	2461	A	C5-C6-N1	-7.34	114.03	117.70
1	AA	757	U	N3-C4-C5	-7.34	110.20	114.60
1	AA	1322	C	O4'-C1'-N1	7.34	114.07	108.20
26	BB	1138	G	C4-C5-C6	-7.34	114.40	118.80
26	BB	1739	A	C8-N9-C4	-7.34	102.86	105.80
26	BB	1991	U	N3-C4-O4	-7.34	114.26	119.40
26	BB	2154	A	N7-C8-N9	-7.34	110.13	113.80
1	AA	240	G	C6-N1-C2	-7.34	120.70	125.10
1	AA	508	U	C5-C6-N1	-7.34	119.03	122.70
1	AA	690	G	C6-C5-N7	-7.34	126.00	130.40
1	AA	1070	U	N1-C2-N3	7.34	119.30	114.90
1	AA	1340	A	C5'-C4'-C3'	-7.34	104.26	116.00
26	BB	271	G	C6-N1-C2	-7.34	120.70	125.10
26	BB	378	C	C6-N1-C2	-7.34	117.37	120.30
26	BB	918	A	C5-C6-N1	-7.34	114.03	117.70
26	BB	929	U	N1-C2-N3	7.34	119.30	114.90
26	BB	1236	G	N3-C2-N2	7.34	125.03	119.90
26	BB	1796	U	O4'-C1'-N1	7.34	114.07	108.20
1	AA	254	G	N3-C4-N9	7.33	130.40	126.00
1	AA	402	G	N1-C2-N3	-7.33	119.50	123.90
1	AA	1474	U	C5-C4-O4	-7.33	121.50	125.90
26	BB	1769	U	N1-C1'-C2'	-7.33	103.93	112.00
1	AA	1156	G	N3-C4-C5	-7.33	124.93	128.60
1	AA	1475	G	N1-C2-N2	7.33	122.80	116.20
26	BB	137	U	O4'-C1'-N1	7.33	114.07	108.20
26	BB	395	U	N3-C4-O4	-7.33	114.27	119.40
26	BB	602	A	N3-C4-N9	7.33	133.27	127.40
26	BB	938	G	N1-C2-N2	7.33	122.80	116.20
26	BB	1227	G	C6-N1-C2	-7.33	120.70	125.10
26	BB	1234	U	N1-C2-N3	7.33	119.30	114.90
26	BB	1513	U	N3-C4-O4	7.33	124.53	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1824	G	C4-C5-N7	7.33	113.73	110.80
26	BB	2298	A	C6-N1-C2	-7.33	114.20	118.60
26	BB	2640	G	C4'-C3'-C2'	-7.33	95.27	102.60
1	AA	1440	U	N1-C2-N3	7.33	119.30	114.90
26	BB	318	C	N3-C4-N4	7.33	123.13	118.00
26	BB	1006	C	C2-N3-C4	7.33	123.56	119.90
26	BB	1164	C	C1'-O4'-C4'	-7.33	104.03	109.90
26	BB	1431	A	C4'-C3'-C2'	-7.33	95.27	102.60
26	BB	1782	U	O4'-C4'-C3'	7.33	111.97	106.10
26	BB	1804	C	C5-C4-N4	-7.33	115.07	120.20
26	BB	2002	G	C5-C6-O6	-7.33	124.20	128.60
26	BB	2423	U	C1'-O4'-C4'	-7.33	104.03	109.90
26	BB	2627	G	C6-C5-N7	-7.33	126.00	130.40
1	AA	1030	U	O4'-C1'-N1	7.33	114.06	108.20
1	AA	1395	C	N1-C1'-C2'	-7.33	103.94	112.00
26	BB	1388	G	C4-C5-N7	7.33	113.73	110.80
26	BB	2844	G	N9-C4-C5	7.33	108.33	105.40
1	AA	848	C	C5'-C4'-C3'	-7.33	104.28	116.00
1	AA	995	C	C1'-O4'-C4'	-7.33	104.04	109.90
1	AA	1362	A	C8-N9-C4	-7.33	102.87	105.80
25	BA	25	U	C5-C6-N1	7.33	126.36	122.70
26	BB	321	U	N3-C4-O4	7.33	124.53	119.40
26	BB	1153	C	N3-C2-O2	-7.33	116.77	121.90
26	BB	1218	G	N9-C4-C5	7.33	108.33	105.40
26	BB	1339	G	C5'-C4'-O4'	7.33	117.89	109.10
26	BB	1755	A	C5-C6-N6	-7.33	117.84	123.70
26	BB	1873	G	N1-C6-O6	7.33	124.30	119.90
26	BB	1979	U	C5-C6-N1	-7.33	119.04	122.70
26	BB	2316	G	O4'-C1'-N9	7.33	114.06	108.20
26	BB	2531	A	C3'-C2'-C1'	7.33	107.36	101.50
40	BP	8	ARG	NE-CZ-NH2	-7.33	116.64	120.30
1	AA	2	A	C6-N1-C2	7.33	123.00	118.60
26	BB	396	G	C2-N3-C4	7.33	115.56	111.90
26	BB	939	G	O4'-C1'-N9	7.33	114.06	108.20
26	BB	1738	G	C3'-C2'-C1'	7.33	107.36	101.50
26	BB	1977	A	N1-C2-N3	-7.33	125.64	129.30
26	BB	2396	G	C5-C6-N1	7.33	115.16	111.50
26	BB	2694	G	N1-C6-O6	-7.33	115.50	119.90
1	AA	532	A	O4'-C1'-N9	7.33	114.06	108.20
1	AA	561	U	C3'-C2'-C1'	7.33	107.36	101.50
26	BB	639	U	N3-C2-O2	7.33	127.33	122.20
26	BB	751	A	N9-C4-C5	7.33	108.73	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	820	A	C5'-C4'-O4'	7.33	117.89	109.10
26	BB	1808	A	C5-C6-N1	7.33	121.36	117.70
26	BB	1838	C	N3-C2-O2	-7.33	116.77	121.90
26	BB	2385	C	C1'-O4'-C4'	-7.33	104.04	109.90
1	AA	490	C	N3-C2-O2	-7.32	116.77	121.90
1	AA	1239	A	C5-N7-C8	7.32	107.56	103.90
1	AA	1344	C	N3-C4-N4	7.32	123.13	118.00
26	BB	278	A	C6-N1-C2	7.32	122.99	118.60
26	BB	1037	G	N3-C4-N9	7.32	130.39	126.00
26	BB	1564	C	N3-C4-N4	-7.32	112.87	118.00
36	BL	69	ARG	NE-CZ-NH2	-7.32	116.64	120.30
1	AA	781	A	N9-C1'-C2'	-7.32	103.95	112.00
1	AA	1052	U	O4'-C1'-N1	7.32	114.06	108.20
26	BB	251	A	N1-C6-N6	7.32	122.99	118.60
1	AA	321	A	C4'-C3'-C2'	-7.32	95.28	102.60
1	AA	739	C	C5-C4-N4	-7.32	115.08	120.20
1	AA	1436	U	P-O3'-C3'	7.32	128.48	119.70
18	AR	68	TYR	CG-CD1-CE1	7.32	127.16	121.30
26	BB	631	A	C4'-C3'-C2'	-7.32	95.28	102.60
26	BB	1559	U	O4'-C4'-C3'	7.32	111.96	106.10
26	BB	1680	U	C5-C6-N1	7.32	126.36	122.70
26	BB	2863	C	N1-C2-O2	7.32	123.29	118.90
3	AC	46	C	O4'-C1'-N1	7.32	114.06	108.20
26	BB	100	U	N1-C2-N3	-7.32	110.51	114.90
26	BB	1880	U	C6-N1-C2	-7.32	116.61	121.00
1	AA	1140	C	C4'-C3'-C2'	-7.32	95.28	102.60
2	AB	44	G	N1-C6-O6	7.32	124.29	119.90
26	BB	19	A	N9-C4-C5	-7.32	102.87	105.80
26	BB	123	G	C4-C5-N7	-7.32	107.87	110.80
26	BB	583	G	C5-C6-O6	-7.32	124.21	128.60
26	BB	654	A	N7-C8-N9	-7.32	110.14	113.80
26	BB	1072	C	C4-C5-C6	-7.32	113.74	117.40
26	BB	1429	G	N1-C2-N2	7.32	122.78	116.20
1	AA	420	U	C2'-C3'-O3'	7.32	125.59	109.50
1	AA	768	A	C4-C5-C6	-7.32	113.34	117.00
1	AA	1525	G	C1'-O4'-C4'	7.32	115.75	109.90
26	BB	1717	A	N1-C6-N6	7.32	122.99	118.60
26	BB	2253	G	C2-N3-C4	7.32	115.56	111.90
26	BB	2658	C	N3-C4-C5	-7.32	118.97	121.90
36	BL	44	TYR	CB-CG-CD2	-7.32	116.61	121.00
1	AA	86	G	C5-C6-N1	-7.31	107.84	111.50
1	AA	1083	U	C4-C5-C6	7.31	124.09	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2655	G	C8-N9-C4	-7.31	103.47	106.40
1	AA	652	U	N3-C2-O2	-7.31	117.08	122.20
26	BB	486	C	C6-N1-C2	-7.31	117.38	120.30
26	BB	2439	A	N7-C8-N9	-7.31	110.14	113.80
26	BB	2522	U	O4'-C1'-N1	7.31	114.05	108.20
26	BB	2887	A	N9-C4-C5	7.31	108.72	105.80
1	AA	719	C	O4'-C1'-N1	7.31	114.05	108.20
1	AA	833	G	N9-C4-C5	7.31	108.32	105.40
26	BB	1001	A	C5-C6-N6	-7.31	117.85	123.70
1	AA	458	U	C5-C6-N1	-7.31	119.05	122.70
1	AA	1494	G	N1-C2-N3	7.31	128.29	123.90
26	BB	350	G	C6-N1-C2	-7.31	120.71	125.10
26	BB	1199	U	C2-N3-C4	-7.31	122.61	127.00
26	BB	1303	G	C4-C5-N7	-7.31	107.88	110.80
26	BB	1564	C	C5-C4-N4	7.31	125.32	120.20
26	BB	1703	G	C8-N9-C4	-7.31	103.48	106.40
26	BB	2073	C	N3-C4-N4	7.31	123.12	118.00
2	AB	64	U	C4-C5-C6	7.31	124.08	119.70
8	AH	127	TYR	CB-CG-CD1	7.31	125.38	121.00
26	BB	242	G	P-O3'-C3'	7.31	128.47	119.70
26	BB	331	C	C4-C5-C6	-7.31	113.75	117.40
26	BB	350	G	N3-C4-C5	-7.31	124.95	128.60
26	BB	1079	C	N1-C2-N3	-7.31	114.08	119.20
26	BB	1772	A	N9-C4-C5	7.31	108.72	105.80
26	BB	1964	G	C5-C6-N1	-7.31	107.85	111.50
26	BB	2041	U	C5'-C4'-O4'	7.31	117.87	109.10
26	BB	2483	C	C4-C5-C6	-7.31	113.75	117.40
26	BB	2591	C	N3-C2-O2	-7.31	116.78	121.90
56	B5	39	ARG	NE-CZ-NH2	-7.31	116.65	120.30
1	AA	128	G	P-O3'-C3'	7.31	128.47	119.70
1	AA	1127	G	N1-C6-O6	7.31	124.28	119.90
26	BB	447	A	C5-C6-N6	7.31	129.54	123.70
26	BB	2685	G	C3'-C2'-C1'	-7.31	95.66	101.50
1	AA	1305	G	C8-N9-C4	-7.30	103.48	106.40
4	AD	20	G	C1'-O4'-C4'	-7.30	104.06	109.90
26	BB	899	A	N7-C8-N9	7.30	117.45	113.80
26	BB	1732	C	N3-C4-N4	7.30	123.11	118.00
26	BB	2316	G	N1-C2-N3	-7.30	119.52	123.90
26	BB	2426	A	C4-C5-C6	-7.30	113.35	117.00
26	BB	2852	G	N9-C4-C5	7.30	108.32	105.40
41	BQ	103	VAL	CA-CB-CG2	7.30	121.86	110.90
1	AA	7	A	N3-C4-C5	7.30	131.91	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	301	G	N1-C6-O6	-7.30	115.52	119.90
26	BB	864	G	C4-C5-N7	-7.30	107.88	110.80
38	BN	123	ARG	NE-CZ-NH1	7.30	123.95	120.30
1	AA	44	A	N1-C6-N6	7.30	122.98	118.60
1	AA	764	C	C4-C5-C6	7.30	121.05	117.40
1	AA	823	C	N1-C2-O2	7.30	123.28	118.90
1	AA	1152	A	C2-N3-C4	-7.30	106.95	110.60
24	AX	32	ARG	NE-CZ-NH1	7.30	123.95	120.30
26	BB	21	A	N1-C2-N3	-7.30	125.65	129.30
26	BB	493	G	C4-C5-C6	7.30	123.18	118.80
26	BB	851	C	N1-C2-N3	7.30	124.31	119.20
26	BB	951	C	N3-C2-O2	-7.30	116.79	121.90
26	BB	1061	U	C3'-C2'-C1'	7.30	107.34	101.50
26	BB	1279	G	N9-C1'-C2'	-7.30	103.97	112.00
26	BB	1859	U	O4'-C1'-N1	7.30	114.04	108.20
26	BB	2278	A	C5-N7-C8	7.30	107.55	103.90
1	AA	1142	G	C6-N1-C2	-7.30	120.72	125.10
1	AA	1321	U	C4-C5-C6	7.30	124.08	119.70
26	BB	131	A	C5'-C4'-O4'	7.30	117.86	109.10
26	BB	899	A	N9-C4-C5	7.30	108.72	105.80
26	BB	1333	G	C5-N7-C8	-7.30	100.65	104.30
26	BB	2007	U	O4'-C1'-N1	7.30	114.04	108.20
26	BB	2277	G	C5-C6-N1	7.30	115.15	111.50
26	BB	2355	G	C8-N9-C4	-7.30	103.48	106.40
1	AA	458	U	C2-N3-C4	-7.30	122.62	127.00
25	BA	26	C	C4-C5-C6	-7.30	113.75	117.40
26	BB	1592	C	N3-C4-C5	7.30	124.82	121.90
26	BB	2173	A	C5'-C4'-C3'	-7.30	104.32	116.00
26	BB	2266	A	C3'-C2'-C1'	7.30	107.34	101.50
26	BB	2588	G	C5-C6-O6	7.30	132.98	128.60
26	BB	2818	U	C4'-C3'-C2'	-7.30	95.30	102.60
1	AA	404	G	C6-N1-C2	-7.30	120.72	125.10
1	AA	526	C	C5-C6-N1	7.30	124.65	121.00
2	AB	11	U	O4'-C1'-N1	7.30	114.04	108.20
26	BB	209	C	C2-N3-C4	7.30	123.55	119.90
26	BB	594	U	C4-C5-C6	-7.30	115.32	119.70
26	BB	724	U	O4'-C1'-N1	7.30	114.04	108.20
26	BB	987	C	O4'-C1'-N1	7.30	114.04	108.20
26	BB	1269	A	N7-C8-N9	7.30	117.45	113.80
26	BB	1739	A	C6-C5-N7	7.30	137.41	132.30
26	BB	2188	U	N1-C2-O2	7.30	127.91	122.80
38	BN	21	ARG	NE-CZ-NH1	7.30	123.95	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1	A	O4'-C1'-N9	7.29	114.04	108.20
1	AA	210	C	N3-C4-N4	7.29	123.11	118.00
1	AA	581	G	C4-C5-N7	-7.29	107.88	110.80
26	BB	400	G	C8-N9-C4	-7.29	103.48	106.40
26	BB	654	A	O4'-C1'-N9	7.29	114.04	108.20
1	AA	63	C	N1-C2-N3	7.29	124.31	119.20
1	AA	393	A	C3'-C2'-C1'	7.29	107.34	101.50
1	AA	569	C	C4-C5-C6	7.29	121.05	117.40
26	BB	1409	U	O4'-C1'-N1	7.29	114.03	108.20
1	AA	57	G	N3-C4-C5	-7.29	124.95	128.60
1	AA	523	A	C6-N1-C2	7.29	122.97	118.60
1	AA	1399	C	C4-C5-C6	-7.29	113.75	117.40
2	AB	76	A	N1-C6-N6	7.29	122.97	118.60
26	BB	512	G	C2-N3-C4	7.29	115.55	111.90
26	BB	2394	C	C2-N3-C4	7.29	123.55	119.90
26	BB	2588	G	N1-C6-O6	-7.29	115.53	119.90
26	BB	2661	G	O4'-C4'-C3'	7.29	111.93	106.10
26	BB	2353	G	C3'-C2'-C1'	-7.29	95.67	101.50
26	BB	2750	A	N9-C4-C5	7.29	108.72	105.80
1	AA	643	C	P-O3'-C3'	7.29	128.44	119.70
1	AA	1045	C	O4'-C4'-C3'	-7.29	96.71	104.00
1	AA	1366	C	N3-C2-O2	-7.29	116.80	121.90
26	BB	1389	G	C2-N3-C4	7.29	115.54	111.90
26	BB	1460	U	O4'-C1'-N1	7.29	114.03	108.20
26	BB	2682	A	O4'-C4'-C3'	7.29	111.93	106.10
26	BB	2885	G	P-O3'-C3'	7.29	128.45	119.70
1	AA	1049	U	N3-C4-O4	7.29	124.50	119.40
3	AC	14	G	N3-C4-N9	7.29	130.37	126.00
6	AF	53	ARG	NE-CZ-NH2	7.29	123.94	120.30
25	BA	111	U	O4'-C1'-N1	7.29	114.03	108.20
26	BB	1027	A	C8-N9-C4	-7.29	102.89	105.80
40	BP	22	ARG	NE-CZ-NH1	7.29	123.94	120.30
1	AA	557	G	N9-C1'-C2'	-7.29	103.99	112.00
1	AA	676	A	C4-C5-N7	-7.29	107.06	110.70
26	BB	726	G	C4-C5-N7	-7.29	107.89	110.80
26	BB	730	A	C8-N9-C4	-7.29	102.89	105.80
26	BB	1227	G	C8-N9-C4	-7.29	103.49	106.40
26	BB	1890	A	C4-C5-N7	-7.29	107.06	110.70
26	BB	2073	C	N1-C1'-C2'	-7.29	103.98	112.00
26	BB	2533	U	C4-C5-C6	7.29	124.07	119.70
26	BB	2741	A	C5-C6-N6	-7.29	117.87	123.70
1	AA	349	A	C5-C6-N1	7.28	121.34	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	782	A	C4'-C3'-C2'	-7.28	95.32	102.60
1	AA	931	C	O4'-C1'-N1	7.28	114.03	108.20
26	BB	467	G	N3-C2-N2	7.28	125.00	119.90
26	BB	969	G	C8-N9-C4	-7.28	103.49	106.40
26	BB	1558	C	C2-N3-C4	7.28	123.54	119.90
26	BB	1607	C	C5'-C4'-O4'	7.28	117.84	109.10
26	BB	2663	G	N3-C4-N9	7.28	130.37	126.00
25	BA	93	C	N3-C4-C5	7.28	124.81	121.90
26	BB	789	A	C5'-C4'-C3'	-7.28	104.35	116.00
26	BB	1386	C	C1'-O4'-C4'	-7.28	104.07	109.90
26	BB	1983	G	C8-N9-C4	-7.28	103.49	106.40
26	BB	2603	G	P-O3'-C3'	7.28	128.44	119.70
26	BB	2826	A	C6-C5-N7	7.28	137.40	132.30
1	AA	59	A	N3-C4-C5	-7.28	121.70	126.80
1	AA	107	G	N9-C4-C5	7.28	108.31	105.40
1	AA	1283	U	C4-C5-C6	7.28	124.07	119.70
1	AA	1323	G	C4'-C3'-C2'	-7.28	95.32	102.60
25	BA	6	G	C4-C5-C6	7.28	123.17	118.80
25	BA	82	U	N3-C2-O2	-7.28	117.10	122.20
26	BB	637	A	N7-C8-N9	-7.28	110.16	113.80
26	BB	761	A	C1'-O4'-C4'	7.28	115.72	109.90
26	BB	1056	G	C1'-O4'-C4'	7.28	115.72	109.90
26	BB	1895	C	N3-C4-C5	7.28	124.81	121.90
26	BB	2333	A	P-O3'-C3'	7.28	128.44	119.70
26	BB	2825	G	N3-C4-N9	7.28	130.37	126.00
1	AA	253	A	C4-C5-N7	7.28	114.34	110.70
17	AQ	37	ASP	CB-CG-OD2	-7.28	111.75	118.30
26	BB	379	G	C5-N7-C8	-7.28	100.66	104.30
1	AA	1	A	C8-N9-C4	7.28	108.71	105.80
1	AA	1234	C	C5-C6-N1	7.28	124.64	121.00
4	AD	42	C	N3-C4-N4	-7.28	112.91	118.00
16	AP	57	ASP	CB-CG-OD1	-7.28	111.75	118.30
26	BB	325	G	O4'-C1'-N9	7.28	114.02	108.20
26	BB	602	A	C8-N9-C4	-7.28	102.89	105.80
26	BB	1704	C	C2-N3-C4	-7.28	116.26	119.90
26	BB	2158	A	N1-C2-N3	7.28	132.94	129.30
26	BB	2287	A	N1-C6-N6	-7.28	114.23	118.60
26	BB	2857	G	C5-C6-O6	-7.28	124.23	128.60
1	AA	70	U	C2-N3-C4	-7.28	122.64	127.00
2	AB	52	A	C8-N9-C4	-7.28	102.89	105.80
26	BB	1034	G	C5-C6-N1	7.28	115.14	111.50
26	BB	1598	A	C6-N1-C2	7.28	122.97	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1822	C	C1'-O4'-C4'	-7.28	104.08	109.90
26	BB	2302	U	N3-C4-C5	-7.28	110.23	114.60
4	AD	32	G	O4'-C1'-N9	7.27	114.02	108.20
26	BB	169	G	N1-C6-O6	-7.27	115.54	119.90
26	BB	1171	G	N9-C4-C5	7.27	108.31	105.40
26	BB	1644	C	C6-N1-C2	7.27	123.21	120.30
1	AA	36	C	C5-C6-N1	-7.27	117.36	121.00
1	AA	962	C	N3-C4-N4	7.27	123.09	118.00
26	BB	1050	A	C5-C6-N1	7.27	121.34	117.70
26	BB	2147	A	C2-N3-C4	7.27	114.24	110.60
26	BB	2465	C	N3-C4-N4	7.27	123.09	118.00
36	BL	44	TYR	CB-CG-CD1	7.27	125.36	121.00
1	AA	32	A	C6-N1-C2	7.27	122.96	118.60
1	AA	752	G	N9-C4-C5	7.27	108.31	105.40
1	AA	1350	A	C3'-C2'-C1'	-7.27	95.68	101.50
26	BB	1225	G	N9-C4-C5	-7.27	102.49	105.40
1	AA	1079	G	N3-C4-C5	-7.27	124.97	128.60
26	BB	131	A	C5-N7-C8	-7.27	100.27	103.90
26	BB	1047	G	N3-C4-C5	-7.27	124.97	128.60
26	BB	1567	G	C4-C5-N7	-7.27	107.89	110.80
26	BB	1668	A	N9-C4-C5	-7.27	102.89	105.80
26	BB	2438	U	N3-C2-O2	-7.27	117.11	122.20
1	AA	652	U	N1-C1'-C2'	-7.27	104.00	112.00
25	BA	62	C	N1-C2-O2	7.27	123.26	118.90
26	BB	638	G	O4'-C1'-N9	7.27	114.01	108.20
26	BB	1039	A	N1-C6-N6	7.27	122.96	118.60
26	BB	1259	G	C5'-C4'-O4'	7.27	117.82	109.10
26	BB	2265	U	O4'-C1'-N1	7.27	114.01	108.20
1	AA	221	C	O4'-C1'-N1	7.27	114.01	108.20
1	AA	1397	C	O4'-C1'-N1	7.27	114.01	108.20
26	BB	381	G	C2-N3-C4	7.27	115.53	111.90
26	BB	1097	U	C4-C5-C6	7.27	124.06	119.70
26	BB	1123	C	O4'-C1'-N1	7.27	114.01	108.20
26	BB	2119	A	C4'-C3'-C2'	7.27	109.87	102.60
26	BB	2783	U	C5'-C4'-O4'	7.27	117.82	109.10
26	BB	2812	G	C3'-C2'-C1'	-7.27	95.69	101.50
1	AA	872	A	C2-N3-C4	7.26	114.23	110.60
26	BB	179	C	C6-N1-C2	-7.26	117.39	120.30
26	BB	526	A	C4-C5-N7	-7.26	107.07	110.70
26	BB	812	C	N3-C4-N4	7.26	123.09	118.00
26	BB	971	G	N9-C1'-C2'	-7.26	104.01	112.00
26	BB	1151	A	C3'-C2'-C1'	7.26	107.31	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1811	G	P-O3'-C3'	7.26	128.42	119.70
26	BB	2011	U	N1-C2-N3	7.26	119.26	114.90
26	BB	2221	G	C5-C6-N1	7.26	115.13	111.50
26	BB	2854	G	O4'-C1'-N9	7.26	114.01	108.20
1	AA	458	U	N3-C2-O2	-7.26	117.12	122.20
1	AA	515	G	N9-C4-C5	7.26	108.31	105.40
2	AB	65	C	N3-C4-C5	-7.26	119.00	121.90
26	BB	543	G	O4'-C1'-N9	7.26	114.01	108.20
26	BB	686	U	O4'-C1'-N1	7.26	114.01	108.20
26	BB	1166	G	C5'-C4'-C3'	-7.26	104.38	116.00
1	AA	414	A	C8-N9-C4	7.26	108.70	105.80
1	AA	961	U	O4'-C1'-N1	7.26	114.01	108.20
1	AA	1043	G	C6-C5-N7	-7.26	126.04	130.40
1	AA	1045	C	C3'-C2'-C1'	-7.26	95.69	101.50
1	AA	1047	G	N3-C4-N9	7.26	130.36	126.00
1	AA	1101	A	C8-N9-C4	-7.26	102.90	105.80
1	AA	1300	G	O4'-C4'-C3'	7.26	111.91	106.10
3	AC	13	A	C6-N1-C2	-7.26	114.24	118.60
25	BA	34	A	C3'-C2'-C1'	7.26	107.31	101.50
26	BB	796	C	N1-C2-O2	7.26	123.26	118.90
26	BB	1627	G	C4'-C3'-C2'	-7.26	95.34	102.60
26	BB	2068	U	C1'-O4'-C4'	-7.26	104.09	109.90
26	BB	2795	C	C3'-C2'-C1'	7.26	107.31	101.50
1	AA	1080	A	N1-C6-N6	7.26	122.96	118.60
1	AA	1107	C	O4'-C1'-N1	7.26	114.01	108.20
4	AD	72	C	N3-C2-O2	-7.26	116.82	121.90
26	BB	550	C	N1-C2-O2	7.26	123.26	118.90
26	BB	559	G	C6-C5-N7	-7.26	126.04	130.40
26	BB	893	C	N1-C2-O2	7.26	123.26	118.90
26	BB	1562	U	C2-N3-C4	-7.26	122.64	127.00
26	BB	1591	A	C5-C6-N1	-7.26	114.07	117.70
26	BB	1895	C	N3-C2-O2	-7.26	116.82	121.90
26	BB	1941	C	N1-C2-N3	-7.26	114.12	119.20
26	BB	1991	U	C5-C4-O4	7.26	130.25	125.90
26	BB	2433	A	N7-C8-N9	-7.26	110.17	113.80
26	BB	2544	G	C8-N9-C4	-7.26	103.50	106.40
1	AA	609	A	N1-C2-N3	-7.26	125.67	129.30
26	BB	2795	C	C5-C6-N1	7.26	124.63	121.00
1	AA	205	A	C6-C5-N7	7.26	137.38	132.30
1	AA	771	G	O4'-C1'-C2'	7.26	114.13	107.60
1	AA	1474	U	N3-C4-O4	7.26	124.48	119.40
26	BB	1039	A	C2-N3-C4	7.26	114.23	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1514	G	C5'-C4'-O4'	7.26	117.81	109.10
26	BB	1967	C	C5-C6-N1	7.26	124.63	121.00
26	BB	2796	U	N3-C2-O2	-7.26	117.12	122.20
26	BB	2901	C	N3-C4-N4	-7.26	112.92	118.00
48	BX	57	TYR	CG-CD2-CE2	7.26	127.11	121.30
1	AA	747	A	N1-C6-N6	7.25	122.95	118.60
1	AA	867	G	O4'-C1'-N9	7.25	114.00	108.20
1	AA	1370	G	C6-C5-N7	7.25	134.75	130.40
26	BB	31	C	C5'-C4'-O4'	7.25	117.81	109.10
26	BB	2081	U	C5-C4-O4	-7.25	121.55	125.90
26	BB	2756	U	C2'-C3'-O3'	7.25	125.46	109.50
1	AA	204	G	N9-C4-C5	7.25	108.30	105.40
1	AA	956	U	O4'-C1'-N1	7.25	114.00	108.20
1	AA	1126	U	N1-C1'-C2'	-7.25	104.02	112.00
26	BB	122	G	N3-C4-N9	7.25	130.35	126.00
26	BB	893	C	C5-C4-N4	7.25	125.28	120.20
26	BB	1159	U	O4'-C1'-N1	7.25	114.00	108.20
26	BB	1777	U	C6-N1-C2	-7.25	116.65	121.00
26	BB	2609	U	N1-C2-O2	7.25	127.88	122.80
1	AA	452	A	C6-C5-N7	-7.25	127.22	132.30
1	AA	775	G	C1'-O4'-C4'	-7.25	104.10	109.90
1	AA	1226	C	C3'-C2'-C1'	7.25	107.30	101.50
26	BB	362	A	C5-C6-N1	7.25	121.33	117.70
26	BB	1622	G	C4-C5-N7	-7.25	107.90	110.80
26	BB	2263	C	C6-N1-C2	-7.25	117.40	120.30
26	BB	2715	C	C6-N1-C2	-7.25	117.40	120.30
1	AA	488	C	N1-C2-O2	7.25	123.25	118.90
26	BB	625	G	C1'-O4'-C4'	-7.25	104.10	109.90
26	BB	1469	A	O4'-C1'-N9	7.25	114.00	108.20
26	BB	1682	G	N3-C4-C5	-7.25	124.97	128.60
26	BB	2631	G	C5'-C4'-O4'	7.25	117.80	109.10
1	AA	376	G	C4'-C3'-C2'	-7.25	95.35	102.60
1	AA	771	G	N9-C1'-C2'	-7.25	104.03	112.00
2	AB	22	G	N1-C6-O6	-7.25	115.55	119.90
25	BA	34	A	C4-C5-N7	-7.25	107.08	110.70
26	BB	1071	G	N9-C1'-C2'	-7.25	104.03	112.00
26	BB	1490	A	C5-N7-C8	-7.25	100.28	103.90
26	BB	1579	A	N1-C2-N3	-7.25	125.68	129.30
26	BB	1703	G	N1-C2-N3	-7.25	119.55	123.90
26	BB	2787	C	C1'-O4'-C4'	-7.25	104.10	109.90
4	AD	26	C	C5-C4-N4	-7.25	115.13	120.20
10	AJ	61	PHE	CB-CG-CD1	7.25	125.87	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	325	G	N9-C4-C5	7.25	108.30	105.40
26	BB	1812	U	C4'-C3'-C2'	-7.25	95.35	102.60
1	AA	675	A	P-O5'-C5'	7.25	132.49	120.90
26	BB	1680	U	C4-C5-C6	-7.25	115.35	119.70
26	BB	2676	C	C5'-C4'-O4'	7.25	117.79	109.10
1	AA	888	G	C6-N1-C2	-7.24	120.75	125.10
1	AA	1335	U	C5-C6-N1	-7.24	119.08	122.70
1	AA	1371	G	N3-C4-C5	-7.24	124.98	128.60
1	AA	1434	A	C5-C6-N1	7.24	121.32	117.70
26	BB	309	A	C4-C5-N7	7.24	114.32	110.70
26	BB	396	G	C6-C5-N7	7.24	134.75	130.40
26	BB	451	U	N3-C4-C5	-7.24	110.25	114.60
26	BB	2224	G	C3'-C2'-C1'	7.24	107.30	101.50
26	BB	292	U	C5'-C4'-O4'	7.24	117.79	109.10
26	BB	502	A	C8-N9-C4	-7.24	102.90	105.80
26	BB	2336	A	C5-C6-N6	-7.24	117.91	123.70
26	BB	2841	C	N3-C4-C5	-7.24	119.00	121.90
1	AA	164	G	N1-C6-O6	7.24	124.25	119.90
1	AA	184	G	O4'-C1'-N9	7.24	113.99	108.20
1	AA	520	A	C8-N9-C4	-7.24	102.90	105.80
1	AA	763	G	O4'-C1'-N9	7.24	113.99	108.20
26	BB	645	C	C3'-C2'-C1'	-7.24	95.71	101.50
26	BB	1415	U	C3'-C2'-C1'	-7.24	95.71	101.50
26	BB	1642	G	N9-C1'-C2'	-7.24	104.03	112.00
26	BB	1790	C	P-O3'-C3'	7.24	128.39	119.70
1	AA	581	G	N7-C8-N9	7.24	116.72	113.10
1	AA	1457	G	N9-C4-C5	7.24	108.30	105.40
26	BB	244	A	O4'-C1'-N9	7.24	113.99	108.20
26	BB	1245	G	C6-N1-C2	-7.24	120.76	125.10
26	BB	1976	U	C6-N1-C2	-7.24	116.66	121.00
26	BB	2022	U	C4-C5-C6	7.24	124.04	119.70
1	AA	325	A	C1'-O4'-C4'	-7.24	104.11	109.90
1	AA	409	U	C6-N1-C2	-7.24	116.66	121.00
26	BB	332	A	C8-N9-C4	-7.24	102.91	105.80
26	BB	1560	G	N3-C4-C5	-7.24	124.98	128.60
26	BB	1791	A	C4-C5-N7	7.24	114.32	110.70
1	AA	39	G	N3-C4-C5	-7.24	124.98	128.60
1	AA	269	C	N3-C4-N4	-7.24	112.94	118.00
1	AA	667	G	N3-C4-C5	-7.24	124.98	128.60
1	AA	1024	G	N3-C4-C5	-7.24	124.98	128.60
3	AC	42	U	C6-N1-C2	-7.24	116.66	121.00
26	BB	2561	U	C5'-C4'-O4'	7.24	117.78	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2586	U	C2-N3-C4	-7.24	122.66	127.00
1	AA	415	A	N7-C8-N9	7.23	117.42	113.80
1	AA	579	A	N1-C2-N3	7.23	132.92	129.30
1	AA	1508	A	C5-C6-N1	7.23	121.32	117.70
2	AB	49	G	C2-N3-C4	7.23	115.52	111.90
26	BB	917	A	C5-N7-C8	7.23	107.52	103.90
26	BB	1433	A	N1-C6-N6	-7.23	114.26	118.60
1	AA	251	G	N3-C4-C5	-7.23	124.98	128.60
1	AA	1334	G	C5'-C4'-O4'	7.23	117.78	109.10
1	AA	1412	C	C4-C5-C6	-7.23	113.78	117.40
1	AA	1501	C	C4-C5-C6	7.23	121.02	117.40
11	AK	76	ARG	NE-CZ-NH2	-7.23	116.68	120.30
26	BB	171	U	O4'-C1'-N1	7.23	113.99	108.20
26	BB	178	G	C5-N7-C8	-7.23	100.68	104.30
26	BB	2061	G	N9-C4-C5	7.23	108.29	105.40
26	BB	2137	U	N1-C2-N3	7.23	119.24	114.90
26	BB	2424	C	N1-C2-O2	-7.23	114.56	118.90
1	AA	47	C	N1-C2-O2	7.23	123.24	118.90
1	AA	471	U	N3-C4-O4	7.23	124.46	119.40
1	AA	514	C	N1-C2-O2	7.23	123.24	118.90
1	AA	567	G	C8-N9-C4	-7.23	103.51	106.40
1	AA	853	C	O4'-C1'-N1	7.23	113.98	108.20
26	BB	948	C	N3-C2-O2	-7.23	116.84	121.90
26	BB	1226	A	C8-N9-C4	-7.23	102.91	105.80
26	BB	1376	C	C2-N3-C4	-7.23	116.28	119.90
26	BB	2903	U	C1'-O4'-C4'	7.23	115.69	109.90
1	AA	1505	G	N1-C6-O6	7.23	124.24	119.90
17	AQ	8	ARG	NE-CZ-NH1	7.23	123.92	120.30
25	BA	4	C	C2-N3-C4	7.23	123.51	119.90
26	BB	1082	U	N1-C2-O2	-7.23	117.74	122.80
1	AA	24	U	O4'-C1'-N1	7.23	113.98	108.20
26	BB	843	G	N1-C2-N3	-7.23	119.56	123.90
26	BB	928	A	C5-C6-N1	7.23	121.31	117.70
26	BB	1000	A	C6-N1-C2	7.23	122.94	118.60
26	BB	1309	G	P-O3'-C3'	7.23	128.37	119.70
26	BB	1698	A	C4-C5-C6	7.23	120.61	117.00
26	BB	1977	A	C2-N3-C4	7.23	114.21	110.60
26	BB	2574	G	C8-N9-C4	-7.23	103.51	106.40
26	BB	2686	G	C4-C5-N7	-7.23	107.91	110.80
1	AA	1309	G	C2-N3-C4	7.23	115.51	111.90
25	BA	76	G	C6-C5-N7	-7.23	126.06	130.40
26	BB	312	G	O4'-C1'-N9	7.23	113.98	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1361	G	C8-N9-C4	-7.23	103.51	106.40
26	BB	2806	C	C6-N1-C2	-7.23	117.41	120.30
1	AA	628	G	C6-N1-C2	-7.22	120.77	125.10
1	AA	1029	U	N3-C2-O2	-7.22	117.14	122.20
26	BB	363	G	N3-C2-N2	7.22	124.96	119.90
26	BB	1207	C	C6-N1-C2	-7.22	117.41	120.30
26	BB	2776	A	N1-C6-N6	-7.22	114.27	118.60
1	AA	417	G	N7-C8-N9	-7.22	109.49	113.10
1	AA	891	U	C5-C6-N1	-7.22	119.09	122.70
1	AA	1491	G	C5-C6-N1	7.22	115.11	111.50
3	AC	38	G	C6-C5-N7	7.22	134.73	130.40
26	BB	880	G	C4-C5-N7	-7.22	107.91	110.80
26	BB	950	G	C2-N3-C4	7.22	115.51	111.90
26	BB	1766	G	N7-C8-N9	7.22	116.71	113.10
1	AA	376	G	N3-C2-N2	7.22	124.95	119.90
1	AA	503	C	C4-C5-C6	-7.22	113.79	117.40
1	AA	1299	A	O4'-C4'-C3'	-7.22	96.78	104.00
3	AC	39	U	C2'-C3'-O3'	7.22	125.39	109.50
26	BB	374	A	P-O3'-C3'	7.22	128.37	119.70
26	BB	869	G	N3-C4-C5	-7.22	124.99	128.60
26	BB	1003	G	N1-C2-N3	-7.22	119.57	123.90
26	BB	1725	U	N1-C2-N3	7.22	119.23	114.90
26	BB	1977	A	C4'-C3'-C2'	-7.22	95.38	102.60
1	AA	83	C	N3-C4-C5	7.22	124.79	121.90
1	AA	1429	A	C3'-C2'-C1'	-7.22	95.72	101.50
3	AC	17	U	C4-C5-C6	-7.22	115.37	119.70
26	BB	156	A	C4-C5-N7	-7.22	107.09	110.70
26	BB	450	G	N1-C6-O6	-7.22	115.57	119.90
26	BB	818	G	O4'-C1'-N9	7.22	113.97	108.20
26	BB	1006	C	C3'-C2'-C1'	-7.22	95.72	101.50
26	BB	1152	C	C2-N3-C4	7.22	123.51	119.90
26	BB	1496	A	O5'-P-OP2	-7.22	99.20	105.70
26	BB	1804	C	N3-C4-N4	7.22	123.05	118.00
26	BB	2332	C	O4'-C1'-N1	7.22	113.98	108.20
26	BB	2516	A	N9-C4-C5	-7.22	102.91	105.80
1	AA	344	A	C4-C5-N7	-7.22	107.09	110.70
1	AA	554	A	N1-C6-N6	-7.22	114.27	118.60
1	AA	703	G	N1-C2-N3	-7.22	119.57	123.90
26	BB	248	G	C6-N1-C2	-7.22	120.77	125.10
26	BB	1313	U	C1'-O4'-C4'	7.22	115.67	109.90
26	BB	1557	C	N1-C2-O2	7.22	123.23	118.90
26	BB	1566	A	C4-C5-C6	-7.22	113.39	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1664	A	N1-C6-N6	-7.22	114.27	118.60
26	BB	1919	A	O3'-P-O5'	-7.22	90.28	104.00
26	BB	2082	A	N9-C1'-C2'	-7.22	104.06	112.00
26	BB	2278	A	C4'-C3'-C2'	-7.22	95.38	102.60
26	BB	2689	U	N1-C2-O2	7.22	127.85	122.80
1	AA	666	G	N3-C4-N9	7.22	130.33	126.00
1	AA	1191	A	C8-N9-C4	-7.22	102.91	105.80
26	BB	3	U	C5-C6-N1	-7.22	119.09	122.70
26	BB	84	A	C5-C6-N6	-7.22	117.93	123.70
26	BB	434	U	N3-C4-C5	-7.22	110.27	114.60
26	BB	801	G	C5-N7-C8	7.22	107.91	104.30
26	BB	1954	G	C2-N3-C4	7.22	115.51	111.90
1	AA	670	G	C4-C5-N7	-7.21	107.91	110.80
1	AA	732	C	C5-C4-N4	-7.21	115.15	120.20
1	AA	1223	C	C5'-C4'-O4'	7.21	117.76	109.10
26	BB	355	U	N1-C2-O2	-7.21	117.75	122.80
26	BB	752	A	C6-C5-N7	-7.21	127.25	132.30
26	BB	1300	G	C4-C5-C6	7.21	123.13	118.80
26	BB	1517	G	C5-N7-C8	-7.21	100.69	104.30
26	BB	1730	C	C3'-C2'-C1'	-7.21	95.73	101.50
26	BB	2215	C	N1-C1'-C2'	-7.21	104.06	112.00
26	BB	2559	C	C1'-O4'-C4'	-7.21	104.13	109.90
26	BB	2567	G	C2-N3-C4	-7.21	108.29	111.90
26	BB	2678	C	N1-C2-O2	7.21	123.23	118.90
1	AA	1431	A	C5-C6-N6	-7.21	117.93	123.70
26	BB	106	C	O4'-C1'-N1	7.21	113.97	108.20
26	BB	530	G	C5-C6-N1	-7.21	107.89	111.50
26	BB	1506	U	N3-C2-O2	-7.21	117.15	122.20
1	AA	1002	G	C8-N9-C4	-7.21	103.52	106.40
1	AA	1077	G	C2-N3-C4	7.21	115.51	111.90
2	AB	11	U	C1'-O4'-C4'	-7.21	104.13	109.90
25	BA	58	A	N1-C2-N3	-7.21	125.69	129.30
26	BB	85	G	N1-C2-N2	-7.21	109.71	116.20
26	BB	309	A	P-O3'-C3'	7.21	128.35	119.70
26	BB	642	U	C5-C4-O4	-7.21	121.57	125.90
26	BB	754	U	N3-C2-O2	-7.21	117.15	122.20
26	BB	1454	C	N3-C4-C5	-7.21	119.02	121.90
26	BB	2097	A	N7-C8-N9	7.21	117.41	113.80
26	BB	2815	C	C5-C6-N1	-7.21	117.39	121.00
26	BB	2869	G	C4-C5-N7	-7.21	107.92	110.80
29	BE	33	ARG	NE-CZ-NH1	-7.21	116.69	120.30
1	AA	34	C	N3-C4-C5	-7.21	119.02	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	161	A	C5'-C4'-O4'	7.21	117.75	109.10
1	AA	1399	C	C6-N1-C2	7.21	123.18	120.30
26	BB	2461	A	O4'-C4'-C3'	7.21	111.87	106.10
1	AA	107	G	N9-C1'-C2'	-7.21	104.07	112.00
1	AA	953	G	N1-C2-N3	7.21	128.22	123.90
1	AA	1306	A	N3-C4-C5	7.21	131.85	126.80
25	BA	113	C	N1-C1'-C2'	-7.21	104.07	112.00
26	BB	2327	A	C5-C6-N1	7.21	121.30	117.70
1	AA	1156	G	C6-C5-N7	-7.21	126.08	130.40
1	AA	1425	U	O4'-C1'-N1	7.21	113.97	108.20
26	BB	330	A	N1-C2-N3	-7.21	125.70	129.30
26	BB	572	A	C3'-C2'-C1'	7.21	107.27	101.50
26	BB	1080	A	N3-C4-C5	-7.21	121.75	126.80
26	BB	1227	G	O4'-C1'-N9	7.21	113.97	108.20
26	BB	1989	G	C4-C5-C6	7.21	123.12	118.80
26	BB	2334	U	O4'-C1'-N1	7.21	113.97	108.20
26	BB	2704	C	C6-N1-C2	7.21	123.18	120.30
1	AA	1244	G	C1'-O4'-C4'	-7.21	104.14	109.90
26	BB	565	C	C4-C5-C6	-7.21	113.80	117.40
26	BB	748	G	C6-N1-C2	7.21	129.42	125.10
26	BB	785	G	C4-C5-N7	7.21	113.68	110.80
26	BB	1415	U	O4'-C1'-N1	7.21	113.96	108.20
26	BB	1473	G	C2-N3-C4	7.21	115.50	111.90
26	BB	1505	A	C4-C5-C6	-7.21	113.40	117.00
1	AA	19	A	C5-N7-C8	-7.20	100.30	103.90
1	AA	454	G	C6-C5-N7	-7.20	126.08	130.40
1	AA	710	G	C5-C6-N1	7.20	115.10	111.50
1	AA	1432	G	N9-C4-C5	7.20	108.28	105.40
25	BA	113	C	N3-C2-O2	7.20	126.94	121.90
26	BB	1152	C	C5-C6-N1	7.20	124.60	121.00
26	BB	1949	G	C4-C5-C6	7.20	123.12	118.80
26	BB	2103	C	N1-C2-O2	7.20	123.22	118.90
26	BB	203	A	O4'-C1'-N9	7.20	113.96	108.20
26	BB	1612	C	C4-C5-C6	7.20	121.00	117.40
26	BB	2543	G	C5-C6-N1	7.20	115.10	111.50
26	BB	2708	G	C8-N9-C4	-7.20	103.52	106.40
1	AA	114	U	C1'-O4'-C4'	7.20	115.66	109.90
1	AA	345	C	O4'-C1'-N1	7.20	113.96	108.20
1	AA	1075	U	P-O5'-C5'	7.20	132.42	120.90
1	AA	1225	A	P-O3'-C3'	7.20	128.34	119.70
1	AA	1421	G	O4'-C1'-N9	7.20	113.96	108.20
1	AA	1537	U	C5-C6-N1	7.20	126.30	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1039	A	C8-N9-C4	-7.20	102.92	105.80
26	BB	1168	G	N3-C4-C5	7.20	132.20	128.60
26	BB	1536	C	C4'-C3'-C2'	-7.20	95.40	102.60
26	BB	1947	C	N1-C2-O2	7.20	123.22	118.90
26	BB	2083	G	N7-C8-N9	7.20	116.70	113.10
26	BB	2280	G	C4-C5-N7	-7.20	107.92	110.80
26	BB	2627	G	C3'-C2'-C1'	-7.20	95.74	101.50
1	AA	139	A	C5-N7-C8	-7.20	100.30	103.90
1	AA	148	G	N7-C8-N9	7.20	116.70	113.10
1	AA	482	A	O4'-C4'-C3'	7.20	111.86	106.10
4	AD	39	A	N1-C2-N3	-7.20	125.70	129.30
26	BB	108	G	C4-C5-N7	7.20	113.68	110.80
26	BB	400	G	C1'-O4'-C4'	7.20	115.66	109.90
26	BB	832	U	C2-N3-C4	-7.20	122.68	127.00
26	BB	861	A	C6-N1-C2	-7.20	114.28	118.60
26	BB	2812	G	O4'-C1'-N9	7.20	113.96	108.20
1	AA	57	G	P-O3'-C3'	7.20	128.34	119.70
1	AA	1385	G	N9-C1'-C2'	-7.20	104.08	112.00
25	BA	84	G	C3'-C2'-C1'	7.20	107.26	101.50
26	BB	14	A	O4'-C4'-C3'	7.20	111.86	106.10
26	BB	1303	G	N9-C4-C5	7.20	108.28	105.40
26	BB	1388	G	C3'-C2'-C1'	-7.20	95.74	101.50
26	BB	1866	A	O4'-C1'-N9	7.20	113.96	108.20
26	BB	1982	U	C2-N3-C4	-7.20	122.68	127.00
26	BB	2232	C	C4'-C3'-C2'	-7.20	95.41	102.60
26	BB	2256	G	C5-N7-C8	-7.20	100.70	104.30
1	AA	1133	G	C5'-C4'-O4'	7.19	117.73	109.10
1	AA	1014	A	N9-C4-C5	7.19	108.68	105.80
1	AA	1259	C	C6-N1-C2	7.19	123.18	120.30
26	BB	101	A	N3-C4-C5	-7.19	121.77	126.80
26	BB	998	C	C4-C5-C6	7.19	121.00	117.40
26	BB	1742	U	C3'-C2'-C1'	7.19	107.25	101.50
1	AA	716	A	N3-C4-N9	-7.19	121.65	127.40
24	AX	30	GLU	OE1-CD-OE2	7.19	131.93	123.30
26	BB	362	A	N3-C4-C5	-7.19	121.77	126.80
26	BB	1436	G	N3-C4-N9	7.19	130.31	126.00
26	BB	2375	G	N3-C4-C5	-7.19	125.00	128.60
26	BB	2419	U	O4'-C1'-N1	7.19	113.95	108.20
37	BM	100	PHE	CB-CG-CD2	7.19	125.83	120.80
1	AA	290	C	C4'-C3'-C2'	-7.19	95.41	102.60
1	AA	666	G	C6-C5-N7	-7.19	126.09	130.40
1	AA	1160	G	N3-C4-N9	7.19	130.31	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	48	U	C5-C6-N1	-7.19	119.11	122.70
26	BB	844	A	N1-C2-N3	7.19	132.89	129.30
1	AA	1093	A	N1-C6-N6	-7.19	114.29	118.60
4	AD	20	G	N7-C8-N9	7.19	116.69	113.10
26	BB	639	U	C4-C5-C6	7.19	124.01	119.70
26	BB	1142	A	N1-C6-N6	7.19	122.91	118.60
26	BB	1780	A	C6-N1-C2	-7.19	114.29	118.60
26	BB	2040	G	C4-C5-N7	-7.19	107.92	110.80
26	BB	2871	U	P-O3'-C3'	7.19	128.33	119.70
26	BB	2898	U	C5-C6-N1	7.19	126.29	122.70
1	AA	182	A	O4'-C1'-N9	7.19	113.95	108.20
25	BA	87	U	C2'-C3'-O3'	7.19	125.31	109.50
26	BB	1312	U	O4'-C4'-C3'	7.19	111.85	106.10
26	BB	1736	U	N1-C2-O2	-7.19	117.77	122.80
26	BB	2010	G	C5-C6-O6	-7.19	124.29	128.60
26	BB	2597	G	N7-C8-N9	7.19	116.69	113.10
26	BB	2732	G	N3-C4-C5	-7.19	125.01	128.60
1	AA	100	G	O4'-C1'-N9	7.18	113.95	108.20
1	AA	181	A	N1-C2-N3	-7.18	125.71	129.30
1	AA	741	G	O4'-C1'-N9	7.18	113.95	108.20
26	BB	29	U	P-O3'-C3'	7.18	128.32	119.70
26	BB	647	G	C4-C5-C6	7.18	123.11	118.80
26	BB	990	A	N1-C6-N6	-7.18	114.29	118.60
26	BB	1431	A	C6-N1-C2	-7.18	114.29	118.60
26	BB	2661	G	C2-N3-C4	-7.18	108.31	111.90
1	AA	376	G	C8-N9-C4	-7.18	103.53	106.40
1	AA	439	U	N3-C2-O2	-7.18	117.17	122.20
1	AA	1501	C	O4'-C1'-N1	7.18	113.95	108.20
4	AD	44	A	C6-C5-N7	7.18	137.33	132.30
26	BB	1105	U	C2-N3-C4	-7.18	122.69	127.00
26	BB	1296	G	C4-C5-C6	7.18	123.11	118.80
26	BB	1499	C	C5-C4-N4	-7.18	115.17	120.20
26	BB	2550	G	C6-C5-N7	-7.18	126.09	130.40
26	BB	2801	G	C8-N9-C4	-7.18	103.53	106.40
26	BB	317	G	C1'-O4'-C4'	-7.18	104.16	109.90
26	BB	910	A	N9-C4-C5	7.18	108.67	105.80
26	BB	2241	A	C5-C6-N6	-7.18	117.95	123.70
26	BB	2507	C	N1-C2-O2	7.18	123.21	118.90
51	B0	48	ARG	NE-CZ-NH2	7.18	123.89	120.30
1	AA	203	G	N1-C6-O6	7.18	124.21	119.90
1	AA	925	G	N1-C6-O6	7.18	124.21	119.90
26	BB	53	A	C4-C5-C6	-7.18	113.41	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	375	G	C5-N7-C8	-7.18	100.71	104.30
26	BB	647	G	C5-C6-O6	7.18	132.91	128.60
26	BB	1881	C	N3-C4-C5	7.18	124.77	121.90
26	BB	1958	C	N1-C2-O2	7.18	123.21	118.90
26	BB	2257	U	C2-N3-C4	-7.18	122.69	127.00
26	BB	2818	U	O4'-C1'-N1	7.18	113.94	108.20
1	AA	50	A	N7-C8-N9	7.18	117.39	113.80
2	AB	29	G	N3-C2-N2	-7.18	114.88	119.90
26	BB	1274	A	N1-C2-N3	-7.18	125.71	129.30
1	AA	146	G	C6-N1-C2	-7.18	120.79	125.10
1	AA	198	G	C6-C5-N7	-7.18	126.09	130.40
1	AA	253	A	C5'-C4'-O4'	7.18	117.71	109.10
1	AA	360	G	N3-C4-C5	-7.18	125.01	128.60
1	AA	1162	C	N3-C2-O2	-7.18	116.88	121.90
4	AD	24	C	C1'-O4'-C4'	-7.18	104.16	109.90
26	BB	566	U	N1-C2-N3	7.18	119.20	114.90
26	BB	785	G	N1-C2-N3	-7.18	119.59	123.90
26	BB	1227	G	C5-C6-N1	7.18	115.09	111.50
26	BB	1230	A	C5-C6-N6	-7.18	117.96	123.70
26	BB	1489	C	C5'-C4'-C3'	-7.18	104.52	116.00
26	BB	1763	G	C4'-C3'-C2'	-7.18	95.42	102.60
1	AA	191	G	C6-N1-C2	-7.17	120.80	125.10
25	BA	20	G	C1'-O4'-C4'	-7.17	104.16	109.90
26	BB	904	G	C1'-O4'-C4'	-7.17	104.16	109.90
26	BB	2000	C	O4'-C1'-N1	7.17	113.94	108.20
26	BB	2511	U	O4'-C1'-N1	7.17	113.94	108.20
29	BE	80	TRP	NE1-CE2-CD2	-7.17	100.12	107.30
1	AA	1017	U	C2-N3-C4	-7.17	122.70	127.00
1	AA	1308	U	C4'-C3'-C2'	-7.17	95.43	102.60
26	BB	1399	C	C6-N1-C2	-7.17	117.43	120.30
26	BB	2084	C	N1-C2-O2	7.17	123.20	118.90
26	BB	2349	G	C5-C6-O6	-7.17	124.30	128.60
1	AA	439	U	C6-N1-C2	-7.17	116.70	121.00
1	AA	495	A	C4'-C3'-C2'	-7.17	95.43	102.60
26	BB	546	U	C4-C5-C6	7.17	124.00	119.70
26	BB	1789	A	C5'-C4'-O4'	7.17	117.71	109.10
1	AA	851	G	C2-N3-C4	-7.17	108.31	111.90
1	AA	1110	A	C5-C6-N1	7.17	121.28	117.70
26	BB	869	G	C6-C5-N7	-7.17	126.10	130.40
26	BB	2092	U	C5-C6-N1	7.17	126.28	122.70
38	BN	69	ARG	NE-CZ-NH2	-7.17	116.72	120.30
1	AA	27	G	C3'-C2'-C1'	7.17	107.23	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	60	A	P-O3'-C3'	7.17	128.30	119.70
1	AA	68	G	C4-C5-N7	7.17	113.67	110.80
1	AA	483	C	N3-C4-N4	7.17	123.02	118.00
1	AA	627	G	N3-C4-C5	-7.17	125.02	128.60
1	AA	1529	G	P-O3'-C3'	7.17	128.30	119.70
25	BA	56	G	N3-C4-C5	-7.17	125.02	128.60
26	BB	343	C	N3-C4-C5	-7.17	119.03	121.90
26	BB	351	C	C1'-O4'-C4'	-7.17	104.17	109.90
26	BB	1189	A	N7-C8-N9	-7.17	110.22	113.80
26	BB	1622	G	C4'-C3'-C2'	-7.17	95.43	102.60
26	BB	1640	A	N9-C1'-C2'	-7.17	104.11	112.00
26	BB	1958	C	O4'-C1'-C2'	7.17	114.05	107.60
26	BB	2213	U	C4-C5-C6	7.17	124.00	119.70
1	AA	263	A	O4'-C1'-N9	7.17	113.93	108.20
1	AA	627	G	C5-C6-N1	7.17	115.08	111.50
26	BB	134	G	C5-N7-C8	7.17	107.88	104.30
26	BB	139	U	C1'-O4'-C4'	-7.17	104.17	109.90
26	BB	489	G	C4-C5-C6	7.17	123.10	118.80
26	BB	753	A	C8-N9-C4	-7.17	102.93	105.80
26	BB	1759	A	N1-C2-N3	-7.17	125.72	129.30
26	BB	2067	G	C6-C5-N7	-7.17	126.10	130.40
26	BB	2375	G	C6-N1-C2	-7.17	120.80	125.10
26	BB	2833	U	C5-C4-O4	-7.17	121.60	125.90
1	AA	917	G	N3-C4-C5	-7.17	125.02	128.60
3	AC	52	U	N1-C2-N3	7.17	119.20	114.90
26	BB	1686	C	C6-N1-C2	-7.17	117.43	120.30
26	BB	1892	C	C5-C4-N4	-7.17	115.19	120.20
26	BB	1988	G	O4'-C1'-N9	7.17	113.93	108.20
1	AA	58	C	N1-C2-O2	7.16	123.20	118.90
1	AA	1076	U	N3-C4-O4	7.16	124.41	119.40
26	BB	659	G	C1'-O4'-C4'	-7.16	104.17	109.90
26	BB	797	G	N3-C4-C5	-7.16	125.02	128.60
26	BB	1039	A	C5'-C4'-O4'	7.16	117.70	109.10
26	BB	1115	G	N9-C4-C5	7.16	108.27	105.40
26	BB	1545	A	O4'-C1'-N9	7.16	113.93	108.20
26	BB	1705	A	N9-C4-C5	-7.16	102.93	105.80
26	BB	2010	G	N3-C4-N9	7.16	130.30	126.00
26	BB	2240	U	C5-C6-N1	-7.16	119.12	122.70
26	BB	2663	G	C4-C5-C6	7.16	123.10	118.80
1	AA	958	A	C4-C5-N7	7.16	114.28	110.70
26	BB	1136	G	C2-N3-C4	7.16	115.48	111.90
26	BB	1299	G	C5-C6-O6	-7.16	124.30	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2107	G	C6-N1-C2	-7.16	120.80	125.10
26	BB	2774	C	C4-C5-C6	-7.16	113.82	117.40
1	AA	1089	G	C4'-C3'-C2'	-7.16	95.44	102.60
1	AA	1323	G	C2-N3-C4	7.16	115.48	111.90
26	BB	129	C	C5'-C4'-O4'	7.16	117.69	109.10
26	BB	218	A	C2-N3-C4	7.16	114.18	110.60
26	BB	246	C	N1-C2-N3	-7.16	114.19	119.20
26	BB	650	C	N3-C2-O2	-7.16	116.89	121.90
26	BB	1470	A	O4'-C1'-N9	-7.16	102.47	108.20
26	BB	2539	C	O4'-C1'-N1	7.16	113.93	108.20
1	AA	434	U	N1-C2-N3	7.16	119.20	114.90
1	AA	550	G	O4'-C1'-N9	7.16	113.93	108.20
1	AA	1040	U	C1'-O4'-C4'	-7.16	104.17	109.90
1	AA	1246	A	C4-C5-N7	-7.16	107.12	110.70
26	BB	496	G	C5-C6-O6	-7.16	124.31	128.60
26	BB	644	A	C5'-C4'-O4'	7.16	117.69	109.10
26	BB	800	A	C6-C5-N7	-7.16	127.29	132.30
26	BB	906	U	C5'-C4'-O4'	7.16	117.69	109.10
26	BB	1132	U	N3-C2-O2	-7.16	117.19	122.20
26	BB	1878	G	O4'-C1'-N9	7.16	113.93	108.20
2	AB	75	C	O4'-C1'-N1	7.16	113.92	108.20
26	BB	189	G	C8-N9-C4	-7.16	103.54	106.40
26	BB	352	A	N7-C8-N9	-7.16	110.22	113.80
26	BB	2119	A	C4-C5-C6	-7.16	113.42	117.00
1	AA	368	U	C5'-C4'-O4'	7.16	117.69	109.10
1	AA	383	A	N1-C2-N3	-7.16	125.72	129.30
1	AA	928	G	N3-C4-N9	7.16	130.29	126.00
1	AA	1045	C	N1-C2-N3	-7.16	114.19	119.20
1	AA	1521	C	C5'-C4'-O4'	7.16	117.69	109.10
2	AB	51	G	N3-C2-N2	7.16	124.91	119.90
4	AD	63	C	P-O5'-C5'	7.16	132.35	120.90
26	BB	88	G	N3-C2-N2	7.16	124.91	119.90
26	BB	673	C	N3-C2-O2	-7.16	116.89	121.90
26	BB	2293	G	C6-C5-N7	7.16	134.69	130.40
1	AA	1088	G	C6-N1-C2	-7.15	120.81	125.10
26	BB	261	G	C5-N7-C8	7.15	107.88	104.30
26	BB	352	A	C1'-O4'-C4'	-7.15	104.18	109.90
26	BB	1115	G	C6-C5-N7	7.15	134.69	130.40
26	BB	1377	G	N1-C2-N2	7.15	122.64	116.20
1	AA	1265	C	O4'-C1'-N1	7.15	113.92	108.20
1	AA	1305	G	C6-C5-N7	-7.15	126.11	130.40
25	BA	78	A	C8-N9-C4	-7.15	102.94	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	539	G	C5-C6-N1	7.15	115.08	111.50
26	BB	1305	C	N1-C1'-C2'	-7.15	104.13	112.00
26	BB	1379	U	N1-C2-N3	7.15	119.19	114.90
26	BB	1559	U	C4'-C3'-C2'	-7.15	95.45	102.60
26	BB	1714	U	N1-C2-O2	7.15	127.81	122.80
1	AA	125	U	N3-C4-O4	7.15	124.41	119.40
1	AA	211	G	C2-N3-C4	-7.15	108.32	111.90
26	BB	250	G	C2-N3-C4	7.15	115.47	111.90
26	BB	358	U	N3-C2-O2	-7.15	117.19	122.20
26	BB	926	G	N3-C2-N2	7.15	124.91	119.90
26	BB	1352	U	N1-C1'-C2'	-7.15	104.14	112.00
26	BB	1705	A	C1'-O4'-C4'	-7.15	104.18	109.90
26	BB	1788	C	O4'-C1'-N1	7.15	113.92	108.20
1	AA	509	A	C5-N7-C8	-7.15	100.33	103.90
1	AA	670	G	N9-C4-C5	7.15	108.26	105.40
2	AB	18	G	C6-C5-N7	-7.15	126.11	130.40
4	AD	47	A	N1-C2-N3	-7.15	125.73	129.30
26	BB	665	U	N3-C4-O4	7.15	124.40	119.40
26	BB	2844	G	C2-N3-C4	7.15	115.47	111.90
1	AA	321	A	C6-C5-N7	7.15	137.30	132.30
1	AA	1060	U	C2-N3-C4	-7.15	122.71	127.00
1	AA	1416	G	N3-C4-C5	-7.15	125.03	128.60
1	AA	1433	A	C5-C6-N6	7.15	129.42	123.70
7	AG	112	GLU	OE1-CD-OE2	7.15	131.88	123.30
26	BB	54	G	O4'-C4'-C3'	7.15	111.82	106.10
26	BB	849	A	C1'-O4'-C4'	-7.15	104.18	109.90
26	BB	920	A	C5-C6-N1	-7.15	114.13	117.70
26	BB	1486	U	C6-N1-C2	-7.15	116.71	121.00
26	BB	1613	G	C4'-C3'-C2'	-7.15	95.45	102.60
26	BB	2560	A	N1-C2-N3	7.15	132.87	129.30
26	BB	2675	A	N1-C6-N6	-7.15	114.31	118.60
26	BB	2685	G	C4-C5-N7	-7.15	107.94	110.80
26	BB	2715	C	C4-C5-C6	-7.15	113.83	117.40
26	BB	2890	G	C4-C5-N7	-7.15	107.94	110.80
45	BU	92	ARG	NE-CZ-NH1	-7.15	116.73	120.30
1	AA	1061	G	C8-N9-C1'	7.15	136.29	127.00
26	BB	742	A	C5-C6-N1	7.15	121.27	117.70
26	BB	1221	C	O4'-C1'-N1	7.15	113.92	108.20
26	BB	2079	U	C1'-O4'-C4'	7.15	115.62	109.90
26	BB	2539	C	N3-C2-O2	-7.15	116.90	121.90
1	AA	115	G	C4-C5-N7	7.14	113.66	110.80
1	AA	115	G	C5-N7-C8	-7.14	100.73	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	177	G	N9-C4-C5	7.14	108.26	105.40
1	AA	248	C	C6-N1-C2	7.14	123.16	120.30
1	AA	1241	G	C4-C5-N7	7.14	113.66	110.80
26	BB	245	G	C4-C5-C6	7.14	123.09	118.80
26	BB	610	C	N1-C2-N3	-7.14	114.20	119.20
26	BB	2167	U	C5-C6-N1	7.14	126.27	122.70
26	BB	2584	U	C6-N1-C2	-7.14	116.71	121.00
26	BB	2607	G	N1-C6-O6	7.14	124.19	119.90
1	AA	179	A	C3'-C2'-C1'	-7.14	95.79	101.50
1	AA	578	C	C2-N3-C4	7.14	123.47	119.90
1	AA	726	C	O4'-C1'-N1	7.14	113.91	108.20
1	AA	1346	A	N7-C8-N9	-7.14	110.23	113.80
26	BB	237	C	N1-C2-N3	-7.14	114.20	119.20
26	BB	619	G	C8-N9-C4	-7.14	103.54	106.40
26	BB	1853	A	C6-N1-C2	-7.14	114.31	118.60
26	BB	1899	A	C4-C5-C6	-7.14	113.43	117.00
26	BB	2639	A	C5-C6-N1	-7.14	114.13	117.70
26	BB	2811	G	N3-C4-C5	-7.14	125.03	128.60
7	AG	103	ARG	NE-CZ-NH1	7.14	123.87	120.30
26	BB	1358	G	N1-C2-N3	-7.14	119.61	123.90
26	BB	2210	U	N3-C4-O4	7.14	124.40	119.40
26	BB	2253	G	C5-N7-C8	-7.14	100.73	104.30
1	AA	242	G	C6-N1-C2	-7.14	120.82	125.10
1	AA	292	G	N1-C2-N3	-7.14	119.62	123.90
1	AA	603	U	N3-C2-O2	-7.14	117.20	122.20
26	BB	987	C	C2'-C3'-O3'	7.14	125.21	109.50
26	BB	1202	G	C8-N9-C4	7.14	109.26	106.40
26	BB	1422	G	N1-C2-N3	-7.14	119.62	123.90
26	BB	1459	G	N1-C2-N3	-7.14	119.62	123.90
26	BB	1931	U	O4'-C1'-C2'	7.14	114.03	107.60
26	BB	1997	C	C4'-C3'-C2'	-7.14	95.46	102.60
26	BB	2230	G	C4-C5-N7	-7.14	107.94	110.80
26	BB	2382	G	O3'-P-O5'	-7.14	90.44	104.00
26	BB	2431	U	N1-C2-O2	7.14	127.80	122.80
26	BB	2477	U	O4'-C1'-N1	7.14	113.91	108.20
26	BB	2744	G	C4'-C3'-C2'	-7.14	95.46	102.60
1	AA	517	G	O4'-C4'-C3'	7.14	111.81	106.10
21	AU	21	ASP	CB-CG-OD1	-7.14	111.88	118.30
26	BB	276	U	N3-C4-C5	7.14	118.88	114.60
26	BB	1127	A	C3'-C2'-C1'	7.14	107.21	101.50
26	BB	1163	G	C5-C6-N1	7.14	115.07	111.50
26	BB	1492	G	N9-C4-C5	7.14	108.25	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2334	U	N1-C2-O2	7.14	127.80	122.80
1	AA	215	C	C5-C4-N4	7.14	125.20	120.20
1	AA	870	U	N3-C4-O4	7.14	124.40	119.40
2	AB	60	U	C5-C4-O4	-7.14	121.62	125.90
26	BB	1166	G	C6-C5-N7	-7.14	126.12	130.40
26	BB	1171	G	N3-C4-N9	-7.14	121.72	126.00
26	BB	1382	G	N3-C4-C5	-7.14	125.03	128.60
26	BB	1802	A	C8-N9-C4	-7.14	102.94	105.80
26	BB	2153	C	N1-C2-O2	7.14	123.18	118.90
26	BB	2835	A	C5-C6-N6	7.14	129.41	123.70
1	AA	854	U	C6-N1-C2	-7.13	116.72	121.00
1	AA	1162	C	N1-C1'-C2'	-7.13	104.15	112.00
26	BB	798	G	C2-N3-C4	7.13	115.47	111.90
26	BB	1189	A	O4'-C1'-N9	7.13	113.91	108.20
26	BB	2215	C	N3-C2-O2	-7.13	116.91	121.90
41	BQ	56	LYS	CA-CB-CG	7.13	129.10	113.40
53	B2	56	ARG	CD-NE-CZ	7.13	133.59	123.60
1	AA	324	G	C8-N9-C4	-7.13	103.55	106.40
1	AA	1403	C	O4'-C1'-N1	7.13	113.91	108.20
1	AA	1454	G	O4'-C1'-N9	7.13	113.91	108.20
26	BB	996	A	C5-C6-N1	7.13	121.27	117.70
26	BB	1553	A	C4-C5-N7	-7.13	107.13	110.70
1	AA	467	U	N3-C2-O2	-7.13	117.21	122.20
1	AA	567	G	N7-C8-N9	7.13	116.67	113.10
1	AA	703	G	C1'-O4'-C4'	7.13	115.60	109.90
1	AA	924	C	O4'-C1'-N1	7.13	113.91	108.20
1	AA	1041	G	N1-C6-O6	7.13	124.18	119.90
13	AM	7	ARG	NE-CZ-NH2	-7.13	116.73	120.30
26	BB	919	U	C4'-C3'-C2'	-7.13	95.47	102.60
26	BB	2212	A	N7-C8-N9	-7.13	110.23	113.80
26	BB	2343	U	C2-N3-C4	-7.13	122.72	127.00
26	BB	2502	G	C5-C6-O6	-7.13	124.32	128.60
26	BB	2736	A	O4'-C1'-N9	7.13	113.91	108.20
1	AA	172	A	C5-N7-C8	-7.13	100.33	103.90
1	AA	845	A	N7-C8-N9	7.13	117.36	113.80
1	AA	1458	G	C5-N7-C8	-7.13	100.73	104.30
26	BB	48	G	N1-C6-O6	-7.13	115.62	119.90
26	BB	849	A	C4-C5-C6	-7.13	113.44	117.00
26	BB	1586	A	C8-N9-C4	-7.13	102.95	105.80
1	AA	670	G	N3-C4-C5	-7.13	125.04	128.60
1	AA	761	G	C6-N1-C2	-7.13	120.82	125.10
1	AA	1114	C	N3-C4-N4	7.13	122.99	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1257	A	O4'-C1'-N9	7.13	113.90	108.20
26	BB	591	U	C5-C6-N1	-7.13	119.14	122.70
26	BB	2033	A	C5-C6-N6	7.13	129.40	123.70
26	BB	2101	A	N1-C6-N6	7.13	122.88	118.60
4	AD	26	C	O4'-C1'-N1	7.13	113.90	108.20
4	AD	62	C	N3-C4-C5	-7.13	119.05	121.90
25	BA	69	G	N3-C4-C5	-7.13	125.04	128.60
26	BB	310	A	C4-C5-N7	-7.13	107.14	110.70
26	BB	472	A	N9-C4-C5	7.13	108.65	105.80
26	BB	2272	U	O4'-C1'-N1	7.13	113.90	108.20
26	BB	2468	A	C8-N9-C4	7.13	108.65	105.80
26	BB	2509	G	C4-C5-N7	-7.13	107.95	110.80
26	BB	2515	C	C5'-C4'-O4'	7.13	117.65	109.10
30	BF	122	GLU	OE1-CD-OE2	7.13	131.85	123.30
1	AA	1055	A	C6-N1-C2	-7.12	114.33	118.60
1	AA	1280	A	C6-N1-C2	7.12	122.88	118.60
1	AA	1487	G	N7-C8-N9	7.12	116.66	113.10
26	BB	1578	U	C2-N3-C4	-7.12	122.72	127.00
26	BB	2254	C	N3-C2-O2	-7.12	116.91	121.90
1	AA	11	G	C6-N1-C2	-7.12	120.83	125.10
1	AA	699	C	C5-C6-N1	7.12	124.56	121.00
26	BB	370	G	N7-C8-N9	7.12	116.66	113.10
26	BB	570	G	C1'-O4'-C4'	-7.12	104.20	109.90
26	BB	694	U	C6-N1-C2	7.12	125.27	121.00
26	BB	914	G	N3-C4-C5	-7.12	125.04	128.60
26	BB	2280	G	C5-C6-O6	7.12	132.87	128.60
26	BB	2729	G	N3-C2-N2	-7.12	114.91	119.90
1	AA	322	C	N3-C4-C5	-7.12	119.05	121.90
1	AA	1264	U	N3-C2-O2	-7.12	117.22	122.20
1	AA	1301	U	C4-C5-C6	7.12	123.97	119.70
26	BB	471	A	O4'-C1'-N9	7.12	113.90	108.20
29	BE	82	PHE	CB-CG-CD1	-7.12	115.81	120.80
1	AA	302	G	C1'-O4'-C4'	-7.12	104.20	109.90
1	AA	304	U	C5'-C4'-C3'	-7.12	104.61	116.00
2	AB	34	C	N3-C2-O2	-7.12	116.92	121.90
26	BB	153	U	C2-N3-C4	-7.12	122.73	127.00
26	BB	179	C	C2-N3-C4	7.12	123.46	119.90
26	BB	1360	G	C8-N9-C4	-7.12	103.55	106.40
1	AA	165	G	N1-C6-O6	-7.12	115.63	119.90
1	AA	456	A	C5-C6-N6	-7.12	118.00	123.70
1	AA	465	A	O4'-C1'-C2'	-7.12	98.68	105.80
1	AA	541	G	N3-C2-N2	-7.12	114.92	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1015	G	C5-C6-O6	-7.12	124.33	128.60
1	AA	1261	A	C1'-O4'-C4'	-7.12	104.20	109.90
1	AA	1340	A	C4-C5-N7	-7.12	107.14	110.70
1	AA	1354	U	N3-C2-O2	-7.12	117.22	122.20
2	AB	59	G	C3'-C2'-C1'	7.12	107.19	101.50
26	BB	770	G	O4'-C1'-N9	7.12	113.89	108.20
26	BB	1296	G	C6-C5-N7	-7.12	126.13	130.40
26	BB	2089	C	C6-N1-C2	7.12	123.15	120.30
26	BB	2567	G	N1-C6-O6	-7.12	115.63	119.90
27	BC	118	PRO	N-CA-CB	7.12	111.84	103.30
1	AA	1055	A	N1-C2-N3	7.12	132.86	129.30
1	AA	1413	A	C8-N9-C4	-7.12	102.95	105.80
16	AP	69	ARG	NE-CZ-NH2	7.12	123.86	120.30
26	BB	140	C	N3-C4-C5	-7.12	119.05	121.90
26	BB	246	C	C1'-O4'-C4'	7.12	115.59	109.90
26	BB	532	A	N1-C2-N3	7.12	132.86	129.30
1	AA	43	C	N3-C4-N4	7.12	122.98	118.00
1	AA	779	C	C5-C4-N4	-7.12	115.22	120.20
1	AA	1102	A	N1-C2-N3	-7.12	125.74	129.30
1	AA	1487	G	C8-N9-C4	-7.12	103.55	106.40
26	BB	181	A	N1-C6-N6	7.12	122.87	118.60
26	BB	544	C	N1-C2-O2	-7.12	114.63	118.90
26	BB	753	A	C4'-C3'-C2'	-7.12	95.48	102.60
26	BB	898	C	C1'-O4'-C4'	-7.12	104.21	109.90
26	BB	1051	G	C6-N1-C2	-7.12	120.83	125.10
26	BB	1063	G	N3-C2-N2	-7.12	114.92	119.90
26	BB	1098	A	C6-C5-N7	7.12	137.28	132.30
26	BB	1478	G	C3'-C2'-C1'	7.12	107.19	101.50
31	BG	149	ARG	NE-CZ-NH1	-7.12	116.74	120.30
39	BO	68	PHE	CG-CD1-CE1	-7.12	112.97	120.80
47	BW	63	ALA	CB-CA-C	7.12	120.77	110.10
1	AA	334	C	N1-C1'-C2'	-7.11	104.17	112.00
1	AA	1195	C	C5'-C4'-O4'	7.11	117.64	109.10
1	AA	1343	G	O4'-C1'-N9	7.11	113.89	108.20
1	AA	1456	A	P-O3'-C3'	7.11	128.24	119.70
3	AC	58	C	N1-C2-N3	7.11	124.18	119.20
25	BA	25	U	N3-C2-O2	-7.11	117.22	122.20
26	BB	102	U	C2-N3-C4	-7.11	122.73	127.00
26	BB	341	C	C4'-C3'-C2'	-7.11	95.49	102.60
26	BB	654	A	C5-C6-N6	-7.11	118.01	123.70
26	BB	734	A	C2-N3-C4	7.11	114.16	110.60
26	BB	794	A	C5'-C4'-O4'	7.11	117.64	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	894	U	N1-C1'-C2'	-7.11	104.18	112.00
26	BB	1324	G	N9-C4-C5	7.11	108.25	105.40
26	BB	1401	G	C8-N9-C4	-7.11	103.56	106.40
26	BB	1421	G	C6-C5-N7	-7.11	126.13	130.40
26	BB	2274	A	O4'-C1'-N9	7.11	113.89	108.20
26	BB	2377	A	C5-C6-N6	-7.11	118.01	123.70
26	BB	2744	G	C3'-C2'-C1'	7.11	107.19	101.50
1	AA	1247	U	O4'-C1'-N1	7.11	113.89	108.20
1	AA	1427	C	N3-C4-C5	7.11	124.75	121.90
26	BB	510	C	P-O3'-C3'	7.11	128.23	119.70
26	BB	610	C	C5'-C4'-O4'	7.11	117.64	109.10
26	BB	2080	A	N7-C8-N9	7.11	117.36	113.80
1	AA	1090	U	N1-C1'-C2'	-7.11	104.18	112.00
1	AA	1482	G	N9-C4-C5	7.11	108.24	105.40
1	AA	1512	U	N3-C4-C5	-7.11	110.33	114.60
26	BB	193	U	N1-C2-N3	7.11	119.17	114.90
26	BB	297	G	C8-N9-C4	-7.11	103.56	106.40
26	BB	549	G	C8-N9-C4	7.11	109.24	106.40
26	BB	1239	G	N3-C4-N9	7.11	130.27	126.00
26	BB	1381	G	C6-N1-C2	-7.11	120.83	125.10
26	BB	2184	A	N9-C4-C5	-7.11	102.96	105.80
26	BB	2340	A	N7-C8-N9	7.11	117.36	113.80
1	AA	1028	C	N1-C2-N3	-7.11	114.22	119.20
1	AA	1338	G	O4'-C1'-N9	7.11	113.89	108.20
26	BB	142	A	C8-N9-C4	-7.11	102.96	105.80
26	BB	775	G	C6-N1-C2	-7.11	120.83	125.10
26	BB	1865	U	C1'-O4'-C4'	-7.11	104.21	109.90
26	BB	2650	U	N3-C4-O4	7.11	124.38	119.40
1	AA	894	G	N9-C4-C5	7.11	108.24	105.40
1	AA	942	G	C6-C5-N7	-7.11	126.14	130.40
1	AA	1475	G	C1'-O4'-C4'	-7.11	104.21	109.90
26	BB	271	G	C8-N9-C1'	7.11	136.24	127.00
26	BB	337	C	N3-C4-N4	7.11	122.97	118.00
26	BB	416	U	N3-C4-O4	7.11	124.38	119.40
26	BB	430	A	P-O3'-C3'	7.11	128.23	119.70
26	BB	433	C	C6-N1-C2	-7.11	117.46	120.30
26	BB	454	A	C6-N1-C2	7.11	122.86	118.60
26	BB	593	U	N3-C4-O4	7.11	124.38	119.40
26	BB	1156	A	N9-C4-C5	7.11	108.64	105.80
26	BB	1764	C	C3'-C2'-C1'	-7.11	95.81	101.50
26	BB	2260	C	C5'-C4'-C3'	-7.11	104.63	116.00
1	AA	296	U	C3'-C2'-C1'	-7.11	95.82	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	743	A	N1-C6-N6	-7.11	114.34	118.60
1	AA	1047	G	C2-N3-C4	7.11	115.45	111.90
1	AA	1231	G	O4'-C1'-N9	7.11	113.88	108.20
1	AA	1416	G	C5-C6-N1	7.11	115.05	111.50
1	AA	1527	U	N3-C4-O4	7.11	124.37	119.40
26	BB	296	U	N1-C2-N3	7.11	119.16	114.90
26	BB	1441	G	N9-C4-C5	-7.11	102.56	105.40
26	BB	1837	C	N1-C2-O2	7.11	123.16	118.90
26	BB	2006	C	N3-C2-O2	-7.11	116.93	121.90
26	BB	2143	C	P-O3'-C3'	7.11	128.23	119.70
26	BB	2250	G	N7-C8-N9	7.11	116.65	113.10
25	BA	26	C	C5-C4-N4	-7.10	115.23	120.20
26	BB	962	G	O4'-C1'-N9	7.10	113.88	108.20
26	BB	1969	A	N7-C8-N9	-7.10	110.25	113.80
1	AA	710	G	C6-N1-C2	-7.10	120.84	125.10
1	AA	760	G	C6-C5-N7	7.10	134.66	130.40
1	AA	837	U	N3-C4-C5	7.10	118.86	114.60
26	BB	454	A	C1'-O4'-C4'	7.10	115.58	109.90
1	AA	450	G	C1'-O4'-C4'	-7.10	104.22	109.90
26	BB	466	A	C4-C5-C6	7.10	120.55	117.00
26	BB	718	A	C4-C5-C6	-7.10	113.45	117.00
26	BB	1488	C	N3-C2-O2	-7.10	116.93	121.90
26	BB	2050	C	C4-C5-C6	-7.10	113.85	117.40
26	BB	2151	U	C5-C4-O4	-7.10	121.64	125.90
26	BB	2684	U	C5-C6-N1	-7.10	119.15	122.70
1	AA	348	G	C5-C6-N1	7.10	115.05	111.50
1	AA	1158	C	N3-C4-N4	7.10	122.97	118.00
1	AA	1330	U	C3'-C2'-C1'	7.10	107.18	101.50
1	AA	1475	G	N3-C2-N2	-7.10	114.93	119.90
26	BB	874	G	C4'-C3'-C2'	-7.10	95.50	102.60
26	BB	1251	C	N3-C4-C5	-7.10	119.06	121.90
26	BB	2035	G	C5-C6-N1	7.10	115.05	111.50
1	AA	31	G	C5-N7-C8	-7.10	100.75	104.30
25	BA	62	C	C6-N1-C2	-7.10	117.46	120.30
26	BB	548	G	N3-C2-N2	-7.10	114.93	119.90
26	BB	1607	C	C5-C4-N4	-7.10	115.23	120.20
26	BB	2644	G	C2-N3-C4	-7.10	108.35	111.90
26	BB	2831	G	N3-C4-C5	-7.10	125.05	128.60
1	AA	1169	A	N1-C6-N6	7.10	122.86	118.60
26	BB	1080	A	C6-C5-N7	-7.10	127.33	132.30
26	BB	1424	G	O4'-C1'-N9	7.10	113.88	108.20
26	BB	2072	C	C1'-O4'-C4'	-7.10	104.22	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2308	G	C5-C6-N1	-7.10	107.95	111.50
1	AA	42	G	C6-N1-C2	7.09	129.36	125.10
1	AA	1147	C	C5-C4-N4	-7.09	115.23	120.20
15	AO	30	ARG	NE-CZ-NH1	7.09	123.85	120.30
26	BB	26	G	N3-C4-C5	-7.09	125.05	128.60
26	BB	565	C	N3-C2-O2	-7.09	116.94	121.90
26	BB	919	U	N3-C4-C5	-7.09	110.34	114.60
26	BB	1122	G	N9-C4-C5	7.09	108.24	105.40
26	BB	1161	C	C2-N3-C4	7.09	123.45	119.90
1	AA	146	G	C5-N7-C8	-7.09	100.75	104.30
2	AB	44	G	C4-C5-N7	-7.09	107.96	110.80
1	AA	197	A	C5-C6-N1	7.09	121.25	117.70
1	AA	372	C	P-O3'-C3'	7.09	128.21	119.70
1	AA	1039	G	C4-C5-N7	7.09	113.64	110.80
25	BA	52	A	O4'-C1'-N9	7.09	113.87	108.20
26	BB	11	C	C4'-C3'-C2'	-7.09	95.51	102.60
26	BB	1409	U	N1-C1'-C2'	-7.09	104.20	112.00
26	BB	2657	A	O4'-C4'-C3'	7.09	111.77	106.10
26	BB	2879	A	C5-C6-N1	7.09	121.25	117.70
1	AA	401	C	N3-C4-N4	7.09	122.96	118.00
1	AA	816	A	C6-N1-C2	7.09	122.85	118.60
1	AA	872	A	C4-C5-N7	-7.09	107.16	110.70
1	AA	1183	U	N1-C2-O2	7.09	127.76	122.80
25	BA	83	G	C5'-C4'-O4'	7.09	117.61	109.10
26	BB	705	A	C4-C5-C6	-7.09	113.45	117.00
26	BB	1277	G	C8-N9-C4	-7.09	103.56	106.40
26	BB	2442	C	O4'-C1'-N1	7.09	113.87	108.20
26	BB	2662	A	C2-N3-C4	-7.09	107.06	110.60
26	BB	2675	A	C8-N9-C4	-7.09	102.96	105.80
1	AA	42	G	N3-C4-C5	-7.09	125.06	128.60
1	AA	409	U	C2-N3-C4	-7.09	122.75	127.00
1	AA	639	G	N3-C2-N2	-7.09	114.94	119.90
1	AA	818	G	C6-C5-N7	-7.09	126.15	130.40
1	AA	1234	C	N3-C4-C5	-7.09	119.06	121.90
26	BB	535	G	N9-C1'-C2'	-7.09	104.20	112.00
26	BB	2055	C	C2-N3-C4	7.09	123.44	119.90
26	BB	2199	A	O4'-C4'-C3'	7.09	111.77	106.10
26	BB	2646	C	N1-C2-N3	-7.09	114.24	119.20
1	AA	286	C	C4-C5-C6	-7.09	113.86	117.40
1	AA	626	G	C5-N7-C8	-7.09	100.76	104.30
1	AA	945	G	N7-C8-N9	-7.09	109.56	113.10
1	AA	1252	A	C3'-C2'-C1'	7.09	107.17	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	14	A	N1-C6-N6	-7.09	114.35	118.60
3	AC	40	G	N7-C8-N9	7.09	116.64	113.10
4	AD	24	C	C6-N1-C2	-7.09	117.47	120.30
25	BA	81	G	C4-C5-N7	7.09	113.64	110.80
1	AA	577	G	C2-N3-C4	7.08	115.44	111.90
26	BB	832	U	C5'-C4'-O4'	7.08	117.60	109.10
26	BB	2371	G	C6-C5-N7	7.08	134.65	130.40
1	AA	198	G	O4'-C4'-C3'	-7.08	96.92	104.00
1	AA	677	U	O4'-C1'-N1	7.08	113.87	108.20
1	AA	806	C	N3-C4-N4	7.08	122.96	118.00
1	AA	1331	G	C6-C5-N7	-7.08	126.15	130.40
1	AA	1442	G	C5-N7-C8	7.08	107.84	104.30
25	BA	20	G	C8-N9-C4	-7.08	103.57	106.40
26	BB	668	A	N1-C2-N3	7.08	132.84	129.30
26	BB	710	U	N3-C4-C5	-7.08	110.35	114.60
26	BB	2201	G	C8-N9-C1'	7.08	136.21	127.00
26	BB	2363	G	C3'-C2'-C1'	-7.08	95.83	101.50
26	BB	2408	U	N1-C2-N3	7.08	119.15	114.90
39	BO	103	TYR	CG-CD1-CE1	-7.08	115.63	121.30
1	AA	106	C	C2-N3-C4	7.08	123.44	119.90
1	AA	198	G	N3-C4-N9	7.08	130.25	126.00
1	AA	767	A	C2-N3-C4	7.08	114.14	110.60
1	AA	850	U	C4-C5-C6	7.08	123.95	119.70
1	AA	1217	C	C4-C5-C6	-7.08	113.86	117.40
26	BB	581	C	O4'-C1'-N1	7.08	113.86	108.20
26	BB	613	A	C6-C5-N7	7.08	137.26	132.30
26	BB	690	G	C4-C5-C6	7.08	123.05	118.80
26	BB	742	A	N1-C2-N3	-7.08	125.76	129.30
26	BB	1522	A	C6-C5-N7	7.08	137.26	132.30
26	BB	2675	A	N3-C4-C5	-7.08	121.84	126.80
26	BB	289	G	N9-C4-C5	7.08	108.23	105.40
26	BB	2015	A	C5-C6-N1	7.08	121.24	117.70
1	AA	725	G	C5-C6-O6	-7.08	124.35	128.60
25	BA	64	G	C5-N7-C8	-7.08	100.76	104.30
26	BB	334	C	C3'-C2'-C1'	7.08	107.16	101.50
26	BB	855	G	N1-C2-N3	7.08	128.15	123.90
26	BB	1138	G	N7-C8-N9	7.08	116.64	113.10
26	BB	2684	U	O4'-C1'-N1	7.08	113.86	108.20
26	BB	2856	A	C6-N1-C2	-7.08	114.35	118.60
1	AA	568	G	C8-N9-C4	-7.08	103.57	106.40
1	AA	865	A	N9-C4-C5	7.08	108.63	105.80
26	BB	905	A	C5'-C4'-C3'	-7.08	104.68	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1580	A	C5-C6-N1	7.08	121.24	117.70
26	BB	1716	U	N3-C4-O4	7.08	124.35	119.40
1	AA	67	C	C4-C5-C6	-7.08	113.86	117.40
1	AA	376	G	N3-C4-N9	-7.08	121.75	126.00
1	AA	581	G	N3-C2-N2	7.08	124.85	119.90
1	AA	901	A	N3-C4-C5	-7.08	121.85	126.80
1	AA	1212	U	O4'-C1'-N1	7.08	113.86	108.20
26	BB	178	G	N9-C1'-C2'	-7.08	104.22	112.00
26	BB	535	G	O4'-C1'-N9	7.08	113.86	108.20
26	BB	995	C	N3-C4-C5	-7.08	119.07	121.90
26	BB	1073	A	N9-C1'-C2'	-7.08	104.22	112.00
26	BB	1288	G	N9-C4-C5	7.08	108.23	105.40
26	BB	1567	G	N3-C4-C5	-7.08	125.06	128.60
26	BB	1659	G	N1-C2-N2	7.08	122.57	116.20
26	BB	2002	G	O4'-C1'-N9	7.08	113.86	108.20
26	BB	2259	U	C2-N3-C4	-7.08	122.75	127.00
1	AA	75	G	C5-C6-N1	-7.07	107.96	111.50
1	AA	273	U	C2-N3-C4	-7.07	122.76	127.00
1	AA	540	G	O4'-C1'-N9	7.07	113.86	108.20
26	BB	464	U	C4'-C3'-C2'	7.07	109.67	102.60
26	BB	706	A	C5-N7-C8	7.07	107.44	103.90
26	BB	1619	G	C6-N1-C2	-7.07	120.86	125.10
26	BB	2881	U	N1-C2-O2	-7.07	117.85	122.80
1	AA	1047	G	N1-C6-O6	7.07	124.14	119.90
26	BB	1137	G	C8-N9-C4	-7.07	103.57	106.40
26	BB	2286	G	C5-C6-O6	-7.07	124.36	128.60
26	BB	2876	G	C8-N9-C4	-7.07	103.57	106.40
1	AA	111	G	N7-C8-N9	7.07	116.64	113.10
1	AA	505	G	N1-C6-O6	-7.07	115.66	119.90
1	AA	1266	G	N7-C8-N9	7.07	116.64	113.10
25	BA	98	G	C5-N7-C8	-7.07	100.77	104.30
26	BB	789	A	C5'-C4'-O4'	7.07	117.59	109.10
26	BB	1126	A	C5-C6-N1	7.07	121.23	117.70
26	BB	1384	A	C5'-C4'-O4'	7.07	117.58	109.10
26	BB	1705	A	C5-N7-C8	7.07	107.44	103.90
26	BB	1740	G	C6-C5-N7	-7.07	126.16	130.40
26	BB	53	A	C6-C5-N7	7.07	137.25	132.30
26	BB	1661	G	C4'-C3'-C2'	-7.07	95.53	102.60
1	AA	247	G	N1-C6-O6	7.07	124.14	119.90
1	AA	747	A	C4-C5-N7	-7.07	107.17	110.70
1	AA	1275	A	C4'-C3'-C2'	-7.07	95.53	102.60
2	AB	62	U	C5-C6-N1	-7.07	119.17	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	32	C	N3-C4-C5	-7.07	119.07	121.90
26	BB	2439	A	C4-C5-N7	-7.07	107.17	110.70
26	BB	2555	U	N3-C2-O2	-7.07	117.25	122.20
26	BB	2807	U	O4'-C1'-N1	7.07	113.85	108.20
26	BB	2833	U	O4'-C1'-N1	7.07	113.86	108.20
40	BP	8	ARG	NE-CZ-NH1	7.07	123.83	120.30
1	AA	415	A	C5-N7-C8	-7.07	100.37	103.90
1	AA	635	A	N7-C8-N9	7.07	117.33	113.80
1	AA	1306	A	C8-N9-C4	-7.07	102.97	105.80
1	AA	1473	G	C5'-C4'-O4'	7.07	117.58	109.10
2	AB	68	C	O4'-C1'-N1	7.07	113.85	108.20
26	BB	54	G	C8-N9-C4	-7.07	103.57	106.40
26	BB	68	G	P-O3'-C3'	7.07	128.18	119.70
26	BB	88	G	N1-C6-O6	-7.07	115.66	119.90
26	BB	150	U	O4'-C1'-N1	7.07	113.85	108.20
26	BB	291	G	N3-C4-N9	7.07	130.24	126.00
26	BB	527	C	C6-N1-C2	-7.07	117.47	120.30
26	BB	619	G	C2-N3-C4	7.07	115.43	111.90
26	BB	843	G	C5-C6-O6	-7.07	124.36	128.60
26	BB	951	C	C4-C5-C6	-7.07	113.87	117.40
26	BB	1057	A	O4'-C1'-N9	7.07	113.85	108.20
1	AA	941	G	C5-C6-N1	7.06	115.03	111.50
1	AA	1263	C	O4'-C1'-N1	7.06	113.85	108.20
1	AA	1511	G	C5-C6-N1	7.06	115.03	111.50
26	BB	596	U	C5-C4-O4	7.06	130.14	125.90
26	BB	1036	G	P-O3'-C3'	7.06	128.18	119.70
26	BB	1807	G	N3-C4-N9	7.06	130.24	126.00
26	BB	2113	U	C5'-C4'-O4'	7.06	117.58	109.10
26	BB	2470	G	N9-C4-C5	7.06	108.23	105.40
26	BB	2529	G	C6-N1-C2	-7.06	120.86	125.10
26	BB	2576	G	N9-C4-C5	7.06	108.22	105.40
1	AA	938	A	C5-N7-C8	7.06	107.43	103.90
16	AP	22	TYR	CB-CG-CD2	-7.06	116.76	121.00
26	BB	1339	G	C6-C5-N7	7.06	134.64	130.40
26	BB	1359	A	C4-C5-C6	-7.06	113.47	117.00
26	BB	1559	U	O4'-C1'-N1	7.06	113.85	108.20
26	BB	2282	G	C5-C6-N1	7.06	115.03	111.50
26	BB	2429	G	C4-C5-C6	7.06	123.04	118.80
26	BB	2650	U	O4'-C1'-N1	7.06	113.85	108.20
26	BB	2754	U	C6-N1-C2	-7.06	116.76	121.00
1	AA	858	G	C4-C5-N7	7.06	113.62	110.80
1	AA	1004	A	C5'-C4'-O4'	7.06	117.57	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	318	C	N1-C2-O2	7.06	123.14	118.90
26	BB	1237	A	C4'-C3'-C2'	-7.06	95.54	102.60
26	BB	1703	G	C2-N3-C4	7.06	115.43	111.90
26	BB	2565	A	C6-C5-N7	7.06	137.24	132.30
1	AA	791	G	C5-C6-N1	7.06	115.03	111.50
1	AA	1362	A	C3'-C2'-C1'	7.06	107.15	101.50
26	BB	440	C	C5-C6-N1	7.06	124.53	121.00
26	BB	677	A	C4-C5-N7	-7.06	107.17	110.70
26	BB	859	G	P-O3'-C3'	7.06	128.17	119.70
26	BB	996	A	N9-C1'-C2'	-7.06	104.23	112.00
26	BB	1144	A	C3'-C2'-C1'	7.06	107.15	101.50
26	BB	1204	A	C8-N9-C4	-7.06	102.98	105.80
26	BB	1426	G	N9-C4-C5	7.06	108.22	105.40
26	BB	1876	A	C5-C6-N1	-7.06	114.17	117.70
26	BB	2802	G	C8-N9-C4	-7.06	103.58	106.40
1	AA	580	C	N1-C2-O2	7.06	123.14	118.90
1	AA	876	C	C4'-C3'-C2'	-7.06	95.54	102.60
26	BB	140	C	N1-C2-N3	-7.06	114.26	119.20
26	BB	218	A	C8-N9-C4	-7.06	102.98	105.80
26	BB	233	A	C4-C5-N7	-7.06	107.17	110.70
26	BB	553	G	N9-C4-C5	7.06	108.22	105.40
26	BB	708	G	C6-N1-C2	-7.06	120.86	125.10
26	BB	2197	U	C6-N1-C2	-7.06	116.77	121.00
1	AA	317	U	C5-C4-O4	-7.06	121.67	125.90
1	AA	618	C	C1'-O4'-C4'	-7.06	104.25	109.90
26	BB	804	A	P-O3'-C3'	7.06	128.17	119.70
26	BB	825	A	O4'-C1'-N9	7.06	113.84	108.20
1	AA	567	G	C6-N1-C2	-7.05	120.87	125.10
1	AA	1077	G	N3-C4-C5	-7.05	125.07	128.60
1	AA	1270	G	N7-C8-N9	7.05	116.63	113.10
1	AA	1509	C	C6-N1-C2	-7.05	117.48	120.30
26	BB	757	G	C6-N1-C2	-7.05	120.87	125.10
26	BB	1271	G	N7-C8-N9	-7.05	109.57	113.10
26	BB	2272	U	C5'-C4'-O4'	7.05	117.57	109.10
26	BB	2633	G	O4'-C1'-N9	7.05	113.84	108.20
1	AA	675	A	C8-N9-C4	-7.05	102.98	105.80
1	AA	877	G	O4'-C1'-N9	7.05	113.84	108.20
1	AA	1236	A	N3-C4-C5	7.05	131.74	126.80
1	AA	1273	C	C4'-C3'-C2'	-7.05	95.55	102.60
26	BB	2396	G	C5-C6-O6	-7.05	124.37	128.60
1	AA	333	U	O4'-C1'-N1	7.05	113.84	108.20
1	AA	438	U	C4-C5-C6	7.05	123.93	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	858	G	N7-C8-N9	7.05	116.63	113.10
1	AA	1154	G	N3-C4-N9	7.05	130.23	126.00
1	AA	1386	G	N3-C2-N2	-7.05	114.96	119.90
2	AB	51	G	C5-C6-O6	-7.05	124.37	128.60
2	AB	71	C	N1-C2-O2	7.05	123.13	118.90
25	BA	5	U	C1'-O4'-C4'	-7.05	104.26	109.90
26	BB	294	A	C5'-C4'-O4'	7.05	117.56	109.10
26	BB	463	G	C4-C5-C6	7.05	123.03	118.80
26	BB	564	C	C5-C6-N1	-7.05	117.47	121.00
26	BB	1044	C	C3'-C2'-C1'	-7.05	95.86	101.50
26	BB	1679	A	C6-C5-N7	7.05	137.24	132.30
26	BB	2890	G	C6-N1-C2	7.05	129.33	125.10
1	AA	852	G	N9-C4-C5	-7.05	102.58	105.40
26	BB	528	A	N9-C4-C5	7.05	108.62	105.80
26	BB	535	G	C5-C6-O6	-7.05	124.37	128.60
26	BB	770	G	N7-C8-N9	7.05	116.62	113.10
26	BB	800	A	P-O3'-C3'	7.05	128.16	119.70
26	BB	1009	A	N1-C2-N3	-7.05	125.78	129.30
26	BB	1894	C	C4-C5-C6	-7.05	113.88	117.40
40	BP	64	ARG	NE-CZ-NH1	-7.05	116.78	120.30
1	AA	479	U	C4-C5-C6	7.05	123.93	119.70
26	BB	1270	C	C3'-C2'-C1'	7.05	107.14	101.50
26	BB	1453	A	N9-C4-C5	7.05	108.62	105.80
26	BB	1762	A	N1-C6-N6	7.05	122.83	118.60
1	AA	350	G	C5-C6-N1	7.05	115.02	111.50
1	AA	654	G	C8-N9-C4	-7.05	103.58	106.40
1	AA	1077	G	C4-C5-N7	-7.05	107.98	110.80
1	AA	1217	C	N3-C4-C5	-7.05	119.08	121.90
1	AA	1307	U	C5'-C4'-O4'	7.05	117.56	109.10
1	AA	1341	U	C4-C5-C6	7.05	123.93	119.70
2	AB	12	U	P-O3'-C3'	7.05	128.16	119.70
26	BB	105	C	C5-C4-N4	-7.05	115.27	120.20
26	BB	744	U	C4'-C3'-C2'	-7.05	95.55	102.60
26	BB	788	A	C5-N7-C8	-7.05	100.38	103.90
26	BB	1052	C	N3-C4-C5	7.05	124.72	121.90
26	BB	1220	G	C8-N9-C4	-7.05	103.58	106.40
26	BB	1231	U	C4'-C3'-C2'	-7.05	95.55	102.60
26	BB	1420	A	N9-C1'-C2'	-7.05	104.25	112.00
26	BB	1553	A	C6-C5-N7	7.05	137.23	132.30
26	BB	2235	G	C5-C6-O6	7.05	132.83	128.60
26	BB	2550	G	C2-N3-C4	7.05	115.42	111.90
26	BB	2655	G	O4'-C1'-N9	7.05	113.84	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	56	U	N3-C2-O2	-7.04	117.27	122.20
1	AA	702	A	N1-C6-N6	-7.04	114.37	118.60
26	BB	889	C	C2-N3-C4	7.04	123.42	119.90
26	BB	1338	G	N3-C2-N2	-7.04	114.97	119.90
1	AA	393	A	N1-C6-N6	-7.04	114.37	118.60
1	AA	854	U	C5'-C4'-O4'	-7.04	100.65	109.10
1	AA	1252	A	C4'-C3'-C2'	-7.04	95.56	102.60
26	BB	88	G	N1-C2-N2	-7.04	109.86	116.20
26	BB	1295	C	O4'-C1'-N1	7.04	113.83	108.20
26	BB	1478	G	C2-N3-C4	7.04	115.42	111.90
26	BB	2850	A	N1-C2-N3	-7.04	125.78	129.30
1	AA	646	G	C8-N9-C4	-7.04	103.58	106.40
1	AA	1410	A	N1-C6-N6	-7.04	114.38	118.60
25	BA	41	G	C8-N9-C4	-7.04	103.58	106.40
26	BB	326	G	C6-C5-N7	7.04	134.62	130.40
26	BB	1575	C	N3-C2-O2	-7.04	116.97	121.90
26	BB	2387	U	C2-N3-C4	-7.04	122.78	127.00
26	BB	2782	G	N3-C4-C5	-7.04	125.08	128.60
1	AA	30	U	C5-C6-N1	-7.04	119.18	122.70
1	AA	465	A	C5-C6-N1	7.04	121.22	117.70
25	BA	109	A	C5'-C4'-O4'	7.04	117.55	109.10
26	BB	273	G	C2-N3-C4	7.04	115.42	111.90
26	BB	1256	G	C3'-C2'-C1'	-7.04	95.87	101.50
26	BB	1745	A	N1-C2-N3	-7.04	125.78	129.30
1	AA	419	C	N3-C4-N4	7.04	122.93	118.00
1	AA	924	C	N3-C2-O2	-7.04	116.97	121.90
26	BB	656	G	N3-C4-N9	-7.04	121.78	126.00
26	BB	1807	G	N9-C4-C5	7.04	108.22	105.40
26	BB	2314	A	N3-C4-C5	-7.04	121.87	126.80
26	BB	2367	G	N3-C4-C5	-7.04	125.08	128.60
26	BB	2481	G	O4'-C1'-N9	7.04	113.83	108.20
1	AA	262	A	C6-N1-C2	7.04	122.82	118.60
1	AA	327	A	N1-C2-N3	-7.04	125.78	129.30
1	AA	1490	U	C1'-O4'-C4'	-7.04	104.27	109.90
25	BA	46	A	C5-N7-C8	7.04	107.42	103.90
26	BB	2726	A	N7-C8-N9	7.04	117.32	113.80
1	AA	330	C	P-O3'-C3'	7.04	128.14	119.70
1	AA	337	G	C2-N3-C4	-7.04	108.38	111.90
1	AA	346	G	N3-C4-N9	7.04	130.22	126.00
1	AA	371	A	C8-N9-C4	-7.04	102.99	105.80
1	AA	752	G	C5-C6-O6	7.04	132.82	128.60
1	AA	827	U	N1-C2-O2	7.04	127.72	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	852	G	O4'-C1'-N9	7.04	113.83	108.20
2	AB	48	U	C1'-O4'-C4'	-7.04	104.27	109.90
13	AM	43	PRO	N-CA-CB	7.04	111.74	103.30
26	BB	418	C	C6-N1-C2	7.04	123.11	120.30
26	BB	791	C	C5-C4-N4	7.04	125.12	120.20
26	BB	848	C	N3-C2-O2	-7.04	116.97	121.90
26	BB	1168	G	C5-C6-N1	7.04	115.02	111.50
26	BB	1610	A	O4'-C1'-N9	7.04	113.83	108.20
26	BB	2173	A	C1'-O4'-C4'	-7.04	104.27	109.90
1	AA	386	C	N1-C2-O2	7.03	123.12	118.90
1	AA	424	G	O4'-C1'-N9	7.03	113.83	108.20
1	AA	663	A	C1'-O4'-C4'	-7.03	104.27	109.90
1	AA	771	G	C8-N9-C4	-7.03	103.59	106.40
1	AA	1355	G	C4-C5-N7	7.03	113.61	110.80
1	AA	1513	A	C6-N1-C2	7.03	122.82	118.60
26	BB	294	A	C5-N7-C8	7.03	107.42	103.90
26	BB	296	U	N3-C4-C5	-7.03	110.38	114.60
26	BB	808	G	C2-N3-C4	-7.03	108.38	111.90
26	BB	1385	A	P-O3'-C3'	7.03	128.14	119.70
26	BB	1628	G	C4-C5-N7	7.03	113.61	110.80
26	BB	1950	G	C5-C6-O6	7.03	132.82	128.60
26	BB	2160	C	N1-C2-O2	7.03	123.12	118.90
26	BB	2291	U	O4'-C1'-N1	7.03	113.83	108.20
1	AA	1156	G	C4-C5-C6	7.03	123.02	118.80
26	BB	1380	G	N1-C2-N2	-7.03	109.87	116.20
26	BB	1719	G	C4-C5-N7	-7.03	107.99	110.80
26	BB	1097	U	C5-C6-N1	-7.03	119.19	122.70
26	BB	1720	U	P-O3'-C3'	7.03	128.14	119.70
26	BB	2525	G	C8-N9-C4	-7.03	103.59	106.40
34	BJ	130	THR	CA-CB-CG2	7.03	122.24	112.40
1	AA	349	A	C5-C6-N6	-7.03	118.08	123.70
1	AA	720	C	O4'-C4'-C3'	7.03	111.72	106.10
26	BB	267	C	C1'-O4'-C4'	7.03	115.52	109.90
26	BB	597	G	C5'-C4'-O4'	7.03	117.53	109.10
26	BB	710	U	N1-C1'-C2'	-7.03	104.27	112.00
1	AA	32	A	O4'-C1'-N9	7.03	113.82	108.20
1	AA	53	A	N9-C4-C5	7.03	108.61	105.80
1	AA	96	U	C4-C5-C6	7.03	123.92	119.70
1	AA	362	G	C2-N3-C4	-7.03	108.39	111.90
1	AA	481	G	N9-C4-C5	7.03	108.21	105.40
26	BB	1040	A	C1'-O4'-C4'	-7.03	104.28	109.90
26	BB	1205	A	C2-N3-C4	7.03	114.11	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1378	A	C6-C5-N7	7.03	137.22	132.30
26	BB	1425	G	C6-C5-N7	-7.03	126.18	130.40
26	BB	1441	G	C5'-C4'-O4'	7.03	117.53	109.10
26	BB	1522	A	C8-N9-C4	7.03	108.61	105.80
26	BB	2051	A	N9-C4-C5	7.03	108.61	105.80
26	BB	2171	A	N9-C4-C5	-7.03	102.99	105.80
1	AA	208	U	N1-C2-N3	7.03	119.11	114.90
1	AA	558	G	C6-C5-N7	-7.03	126.18	130.40
1	AA	980	C	P-O3'-C3'	7.03	128.13	119.70
1	AA	1037	C	C3'-C2'-C1'	7.03	107.12	101.50
1	AA	1323	G	O4'-C1'-N9	7.03	113.82	108.20
1	AA	1334	G	C8-N9-C4	-7.03	103.59	106.40
26	BB	2	G	C2-N3-C4	7.03	115.41	111.90
26	BB	340	A	C5'-C4'-O4'	7.03	117.53	109.10
26	BB	611	C	C5-C4-N4	-7.03	115.28	120.20
26	BB	997	G	N7-C8-N9	7.03	116.61	113.10
26	BB	1431	A	C5-C6-N1	7.03	121.21	117.70
26	BB	1868	C	C3'-C2'-C1'	7.03	107.12	101.50
26	BB	1908	C	C6-N1-C2	-7.03	117.49	120.30
26	BB	2712	C	C5-C6-N1	7.03	124.51	121.00
1	AA	537	G	N1-C6-O6	7.02	124.11	119.90
1	AA	1468	A	C8-N9-C4	-7.02	102.99	105.80
26	BB	118	A	C6-C5-N7	7.02	137.22	132.30
26	BB	580	U	P-O3'-C3'	7.02	128.13	119.70
26	BB	2191	A	N3-C4-C5	7.02	131.72	126.80
26	BB	2356	U	C5-C6-N1	-7.02	119.19	122.70
26	BB	2489	U	C3'-C2'-C1'	7.02	107.12	101.50
26	BB	2722	G	C1'-O4'-C4'	7.02	115.52	109.90
1	AA	129	A	N1-C2-N3	7.02	132.81	129.30
1	AA	961	U	N3-C2-O2	-7.02	117.28	122.20
1	AA	1108	G	N3-C4-N9	7.02	130.21	126.00
1	AA	1312	G	N3-C4-N9	7.02	130.21	126.00
26	BB	143	C	C5'-C4'-O4'	7.02	117.53	109.10
26	BB	451	U	C4-C5-C6	7.02	123.91	119.70
26	BB	1277	G	O4'-C4'-C3'	-7.02	96.98	104.00
26	BB	1371	G	C4-C5-N7	-7.02	107.99	110.80
26	BB	1451	C	O4'-C4'-C3'	7.02	111.72	106.10
26	BB	1466	U	C3'-C2'-C1'	-7.02	95.88	101.50
26	BB	1907	G	O4'-C1'-C2'	-7.02	98.78	105.80
26	BB	2282	G	C2-N3-C4	7.02	115.41	111.90
26	BB	2295	C	N3-C4-N4	7.02	122.92	118.00
26	BB	2411	A	C6-C5-N7	7.02	137.22	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	BZ	73	ARG	NE-CZ-NH2	7.02	123.81	120.30
26	BB	563	A	C4-C5-N7	-7.02	107.19	110.70
26	BB	2887	A	C5-C6-N1	7.02	121.21	117.70
33	BI	98	ASP	CB-CG-OD1	-7.02	111.98	118.30
1	AA	414	A	C2-N3-C4	-7.02	107.09	110.60
1	AA	459	A	N9-C4-C5	-7.02	102.99	105.80
1	AA	789	U	C4'-C3'-C2'	7.02	109.62	102.60
2	AB	29	G	N9-C4-C5	7.02	108.21	105.40
3	AC	35	G	C5-C6-O6	7.02	132.81	128.60
26	BB	69	C	N3-C4-N4	7.02	122.91	118.00
26	BB	131	A	O4'-C1'-N9	7.02	113.82	108.20
26	BB	233	A	N3-C4-C5	-7.02	121.89	126.80
26	BB	629	G	C6-N1-C2	-7.02	120.89	125.10
26	BB	834	G	C1'-O4'-C4'	7.02	115.52	109.90
26	BB	1988	G	C4'-C3'-C2'	-7.02	95.58	102.60
26	BB	2561	U	C5-C6-N1	-7.02	119.19	122.70
26	BB	2638	G	P-O3'-C3'	7.02	128.12	119.70
1	AA	404	G	C4'-C3'-C2'	-7.02	95.58	102.60
1	AA	844	G	C4'-C3'-C2'	-7.02	95.58	102.60
1	AA	1238	A	C5-C6-N6	7.02	129.31	123.70
1	AA	1426	G	N1-C6-O6	7.02	124.11	119.90
25	BA	41	G	C6-C5-N7	-7.02	126.19	130.40
26	BB	12	U	C5-C4-O4	-7.02	121.69	125.90
26	BB	620	G	C1'-O4'-C4'	-7.02	104.28	109.90
26	BB	2215	C	N3-C4-N4	7.02	122.91	118.00
26	BB	2520	C	N3-C2-O2	-7.02	116.99	121.90
58	B7	20	ASP	CB-CG-OD1	-7.02	111.98	118.30
1	AA	1062	U	C1'-O4'-C4'	-7.02	104.29	109.90
15	AO	98	ARG	NE-CZ-NH2	-7.02	116.79	120.30
26	BB	2690	U	C5'-C4'-C3'	-7.02	104.77	116.00
1	AA	259	G	N9-C1'-C2'	-7.01	104.28	112.00
1	AA	358	U	N3-C2-O2	-7.01	117.29	122.20
1	AA	1234	C	C6-N1-C2	-7.01	117.49	120.30
1	AA	1335	U	O4'-C1'-N1	7.01	113.81	108.20
25	BA	46	A	O4'-C4'-C3'	7.01	111.71	106.10
25	BA	100	G	C6-N1-C2	-7.01	120.89	125.10
26	BB	52	A	N3-C4-N9	7.01	133.01	127.40
26	BB	326	G	N3-C2-N2	-7.01	114.99	119.90
26	BB	760	G	N3-C4-C5	-7.01	125.09	128.60
26	BB	1253	A	C5-N7-C8	7.01	107.41	103.90
1	AA	233	C	C2-N3-C4	-7.01	116.39	119.90
26	BB	619	G	C5-C6-O6	-7.01	124.39	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2124	G	N7-C8-N9	7.01	116.61	113.10
1	AA	347	G	N1-C6-O6	-7.01	115.69	119.90
1	AA	421	U	N1-C1'-C2'	-7.01	104.29	112.00
1	AA	892	A	O4'-C1'-C2'	7.01	113.91	107.60
1	AA	1527	U	C4'-C3'-C2'	-7.01	95.59	102.60
15	AO	109	ARG	NE-CZ-NH2	7.01	123.81	120.30
26	BB	372	G	N7-C8-N9	7.01	116.61	113.10
26	BB	1020	A	C5-C6-N1	7.01	121.20	117.70
26	BB	1190	G	C4'-C3'-C2'	-7.01	95.59	102.60
26	BB	1598	A	C5'-C4'-O4'	7.01	117.51	109.10
26	BB	2683	C	C2-N3-C4	7.01	123.41	119.90
1	AA	468	A	O4'-C1'-N9	7.01	113.81	108.20
1	AA	1341	U	N1-C2-N3	7.01	119.11	114.90
26	BB	253	C	N1-C2-O2	7.01	123.11	118.90
26	BB	472	A	O4'-C1'-N9	7.01	113.81	108.20
26	BB	2840	C	C5'-C4'-C3'	-7.01	104.78	116.00
1	AA	447	G	C5-C6-O6	7.01	132.81	128.60
26	BB	107	G	O4'-C1'-N9	7.01	113.81	108.20
26	BB	231	A	C2'-C3'-O3'	7.01	124.92	109.50
26	BB	1497	U	C6-N1-C2	7.01	125.20	121.00
1	AA	414	A	N7-C8-N9	-7.01	110.30	113.80
1	AA	742	G	N9-C4-C5	7.01	108.20	105.40
1	AA	1455	G	N9-C4-C5	7.01	108.20	105.40
26	BB	134	G	N9-C4-C5	7.01	108.20	105.40
26	BB	234	U	N3-C2-O2	-7.01	117.30	122.20
26	BB	238	C	N3-C4-N4	7.01	122.91	118.00
26	BB	524	G	C8-N9-C4	-7.01	103.60	106.40
26	BB	1275	A	C8-N9-C4	-7.01	103.00	105.80
26	BB	1295	C	C6-N1-C2	-7.01	117.50	120.30
26	BB	1733	G	O4'-C4'-C3'	7.01	111.70	106.10
26	BB	2127	G	N3-C4-C5	-7.01	125.10	128.60
37	BM	79	PHE	CB-CG-CD2	-7.01	115.89	120.80
1	AA	386	C	C1'-O4'-C4'	7.00	115.50	109.90
1	AA	884	U	C4-C5-C6	7.00	123.90	119.70
26	BB	24	G	N7-C8-N9	7.00	116.60	113.10
26	BB	958	U	C3'-C2'-C1'	7.00	107.10	101.50
26	BB	1331	G	O4'-C1'-N9	7.00	113.80	108.20
26	BB	2103	C	N3-C4-N4	7.00	122.90	118.00
1	AA	890	G	C4-C5-N7	-7.00	108.00	110.80
1	AA	1186	G	C4-C5-N7	7.00	113.60	110.80
1	AA	1496	C	C5-C4-N4	-7.00	115.30	120.20
25	BA	118	C	C1'-O4'-C4'	-7.00	104.30	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	252	G	C5-C6-O6	-7.00	124.40	128.60
26	BB	429	A	C1'-O4'-C4'	7.00	115.50	109.90
26	BB	448	U	C4-C5-C6	7.00	123.90	119.70
26	BB	2379	G	O4'-C1'-N9	7.00	113.80	108.20
1	AA	1155	A	C4-C5-N7	7.00	114.20	110.70
1	AA	1525	G	N3-C2-N2	-7.00	115.00	119.90
25	BA	84	G	N9-C1'-C2'	-7.00	104.30	112.00
26	BB	48	G	O4'-C1'-N9	7.00	113.80	108.20
26	BB	576	U	O4'-C1'-N1	7.00	113.80	108.20
26	BB	577	G	N7-C8-N9	-7.00	109.60	113.10
26	BB	1221	C	N3-C4-N4	7.00	122.90	118.00
26	BB	1297	C	N3-C2-O2	-7.00	117.00	121.90
26	BB	2197	U	C5-C4-O4	-7.00	121.70	125.90
26	BB	945	A	C2-N3-C4	7.00	114.10	110.60
26	BB	1696	G	N1-C6-O6	-7.00	115.70	119.90
26	BB	1722	A	C4-C5-C6	-7.00	113.50	117.00
26	BB	2289	G	C5-C6-N1	7.00	115.00	111.50
1	AA	177	G	C6-N1-C2	-7.00	120.90	125.10
1	AA	182	A	C3'-C2'-C1'	-7.00	95.90	101.50
1	AA	688	G	C6-C5-N7	-7.00	126.20	130.40
1	AA	1240	U	C4-C5-C6	7.00	123.90	119.70
4	AD	17	C	C4-C5-C6	-7.00	113.90	117.40
25	BA	78	A	C6-C5-N7	-7.00	127.40	132.30
26	BB	742	A	C2-N3-C4	7.00	114.10	110.60
26	BB	983	A	C8-N9-C4	-7.00	103.00	105.80
26	BB	1024	G	C8-N9-C4	-7.00	103.60	106.40
26	BB	1423	G	C3'-C2'-C1'	7.00	107.10	101.50
26	BB	1966	A	C8-N9-C4	-7.00	103.00	105.80
26	BB	2138	G	C5'-C4'-O4'	7.00	117.50	109.10
26	BB	2172	U	C5'-C4'-C3'	-7.00	104.80	116.00
26	BB	2397	G	C3'-C2'-C1'	7.00	107.10	101.50
1	AA	1064	G	O5'-P-OP1	-7.00	99.40	105.70
4	AD	38	A	C6-N1-C2	7.00	122.80	118.60
25	BA	9	G	N3-C4-C5	-7.00	125.10	128.60
26	BB	309	A	N1-C2-N3	-7.00	125.80	129.30
26	BB	732	C	N1-C2-O2	7.00	123.10	118.90
26	BB	1226	A	C6-C5-N7	7.00	137.20	132.30
26	BB	1516	G	N3-C4-N9	7.00	130.20	126.00
26	BB	1837	C	C6-N1-C2	-7.00	117.50	120.30
26	BB	2120	G	N3-C4-C5	-7.00	125.10	128.60
26	BB	2273	A	C4-C5-N7	-7.00	107.20	110.70
26	BB	2355	G	N9-C4-C5	7.00	108.20	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	BZ	71	ARG	CD-NE-CZ	7.00	133.40	123.60
1	AA	545	C	C4-C5-C6	7.00	120.90	117.40
1	AA	1054	C	C5-C4-N4	-7.00	115.30	120.20
26	BB	22	C	O4'-C1'-N1	7.00	113.80	108.20
26	BB	546	U	C4'-C3'-C2'	-7.00	95.61	102.60
26	BB	1047	G	C2-N3-C4	7.00	115.40	111.90
26	BB	2115	G	C5'-C4'-O4'	7.00	117.49	109.10
1	AA	29	U	C3'-C2'-C1'	6.99	107.09	101.50
1	AA	684	U	C2-N3-C4	-6.99	122.80	127.00
1	AA	1036	A	N1-C6-N6	-6.99	114.40	118.60
3	AC	52	U	O4'-C1'-N1	6.99	113.80	108.20
4	AD	66	C	N3-C2-O2	-6.99	117.00	121.90
17	AQ	41	TRP	CD1-CG-CD2	-6.99	100.71	106.30
26	BB	150	U	N1-C2-O2	6.99	127.69	122.80
26	BB	435	C	C1'-O4'-C4'	6.99	115.50	109.90
26	BB	662	G	C6-N1-C2	-6.99	120.90	125.10
26	BB	1033	U	N3-C4-O4	6.99	124.30	119.40
26	BB	1433	A	N9-C4-C5	-6.99	103.00	105.80
26	BB	2243	U	C5-C6-N1	-6.99	119.20	122.70
1	AA	878	A	C1'-O4'-C4'	-6.99	104.31	109.90
26	BB	310	A	N1-C6-N6	-6.99	114.41	118.60
1	AA	309	A	C8-N9-C4	6.99	108.60	105.80
1	AA	654	G	C8-N9-C1'	6.99	136.09	127.00
1	AA	1355	G	N3-C4-N9	6.99	130.19	126.00
24	AX	70	TYR	CB-CG-CD1	-6.99	116.81	121.00
25	BA	36	C	C2-N3-C4	6.99	123.40	119.90
26	BB	30	G	N9-C4-C5	-6.99	102.60	105.40
26	BB	439	A	C5-C6-N6	6.99	129.29	123.70
26	BB	737	C	N1-C2-N3	6.99	124.09	119.20
26	BB	940	G	C3'-C2'-C1'	6.99	107.09	101.50
26	BB	1414	C	C6-N1-C2	-6.99	117.50	120.30
26	BB	1672	A	N9-C4-C5	6.99	108.60	105.80
26	BB	2116	G	C5-N7-C8	-6.99	100.81	104.30
26	BB	2466	C	N1-C2-O2	6.99	123.09	118.90
26	BB	2499	C	N3-C4-N4	6.99	122.89	118.00
26	BB	2735	G	N9-C4-C5	6.99	108.20	105.40
1	AA	39	G	O4'-C1'-N9	6.99	113.79	108.20
1	AA	651	C	C5'-C4'-O4'	6.99	117.48	109.10
1	AA	1188	A	O5'-P-OP1	-6.99	99.41	105.70
1	AA	1256	A	C2-N3-C4	6.99	114.09	110.60
1	AA	1384	C	N3-C4-C5	6.99	124.69	121.90
1	AA	1453	G	C8-N9-C4	-6.99	103.60	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	983	A	C5-C6-N6	-6.99	118.11	123.70
26	BB	1914	C	C2-N3-C4	6.99	123.39	119.90
26	BB	2496	C	C4-C5-C6	6.99	120.89	117.40
26	BB	2812	G	C8-N9-C4	6.99	109.20	106.40
26	BB	197	A	N7-C8-N9	6.99	117.29	113.80
26	BB	842	U	C5-C4-O4	-6.99	121.71	125.90
26	BB	1904	G	C1'-O4'-C4'	-6.99	104.31	109.90
1	AA	410	G	C4-C5-C6	6.99	122.99	118.80
26	BB	386	G	C5-C6-N1	6.99	114.99	111.50
26	BB	676	A	C5-C6-N1	-6.99	114.21	117.70
26	BB	1639	C	O4'-C1'-N1	6.99	113.79	108.20
26	BB	1773	A	C5'-C4'-C3'	-6.99	104.82	116.00
26	BB	1820	U	C5-C4-O4	-6.99	121.71	125.90
26	BB	1985	C	C4-C5-C6	6.99	120.89	117.40
26	BB	1995	U	O4'-C1'-N1	6.99	113.79	108.20
26	BB	2644	G	C5-C6-N1	-6.99	108.01	111.50
1	AA	173	U	P-O3'-C3'	6.98	128.08	119.70
26	BB	1377	G	N3-C4-C5	-6.98	125.11	128.60
1	AA	1040	U	C4'-C3'-C2'	-6.98	95.62	102.60
1	AA	1347	G	N3-C2-N2	-6.98	115.01	119.90
26	BB	453	A	C3'-C2'-C1'	-6.98	95.91	101.50
26	BB	1131	G	O4'-C1'-N9	6.98	113.79	108.20
26	BB	1791	A	N1-C2-N3	-6.98	125.81	129.30
26	BB	2048	G	C4-C5-C6	6.98	122.99	118.80
1	AA	877	G	C8-N9-C1'	6.98	136.07	127.00
1	AA	1103	C	O4'-C1'-N1	6.98	113.78	108.20
1	AA	1171	A	O4'-C1'-N9	6.98	113.78	108.20
2	AB	29	G	O4'-C1'-N9	6.98	113.78	108.20
7	AG	13	ARG	CD-NE-CZ	6.98	133.37	123.60
26	BB	8	C	C4-C5-C6	6.98	120.89	117.40
26	BB	224	U	O5'-P-OP2	-6.98	99.42	105.70
26	BB	697	G	C5-C6-O6	-6.98	124.41	128.60
26	BB	1934	C	N1-C1'-C2'	-6.98	104.32	112.00
26	BB	2275	C	C5-C6-N1	6.98	124.49	121.00
26	BB	2877	G	C5'-C4'-O4'	6.98	117.48	109.10
10	AJ	137	ARG	NH1-CZ-NH2	-6.98	111.72	119.40
25	BA	109	A	C1'-O4'-C4'	6.98	115.48	109.90
26	BB	473	G	N1-C6-O6	6.98	124.09	119.90
26	BB	776	G	C3'-C2'-C1'	6.98	107.08	101.50
43	BS	35	PHE	CB-CG-CD1	-6.98	115.92	120.80
1	AA	243	A	N1-C6-N6	6.98	122.79	118.60
1	AA	590	U	C4-C5-C6	-6.98	115.51	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1009	U	C6-N1-C2	6.98	125.19	121.00
1	AA	1356	G	N9-C4-C5	6.98	108.19	105.40
1	AA	1461	G	P-O3'-C3'	6.98	128.07	119.70
26	BB	623	C	N3-C4-C5	-6.98	119.11	121.90
26	BB	1356	G	N7-C8-N9	6.98	116.59	113.10
26	BB	1839	G	C2-N3-C4	6.98	115.39	111.90
26	BB	1947	C	C5-C6-N1	6.98	124.49	121.00
30	BF	121	VAL	CA-CB-CG1	-6.98	100.44	110.90
1	AA	252	U	C5-C6-N1	-6.98	119.21	122.70
1	AA	457	G	N3-C4-C5	-6.98	125.11	128.60
1	AA	1032	G	C6-C5-N7	-6.98	126.22	130.40
1	AA	1074	G	C2-N3-C4	-6.98	108.41	111.90
1	AA	1111	A	N9-C1'-C2'	-6.98	104.33	112.00
26	BB	1546	G	C2-N3-C4	6.98	115.39	111.90
26	BB	1677	A	C6-C5-N7	6.98	137.18	132.30
26	BB	2232	C	N3-C4-C5	-6.98	119.11	121.90
1	AA	571	U	N3-C4-C5	-6.97	110.42	114.60
1	AA	760	G	N3-C2-N2	-6.97	115.02	119.90
1	AA	1097	C	N3-C4-C5	-6.97	119.11	121.90
26	BB	317	G	N9-C4-C5	-6.97	102.61	105.40
26	BB	1080	A	N9-C4-C5	6.97	108.59	105.80
26	BB	1360	G	C4-C5-N7	-6.97	108.01	110.80
26	BB	1404	C	C6-N1-C2	-6.97	117.51	120.30
26	BB	2330	G	N1-C2-N3	-6.97	119.72	123.90
1	AA	210	C	N3-C2-O2	-6.97	117.02	121.90
1	AA	996	A	O4'-C1'-N9	6.97	113.78	108.20
26	BB	205	G	C4-C5-C6	6.97	122.98	118.80
26	BB	223	A	O4'-C1'-N9	6.97	113.78	108.20
26	BB	225	C	C3'-C2'-C1'	6.97	107.08	101.50
26	BB	674	G	C6-C5-N7	-6.97	126.22	130.40
26	BB	683	U	C4'-C3'-C2'	-6.97	95.63	102.60
26	BB	1495	A	C4-C5-C6	-6.97	113.51	117.00
26	BB	2098	U	C2-N3-C4	-6.97	122.82	127.00
1	AA	363	A	C5'-C4'-O4'	6.97	117.47	109.10
1	AA	780	A	N9-C4-C5	6.97	108.59	105.80
15	AO	7	VAL	CA-CB-CG1	6.97	121.36	110.90
26	BB	281	C	C3'-C2'-C1'	-6.97	95.92	101.50
26	BB	577	G	N3-C4-C5	-6.97	125.11	128.60
28	BD	212	TRP	CD1-CG-CD2	-6.97	100.72	106.30
1	AA	151	A	C6-N1-C2	6.97	122.78	118.60
1	AA	163	C	N3-C4-C5	-6.97	119.11	121.90
1	AA	904	U	N3-C4-C5	-6.97	110.42	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1067	A	O4'-C1'-N9	6.97	113.78	108.20
26	BB	330	A	C8-N9-C4	-6.97	103.01	105.80
26	BB	448	U	O4'-C1'-N1	6.97	113.78	108.20
26	BB	611	C	C3'-C2'-C1'	-6.97	95.92	101.50
26	BB	894	U	C1'-O4'-C4'	-6.97	104.32	109.90
26	BB	1085	A	C1'-O4'-C4'	-6.97	104.33	109.90
26	BB	1176	U	O4'-C1'-C2'	-6.97	98.83	105.80
26	BB	1563	U	N1-C2-O2	-6.97	117.92	122.80
26	BB	1817	G	N7-C8-N9	6.97	116.58	113.10
26	BB	1626	A	O4'-C4'-C3'	6.97	111.67	106.10
26	BB	2055	C	C6-N1-C2	6.97	123.09	120.30
26	BB	2063	C	O4'-C1'-N1	6.97	113.77	108.20
26	BB	2335	A	C5'-C4'-C3'	-6.97	104.85	116.00
1	AA	140	U	C5-C4-O4	-6.97	121.72	125.90
1	AA	498	A	C6-N1-C2	-6.97	114.42	118.60
1	AA	601	G	C4'-C3'-C2'	-6.97	95.63	102.60
1	AA	1466	C	C6-N1-C2	6.97	123.09	120.30
25	BA	70	C	C6-N1-C2	-6.97	117.51	120.30
26	BB	214	G	N3-C4-C5	-6.97	125.12	128.60
26	BB	1414	C	N1-C1'-C2'	-6.97	104.34	112.00
26	BB	1435	G	N3-C4-N9	6.97	130.18	126.00
26	BB	1718	G	C5-C6-O6	-6.97	124.42	128.60
26	BB	1872	A	O4'-C4'-C3'	6.97	111.67	106.10
26	BB	1912	A	C8-N9-C4	-6.97	103.01	105.80
30	BF	27	LEU	CB-CG-CD1	6.97	122.84	111.00
1	AA	31	G	N7-C8-N9	6.96	116.58	113.10
1	AA	229	U	C5'-C4'-O4'	6.96	117.46	109.10
1	AA	386	C	N3-C2-O2	-6.96	117.03	121.90
26	BB	22	C	C3'-C2'-C1'	6.96	107.07	101.50
26	BB	110	G	N3-C4-C5	-6.96	125.12	128.60
26	BB	205	G	C8-N9-C4	-6.96	103.61	106.40
26	BB	254	G	C2-N3-C4	6.96	115.38	111.90
26	BB	1005	C	C5-C4-N4	-6.96	115.33	120.20
26	BB	1304	A	C2-N3-C4	6.96	114.08	110.60
26	BB	1979	U	C5'-C4'-C3'	-6.96	104.86	116.00
26	BB	2530	A	O4'-C4'-C3'	-6.96	97.04	104.00
26	BB	2799	A	N1-C2-N3	-6.96	125.82	129.30
1	AA	237	G	C4-C5-C6	6.96	122.98	118.80
1	AA	573	A	C5'-C4'-O4'	6.96	117.46	109.10
3	AC	47	C	C3'-C2'-C1'	6.96	107.07	101.50
26	BB	17	G	N7-C8-N9	6.96	116.58	113.10
26	BB	1079	C	C5'-C4'-C3'	-6.96	104.86	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1982	U	N3-C2-O2	-6.96	117.33	122.20
1	AA	127	G	C4-C5-N7	-6.96	108.02	110.80
1	AA	800	G	C5-C6-O6	-6.96	124.42	128.60
2	AB	51	G	C6-N1-C2	-6.96	120.92	125.10
26	BB	115	C	C5-C6-N1	-6.96	117.52	121.00
26	BB	661	A	C5-C6-N6	-6.96	118.13	123.70
26	BB	1863	G	C8-N9-C4	-6.96	103.61	106.40
26	BB	2864	G	C6-N1-C2	-6.96	120.92	125.10
26	BB	2901	C	C5'-C4'-O4'	6.96	117.45	109.10
1	AA	423	G	O4'-C1'-N9	6.96	113.77	108.20
1	AA	612	C	C2-N3-C4	6.96	123.38	119.90
26	BB	1068	G	C5-N7-C8	-6.96	100.82	104.30
26	BB	1686	C	C3'-C2'-C1'	6.96	107.07	101.50
26	BB	2036	C	C6-N1-C2	-6.96	117.52	120.30
1	AA	495	A	O4'-C1'-N9	6.96	113.77	108.20
26	BB	1738	G	C5-C6-O6	-6.96	124.42	128.60
26	BB	1846	G	N1-C2-N3	-6.96	119.72	123.90
26	BB	1850	G	C6-N1-C2	-6.96	120.92	125.10
44	BT	21	ARG	NE-CZ-NH1	-6.96	116.82	120.30
1	AA	1376	U	C6-N1-C2	-6.96	116.83	121.00
1	AA	1530	G	C6-N1-C2	-6.96	120.93	125.10
7	AG	54	LEU	CB-CG-CD2	6.96	122.82	111.00
26	BB	1465	G	N1-C2-N3	6.96	128.07	123.90
26	BB	1623	G	C6-N1-C2	-6.96	120.93	125.10
26	BB	1922	G	N1-C6-O6	-6.96	115.73	119.90
26	BB	2581	G	C6-C5-N7	-6.96	126.23	130.40
1	AA	86	G	C5-N7-C8	6.96	107.78	104.30
1	AA	771	G	O4'-C1'-N9	6.96	113.76	108.20
26	BB	1537	G	C5-C6-O6	-6.96	124.43	128.60
26	BB	1736	U	O4'-C1'-N1	6.96	113.76	108.20
26	BB	2284	A	O4'-C1'-N9	6.96	113.76	108.20
1	AA	119	A	O4'-C1'-N9	-6.95	102.64	108.20
1	AA	720	C	C1'-O4'-C4'	-6.95	104.34	109.90
1	AA	1080	A	C5-C6-N1	-6.95	114.22	117.70
1	AA	1353	G	N7-C8-N9	6.95	116.58	113.10
6	AF	131	ARG	NE-CZ-NH2	-6.95	116.82	120.30
26	BB	123	G	O3'-P-O5'	-6.95	90.79	104.00
26	BB	820	A	C5-N7-C8	-6.95	100.42	103.90
26	BB	2178	C	C6-N1-C2	-6.95	117.52	120.30
1	AA	676	A	C5-C6-N6	-6.95	118.14	123.70
26	BB	588	U	C5-C4-O4	6.95	130.07	125.90
26	BB	1626	A	C1'-O4'-C4'	-6.95	104.34	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	47	C	C6-N1-C2	6.95	123.08	120.30
1	AA	263	A	C8-N9-C4	-6.95	103.02	105.80
1	AA	691	G	C6-N1-C2	-6.95	120.93	125.10
2	AB	57	G	C5-C6-O6	-6.95	124.43	128.60
2	AB	73	G	C5-C6-O6	6.95	132.77	128.60
26	BB	177	G	N3-C4-N9	6.95	130.17	126.00
26	BB	238	C	N1-C1'-C2'	-6.95	104.36	112.00
26	BB	1128	G	C6-N1-C2	-6.95	120.93	125.10
26	BB	1974	C	C5'-C4'-O4'	6.95	117.44	109.10
26	BB	2306	C	P-O3'-C3'	6.95	128.04	119.70
26	BB	2351	G	C2-N3-C4	6.95	115.38	111.90
26	BB	2845	U	O4'-C1'-N1	6.95	113.76	108.20
1	AA	970	C	N1-C2-O2	6.95	123.07	118.90
1	AA	1216	A	C4-C5-N7	-6.95	107.22	110.70
1	AA	1430	A	P-O3'-C3'	6.95	128.04	119.70
13	AM	32	THR	CA-CB-CG2	6.95	122.13	112.40
26	BB	668	A	C3'-C2'-C1'	6.95	107.06	101.50
26	BB	1934	C	C4-C5-C6	6.95	120.87	117.40
26	BB	2264	C	N3-C4-C5	-6.95	119.12	121.90
1	AA	829	G	N3-C4-C5	-6.95	125.13	128.60
1	AA	1511	G	C5-C6-O6	-6.95	124.43	128.60
4	AD	52	C	N3-C2-O2	6.95	126.76	121.90
26	BB	1027	A	C4-C5-C6	6.95	120.47	117.00
26	BB	2187	U	N3-C4-C5	-6.95	110.43	114.60
50	BZ	27	ARG	NE-CZ-NH2	6.95	123.77	120.30
1	AA	84	U	O4'-C1'-C2'	-6.95	98.86	105.80
1	AA	772	U	C2-N3-C4	-6.95	122.83	127.00
1	AA	1049	U	P-O3'-C3'	6.95	128.03	119.70
1	AA	1223	C	C5-C4-N4	6.95	125.06	120.20
26	BB	455	C	P-O3'-C3'	6.95	128.04	119.70
26	BB	1192	G	C5-C6-O6	6.95	132.77	128.60
26	BB	2389	G	C4-C5-N7	6.95	113.58	110.80
26	BB	2714	G	N1-C6-O6	6.95	124.07	119.90
1	AA	262	A	C3'-C2'-C1'	6.94	107.06	101.50
1	AA	1345	U	O4'-C1'-N1	6.94	113.75	108.20
26	BB	1125	G	C5-C6-N1	6.94	114.97	111.50
26	BB	1997	C	C2-N3-C4	6.94	123.37	119.90
1	AA	318	G	N3-C4-C5	-6.94	125.13	128.60
1	AA	782	A	N7-C8-N9	6.94	117.27	113.80
1	AA	785	G	N1-C2-N2	6.94	122.45	116.20
1	AA	1198	G	O4'-C1'-C2'	-6.94	98.86	105.80
18	AR	16	ARG	NE-CZ-NH1	6.94	123.77	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	AS	31	ARG	NE-CZ-NH1	6.94	123.77	120.30
26	BB	1601	G	C6-C5-N7	-6.94	126.23	130.40
26	BB	1789	A	C6-C5-N7	6.94	137.16	132.30
26	BB	2289	G	C1'-O4'-C4'	-6.94	104.34	109.90
26	BB	2883	A	C5-C6-N1	6.94	121.17	117.70
26	BB	2884	U	N1-C1'-C2'	6.94	123.03	114.00
1	AA	379	C	C5-C4-N4	-6.94	115.34	120.20
1	AA	439	U	O4'-C1'-C2'	6.94	113.85	107.60
1	AA	455	G	C8-N9-C4	-6.94	103.62	106.40
1	AA	1529	G	N7-C8-N9	6.94	116.57	113.10
2	AB	52	A	C4-C5-C6	6.94	120.47	117.00
4	AD	1	C	C2-N3-C4	6.94	123.37	119.90
25	BA	78	A	C6-N1-C2	6.94	122.76	118.60
26	BB	40	U	N3-C2-O2	-6.94	117.34	122.20
26	BB	1125	G	C5'-C4'-O4'	6.94	117.43	109.10
26	BB	1212	G	N3-C4-C5	-6.94	125.13	128.60
26	BB	1240	U	N1-C2-N3	6.94	119.06	114.90
26	BB	1672	A	O4'-C1'-N9	6.94	113.75	108.20
26	BB	2250	G	C3'-C2'-C1'	6.94	107.05	101.50
1	AA	1206	G	N3-C4-N9	6.94	130.16	126.00
1	AA	105	G	C4'-C3'-C2'	-6.94	95.66	102.60
1	AA	841	C	N3-C2-O2	-6.94	117.04	121.90
1	AA	1086	U	C2-N3-C4	-6.94	122.84	127.00
11	AK	64	TYR	CB-CG-CD2	-6.94	116.84	121.00
26	BB	310	A	N9-C4-C5	6.94	108.58	105.80
26	BB	522	A	C5-C6-N6	-6.94	118.15	123.70
26	BB	625	G	C8-N9-C4	-6.94	103.62	106.40
26	BB	1191	G	C5-C6-O6	-6.94	124.44	128.60
26	BB	1289	C	N1-C2-O2	-6.94	114.74	118.90
1	AA	884	U	C5-C4-O4	6.94	130.06	125.90
26	BB	1677	A	N9-C4-C5	6.94	108.57	105.80
26	BB	1923	U	C5-C4-O4	6.94	130.06	125.90
1	AA	295	C	N1-C2-O2	6.93	123.06	118.90
1	AA	838	G	N9-C4-C5	-6.93	102.63	105.40
1	AA	1137	C	C4-C5-C6	-6.93	113.93	117.40
1	AA	1508	A	C5-C6-N6	-6.93	118.15	123.70
4	AD	62	C	C6-N1-C2	6.93	123.07	120.30
26	BB	652	U	O4'-C1'-N1	6.93	113.75	108.20
26	BB	932	U	C2-N1-C1'	6.93	126.02	117.70
26	BB	1063	G	N1-C6-O6	-6.93	115.74	119.90
26	BB	1139	G	C8-N9-C4	-6.93	103.63	106.40
26	BB	1185	G	C6-N1-C2	-6.93	120.94	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1402	U	N3-C4-O4	6.93	124.25	119.40
26	BB	1705	A	C2-N3-C4	-6.93	107.13	110.60
26	BB	2068	U	C5-C6-N1	-6.93	119.23	122.70
26	BB	2540	C	C6-N1-C2	6.93	123.07	120.30
1	AA	554	A	C4-C5-N7	6.93	114.17	110.70
1	AA	1358	U	C4'-C3'-C2'	-6.93	95.67	102.60
26	BB	1163	G	C5-N7-C8	-6.93	100.83	104.30
26	BB	1334	G	N9-C4-C5	6.93	108.17	105.40
26	BB	1478	G	C5'-C4'-O4'	6.93	117.42	109.10
26	BB	1760	C	O4'-C1'-N1	6.93	113.75	108.20
26	BB	1849	G	N1-C2-N3	-6.93	119.74	123.90
26	BB	2094	A	C4-C5-N7	-6.93	107.23	110.70
26	BB	2126	A	O4'-C1'-N9	6.93	113.75	108.20
1	AA	420	U	N3-C4-C5	-6.93	110.44	114.60
26	BB	782	A	C5-C6-N1	-6.93	114.23	117.70
26	BB	2828	G	C8-N9-C4	6.93	109.17	106.40
1	AA	345	C	N3-C2-O2	-6.93	117.05	121.90
1	AA	1121	U	C5'-C4'-O4'	6.93	117.42	109.10
26	BB	92	U	C4-C5-C6	6.93	123.86	119.70
26	BB	2203	U	C5-C4-O4	-6.93	121.74	125.90
26	BB	2389	G	C2-N3-C4	6.93	115.36	111.90
36	BL	96	ARG	NE-CZ-NH1	-6.93	116.83	120.30
1	AA	521	G	N3-C4-N9	6.93	130.16	126.00
26	BB	586	A	C4'-C3'-C2'	-6.93	95.67	102.60
26	BB	1628	G	N1-C6-O6	6.93	124.06	119.90
26	BB	2576	G	O4'-C1'-N9	6.93	113.74	108.20
1	AA	10	A	C1'-O4'-C4'	-6.93	104.36	109.90
1	AA	61	G	C8-N9-C4	-6.93	103.63	106.40
1	AA	928	G	C6-C5-N7	-6.93	126.24	130.40
1	AA	996	A	C4-C5-C6	-6.93	113.54	117.00
4	AD	70	C	C6-N1-C2	-6.93	117.53	120.30
26	BB	125	A	C2-N3-C4	6.93	114.06	110.60
26	BB	1014	A	C5-N7-C8	6.93	107.36	103.90
26	BB	1155	A	C3'-C2'-C1'	6.93	107.04	101.50
26	BB	1224	U	C6-N1-C2	-6.93	116.84	121.00
26	BB	2240	U	O4'-C1'-N1	6.93	113.74	108.20
26	BB	2660	A	N9-C4-C5	6.93	108.57	105.80
1	AA	902	G	C8-N9-C4	-6.92	103.63	106.40
1	AA	1263	C	N3-C4-N4	6.92	122.85	118.00
4	AD	34	U	C5'-C4'-C3'	-6.92	104.92	116.00
26	BB	407	G	C1'-O4'-C4'	6.92	115.44	109.90
26	BB	542	C	N3-C4-N4	-6.92	113.15	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1268	A	C4-C5-C6	-6.92	113.54	117.00
26	BB	2025	C	C4-C5-C6	6.92	120.86	117.40
26	BB	2592	G	O4'-C1'-N9	6.92	113.74	108.20
26	BB	2597	G	C5-N7-C8	-6.92	100.84	104.30
1	AA	818	G	C5-N7-C8	-6.92	100.84	104.30
1	AA	1491	G	P-O3'-C3'	6.92	128.01	119.70
26	BB	1645	G	N9-C1'-C2'	-6.92	104.39	112.00
26	BB	1865	U	N3-C2-O2	-6.92	117.35	122.20
26	BB	2762	C	C1'-O4'-C4'	-6.92	104.36	109.90
1	AA	413	G	C3'-C2'-C1'	6.92	107.04	101.50
1	AA	447	G	N3-C4-C5	-6.92	125.14	128.60
1	AA	632	U	C3'-C2'-C1'	6.92	107.04	101.50
1	AA	736	C	N3-C4-N4	6.92	122.84	118.00
26	BB	365	U	N1-C2-N3	6.92	119.05	114.90
26	BB	495	G	N7-C8-N9	6.92	116.56	113.10
26	BB	649	G	N7-C8-N9	6.92	116.56	113.10
26	BB	1218	G	C6-N1-C2	-6.92	120.95	125.10
26	BB	1239	G	C6-C5-N7	-6.92	126.25	130.40
26	BB	1715	G	N3-C4-N9	6.92	130.15	126.00
26	BB	2813	A	C6-C5-N7	-6.92	127.45	132.30
26	BB	2827	C	C4-C5-C6	-6.92	113.94	117.40
26	BB	2839	G	N7-C8-N9	-6.92	109.64	113.10
43	BS	49	ARG	NE-CZ-NH2	-6.92	116.84	120.30
1	AA	480	U	C5-C4-O4	-6.92	121.75	125.90
1	AA	1147	C	N3-C2-O2	-6.92	117.06	121.90
25	BA	33	G	N9-C4-C5	-6.92	102.63	105.40
26	BB	1313	U	O4'-C4'-C3'	-6.92	97.08	104.00
26	BB	1429	G	N1-C6-O6	-6.92	115.75	119.90
26	BB	1719	G	C5-C6-N1	6.92	114.96	111.50
26	BB	2820	A	C5'-C4'-C3'	6.92	127.07	116.00
26	BB	2893	A	N7-C8-N9	-6.92	110.34	113.80
1	AA	120	A	N7-C8-N9	-6.92	110.34	113.80
1	AA	201	G	C2-N3-C4	6.92	115.36	111.90
1	AA	449	G	N3-C2-N2	-6.92	115.06	119.90
1	AA	484	G	C2-N3-C4	6.92	115.36	111.90
1	AA	513	C	C3'-C2'-C1'	6.92	107.03	101.50
1	AA	599	C	C5-C6-N1	-6.92	117.54	121.00
1	AA	918	A	C6-C5-N7	6.92	137.14	132.30
1	AA	1006	G	C5-C6-N1	6.92	114.96	111.50
1	AA	1472	U	C4-C5-C6	6.92	123.85	119.70
26	BB	626	A	N9-C4-C5	6.92	108.57	105.80
26	BB	1187	G	P-O3'-C3'	6.92	128.00	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1410	G	C5-C6-N1	6.92	114.96	111.50
26	BB	1973	G	C6-C5-N7	-6.92	126.25	130.40
26	BB	2033	A	C6-N1-C2	6.92	122.75	118.60
1	AA	742	G	C6-N1-C2	-6.92	120.95	125.10
1	AA	773	G	N3-C2-N2	-6.92	115.06	119.90
1	AA	838	G	C5-C6-N1	6.92	114.96	111.50
1	AA	1317	C	N3-C4-N4	-6.92	113.16	118.00
1	AA	1419	G	P-O3'-C3'	6.92	128.00	119.70
2	AB	1	A	C5-N7-C8	6.92	107.36	103.90
3	AC	25	U	C6-N1-C1'	-6.92	111.52	121.20
26	BB	214	G	C6-N1-C2	-6.92	120.95	125.10
26	BB	2462	C	C4-C5-C6	-6.92	113.94	117.40
26	BB	2599	G	N3-C4-C5	-6.92	125.14	128.60
1	AA	247	G	N9-C4-C5	-6.92	102.63	105.40
1	AA	1532	U	C2-N3-C4	-6.92	122.85	127.00
9	AI	82	ASP	CB-CG-OD1	6.92	124.52	118.30
26	BB	238	C	C4-C5-C6	6.92	120.86	117.40
26	BB	1623	G	C5-C6-N1	6.92	114.96	111.50
1	AA	202	G	C8-N9-C4	6.91	109.17	106.40
1	AA	630	A	N1-C6-N6	-6.91	114.45	118.60
1	AA	846	G	N1-C2-N2	-6.91	109.98	116.20
1	AA	1180	A	N9-C4-C5	6.91	108.56	105.80
1	AA	1276	G	N3-C2-N2	6.91	124.74	119.90
3	AC	53	G	N1-C2-N3	-6.91	119.75	123.90
26	BB	277	G	C4-C5-N7	-6.91	108.03	110.80
26	BB	834	G	N3-C4-C5	-6.91	125.14	128.60
26	BB	1269	A	C2-N3-C4	6.91	114.06	110.60
26	BB	1346	G	N9-C1'-C2'	-6.91	104.40	112.00
26	BB	1966	A	N7-C8-N9	6.91	117.26	113.80
26	BB	2469	A	C5-C6-N1	6.91	121.16	117.70
26	BB	2481	G	N7-C8-N9	6.91	116.56	113.10
1	AA	865	A	O4'-C1'-N9	6.91	113.73	108.20
26	BB	461	C	C5'-C4'-O4'	6.91	117.39	109.10
26	BB	1507	C	O4'-C1'-N1	-6.91	102.67	108.20
26	BB	1753	G	C3'-C2'-C1'	-6.91	95.97	101.50
26	BB	2745	C	N3-C4-C5	6.91	124.67	121.90
26	BB	2778	A	C2-N3-C4	6.91	114.06	110.60
1	AA	55	A	N1-C2-N3	-6.91	125.84	129.30
1	AA	429	U	N1-C1'-C2'	6.91	122.98	114.00
1	AA	486	U	O4'-C1'-N1	6.91	113.73	108.20
1	AA	1071	C	C5-C6-N1	-6.91	117.55	121.00
1	AA	1451	U	C4'-C3'-C2'	6.91	109.51	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	2	G	N3-C4-C5	-6.91	125.14	128.60
26	BB	642	U	N1-C1'-C2'	6.91	122.98	114.00
26	BB	931	U	N3-C4-C5	-6.91	110.45	114.60
26	BB	1333	G	C1'-O4'-C4'	6.91	115.43	109.90
26	BB	1439	A	C4'-C3'-C2'	-6.91	95.69	102.60
26	BB	1873	G	C5'-C4'-O4'	6.91	117.39	109.10
1	AA	944	G	C1'-O4'-C4'	-6.91	104.37	109.90
1	AA	1064	G	C5-N7-C8	-6.91	100.85	104.30
1	AA	1362	A	C5-N7-C8	-6.91	100.45	103.90
1	AA	1387	G	C1'-O4'-C4'	-6.91	104.37	109.90
4	AD	30	G	C3'-C2'-C1'	-6.91	95.97	101.50
8	AH	94	PHE	CB-CG-CD1	-6.91	115.96	120.80
25	BA	120	U	N3-C4-O4	-6.91	114.56	119.40
26	BB	551	G	C8-N9-C4	-6.91	103.64	106.40
26	BB	1222	U	N3-C2-O2	-6.91	117.36	122.20
26	BB	1408	G	C6-C5-N7	6.91	134.54	130.40
26	BB	1662	U	N1-C1'-C2'	-6.91	104.40	112.00
26	BB	1675	C	C5-C6-N1	6.91	124.45	121.00
26	BB	2335	A	N1-C2-N3	-6.91	125.85	129.30
26	BB	2465	C	P-O5'-C5'	6.91	131.95	120.90
26	BB	2488	G	N3-C4-C5	-6.91	125.15	128.60
2	AB	13	C	C5'-C4'-O4'	6.91	117.39	109.10
26	BB	1143	A	O3'-P-O5'	-6.91	90.88	104.00
26	BB	1280	G	N9-C4-C5	6.91	108.16	105.40
26	BB	1283	G	O4'-C1'-N9	6.91	113.73	108.20
1	AA	207	C	C1'-O4'-C4'	-6.91	104.38	109.90
1	AA	596	A	C6-C5-N7	-6.91	127.47	132.30
1	AA	727	G	C4-C5-C6	6.91	122.94	118.80
1	AA	1044	A	C4-C5-C6	-6.91	113.55	117.00
1	AA	1199	U	N3-C2-O2	-6.91	117.37	122.20
26	BB	1143	A	C6-C5-N7	6.91	137.13	132.30
26	BB	2206	C	C6-N1-C2	6.91	123.06	120.30
26	BB	2809	A	C5-N7-C8	6.91	107.35	103.90
1	AA	55	A	C8-N9-C4	6.90	108.56	105.80
1	AA	1492	A	O4'-C1'-N9	6.90	113.72	108.20
26	BB	1407	G	C4'-C3'-C2'	-6.90	95.70	102.60
26	BB	1887	C	C5-C6-N1	6.90	124.45	121.00
26	BB	1966	A	C4-C5-C6	6.90	120.45	117.00
26	BB	2414	G	C4-C5-N7	-6.90	108.04	110.80
26	BB	2672	U	O4'-C1'-N1	6.90	113.72	108.20
26	BB	2789	C	O4'-C1'-N1	6.90	113.72	108.20
1	AA	38	G	C5-N7-C8	-6.90	100.85	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1401	G	N9-C4-C5	6.90	108.16	105.40
15	AO	13	ARG	NE-CZ-NH2	-6.90	116.85	120.30
25	BA	119	A	N1-C2-N3	6.90	132.75	129.30
26	BB	333	G	C8-N9-C4	-6.90	103.64	106.40
26	BB	384	A	C4'-C3'-C2'	6.90	109.50	102.60
26	BB	628	G	C1'-O4'-C4'	-6.90	104.38	109.90
26	BB	1287	A	C5-C6-N1	-6.90	114.25	117.70
26	BB	1438	U	N3-C4-C5	-6.90	110.46	114.60
26	BB	2181	U	N1-C2-O2	6.90	127.63	122.80
26	BB	2470	G	C1'-O4'-C4'	-6.90	104.38	109.90
26	BB	2867	G	C6-N1-C2	-6.90	120.96	125.10
53	B2	56	ARG	NE-CZ-NH1	6.90	123.75	120.30
1	AA	647	C	C5-C6-N1	6.90	124.45	121.00
1	AA	951	G	N3-C4-C5	-6.90	125.15	128.60
1	AA	1168	U	C6-N1-C2	-6.90	116.86	121.00
2	AB	72	U	C5-C6-N1	-6.90	119.25	122.70
26	BB	405	U	C2-N3-C4	-6.90	122.86	127.00
26	BB	1338	G	C8-N9-C4	-6.90	103.64	106.40
26	BB	1483	G	N3-C4-N9	6.90	130.14	126.00
26	BB	2118	U	O4'-C1'-C2'	-6.90	98.90	105.80
26	BB	2395	C	O4'-C1'-N1	6.90	113.72	108.20
26	BB	2530	A	N9-C1'-C2'	-6.90	104.41	112.00
26	BB	1384	A	N9-C4-C5	6.90	108.56	105.80
26	BB	1981	A	N1-C6-N6	-6.90	114.46	118.60
1	AA	561	U	N1-C2-N3	6.90	119.04	114.90
1	AA	787	A	O4'-C1'-N9	6.90	113.72	108.20
1	AA	997	U	N3-C4-C5	-6.90	110.46	114.60
1	AA	1204	A	N1-C2-N3	-6.90	125.85	129.30
1	AA	1271	A	N1-C6-N6	-6.90	114.46	118.60
26	BB	22	C	C4'-C3'-C2'	-6.90	95.70	102.60
26	BB	824	U	O4'-C1'-N1	6.90	113.72	108.20
26	BB	996	A	C8-N9-C4	-6.90	103.04	105.80
26	BB	1308	A	N1-C2-N3	6.90	132.75	129.30
26	BB	2451	A	N1-C2-N3	-6.90	125.85	129.30
26	BB	2501	C	P-O3'-C3'	6.90	127.98	119.70
26	BB	2518	A	P-O3'-C3'	6.90	127.98	119.70
26	BB	2747	G	C5-N7-C8	-6.90	100.85	104.30
45	BU	110	ARG	NE-CZ-NH2	6.90	123.75	120.30
1	AA	338	A	C4-C5-N7	6.90	114.15	110.70
2	AB	1	A	N1-C2-N3	-6.90	125.85	129.30
26	BB	1107	G	O4'-C1'-N9	6.90	113.72	108.20
26	BB	1622	G	N9-C4-C5	6.90	108.16	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2744	G	C6-N1-C2	-6.90	120.96	125.10
45	BU	87	PRO	N-CD-CG	6.90	113.54	103.20
1	AA	473	U	N3-C2-O2	-6.89	117.37	122.20
1	AA	1136	C	C5-C6-N1	6.89	124.45	121.00
1	AA	1376	U	N1-C2-O2	-6.89	117.97	122.80
1	AA	1436	U	N1-C2-N3	6.89	119.04	114.90
4	AD	59	A	N7-C8-N9	6.89	117.25	113.80
4	AD	60	A	C5-C6-N6	-6.89	118.18	123.70
26	BB	91	A	C1'-O4'-C4'	-6.89	104.39	109.90
26	BB	897	C	C1'-O4'-C4'	-6.89	104.38	109.90
26	BB	1127	A	O4'-C1'-N9	-6.89	102.68	108.20
26	BB	1617	C	O4'-C1'-N1	6.89	113.72	108.20
26	BB	2157	G	C5-C6-N1	-6.89	108.05	111.50
1	AA	152	A	C3'-C2'-C1'	6.89	107.01	101.50
1	AA	327	A	C6-N1-C2	6.89	122.74	118.60
1	AA	739	C	N1-C1'-C2'	-6.89	104.42	112.00
2	AB	47	U	O4'-C1'-N1	6.89	113.72	108.20
4	AD	43	G	N3-C4-C5	6.89	132.05	128.60
26	BB	32	C	N3-C2-O2	-6.89	117.08	121.90
26	BB	468	G	C2-N3-C4	-6.89	108.45	111.90
26	BB	535	G	C4-C5-N7	-6.89	108.04	110.80
1	AA	168	G	N3-C4-C5	-6.89	125.16	128.60
1	AA	666	G	C2-N3-C4	6.89	115.34	111.90
1	AA	1140	C	N1-C2-N3	6.89	124.02	119.20
25	BA	51	G	C5-N7-C8	-6.89	100.85	104.30
26	BB	900	A	C8-N9-C4	6.89	108.56	105.80
26	BB	1871	A	C4'-C3'-C2'	-6.89	95.71	102.60
1	AA	381	C	C4-C5-C6	-6.89	113.95	117.40
1	AA	1257	A	C2-N3-C4	6.89	114.05	110.60
3	AC	32	U	C3'-C2'-C1'	6.89	107.01	101.50
4	AD	44	A	C5-C6-N1	6.89	121.14	117.70
26	BB	83	A	C4'-C3'-C2'	-6.89	95.71	102.60
26	BB	1475	G	P-O3'-C3'	6.89	127.97	119.70
26	BB	1638	C	C5-C6-N1	-6.89	117.56	121.00
26	BB	1663	G	N9-C4-C5	6.89	108.16	105.40
26	BB	1850	G	C5-N7-C8	-6.89	100.86	104.30
26	BB	305	C	C3'-C2'-C1'	6.89	107.01	101.50
26	BB	930	G	C2-N3-C4	6.89	115.34	111.90
26	BB	1004	U	C5-C6-N1	6.89	126.14	122.70
1	AA	1079	G	C3'-C2'-C1'	6.89	107.01	101.50
1	AA	1099	G	N9-C4-C5	6.89	108.15	105.40
3	AC	17	U	O4'-C1'-C2'	-6.89	98.91	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AV	59	VAL	CA-CB-CG1	6.89	121.23	110.90
26	BB	218	A	N1-C2-N3	-6.89	125.86	129.30
26	BB	848	C	O4'-C1'-N1	6.89	113.71	108.20
26	BB	917	A	N3-C4-C5	-6.89	121.98	126.80
26	BB	1441	G	C4-C5-N7	6.89	113.55	110.80
1	AA	266	G	N3-C4-N9	6.88	130.13	126.00
1	AA	1371	G	C2-N3-C4	6.88	115.34	111.90
4	AD	74	A	C4-C5-C6	-6.88	113.56	117.00
26	BB	399	U	C5-C4-O4	6.88	130.03	125.90
26	BB	819	A	O4'-C1'-N9	6.88	113.71	108.20
26	BB	994	C	N3-C4-N4	6.88	122.82	118.00
26	BB	1894	C	C6-N1-C2	-6.88	117.55	120.30
26	BB	2204	G	N1-C2-N3	-6.88	119.77	123.90
26	BB	2465	C	N1-C1'-C2'	-6.88	104.43	112.00
26	BB	2534	A	P-O3'-C3'	6.88	127.96	119.70
1	AA	9	G	N9-C1'-C2'	-6.88	104.43	112.00
1	AA	881	G	N1-C2-N2	6.88	122.39	116.20
26	BB	768	G	C1'-O4'-C4'	6.88	115.41	109.90
26	BB	978	G	C5-C6-N1	6.88	114.94	111.50
26	BB	1001	A	C4-C5-N7	-6.88	107.26	110.70
26	BB	1199	U	N3-C4-O4	6.88	124.22	119.40
26	BB	1396	U	C6-N1-C2	-6.88	116.87	121.00
26	BB	2247	A	C6-N1-C2	-6.88	114.47	118.60
1	AA	262	A	N9-C1'-C2'	-6.88	104.43	112.00
1	AA	693	G	N7-C8-N9	-6.88	109.66	113.10
4	AD	49	C	C5-C6-N1	6.88	124.44	121.00
26	BB	382	A	C4-C5-N7	-6.88	107.26	110.70
26	BB	802	A	C5-C6-N6	-6.88	118.20	123.70
26	BB	981	A	C5-C6-N1	6.88	121.14	117.70
26	BB	1482	G	N9-C4-C5	-6.88	102.65	105.40
26	BB	1531	C	N1-C2-O2	6.88	123.03	118.90
26	BB	1597	A	N3-C4-C5	-6.88	121.98	126.80
26	BB	1820	U	C4-C5-C6	6.88	123.83	119.70
26	BB	2308	G	N1-C6-O6	6.88	124.03	119.90
26	BB	2425	A	C2'-C3'-O3'	6.88	124.71	113.70
26	BB	2668	G	C4-C5-N7	-6.88	108.05	110.80
26	BB	897	C	N3-C2-O2	-6.88	117.08	121.90
26	BB	1921	G	O4'-C1'-N9	6.88	113.70	108.20
26	BB	1945	G	N1-C2-N3	-6.88	119.77	123.90
26	BB	2670	A	P-O3'-C3'	6.88	127.96	119.70
1	AA	205	A	N3-C4-C5	-6.88	121.98	126.80
1	AA	353	A	P-O3'-C3'	-6.88	111.45	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	547	A	O4'-C1'-C2'	-6.88	98.92	105.80
1	AA	713	G	C4'-C3'-C2'	-6.88	95.72	102.60
1	AA	813	U	C5-C4-O4	-6.88	121.77	125.90
26	BB	383	C	C3'-C2'-C1'	6.88	107.00	101.50
26	BB	610	C	N1-C2-O2	6.88	123.03	118.90
26	BB	702	U	P-O3'-C3'	6.88	127.95	119.70
26	BB	1547	C	C6-N1-C2	6.88	123.05	120.30
26	BB	1588	G	C5-N7-C8	-6.88	100.86	104.30
26	BB	2369	A	C4'-C3'-C2'	-6.88	95.72	102.60
26	BB	2649	C	C6-N1-C2	-6.88	117.55	120.30
1	AA	31	G	N3-C2-N2	-6.88	115.09	119.90
1	AA	60	A	N7-C8-N9	6.88	117.24	113.80
1	AA	685	G	N1-C6-O6	6.88	124.03	119.90
1	AA	1333	A	C2-N3-C4	6.88	114.04	110.60
25	BA	92	C	N3-C4-C5	-6.88	119.15	121.90
26	BB	838	C	C2-N3-C4	6.88	123.34	119.90
26	BB	925	A	C5-C6-N1	-6.88	114.26	117.70
26	BB	1372	U	C5'-C4'-O4'	6.88	117.35	109.10
26	BB	1413	A	C4-C5-C6	-6.88	113.56	117.00
26	BB	2158	A	N1-C6-N6	-6.88	114.47	118.60
26	BB	2162	G	C4-C5-N7	-6.88	108.05	110.80
26	BB	2317	A	C8-N9-C4	-6.88	103.05	105.80
26	BB	2694	G	C1'-O4'-C4'	6.88	115.40	109.90
1	AA	993	G	C8-N9-C1'	-6.88	118.06	127.00
1	AA	1057	G	C5-C6-O6	-6.88	124.47	128.60
26	BB	1193	G	C8-N9-C4	-6.88	103.65	106.40
26	BB	2271	G	N9-C4-C5	6.88	108.15	105.40
26	BB	2831	G	C5'-C4'-O4'	6.88	117.35	109.10
26	BB	2897	U	C3'-C2'-C1'	6.88	107.00	101.50
1	AA	187	G	C2-N3-C4	6.87	115.34	111.90
1	AA	1353	G	N1-C2-N2	-6.87	110.01	116.20
26	BB	1260	A	P-O3'-C3'	6.87	127.95	119.70
26	BB	2826	A	C5-C6-N6	-6.87	118.20	123.70
26	BB	2840	C	N3-C4-C5	-6.87	119.15	121.90
1	AA	1260	G	N3-C4-C5	-6.87	125.16	128.60
26	BB	23	G	C5'-C4'-O4'	6.87	117.35	109.10
26	BB	167	A	C4'-C3'-C2'	-6.87	95.73	102.60
26	BB	484	C	C5-C6-N1	6.87	124.44	121.00
26	BB	800	A	C5-N7-C8	-6.87	100.46	103.90
26	BB	1830	C	C3'-C2'-C1'	6.87	107.00	101.50
26	BB	2083	G	C5-N7-C8	-6.87	100.86	104.30
26	BB	2156	G	C8-N9-C4	-6.87	103.65	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2337	G	O4'-C1'-N9	6.87	113.70	108.20
26	BB	2470	G	C8-N9-C4	-6.87	103.65	106.40
1	AA	636	U	C4'-C3'-C2'	-6.87	95.73	102.60
1	AA	792	A	C6-C5-N7	6.87	137.11	132.30
26	BB	974	G	N9-C4-C5	-6.87	102.65	105.40
26	BB	1161	C	N1-C2-O2	6.87	123.02	118.90
1	AA	1286	U	C5'-C4'-O4'	6.87	117.34	109.10
3	AC	47	C	C5-C6-N1	-6.87	117.57	121.00
26	BB	1763	G	N3-C4-N9	-6.87	121.88	126.00
26	BB	1784	A	C8-N9-C4	-6.87	103.05	105.80
26	BB	2235	G	N3-C4-C5	-6.87	125.17	128.60
26	BB	2370	G	O4'-C1'-N9	6.87	113.69	108.20
26	BB	2391	G	N1-C2-N2	6.87	122.38	116.20
26	BB	2594	C	C5-C6-N1	6.87	124.43	121.00
26	BB	2688	G	N7-C8-N9	6.87	116.53	113.10
26	BB	1275	A	N7-C8-N9	6.87	117.23	113.80
26	BB	1756	G	C6-N1-C2	-6.87	120.98	125.10
57	B6	53	ASP	CB-CG-OD1	-6.87	112.12	118.30
1	AA	1122	U	O4'-C1'-N1	6.87	113.69	108.20
1	AA	1130	A	C4-C5-N7	-6.87	107.27	110.70
1	AA	1258	G	C5-C6-O6	-6.87	124.48	128.60
1	AA	1266	G	C5-C6-N1	6.87	114.93	111.50
1	AA	1471	U	N1-C2-N3	6.87	119.02	114.90
4	AD	10	G	C5-C6-N1	6.87	114.93	111.50
4	AD	12	G	C5-C6-N1	6.87	114.93	111.50
26	BB	542	C	N3-C2-O2	-6.87	117.09	121.90
26	BB	753	A	N1-C2-N3	6.87	132.73	129.30
26	BB	1001	A	N1-C6-N6	6.87	122.72	118.60
26	BB	1155	A	N7-C8-N9	-6.87	110.37	113.80
26	BB	2096	C	C6-N1-C2	6.87	123.05	120.30
26	BB	2361	G	N3-C2-N2	6.87	124.71	119.90
26	BB	2401	U	N1-C2-O2	-6.87	117.99	122.80
40	BP	112	TYR	CB-CG-CD1	6.87	125.12	121.00
1	AA	202	G	C5-C6-N1	6.86	114.93	111.50
1	AA	1262	C	C4-C5-C6	-6.86	113.97	117.40
26	BB	264	C	C5-C6-N1	-6.86	117.57	121.00
26	BB	388	G	C5-C6-O6	6.86	132.72	128.60
26	BB	1293	C	O4'-C1'-N1	6.86	113.69	108.20
26	BB	2136	G	N1-C6-O6	6.86	124.02	119.90
26	BB	2848	G	N7-C8-N9	-6.86	109.67	113.10
26	BB	2869	G	N9-C4-C5	6.86	108.14	105.40
26	BB	561	G	C1'-O4'-C4'	6.86	115.39	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	100	G	N7-C8-N9	6.86	116.53	113.10
1	AA	108	G	C8-N9-C4	-6.86	103.66	106.40
1	AA	888	G	N1-C2-N3	6.86	128.02	123.90
1	AA	992	U	C1'-O4'-C4'	-6.86	104.41	109.90
1	AA	1081	A	N1-C2-N3	-6.86	125.87	129.30
1	AA	1342	C	N3-C4-N4	-6.86	113.20	118.00
1	AA	1381	U	O4'-C1'-N1	6.86	113.69	108.20
4	AD	4	G	C4-C5-C6	-6.86	114.68	118.80
25	BA	82	U	N1-C2-N3	6.86	119.02	114.90
26	BB	508	A	N7-C8-N9	6.86	117.23	113.80
26	BB	596	U	C2-N3-C4	6.86	131.12	127.00
26	BB	627	A	O4'-C4'-C3'	6.86	111.59	106.10
26	BB	630	G	N3-C4-C5	-6.86	125.17	128.60
26	BB	902	C	O4'-C1'-N1	6.86	113.69	108.20
26	BB	1256	G	C2-N3-C4	6.86	115.33	111.90
26	BB	1754	A	C4'-C3'-C2'	6.86	109.46	102.60
1	AA	42	G	N9-C4-C5	6.86	108.14	105.40
1	AA	135	C	C4'-C3'-C2'	-6.86	95.74	102.60
3	AC	22	G	P-O3'-C3'	6.86	127.93	119.70
26	BB	85	G	C5'-C4'-O4'	6.86	117.33	109.10
26	BB	550	C	C5-C6-N1	6.86	124.43	121.00
26	BB	2438	U	N1-C2-N3	6.86	119.02	114.90
26	BB	2765	A	C5'-C4'-O4'	6.86	117.33	109.10
26	BB	2824	C	C5-C4-N4	-6.86	115.40	120.20
1	AA	379	C	N3-C2-O2	-6.86	117.10	121.90
1	AA	1279	G	N1-C6-O6	-6.86	115.79	119.90
1	AA	1391	U	C2-N3-C4	-6.86	122.89	127.00
26	BB	254	G	N1-C2-N2	6.86	122.37	116.20
26	BB	791	C	N1-C2-O2	6.86	123.01	118.90
26	BB	916	G	N3-C4-N9	6.86	130.12	126.00
26	BB	1669	A	C8-N9-C4	-6.86	103.06	105.80
26	BB	2018	G	O4'-C1'-N9	6.86	113.69	108.20
1	AA	6	G	N3-C2-N2	-6.86	115.10	119.90
1	AA	83	C	C3'-C2'-C1'	6.86	106.98	101.50
4	AD	71	G	C4-C5-N7	6.86	113.54	110.80
25	BA	59	A	C5-N7-C8	-6.86	100.47	103.90
25	BA	90	C	C5-C6-N1	-6.86	117.57	121.00
26	BB	635	C	C5'-C4'-O4'	6.86	117.33	109.10
26	BB	906	U	C5-C4-O4	-6.86	121.79	125.90
26	BB	2511	U	C5-C4-O4	-6.86	121.79	125.90
1	AA	1484	C	O4'-C1'-N1	6.85	113.68	108.20
26	BB	916	G	N1-C2-N3	-6.85	119.79	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	413	G	N9-C4-C5	6.85	108.14	105.40
1	AA	1233	G	N3-C2-N2	-6.85	115.10	119.90
1	AA	1411	C	C5'-C4'-O4'	6.85	117.32	109.10
25	BA	70	C	N3-C2-O2	-6.85	117.10	121.90
26	BB	92	U	C5-C4-O4	-6.85	121.79	125.90
26	BB	277	G	C3'-C2'-C1'	6.85	106.98	101.50
26	BB	785	G	C5-C6-N1	6.85	114.93	111.50
26	BB	1277	G	C4-C5-N7	-6.85	108.06	110.80
26	BB	2157	G	C4-C5-C6	6.85	122.91	118.80
26	BB	2858	C	O4'-C1'-N1	6.85	113.68	108.20
26	BB	2872	A	P-O3'-C3'	6.85	127.92	119.70
1	AA	591	U	C3'-C2'-C1'	-6.85	96.02	101.50
4	AD	62	C	C2-N3-C4	6.85	123.33	119.90
26	BB	334	C	O4'-C1'-N1	6.85	113.68	108.20
26	BB	714	U	C5'-C4'-O4'	6.85	117.32	109.10
26	BB	855	G	C2-N3-C4	-6.85	108.47	111.90
26	BB	2096	C	C5-C4-N4	6.85	125.00	120.20
26	BB	2355	G	C4'-C3'-C2'	-6.85	95.75	102.60
1	AA	317	U	O4'-C1'-N1	6.85	113.68	108.20
1	AA	397	A	C8-N9-C4	-6.85	103.06	105.80
1	AA	809	G	N3-C2-N2	-6.85	115.11	119.90
1	AA	844	G	C4-C5-N7	6.85	113.54	110.80
1	AA	1067	A	C4-C5-N7	6.85	114.12	110.70
26	BB	197	A	C5-C6-N1	6.85	121.12	117.70
26	BB	490	C	O4'-C1'-N1	6.85	113.68	108.20
26	BB	706	A	C6-N1-C2	6.85	122.71	118.60
26	BB	794	A	O4'-C1'-N9	6.85	113.68	108.20
26	BB	874	G	C8-N9-C4	-6.85	103.66	106.40
26	BB	956	G	C5'-C4'-C3'	-6.85	105.04	116.00
26	BB	1108	U	N3-C2-O2	-6.85	117.41	122.20
26	BB	1799	G	C4-C5-N7	-6.85	108.06	110.80
26	BB	1860	G	C6-C5-N7	-6.85	126.29	130.40
26	BB	1963	U	N3-C4-O4	6.85	124.19	119.40
26	BB	2099	U	C3'-C2'-C1'	-6.85	96.02	101.50
26	BB	2262	U	O4'-C1'-N1	6.85	113.68	108.20
1	AA	335	C	O5'-P-OP1	-6.85	99.54	105.70
1	AA	470	C	C2-N3-C4	6.85	123.32	119.90
1	AA	1164	G	N3-C4-C5	-6.85	125.18	128.60
1	AA	1386	G	O4'-C1'-N9	6.85	113.68	108.20
26	BB	829	A	C5'-C4'-C3'	-6.85	105.04	116.00
26	BB	1756	G	C5-C6-O6	6.85	132.71	128.60
26	BB	2116	G	C6-N1-C2	-6.85	120.99	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2348	U	C5-C6-N1	-6.85	119.28	122.70
26	BB	2489	U	N1-C2-O2	6.85	127.59	122.80
26	BB	2703	C	O4'-C1'-N1	6.85	113.68	108.20
7	AG	183	ARG	NE-CZ-NH2	-6.85	116.88	120.30
1	AA	506	G	N7-C8-N9	-6.84	109.68	113.10
1	AA	834	U	O4'-C1'-N1	6.84	113.68	108.20
1	AA	1047	G	C4'-C3'-C2'	-6.84	95.75	102.60
1	AA	1204	A	C2-N3-C4	6.84	114.02	110.60
1	AA	1300	G	N1-C2-N3	-6.84	119.79	123.90
26	BB	791	C	C4-C5-C6	6.84	120.82	117.40
26	BB	1214	A	C4-C5-C6	-6.84	113.58	117.00
26	BB	1325	U	C5'-C4'-C3'	-6.84	105.05	116.00
26	BB	1475	G	N3-C2-N2	6.84	124.69	119.90
26	BB	2054	A	O4'-C1'-N9	-6.84	102.72	108.20
26	BB	2867	G	N1-C6-O6	-6.84	115.79	119.90
1	AA	170	U	C1'-O4'-C4'	-6.84	104.42	109.90
1	AA	597	G	N9-C4-C5	6.84	108.14	105.40
26	BB	651	G	N3-C4-C5	-6.84	125.18	128.60
26	BB	1071	G	C8-N9-C4	-6.84	103.66	106.40
28	BD	181	ARG	NH1-CZ-NH2	-6.84	111.87	119.40
1	AA	372	C	C5'-C4'-O4'	-6.84	100.89	109.10
1	AA	425	G	N1-C2-N3	6.84	128.00	123.90
1	AA	456	A	C8-N9-C4	-6.84	103.06	105.80
1	AA	536	C	N1-C2-N3	6.84	123.99	119.20
1	AA	826	C	N1-C2-O2	-6.84	114.80	118.90
1	AA	1113	C	C6-N1-C2	-6.84	117.56	120.30
1	AA	1491	G	C3'-C2'-C1'	6.84	106.97	101.50
26	BB	148	U	O4'-C1'-N1	6.84	113.67	108.20
26	BB	1005	C	N3-C4-N4	6.84	122.79	118.00
26	BB	2102	G	C5-C6-N1	6.84	114.92	111.50
26	BB	2112	G	C5-C6-N1	-6.84	108.08	111.50
26	BB	2380	C	C2-N3-C4	-6.84	116.48	119.90
1	AA	348	G	C2-N3-C4	6.84	115.32	111.90
1	AA	350	G	N1-C2-N3	-6.84	119.80	123.90
1	AA	617	G	N1-C2-N2	-6.84	110.05	116.20
1	AA	815	A	N7-C8-N9	-6.84	110.38	113.80
1	AA	1392	G	C6-N1-C2	-6.84	121.00	125.10
14	AN	17	ASP	CB-CG-OD2	-6.84	112.14	118.30
26	BB	378	C	N3-C4-C5	-6.84	119.16	121.90
26	BB	403	U	N3-C4-C5	6.84	118.70	114.60
26	BB	1997	C	N3-C4-C5	-6.84	119.16	121.90
26	BB	2766	A	C4-C5-C6	-6.84	113.58	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	BP	22	ARG	CD-NE-CZ	6.84	133.18	123.60
25	BA	79	G	C4-C5-N7	6.84	113.53	110.80
26	BB	38	A	C6-N1-C2	-6.84	114.50	118.60
26	BB	1215	G	C5'-C4'-O4'	6.84	117.31	109.10
26	BB	1642	G	C8-N9-C4	6.84	109.14	106.40
1	AA	155	A	C5-N7-C8	-6.84	100.48	103.90
1	AA	266	G	N9-C4-C5	-6.84	102.67	105.40
1	AA	1024	G	C6-N1-C2	-6.84	121.00	125.10
1	AA	1223	C	C2-N3-C4	6.84	123.32	119.90
1	AA	1534	A	O4'-C4'-C3'	6.84	111.57	106.10
3	AC	15	G	O4'-C1'-N9	-6.84	102.73	108.20
25	BA	21	G	C4-N9-C1'	-6.84	117.61	126.50
26	BB	63	A	C5-C6-N6	-6.84	118.23	123.70
26	BB	1090	A	C6-N1-C2	-6.84	114.50	118.60
26	BB	1248	G	N7-C8-N9	6.84	116.52	113.10
26	BB	1496	A	N9-C4-C5	6.84	108.53	105.80
26	BB	1504	A	C5-C6-N1	-6.84	114.28	117.70
26	BB	1607	C	C5-C6-N1	-6.84	117.58	121.00
26	BB	1735	A	C8-N9-C4	-6.84	103.07	105.80
26	BB	1798	U	C4-C5-C6	6.84	123.80	119.70
26	BB	2543	G	C4-C5-N7	-6.84	108.07	110.80
26	BB	2864	G	N7-C8-N9	-6.84	109.68	113.10
26	BB	2049	G	C2-N3-C4	6.83	115.32	111.90
26	BB	2848	G	C4-C5-N7	-6.83	108.07	110.80
28	BD	260	LYS	CB-CA-C	6.83	124.07	110.40
1	AA	454	G	C4-C5-C6	6.83	122.90	118.80
1	AA	592	G	C5'-C4'-O4'	6.83	117.30	109.10
26	BB	169	G	O4'-C1'-N9	6.83	113.67	108.20
26	BB	275	C	O4'-C1'-N1	6.83	113.67	108.20
26	BB	845	A	C6-C5-N7	-6.83	127.52	132.30
26	BB	1370	C	C1'-O4'-C4'	6.83	115.37	109.90
26	BB	1861	G	O4'-C1'-N9	6.83	113.67	108.20
1	AA	901	A	C8-N9-C4	-6.83	103.07	105.80
1	AA	1449	C	C4-C5-C6	-6.83	113.98	117.40
25	BA	25	U	O4'-C1'-C2'	-6.83	98.97	105.80
26	BB	201	C	N1-C2-O2	6.83	123.00	118.90
26	BB	752	A	C5-C6-N1	-6.83	114.28	117.70
26	BB	1035	U	C1'-O4'-C4'	6.83	115.36	109.90
26	BB	1901	A	C5-C6-N6	6.83	129.16	123.70
1	AA	545	C	C5-C4-N4	-6.83	115.42	120.20
1	AA	933	G	O4'-C1'-C2'	-6.83	98.97	105.80
26	BB	800	A	N1-C6-N6	6.83	122.70	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	845	A	C5-N7-C8	-6.83	100.48	103.90
26	BB	979	A	C3'-C2'-C1'	6.83	106.96	101.50
26	BB	1757	A	N1-C6-N6	-6.83	114.50	118.60
26	BB	2387	U	N1-C1'-C2'	6.83	122.88	114.00
43	BS	27	ARG	NE-CZ-NH1	6.83	123.72	120.30
1	AA	734	G	N1-C2-N3	-6.83	119.80	123.90
1	AA	1141	C	N3-C2-O2	-6.83	117.12	121.90
1	AA	1287	A	C6-N1-C2	-6.83	114.50	118.60
3	AC	54	U	C3'-C2'-C1'	6.83	106.96	101.50
26	BB	184	C	P-O3'-C3'	6.83	127.89	119.70
26	BB	592	A	C8-N9-C4	-6.83	103.07	105.80
26	BB	862	G	N3-C4-C5	-6.83	125.19	128.60
26	BB	1063	G	C8-N9-C1'	6.83	135.88	127.00
26	BB	1187	G	C3'-C2'-C1'	-6.83	96.04	101.50
26	BB	1787	A	C6-C5-N7	-6.83	127.52	132.30
26	BB	2380	C	P-O3'-C3'	6.83	127.89	119.70
26	BB	2429	G	N1-C2-N3	6.83	128.00	123.90
26	BB	2466	C	N3-C4-N4	6.83	122.78	118.00
1	AA	164	G	C2-N3-C4	6.83	115.31	111.90
1	AA	337	G	N9-C1'-C2'	-6.83	104.49	112.00
1	AA	827	U	N3-C2-O2	-6.83	117.42	122.20
1	AA	844	G	C6-C5-N7	-6.83	126.30	130.40
3	AC	30	U	C2-N3-C4	-6.83	122.90	127.00
26	BB	1432	G	C3'-C2'-C1'	-6.83	96.04	101.50
26	BB	1846	G	C5'-C4'-C3'	-6.83	105.08	116.00
26	BB	2004	G	O5'-C5'-C4'	6.83	124.67	111.70
26	BB	2041	U	C4-C5-C6	6.83	123.80	119.70
1	AA	993	G	O4'-C4'-C3'	6.82	111.56	106.10
1	AA	1320	C	C4'-C3'-C2'	-6.82	95.78	102.60
2	AB	71	C	C5-C4-N4	-6.82	115.42	120.20
26	BB	115	C	N3-C2-O2	-6.82	117.12	121.90
26	BB	120	U	C3'-C2'-C1'	6.82	106.96	101.50
26	BB	776	G	C6-N1-C2	-6.82	121.01	125.10
26	BB	811	U	N1-C1'-C2'	-6.82	104.50	112.00
26	BB	1313	U	N1-C2-O2	6.82	127.58	122.80
26	BB	1455	G	N7-C8-N9	6.82	116.51	113.10
26	BB	2205	A	N9-C4-C5	6.82	108.53	105.80
26	BB	2327	A	C5'-C4'-C3'	-6.82	105.08	116.00
26	BB	2371	G	N1-C2-N3	-6.82	119.81	123.90
26	BB	2415	G	C5-N7-C8	6.82	107.71	104.30
26	BB	2800	A	O4'-C1'-N9	6.82	113.66	108.20
26	BB	2825	G	N1-C6-O6	-6.82	115.81	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1181	G	O4'-C4'-C3'	6.82	111.56	106.10
25	BA	104	A	C8-N9-C4	-6.82	103.07	105.80
26	BB	477	A	C8-N9-C4	-6.82	103.07	105.80
26	BB	1323	C	N3-C4-C5	-6.82	119.17	121.90
26	BB	1579	A	C8-N9-C4	-6.82	103.07	105.80
26	BB	1936	A	N7-C8-N9	6.82	117.21	113.80
26	BB	2833	U	C2-N3-C4	-6.82	122.91	127.00
1	AA	312	C	C5'-C4'-O4'	6.82	117.28	109.10
1	AA	1058	G	C1'-O4'-C4'	6.82	115.36	109.90
1	AA	1172	C	O4'-C1'-N1	6.82	113.66	108.20
21	AU	63	TYR	CB-CG-CD2	-6.82	116.91	121.00
25	BA	51	G	N1-C6-O6	6.82	123.99	119.90
26	BB	133	U	C4-C5-C6	6.82	123.79	119.70
26	BB	182	A	C8-N9-C4	-6.82	103.07	105.80
26	BB	959	A	O4'-C1'-N9	6.82	113.66	108.20
26	BB	1319	C	N3-C4-C5	6.82	124.63	121.90
26	BB	1464	G	C4-C5-C6	6.82	122.89	118.80
26	BB	1836	C	C5-C4-N4	6.82	124.97	120.20
26	BB	1844	C	N1-C1'-C2'	-6.82	104.50	112.00
26	BB	2405	G	C5-C6-N1	6.82	114.91	111.50
26	BB	2546	U	N1-C2-O2	-6.82	118.03	122.80
26	BB	2607	G	N1-C2-N3	-6.82	119.81	123.90
26	BB	2830	C	C3'-C2'-C1'	-6.82	96.04	101.50
1	AA	208	U	N3-C2-O2	-6.82	117.43	122.20
1	AA	272	C	N1-C2-O2	6.82	122.99	118.90
1	AA	823	C	C3'-C2'-C1'	-6.82	96.05	101.50
1	AA	1422	G	C8-N9-C4	-6.82	103.67	106.40
26	BB	733	G	C2-N3-C4	6.82	115.31	111.90
1	AA	1	A	N9-C4-C5	-6.82	103.07	105.80
1	AA	140	U	O4'-C1'-N1	6.82	113.65	108.20
1	AA	774	G	N3-C4-N9	6.82	130.09	126.00
2	AB	26	A	P-O5'-C5'	6.82	131.81	120.90
15	AO	55	ARG	NE-CZ-NH1	6.82	123.71	120.30
26	BB	22	C	N1-C2-O2	6.82	122.99	118.90
26	BB	733	G	C5-C6-O6	-6.82	124.51	128.60
26	BB	738	G	N1-C2-N3	6.82	127.99	123.90
26	BB	1827	U	N3-C2-O2	-6.82	117.43	122.20
26	BB	2456	C	C4-C5-C6	-6.82	113.99	117.40
26	BB	2495	G	C2-N3-C4	6.82	115.31	111.90
1	AA	26	A	C5-N7-C8	-6.82	100.49	103.90
1	AA	618	C	O4'-C4'-C3'	6.82	111.55	106.10
3	AC	38	G	C5'-C4'-O4'	6.82	117.28	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	341	C	O4'-C1'-N1	6.82	113.65	108.20
26	BB	452	G	P-O3'-C3'	6.82	127.88	119.70
26	BB	819	A	N9-C4-C5	-6.82	103.07	105.80
26	BB	1020	A	N9-C4-C5	6.82	108.53	105.80
26	BB	1176	U	C4'-C3'-C2'	-6.82	95.78	102.60
26	BB	1577	C	N3-C4-C5	-6.82	119.17	121.90
26	BB	1870	C	P-O3'-C3'	6.82	127.88	119.70
26	BB	2184	A	N1-C6-N6	-6.82	114.51	118.60
26	BB	2703	C	N3-C4-N4	6.82	122.77	118.00
28	BD	188	ARG	NE-CZ-NH1	6.82	123.71	120.30
1	AA	384	G	C6-C5-N7	-6.81	126.31	130.40
1	AA	446	G	C5-C6-N1	6.81	114.91	111.50
1	AA	1425	U	C2-N3-C4	-6.81	122.91	127.00
1	AA	1531	A	O4'-C1'-N9	6.81	113.65	108.20
4	AD	27	G	C8-N9-C4	-6.81	103.67	106.40
25	BA	75	G	C6-C5-N7	-6.81	126.31	130.40
26	BB	651	G	C4-C5-C6	6.81	122.89	118.80
26	BB	1194	A	C4-C5-C6	6.81	120.41	117.00
26	BB	1434	A	C5-N7-C8	-6.81	100.49	103.90
26	BB	2444	G	C6-N1-C2	-6.81	121.01	125.10
26	BB	2557	G	C1'-O4'-C4'	-6.81	104.45	109.90
1	AA	213	G	C5-C6-N1	6.81	114.91	111.50
1	AA	391	G	C8-N9-C4	-6.81	103.67	106.40
1	AA	1164	G	N9-C4-C5	6.81	108.12	105.40
1	AA	1413	A	P-O3'-C3'	6.81	127.87	119.70
26	BB	338	G	C6-C5-N7	-6.81	126.31	130.40
26	BB	1963	U	N3-C2-O2	-6.81	117.43	122.20
26	BB	2846	G	N9-C1'-C2'	-6.81	104.50	112.00
1	AA	844	G	C5-N7-C8	-6.81	100.89	104.30
26	BB	1044	C	O4'-C4'-C3'	-6.81	97.19	104.00
26	BB	2058	A	C8-N9-C4	-6.81	103.08	105.80
26	BB	2181	U	C5-C6-N1	-6.81	119.29	122.70
1	AA	314	C	N1-C2-O2	6.81	122.98	118.90
1	AA	431	A	C6-C5-N7	6.81	137.07	132.30
1	AA	709	U	C3'-C2'-C1'	6.81	106.95	101.50
1	AA	996	A	C6-C5-N7	6.81	137.07	132.30
1	AA	1034	G	N3-C4-N9	6.81	130.09	126.00
3	AC	41	A	C5-C6-N6	6.81	129.15	123.70
26	BB	217	A	C8-N9-C4	6.81	108.52	105.80
26	BB	1543	G	C4-C5-C6	6.81	122.89	118.80
26	BB	2153	C	C6-N1-C1'	-6.81	112.63	120.80
26	BB	2597	G	N3-C2-N2	-6.81	115.13	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2607	G	C4-C5-N7	-6.81	108.08	110.80
1	AA	492	C	C6-N1-C2	-6.81	117.58	120.30
26	BB	1	G	N3-C4-N9	6.81	130.08	126.00
26	BB	281	C	N3-C4-C5	-6.81	119.18	121.90
26	BB	917	A	O4'-C4'-C3'	6.81	111.55	106.10
26	BB	1222	U	C2-N3-C4	-6.81	122.92	127.00
26	BB	2591	C	N3-C4-N4	6.81	122.77	118.00
26	BB	2894	G	N1-C6-O6	6.81	123.98	119.90
32	BH	163	TYR	CG-CD2-CE2	-6.81	115.85	121.30
1	AA	256	U	N3-C4-O4	6.81	124.16	119.40
1	AA	505	G	C1'-O4'-C4'	-6.81	104.45	109.90
4	AD	27	G	N3-C4-C5	-6.81	125.20	128.60
57	B6	7	ARG	NE-CZ-NH2	-6.81	116.90	120.30
2	AB	49	G	O4'-C1'-N9	6.80	113.64	108.20
12	AL	17	ARG	NE-CZ-NH1	6.80	123.70	120.30
26	BB	221	A	N1-C6-N6	6.80	122.68	118.60
26	BB	1095	A	O4'-C1'-N9	6.80	113.64	108.20
26	BB	2253	G	N1-C2-N2	6.80	122.32	116.20
26	BB	2792	A	O4'-C1'-N9	6.80	113.64	108.20
1	AA	1151	A	P-O3'-C3'	6.80	127.86	119.70
1	AA	1502	A	C4-C5-N7	-6.80	107.30	110.70
2	AB	73	G	N3-C4-C5	-6.80	125.20	128.60
26	BB	1635	A	O4'-C4'-C3'	6.80	111.54	106.10
26	BB	1966	A	C4-C5-N7	-6.80	107.30	110.70
26	BB	2086	U	C1'-O4'-C4'	-6.80	104.46	109.90
1	AA	406	G	O4'-C1'-N9	-6.80	102.76	108.20
1	AA	818	G	C5'-C4'-O4'	6.80	117.26	109.10
3	AC	24	A	N1-C6-N6	6.80	122.68	118.60
26	BB	94	A	C2'-C3'-O3'	6.80	124.58	113.70
26	BB	463	G	C6-C5-N7	-6.80	126.32	130.40
26	BB	974	G	C6-N1-C2	-6.80	121.02	125.10
26	BB	1051	G	C5-C6-O6	-6.80	124.52	128.60
26	BB	1651	G	O4'-C1'-N9	6.80	113.64	108.20
26	BB	1955	U	C1'-O4'-C4'	-6.80	104.46	109.90
26	BB	2253	G	N3-C2-N2	-6.80	115.14	119.90
26	BB	2510	C	C1'-O4'-C4'	-6.80	104.46	109.90
55	B4	5	ARG	NE-CZ-NH2	6.80	123.70	120.30
1	AA	217	C	C2-N1-C1'	-6.80	111.32	118.80
3	AC	28	U	N3-C4-C5	-6.80	110.52	114.60
5	AE	136	ARG	NH1-CZ-NH2	-6.80	111.92	119.40
26	BB	490	C	O5'-P-OP2	-6.80	99.58	105.70
26	BB	612	G	C8-N9-C4	-6.80	103.68	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	672	C	N3-C4-C5	-6.80	119.18	121.90
26	BB	1275	A	C5'-C4'-O4'	6.80	117.26	109.10
26	BB	1961	C	C5-C4-N4	-6.80	115.44	120.20
26	BB	2141	G	C5'-C4'-O4'	6.80	117.26	109.10
50	BZ	10	ARG	NE-CZ-NH2	6.80	123.70	120.30
1	AA	180	U	N3-C2-O2	6.80	126.96	122.20
25	BA	60	C	C5-C4-N4	-6.80	115.44	120.20
26	BB	262	A	N7-C8-N9	-6.80	110.40	113.80
26	BB	689	A	N9-C4-C5	-6.80	103.08	105.80
26	BB	1047	G	N1-C6-O6	-6.80	115.82	119.90
26	BB	1928	A	C5-C6-N1	6.80	121.10	117.70
26	BB	2492	U	O4'-C1'-C2'	-6.80	99.00	105.80
1	AA	939	G	C5'-C4'-O4'	6.80	117.26	109.10
1	AA	948	C	C2-N3-C4	6.80	123.30	119.90
1	AA	1272	G	N3-C4-N9	6.80	130.08	126.00
1	AA	1367	C	N3-C4-C5	-6.80	119.18	121.90
1	AA	1465	A	N9-C4-C5	6.80	108.52	105.80
25	BA	68	C	C5-C4-N4	6.80	124.96	120.20
26	BB	327	G	N3-C4-N9	6.80	130.08	126.00
26	BB	969	G	N9-C1'-C2'	-6.80	104.52	112.00
26	BB	1477	A	N1-C6-N6	6.80	122.68	118.60
26	BB	1708	C	N3-C2-O2	-6.80	117.14	121.90
26	BB	1734	G	C4'-C3'-C2'	-6.80	95.80	102.60
26	BB	1886	U	C1'-O4'-C4'	6.80	115.34	109.90
26	BB	1922	G	C4-C5-C6	6.80	122.88	118.80
26	BB	1984	G	C2-N3-C4	6.80	115.30	111.90
1	AA	1084	G	N3-C4-C5	-6.79	125.20	128.60
26	BB	217	A	C5-C6-N1	6.79	121.10	117.70
26	BB	1474	U	O4'-C1'-N1	6.79	113.64	108.20
26	BB	1802	A	C4'-C3'-C2'	-6.79	95.81	102.60
26	BB	1888	G	C5-C6-N1	6.79	114.90	111.50
26	BB	2183	A	N1-C2-N3	-6.79	125.90	129.30
26	BB	2536	G	C5-N7-C8	-6.79	100.90	104.30
26	BB	2755	C	N3-C4-N4	-6.79	113.24	118.00
1	AA	536	C	O4'-C1'-N1	6.79	113.64	108.20
1	AA	849	G	N9-C4-C5	6.79	108.12	105.40
4	AD	16	C	C5'-C4'-C3'	-6.79	105.13	116.00
26	BB	713	G	C5-C6-O6	-6.79	124.52	128.60
26	BB	905	A	C5'-C4'-O4'	6.79	117.25	109.10
26	BB	911	A	C4-C5-C6	-6.79	113.60	117.00
26	BB	1780	A	N9-C4-C5	6.79	108.52	105.80
26	BB	2572	A	C2-N3-C4	6.79	114.00	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	139	U	N3-C4-C5	6.79	118.67	114.60
26	BB	1144	A	N9-C4-C5	6.79	108.52	105.80
26	BB	1883	U	N1-C2-O2	6.79	127.55	122.80
26	BB	2395	C	N1-C1'-C2'	-6.79	104.53	112.00
13	AM	97	ASP	CB-CG-OD2	-6.79	112.19	118.30
26	BB	460	A	C6-N1-C2	6.79	122.67	118.60
1	AA	50	A	N9-C4-C5	6.79	108.52	105.80
1	AA	635	A	C8-N9-C4	-6.79	103.08	105.80
1	AA	1184	G	C1'-O4'-C4'	6.79	115.33	109.90
1	AA	1335	U	C2-N3-C4	-6.79	122.93	127.00
2	AB	75	C	C5'-C4'-C3'	-6.79	105.14	116.00
3	AC	58	C	C3'-C2'-C1'	6.79	106.93	101.50
21	AU	21	ASP	CB-CG-OD2	6.79	124.41	118.30
26	BB	99	U	C5-C4-O4	-6.79	121.83	125.90
26	BB	1286	A	N3-C4-C5	-6.79	122.05	126.80
26	BB	1566	A	C6-N1-C2	6.79	122.67	118.60
26	BB	1736	U	P-O3'-C3'	6.79	127.85	119.70
26	BB	1891	G	N3-C4-N9	-6.79	121.93	126.00
26	BB	2669	G	C6-C5-N7	-6.79	126.33	130.40
1	AA	509	A	C3'-C2'-C1'	6.79	106.93	101.50
1	AA	1445	U	N3-C4-C5	6.79	118.67	114.60
26	BB	1781	U	N3-C4-O4	6.79	124.15	119.40
26	BB	2703	C	O4'-C1'-C2'	-6.79	99.01	105.80
26	BB	2756	U	P-O3'-C3'	6.79	127.84	119.70
1	AA	280	C	N3-C2-O2	-6.79	117.15	121.90
1	AA	361	G	N3-C2-N2	-6.79	115.15	119.90
1	AA	1166	G	N9-C4-C5	-6.79	102.69	105.40
10	AJ	155	TRP	CD1-CG-CD2	-6.79	100.87	106.30
26	BB	2346	A	N9-C1'-C2'	6.79	122.82	114.00
26	BB	2810	A	C5-N7-C8	-6.79	100.51	103.90
1	AA	238	A	N1-C2-N3	-6.78	125.91	129.30
1	AA	727	G	C6-C5-N7	-6.78	126.33	130.40
7	AG	181	PHE	CB-CG-CD2	-6.78	116.05	120.80
26	BB	146	A	C6-C5-N7	6.78	137.05	132.30
26	BB	570	G	C8-N9-C4	-6.78	103.69	106.40
26	BB	1311	G	C4-C5-N7	-6.78	108.09	110.80
26	BB	1763	G	N7-C8-N9	6.78	116.49	113.10
26	BB	2010	G	C2-N3-C4	6.78	115.29	111.90
25	BA	91	C	C6-N1-C2	-6.78	117.59	120.30
26	BB	764	A	C5-C6-N6	-6.78	118.27	123.70
26	BB	1136	G	C6-N1-C2	-6.78	121.03	125.10
26	BB	2617	U	N1-C2-N3	6.78	118.97	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	361	G	C4-C5-N7	-6.78	108.09	110.80
26	BB	297	G	N3-C2-N2	-6.78	115.15	119.90
26	BB	346	A	N1-C2-N3	-6.78	125.91	129.30
26	BB	616	A	C4-C5-N7	-6.78	107.31	110.70
26	BB	1035	U	N3-C4-O4	-6.78	114.65	119.40
26	BB	2483	C	N3-C2-O2	-6.78	117.15	121.90
26	BB	2530	A	N1-C6-N6	6.78	122.67	118.60
26	BB	2844	G	N7-C8-N9	6.78	116.49	113.10
38	BN	66	PHE	CB-CG-CD2	6.78	125.55	120.80
2	AB	5	G	C5-C6-N1	6.78	114.89	111.50
22	AV	59	VAL	CA-CB-CG2	-6.78	100.73	110.90
26	BB	547	A	N9-C4-C5	6.78	108.51	105.80
26	BB	1602	U	N3-C4-C5	-6.78	110.53	114.60
26	BB	2885	G	C5'-C4'-O4'	6.78	117.23	109.10
1	AA	197	A	C6-N1-C2	-6.78	114.53	118.60
1	AA	1069	C	C5-C4-N4	-6.78	115.45	120.20
1	AA	1377	A	N1-C2-N3	-6.78	125.91	129.30
1	AA	1479	C	N1-C2-O2	-6.78	114.83	118.90
2	AB	3	G	C6-N1-C2	-6.78	121.03	125.10
4	AD	31	G	N1-C2-N2	6.78	122.30	116.20
4	AD	69	C	N3-C4-N4	6.78	122.75	118.00
26	BB	253	C	N3-C4-C5	-6.78	119.19	121.90
26	BB	1088	A	C4-C5-N7	-6.78	107.31	110.70
26	BB	2157	G	C6-N1-C2	6.78	129.17	125.10
26	BB	2261	C	N3-C4-C5	-6.78	119.19	121.90
26	BB	2357	G	C4-C5-N7	-6.78	108.09	110.80
27	BC	95	VAL	CG1-CB-CG2	-6.78	100.06	110.90
1	AA	12	U	P-O3'-C3'	6.78	127.83	119.70
1	AA	105	G	P-O3'-C3'	6.78	127.83	119.70
26	BB	1053	C	C5'-C4'-O4'	6.78	117.23	109.10
26	BB	1384	A	C2-N3-C4	6.78	113.99	110.60
26	BB	1596	A	N9-C1'-C2'	-6.78	104.55	112.00
26	BB	2071	A	C4-C5-C6	-6.78	113.61	117.00
26	BB	2838	G	C5-N7-C8	-6.78	100.91	104.30
29	BE	181	ASP	CB-CG-OD2	-6.78	112.20	118.30
39	BO	75	GLU	OE1-CD-OE2	6.78	131.43	123.30
2	AB	57	G	O4'-C4'-C3'	6.77	111.52	106.10
5	AE	196	ASP	CB-CG-OD1	-6.77	112.20	118.30
26	BB	589	U	C4'-C3'-C2'	-6.77	95.83	102.60
26	BB	1413	A	C5-C6-N6	-6.77	118.28	123.70
26	BB	1435	G	C4-C5-C6	6.77	122.86	118.80
26	BB	2155	U	C2-N3-C4	6.77	131.06	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	40	C	C4'-C3'-C2'	-6.77	95.83	102.60
1	AA	650	G	C1'-O4'-C4'	-6.77	104.48	109.90
1	AA	1289	A	N9-C1'-C2'	-6.77	104.55	112.00
1	AA	1504	G	C3'-C2'-C1'	-6.77	96.08	101.50
4	AD	5	G	C5'-C4'-O4'	-6.77	100.97	109.10
25	BA	111	U	C3'-C2'-C1'	6.77	106.92	101.50
26	BB	810	U	C3'-C2'-C1'	6.77	106.92	101.50
26	BB	1592	C	C6-N1-C2	-6.77	117.59	120.30
26	BB	2084	C	C1'-O4'-C4'	-6.77	104.48	109.90
26	BB	2186	G	C5'-C4'-O4'	6.77	117.23	109.10
26	BB	2240	U	N1-C2-N3	6.77	118.96	114.90
26	BB	2435	A	C4-C5-C6	6.77	120.39	117.00
1	AA	497	G	C8-N9-C4	6.77	109.11	106.40
1	AA	597	G	C8-N9-C4	-6.77	103.69	106.40
1	AA	1330	U	C6-N1-C2	-6.77	116.94	121.00
12	AL	5	TYR	CD1-CG-CD2	6.77	125.35	117.90
26	BB	1137	G	C2-N3-C4	6.77	115.28	111.90
1	AA	89	U	C5-C6-N1	-6.77	119.31	122.70
1	AA	1488	G	C4-C5-N7	6.77	113.51	110.80
3	AC	54	U	C4-C5-C6	6.77	123.76	119.70
26	BB	409	G	C6-N1-C2	-6.77	121.04	125.10
26	BB	598	U	O4'-C1'-N1	6.77	113.61	108.20
26	BB	969	G	N3-C4-C5	-6.77	125.22	128.60
26	BB	2729	G	C6-N1-C2	-6.77	121.04	125.10
26	BB	2819	G	C8-N9-C4	-6.77	103.69	106.40
1	AA	205	A	N7-C8-N9	6.77	117.18	113.80
1	AA	857	C	N3-C4-N4	6.77	122.74	118.00
1	AA	1085	U	N1-C2-N3	-6.77	110.84	114.90
1	AA	1397	C	C1'-O4'-C4'	-6.77	104.49	109.90
4	AD	17	C	O4'-C4'-C3'	6.77	111.51	106.10
4	AD	43	G	C8-N9-C4	-6.77	103.69	106.40
26	BB	512	G	N1-C2-N3	-6.77	119.84	123.90
26	BB	1206	G	N3-C4-C5	-6.77	125.22	128.60
26	BB	1968	G	C8-N9-C4	-6.77	103.69	106.40
26	BB	2002	G	C8-N9-C4	-6.77	103.69	106.40
26	BB	2088	A	C4-C5-C6	6.77	120.38	117.00
26	BB	2353	G	N1-C2-N2	6.77	122.29	116.20
26	BB	2675	A	C5-C6-N1	6.77	121.08	117.70
1	AA	1006	G	N3-C4-C5	-6.77	125.22	128.60
1	AA	1281	C	O4'-C4'-C3'	6.77	111.51	106.10
26	BB	1126	A	N1-C6-N6	-6.77	114.54	118.60
26	BB	1641	A	N1-C6-N6	-6.77	114.54	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1690	A	N3-C4-N9	-6.77	121.99	127.40
1	AA	274	A	C5-C6-N1	6.76	121.08	117.70
1	AA	551	U	C4-C5-C6	6.76	123.76	119.70
1	AA	776	G	O4'-C1'-N9	6.76	113.61	108.20
1	AA	1311	A	C5-C6-N6	-6.76	118.29	123.70
1	AA	1394	A	C8-N9-C4	-6.76	103.09	105.80
1	AA	1497	G	N1-C6-O6	-6.76	115.84	119.90
26	BB	258	G	O4'-C1'-N9	6.76	113.61	108.20
26	BB	1541	C	C6-N1-C2	-6.76	117.59	120.30
26	BB	2547	A	C6-N1-C2	6.76	122.66	118.60
26	BB	2706	A	N3-C4-C5	-6.76	122.06	126.80
26	BB	860	U	C5-C6-N1	-6.76	119.32	122.70
26	BB	1756	G	N3-C2-N2	-6.76	115.17	119.90
26	BB	2412	A	N1-C6-N6	6.76	122.66	118.60
26	BB	2432	A	C4-C5-C6	6.76	120.38	117.00
26	BB	2439	A	N3-C4-N9	6.76	132.81	127.40
1	AA	343	U	O4'-C1'-N1	6.76	113.61	108.20
1	AA	375	U	C5-C4-O4	-6.76	121.84	125.90
1	AA	713	G	N3-C4-C5	6.76	131.98	128.60
1	AA	970	C	C6-N1-C1'	-6.76	112.69	120.80
1	AA	1005	A	C5-C6-N1	6.76	121.08	117.70
2	AB	34	C	N1-C2-O2	6.76	122.96	118.90
26	BB	720	U	N3-C4-O4	6.76	124.13	119.40
26	BB	1746	A	C4-C5-C6	-6.76	113.62	117.00
26	BB	2090	A	C5-C6-N1	6.76	121.08	117.70
26	BB	2099	U	C4-C5-C6	-6.76	115.64	119.70
31	BG	7	TYR	CG-CD1-CE1	-6.76	115.89	121.30
26	BB	180	G	C2-N3-C4	6.76	115.28	111.90
26	BB	526	A	C5-N7-C8	6.76	107.28	103.90
26	BB	586	A	N3-C4-C5	-6.76	122.07	126.80
26	BB	677	A	N1-C2-N3	6.76	132.68	129.30
26	BB	852	U	C2-N3-C4	-6.76	122.94	127.00
26	BB	1092	C	N3-C4-C5	-6.76	119.20	121.90
26	BB	2359	C	N3-C4-N4	6.76	122.73	118.00
1	AA	768	A	N9-C1'-C2'	-6.76	104.57	112.00
26	BB	160	A	O4'-C4'-C3'	6.76	111.51	106.10
26	BB	1626	A	O4'-C1'-N9	6.76	113.61	108.20
26	BB	1986	C	C5-C4-N4	-6.76	115.47	120.20
26	BB	2141	G	N9-C4-C5	-6.76	102.70	105.40
26	BB	2825	G	C5'-C4'-O4'	6.76	117.21	109.10
1	AA	829	G	N9-C4-C5	6.76	108.10	105.40
1	AA	835	U	O4'-C1'-N1	6.76	113.61	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	180	G	P-O3'-C3'	6.76	127.81	119.70
26	BB	606	U	N1-C2-N3	-6.76	110.85	114.90
26	BB	609	A	N7-C8-N9	6.76	117.18	113.80
26	BB	1033	U	O4'-C1'-N1	6.76	113.61	108.20
26	BB	1057	A	N1-C6-N6	-6.76	114.55	118.60
26	BB	1480	C	C3'-C2'-C1'	6.76	106.91	101.50
26	BB	2298	A	N3-C4-C5	-6.76	122.07	126.80
26	BB	2314	A	C5-N7-C8	6.76	107.28	103.90
26	BB	2450	A	P-O3'-C3'	6.76	127.81	119.70
26	BB	2513	A	C6-C5-N7	6.76	137.03	132.30
1	AA	616	G	N1-C6-O6	-6.75	115.85	119.90
1	AA	1447	A	N3-C4-C5	-6.75	122.07	126.80
26	BB	290	U	C5-C6-N1	-6.75	119.32	122.70
26	BB	2157	G	N1-C6-O6	6.75	123.95	119.90
26	BB	2293	G	N1-C2-N2	6.75	122.28	116.20
1	AA	206	C	C1'-O4'-C4'	6.75	115.30	109.90
1	AA	821	G	O4'-C1'-N9	6.75	113.60	108.20
1	AA	875	U	C4'-C3'-C2'	-6.75	95.85	102.60
1	AA	1000	A	N9-C4-C5	6.75	108.50	105.80
1	AA	1239	A	C6-C5-N7	6.75	137.03	132.30
2	AB	11	U	C4'-C3'-C2'	-6.75	95.85	102.60
26	BB	362	A	N1-C6-N6	6.75	122.65	118.60
26	BB	479	A	C2'-C3'-O3'	6.75	124.50	113.70
26	BB	542	C	C5-C4-N4	6.75	124.93	120.20
26	BB	1628	G	C5-C6-O6	-6.75	124.55	128.60
26	BB	1804	C	C6-N1-C2	6.75	123.00	120.30
26	BB	1970	A	C6-N1-C2	6.75	122.65	118.60
26	BB	2189	U	N3-C4-C5	-6.75	110.55	114.60
26	BB	2516	A	C8-N9-C4	6.75	108.50	105.80
1	AA	79	G	C5-C6-N1	6.75	114.88	111.50
1	AA	191	G	O4'-C1'-N9	6.75	113.60	108.20
1	AA	202	G	C6-N1-C2	-6.75	121.05	125.10
4	AD	32	G	C2-N3-C4	6.75	115.28	111.90
4	AD	37	U	C4-C5-C6	6.75	123.75	119.70
26	BB	7	G	C5-C6-O6	-6.75	124.55	128.60
26	BB	401	A	N1-C6-N6	6.75	122.65	118.60
26	BB	1012	U	N3-C2-O2	-6.75	117.47	122.20
26	BB	2090	A	C5-C6-N6	-6.75	118.30	123.70
26	BB	2743	U	N1-C2-N3	6.75	118.95	114.90
1	AA	326	G	C3'-C2'-C1'	-6.75	96.10	101.50
26	BB	2124	G	C5-N7-C8	-6.75	100.92	104.30
1	AA	109	A	O4'-C1'-C2'	-6.75	99.05	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1213	A	C5'-C4'-O4'	6.75	117.20	109.10
26	BB	817	C	C6-N1-C2	6.75	123.00	120.30
26	BB	883	G	C1'-O4'-C4'	-6.75	104.50	109.90
26	BB	1223	G	C2-N3-C4	6.75	115.28	111.90
26	BB	1479	G	C5-C6-N1	6.75	114.87	111.50
26	BB	1786	A	P-O3'-C3'	6.75	127.80	119.70
26	BB	2127	G	C6-N1-C2	-6.75	121.05	125.10
26	BB	2145	C	C4-C5-C6	6.75	120.77	117.40
26	BB	2775	G	C5-C6-N1	6.75	114.87	111.50
1	AA	446	G	C1'-O4'-C4'	-6.75	104.50	109.90
1	AA	1043	G	C4-C5-C6	6.75	122.85	118.80
1	AA	1058	G	C2-N3-C4	6.75	115.27	111.90
1	AA	1067	A	N1-C2-N3	6.75	132.67	129.30
1	AA	1367	C	C5-C6-N1	6.75	124.37	121.00
26	BB	247	G	C5-N7-C8	6.75	107.67	104.30
26	BB	458	G	N1-C6-O6	6.75	123.95	119.90
26	BB	520	G	N3-C2-N2	6.75	124.62	119.90
26	BB	720	U	N1-C2-O2	-6.75	118.08	122.80
26	BB	806	C	C2-N3-C4	6.75	123.27	119.90
26	BB	909	A	P-O3'-C3'	6.75	127.80	119.70
26	BB	1812	U	C5-C6-N1	-6.75	119.33	122.70
26	BB	2596	U	C1'-O4'-C4'	-6.75	104.50	109.90
26	BB	2670	A	O4'-C1'-N9	6.75	113.60	108.20
1	AA	918	A	C4-C5-N7	-6.75	107.33	110.70
26	BB	908	C	C3'-C2'-C1'	6.75	106.90	101.50
26	BB	1359	A	C8-N9-C4	-6.75	103.10	105.80
26	BB	1825	U	O4'-C1'-N1	6.75	113.60	108.20
26	BB	1847	A	N1-C6-N6	-6.75	114.55	118.60
26	BB	2367	G	C6-C5-N7	-6.75	126.35	130.40
33	BI	137	GLU	OE1-CD-OE2	6.75	131.39	123.30
35	BK	61	TYR	CB-CG-CD2	-6.75	116.95	121.00
1	AA	116	A	C6-N1-C2	6.74	122.65	118.60
1	AA	625	U	C5-C6-N1	-6.74	119.33	122.70
1	AA	1077	G	N1-C2-N2	6.74	122.27	116.20
1	AA	1417	G	N3-C4-C5	-6.74	125.23	128.60
3	AC	54	U	C2-N3-C4	-6.74	122.95	127.00
26	BB	7	G	C5'-C4'-O4'	6.74	117.19	109.10
26	BB	460	A	C5-C6-N1	-6.74	114.33	117.70
26	BB	792	A	C6-N1-C2	6.74	122.65	118.60
26	BB	2227	A	C1'-O4'-C4'	-6.74	104.50	109.90
26	BB	2380	C	N1-C1'-C2'	-6.74	104.58	112.00
26	BB	2502	G	C4'-C3'-C2'	6.74	109.34	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2697	G	C8-N9-C4	-6.74	103.70	106.40
26	BB	2744	G	N3-C4-N9	6.74	130.05	126.00
1	AA	321	A	N9-C4-C5	6.74	108.50	105.80
1	AA	704	A	N1-C2-N3	-6.74	125.93	129.30
1	AA	720	C	N1-C2-O2	6.74	122.94	118.90
26	BB	1300	G	N3-C2-N2	-6.74	115.18	119.90
1	AA	73	C	N3-C2-O2	-6.74	117.18	121.90
1	AA	226	G	P-O3'-C3'	6.74	127.79	119.70
1	AA	557	G	C8-N9-C1'	6.74	135.76	127.00
1	AA	852	G	C8-N9-C4	6.74	109.10	106.40
26	BB	1693	U	N3-C4-C5	6.74	118.64	114.60
26	BB	1947	C	C4'-C3'-C2'	-6.74	95.86	102.60
26	BB	2268	A	C6-C5-N7	-6.74	127.58	132.30
26	BB	2847	U	C5-C6-N1	6.74	126.07	122.70
26	BB	2866	U	C5'-C4'-O4'	6.74	117.19	109.10
1	AA	115	G	N3-C4-C5	-6.74	125.23	128.60
1	AA	402	G	N3-C4-N9	6.74	130.04	126.00
1	AA	590	U	C5'-C4'-O4'	6.74	117.19	109.10
1	AA	864	A	C5-C6-N1	6.74	121.07	117.70
1	AA	1177	G	C6-N1-C2	-6.74	121.06	125.10
4	AD	41	C	C6-N1-C2	6.74	123.00	120.30
26	BB	212	G	C8-N9-C4	-6.74	103.70	106.40
26	BB	257	C	C5-C4-N4	6.74	124.92	120.20
26	BB	774	G	N3-C4-N9	6.74	130.04	126.00
26	BB	1068	G	C2-N3-C4	6.74	115.27	111.90
26	BB	1313	U	C5'-C4'-O4'	6.74	117.19	109.10
26	BB	1383	A	O4'-C1'-N9	6.74	113.59	108.20
26	BB	1684	G	N7-C8-N9	6.74	116.47	113.10
26	BB	1754	A	C5-C6-N6	-6.74	118.31	123.70
26	BB	1811	G	N9-C4-C5	-6.74	102.70	105.40
26	BB	2284	A	C5'-C4'-O4'	6.74	117.19	109.10
26	BB	2748	A	N9-C4-C5	6.74	108.50	105.80
26	BB	2867	G	C8-N9-C4	-6.74	103.70	106.40
26	BB	2869	G	N3-C4-C5	-6.74	125.23	128.60
1	AA	247	G	C6-C5-N7	-6.74	126.36	130.40
1	AA	1057	G	N7-C8-N9	6.74	116.47	113.10
1	AA	1061	G	C4-N9-C1'	-6.74	117.74	126.50
26	BB	62	U	O4'-C1'-N1	6.74	113.59	108.20
26	BB	1642	G	C5-C6-N1	-6.74	108.13	111.50
26	BB	1904	G	N7-C8-N9	-6.74	109.73	113.10
1	AA	197	A	P-O5'-C5'	-6.74	110.12	120.90
1	AA	226	G	C5-N7-C8	-6.74	100.93	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	270	A	N3-C4-C5	-6.74	122.08	126.80
1	AA	836	G	C5'-C4'-O4'	6.74	117.18	109.10
1	AA	1209	C	C6-N1-C2	-6.74	117.61	120.30
26	BB	217	A	N3-C4-N9	6.74	132.79	127.40
26	BB	334	C	O4'-C4'-C3'	6.74	111.49	106.10
26	BB	335	C	O4'-C1'-N1	6.74	113.59	108.20
26	BB	1309	G	C5-C6-N1	6.74	114.87	111.50
26	BB	2429	G	C3'-C2'-C1'	-6.74	96.11	101.50
26	BB	2860	A	N3-C4-C5	-6.74	122.08	126.80
26	BB	1245	G	N3-C4-N9	6.73	130.04	126.00
26	BB	2779	U	C4-C5-C6	6.73	123.74	119.70
1	AA	224	U	C4-C5-C6	6.73	123.74	119.70
1	AA	1219	A	C5-C6-N1	-6.73	114.33	117.70
25	BA	16	G	C4-C5-C6	-6.73	114.76	118.80
26	BB	87	U	C5'-C4'-O4'	6.73	117.18	109.10
26	BB	210	C	O4'-C1'-N1	6.73	113.59	108.20
26	BB	1280	G	N3-C4-C5	-6.73	125.23	128.60
26	BB	1496	A	C6-C5-N7	6.73	137.01	132.30
26	BB	1569	A	C8-N9-C4	-6.73	103.11	105.80
26	BB	1717	A	C4-C5-N7	-6.73	107.33	110.70
26	BB	1772	A	C5-C6-N1	6.73	121.07	117.70
26	BB	1980	G	C4'-C3'-C2'	-6.73	95.87	102.60
26	BB	1984	G	N1-C2-N3	-6.73	119.86	123.90
41	BQ	117	PHE	CB-CG-CD1	-6.73	116.09	120.80
1	AA	278	G	N1-C6-O6	6.73	123.94	119.90
1	AA	980	C	O4'-C1'-N1	6.73	113.58	108.20
1	AA	1088	G	C4-C5-N7	-6.73	108.11	110.80
1	AA	1258	G	C5-C6-N1	6.73	114.86	111.50
26	BB	265	A	C5-C6-N6	-6.73	118.32	123.70
26	BB	635	C	P-O3'-C3'	6.73	127.78	119.70
26	BB	876	C	O4'-C1'-N1	6.73	113.58	108.20
26	BB	1093	G	C6-N1-C2	-6.73	121.06	125.10
26	BB	1326	U	P-O3'-C3'	6.73	127.78	119.70
26	BB	2147	A	N9-C4-C5	6.73	108.49	105.80
26	BB	2294	G	N1-C2-N2	6.73	122.26	116.20
1	AA	591	U	N3-C4-O4	6.73	124.11	119.40
1	AA	595	A	C6-N1-C2	-6.73	114.56	118.60
1	AA	1143	G	O4'-C1'-N9	6.73	113.58	108.20
2	AB	26	A	C4-C5-C6	-6.73	113.64	117.00
26	BB	1500	G	C3'-C2'-C1'	-6.73	96.12	101.50
1	AA	1312	G	C6-N1-C2	-6.73	121.06	125.10
6	AF	231	ARG	NE-CZ-NH1	6.73	123.66	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	481	G	O4'-C4'-C3'	6.73	111.48	106.10
26	BB	849	A	C2-N3-C4	6.73	113.96	110.60
26	BB	1318	U	N1-C2-O2	-6.73	118.09	122.80
26	BB	1604	C	N3-C4-N4	6.73	122.71	118.00
26	BB	1666	G	C3'-C2'-C1'	6.73	106.88	101.50
26	BB	1863	G	C6-N1-C2	-6.73	121.06	125.10
26	BB	2322	A	C5'-C4'-O4'	6.73	117.17	109.10
1	AA	166	U	C1'-O4'-C4'	-6.73	104.52	109.90
26	BB	488	G	O4'-C1'-C2'	6.73	113.65	107.60
26	BB	1323	C	N3-C2-O2	-6.73	117.19	121.90
26	BB	2266	A	C4-C5-C6	-6.73	113.64	117.00
26	BB	792	A	C4-C5-C6	-6.72	113.64	117.00
26	BB	2108	A	C2-N3-C4	6.72	113.96	110.60
26	BB	2132	U	C5-C6-N1	6.72	126.06	122.70
26	BB	2507	C	N3-C4-C5	-6.72	119.21	121.90
28	BD	15	VAL	CG1-CB-CG2	-6.72	100.14	110.90
1	AA	100	G	C2-N3-C4	6.72	115.26	111.90
1	AA	457	G	C5-N7-C8	6.72	107.66	104.30
1	AA	916	U	N3-C2-O2	-6.72	117.50	122.20
1	AA	1008	U	C5-C6-N1	-6.72	119.34	122.70
2	AB	60	U	C5-C6-N1	6.72	126.06	122.70
3	AC	26	U	C2-N3-C4	-6.72	122.97	127.00
26	BB	401	A	O4'-C1'-N9	6.72	113.58	108.20
26	BB	1083	U	O4'-C1'-N1	6.72	113.58	108.20
26	BB	1546	G	N3-C4-C5	-6.72	125.24	128.60
26	BB	2579	C	C2-N3-C4	6.72	123.26	119.90
26	BB	2686	G	C4'-C3'-C2'	-6.72	95.88	102.60
1	AA	881	G	C5-N7-C8	-6.72	100.94	104.30
1	AA	1015	G	C6-N1-C2	-6.72	121.07	125.10
1	AA	1364	U	C3'-C2'-C1'	6.72	106.88	101.50
3	AC	34	U	N1-C2-N3	6.72	118.93	114.90
4	AD	60	A	C5-C6-N1	6.72	121.06	117.70
26	BB	1612	C	C5'-C4'-O4'	6.72	117.17	109.10
26	BB	2160	C	C5-C4-N4	-6.72	115.50	120.20
1	AA	1025	U	C5-C6-N1	-6.72	119.34	122.70
1	AA	1106	G	N9-C1'-C2'	-6.72	104.61	112.00
26	BB	178	G	N7-C8-N9	6.72	116.46	113.10
26	BB	437	U	C5'-C4'-O4'	6.72	117.16	109.10
26	BB	526	A	C2-N3-C4	6.72	113.96	110.60
26	BB	1163	G	C6-N1-C2	-6.72	121.07	125.10
26	BB	2125	G	N9-C1'-C2'	-6.72	104.61	112.00
26	BB	2892	G	N3-C4-N9	6.72	130.03	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	216	U	N1-C2-N3	6.72	118.93	114.90
1	AA	573	A	N1-C2-N3	6.72	132.66	129.30
1	AA	853	C	C2-N3-C4	6.72	123.26	119.90
1	AA	929	G	C5-C6-N1	6.72	114.86	111.50
26	BB	627	A	C1'-O4'-C4'	-6.72	104.53	109.90
26	BB	1132	U	C5'-C4'-O4'	-6.72	101.04	109.10
26	BB	1182	G	C5-C6-O6	6.72	132.63	128.60
26	BB	1186	G	N1-C2-N3	-6.72	119.87	123.90
26	BB	1255	U	C2-N3-C4	-6.72	122.97	127.00
26	BB	1679	A	C5'-C4'-O4'	6.72	117.16	109.10
26	BB	2129	C	C4-C5-C6	-6.72	114.04	117.40
26	BB	107	G	C5-N7-C8	6.72	107.66	104.30
26	BB	175	G	N3-C4-N9	6.72	130.03	126.00
26	BB	625	G	N9-C4-C5	6.72	108.09	105.40
26	BB	722	A	N1-C2-N3	-6.72	125.94	129.30
26	BB	853	C	C6-N1-C1'	6.72	128.86	120.80
26	BB	1733	G	C1'-O4'-C4'	-6.72	104.53	109.90
26	BB	2293	G	C5-N7-C8	6.72	107.66	104.30
26	BB	2328	A	C5-C6-N6	-6.72	118.33	123.70
26	BB	2682	A	C4-C5-C6	6.72	120.36	117.00
1	AA	793	U	C6-N1-C2	-6.71	116.97	121.00
1	AA	1025	U	C4-C5-C6	6.71	123.73	119.70
1	AA	1504	G	N3-C4-C5	-6.71	125.24	128.60
8	AH	92	ARG	NE-CZ-NH1	6.71	123.66	120.30
26	BB	847	U	C6-N1-C2	-6.71	116.97	121.00
26	BB	1407	G	O4'-C4'-C3'	6.71	111.47	106.10
26	BB	1421	G	N3-C2-N2	-6.71	115.20	119.90
26	BB	1761	C	C6-N1-C1'	6.71	128.86	120.80
26	BB	1932	A	C4-C5-N7	6.71	114.06	110.70
1	AA	301	G	N3-C4-N9	6.71	130.03	126.00
26	BB	50	U	C4-C5-C6	6.71	123.73	119.70
26	BB	144	A	C5-N7-C8	6.71	107.26	103.90
26	BB	198	C	C4'-C3'-C2'	-6.71	95.89	102.60
26	BB	1096	A	C6-C5-N7	6.71	137.00	132.30
26	BB	1667	G	C2-N3-C4	6.71	115.26	111.90
26	BB	2313	C	O4'-C1'-N1	6.71	113.57	108.20
26	BB	2596	U	O4'-C1'-C2'	6.71	113.64	107.60
27	BC	74	ARG	NE-CZ-NH2	-6.71	116.94	120.30
1	AA	13	U	N1-C1'-C2'	6.71	122.72	114.00
1	AA	330	C	C4-C5-C6	-6.71	114.04	117.40
1	AA	457	G	C2-N3-C4	6.71	115.26	111.90
1	AA	1159	U	O4'-C1'-N1	6.71	113.57	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	231	A	P-O3'-C3'	6.71	127.75	119.70
26	BB	1669	A	N7-C8-N9	6.71	117.16	113.80
26	BB	2117	A	N1-C2-N3	-6.71	125.94	129.30
26	BB	2152	G	C8-N9-C4	-6.71	103.72	106.40
26	BB	2621	G	O4'-C1'-N9	6.71	113.57	108.20
1	AA	770	C	C4-C5-C6	6.71	120.75	117.40
26	BB	301	G	C5-C6-N1	6.71	114.86	111.50
1	AA	254	G	C4'-C3'-C2'	-6.71	95.89	102.60
1	AA	996	A	C8-N9-C4	-6.71	103.12	105.80
1	AA	1357	A	C5-C6-N1	6.71	121.05	117.70
26	BB	307	G	N9-C4-C5	6.71	108.08	105.40
26	BB	522	A	C8-N9-C4	-6.71	103.12	105.80
1	AA	151	A	N9-C1'-C2'	-6.71	104.62	112.00
1	AA	725	G	C2-N3-C4	-6.71	108.55	111.90
1	AA	799	G	C4'-C3'-C2'	-6.71	95.89	102.60
1	AA	1539	C	C4'-C3'-C2'	6.71	109.31	102.60
6	AF	41	TYR	CB-CG-CD1	6.71	125.02	121.00
26	BB	907	G	N3-C2-N2	6.71	124.59	119.90
26	BB	1791	A	N9-C4-C5	-6.71	103.12	105.80
26	BB	2004	G	O4'-C1'-N9	6.71	113.56	108.20
26	BB	2837	A	C5-N7-C8	-6.71	100.55	103.90
36	BL	1	MET	CG-SD-CE	-6.71	89.47	100.20
1	AA	8	A	C4-C5-C6	-6.71	113.65	117.00
1	AA	320	A	C4'-C3'-C2'	-6.71	95.89	102.60
1	AA	995	C	C4'-C3'-C2'	-6.71	95.89	102.60
4	AD	32	G	N1-C2-N2	6.71	122.23	116.20
26	BB	682	G	C2-N3-C4	6.71	115.25	111.90
26	BB	1800	C	C5-C4-N4	-6.71	115.51	120.20
26	BB	2559	C	C4'-C3'-C2'	-6.71	95.89	102.60
1	AA	684	U	N3-C2-O2	-6.70	117.51	122.20
1	AA	1080	A	C4'-C3'-C2'	-6.70	95.90	102.60
14	AN	55	ARG	NE-CZ-NH1	6.70	123.65	120.30
26	BB	47	C	O4'-C1'-N1	6.70	113.56	108.20
26	BB	93	G	C3'-C2'-C1'	-6.70	96.14	101.50
26	BB	307	G	N1-C2-N3	-6.70	119.88	123.90
26	BB	721	A	N1-C6-N6	-6.70	114.58	118.60
26	BB	830	G	N7-C8-N9	6.70	116.45	113.10
26	BB	1116	G	C6-N1-C2	-6.70	121.08	125.10
26	BB	1378	A	N9-C4-C5	6.70	108.48	105.80
26	BB	2305	U	O4'-C1'-N1	6.70	113.56	108.20
26	BB	2458	G	C1'-O4'-C4'	-6.70	104.54	109.90
28	BD	213	ARG	NE-CZ-NH2	6.70	123.65	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1503	A	N1-C6-N6	-6.70	114.58	118.60
1	AA	1517	G	C3'-C2'-C1'	6.70	106.86	101.50
26	BB	1221	C	C5-C6-N1	-6.70	117.65	121.00
26	BB	2677	G	N7-C8-N9	6.70	116.45	113.10
1	AA	733	G	N3-C2-N2	6.70	124.59	119.90
1	AA	795	C	N1-C2-N3	6.70	123.89	119.20
26	BB	336	C	N3-C4-C5	6.70	124.58	121.90
26	BB	970	U	O5'-P-OP2	-6.70	99.67	105.70
26	BB	1263	U	P-O3'-C3'	6.70	127.74	119.70
26	BB	1426	G	O4'-C1'-N9	6.70	113.56	108.20
26	BB	1844	C	C1'-O4'-C4'	6.70	115.26	109.90
26	BB	2516	A	C5-N7-C8	6.70	107.25	103.90
26	BB	2586	U	N3-C2-O2	-6.70	117.51	122.20
57	B6	1	PRO	CA-N-CD	-6.70	102.12	111.50
1	AA	31	G	N3-C4-C5	-6.70	125.25	128.60
1	AA	616	G	N9-C1'-C2'	-6.70	104.63	112.00
1	AA	685	G	C1'-O4'-C4'	6.70	115.26	109.90
1	AA	904	U	C6-N1-C2	-6.70	116.98	121.00
1	AA	1307	U	N3-C4-O4	-6.70	114.71	119.40
1	AA	1460	C	N1-C2-O2	6.70	122.92	118.90
2	AB	11	U	N1-C2-O2	-6.70	118.11	122.80
25	BA	47	C	N3-C4-C5	-6.70	119.22	121.90
26	BB	471	A	C4-C5-C6	6.70	120.35	117.00
26	BB	773	U	C4'-C3'-C2'	-6.70	95.90	102.60
26	BB	1074	G	C2-N3-C4	6.70	115.25	111.90
26	BB	1105	U	N3-C4-O4	6.70	124.09	119.40
26	BB	1297	C	C5'-C4'-O4'	6.70	117.14	109.10
26	BB	2083	G	C5-C6-N1	6.70	114.85	111.50
26	BB	2270	A	N1-C2-N3	-6.70	125.95	129.30
1	AA	446	G	O4'-C1'-N9	6.70	113.56	108.20
1	AA	1471	U	C1'-O4'-C4'	-6.70	104.54	109.90
3	AC	32	U	C5-C4-O4	6.70	129.92	125.90
26	BB	246	C	C5-C4-N4	-6.70	115.51	120.20
26	BB	645	C	C2-N3-C4	-6.70	116.55	119.90
26	BB	1132	U	O4'-C1'-N1	6.70	113.56	108.20
26	BB	1720	U	N1-C2-O2	-6.70	118.11	122.80
26	BB	2125	G	C5-C6-N1	6.70	114.85	111.50
1	AA	25	C	N3-C2-O2	-6.70	117.21	121.90
1	AA	886	G	C4-C5-C6	6.70	122.82	118.80
26	BB	497	A	C8-N9-C4	-6.70	103.12	105.80
26	BB	685	A	C6-N1-C2	-6.70	114.58	118.60
26	BB	1447	C	C5'-C4'-O4'	6.70	117.13	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1548	A	C5-C6-N6	-6.70	118.34	123.70
26	BB	1709	U	C5'-C4'-O4'	6.70	117.13	109.10
34	BJ	55	ARG	NH1-CZ-NH2	6.70	126.77	119.40
1	AA	67	C	C3'-C2'-C1'	6.69	106.86	101.50
1	AA	312	C	N3-C2-O2	-6.69	117.21	121.90
1	AA	1012	A	C3'-C2'-C1'	6.69	106.86	101.50
2	AB	11	U	N1-C2-N3	6.69	118.92	114.90
26	BB	36	G	C8-N9-C1'	6.69	135.70	127.00
26	BB	353	C	C2-N3-C4	-6.69	116.55	119.90
26	BB	611	C	N3-C2-O2	-6.69	117.21	121.90
26	BB	615	U	C4-C5-C6	6.69	123.72	119.70
26	BB	1087	G	N7-C8-N9	6.69	116.45	113.10
26	BB	1518	C	N1-C2-O2	6.69	122.92	118.90
26	BB	2659	G	C8-N9-C4	-6.69	103.72	106.40
1	AA	146	G	N7-C8-N9	6.69	116.45	113.10
1	AA	759	A	N1-C2-N3	-6.69	125.95	129.30
1	AA	1002	G	C6-N1-C2	-6.69	121.08	125.10
4	AD	42	C	O4'-C1'-N1	6.69	113.55	108.20
26	BB	458	G	N3-C2-N2	-6.69	115.22	119.90
26	BB	1367	A	C6-N1-C2	6.69	122.61	118.60
26	BB	1463	C	C4'-C3'-C2'	-6.69	95.91	102.60
26	BB	1935	G	N1-C2-N2	6.69	122.22	116.20
26	BB	2262	U	N1-C2-O2	-6.69	118.12	122.80
26	BB	2454	G	C5-N7-C8	6.69	107.65	104.30
1	AA	832	G	N3-C4-C5	-6.69	125.25	128.60
1	AA	1035	A	O5'-P-OP2	-6.69	99.68	105.70
22	AV	40	PHE	CB-CG-CD1	-6.69	116.12	120.80
26	BB	86	G	N9-C1'-C2'	-6.69	104.64	112.00
26	BB	463	G	O4'-C1'-N9	-6.69	102.85	108.20
26	BB	670	A	O3'-P-O5'	-6.69	91.29	104.00
26	BB	1551	A	C6-N1-C2	-6.69	114.59	118.60
26	BB	1576	U	O4'-C1'-C2'	6.69	113.62	107.60
26	BB	2082	A	C6-N1-C2	-6.69	114.59	118.60
26	BB	2270	A	C5'-C4'-O4'	6.69	117.13	109.10
26	BB	2523	G	P-O3'-C3'	6.69	127.73	119.70
26	BB	2714	G	C6-N1-C2	-6.69	121.09	125.10
30	BF	44	ARG	NE-CZ-NH2	6.69	123.65	120.30
1	AA	559	A	C8-N9-C4	-6.69	103.12	105.80
1	AA	1064	G	O4'-C1'-N9	6.69	113.55	108.20
1	AA	1278	G	C4-C5-C6	6.69	122.81	118.80
25	BA	90	C	O4'-C1'-N1	6.69	113.55	108.20
26	BB	8	C	N3-C2-O2	-6.69	117.22	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1431	A	C2-N3-C4	6.69	113.94	110.60
26	BB	1772	A	N3-C4-C5	-6.69	122.12	126.80
26	BB	2079	U	O4'-C1'-N1	6.69	113.55	108.20
25	BA	25	U	C5'-C4'-O4'	6.69	117.12	109.10
26	BB	307	G	O4'-C1'-N9	6.69	113.55	108.20
26	BB	648	G	C6-C5-N7	-6.69	126.39	130.40
26	BB	663	G	N3-C2-N2	6.69	124.58	119.90
26	BB	1366	A	O4'-C1'-N9	6.69	113.55	108.20
26	BB	2507	C	O4'-C4'-C3'	6.69	111.45	106.10
1	AA	693	G	C5-N7-C8	6.69	107.64	104.30
1	AA	1342	C	O5'-P-OP1	-6.69	99.68	105.70
2	AB	38	A	O4'-C1'-N9	6.69	113.55	108.20
26	BB	55	G	C4-C5-C6	-6.69	114.79	118.80
26	BB	110	G	N9-C1'-C2'	-6.69	104.64	112.00
26	BB	474	G	N3-C2-N2	-6.69	115.22	119.90
26	BB	2339	C	C3'-C2'-C1'	-6.69	96.15	101.50
1	AA	37	U	N3-C4-O4	-6.68	114.72	119.40
1	AA	751	U	O4'-C1'-N1	6.68	113.55	108.20
1	AA	1300	G	C3'-C2'-C1'	6.68	106.85	101.50
26	BB	890	C	N3-C2-O2	-6.68	117.22	121.90
26	BB	1486	U	C2-N3-C4	-6.68	122.99	127.00
26	BB	2469	A	C8-N9-C4	-6.68	103.13	105.80
26	BB	2514	U	C6-N1-C2	-6.68	116.99	121.00
1	AA	1268	G	C8-N9-C4	-6.68	103.73	106.40
1	AA	1363	A	O4'-C1'-C2'	-6.68	99.12	105.80
25	BA	78	A	C5'-C4'-C3'	-6.68	105.31	116.00
25	BA	119	A	C1'-O4'-C4'	-6.68	104.55	109.90
26	BB	119	A	C3'-C2'-C1'	-6.68	96.15	101.50
26	BB	391	A	N7-C8-N9	6.68	117.14	113.80
26	BB	454	A	C2-N3-C4	-6.68	107.26	110.60
26	BB	993	G	N9-C4-C5	-6.68	102.73	105.40
26	BB	1149	G	C5'-C4'-C3'	-6.68	105.31	116.00
26	BB	1180	U	N3-C4-O4	6.68	124.08	119.40
26	BB	1490	A	N7-C8-N9	6.68	117.14	113.80
26	BB	1649	G	O3'-P-O5'	-6.68	91.30	104.00
26	BB	1871	A	N7-C8-N9	6.68	117.14	113.80
26	BB	2059	A	N9-C4-C5	-6.68	103.13	105.80
26	BB	2207	C	C6-N1-C2	6.68	122.97	120.30
43	BS	91	ARG	NE-CZ-NH2	-6.68	116.96	120.30
1	AA	95	C	C5-C6-N1	6.68	124.34	121.00
1	AA	324	G	N7-C8-N9	6.68	116.44	113.10
26	BB	60	G	C3'-C2'-C1'	-6.68	96.16	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	753	A	C2-N3-C4	-6.68	107.26	110.60
26	BB	1817	G	C2-N3-C4	6.68	115.24	111.90
26	BB	1913	A	C8-N9-C4	-6.68	103.13	105.80
26	BB	2195	U	N3-C4-C5	-6.68	110.59	114.60
44	BT	84	ARG	NE-CZ-NH2	6.68	123.64	120.30
1	AA	233	C	O3'-P-O5'	-6.68	91.31	104.00
1	AA	513	C	N1-C1'-C2'	-6.68	104.65	112.00
1	AA	755	G	C3'-C2'-C1'	-6.68	96.16	101.50
26	BB	110	G	N1-C2-N3	-6.68	119.89	123.90
26	BB	212	G	C3'-C2'-C1'	-6.68	96.16	101.50
26	BB	736	C	N3-C2-O2	-6.68	117.22	121.90
26	BB	972	A	O4'-C1'-N9	6.68	113.54	108.20
26	BB	2272	U	N3-C4-O4	6.68	124.08	119.40
26	BB	2655	G	C4-C5-N7	-6.68	108.13	110.80
40	BP	94	TYR	CB-CG-CD1	-6.68	116.99	121.00
1	AA	429	U	C5-C6-N1	-6.68	119.36	122.70
1	AA	928	G	N1-C6-O6	6.68	123.91	119.90
1	AA	1337	G	C8-N9-C4	-6.68	103.73	106.40
1	AA	1468	A	N1-C2-N3	6.68	132.64	129.30
26	BB	1094	U	N3-C2-O2	-6.68	117.53	122.20
26	BB	2415	G	C5-C6-N1	-6.68	108.16	111.50
1	AA	147	G	C5-C6-O6	-6.68	124.59	128.60
1	AA	607	A	N9-C4-C5	-6.68	103.13	105.80
1	AA	976	G	N9-C4-C5	6.68	108.07	105.40
1	AA	1431	A	C5-N7-C8	-6.68	100.56	103.90
26	BB	82	U	N1-C2-O2	6.68	127.47	122.80
26	BB	1533	C	C2-N3-C4	6.68	123.24	119.90
1	AA	323	U	N1-C1'-C2'	-6.67	104.66	112.00
1	AA	476	U	C4'-C3'-C2'	-6.67	95.93	102.60
1	AA	574	A	O4'-C1'-N9	6.67	113.54	108.20
2	AB	14	A	N3-C4-C5	6.67	131.47	126.80
2	AB	15	A	C4-C5-N7	6.67	114.04	110.70
2	AB	50	G	C6-C5-N7	-6.67	126.39	130.40
26	BB	359	G	N3-C4-C5	-6.67	125.26	128.60
26	BB	382	A	N7-C8-N9	-6.67	110.46	113.80
26	BB	440	C	O4'-C1'-N1	6.67	113.54	108.20
26	BB	653	U	C1'-O4'-C4'	-6.67	104.56	109.90
26	BB	2012	G	P-O3'-C3'	6.67	127.71	119.70
18	AR	78	THR	CA-CB-CG2	6.67	121.74	112.40
26	BB	39	G	N3-C2-N2	-6.67	115.23	119.90
26	BB	334	C	C4'-C3'-C2'	-6.67	95.93	102.60
26	BB	864	G	N7-C8-N9	6.67	116.44	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	28	A	N1-C2-N3	-6.67	125.96	129.30
1	AA	805	C	N1-C1'-C2'	-6.67	104.66	112.00
1	AA	841	C	N3-C4-N4	6.67	122.67	118.00
1	AA	1102	A	N7-C8-N9	6.67	117.14	113.80
1	AA	1459	G	C8-N9-C4	-6.67	103.73	106.40
1	AA	1503	A	P-O3'-C3'	6.67	127.71	119.70
26	BB	439	A	N1-C6-N6	-6.67	114.60	118.60
26	BB	481	G	C5-C6-N1	6.67	114.83	111.50
26	BB	1045	C	C5-C6-N1	6.67	124.33	121.00
26	BB	1493	C	N1-C2-O2	6.67	122.90	118.90
26	BB	1642	G	C1'-O4'-C4'	6.67	115.24	109.90
26	BB	1782	U	C4'-C3'-C2'	-6.67	95.93	102.60
1	AA	176	C	C6-N1-C2	-6.67	117.63	120.30
1	AA	534	U	C4-C5-C6	6.67	123.70	119.70
1	AA	766	A	N9-C4-C5	-6.67	103.13	105.80
26	BB	1243	C	C1'-O4'-C4'	-6.67	104.56	109.90
26	BB	1733	G	C5'-C4'-C3'	-6.67	105.33	116.00
26	BB	1895	C	C5-C6-N1	6.67	124.33	121.00
26	BB	2883	A	C6-N1-C2	-6.67	114.60	118.60
1	AA	465	A	N3-C4-C5	-6.67	122.13	126.80
1	AA	664	G	C5-C6-O6	-6.67	124.60	128.60
26	BB	83	A	C4-C5-N7	6.67	114.03	110.70
26	BB	84	A	C5'-C4'-O4'	6.67	117.10	109.10
26	BB	350	G	C1'-O4'-C4'	-6.67	104.56	109.90
26	BB	686	U	N1-C2-O2	6.67	127.47	122.80
26	BB	1389	G	N7-C8-N9	6.67	116.43	113.10
26	BB	2302	U	C2-N3-C4	6.67	131.00	127.00
1	AA	794	A	C4-C5-C6	-6.67	113.67	117.00
4	AD	60	A	N9-C1'-C2'	-6.67	104.67	112.00
26	BB	123	G	C1'-O4'-C4'	-6.67	104.57	109.90
26	BB	1337	G	O4'-C4'-C3'	6.67	111.43	106.10
26	BB	1511	G	C6-N1-C2	-6.67	121.10	125.10
26	BB	1638	C	C3'-C2'-C1'	6.67	106.83	101.50
26	BB	2000	C	C5-C6-N1	6.67	124.33	121.00
26	BB	2528	U	N1-C2-N3	-6.67	110.90	114.90
2	AB	41	C	P-O3'-C3'	6.67	127.70	119.70
26	BB	980	A	N3-C4-N9	-6.67	122.07	127.40
26	BB	2255	G	N3-C4-C5	-6.67	125.27	128.60
26	BB	2307	G	O4'-C1'-N9	6.67	113.53	108.20
1	AA	116	A	C5-C6-N1	-6.66	114.37	117.70
1	AA	235	C	C5-C6-N1	-6.66	117.67	121.00
1	AA	1157	A	C4-C5-C6	-6.66	113.67	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1217	C	C2-N3-C4	6.66	123.23	119.90
1	AA	1328	C	C5'-C4'-O4'	6.66	117.10	109.10
1	AA	1499	A	C5-N7-C8	-6.66	100.57	103.90
26	BB	626	A	C5-N7-C8	-6.66	100.57	103.90
26	BB	1036	G	N1-C2-N2	6.66	122.20	116.20
26	BB	1329	U	C4-C5-C6	6.66	123.70	119.70
26	BB	1581	G	C6-C5-N7	-6.66	126.40	130.40
26	BB	1677	A	C5-C6-N6	-6.66	118.37	123.70
26	BB	1789	A	C5-N7-C8	6.66	107.23	103.90
26	BB	1869	G	N1-C6-O6	-6.66	115.90	119.90
26	BB	1972	G	O4'-C1'-N9	6.66	113.53	108.20
1	AA	1095	U	O4'-C1'-N1	6.66	113.53	108.20
1	AA	1310	G	C4-C5-N7	-6.66	108.14	110.80
1	AA	1492	A	C5'-C4'-O4'	6.66	117.09	109.10
3	AC	24	A	N7-C8-N9	-6.66	110.47	113.80
26	BB	671	C	O4'-C1'-N1	6.66	113.53	108.20
26	BB	1105	U	C5-C4-O4	-6.66	121.90	125.90
26	BB	1621	U	C4-C5-C6	6.66	123.70	119.70
26	BB	1705	A	N3-C4-C5	6.66	131.46	126.80
1	AA	219	U	C2-N3-C4	-6.66	123.00	127.00
1	AA	544	G	N3-C2-N2	-6.66	115.24	119.90
1	AA	960	U	N3-C2-O2	-6.66	117.54	122.20
1	AA	1169	A	C5-N7-C8	-6.66	100.57	103.90
1	AA	1222	G	C1'-O4'-C4'	6.66	115.23	109.90
1	AA	1251	A	N7-C8-N9	6.66	117.13	113.80
24	AX	62	GLU	OE1-CD-OE2	6.66	131.29	123.30
26	BB	81	G	C5-C6-N1	6.66	114.83	111.50
26	BB	553	G	C5'-C4'-O4'	6.66	117.09	109.10
26	BB	603	A	N1-C6-N6	-6.66	114.60	118.60
26	BB	711	G	C8-N9-C4	-6.66	103.74	106.40
26	BB	743	A	C2'-C3'-O3'	6.66	124.36	113.70
26	BB	1300	G	C6-N1-C2	-6.66	121.10	125.10
26	BB	1369	G	C2-N3-C4	6.66	115.23	111.90
26	BB	1386	C	C5'-C4'-O4'	6.66	117.09	109.10
26	BB	1692	U	C5'-C4'-O4'	6.66	117.09	109.10
26	BB	2413	G	C4-C5-N7	6.66	113.46	110.80
1	AA	10	A	C4'-C3'-C2'	-6.66	95.94	102.60
1	AA	120	A	C5-C6-N1	-6.66	114.37	117.70
1	AA	281	G	N7-C8-N9	-6.66	109.77	113.10
1	AA	495	A	P-O3'-C3'	6.66	127.69	119.70
1	AA	978	A	O4'-C1'-C2'	6.66	113.59	107.60
1	AA	1162	C	N1-C2-O2	6.66	122.89	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1408	A	C5-C6-N1	6.66	121.03	117.70
4	AD	43	G	N9-C1'-C2'	-6.66	104.67	112.00
18	AR	48	ASP	CB-CG-OD2	-6.66	112.31	118.30
26	BB	202	U	C6-N1-C2	-6.66	117.00	121.00
26	BB	805	G	C5-C6-N1	6.66	114.83	111.50
26	BB	1183	U	O4'-C1'-N1	6.66	113.53	108.20
26	BB	1782	U	N1-C2-N3	-6.66	110.91	114.90
26	BB	1813	G	C5-C6-N1	6.66	114.83	111.50
26	BB	2360	G	N3-C4-C5	-6.66	125.27	128.60
26	BB	2537	U	C6-N1-C2	-6.66	117.00	121.00
1	AA	1174	G	C5-C6-N1	6.66	114.83	111.50
26	BB	225	C	C4'-C3'-C2'	-6.66	95.94	102.60
26	BB	260	G	C3'-C2'-C1'	-6.66	96.17	101.50
26	BB	620	G	N9-C4-C5	6.66	108.06	105.40
26	BB	1156	A	C6-C5-N7	6.66	136.96	132.30
26	BB	2375	G	O4'-C4'-C3'	6.66	111.43	106.10
1	AA	487	A	C5-C6-N6	-6.66	118.38	123.70
1	AA	554	A	C2-N3-C4	-6.66	107.27	110.60
1	AA	588	G	C4-C5-N7	6.66	113.46	110.80
1	AA	791	G	P-O3'-C3'	6.66	127.69	119.70
1	AA	812	G	C4'-C3'-C2'	-6.66	95.94	102.60
1	AA	1038	C	C6-N1-C2	6.66	122.96	120.30
1	AA	1442	G	C6-C5-N7	6.66	134.39	130.40
4	AD	58	A	O4'-C4'-C3'	6.66	111.42	106.10
26	BB	765	C	C5'-C4'-O4'	6.66	117.09	109.10
26	BB	1272	A	O4'-C1'-N9	6.66	113.52	108.20
26	BB	1448	G	C5-C6-O6	6.66	132.59	128.60
26	BB	1619	G	N1-C2-N2	6.66	122.19	116.20
26	BB	1823	G	C2-N3-C4	-6.66	108.57	111.90
26	BB	2005	A	C5'-C4'-O4'	6.66	117.09	109.10
26	BB	2331	G	P-O3'-C3'	6.66	127.69	119.70
26	BB	1248	G	C8-N9-C4	-6.65	103.74	106.40
26	BB	2303	G	C5-C6-O6	6.65	132.59	128.60
1	AA	1240	U	C5-C4-O4	-6.65	121.91	125.90
19	AS	25	ARG	NE-CZ-NH2	6.65	123.63	120.30
26	BB	596	U	N3-C4-C5	-6.65	110.61	114.60
26	BB	1573	G	C1'-O4'-C4'	-6.65	104.58	109.90
26	BB	1761	C	C2-N1-C1'	-6.65	111.48	118.80
26	BB	1952	A	N3-C4-N9	6.65	132.72	127.40
26	BB	2197	U	C2-N3-C4	-6.65	123.01	127.00
26	BB	2677	G	C5-N7-C8	-6.65	100.97	104.30
26	BB	2792	A	N9-C1'-C2'	-6.65	104.68	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	73	C	N3-C4-N4	6.65	122.66	118.00
1	AA	203	G	N3-C4-C5	-6.65	125.28	128.60
1	AA	222	C	O4'-C1'-N1	6.65	113.52	108.20
1	AA	285	C	O4'-C1'-N1	6.65	113.52	108.20
1	AA	1011	C	P-O3'-C3'	6.65	127.68	119.70
1	AA	1470	U	N3-C2-O2	-6.65	117.54	122.20
4	AD	26	C	N3-C2-O2	6.65	126.56	121.90
25	BA	18	G	C6-C5-N7	-6.65	126.41	130.40
26	BB	369	U	O4'-C1'-N1	6.65	113.52	108.20
26	BB	604	G	N1-C2-N3	-6.65	119.91	123.90
26	BB	1339	G	C8-N9-C4	-6.65	103.74	106.40
26	BB	1364	G	C8-N9-C4	-6.65	103.74	106.40
26	BB	1388	G	C5-N7-C8	-6.65	100.97	104.30
26	BB	1778	U	C5'-C4'-C3'	-6.65	105.36	116.00
26	BB	2456	C	N3-C4-C5	6.65	124.56	121.90
26	BB	2856	A	C5-N7-C8	-6.65	100.58	103.90
1	AA	97	G	N3-C2-N2	-6.65	115.25	119.90
1	AA	1123	U	C3'-C2'-C1'	6.65	106.82	101.50
26	BB	117	G	C4'-C3'-C2'	-6.65	95.95	102.60
26	BB	1959	G	O4'-C1'-N9	6.65	113.52	108.20
1	AA	216	U	N3-C2-O2	-6.65	117.55	122.20
1	AA	243	A	C5-C6-N6	-6.65	118.38	123.70
1	AA	525	C	N3-C4-N4	6.65	122.65	118.00
1	AA	672	U	N1-C2-N3	6.65	118.89	114.90
1	AA	847	G	C6-N1-C2	-6.65	121.11	125.10
1	AA	991	U	C4-C5-C6	6.65	123.69	119.70
1	AA	1088	G	C1'-O4'-C4'	-6.65	104.58	109.90
1	AA	1349	A	C4'-C3'-C2'	-6.65	95.95	102.60
4	AD	10	G	N1-C6-O6	-6.65	115.91	119.90
26	BB	414	C	N1-C1'-C2'	-6.65	104.69	112.00
26	BB	639	U	C5-C4-O4	6.65	129.89	125.90
26	BB	1313	U	C2-N1-C1'	6.65	125.68	117.70
26	BB	1627	G	N3-C2-N2	-6.65	115.25	119.90
26	BB	1698	A	N1-C6-N6	6.65	122.59	118.60
26	BB	2415	G	C3'-C2'-C1'	6.65	106.82	101.50
26	BB	2699	C	C2-N3-C4	6.65	123.22	119.90
1	AA	100	G	N9-C4-C5	6.65	108.06	105.40
1	AA	793	U	N1-C2-O2	-6.65	118.15	122.80
26	BB	1147	A	C4-C5-C6	-6.65	113.68	117.00
26	BB	1329	U	N1-C2-N3	6.65	118.89	114.90
1	AA	641	U	N1-C1'-C2'	-6.64	104.69	112.00
25	BA	64	G	N3-C4-C5	-6.64	125.28	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	111	U	C6-N1-C2	-6.64	117.01	121.00
26	BB	491	G	N3-C4-C5	-6.64	125.28	128.60
26	BB	629	G	C4-N9-C1'	-6.64	117.86	126.50
26	BB	881	G	C5-C6-N1	6.64	114.82	111.50
26	BB	1210	G	C5-C6-N1	6.64	114.82	111.50
26	BB	1353	A	C5-N7-C8	6.64	107.22	103.90
26	BB	1586	A	C6-C5-N7	6.64	136.95	132.30
26	BB	2234	G	C2-N3-C4	6.64	115.22	111.90
26	BB	2751	G	C6-N1-C2	-6.64	121.11	125.10
1	AA	104	G	N7-C8-N9	6.64	116.42	113.10
1	AA	394	G	C6-N1-C2	-6.64	121.11	125.10
1	AA	815	A	C2-N3-C4	6.64	113.92	110.60
1	AA	818	G	C3'-C2'-C1'	-6.64	96.19	101.50
1	AA	1084	G	P-O3'-C3'	6.64	127.67	119.70
1	AA	1266	G	N3-C4-C5	-6.64	125.28	128.60
1	AA	1482	G	C8-N9-C4	-6.64	103.74	106.40
26	BB	68	G	C8-N9-C4	-6.64	103.74	106.40
26	BB	104	A	N7-C8-N9	-6.64	110.48	113.80
26	BB	110	G	C8-N9-C4	-6.64	103.74	106.40
26	BB	1407	G	C1'-O4'-C4'	-6.64	104.59	109.90
26	BB	1752	C	O4'-C1'-N1	6.64	113.51	108.20
26	BB	2163	A	N1-C6-N6	-6.64	114.61	118.60
26	BB	2663	G	P-O3'-C3'	6.64	127.67	119.70
26	BB	2823	A	N9-C1'-C2'	-6.64	104.69	112.00
1	AA	1182	G	N3-C4-N9	-6.64	122.02	126.00
26	BB	171	U	N3-C2-O2	-6.64	117.55	122.20
26	BB	306	U	N1-C2-N3	6.64	118.88	114.90
26	BB	735	A	N9-C4-C5	-6.64	103.14	105.80
26	BB	1216	G	C5'-C4'-O4'	6.64	117.07	109.10
26	BB	1342	A	C5-C6-N1	6.64	121.02	117.70
26	BB	2440	C	N3-C4-C5	-6.64	119.24	121.90
26	BB	2591	C	P-O3'-C3'	6.64	127.67	119.70
1	AA	1337	G	C4'-C3'-C2'	6.64	109.24	102.60
1	AA	1435	G	N9-C1'-C2'	-6.64	104.70	112.00
3	AC	31	U	O4'-C1'-N1	6.64	113.51	108.20
25	BA	51	G	N9-C4-C5	6.64	108.06	105.40
26	BB	17	G	N1-C6-O6	6.64	123.88	119.90
26	BB	216	A	C5'-C4'-O4'	6.64	117.07	109.10
26	BB	2034	U	C1'-O4'-C4'	-6.64	104.59	109.90
26	BB	2750	A	C5'-C4'-O4'	6.64	117.07	109.10
26	BB	2811	G	C2-N3-C4	6.64	115.22	111.90
26	BB	2891	U	C5-C6-N1	-6.64	119.38	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	15	G	C8-N9-C4	-6.64	103.75	106.40
1	AA	230	G	C5-C6-O6	-6.64	124.62	128.60
1	AA	1245	C	C5-C6-N1	6.64	124.32	121.00
1	AA	1535	C	C4-C5-C6	-6.64	114.08	117.40
22	AV	60	PHE	CB-CG-CD1	6.64	125.45	120.80
26	BB	145	C	C5'-C4'-O4'	6.64	117.07	109.10
26	BB	320	A	N9-C4-C5	6.64	108.45	105.80
26	BB	816	C	N3-C4-C5	-6.64	119.25	121.90
26	BB	1571	A	C4-C5-N7	6.64	114.02	110.70
26	BB	2781	A	C6-N1-C2	-6.64	114.62	118.60
30	BF	16	GLU	OE1-CD-OE2	6.64	131.27	123.30
1	AA	91	U	C1'-O4'-C4'	-6.64	104.59	109.90
1	AA	682	G	N1-C2-N3	6.64	127.88	123.90
1	AA	1126	U	N3-C4-C5	6.64	118.58	114.60
1	AA	1390	U	C2-N3-C4	-6.64	123.02	127.00
1	AA	1514	G	N1-C2-N2	6.64	122.17	116.20
3	AC	41	A	N3-C4-N9	-6.64	122.09	127.40
11	AK	83	ARG	NE-CZ-NH1	6.64	123.62	120.30
12	AL	37	TYR	CA-CB-CG	6.64	126.01	113.40
26	BB	24	G	C6-N1-C2	-6.64	121.12	125.10
26	BB	89	A	C5-C6-N1	6.64	121.02	117.70
26	BB	146	A	C5-C6-N1	6.64	121.02	117.70
26	BB	333	G	C2-N3-C4	6.64	115.22	111.90
26	BB	1035	U	C5-C4-O4	6.64	129.88	125.90
26	BB	1210	G	C2'-C3'-O3'	6.64	124.32	113.70
1	AA	450	G	N3-C4-N9	6.63	129.98	126.00
1	AA	793	U	N1-C2-N3	6.63	118.88	114.90
1	AA	1109	C	C2-N1-C1'	-6.63	111.50	118.80
1	AA	1405	G	C6-N1-C2	-6.63	121.12	125.10
25	BA	12	C	N1-C2-N3	-6.63	114.56	119.20
26	BB	526	A	C8-N9-C4	6.63	108.45	105.80
26	BB	770	G	N1-C2-N3	-6.63	119.92	123.90
26	BB	1199	U	C5-C6-N1	-6.63	119.38	122.70
26	BB	2231	U	C5-C6-N1	-6.63	119.38	122.70
26	BB	2779	U	O4'-C1'-N1	6.63	113.51	108.20
1	AA	587	G	C6-N1-C2	6.63	129.08	125.10
4	AD	72	C	C1'-O4'-C4'	6.63	115.21	109.90
26	BB	76	C	N3-C2-O2	-6.63	117.26	121.90
26	BB	612	G	C5-C6-O6	6.63	132.58	128.60
26	BB	1310	G	C4'-C3'-C2'	-6.63	95.97	102.60
26	BB	2193	G	N3-C4-N9	6.63	129.98	126.00
26	BB	2892	G	N7-C8-N9	6.63	116.42	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	138	G	C6-N1-C2	-6.63	121.12	125.10
1	AA	999	C	O4'-C1'-N1	6.63	113.51	108.20
1	AA	1315	U	N1-C1'-C2'	-6.63	104.70	112.00
1	AA	1493	A	N1-C6-N6	6.63	122.58	118.60
2	AB	22	G	C8-N9-C4	6.63	109.05	106.40
12	AL	84	ARG	NE-CZ-NH1	6.63	123.62	120.30
26	BB	330	A	N1-C6-N6	-6.63	114.62	118.60
26	BB	782	A	C8-N9-C4	-6.63	103.15	105.80
26	BB	834	G	N1-C2-N3	-6.63	119.92	123.90
26	BB	1057	A	C8-N9-C4	6.63	108.45	105.80
26	BB	1284	A	C5-C6-N6	-6.63	118.39	123.70
26	BB	2455	G	C6-C5-N7	-6.63	126.42	130.40
26	BB	2586	U	C1'-O4'-C4'	-6.63	104.59	109.90
2	AB	73	G	C6-C5-N7	-6.63	126.42	130.40
26	BB	817	C	C3'-C2'-C1'	6.63	106.80	101.50
26	BB	1019	U	C5-C4-O4	-6.63	121.92	125.90
26	BB	1120	G	C5-C6-N1	-6.63	108.19	111.50
26	BB	2100	G	C5'-C4'-C3'	-6.63	105.39	116.00
1	AA	227	G	C6-N1-C2	-6.63	121.12	125.10
1	AA	839	C	N3-C4-N4	6.63	122.64	118.00
1	AA	1024	G	N9-C4-C5	6.63	108.05	105.40
25	BA	27	C	C5-C6-N1	6.63	124.31	121.00
26	BB	45	G	C3'-C2'-C1'	6.63	106.80	101.50
26	BB	72	U	N1-C2-N3	6.63	118.88	114.90
26	BB	560	C	O4'-C1'-N1	6.63	113.50	108.20
26	BB	1045	C	O4'-C1'-N1	6.63	113.50	108.20
26	BB	1950	G	C3'-C2'-C1'	6.63	106.80	101.50
26	BB	2667	C	N1-C2-O2	6.63	122.88	118.90
26	BB	2857	G	N1-C6-O6	6.63	123.88	119.90
1	AA	135	C	N1-C2-O2	6.63	122.88	118.90
1	AA	138	G	C8-N9-C4	-6.63	103.75	106.40
1	AA	183	C	C1'-O4'-C4'	-6.63	104.60	109.90
1	AA	206	C	C5-C4-N4	-6.63	115.56	120.20
1	AA	525	C	C5'-C4'-O4'	6.63	117.05	109.10
1	AA	755	G	N7-C8-N9	6.63	116.41	113.10
1	AA	1446	A	C1'-O4'-C4'	-6.63	104.60	109.90
26	BB	36	G	C3'-C2'-C1'	-6.63	96.20	101.50
26	BB	184	C	C6-N1-C2	-6.63	117.65	120.30
26	BB	1086	A	N9-C1'-C2'	6.63	122.61	114.00
26	BB	1292	G	N7-C8-N9	6.63	116.41	113.10
26	BB	1767	G	N7-C8-N9	6.63	116.41	113.10
26	BB	1998	A	C5-N7-C8	6.63	107.21	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2664	G	N1-C2-N2	-6.63	110.24	116.20
26	BB	1829	A	N9-C4-C5	-6.62	103.15	105.80
26	BB	2301	C	N1-C1'-C2'	-6.62	104.71	112.00
26	BB	2474	U	N1-C2-O2	6.62	127.44	122.80
26	BB	2809	A	C4-C5-N7	-6.62	107.39	110.70
1	AA	508	U	N1-C2-N3	-6.62	110.93	114.90
1	AA	747	A	C5-C6-N6	-6.62	118.40	123.70
5	AE	184	ALA	CB-CA-C	6.62	120.04	110.10
18	AR	71	ARG	NE-CZ-NH2	6.62	123.61	120.30
26	BB	551	G	N7-C8-N9	6.62	116.41	113.10
26	BB	677	A	C6-C5-N7	6.62	136.94	132.30
26	BB	866	A	N1-C2-N3	-6.62	125.99	129.30
26	BB	1521	G	C1'-O4'-C4'	6.62	115.20	109.90
26	BB	2236	U	P-O3'-C3'	6.62	127.65	119.70
26	BB	2338	C	N3-C4-N4	6.62	122.64	118.00
26	BB	2456	C	N3-C2-O2	-6.62	117.26	121.90
26	BB	2829	A	N3-C4-C5	-6.62	122.16	126.80
1	AA	218	U	C5-C4-O4	-6.62	121.93	125.90
1	AA	611	C	N1-C2-O2	6.62	122.87	118.90
1	AA	1219	A	C6-N1-C2	6.62	122.57	118.60
26	BB	843	G	C8-N9-C4	-6.62	103.75	106.40
26	BB	1166	G	C5-C6-N1	6.62	114.81	111.50
26	BB	1726	C	O4'-C1'-N1	6.62	113.50	108.20
26	BB	1819	A	N7-C8-N9	6.62	117.11	113.80
26	BB	1975	G	C4-C5-N7	6.62	113.45	110.80
26	BB	2395	C	C5'-C4'-O4'	6.62	117.05	109.10
26	BB	2591	C	C2'-C3'-O3'	6.62	124.30	113.70
26	BB	48	G	N9-C4-C5	-6.62	102.75	105.40
26	BB	2150	C	C4'-C3'-C2'	-6.62	95.98	102.60
26	BB	2616	C	O4'-C1'-N1	6.62	113.50	108.20
1	AA	92	U	P-O3'-C3'	6.62	127.64	119.70
1	AA	537	G	C5-C6-N1	6.62	114.81	111.50
1	AA	563	A	C4-C5-N7	6.62	114.01	110.70
1	AA	568	G	C5'-C4'-O4'	6.62	117.04	109.10
1	AA	617	G	C2-N3-C4	6.62	115.21	111.90
1	AA	1177	G	O4'-C4'-C3'	6.62	111.39	106.10
1	AA	1188	A	O4'-C1'-N9	6.62	113.50	108.20
1	AA	1409	C	N3-C2-O2	-6.62	117.27	121.90
1	AA	1409	C	O4'-C1'-N1	6.62	113.49	108.20
25	BA	85	G	O4'-C1'-N9	6.62	113.50	108.20
26	BB	1266	G	C4-C5-C6	6.62	122.77	118.80
26	BB	1315	C	O4'-C1'-N1	6.62	113.50	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2015	A	C4-C5-C6	-6.62	113.69	117.00
26	BB	2047	C	C1'-O4'-C4'	6.62	115.19	109.90
1	AA	230	G	N9-C1'-C2'	-6.62	104.72	112.00
1	AA	654	G	N1-C2-N2	6.62	122.16	116.20
26	BB	127	A	C4-C5-N7	-6.62	107.39	110.70
26	BB	550	C	C4-C5-C6	-6.62	114.09	117.40
26	BB	1137	G	N3-C4-C5	-6.62	125.29	128.60
26	BB	2576	G	N3-C4-C5	-6.62	125.29	128.60
1	AA	479	U	C4'-C3'-C2'	-6.62	95.98	102.60
1	AA	755	G	N1-C2-N3	6.62	127.87	123.90
2	AB	21	A	C5-C6-N6	-6.62	118.41	123.70
8	AH	44	ARG	NE-CZ-NH1	6.62	123.61	120.30
26	BB	264	C	C4'-C3'-C2'	-6.62	95.98	102.60
26	BB	919	U	C4-C5-C6	6.62	123.67	119.70
26	BB	1093	G	C6-C5-N7	6.62	134.37	130.40
26	BB	1275	A	C5-N7-C8	-6.62	100.59	103.90
26	BB	1678	A	O4'-C1'-N9	6.62	113.49	108.20
1	AA	210	C	N1-C2-N3	6.61	123.83	119.20
1	AA	761	G	C4-C5-C6	6.61	122.77	118.80
1	AA	1021	A	C5-N7-C8	-6.61	100.59	103.90
2	AB	45	U	C5-C6-N1	-6.61	119.39	122.70
26	BB	83	A	C6-N1-C2	6.61	122.57	118.60
26	BB	298	G	N3-C4-C5	-6.61	125.29	128.60
26	BB	371	A	C3'-C2'-C1'	6.61	106.79	101.50
26	BB	529	A	C5-C6-N1	6.61	121.01	117.70
26	BB	1910	G	N3-C2-N2	-6.61	115.27	119.90
26	BB	1984	G	N9-C4-C5	-6.61	102.75	105.40
26	BB	2240	U	C4-C5-C6	6.61	123.67	119.70
26	BB	2260	C	C5-C4-N4	-6.61	115.57	120.20
26	BB	2494	G	C4-C5-C6	6.61	122.77	118.80
1	AA	575	G	C6-N1-C2	-6.61	121.13	125.10
1	AA	636	U	O4'-C1'-N1	6.61	113.49	108.20
26	BB	226	A	C6-N1-C2	-6.61	114.63	118.60
26	BB	489	G	C2-N3-C4	6.61	115.21	111.90
26	BB	1057	A	C5'-C4'-O4'	6.61	117.03	109.10
26	BB	1343	G	C4-C5-N7	-6.61	108.16	110.80
26	BB	1650	A	C6-N1-C2	-6.61	114.63	118.60
26	BB	1863	G	C6-C5-N7	-6.61	126.43	130.40
26	BB	2151	U	N3-C4-O4	6.61	124.03	119.40
1	AA	172	A	N1-C2-N3	6.61	132.60	129.30
1	AA	215	C	N3-C2-O2	-6.61	117.27	121.90
26	BB	147	C	O4'-C1'-C2'	6.61	113.55	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	439	A	N7-C8-N9	6.61	117.11	113.80
26	BB	2116	G	N1-C2-N2	-6.61	110.25	116.20
26	BB	2255	G	N7-C8-N9	-6.61	109.80	113.10
26	BB	2656	U	N1-C2-O2	-6.61	118.17	122.80
45	BU	95	ARG	NE-CZ-NH1	6.61	123.61	120.30
1	AA	122	G	C4-C5-N7	-6.61	108.16	110.80
1	AA	744	C	C6-N1-C1'	6.61	128.73	120.80
54	B3	12	ARG	NE-CZ-NH1	6.61	123.60	120.30
1	AA	646	G	N9-C1'-C2'	-6.61	104.73	112.00
1	AA	1092	A	N3-C4-N9	-6.61	122.11	127.40
2	AB	25	C	C4'-C3'-C2'	-6.61	95.99	102.60
4	AD	23	G	C5-N7-C8	-6.61	101.00	104.30
25	BA	13	G	N3-C4-C5	-6.61	125.30	128.60
26	BB	46	G	N9-C4-C5	-6.61	102.76	105.40
26	BB	480	A	C5-C6-N1	-6.61	114.40	117.70
26	BB	1663	G	C5-C6-N1	6.61	114.80	111.50
26	BB	1723	G	C8-N9-C4	-6.61	103.76	106.40
26	BB	1772	A	C5-C6-N6	-6.61	118.42	123.70
26	BB	1895	C	C4-C5-C6	-6.61	114.10	117.40
26	BB	2135	A	N9-C4-C5	-6.61	103.16	105.80
26	BB	2721	A	C6-N1-C2	6.61	122.56	118.60
26	BB	2834	G	C1'-O4'-C4'	-6.61	104.61	109.90
1	AA	90	C	O4'-C1'-N1	6.61	113.48	108.20
1	AA	151	A	N3-C4-C5	-6.61	122.18	126.80
1	AA	1241	G	C6-N1-C2	-6.61	121.14	125.10
4	AD	61	U	N3-C4-C5	6.61	118.56	114.60
26	BB	306	U	C4-C5-C6	6.61	123.66	119.70
26	BB	512	G	C5-C6-O6	6.61	132.56	128.60
26	BB	1037	G	N3-C4-C5	-6.61	125.30	128.60
26	BB	1278	C	C5-C6-N1	6.61	124.30	121.00
26	BB	1320	C	C4-C5-C6	-6.61	114.10	117.40
26	BB	1503	A	C5'-C4'-C3'	-6.61	105.43	116.00
1	AA	1228	C	N3-C2-O2	-6.60	117.28	121.90
26	BB	1227	G	C6-C5-N7	-6.60	126.44	130.40
26	BB	2524	G	C1'-O4'-C4'	-6.60	104.62	109.90
56	B5	18	PHE	CB-CG-CD1	-6.60	116.18	120.80
1	AA	688	G	C5-C6-O6	-6.60	124.64	128.60
1	AA	1170	A	N9-C4-C5	6.60	108.44	105.80
26	BB	277	G	C4-C5-C6	6.60	122.76	118.80
26	BB	757	G	N1-C6-O6	6.60	123.86	119.90
26	BB	990	A	N1-C2-N3	-6.60	126.00	129.30
26	BB	1109	C	O4'-C1'-N1	6.60	113.48	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1172	C	N1-C1'-C2'	-6.60	104.74	112.00
26	BB	1188	U	C2-N3-C4	-6.60	123.04	127.00
26	BB	2319	G	C4-C5-N7	6.60	113.44	110.80
26	BB	2366	A	C3'-C2'-C1'	6.60	106.78	101.50
26	BB	505	A	P-O3'-C3'	6.60	127.62	119.70
26	BB	882	G	C5'-C4'-O4'	6.60	117.02	109.10
1	AA	141	G	C6-C5-N7	6.60	134.36	130.40
1	AA	265	G	C6-C5-N7	6.60	134.36	130.40
1	AA	769	G	C2'-C3'-O3'	6.60	124.26	113.70
1	AA	1146	A	N1-C2-N3	-6.60	126.00	129.30
1	AA	1461	G	N9-C4-C5	-6.60	102.76	105.40
26	BB	243	U	O4'-C4'-C3'	6.60	111.38	106.10
26	BB	379	G	C4-C5-N7	6.60	113.44	110.80
26	BB	887	U	C6-N1-C2	-6.60	117.04	121.00
26	BB	1397	U	C3'-C2'-C1'	6.60	106.78	101.50
26	BB	1437	C	N3-C4-N4	6.60	122.62	118.00
26	BB	1480	C	O4'-C1'-N1	6.60	113.48	108.20
26	BB	1703	G	O4'-C4'-C3'	-6.60	97.40	104.00
1	AA	158	G	C8-N9-C4	-6.60	103.76	106.40
1	AA	404	G	N1-C6-O6	-6.60	115.94	119.90
1	AA	415	A	C8-N9-C4	-6.60	103.16	105.80
1	AA	710	G	C4-C5-N7	-6.60	108.16	110.80
9	AI	42	TRP	CG-CD2-CE3	-6.60	127.96	133.90
26	BB	83	A	C2-N3-C4	6.60	113.90	110.60
26	BB	677	A	N1-C6-N6	6.60	122.56	118.60
26	BB	693	A	O4'-C1'-N9	6.60	113.48	108.20
26	BB	1580	A	N9-C1'-C2'	-6.60	104.74	112.00
26	BB	1814	G	C4'-C3'-O3'	6.60	126.19	113.00
26	BB	2792	A	C5'-C4'-O4'	6.60	117.02	109.10
1	AA	378	G	C8-N9-C4	-6.60	103.76	106.40
1	AA	1371	G	N3-C4-N9	6.60	129.96	126.00
1	AA	1442	G	C3'-C2'-C1'	-6.60	96.22	101.50
1	AA	1517	G	C6-C5-N7	-6.60	126.44	130.40
3	AC	56	G	N3-C4-C5	6.60	131.90	128.60
26	BB	1922	G	C2-N3-C4	6.60	115.20	111.90
26	BB	2081	U	N1-C2-N3	6.60	118.86	114.90
26	BB	2553	G	C4-C5-C6	6.60	122.76	118.80
26	BB	2638	G	N3-C2-N2	6.60	124.52	119.90
1	AA	481	G	O4'-C4'-C3'	6.59	111.38	106.10
1	AA	1348	U	N1-C2-N3	6.59	118.86	114.90
4	AD	26	C	N1-C1'-C2'	6.59	122.57	114.00
26	BB	137	U	C1'-O4'-C4'	6.59	115.17	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	675	A	C4-C5-N7	-6.59	107.40	110.70
26	BB	1026	G	N3-C4-C5	-6.59	125.30	128.60
26	BB	1063	G	C5-C6-N1	-6.59	108.20	111.50
26	BB	1120	G	C4'-C3'-C2'	-6.59	96.01	102.60
26	BB	1296	G	N3-C4-N9	6.59	129.96	126.00
26	BB	1408	G	N3-C2-N2	-6.59	115.28	119.90
26	BB	1676	A	N1-C6-N6	6.59	122.56	118.60
26	BB	1906	G	N1-C2-N2	6.59	122.13	116.20
1	AA	200	G	C2-N3-C4	6.59	115.20	111.90
25	BA	1	U	O4'-C1'-N1	6.59	113.47	108.20
1	AA	1208	C	N3-C4-N4	-6.59	113.39	118.00
1	AA	1432	G	N1-C2-N3	-6.59	119.94	123.90
1	AA	1506	U	C2-N3-C4	-6.59	123.05	127.00
1	AA	1535	C	C3'-C2'-C1'	6.59	106.77	101.50
2	AB	5	G	C4-C5-N7	-6.59	108.16	110.80
4	AD	36	A	C4-C5-N7	6.59	114.00	110.70
25	BA	56	G	N9-C4-C5	6.59	108.04	105.40
25	BA	59	A	O4'-C1'-N9	6.59	113.47	108.20
26	BB	173	A	C4-C5-C6	-6.59	113.70	117.00
26	BB	1251	C	C4-C5-C6	6.59	120.69	117.40
26	BB	1792	G	C8-N9-C4	-6.59	103.76	106.40
26	BB	2353	G	C4-C5-N7	6.59	113.44	110.80
26	BB	2751	G	P-O3'-C3'	6.59	127.61	119.70
1	AA	188	C	N3-C2-O2	-6.59	117.29	121.90
1	AA	277	C	C5'-C4'-O4'	6.59	117.01	109.10
1	AA	382	A	N1-C2-N3	-6.59	126.00	129.30
1	AA	385	C	C2'-C3'-O3'	6.59	124.24	113.70
1	AA	922	G	N3-C4-N9	6.59	129.95	126.00
1	AA	924	C	N3-C4-N4	-6.59	113.39	118.00
1	AA	990	C	C6-N1-C2	6.59	122.94	120.30
26	BB	473	G	C4'-C3'-O3'	6.59	126.18	113.00
26	BB	1086	A	O4'-C1'-N9	6.59	113.47	108.20
26	BB	1367	A	N9-C4-C5	6.59	108.44	105.80
26	BB	2120	G	N1-C6-O6	6.59	123.85	119.90
26	BB	2131	U	N1-C2-N3	6.59	118.85	114.90
26	BB	2876	G	O4'-C1'-N9	6.59	113.47	108.20
26	BB	2877	G	N3-C2-N2	-6.59	115.29	119.90
1	AA	1250	A	N1-C6-N6	-6.59	114.65	118.60
9	AI	42	TRP	NE1-CE2-CZ2	6.59	137.65	130.40
26	BB	497	A	N9-C4-C5	6.59	108.44	105.80
26	BB	636	G	C4-C5-N7	-6.59	108.17	110.80
26	BB	2293	G	C5'-C4'-O4'	6.59	117.01	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2708	G	C5-C6-O6	-6.59	124.65	128.60
1	AA	112	G	N3-C4-C5	-6.59	125.31	128.60
1	AA	727	G	C8-N9-C4	-6.59	103.77	106.40
1	AA	983	A	P-O3'-C3'	6.59	127.61	119.70
26	BB	92	U	C2-N3-C4	-6.59	123.05	127.00
26	BB	252	G	C6-N1-C2	-6.59	121.15	125.10
26	BB	688	U	C5-C4-O4	6.59	129.85	125.90
26	BB	1579	A	C4-C5-C6	-6.59	113.71	117.00
26	BB	2025	C	N3-C4-C5	-6.59	119.27	121.90
26	BB	2410	G	C5'-C4'-O4'	6.59	117.00	109.10
26	BB	2868	A	N3-C4-C5	-6.59	122.19	126.80
1	AA	112	G	N1-C2-N3	6.58	127.85	123.90
1	AA	176	C	C4'-C3'-C2'	-6.58	96.02	102.60
1	AA	231	U	N3-C4-O4	6.58	124.01	119.40
1	AA	1386	G	N9-C1'-C2'	-6.58	104.76	112.00
26	BB	287	G	N1-C6-O6	6.58	123.85	119.90
26	BB	696	G	N7-C8-N9	-6.58	109.81	113.10
26	BB	858	G	C5-N7-C8	-6.58	101.01	104.30
26	BB	2164	C	N1-C2-O2	6.58	122.85	118.90
26	BB	2171	A	N1-C2-N3	-6.58	126.01	129.30
26	BB	2337	G	N1-C6-O6	-6.58	115.95	119.90
26	BB	2349	G	C5'-C4'-C3'	-6.58	105.46	116.00
1	AA	75	G	N3-C4-C5	-6.58	125.31	128.60
1	AA	146	G	N3-C4-C5	-6.58	125.31	128.60
1	AA	356	A	C8-N9-C4	-6.58	103.17	105.80
1	AA	404	G	C5'-C4'-C3'	-6.58	105.47	116.00
2	AB	5	G	C6-N1-C2	-6.58	121.15	125.10
26	BB	263	G	N9-C1'-C2'	-6.58	104.76	112.00
26	BB	716	A	C1'-O4'-C4'	-6.58	104.63	109.90
26	BB	1296	G	N3-C4-C5	-6.58	125.31	128.60
26	BB	1637	A	C4'-C3'-C2'	-6.58	96.02	102.60
26	BB	1778	U	O4'-C4'-C3'	6.58	111.37	106.10
26	BB	1903	G	C4-C5-C6	6.58	122.75	118.80
26	BB	2173	A	C5'-C4'-O4'	6.58	117.00	109.10
26	BB	2250	G	N3-C4-N9	6.58	129.95	126.00
35	BK	32	VAL	CA-CB-CG1	6.58	120.78	110.90
1	AA	556	C	C2-N3-C4	6.58	123.19	119.90
25	BA	72	G	C6-C5-N7	-6.58	126.45	130.40
26	BB	512	G	N1-C6-O6	-6.58	115.95	119.90
26	BB	1252	G	N3-C4-C5	-6.58	125.31	128.60
26	BB	2036	C	N3-C4-C5	-6.58	119.27	121.90
26	BB	2225	A	N3-C4-C5	6.58	131.41	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	BV	83	ALA	N-CA-CB	6.58	119.31	110.10
1	AA	744	C	C6-N1-C2	-6.58	117.67	120.30
1	AA	1106	G	N7-C8-N9	-6.58	109.81	113.10
25	BA	80	U	C5-C6-N1	-6.58	119.41	122.70
26	BB	250	G	N1-C2-N3	-6.58	119.95	123.90
26	BB	1092	C	C5-C6-N1	-6.58	117.71	121.00
26	BB	1710	G	C5-N7-C8	-6.58	101.01	104.30
26	BB	2642	G	N1-C2-N2	6.58	122.12	116.20
26	BB	2657	A	C8-N9-C4	6.58	108.43	105.80
31	BG	113	PHE	CB-CG-CD1	-6.58	116.19	120.80
1	AA	462	G	C5-C6-N1	6.58	114.79	111.50
1	AA	944	G	C2-N3-C4	6.58	115.19	111.90
1	AA	1057	G	N1-C2-N3	6.58	127.85	123.90
1	AA	1399	C	C5-C4-N4	-6.58	115.59	120.20
2	AB	66	C	C4-C5-C6	-6.58	114.11	117.40
26	BB	650	C	C4-C5-C6	6.58	120.69	117.40
26	BB	2149	U	C5'-C4'-C3'	6.58	126.53	116.00
26	BB	2494	G	N3-C4-C5	-6.58	125.31	128.60
26	BB	2904	U	N1-C2-N3	6.58	118.85	114.90
26	BB	248	G	C4'-C3'-C2'	-6.58	96.02	102.60
26	BB	906	U	C2-N3-C4	-6.58	123.05	127.00
26	BB	1830	C	C2-N3-C4	-6.58	116.61	119.90
26	BB	2551	C	N1-C2-O2	6.58	122.85	118.90
26	BB	2666	C	N3-C4-N4	6.58	122.60	118.00
26	BB	2713	U	C6-N1-C2	-6.58	117.05	121.00
43	BS	32	ARG	CD-NE-CZ	6.58	132.81	123.60
1	AA	1024	G	N7-C8-N9	6.58	116.39	113.10
1	AA	1178	G	C5-N7-C8	6.58	107.59	104.30
26	BB	36	G	N7-C8-N9	6.58	116.39	113.10
26	BB	900	A	C4-C5-C6	6.58	120.29	117.00
26	BB	1056	G	O5'-C5'-C4'	6.58	124.19	111.70
26	BB	1285	A	P-O3'-C3'	6.58	127.59	119.70
26	BB	1303	G	C6-N1-C2	-6.58	121.15	125.10
26	BB	2479	U	C2-N3-C4	-6.58	123.06	127.00
26	BB	2687	U	N3-C4-C5	6.58	118.55	114.60
26	BB	2778	A	P-O3'-C3'	6.58	127.59	119.70
1	AA	665	A	C5-C6-N6	6.57	128.96	123.70
1	AA	773	G	N3-C4-C5	-6.57	125.31	128.60
1	AA	855	U	C6-N1-C2	-6.57	117.06	121.00
2	AB	71	C	C6-N1-C2	-6.57	117.67	120.30
26	BB	160	A	N1-C2-N3	6.57	132.59	129.30
26	BB	266	G	C6-C5-N7	-6.57	126.46	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	484	C	C2-N3-C4	6.57	123.19	119.90
26	BB	651	G	C2-N3-C4	6.57	115.19	111.90
26	BB	1132	U	N1-C2-O2	6.57	127.40	122.80
26	BB	1424	G	C6-N1-C2	-6.57	121.16	125.10
26	BB	2274	A	C1'-O4'-C4'	-6.57	104.64	109.90
26	BB	2640	G	C2-N3-C4	6.57	115.19	111.90
26	BB	2640	G	N9-C1'-C2'	-6.57	104.77	112.00
1	AA	380	G	O4'-C1'-N9	6.57	113.46	108.20
1	AA	887	G	C8-N9-C4	-6.57	103.77	106.40
1	AA	890	G	N3-C2-N2	-6.57	115.30	119.90
1	AA	1160	G	N9-C4-C5	-6.57	102.77	105.40
26	BB	568	U	C3'-C2'-C1'	6.57	106.76	101.50
26	BB	1445	G	N1-C6-O6	6.57	123.84	119.90
26	BB	2242	G	C5-C6-O6	6.57	132.54	128.60
1	AA	4	U	P-O3'-C3'	6.57	127.58	119.70
1	AA	278	G	C5-C6-O6	-6.57	124.66	128.60
2	AB	24	G	N3-C2-N2	6.57	124.50	119.90
3	AC	22	G	O4'-C1'-N9	6.57	113.46	108.20
26	BB	233	A	C3'-C2'-C1'	6.57	106.76	101.50
26	BB	343	C	C4'-C3'-C2'	-6.57	96.03	102.60
26	BB	1155	A	C8-N9-C4	6.57	108.43	105.80
26	BB	2043	C	O4'-C1'-N1	6.57	113.46	108.20
26	BB	2106	U	C2'-C3'-O3'	6.57	124.21	113.70
26	BB	2316	G	C6-C5-N7	6.57	134.34	130.40
26	BB	2545	G	O4'-C1'-N9	6.57	113.46	108.20
26	BB	2701	U	O4'-C1'-N1	6.57	113.46	108.20
1	AA	1422	G	N3-C4-C5	-6.57	125.31	128.60
12	AL	6	TYR	CB-CG-CD1	-6.57	117.06	121.00
26	BB	135	U	N1-C2-N3	6.57	118.84	114.90
26	BB	832	U	C3'-C2'-C1'	-6.57	96.25	101.50
26	BB	1106	G	C6-N1-C2	-6.57	121.16	125.10
26	BB	1501	G	C5-N7-C8	6.57	107.58	104.30
26	BB	1591	A	N1-C6-N6	6.57	122.54	118.60
26	BB	2024	G	N3-C4-N9	-6.57	122.06	126.00
26	BB	2719	G	O4'-C4'-C3'	6.57	111.36	106.10
1	AA	162	A	N7-C8-N9	-6.57	110.52	113.80
1	AA	607	A	N7-C8-N9	6.57	117.08	113.80
1	AA	1173	U	O4'-C1'-N1	6.57	113.45	108.20
1	AA	1500	A	C4-C5-C6	-6.57	113.72	117.00
26	BB	350	G	O4'-C1'-N9	6.57	113.45	108.20
26	BB	684	G	N3-C4-C5	-6.57	125.32	128.60
26	BB	858	G	N7-C8-N9	6.57	116.38	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1045	C	C4'-C3'-C2'	-6.57	96.03	102.60
26	BB	1736	U	N3-C4-O4	6.57	124.00	119.40
26	BB	2047	C	O4'-C1'-C2'	-6.57	99.23	105.80
26	BB	2076	U	O5'-P-OP1	-6.57	99.79	105.70
26	BB	2213	U	C5-C4-O4	6.57	129.84	125.90
26	BB	2406	A	N3-C4-N9	6.57	132.65	127.40
1	AA	355	C	O4'-C1'-N1	6.57	113.45	108.20
1	AA	454	G	C6-N1-C2	-6.57	121.16	125.10
1	AA	522	C	C2-N1-C1'	-6.57	111.58	118.80
1	AA	888	G	N3-C4-N9	6.57	129.94	126.00
4	AD	20	G	C5-C6-N1	6.57	114.78	111.50
26	BB	548	G	P-O3'-C3'	6.57	127.58	119.70
26	BB	969	G	N3-C2-N2	6.57	124.50	119.90
26	BB	2188	U	C5-C6-N1	-6.57	119.42	122.70
26	BB	2564	A	N1-C6-N6	-6.57	114.66	118.60
26	BB	2788	C	C5'-C4'-O4'	6.57	116.98	109.10
26	BB	2834	G	N3-C4-C5	-6.57	125.32	128.60
1	AA	925	G	C3'-C2'-C1'	-6.56	96.25	101.50
26	BB	446	G	C1'-O4'-C4'	-6.56	104.65	109.90
26	BB	1208	C	C3'-C2'-C1'	-6.56	96.25	101.50
25	BA	28	C	C1'-O4'-C4'	-6.56	104.65	109.90
26	BB	894	U	C2-N3-C4	-6.56	123.06	127.00
26	BB	1477	A	C5-C6-N1	-6.56	114.42	117.70
26	BB	1840	G	N9-C1'-C2'	-6.56	104.78	112.00
26	BB	1904	G	O4'-C1'-C2'	6.56	113.51	107.60
26	BB	2332	C	N3-C2-O2	-6.56	117.31	121.90
26	BB	2499	C	C2-N3-C4	6.56	123.18	119.90
26	BB	2673	G	N3-C4-N9	6.56	129.94	126.00
26	BB	2723	C	C1'-O4'-C4'	6.56	115.15	109.90
1	AA	803	G	C4-C5-N7	6.56	113.42	110.80
1	AA	1475	G	N9-C1'-C2'	-6.56	104.78	112.00
26	BB	72	U	C1'-O4'-C4'	6.56	115.15	109.90
26	BB	896	A	C6-N1-C2	-6.56	114.66	118.60
26	BB	1568	G	O4'-C1'-N9	6.56	113.45	108.20
26	BB	1921	G	N3-C4-C5	6.56	131.88	128.60
26	BB	32	C	O4'-C1'-N1	6.56	113.45	108.20
26	BB	57	C	P-O3'-C3'	6.56	127.57	119.70
26	BB	254	G	N1-C6-O6	-6.56	115.96	119.90
26	BB	407	G	N3-C2-N2	6.56	124.49	119.90
26	BB	1090	A	C8-N9-C4	-6.56	103.18	105.80
26	BB	1162	G	C4-C5-C6	6.56	122.73	118.80
26	BB	1299	G	O4'-C1'-N9	6.56	113.45	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1872	A	N1-C6-N6	-6.56	114.66	118.60
26	BB	2066	C	N3-C4-N4	6.56	122.59	118.00
26	BB	2726	A	C4'-C3'-C2'	6.56	109.16	102.60
1	AA	567	G	C4-C5-C6	6.56	122.73	118.80
1	AA	724	G	N7-C8-N9	6.56	116.38	113.10
2	AB	9	A	C8-N9-C4	6.56	108.42	105.80
2	AB	71	C	N3-C4-N4	6.56	122.59	118.00
26	BB	11	C	N1-C2-O2	6.56	122.83	118.90
26	BB	1090	A	O4'-C1'-N9	6.56	113.45	108.20
26	BB	1210	G	C5'-C4'-C3'	-6.56	105.51	116.00
26	BB	1232	G	O4'-C1'-N9	6.56	113.45	108.20
26	BB	1237	A	C3'-C2'-C1'	6.56	106.75	101.50
26	BB	2259	U	O3'-P-O5'	-6.56	91.54	104.00
26	BB	2681	C	C4-C5-C6	6.56	120.68	117.40
26	BB	2874	C	C4'-C3'-C2'	-6.56	96.04	102.60
1	AA	133	U	C5'-C4'-O4'	6.56	116.97	109.10
1	AA	213	G	C2-N3-C4	6.56	115.18	111.90
1	AA	332	G	C5'-C4'-O4'	6.56	116.97	109.10
1	AA	502	A	C5-C6-N6	6.56	128.94	123.70
1	AA	1426	G	C5'-C4'-C3'	-6.56	105.51	116.00
3	AC	28	U	N1-C2-O2	6.56	127.39	122.80
4	AD	15	G	C6-N1-C2	-6.56	121.17	125.10
26	BB	39	G	C3'-C2'-C1'	-6.56	96.25	101.50
26	BB	855	G	N9-C4-C5	6.56	108.02	105.40
26	BB	1759	A	N9-C1'-C2'	-6.56	104.79	112.00
1	AA	176	C	C1'-O4'-C4'	-6.55	104.66	109.90
1	AA	558	G	C4-C5-N7	6.55	113.42	110.80
1	AA	750	C	N1-C2-O2	6.55	122.83	118.90
26	BB	8	C	C2-N3-C4	6.55	123.18	119.90
26	BB	234	U	C4-C5-C6	6.55	123.63	119.70
26	BB	239	C	N3-C2-O2	-6.55	117.31	121.90
26	BB	299	A	N1-C2-N3	-6.55	126.02	129.30
26	BB	325	G	C8-N9-C4	-6.55	103.78	106.40
26	BB	363	G	N1-C2-N3	-6.55	119.97	123.90
26	BB	384	A	C3'-C2'-C1'	-6.55	96.26	101.50
26	BB	903	C	N1-C2-O2	6.55	122.83	118.90
26	BB	1144	A	C5'-C4'-O4'	6.55	116.97	109.10
26	BB	1342	A	P-O3'-C3'	6.55	127.57	119.70
26	BB	1623	G	C2-N3-C4	-6.55	108.62	111.90
26	BB	1743	G	C5-C6-N1	6.55	114.78	111.50
26	BB	2175	C	N1-C2-O2	6.55	122.83	118.90
1	AA	635	A	C6-C5-N7	6.55	136.89	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	703	G	C5-N7-C8	-6.55	101.02	104.30
3	AC	37	G	C5-C6-O6	-6.55	124.67	128.60
26	BB	1070	A	O4'-C4'-C3'	6.55	111.34	106.10
26	BB	2172	U	O4'-C1'-N1	6.55	113.44	108.20
26	BB	2522	U	N1-C1'-C2'	-6.55	104.79	112.00
1	AA	207	C	N3-C4-N4	6.55	122.59	118.00
1	AA	355	C	C3'-C2'-C1'	6.55	106.74	101.50
1	AA	727	G	O3'-P-O5'	-6.55	91.55	104.00
1	AA	1203	C	C4'-C3'-C2'	-6.55	96.05	102.60
1	AA	1246	A	C8-N9-C4	-6.55	103.18	105.80
26	BB	478	A	O4'-C4'-C3'	6.55	111.34	106.10
26	BB	1242	U	C1'-O4'-C4'	6.55	115.14	109.90
26	BB	1352	U	O4'-C1'-N1	6.55	113.44	108.20
1	AA	202	G	N1-C6-O6	-6.55	115.97	119.90
1	AA	1043	G	O4'-C4'-C3'	6.55	111.34	106.10
25	BA	112	G	C3'-C2'-C1'	6.55	106.74	101.50
26	BB	663	G	N1-C2-N2	-6.55	110.31	116.20
26	BB	983	A	N3-C4-C5	-6.55	122.22	126.80
26	BB	1461	C	C1'-O4'-C4'	6.55	115.14	109.90
26	BB	1501	G	C6-N1-C2	-6.55	121.17	125.10
26	BB	2196	C	C5'-C4'-C3'	-6.55	105.52	116.00
26	BB	774	G	N3-C4-C5	-6.55	125.33	128.60
26	BB	2835	A	C1'-O4'-C4'	-6.55	104.66	109.90
1	AA	492	C	P-O3'-C3'	6.55	127.56	119.70
1	AA	497	G	C2-N3-C4	6.55	115.17	111.90
1	AA	652	U	C4-C5-C6	6.55	123.63	119.70
1	AA	1367	C	C2-N3-C4	6.55	123.17	119.90
1	AA	1524	C	C5'-C4'-O4'	6.55	116.96	109.10
6	AF	171	ARG	NE-CZ-NH1	6.55	123.57	120.30
17	AQ	100	TRP	NE1-CE2-CZ2	6.55	137.60	130.40
25	BA	25	U	C4-C5-C6	-6.55	115.77	119.70
26	BB	226	A	C3'-C2'-C1'	6.55	106.74	101.50
26	BB	736	C	C2-N3-C4	-6.55	116.63	119.90
26	BB	1126	A	N9-C4-C5	6.55	108.42	105.80
26	BB	1680	U	C2-N3-C4	-6.55	123.07	127.00
26	BB	1826	G	C1'-O4'-C4'	-6.55	104.66	109.90
26	BB	2409	G	C4'-C3'-C2'	-6.55	96.05	102.60
1	AA	592	G	N1-C2-N2	-6.54	110.31	116.20
1	AA	1383	C	C5'-C4'-C3'	-6.54	105.53	116.00
3	AC	17	U	N3-C4-O4	6.54	123.98	119.40
25	BA	7	G	N3-C4-N9	6.54	129.93	126.00
26	BB	1738	G	N1-C2-N2	-6.54	110.31	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2654	A	C5'-C4'-O4'	6.54	116.95	109.10
1	AA	318	G	N9-C1'-C2'	-6.54	104.80	112.00
1	AA	678	U	N1-C2-N3	6.54	118.83	114.90
1	AA	1258	G	C5'-C4'-C3'	-6.54	105.53	116.00
1	AA	1525	G	N3-C4-C5	-6.54	125.33	128.60
2	AB	51	G	N9-C4-C5	6.54	108.02	105.40
26	BB	104	A	N3-C4-C5	-6.54	122.22	126.80
26	BB	151	C	N3-C2-O2	-6.54	117.32	121.90
26	BB	345	A	N1-C2-N3	-6.54	126.03	129.30
26	BB	410	G	C5-C6-N1	6.54	114.77	111.50
26	BB	492	A	O4'-C1'-N9	6.54	113.43	108.20
26	BB	645	C	C6-N1-C1'	-6.54	112.95	120.80
26	BB	1268	A	C8-N9-C4	6.54	108.42	105.80
26	BB	1436	G	C5-C6-O6	-6.54	124.67	128.60
26	BB	1543	G	C5-N7-C8	-6.54	101.03	104.30
26	BB	2210	U	O4'-C4'-C3'	6.54	111.33	106.10
26	BB	2793	C	C4'-C3'-C2'	-6.54	96.06	102.60
25	BA	43	C	C2-N3-C4	6.54	123.17	119.90
25	BA	62	C	C5-C4-N4	-6.54	115.62	120.20
26	BB	181	A	C5'-C4'-O4'	6.54	116.95	109.10
26	BB	187	G	C2-N3-C4	-6.54	108.63	111.90
26	BB	284	U	N3-C4-C5	-6.54	110.68	114.60
26	BB	434	U	C5-C4-O4	6.54	129.82	125.90
26	BB	922	C	C4-C5-C6	-6.54	114.13	117.40
26	BB	945	A	C4'-C3'-C2'	-6.54	96.06	102.60
26	BB	992	C	N3-C2-O2	-6.54	117.32	121.90
26	BB	2242	G	N1-C6-O6	-6.54	115.97	119.90
26	BB	2380	C	N3-C4-C5	6.54	124.52	121.90
26	BB	2543	G	C8-N9-C4	-6.54	103.78	106.40
1	AA	22	G	N3-C4-C5	-6.54	125.33	128.60
1	AA	1507	A	C8-N9-C4	-6.54	103.18	105.80
2	AB	72	U	N1-C1'-C2'	-6.54	104.81	112.00
26	BB	372	G	C5'-C4'-O4'	6.54	116.95	109.10
26	BB	1312	U	N1-C2-O2	6.54	127.38	122.80
26	BB	1454	C	C2-N3-C4	6.54	123.17	119.90
1	AA	156	C	N1-C2-O2	6.54	122.82	118.90
1	AA	313	A	C4'-C3'-C2'	-6.54	96.06	102.60
25	BA	34	A	C4'-C3'-C2'	-6.54	96.06	102.60
26	BB	479	A	C5-C6-N6	6.54	128.93	123.70
26	BB	1239	G	N3-C2-N2	-6.54	115.32	119.90
26	BB	1879	C	N3-C2-O2	-6.54	117.32	121.90
26	BB	2043	C	C2-N3-C4	6.54	123.17	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2427	C	P-O5'-C5'	6.54	131.36	120.90
1	AA	1225	A	N1-C6-N6	6.54	122.52	118.60
2	AB	14	A	C4-C5-C6	-6.54	113.73	117.00
26	BB	901	C	C4-C5-C6	6.54	120.67	117.40
26	BB	1324	G	C5-N7-C8	-6.54	101.03	104.30
26	BB	1399	C	C1'-O4'-C4'	6.54	115.13	109.90
26	BB	1843	C	C6-N1-C2	-6.54	117.69	120.30
1	AA	45	G	N3-C4-C5	-6.54	125.33	128.60
1	AA	609	A	N9-C4-C5	6.54	108.41	105.80
1	AA	628	G	C6-C5-N7	6.54	134.32	130.40
1	AA	1371	G	C5-C6-O6	-6.54	124.68	128.60
26	BB	39	G	C4-C5-N7	-6.54	108.19	110.80
26	BB	154	U	C5-C4-O4	-6.54	121.98	125.90
26	BB	597	G	N1-C2-N2	6.54	122.08	116.20
26	BB	635	C	C5-C4-N4	-6.54	115.62	120.20
26	BB	914	G	C5-C6-O6	-6.54	124.68	128.60
26	BB	1071	G	C5-C6-N1	6.54	114.77	111.50
26	BB	1168	G	C5'-C4'-O4'	6.54	116.94	109.10
26	BB	1813	G	C4-C5-N7	-6.54	108.19	110.80
1	AA	422	C	C6-N1-C2	-6.53	117.69	120.30
1	AA	679	C	N3-C4-N4	6.53	122.57	118.00
1	AA	809	G	C8-N9-C4	-6.53	103.79	106.40
26	BB	237	C	C5-C6-N1	-6.53	117.73	121.00
26	BB	705	A	N9-C4-C5	6.53	108.41	105.80
26	BB	1464	G	C8-N9-C4	-6.53	103.79	106.40
26	BB	1496	A	C8-N9-C4	-6.53	103.19	105.80
26	BB	1786	A	N1-C6-N6	-6.53	114.68	118.60
26	BB	1972	G	N7-C8-N9	6.53	116.37	113.10
26	BB	2325	G	C6-N1-C2	-6.53	121.18	125.10
26	BB	2407	A	C5-C6-N6	6.53	128.93	123.70
1	AA	159	G	C4-C5-C6	6.53	122.72	118.80
1	AA	786	G	C6-C5-N7	-6.53	126.48	130.40
26	BB	146	A	C4-C5-C6	-6.53	113.73	117.00
26	BB	1452	G	C4'-C3'-C2'	-6.53	96.07	102.60
26	BB	1989	G	O4'-C1'-N9	6.53	113.42	108.20
26	BB	2089	C	N3-C4-C5	6.53	124.51	121.90
26	BB	2189	U	N3-C4-O4	6.53	123.97	119.40
26	BB	2823	A	P-O3'-C3'	6.53	127.54	119.70
26	BB	2898	U	N3-C2-O2	-6.53	117.63	122.20
1	AA	405	U	C4'-C3'-C2'	-6.53	96.07	102.60
1	AA	698	G	C5-C6-N1	-6.53	108.23	111.50
1	AA	872	A	O4'-C1'-N9	6.53	113.42	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1022	A	P-O5'-C5'	6.53	131.35	120.90
1	AA	1291	U	O4'-C1'-N1	6.53	113.42	108.20
1	AA	1405	G	C5-N7-C8	-6.53	101.03	104.30
25	BA	21	G	C4-C5-C6	6.53	122.72	118.80
25	BA	94	A	N1-C2-N3	-6.53	126.03	129.30
25	BA	108	A	C5-N7-C8	-6.53	100.63	103.90
26	BB	328	U	N3-C2-O2	-6.53	117.63	122.20
26	BB	980	A	P-O3'-C3'	6.53	127.54	119.70
26	BB	1235	G	C6-N1-C2	-6.53	121.18	125.10
26	BB	1328	A	C4-C5-C6	-6.53	113.73	117.00
26	BB	1345	C	C6-N1-C2	-6.53	117.69	120.30
26	BB	1803	A	C8-N9-C4	-6.53	103.19	105.80
26	BB	2256	G	C4-C5-N7	6.53	113.41	110.80
26	BB	2641	G	N3-C4-C5	-6.53	125.33	128.60
41	BQ	30	ARG	NE-CZ-NH2	6.53	123.56	120.30
1	AA	165	G	N9-C4-C5	6.53	108.01	105.40
1	AA	675	A	C4-C5-N7	6.53	113.97	110.70
10	AJ	122	GLU	OE1-CD-OE2	6.53	131.13	123.30
1	AA	106	C	C5-C4-N4	-6.53	115.63	120.20
1	AA	156	C	C3'-C2'-C1'	-6.53	96.28	101.50
1	AA	407	U	C4-C5-C6	6.53	123.62	119.70
1	AA	650	G	O4'-C4'-C3'	6.53	111.32	106.10
1	AA	813	U	C2-N3-C4	-6.53	123.08	127.00
1	AA	1003	G	C2-N3-C4	6.53	115.16	111.90
1	AA	1261	A	N9-C4-C5	-6.53	103.19	105.80
26	BB	496	G	C3'-C2'-C1'	6.53	106.72	101.50
26	BB	551	G	C6-C5-N7	6.53	134.32	130.40
26	BB	926	G	C5-N7-C8	6.53	107.56	104.30
26	BB	1932	A	C5-C6-N1	6.53	120.96	117.70
26	BB	2088	A	C6-N1-C2	6.53	122.52	118.60
26	BB	2694	G	N3-C4-C5	6.53	131.86	128.60
26	BB	2767	C	O4'-C1'-N1	6.53	113.42	108.20
1	AA	91	U	N1-C2-O2	6.53	127.37	122.80
1	AA	179	A	N7-C8-N9	6.53	117.06	113.80
1	AA	374	A	C4-C5-C6	-6.53	113.74	117.00
1	AA	513	C	C5-C6-N1	6.53	124.26	121.00
1	AA	523	A	C4'-C3'-C2'	-6.53	96.07	102.60
1	AA	1224	U	C5-C6-N1	-6.53	119.44	122.70
1	AA	1355	G	N1-C2-N2	6.53	122.07	116.20
26	BB	797	G	C5-C6-O6	-6.53	124.69	128.60
26	BB	819	A	N1-C2-N3	-6.53	126.04	129.30
26	BB	1149	G	C5'-C4'-O4'	6.53	116.93	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1876	A	C4-C5-C6	6.53	120.26	117.00
26	BB	2218	G	C4-N9-C1'	-6.53	118.02	126.50
26	BB	2425	A	C2-N3-C4	6.53	113.86	110.60
26	BB	2493	U	C5'-C4'-O4'	6.53	116.93	109.10
1	AA	71	A	C2-N3-C4	6.52	113.86	110.60
1	AA	1359	C	C4'-C3'-C2'	-6.52	96.08	102.60
26	BB	250	G	C5-C6-N1	-6.52	108.24	111.50
26	BB	1179	G	C5-N7-C8	-6.52	101.04	104.30
26	BB	1238	G	N1-C2-N3	-6.52	119.99	123.90
26	BB	1314	C	C5'-C4'-O4'	6.52	116.93	109.10
26	BB	1568	G	C4'-C3'-C2'	-6.52	96.08	102.60
44	BT	23	GLU	OE1-CD-OE2	6.52	131.13	123.30
1	AA	6	G	O4'-C4'-C3'	6.52	111.32	106.10
1	AA	482	A	N9-C4-C5	6.52	108.41	105.80
3	AC	45	G	C8-N9-C4	-6.52	103.79	106.40
3	AC	55	A	N9-C4-C5	6.52	108.41	105.80
4	AD	18	U	N1-C2-N3	6.52	118.81	114.90
4	AD	50	G	C8-N9-C4	-6.52	103.79	106.40
26	BB	615	U	C6-N1-C2	-6.52	117.09	121.00
26	BB	980	A	C5-C6-N1	-6.52	114.44	117.70
26	BB	1171	G	C4-C5-N7	-6.52	108.19	110.80
26	BB	1256	G	P-O3'-C3'	6.52	127.53	119.70
26	BB	1510	G	O4'-C1'-N9	-6.52	102.98	108.20
26	BB	1715	G	C1'-O4'-C4'	-6.52	104.68	109.90
26	BB	1838	C	N3-C4-C5	-6.52	119.29	121.90
26	BB	2017	U	O4'-C1'-N1	-6.52	102.98	108.20
26	BB	2057	G	N3-C2-N2	6.52	124.47	119.90
26	BB	2293	G	C6-N1-C2	-6.52	121.19	125.10
26	BB	2494	G	C8-N9-C4	-6.52	103.79	106.40
1	AA	920	U	C5-C4-O4	-6.52	121.99	125.90
1	AA	1542	A	N1-C6-N6	6.52	122.51	118.60
26	BB	156	A	C8-N9-C4	-6.52	103.19	105.80
26	BB	372	G	C6-N1-C2	-6.52	121.19	125.10
26	BB	585	G	N7-C8-N9	6.52	116.36	113.10
26	BB	1446	C	C3'-C2'-C1'	-6.52	96.28	101.50
26	BB	1839	G	C4-C5-C6	-6.52	114.89	118.80
26	BB	2100	G	C5-C6-N1	6.52	114.76	111.50
1	AA	355	C	C4'-C3'-C2'	-6.52	96.08	102.60
1	AA	381	C	C6-N1-C2	-6.52	117.69	120.30
1	AA	1528	U	C4-C5-C6	6.52	123.61	119.70
2	AB	56	C	N1-C2-O2	6.52	122.81	118.90
25	BA	51	G	C8-N9-C4	-6.52	103.79	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	224	U	C4-C5-C6	6.52	123.61	119.70
26	BB	531	C	N1-C2-N3	-6.52	114.64	119.20
26	BB	1410	G	C5'-C4'-O4'	6.52	116.92	109.10
26	BB	1872	A	C8-N9-C4	-6.52	103.19	105.80
26	BB	1952	A	C3'-C2'-C1'	-6.52	96.28	101.50
33	BI	86	ASP	CB-CG-OD2	-6.52	112.43	118.30
39	BO	44	ARG	NE-CZ-NH2	6.52	123.56	120.30
1	AA	135	C	C2-N3-C4	6.52	123.16	119.90
1	AA	572	A	C3'-C2'-C1'	6.52	106.71	101.50
1	AA	822	U	N3-C4-O4	6.52	123.96	119.40
1	AA	1049	U	C3'-C2'-C1'	-6.52	96.29	101.50
18	AR	46	LYS	N-CA-CB	-6.52	98.87	110.60
25	BA	86	G	C4-C5-N7	-6.52	108.19	110.80
26	BB	6	A	C6-C5-N7	6.52	136.86	132.30
26	BB	475	C	C4-C5-C6	6.52	120.66	117.40
26	BB	783	A	C8-N9-C4	-6.52	103.19	105.80
26	BB	1792	G	C6-C5-N7	6.52	134.31	130.40
26	BB	2020	A	C5-N7-C8	6.52	107.16	103.90
26	BB	2060	A	N7-C8-N9	6.52	117.06	113.80
26	BB	2363	G	C5'-C4'-O4'	6.52	116.92	109.10
26	BB	2574	G	N1-C6-O6	6.52	123.81	119.90
26	BB	2706	A	N1-C6-N6	6.52	122.51	118.60
32	BH	83	THR	CA-CB-CG2	6.52	121.52	112.40
1	AA	1459	G	C4-C5-N7	-6.52	108.19	110.80
25	BA	90	C	C1'-O4'-C4'	6.52	115.11	109.90
26	BB	596	U	N3-C2-O2	6.52	126.76	122.20
26	BB	984	A	O4'-C1'-C2'	6.52	113.46	107.60
26	BB	1860	G	C5-N7-C8	6.52	107.56	104.30
26	BB	2341	G	C5'-C4'-O4'	6.52	116.92	109.10
1	AA	3	A	O4'-C1'-N9	6.51	113.41	108.20
1	AA	484	G	N9-C1'-C2'	-6.51	104.83	112.00
2	AB	10	G	O4'-C1'-N9	6.51	113.41	108.20
2	AB	48	U	C2-N3-C4	-6.51	123.09	127.00
26	BB	434	U	P-O3'-C3'	6.51	127.52	119.70
26	BB	637	A	C6-N1-C2	-6.51	114.69	118.60
26	BB	869	G	N7-C8-N9	6.51	116.36	113.10
26	BB	992	C	C1'-O4'-C4'	-6.51	104.69	109.90
26	BB	1978	A	C2-N3-C4	6.51	113.86	110.60
26	BB	2805	C	C1'-O4'-C4'	6.51	115.11	109.90
1	AA	633	G	C4'-C3'-C2'	-6.51	96.09	102.60
1	AA	650	G	C3'-C2'-C1'	-6.51	96.29	101.50
1	AA	861	G	N9-C4-C5	6.51	108.00	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1051	G	N9-C4-C5	6.51	108.00	105.40
26	BB	1482	G	C5-N7-C8	-6.51	101.04	104.30
26	BB	2464	G	C3'-C2'-C1'	6.51	106.71	101.50
1	AA	97	G	C4-C5-N7	-6.51	108.19	110.80
1	AA	129	A	C6-N1-C2	-6.51	114.69	118.60
1	AA	413	G	N1-C2-N3	-6.51	119.99	123.90
1	AA	598	U	C5-C4-O4	-6.51	121.99	125.90
1	AA	1305	G	C6-N1-C2	-6.51	121.19	125.10
1	AA	1526	G	N1-C6-O6	-6.51	115.99	119.90
2	AB	24	G	C4-C5-N7	6.51	113.41	110.80
26	BB	788	A	C1'-O4'-C4'	-6.51	104.69	109.90
26	BB	1068	G	C5-C6-N1	6.51	114.76	111.50
26	BB	1687	G	C5-C6-N1	6.51	114.76	111.50
26	BB	1845	G	O4'-C1'-N9	6.51	113.41	108.20
26	BB	2003	A	N9-C1'-C2'	-6.51	104.84	112.00
26	BB	2228	G	C5'-C4'-O4'	6.51	116.91	109.10
26	BB	2257	U	O4'-C4'-C3'	-6.51	97.49	104.00
26	BB	2582	G	N1-C2-N3	-6.51	119.99	123.90
34	BJ	115	GLU	OE1-CD-OE2	6.51	131.11	123.30
1	AA	240	G	N3-C2-N2	-6.51	115.34	119.90
1	AA	523	A	O4'-C4'-C3'	6.51	111.31	106.10
1	AA	716	A	N3-C4-C5	6.51	131.36	126.80
1	AA	821	G	C5'-C4'-O4'	6.51	116.91	109.10
1	AA	831	A	C3'-C2'-C1'	6.51	106.71	101.50
1	AA	1090	U	N3-C2-O2	6.51	126.76	122.20
1	AA	1532	U	C4-C5-C6	6.51	123.61	119.70
4	AD	60	A	C4-C5-N7	-6.51	107.44	110.70
26	BB	221	A	C1'-O4'-C4'	6.51	115.11	109.90
26	BB	1103	A	N1-C6-N6	6.51	122.50	118.60
26	BB	1746	A	N3-C4-N9	-6.51	122.19	127.40
26	BB	2005	A	C6-C5-N7	-6.51	127.74	132.30
26	BB	2700	A	N9-C4-C5	6.51	108.40	105.80
26	BB	2737	G	C8-N9-C4	-6.51	103.80	106.40
33	BI	75	LEU	CB-CG-CD2	6.51	122.07	111.00
1	AA	30	U	N3-C4-O4	6.51	123.96	119.40
1	AA	529	G	C5'-C4'-O4'	6.51	116.91	109.10
1	AA	1432	G	N7-C8-N9	6.51	116.35	113.10
6	AF	129	PHE	CB-CG-CD1	-6.51	116.24	120.80
25	BA	34	A	C1'-O4'-C4'	-6.51	104.69	109.90
26	BB	326	G	N3-C4-C5	6.51	131.85	128.60
26	BB	743	A	C2-N3-C4	-6.51	107.35	110.60
26	BB	1015	U	N1-C2-N3	6.51	118.81	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1036	G	N3-C2-N2	-6.51	115.34	119.90
26	BB	1455	G	O4'-C1'-N9	6.51	113.41	108.20
26	BB	1912	A	O4'-C1'-N9	6.51	113.41	108.20
1	AA	44	A	C5-N7-C8	6.51	107.15	103.90
1	AA	504	C	C4-C5-C6	-6.51	114.15	117.40
1	AA	564	C	C4-C5-C6	6.51	120.65	117.40
1	AA	1537	U	C4-C5-C6	-6.51	115.80	119.70
2	AB	71	C	O4'-C1'-N1	6.51	113.41	108.20
6	AF	135	ARG	NE-CZ-NH1	6.51	123.55	120.30
26	BB	6	A	N1-C2-N3	-6.51	126.05	129.30
26	BB	984	A	O4'-C4'-C3'	6.51	111.31	106.10
26	BB	1090	A	N9-C1'-C2'	-6.51	104.84	112.00
26	BB	1498	C	N3-C4-N4	-6.51	113.45	118.00
26	BB	2160	C	C2-N3-C4	-6.51	116.65	119.90
26	BB	2546	U	C4-C5-C6	6.51	123.60	119.70
26	BB	2823	A	C6-N1-C2	-6.51	114.70	118.60
1	AA	335	C	N1-C1'-C2'	-6.50	104.84	112.00
1	AA	766	A	N7-C8-N9	-6.50	110.55	113.80
26	BB	43	G	N1-C2-N2	-6.50	110.34	116.20
26	BB	101	A	C5-C6-N1	-6.50	114.45	117.70
26	BB	798	G	C5-C6-O6	-6.50	124.70	128.60
26	BB	1128	G	O4'-C4'-C3'	6.50	111.30	106.10
26	BB	2359	C	N1-C2-N3	-6.50	114.65	119.20
30	BF	33	VAL	CA-CB-CG1	6.50	120.66	110.90
1	AA	573	A	N1-C6-N6	6.50	122.50	118.60
1	AA	805	C	C4'-C3'-C2'	-6.50	96.10	102.60
1	AA	1513	A	C5'-C4'-O4'	6.50	116.90	109.10
26	BB	351	C	C5-C6-N1	-6.50	117.75	121.00
26	BB	539	G	C5'-C4'-O4'	6.50	116.90	109.10
26	BB	1057	A	C5'-C4'-C3'	-6.50	105.59	116.00
26	BB	1212	G	C8-N9-C4	-6.50	103.80	106.40
26	BB	1261	C	C5-C4-N4	-6.50	115.65	120.20
26	BB	1294	U	N1-C2-O2	6.50	127.35	122.80
26	BB	1563	U	N3-C4-C5	6.50	118.50	114.60
26	BB	2115	G	C2-N3-C4	-6.50	108.65	111.90
26	BB	2619	C	C6-N1-C2	6.50	122.90	120.30
26	BB	2694	G	C4-C5-N7	6.50	113.40	110.80
1	AA	23	C	N3-C4-N4	6.50	122.55	118.00
1	AA	27	G	N1-C2-N3	-6.50	120.00	123.90
1	AA	959	A	C6-N1-C2	-6.50	114.70	118.60
3	AC	21	U	C2-N3-C4	-6.50	123.10	127.00
3	AC	37	G	C4-C5-N7	6.50	113.40	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	35	C	C6-N1-C2	-6.50	117.70	120.30
25	BA	61	G	O4'-C1'-N9	6.50	113.40	108.20
26	BB	1098	A	N7-C8-N9	6.50	117.05	113.80
26	BB	1718	G	C3'-C2'-C1'	-6.50	96.30	101.50
3	AC	56	G	C5-C6-O6	6.50	132.50	128.60
4	AD	28	U	C4'-C3'-C2'	-6.50	96.10	102.60
25	BA	47	C	C5-C6-N1	6.50	124.25	121.00
26	BB	725	G	C6-C5-N7	-6.50	126.50	130.40
26	BB	1737	G	C8-N9-C4	-6.50	103.80	106.40
1	AA	550	G	C8-N9-C1'	6.50	135.45	127.00
1	AA	1221	G	C5-C6-N1	6.50	114.75	111.50
1	AA	1335	U	O4'-C1'-C2'	-6.50	99.30	105.80
26	BB	695	G	O4'-C4'-C3'	6.50	111.30	106.10
26	BB	805	G	C6-C5-N7	6.50	134.30	130.40
26	BB	972	A	C5-N7-C8	6.50	107.15	103.90
26	BB	1203	U	C4-C5-C6	6.50	123.60	119.70
26	BB	2007	U	C5-C6-N1	-6.50	119.45	122.70
26	BB	2509	G	C1'-O4'-C4'	6.50	115.10	109.90
26	BB	2609	U	C4-C5-C6	-6.50	115.80	119.70
26	BB	2788	C	C3'-C2'-C1'	6.50	106.70	101.50
30	BF	88	ARG	NH1-CZ-NH2	6.50	126.55	119.40
54	B3	12	ARG	NE-CZ-NH2	-6.50	117.05	120.30
1	AA	55	A	C2-N3-C4	6.50	113.85	110.60
1	AA	915	A	C8-N9-C4	-6.50	103.20	105.80
1	AA	1101	A	C4-C5-N7	-6.50	107.45	110.70
1	AA	1482	G	C4-C5-C6	6.50	122.70	118.80
2	AB	39	A	N7-C8-N9	6.50	117.05	113.80
10	AJ	77	ARG	NE-CZ-NH1	-6.50	117.05	120.30
26	BB	19	A	N7-C8-N9	6.50	117.05	113.80
26	BB	1113	U	C5'-C4'-O4'	6.50	116.89	109.10
26	BB	1430	G	O4'-C1'-N9	6.50	113.40	108.20
26	BB	2632	A	N9-C4-C5	6.50	108.40	105.80
26	BB	2874	C	N3-C2-O2	-6.50	117.35	121.90
28	BD	51	ARG	NE-CZ-NH1	6.50	123.55	120.30
1	AA	1	A	C1'-O4'-C4'	-6.50	104.70	109.90
1	AA	399	G	N3-C4-N9	6.50	129.90	126.00
1	AA	698	G	N3-C4-C5	-6.50	125.35	128.60
26	BB	1928	A	C4-C5-C6	-6.50	113.75	117.00
26	BB	2135	A	C2-N3-C4	6.50	113.85	110.60
26	BB	2342	C	N3-C4-N4	6.50	122.55	118.00
26	BB	2370	G	C5-C6-O6	-6.50	124.70	128.60
26	BB	2673	G	C5'-C4'-O4'	6.50	116.89	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	79	G	N3-C4-C5	-6.49	125.35	128.60
1	AA	214	C	N3-C4-N4	6.49	122.55	118.00
1	AA	448	A	C4'-C3'-C2'	-6.49	96.11	102.60
1	AA	1293	C	C5-C6-N1	-6.49	117.75	121.00
3	AC	30	U	C1'-O4'-C4'	-6.49	104.71	109.90
3	AC	59	A	N9-C4-C5	6.49	108.40	105.80
26	BB	21	A	C5-C6-N6	-6.49	118.50	123.70
26	BB	120	U	C5-C4-O4	-6.49	122.00	125.90
26	BB	239	C	O4'-C1'-N1	6.49	113.39	108.20
26	BB	244	A	C4-C5-C6	-6.49	113.75	117.00
26	BB	1240	U	C6-N1-C2	-6.49	117.10	121.00
26	BB	1402	U	N3-C4-C5	-6.49	110.70	114.60
26	BB	1826	G	C4-C5-N7	-6.49	108.20	110.80
26	BB	1973	G	C3'-C2'-C1'	-6.49	96.31	101.50
26	BB	2276	G	C2-N3-C4	6.49	115.15	111.90
26	BB	289	G	N1-C2-N2	6.49	122.04	116.20
26	BB	762	U	C3'-C2'-C1'	6.49	106.69	101.50
26	BB	862	G	N7-C8-N9	6.49	116.35	113.10
26	BB	1815	A	O4'-C1'-N9	6.49	113.39	108.20
26	BB	1832	C	C3'-C2'-C1'	-6.49	96.31	101.50
1	AA	494	G	N3-C4-N9	6.49	129.90	126.00
1	AA	1138	G	O4'-C1'-N9	6.49	113.39	108.20
1	AA	1168	U	C2-N1-C1'	6.49	125.49	117.70
1	AA	1502	A	N1-C6-N6	-6.49	114.71	118.60
26	BB	781	A	O4'-C4'-C3'	-6.49	97.51	104.00
26	BB	1003	G	C8-N9-C4	-6.49	103.80	106.40
26	BB	1436	G	C5-C6-N1	6.49	114.75	111.50
26	BB	1532	A	C6-N1-C2	6.49	122.49	118.60
1	AA	1092	A	C2-N3-C4	-6.49	107.36	110.60
1	AA	1127	G	C5-C6-O6	-6.49	124.71	128.60
1	AA	1521	C	N3-C4-N4	6.49	122.54	118.00
26	BB	1266	G	N3-C4-N9	-6.49	122.11	126.00
26	BB	1885	A	P-O3'-C3'	6.49	127.49	119.70
36	BL	75	TYR	CD1-CE1-CZ	6.49	125.64	119.80
41	BQ	105	ALA	N-CA-CB	-6.49	101.02	110.10
1	AA	96	U	N1-C1'-C2'	-6.49	104.86	112.00
1	AA	153	C	C5-C6-N1	-6.49	117.76	121.00
1	AA	1108	G	C5-C6-N1	6.49	114.74	111.50
1	AA	1377	A	C4-C5-C6	-6.49	113.76	117.00
4	AD	44	A	C4-C5-C6	-6.49	113.76	117.00
1	AA	239	U	N1-C2-O2	6.49	127.34	122.80
1	AA	810	C	C6-N1-C2	-6.49	117.71	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	AX	1	PRO	CA-N-CD	-6.49	102.42	111.50
26	BB	947	A	C5'-C4'-O4'	6.49	116.88	109.10
26	BB	1163	G	O4'-C1'-N9	6.49	113.39	108.20
26	BB	1259	G	N3-C4-C5	-6.49	125.36	128.60
26	BB	1928	A	N9-C1'-C2'	-6.49	104.87	112.00
26	BB	2877	G	N1-C2-N2	6.49	122.04	116.20
1	AA	111	G	N1-C6-O6	-6.48	116.01	119.90
1	AA	338	A	C8-N9-C4	-6.48	103.21	105.80
1	AA	903	G	N3-C2-N2	6.48	124.44	119.90
1	AA	1047	G	C4-C5-N7	-6.48	108.21	110.80
26	BB	1507	C	C1'-O4'-C4'	-6.48	104.71	109.90
26	BB	2456	C	C1'-O4'-C4'	-6.48	104.71	109.90
1	AA	1110	A	N7-C8-N9	6.48	117.04	113.80
24	AX	61	ARG	NE-CZ-NH2	-6.48	117.06	120.30
26	BB	80	G	C5-N7-C8	-6.48	101.06	104.30
26	BB	440	C	N3-C2-O2	-6.48	117.36	121.90
26	BB	868	U	C4-C5-C6	-6.48	115.81	119.70
26	BB	1334	G	C4'-C3'-C2'	-6.48	96.12	102.60
26	BB	1417	C	N1-C1'-C2'	-6.48	104.87	112.00
26	BB	1641	A	N9-C4-C5	6.48	108.39	105.80
26	BB	1661	G	N3-C4-C5	-6.48	125.36	128.60
1	AA	505	G	C8-N9-C4	-6.48	103.81	106.40
1	AA	507	C	C2-N3-C4	6.48	123.14	119.90
1	AA	831	A	N9-C4-C5	6.48	108.39	105.80
1	AA	931	C	C5'-C4'-C3'	-6.48	105.63	116.00
1	AA	993	G	C4-N9-C1'	6.48	134.93	126.50
1	AA	1451	U	C5'-C4'-O4'	6.48	116.88	109.10
1	AA	1487	G	C5-C6-O6	-6.48	124.71	128.60
26	BB	149	A	N1-C6-N6	6.48	122.49	118.60
26	BB	275	C	N1-C2-N3	-6.48	114.66	119.20
26	BB	1182	G	N1-C2-N3	-6.48	120.01	123.90
26	BB	1637	A	C5-C6-N1	6.48	120.94	117.70
26	BB	1796	U	N1-C2-N3	-6.48	111.01	114.90
26	BB	2323	G	C5-C6-N1	6.48	114.74	111.50
1	AA	98	A	C2-N3-C4	6.48	113.84	110.60
26	BB	255	A	C5-N7-C8	-6.48	100.66	103.90
26	BB	1162	G	C5-C6-N1	-6.48	108.26	111.50
26	BB	1826	G	C5-N7-C8	6.48	107.54	104.30
26	BB	2199	A	N1-C6-N6	6.48	122.49	118.60
26	BB	2653	U	C5'-C4'-O4'	-6.48	101.33	109.10
26	BB	2750	A	C5-C6-N6	-6.48	118.52	123.70
26	BB	2808	G	C6-C5-N7	-6.48	126.51	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	118	U	O4'-C4'-C3'	6.48	111.28	106.10
1	AA	276	G	P-O3'-C3'	6.48	127.47	119.70
1	AA	628	G	N1-C2-N2	-6.48	110.37	116.20
1	AA	844	G	C3'-C2'-C1'	6.48	106.68	101.50
1	AA	1208	C	N1-C2-O2	6.48	122.79	118.90
26	BB	700	G	N7-C8-N9	6.48	116.34	113.10
26	BB	837	C	N3-C2-O2	-6.48	117.37	121.90
26	BB	966	G	N1-C6-O6	-6.48	116.01	119.90
26	BB	1044	C	N1-C2-O2	6.48	122.79	118.90
26	BB	1144	A	P-O3'-C3'	6.48	127.47	119.70
26	BB	1650	A	C4-C5-N7	-6.48	107.46	110.70
26	BB	2393	U	N3-C4-C5	6.48	118.49	114.60
31	BG	143	ASP	CB-CG-OD1	-6.48	112.47	118.30
1	AA	462	G	C6-N1-C2	-6.48	121.22	125.10
1	AA	766	A	C5'-C4'-C3'	-6.48	105.64	116.00
25	BA	76	G	C4-C5-N7	6.48	113.39	110.80
26	BB	181	A	C8-N9-C4	6.48	108.39	105.80
26	BB	423	A	N7-C8-N9	6.48	117.04	113.80
1	AA	276	G	N7-C8-N9	6.47	116.34	113.10
25	BA	117	G	N3-C4-C5	-6.47	125.36	128.60
26	BB	296	U	N3-C4-O4	6.47	123.93	119.40
26	BB	556	A	C5'-C4'-O4'	6.47	116.87	109.10
26	BB	994	C	O3'-P-O5'	-6.47	91.70	104.00
26	BB	1089	A	C1'-O4'-C4'	6.47	115.08	109.90
26	BB	1902	C	N3-C2-O2	-6.47	117.37	121.90
26	BB	2063	C	N1-C2-O2	6.47	122.78	118.90
26	BB	2121	G	C3'-C2'-C1'	6.47	106.68	101.50
26	BB	2464	G	C6-C5-N7	-6.47	126.52	130.40
26	BB	2610	C	C6-N1-C2	-6.47	117.71	120.30
1	AA	75	G	C2-N3-C4	6.47	115.14	111.90
4	AD	47	A	O4'-C4'-C3'	6.47	111.28	106.10
26	BB	319	G	N9-C4-C5	6.47	107.99	105.40
26	BB	526	A	N1-C2-N3	-6.47	126.06	129.30
26	BB	637	A	C5-N7-C8	6.47	107.14	103.90
26	BB	991	C	N1-C1'-C2'	-6.47	104.88	112.00
26	BB	1593	A	N1-C6-N6	6.47	122.48	118.60
26	BB	1775	U	C5-C6-N1	-6.47	119.46	122.70
26	BB	2100	G	C5-N7-C8	-6.47	101.06	104.30
26	BB	2671	G	C4-C5-C6	6.47	122.68	118.80
26	BB	1033	U	C4-C5-C6	6.47	123.58	119.70
26	BB	1281	G	C2-N3-C4	6.47	115.14	111.90
26	BB	1364	G	N1-C6-O6	-6.47	116.02	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1632	A	C5-N7-C8	-6.47	100.66	103.90
1	AA	273	U	O4'-C1'-N1	6.47	113.38	108.20
1	AA	635	A	O4'-C1'-N9	6.47	113.38	108.20
1	AA	861	G	C6-N1-C2	-6.47	121.22	125.10
1	AA	1007	U	O4'-C1'-N1	6.47	113.38	108.20
1	AA	1229	A	O4'-C1'-N9	6.47	113.38	108.20
2	AB	27	C	N1-C2-N3	-6.47	114.67	119.20
25	BA	11	C	C5'-C4'-O4'	6.47	116.86	109.10
25	BA	76	G	C5-N7-C8	-6.47	101.06	104.30
26	BB	265	A	N7-C8-N9	6.47	117.03	113.80
26	BB	413	C	C4-C5-C6	-6.47	114.17	117.40
26	BB	580	U	O4'-C1'-N1	6.47	113.38	108.20
26	BB	737	C	O4'-C1'-N1	6.47	113.38	108.20
26	BB	1154	G	N3-C4-C5	-6.47	125.36	128.60
26	BB	2121	G	N7-C8-N9	6.47	116.33	113.10
1	AA	78	A	N9-C4-C5	6.47	108.39	105.80
1	AA	848	C	C5'-C4'-O4'	6.47	116.86	109.10
26	BB	613	A	C5-C6-N1	6.47	120.93	117.70
1	AA	11	G	C4-C5-C6	6.47	122.68	118.80
1	AA	58	C	N1-C2-N3	-6.47	114.67	119.20
26	BB	307	G	C8-N9-C4	-6.47	103.81	106.40
26	BB	624	C	N3-C4-C5	-6.47	119.31	121.90
26	BB	731	C	N1-C1'-C2'	-6.47	104.89	112.00
26	BB	1871	A	C5-N7-C8	-6.47	100.67	103.90
26	BB	2199	A	N3-C4-C5	-6.47	122.27	126.80
26	BB	2250	G	C2-N3-C4	6.47	115.13	111.90
26	BB	2277	G	C6-C5-N7	6.47	134.28	130.40
1	AA	434	U	N3-C2-O2	-6.46	117.67	122.20
26	BB	196	A	C6-N1-C2	6.46	122.48	118.60
26	BB	293	U	N1-C2-N3	6.46	118.78	114.90
26	BB	797	G	N3-C2-N2	-6.46	115.38	119.90
26	BB	856	G	O4'-C1'-N9	6.46	113.37	108.20
26	BB	859	G	O4'-C4'-C3'	6.46	111.27	106.10
26	BB	1029	A	N1-C2-N3	6.46	132.53	129.30
26	BB	1780	A	N1-C2-N3	6.46	132.53	129.30
26	BB	1991	U	N3-C2-O2	-6.46	117.67	122.20
25	BA	112	G	O4'-C1'-C2'	-6.46	99.34	105.80
26	BB	1180	U	N1-C2-N3	6.46	118.78	114.90
26	BB	1378	A	P-O3'-C3'	6.46	127.46	119.70
1	AA	417	G	C2-N3-C4	-6.46	108.67	111.90
1	AA	978	A	C1'-O4'-C4'	-6.46	104.73	109.90
1	AA	1161	C	C4-C5-C6	-6.46	114.17	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1542	A	N9-C4-C5	6.46	108.39	105.80
3	AC	49	U	C6-N1-C2	-6.46	117.12	121.00
26	BB	410	G	N1-C2-N3	6.46	127.78	123.90
26	BB	458	G	C3'-C2'-C1'	-6.46	96.33	101.50
26	BB	544	C	C2-N1-C1'	6.46	125.91	118.80
26	BB	715	A	C3'-C2'-C1'	6.46	106.67	101.50
26	BB	807	U	C6-N1-C2	6.46	124.88	121.00
26	BB	846	U	C2-N3-C4	-6.46	123.12	127.00
26	BB	1077	A	C4-C5-N7	-6.46	107.47	110.70
26	BB	1239	G	C4-C5-C6	6.46	122.68	118.80
26	BB	1245	G	C4-C5-N7	-6.46	108.22	110.80
26	BB	1327	A	C6-N1-C2	6.46	122.48	118.60
26	BB	1566	A	O5'-P-OP1	-6.46	99.88	105.70
26	BB	1777	U	N1-C2-N3	6.46	118.78	114.90
26	BB	1809	A	C4-C5-N7	-6.46	107.47	110.70
26	BB	1976	U	C3'-C2'-C1'	6.46	106.67	101.50
26	BB	2862	G	N3-C4-C5	-6.46	125.37	128.60
1	AA	696	A	C5-N7-C8	6.46	107.13	103.90
25	BA	80	U	C2-N3-C4	-6.46	123.12	127.00
26	BB	893	C	C4-C5-C6	6.46	120.63	117.40
26	BB	1698	A	O4'-C1'-N9	6.46	113.37	108.20
26	BB	2135	A	O4'-C1'-N9	6.46	113.37	108.20
26	BB	2488	G	N3-C2-N2	-6.46	115.38	119.90
26	BB	2749	A	C8-N9-C4	-6.46	103.22	105.80
1	AA	1368	A	C5-N7-C8	-6.46	100.67	103.90
26	BB	906	U	N3-C4-O4	6.46	123.92	119.40
26	BB	1459	G	P-O3'-C3'	6.46	127.45	119.70
26	BB	1554	U	C3'-C2'-C1'	-6.46	96.33	101.50
26	BB	1791	A	C6-N1-C2	6.46	122.47	118.60
26	BB	1818	U	C6-N1-C2	-6.46	117.12	121.00
26	BB	1901	A	C4'-C3'-C2'	-6.46	96.14	102.60
26	BB	2027	G	N3-C4-C5	-6.46	125.37	128.60
26	BB	2156	G	O4'-C1'-N9	6.46	113.37	108.20
26	BB	2299	U	C5-C4-O4	-6.46	122.03	125.90
1	AA	818	G	N3-C4-N9	6.46	129.87	126.00
1	AA	1157	A	C6-N1-C2	-6.46	114.73	118.60
1	AA	1360	A	C5'-C4'-O4'	6.46	116.85	109.10
26	BB	294	A	C5-C6-N1	-6.46	114.47	117.70
26	BB	734	A	N3-C4-C5	-6.46	122.28	126.80
26	BB	826	U	N3-C2-O2	-6.46	117.68	122.20
26	BB	1438	U	C2-N3-C4	6.46	130.87	127.00
26	BB	1487	U	N3-C2-O2	-6.46	117.68	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2545	G	O5'-P-OP2	-6.46	99.89	105.70
1	AA	1002	G	O4'-C1'-N9	6.46	113.36	108.20
26	BB	804	A	C4'-C3'-C2'	-6.46	96.14	102.60
26	BB	1596	A	N1-C6-N6	6.46	122.47	118.60
26	BB	2672	U	C6-N1-C2	-6.46	117.13	121.00
1	AA	295	C	C4-C5-C6	-6.45	114.17	117.40
1	AA	866	C	N1-C2-O2	6.45	122.77	118.90
1	AA	1382	C	N3-C4-N4	-6.45	113.48	118.00
26	BB	798	G	O4'-C1'-N9	6.45	113.36	108.20
26	BB	985	C	P-O5'-C5'	6.45	131.23	120.90
26	BB	1801	A	C3'-C2'-C1'	-6.45	96.34	101.50
26	BB	1815	A	C5-C6-N1	6.45	120.93	117.70
26	BB	1985	C	C5-C4-N4	6.45	124.72	120.20
26	BB	2327	A	C2-N3-C4	6.45	113.83	110.60
26	BB	2388	A	O4'-C4'-C3'	-6.45	97.55	104.00
45	BU	84	ARG	NE-CZ-NH2	6.45	123.53	120.30
1	AA	68	G	C5'-C4'-O4'	6.45	116.84	109.10
1	AA	182	A	C5-C6-N1	-6.45	114.47	117.70
22	AV	1	PRO	CA-N-CD	-6.45	102.47	111.50
26	BB	799	G	C5-C6-N1	6.45	114.73	111.50
26	BB	2415	G	C6-N1-C2	6.45	128.97	125.10
47	BW	35	VAL	CA-CB-CG1	-6.45	101.22	110.90
1	AA	336	A	C5-N7-C8	6.45	107.12	103.90
1	AA	373	A	C6-N1-C2	6.45	122.47	118.60
1	AA	521	G	C6-N1-C2	-6.45	121.23	125.10
1	AA	551	U	C6-N1-C2	-6.45	117.13	121.00
1	AA	719	C	C4'-C3'-C2'	6.45	109.05	102.60
1	AA	839	C	C5-C4-N4	-6.45	115.68	120.20
1	AA	929	G	C4'-C3'-C2'	-6.45	96.15	102.60
1	AA	1309	G	C5-C6-N1	6.45	114.72	111.50
1	AA	1511	G	C5-N7-C8	-6.45	101.08	104.30
12	AL	54	VAL	CA-CB-CG2	6.45	120.58	110.90
26	BB	45	G	N3-C4-C5	-6.45	125.38	128.60
26	BB	94	A	O4'-C1'-N9	6.45	113.36	108.20
26	BB	826	U	C3'-C2'-C1'	6.45	106.66	101.50
26	BB	1423	G	N7-C8-N9	6.45	116.33	113.10
26	BB	1502	A	O4'-C1'-N9	6.45	113.36	108.20
26	BB	1783	A	O4'-C1'-N9	6.45	113.36	108.20
26	BB	1805	A	C4-C5-N7	-6.45	107.47	110.70
26	BB	2074	U	N1-C1'-C2'	-6.45	104.91	112.00
1	AA	311	C	C6-N1-C2	6.45	122.88	120.30
1	AA	885	G	C8-N9-C4	-6.45	103.82	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1026	G	O4'-C1'-N9	6.45	113.36	108.20
1	AA	1029	U	P-O3'-C3'	6.45	127.44	119.70
26	BB	21	A	C2-N3-C4	6.45	113.82	110.60
26	BB	109	C	C3'-C2'-C1'	-6.45	96.34	101.50
26	BB	139	U	C2-N3-C4	-6.45	123.13	127.00
26	BB	1252	G	O4'-C1'-N9	6.45	113.36	108.20
26	BB	1381	G	C5-C6-N1	6.45	114.72	111.50
26	BB	1894	C	O4'-C1'-N1	6.45	113.36	108.20
26	BB	2033	A	N1-C6-N6	-6.45	114.73	118.60
30	BF	102	ARG	NE-CZ-NH2	6.45	123.53	120.30
1	AA	437	U	C4-C5-C6	6.45	123.57	119.70
1	AA	976	G	C4-C5-C6	6.45	122.67	118.80
1	AA	1048	G	C8-N9-C4	6.45	108.98	106.40
26	BB	1194	A	C2-N3-C4	6.45	113.82	110.60
26	BB	1774	C	O4'-C1'-N1	6.45	113.36	108.20
1	AA	411	A	C3'-C2'-C1'	6.45	106.66	101.50
1	AA	942	G	N3-C4-C5	-6.45	125.38	128.60
1	AA	1040	U	C2-N3-C4	-6.45	123.13	127.00
5	AE	49	PHE	CB-CG-CD2	-6.45	116.29	120.80
26	BB	493	G	C5'-C4'-O4'	6.45	116.83	109.10
26	BB	1597	A	C4-C5-C6	6.45	120.22	117.00
26	BB	2035	G	C6-N1-C2	-6.45	121.23	125.10
26	BB	2469	A	N9-C4-C5	6.45	108.38	105.80
26	BB	2510	C	O4'-C4'-C3'	6.45	111.26	106.10
26	BB	2845	U	C1'-O4'-C4'	6.45	115.06	109.90
1	AA	724	G	C3'-C2'-C1'	6.44	106.66	101.50
26	BB	57	C	O4'-C1'-N1	6.44	113.36	108.20
26	BB	150	U	C6-N1-C2	6.44	124.87	121.00
26	BB	166	U	N3-C4-C5	-6.44	110.73	114.60
26	BB	1572	A	O4'-C1'-N9	6.44	113.36	108.20
26	BB	32	C	C4-C5-C6	6.44	120.62	117.40
26	BB	59	U	C5'-C4'-C3'	-6.44	105.69	116.00
26	BB	967	U	O4'-C1'-N1	6.44	113.36	108.20
26	BB	1184	U	N1-C2-N3	6.44	118.77	114.90
26	BB	1471	G	C6-N1-C2	-6.44	121.23	125.10
26	BB	2448	A	N1-C6-N6	-6.44	114.73	118.60
26	BB	2545	G	N7-C8-N9	6.44	116.32	113.10
1	AA	259	G	N1-C2-N3	-6.44	120.04	123.90
1	AA	412	A	C1'-O4'-C4'	-6.44	104.75	109.90
1	AA	1417	G	N3-C4-N9	6.44	129.87	126.00
1	AA	1452	C	O4'-C1'-N1	6.44	113.35	108.20
2	AB	44	G	N7-C8-N9	6.44	116.32	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	80	G	C8-N9-C4	-6.44	103.82	106.40
26	BB	1236	G	C5'-C4'-O4'	6.44	116.83	109.10
26	BB	1855	U	O4'-C1'-N1	6.44	113.35	108.20
26	BB	2272	U	N1-C2-O2	-6.44	118.29	122.80
26	BB	2514	U	N1-C2-N3	6.44	118.77	114.90
26	BB	2758	A	N1-C6-N6	-6.44	114.74	118.60
1	AA	200	G	C4-C5-N7	-6.44	108.22	110.80
1	AA	1178	G	C4-C5-C6	6.44	122.66	118.80
26	BB	20	C	C6-N1-C2	6.44	122.88	120.30
26	BB	632	A	C1'-O4'-C4'	-6.44	104.75	109.90
26	BB	2594	C	C1'-O4'-C4'	-6.44	104.75	109.90
1	AA	406	G	C6-N1-C2	-6.44	121.24	125.10
1	AA	751	U	O5'-P-OP1	-6.44	99.91	105.70
1	AA	875	U	C4-C5-C6	6.44	123.56	119.70
1	AA	1016	A	C6-N1-C2	-6.44	114.74	118.60
1	AA	1343	G	N9-C4-C5	6.44	107.97	105.40
26	BB	41	C	N3-C4-C5	6.44	124.47	121.90
26	BB	71	A	C2-N3-C4	6.44	113.82	110.60
26	BB	98	G	C5-N7-C8	6.44	107.52	104.30
26	BB	309	A	C8-N9-C4	-6.44	103.22	105.80
26	BB	351	C	N3-C4-N4	6.44	122.51	118.00
26	BB	445	C	C5'-C4'-O4'	6.44	116.83	109.10
26	BB	491	G	N9-C4-C5	6.44	107.97	105.40
26	BB	1949	G	O4'-C1'-C2'	6.44	113.39	107.60
26	BB	2411	A	C5-C6-N6	-6.44	118.55	123.70
28	BD	1	ALA	CB-CA-C	6.44	119.76	110.10
1	AA	454	G	C2-N3-C4	6.44	115.12	111.90
26	BB	204	A	P-O3'-C3'	6.44	127.42	119.70
1	AA	271	C	C3'-C2'-C1'	6.43	106.65	101.50
1	AA	309	A	N9-C4-C5	-6.43	103.23	105.80
1	AA	986	U	N1-C2-N3	6.43	118.76	114.90
26	BB	721	A	C2-N3-C4	-6.43	107.38	110.60
26	BB	801	G	C6-C5-N7	6.43	134.26	130.40
26	BB	1314	C	C6-N1-C2	-6.43	117.73	120.30
26	BB	2522	U	C1'-O4'-C4'	-6.43	104.75	109.90
1	AA	275	G	C4-C5-N7	-6.43	108.23	110.80
1	AA	1149	C	C2-N3-C4	-6.43	116.68	119.90
25	BA	18	G	C4'-C3'-C2'	-6.43	96.17	102.60
26	BB	246	C	C5'-C4'-O4'	6.43	116.82	109.10
26	BB	1015	U	N3-C2-O2	-6.43	117.70	122.20
26	BB	1449	G	O4'-C1'-N9	6.43	113.34	108.20
26	BB	1658	C	C5-C4-N4	6.43	124.70	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1715	G	N3-C4-C5	-6.43	125.38	128.60
26	BB	2246	G	N9-C4-C5	-6.43	102.83	105.40
26	BB	2865	U	C4'-C3'-C2'	-6.43	96.17	102.60
27	BC	102	ASP	CB-CG-OD2	-6.43	112.51	118.30
30	BF	35	TYR	CG-CD1-CE1	-6.43	116.15	121.30
1	AA	694	A	C3'-C2'-C1'	6.43	106.64	101.50
2	AB	25	C	C2-N3-C4	6.43	123.11	119.90
25	BA	100	G	C8-N9-C4	-6.43	103.83	106.40
26	BB	864	G	N3-C2-N2	-6.43	115.40	119.90
26	BB	1906	G	C2'-C3'-O3'	6.43	123.99	113.70
26	BB	2214	C	O4'-C1'-N1	6.43	113.34	108.20
1	AA	1273	C	C1'-O4'-C4'	-6.43	104.76	109.90
25	BA	57	A	N1-C2-N3	-6.43	126.08	129.30
26	BB	78	U	C5'-C4'-O4'	6.43	116.82	109.10
26	BB	800	A	C4-C5-N7	6.43	113.92	110.70
26	BB	1101	U	C5-C6-N1	-6.43	119.48	122.70
26	BB	2402	U	N3-C4-C5	6.43	118.46	114.60
26	BB	2478	A	C8-N9-C4	6.43	108.37	105.80
26	BB	2751	G	C1'-O4'-C4'	-6.43	104.76	109.90
26	BB	628	G	C5-C6-N1	6.43	114.71	111.50
26	BB	654	A	P-O3'-C3'	6.43	127.41	119.70
26	BB	2695	U	C2-N3-C4	-6.43	123.14	127.00
1	AA	98	A	C4-C5-C6	-6.43	113.79	117.00
1	AA	119	A	P-O3'-C3'	6.43	127.41	119.70
1	AA	920	U	N3-C4-C5	6.43	118.46	114.60
1	AA	1053	G	C5-N7-C8	-6.43	101.09	104.30
1	AA	1411	C	C5-C6-N1	6.43	124.21	121.00
1	AA	1418	A	C4-C5-N7	-6.43	107.49	110.70
4	AD	42	C	N1-C2-O2	6.43	122.76	118.90
26	BB	1229	C	N3-C4-N4	6.43	122.50	118.00
26	BB	1331	G	N9-C4-C5	6.43	107.97	105.40
26	BB	1663	G	N1-C6-O6	-6.43	116.04	119.90
26	BB	2167	U	N3-C2-O2	-6.43	117.70	122.20
26	BB	2586	U	C5-C4-O4	-6.43	122.05	125.90
26	BB	2725	A	C5-C6-N1	6.43	120.91	117.70
1	AA	792	A	N9-C4-C5	6.42	108.37	105.80
4	AD	45	A	C8-N9-C4	6.42	108.37	105.80
16	AP	2	ARG	NE-CZ-NH1	6.42	123.51	120.30
25	BA	60	C	O4'-C1'-N1	6.42	113.34	108.20
26	BB	9	G	C1'-O4'-C4'	-6.42	104.76	109.90
26	BB	761	A	N7-C8-N9	6.42	117.01	113.80
26	BB	947	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	2012	G	C1'-O4'-C4'	-6.42	104.76	109.90
26	BB	2604	U	C5-C6-N1	6.42	125.91	122.70
26	BB	2806	C	N3-C4-N4	-6.42	113.50	118.00
1	AA	120	A	C3'-C2'-C1'	6.42	106.64	101.50
1	AA	192	A	C8-N9-C4	-6.42	103.23	105.80
1	AA	360	G	N9-C4-C5	6.42	107.97	105.40
1	AA	1282	C	N1-C2-O2	6.42	122.75	118.90
2	AB	25	C	C3'-C2'-C1'	6.42	106.64	101.50
26	BB	33	C	N3-C4-C5	-6.42	119.33	121.90
26	BB	400	G	C5'-C4'-O4'	6.42	116.81	109.10
26	BB	1309	G	C4-C5-N7	6.42	113.37	110.80
27	BC	9	ARG	NH1-CZ-NH2	-6.42	112.33	119.40
1	AA	227	G	N1-C6-O6	-6.42	116.05	119.90
1	AA	1036	A	N7-C8-N9	6.42	117.01	113.80
1	AA	1142	G	C5-C6-N1	6.42	114.71	111.50
1	AA	1425	U	C4-C5-C6	6.42	123.55	119.70
1	AA	1508	A	N3-C4-C5	-6.42	122.31	126.80
4	AD	49	C	N1-C2-O2	6.42	122.75	118.90
26	BB	64	A	C4'-C3'-C2'	-6.42	96.18	102.60
26	BB	278	A	N1-C6-N6	6.42	122.45	118.60
26	BB	703	U	O4'-C1'-N1	6.42	113.34	108.20
26	BB	1359	A	N9-C1'-C2'	-6.42	104.94	112.00
26	BB	1845	G	C2-N3-C4	6.42	115.11	111.90
26	BB	2196	C	N1-C2-O2	6.42	122.75	118.90
26	BB	2490	G	N3-C4-C5	-6.42	125.39	128.60
26	BB	2630	G	C4'-C3'-C2'	-6.42	96.18	102.60
26	BB	2810	A	C4'-C3'-C2'	-6.42	96.18	102.60
1	AA	512	U	C5'-C4'-O4'	6.42	116.81	109.10
1	AA	1329	A	C4-C5-N7	-6.42	107.49	110.70
1	AA	1469	C	N3-C4-C5	6.42	124.47	121.90
21	AU	2	ARG	NE-CZ-NH1	6.42	123.51	120.30
26	BB	1048	A	C6-C5-N7	6.42	136.79	132.30
26	BB	1980	G	N3-C4-N9	6.42	129.85	126.00
26	BB	2307	G	C5-C6-N1	-6.42	108.29	111.50
29	BE	143	PRO	N-CA-CB	6.42	111.00	103.30
1	AA	139	A	N1-C2-N3	-6.42	126.09	129.30
1	AA	499	A	C5-C6-N6	6.42	128.83	123.70
1	AA	614	C	C2-N3-C4	-6.42	116.69	119.90
1	AA	724	G	C5-N7-C8	-6.42	101.09	104.30
1	AA	1057	G	N3-C4-C5	-6.42	125.39	128.60
1	AA	1085	U	N3-C4-C5	-6.42	110.75	114.60
1	AA	1094	G	O4'-C1'-N9	6.42	113.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	439	A	C8-N9-C4	-6.42	103.23	105.80
26	BB	575	A	N9-C1'-C2'	-6.42	104.94	112.00
26	BB	885	C	N3-C4-N4	6.42	122.49	118.00
26	BB	1036	G	C5-C6-N1	6.42	114.71	111.50
26	BB	1218	G	C8-N9-C4	-6.42	103.83	106.40
26	BB	1573	G	O4'-C1'-C2'	6.42	113.38	107.60
26	BB	2053	G	C5-N7-C8	6.42	107.51	104.30
26	BB	2213	U	N3-C4-C5	-6.42	110.75	114.60
1	AA	293	G	N7-C8-N9	6.42	116.31	113.10
1	AA	347	G	O4'-C4'-C3'	6.42	111.23	106.10
1	AA	364	A	N3-C4-C5	-6.42	122.31	126.80
1	AA	742	G	N7-C8-N9	6.42	116.31	113.10
1	AA	778	G	C4'-C3'-C2'	-6.42	96.18	102.60
1	AA	806	C	N3-C4-C5	-6.42	119.33	121.90
26	BB	119	A	N1-C6-N6	-6.42	114.75	118.60
26	BB	138	U	C2-N3-C4	-6.42	123.15	127.00
26	BB	315	G	C6-C5-N7	-6.42	126.55	130.40
26	BB	325	G	C1'-O4'-C4'	-6.42	104.77	109.90
26	BB	858	G	C6-C5-N7	-6.42	126.55	130.40
26	BB	1078	U	P-O3'-C3'	6.42	127.40	119.70
26	BB	1525	A	O4'-C1'-N9	6.42	113.33	108.20
26	BB	2388	A	C5-C6-N6	-6.42	118.57	123.70
26	BB	2388	A	N1-C6-N6	6.42	122.45	118.60
26	BB	2616	C	C5'-C4'-O4'	6.42	116.80	109.10
26	BB	2620	C	O4'-C1'-N1	6.42	113.33	108.20
26	BB	2748	A	C5-C6-N1	-6.42	114.49	117.70
26	BB	2785	C	C4'-C3'-C2'	-6.42	96.18	102.60
1	AA	496	A	P-O3'-C3'	6.42	127.40	119.70
1	AA	1209	C	C2-N3-C4	6.42	123.11	119.90
26	BB	1071	G	N1-C2-N3	-6.42	120.05	123.90
26	BB	1860	G	N1-C2-N3	6.42	127.75	123.90
26	BB	1996	C	C5-C6-N1	6.42	124.21	121.00
26	BB	2770	G	N3-C4-C5	-6.42	125.39	128.60
26	BB	2770	G	N3-C4-N9	6.42	129.85	126.00
1	AA	83	C	O4'-C1'-C2'	-6.41	99.39	105.80
1	AA	84	U	C2-N1-C1'	6.41	125.39	117.70
1	AA	1099	G	O4'-C1'-N9	6.41	113.33	108.20
1	AA	1491	G	C6-N1-C2	-6.41	121.25	125.10
25	BA	28	C	C5-C4-N4	-6.41	115.71	120.20
26	BB	938	G	C4'-C3'-C2'	6.41	109.01	102.60
26	BB	953	G	C8-N9-C4	-6.41	103.83	106.40
26	BB	1353	A	C4-C5-N7	-6.41	107.49	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1360	G	N3-C4-C5	-6.41	125.39	128.60
26	BB	1557	C	N3-C2-O2	-6.41	117.41	121.90
26	BB	1873	G	N9-C4-C5	6.41	107.97	105.40
26	BB	1927	A	N1-C2-N3	-6.41	126.09	129.30
26	BB	2240	U	P-O3'-C3'	6.41	127.40	119.70
26	BB	2550	G	P-O3'-C3'	6.41	127.40	119.70
26	BB	2717	C	O4'-C1'-N1	6.41	113.33	108.20
1	AA	1366	C	C6-N1-C1'	6.41	128.49	120.80
2	AB	33	U	O5'-C5'-C4'	-6.41	99.52	111.70
26	BB	705	A	C1'-O4'-C4'	-6.41	104.77	109.90
26	BB	727	A	C6-N1-C2	6.41	122.45	118.60
26	BB	1554	U	N1-C1'-C2'	-6.41	104.95	112.00
26	BB	2068	U	C3'-C2'-C1'	-6.41	96.37	101.50
26	BB	2204	G	C1'-O4'-C4'	-6.41	104.77	109.90
1	AA	407	U	C2-N3-C4	-6.41	123.15	127.00
1	AA	637	C	N3-C2-O2	-6.41	117.41	121.90
1	AA	877	G	C4-N9-C1'	-6.41	118.17	126.50
1	AA	897	C	C6-N1-C2	6.41	122.86	120.30
2	AB	43	G	P-O3'-C3'	6.41	127.39	119.70
26	BB	2142	A	C8-N9-C4	-6.41	103.24	105.80
26	BB	2469	A	C5-N7-C8	-6.41	100.69	103.90
35	BK	73	PRO	N-CA-CB	6.41	110.99	103.30
1	AA	336	A	N3-C4-C5	-6.41	122.31	126.80
1	AA	668	G	N9-C4-C5	-6.41	102.84	105.40
1	AA	679	C	C4-C5-C6	6.41	120.60	117.40
1	AA	852	G	C5-C6-N1	6.41	114.70	111.50
3	AC	46	C	N1-C2-O2	6.41	122.75	118.90
17	AQ	62	ARG	NE-CZ-NH1	-6.41	117.10	120.30
26	BB	604	G	C5'-C4'-O4'	6.41	116.79	109.10
26	BB	722	A	N7-C8-N9	6.41	117.00	113.80
26	BB	827	U	C5-C4-O4	-6.41	122.05	125.90
26	BB	1070	A	C2-N3-C4	-6.41	107.40	110.60
26	BB	1137	G	C5-C6-O6	-6.41	124.75	128.60
26	BB	1162	G	C6-C5-N7	-6.41	126.55	130.40
26	BB	2024	G	C1'-O4'-C4'	-6.41	104.77	109.90
26	BB	2473	U	C5'-C4'-O4'	6.41	116.79	109.10
26	BB	2802	G	C6-N1-C2	-6.41	121.25	125.10
1	AA	90	C	N3-C4-C5	6.41	124.46	121.90
1	AA	126	G	N3-C4-C5	-6.41	125.40	128.60
1	AA	1041	G	C6-C5-N7	-6.41	126.56	130.40
26	BB	1209	U	C5-C6-N1	-6.41	119.50	122.70
26	BB	1874	C	C6-N1-C2	6.41	122.86	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2768	U	N3-C4-C5	6.41	118.44	114.60
1	AA	80	A	O4'-C1'-N9	6.41	113.32	108.20
1	AA	376	G	C1'-O4'-C4'	-6.41	104.78	109.90
1	AA	582	C	O4'-C1'-N1	6.41	113.33	108.20
1	AA	959	A	C1'-O4'-C4'	-6.41	104.78	109.90
1	AA	1048	G	N3-C4-C5	-6.41	125.40	128.60
1	AA	1172	C	C4-C5-C6	6.41	120.60	117.40
1	AA	1427	C	N3-C2-O2	-6.41	117.42	121.90
1	AA	1486	G	N3-C4-C5	-6.41	125.40	128.60
26	BB	351	C	C6-N1-C2	6.41	122.86	120.30
26	BB	470	A	C1'-O4'-C4'	-6.41	104.78	109.90
26	BB	1507	C	N3-C2-O2	-6.41	117.42	121.90
26	BB	1813	G	C6-N1-C2	-6.41	121.26	125.10
26	BB	2173	A	C6-C5-N7	6.41	136.78	132.30
26	BB	2897	U	N3-C4-C5	6.41	118.44	114.60
30	BF	19	PHE	CB-CG-CD2	-6.41	116.32	120.80
1	AA	21	G	C4-C5-N7	-6.40	108.24	110.80
1	AA	194	C	C5'-C4'-C3'	-6.40	105.75	116.00
1	AA	223	A	C2-N3-C4	6.40	113.80	110.60
1	AA	1373	G	C4-C5-N7	6.40	113.36	110.80
26	BB	936	A	N9-C4-C5	6.40	108.36	105.80
26	BB	1386	C	C4-C5-C6	-6.40	114.20	117.40
26	BB	2302	U	N3-C4-O4	6.40	123.88	119.40
26	BB	2554	U	C5'-C4'-O4'	6.40	116.78	109.10
45	BU	18	ARG	NE-CZ-NH2	-6.40	117.10	120.30
1	AA	207	C	C4'-C3'-C2'	-6.40	96.20	102.60
1	AA	360	G	O4'-C1'-N9	6.40	113.32	108.20
1	AA	436	C	N1-C2-O2	6.40	122.74	118.90
1	AA	1020	G	N3-C2-N2	-6.40	115.42	119.90
1	AA	1048	G	C1'-O4'-C4'	-6.40	104.78	109.90
1	AA	1190	G	C6-C5-N7	-6.40	126.56	130.40
26	BB	425	G	N7-C8-N9	6.40	116.30	113.10
26	BB	1206	G	C5-C6-O6	-6.40	124.76	128.60
26	BB	1352	U	P-O3'-C3'	6.40	127.38	119.70
26	BB	2131	U	C2-N3-C4	-6.40	123.16	127.00
26	BB	2134	A	N7-C8-N9	-6.40	110.60	113.80
28	BD	263	ASP	CB-CG-OD1	-6.40	112.54	118.30
1	AA	194	C	O4'-C4'-C3'	-6.40	97.60	104.00
1	AA	521	G	C4-C5-N7	-6.40	108.24	110.80
1	AA	819	A	C5-C6-N6	-6.40	118.58	123.70
8	AH	87	VAL	CG1-CB-CG2	-6.40	100.66	110.90
14	AN	68	ARG	NE-CZ-NH1	6.40	123.50	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	256	A	C4'-C3'-C2'	-6.40	96.20	102.60
26	BB	1085	A	P-O3'-C3'	6.40	127.38	119.70
26	BB	1138	G	N3-C4-N9	-6.40	122.16	126.00
26	BB	1185	G	C4-C5-C6	-6.40	114.96	118.80
26	BB	1976	U	C5'-C4'-O4'	6.40	116.78	109.10
26	BB	2027	G	N3-C4-N9	-6.40	122.16	126.00
26	BB	2303	G	C5'-C4'-O4'	6.40	116.78	109.10
26	BB	2493	U	N3-C4-C5	-6.40	110.76	114.60
26	BB	1106	G	N1-C6-O6	-6.40	116.06	119.90
26	BB	1284	A	C5-C6-N1	6.40	120.90	117.70
26	BB	2092	U	C2-N3-C4	-6.40	123.16	127.00
26	BB	2408	U	C5-C4-O4	-6.40	122.06	125.90
26	BB	2666	C	C3'-C2'-C1'	-6.40	96.38	101.50
41	BQ	36	TYR	CG-CD2-CE2	-6.40	116.18	121.30
1	AA	105	G	C3'-C2'-C1'	6.40	106.62	101.50
1	AA	247	G	C1'-O4'-C4'	-6.40	104.78	109.90
26	BB	244	A	N7-C8-N9	-6.40	110.60	113.80
26	BB	508	A	P-O3'-C3'	6.40	127.38	119.70
26	BB	826	U	N1-C2-N3	6.40	118.74	114.90
26	BB	881	G	C5-C6-O6	-6.40	124.76	128.60
26	BB	1036	G	C5-C6-O6	-6.40	124.76	128.60
26	BB	1316	U	N1-C1'-C2'	-6.40	104.96	112.00
26	BB	1442	U	O4'-C1'-N1	6.40	113.32	108.20
26	BB	1845	G	C5-C6-O6	6.40	132.44	128.60
26	BB	1853	A	C5-C6-N1	6.40	120.90	117.70
26	BB	2145	C	C1'-O4'-C4'	-6.40	104.78	109.90
26	BB	2645	G	O4'-C1'-N9	6.40	113.32	108.20
1	AA	168	G	C1'-O4'-C4'	-6.40	104.78	109.90
1	AA	971	G	O4'-C1'-N9	6.40	113.32	108.20
26	BB	638	G	C6-C5-N7	-6.40	126.56	130.40
26	BB	2340	A	C2-N3-C4	6.40	113.80	110.60
42	BR	52	ARG	NE-CZ-NH2	6.40	123.50	120.30
1	AA	627	G	C5-N7-C8	-6.39	101.10	104.30
1	AA	823	C	O4'-C4'-C3'	-6.39	97.61	104.00
1	AA	992	U	N1-C2-O2	6.39	127.28	122.80
1	AA	1056	U	O4'-C1'-N1	6.39	113.31	108.20
4	AD	71	G	C5-C6-O6	-6.39	124.76	128.60
26	BB	765	C	C3'-C2'-C1'	6.39	106.62	101.50
26	BB	922	C	C5-C6-N1	6.39	124.20	121.00
26	BB	931	U	C4-C5-C6	6.39	123.54	119.70
26	BB	1050	A	C6-N1-C2	-6.39	114.76	118.60
26	BB	1227	G	N1-C6-O6	-6.39	116.06	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1927	A	C2'-C3'-O3'	6.39	123.93	113.70
26	BB	2385	C	C6-N1-C2	-6.39	117.74	120.30
1	AA	491	G	C4'-C3'-C2'	-6.39	96.21	102.60
1	AA	1429	A	C8-N9-C4	-6.39	103.24	105.80
1	AA	1464	U	N3-C4-O4	-6.39	114.92	119.40
1	AA	1487	G	N3-C4-C5	-6.39	125.40	128.60
26	BB	75	G	C5-N7-C8	6.39	107.50	104.30
26	BB	1070	A	O4'-C1'-N9	6.39	113.31	108.20
26	BB	1099	G	N9-C1'-C2'	-6.39	104.97	112.00
26	BB	1218	G	C4'-C3'-C2'	-6.39	96.21	102.60
26	BB	2129	C	O4'-C1'-N1	6.39	113.31	108.20
26	BB	2389	G	C8-N9-C4	-6.39	103.84	106.40
26	BB	2459	A	O4'-C1'-N9	6.39	113.31	108.20
26	BB	2481	G	N1-C6-O6	6.39	123.73	119.90
26	BB	2594	C	C5'-C4'-C3'	-6.39	105.77	116.00
1	AA	240	G	N3-C4-N9	6.39	129.83	126.00
1	AA	768	A	N1-C6-N6	-6.39	114.77	118.60
1	AA	931	C	C5'-C4'-O4'	6.39	116.77	109.10
25	BA	42	C	C5-C4-N4	6.39	124.67	120.20
26	BB	538	A	C4'-C3'-C2'	-6.39	96.21	102.60
26	BB	779	U	C6-N1-C2	-6.39	117.17	121.00
26	BB	2326	C	N1-C2-O2	6.39	122.73	118.90
26	BB	2830	C	N3-C4-C5	6.39	124.46	121.90
2	AB	34	C	C2-N1-C1'	6.39	125.83	118.80
2	AB	57	G	C6-N1-C2	-6.39	121.27	125.10
25	BA	104	A	C1'-O4'-C4'	-6.39	104.79	109.90
26	BB	73	A	C5-C6-N6	-6.39	118.59	123.70
26	BB	757	G	N1-C2-N3	6.39	127.73	123.90
26	BB	1871	A	C2-N3-C4	6.39	113.80	110.60
26	BB	1934	C	C5'-C4'-O4'	6.39	116.77	109.10
26	BB	1968	G	C4-C5-C6	6.39	122.63	118.80
26	BB	2256	G	N1-C2-N2	6.39	121.95	116.20
26	BB	2447	G	N1-C6-O6	-6.39	116.07	119.90
26	BB	2686	G	C8-N9-C1'	6.39	135.31	127.00
26	BB	813	U	C5-C4-O4	-6.39	122.07	125.90
26	BB	1007	C	C6-N1-C2	6.39	122.86	120.30
26	BB	1100	C	N3-C2-O2	-6.39	117.43	121.90
26	BB	1487	U	N1-C2-N3	6.39	118.73	114.90
26	BB	2614	A	O4'-C1'-N9	6.39	113.31	108.20
1	AA	706	A	C4-C5-N7	-6.39	107.51	110.70
1	AA	755	G	C8-N9-C4	-6.39	103.85	106.40
25	BA	107	G	N3-C4-C5	-6.39	125.41	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	37	C	C5'-C4'-O4'	6.39	116.77	109.10
26	BB	613	A	C6-N1-C2	6.39	122.43	118.60
26	BB	812	C	C6-N1-C2	-6.39	117.75	120.30
26	BB	1025	G	N1-C2-N2	6.39	121.95	116.20
26	BB	1349	C	C5-C4-N4	-6.39	115.73	120.20
26	BB	2225	A	C5-C6-N6	6.39	128.81	123.70
26	BB	2378	A	C5-C6-N6	-6.39	118.59	123.70
26	BB	2808	G	C8-N9-C1'	6.39	135.30	127.00
1	AA	26	A	C4'-C3'-C2'	6.38	108.98	102.60
1	AA	80	A	C8-N9-C4	-6.38	103.25	105.80
1	AA	1095	U	C5'-C4'-C3'	-6.38	105.78	116.00
26	BB	731	C	C5-C4-N4	-6.38	115.73	120.20
26	BB	830	G	C5-C6-O6	-6.38	124.77	128.60
26	BB	1014	A	N9-C1'-C2'	-6.38	104.98	112.00
26	BB	1183	U	N1-C1'-C2'	-6.38	104.98	112.00
26	BB	1340	U	C5-C6-N1	-6.38	119.51	122.70
26	BB	2510	C	C5-C4-N4	-6.38	115.73	120.20
26	BB	2513	A	C5-C6-N1	6.38	120.89	117.70
26	BB	2571	U	N1-C2-O2	6.38	127.27	122.80
26	BB	2595	G	C5-C6-N1	-6.38	108.31	111.50
26	BB	2831	G	C6-C5-N7	-6.38	126.57	130.40
1	AA	772	U	N3-C2-O2	-6.38	117.73	122.20
1	AA	1255	G	C6-N1-C2	-6.38	121.27	125.10
1	AA	1467	C	C5-C4-N4	-6.38	115.73	120.20
26	BB	379	G	N7-C8-N9	6.38	116.29	113.10
26	BB	1054	A	N9-C4-C5	6.38	108.35	105.80
26	BB	1845	G	C8-N9-C4	-6.38	103.85	106.40
26	BB	2507	C	O5'-P-OP1	-6.38	99.95	105.70
26	BB	2647	U	N3-C2-O2	-6.38	117.73	122.20
26	BB	2760	C	C6-N1-C2	-6.38	117.75	120.30
1	AA	591	U	O4'-C1'-N1	6.38	113.31	108.20
1	AA	755	G	C4-C5-C6	6.38	122.63	118.80
1	AA	1487	G	P-O3'-C3'	6.38	127.36	119.70
26	BB	233	A	C8-N9-C4	-6.38	103.25	105.80
26	BB	249	C	C5'-C4'-C3'	-6.38	105.79	116.00
26	BB	744	U	C3'-C2'-C1'	6.38	106.61	101.50
26	BB	1535	A	P-O3'-C3'	6.38	127.36	119.70
26	BB	2672	U	N1-C1'-C2'	-6.38	104.98	112.00
3	AC	24	A	C5-C6-N6	-6.38	118.60	123.70
7	AG	203	TYR	CG-CD2-CE2	-6.38	116.20	121.30
26	BB	87	U	N3-C4-O4	6.38	123.87	119.40
26	BB	963	U	C2-N3-C4	-6.38	123.17	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2763	G	N1-C2-N3	-6.38	120.07	123.90
1	AA	278	G	C4-C5-C6	6.38	122.63	118.80
1	AA	358	U	C5'-C4'-O4'	6.38	116.75	109.10
1	AA	669	G	C6-C5-N7	-6.38	126.57	130.40
1	AA	777	A	N9-C4-C5	6.38	108.35	105.80
26	BB	45	G	N3-C4-N9	6.38	129.83	126.00
26	BB	165	A	N7-C8-N9	6.38	116.99	113.80
26	BB	224	U	C2-N3-C4	-6.38	123.17	127.00
26	BB	563	A	C8-N9-C4	-6.38	103.25	105.80
26	BB	844	A	C4'-C3'-C2'	-6.38	96.22	102.60
26	BB	2700	A	N7-C8-N9	6.38	116.99	113.80
1	AA	482	A	N7-C8-N9	6.38	116.99	113.80
15	AO	105	GLY	CA-C-N	-6.38	103.17	117.20
17	AQ	100	TRP	CD1-NE1-CE2	6.38	114.74	109.00
26	BB	61	C	C2-N3-C4	-6.38	116.71	119.90
26	BB	322	A	C3'-C2'-C1'	-6.38	96.40	101.50
26	BB	473	G	N3-C2-N2	-6.38	115.44	119.90
26	BB	724	U	N3-C4-O4	6.38	123.86	119.40
26	BB	932	U	N1-C2-O2	6.38	127.26	122.80
26	BB	1886	U	C2-N3-C4	6.38	130.83	127.00
26	BB	2732	G	C8-N9-C1'	-6.38	118.71	127.00
1	AA	227	G	N7-C8-N9	6.38	116.29	113.10
1	AA	263	A	N9-C4-C5	6.38	108.35	105.80
1	AA	835	U	C5'-C4'-O4'	-6.38	101.45	109.10
2	AB	53	G	C6-C5-N7	-6.38	126.58	130.40
26	BB	1291	C	O4'-C1'-N1	6.38	113.30	108.20
26	BB	1709	U	N3-C2-O2	-6.38	117.74	122.20
40	BP	4	ARG	NE-CZ-NH1	6.38	123.49	120.30
1	AA	35	G	N7-C8-N9	-6.37	109.91	113.10
1	AA	276	G	C2-N3-C4	6.37	115.09	111.90
1	AA	455	G	C5-C6-N1	6.37	114.69	111.50
1	AA	997	U	C4'-C3'-C2'	-6.37	96.23	102.60
1	AA	1328	C	N1-C2-O2	6.37	122.72	118.90
2	AB	4	G	C4'-C3'-C2'	-6.37	96.23	102.60
4	AD	17	C	C6-N1-C2	-6.37	117.75	120.30
26	BB	1356	G	O4'-C4'-C3'	-6.37	97.63	104.00
26	BB	1405	U	N1-C2-N3	6.37	118.72	114.90
26	BB	1477	A	C4'-C3'-C2'	6.37	108.97	102.60
26	BB	1693	U	O4'-C1'-C2'	-6.37	99.43	105.80
26	BB	2277	G	C6-N1-C2	-6.37	121.28	125.10
26	BB	2465	C	C2-N3-C4	-6.37	116.71	119.90
26	BB	2481	G	C2-N3-C4	6.37	115.09	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2542	A	C8-N9-C4	-6.37	103.25	105.80
1	AA	59	A	P-O3'-C3'	6.37	127.34	119.70
1	AA	448	A	N7-C8-N9	-6.37	110.61	113.80
1	AA	1050	G	N7-C8-N9	6.37	116.28	113.10
1	AA	1073	U	O4'-C1'-N1	6.37	113.30	108.20
25	BA	103	U	C3'-C2'-C1'	-6.37	96.40	101.50
26	BB	1626	A	N1-C2-N3	-6.37	126.11	129.30
26	BB	1869	G	N7-C8-N9	6.37	116.29	113.10
26	BB	2040	G	C3'-C2'-C1'	6.37	106.60	101.50
26	BB	2433	A	C5-N7-C8	6.37	107.09	103.90
1	AA	169	C	C6-N1-C2	-6.37	117.75	120.30
1	AA	420	U	C4-C5-C6	6.37	123.52	119.70
1	AA	497	G	C5-C6-N1	6.37	114.69	111.50
1	AA	674	G	C8-N9-C4	-6.37	103.85	106.40
25	BA	30	C	C4-C5-C6	-6.37	114.22	117.40
26	BB	1404	C	N3-C4-C5	6.37	124.45	121.90
26	BB	1849	G	C5-C6-O6	-6.37	124.78	128.60
26	BB	2286	G	N9-C4-C5	6.37	107.95	105.40
1	AA	23	C	C1'-O4'-C4'	6.37	114.99	109.90
1	AA	288	A	O4'-C1'-C2'	6.37	113.33	107.60
1	AA	1168	U	N1-C2-O2	-6.37	118.34	122.80
26	BB	805	G	C8-N9-C4	-6.37	103.85	106.40
26	BB	837	C	N1-C2-O2	6.37	122.72	118.90
26	BB	1478	G	C6-N1-C2	-6.37	121.28	125.10
26	BB	1804	C	N1-C2-O2	6.37	122.72	118.90
26	BB	2116	G	C5-C6-N1	6.37	114.68	111.50
26	BB	2872	A	C5-C6-N6	6.37	128.79	123.70
1	AA	1261	A	C5-N7-C8	-6.37	100.72	103.90
26	BB	1263	U	C5-C6-N1	6.37	125.88	122.70
26	BB	2088	A	C4-C5-N7	-6.37	107.52	110.70
1	AA	328	C	N3-C4-N4	6.37	122.45	118.00
1	AA	765	G	C4-C5-C6	6.37	122.62	118.80
1	AA	994	A	N1-C2-N3	-6.37	126.12	129.30
26	BB	104	A	N9-C1'-C2'	6.37	122.28	114.00
26	BB	238	C	N3-C4-C5	-6.37	119.35	121.90
26	BB	386	G	O4'-C1'-N9	6.37	113.29	108.20
26	BB	1096	A	N9-C4-C5	6.37	108.35	105.80
26	BB	1733	G	C6-C5-N7	6.37	134.22	130.40
26	BB	1883	U	O4'-C1'-N1	6.37	113.29	108.20
1	AA	567	G	C3'-C2'-C1'	-6.36	96.41	101.50
1	AA	603	U	N3-C4-C5	6.36	118.42	114.60
1	AA	1094	G	C5-N7-C8	-6.36	101.12	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	13	C	C5'-C4'-C3'	-6.36	105.82	116.00
25	BA	96	G	C1'-O4'-C4'	6.36	114.99	109.90
26	BB	1049	C	N1-C2-O2	6.36	122.72	118.90
26	BB	1630	A	C6-N1-C2	-6.36	114.78	118.60
26	BB	1751	U	N3-C4-O4	-6.36	114.95	119.40
26	BB	2308	G	C3'-C2'-C1'	6.36	106.59	101.50
1	AA	177	G	N9-C1'-C2'	-6.36	105.00	112.00
1	AA	602	A	C4-C5-N7	-6.36	107.52	110.70
25	BA	106	G	C2-N3-C4	6.36	115.08	111.90
26	BB	667	U	N3-C4-O4	-6.36	114.95	119.40
26	BB	922	C	N1-C2-O2	6.36	122.72	118.90
26	BB	1301	A	C2-N3-C4	6.36	113.78	110.60
26	BB	1544	A	C5-C6-N1	-6.36	114.52	117.70
26	BB	2140	G	C8-N9-C4	-6.36	103.86	106.40
1	AA	496	A	C5'-C4'-O4'	6.36	116.73	109.10
1	AA	986	U	C5-C6-N1	-6.36	119.52	122.70
26	BB	277	G	O3'-P-O5'	-6.36	91.92	104.00
26	BB	2278	A	C1'-O4'-C4'	-6.36	104.81	109.90
46	BV	95	PHE	CG-CD2-CE2	-6.36	113.80	120.80
3	AC	14	G	C6-N1-C2	-6.36	121.28	125.10
25	BA	66	A	N1-C2-N3	6.36	132.48	129.30
26	BB	436	C	N1-C2-N3	6.36	123.65	119.20
26	BB	461	C	C5-C6-N1	6.36	124.18	121.00
26	BB	1300	G	N1-C2-N3	6.36	127.72	123.90
26	BB	2107	G	N9-C4-C5	6.36	107.94	105.40
26	BB	2690	U	C6-N1-C2	6.36	124.81	121.00
26	BB	284	U	O4'-C1'-N1	6.36	113.29	108.20
26	BB	440	C	C4-C5-C6	-6.36	114.22	117.40
26	BB	513	A	N9-C4-C5	6.36	108.34	105.80
26	BB	606	U	C5-C6-N1	-6.36	119.52	122.70
26	BB	1268	A	C5-C6-N1	6.36	120.88	117.70
26	BB	1450	G	O4'-C1'-N9	6.36	113.29	108.20
26	BB	1771	C	C4'-C3'-C2'	-6.36	96.24	102.60
26	BB	2158	A	C5-C6-N1	6.36	120.88	117.70
26	BB	2446	G	C8-N9-C4	-6.36	103.86	106.40
27	BC	134	ARG	NE-CZ-NH1	6.36	123.48	120.30
1	AA	174	A	C4'-C3'-C2'	-6.36	96.25	102.60
1	AA	712	A	N7-C8-N9	6.36	116.98	113.80
1	AA	804	U	C3'-C2'-C1'	6.36	106.58	101.50
1	AA	1278	G	C5-C6-O6	6.36	132.41	128.60
4	AD	26	C	N3-C4-C5	-6.36	119.36	121.90
26	BB	417	C	N1-C2-O2	6.36	122.71	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	760	G	N7-C8-N9	6.36	116.28	113.10
26	BB	896	A	C4-C5-N7	-6.36	107.52	110.70
26	BB	1631	G	O4'-C1'-N9	-6.36	103.11	108.20
26	BB	1650	A	C5-C6-N1	6.36	120.88	117.70
26	BB	1662	U	C4'-C3'-C2'	-6.36	96.24	102.60
26	BB	1666	G	C4-C5-N7	-6.36	108.26	110.80
26	BB	1680	U	C6-N1-C2	-6.36	117.19	121.00
26	BB	1842	G	C5-N7-C8	-6.36	101.12	104.30
26	BB	2422	C	C5-C6-N1	6.36	124.18	121.00
26	BB	2811	G	N7-C8-N9	6.36	116.28	113.10
1	AA	383	A	C8-N9-C4	-6.35	103.26	105.80
6	AF	92	ASP	CB-CG-OD1	-6.35	112.58	118.30
26	BB	53	A	C5-C6-N6	-6.35	118.62	123.70
1	AA	188	C	N3-C4-C5	-6.35	119.36	121.90
1	AA	242	G	N3-C4-C5	-6.35	125.42	128.60
1	AA	1327	C	N1-C1'-C2'	-6.35	105.01	112.00
3	AC	24	A	O4'-C1'-N9	6.35	113.28	108.20
26	BB	97	C	C2-N3-C4	-6.35	116.72	119.90
26	BB	595	C	C4'-C3'-C2'	-6.35	96.25	102.60
26	BB	600	G	C6-C5-N7	-6.35	126.59	130.40
26	BB	809	G	N9-C4-C5	6.35	107.94	105.40
26	BB	1046	A	C5-C6-N1	6.35	120.88	117.70
26	BB	1131	G	C5-C6-O6	-6.35	124.79	128.60
26	BB	1892	C	O4'-C1'-N1	6.35	113.28	108.20
26	BB	2248	C	N3-C2-O2	-6.35	117.45	121.90
26	BB	2320	U	P-O3'-C3'	6.35	127.32	119.70
1	AA	362	G	C4-C5-N7	6.35	113.34	110.80
1	AA	649	A	C2-N3-C4	6.35	113.78	110.60
1	AA	866	C	C5-C6-N1	6.35	124.18	121.00
1	AA	1116	U	O4'-C4'-C3'	6.35	111.18	106.10
26	BB	423	A	C2-N3-C4	6.35	113.78	110.60
26	BB	1331	G	N1-C6-O6	-6.35	116.09	119.90
1	AA	241	G	C5-N7-C8	-6.35	101.12	104.30
1	AA	696	A	O4'-C1'-N9	6.35	113.28	108.20
1	AA	1084	G	N7-C8-N9	6.35	116.27	113.10
1	AA	1477	U	C5-C4-O4	-6.35	122.09	125.90
25	BA	110	C	O4'-C1'-N1	6.35	113.28	108.20
26	BB	389	G	N9-C1'-C2'	-6.35	105.02	112.00
26	BB	654	A	C4-C5-N7	-6.35	107.53	110.70
26	BB	706	A	C2-N3-C4	6.35	113.78	110.60
26	BB	929	U	C2'-C3'-O3'	6.35	123.86	113.70
26	BB	1123	C	N3-C4-C5	-6.35	119.36	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1923	U	N1-C2-N3	6.35	118.71	114.90
26	BB	2058	A	N3-C4-C5	-6.35	122.36	126.80
26	BB	2352	A	N1-C2-N3	-6.35	126.12	129.30
26	BB	2840	C	N1-C2-O2	6.35	122.71	118.90
1	AA	617	G	C8-N9-C1'	6.35	135.25	127.00
1	AA	980	C	C6-N1-C2	-6.35	117.76	120.30
1	AA	1416	G	C4'-C3'-C2'	6.35	108.95	102.60
26	BB	318	C	C4'-C3'-C2'	-6.35	96.25	102.60
26	BB	405	U	N1-C1'-C2'	6.35	122.25	114.00
26	BB	1167	C	C6-N1-C2	-6.35	117.76	120.30
26	BB	1336	A	N1-C6-N6	-6.35	114.79	118.60
1	AA	679	C	C4'-C3'-C2'	-6.35	96.25	102.60
1	AA	1212	U	C6-N1-C2	-6.35	117.19	121.00
26	BB	225	C	N3-C4-N4	6.35	122.44	118.00
26	BB	1638	C	C4'-C3'-C2'	-6.35	96.25	102.60
26	BB	2785	C	C2-N3-C4	6.35	123.07	119.90
1	AA	155	A	C2-N3-C4	6.34	113.77	110.60
1	AA	339	C	C2-N3-C4	6.34	123.07	119.90
1	AA	1090	U	C4'-C3'-C2'	-6.34	96.25	102.60
1	AA	1325	C	C2-N3-C4	6.34	123.07	119.90
26	BB	139	U	O4'-C1'-N1	6.34	113.28	108.20
26	BB	412	A	C5-C6-N1	6.34	120.87	117.70
26	BB	500	G	N7-C8-N9	6.34	116.27	113.10
26	BB	864	G	N9-C4-C5	6.34	107.94	105.40
26	BB	2132	U	O3'-P-O5'	-6.34	91.95	104.00
26	BB	2508	G	C6-N1-C2	-6.34	121.29	125.10
26	BB	2736	A	C6-N1-C2	-6.34	114.79	118.60
1	AA	1494	G	C3'-C2'-C1'	6.34	106.58	101.50
26	BB	454	A	O4'-C1'-N9	6.34	113.28	108.20
26	BB	869	G	O4'-C1'-N9	6.34	113.27	108.20
26	BB	1024	G	N3-C4-N9	-6.34	122.19	126.00
26	BB	1375	U	C2-N3-C4	-6.34	123.19	127.00
26	BB	1851	U	C2-N3-C4	-6.34	123.19	127.00
26	BB	2891	U	C3'-C2'-C1'	6.34	106.57	101.50
34	BJ	52	ARG	CD-NE-CZ	6.34	132.48	123.60
1	AA	565	U	O4'-C1'-N1	6.34	113.27	108.20
1	AA	976	G	C6-N1-C2	-6.34	121.30	125.10
1	AA	1235	U	O4'-C1'-N1	6.34	113.27	108.20
1	AA	1251	A	C2-N3-C4	6.34	113.77	110.60
26	BB	621	A	C5-C6-N1	6.34	120.87	117.70
26	BB	792	A	N1-C2-N3	-6.34	126.13	129.30
26	BB	1007	C	O4'-C1'-N1	6.34	113.27	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1135	C	C6-N1-C2	6.34	122.84	120.30
26	BB	1442	U	C1'-O4'-C4'	6.34	114.97	109.90
26	BB	2001	C	C4'-C3'-C2'	-6.34	96.26	102.60
26	BB	2403	C	C2-N3-C4	6.34	123.07	119.90
26	BB	2497	A	C4-C5-N7	-6.34	107.53	110.70
26	BB	2536	G	N3-C2-N2	6.34	124.34	119.90
1	AA	102	G	N9-C4-C5	6.34	107.94	105.40
1	AA	355	C	O4'-C1'-C2'	-6.34	99.46	105.80
1	AA	695	A	O4'-C1'-N9	6.34	113.27	108.20
1	AA	849	G	C5-C6-O6	-6.34	124.80	128.60
1	AA	1204	A	C5-C6-N1	6.34	120.87	117.70
1	AA	1349	A	O4'-C1'-N9	6.34	113.27	108.20
26	BB	156	A	C4'-C3'-C2'	-6.34	96.26	102.60
26	BB	202	U	C5'-C4'-C3'	-6.34	105.86	116.00
26	BB	859	G	C4-C5-N7	6.34	113.34	110.80
26	BB	1237	A	C5'-C4'-O4'	6.34	116.71	109.10
26	BB	2147	A	O4'-C1'-N9	6.34	113.27	108.20
26	BB	2541	A	N1-C2-N3	6.34	132.47	129.30
26	BB	2756	U	C6-N1-C2	6.34	124.80	121.00
1	AA	1409	C	C6-N1-C2	-6.34	117.77	120.30
26	BB	1	G	C2-N3-C4	6.34	115.07	111.90
26	BB	37	C	O4'-C1'-N1	6.34	113.27	108.20
26	BB	45	G	C5'-C4'-C3'	-6.34	105.86	116.00
26	BB	287	G	C3'-C2'-C1'	-6.34	96.43	101.50
26	BB	1264	A	N7-C8-N9	6.34	116.97	113.80
26	BB	1682	G	C8-N9-C4	6.34	108.94	106.40
26	BB	1722	A	C5-C6-N6	-6.34	118.63	123.70
26	BB	2665	A	C5-N7-C8	-6.34	100.73	103.90
1	AA	691	G	O4'-C4'-C3'	6.34	111.17	106.10
1	AA	1205	U	N1-C2-O2	-6.34	118.36	122.80
1	AA	1371	G	N1-C6-O6	6.34	123.70	119.90
1	AA	1486	G	N9-C4-C5	-6.34	102.87	105.40
2	AB	53	G	N1-C6-O6	-6.34	116.10	119.90
26	BB	816	C	C5'-C4'-O4'	6.34	116.70	109.10
26	BB	1276	A	N1-C6-N6	6.34	122.40	118.60
26	BB	1467	U	N3-C2-O2	-6.34	117.77	122.20
26	BB	2178	C	C2-N1-C1'	6.34	125.77	118.80
26	BB	2242	G	N9-C4-C5	6.34	107.94	105.40
26	BB	2413	G	N1-C2-N3	-6.34	120.10	123.90
26	BB	2651	C	N3-C2-O2	-6.34	117.47	121.90
35	BK	115	ASP	CB-CG-OD2	-6.34	112.60	118.30
1	AA	266	G	O5'-C5'-C4'	-6.33	99.66	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	948	C	C4'-C3'-C2'	-6.33	96.27	102.60
1	AA	1027	C	O4'-C1'-N1	6.33	113.27	108.20
1	AA	1047	G	N7-C8-N9	-6.33	109.93	113.10
1	AA	1403	C	C4'-C3'-C2'	-6.33	96.27	102.60
26	BB	285	G	N3-C4-N9	-6.33	122.20	126.00
26	BB	959	A	O5'-C5'-C4'	-6.33	99.66	111.70
26	BB	1699	G	N7-C8-N9	6.33	116.27	113.10
26	BB	1892	C	N1-C2-O2	6.33	122.70	118.90
26	BB	2610	C	N3-C4-N4	6.33	122.44	118.00
26	BB	2750	A	C4-C5-N7	-6.33	107.53	110.70
31	BG	5	ASP	CB-CG-OD2	-6.33	112.60	118.30
1	AA	74	A	O4'-C1'-C2'	6.33	113.30	107.60
1	AA	513	C	C6-N1-C2	-6.33	117.77	120.30
1	AA	859	G	C8-N9-C4	-6.33	103.87	106.40
26	BB	405	U	N1-C2-N3	6.33	118.70	114.90
26	BB	483	A	O4'-C1'-C2'	6.33	113.30	107.60
26	BB	1231	U	N3-C2-O2	-6.33	117.77	122.20
26	BB	1313	U	C2-N3-C4	6.33	130.80	127.00
26	BB	1730	C	N1-C2-O2	6.33	122.70	118.90
26	BB	1818	U	O4'-C1'-N1	6.33	113.27	108.20
26	BB	1947	C	C4-C5-C6	-6.33	114.23	117.40
26	BB	2425	A	N1-C2-N3	-6.33	126.13	129.30
26	BB	2617	U	C5-C6-N1	-6.33	119.53	122.70
26	BB	2736	A	C3'-C2'-C1'	-6.33	96.43	101.50
45	BU	11	ARG	NE-CZ-NH1	6.33	123.47	120.30
1	AA	167	A	C4'-C3'-C2'	-6.33	96.27	102.60
1	AA	954	G	N3-C4-C5	-6.33	125.43	128.60
1	AA	1167	A	C1'-O4'-C4'	6.33	114.97	109.90
1	AA	1423	G	C5'-C4'-O4'	6.33	116.70	109.10
2	AB	33	U	N1-C2-N3	6.33	118.70	114.90
4	AD	66	C	C5-C6-N1	-6.33	117.83	121.00
25	BA	79	G	C8-N9-C4	-6.33	103.87	106.40
25	BA	108	A	P-O3'-C3'	6.33	127.30	119.70
26	BB	551	G	C5-C6-O6	-6.33	124.80	128.60
26	BB	1068	G	C6-N1-C2	-6.33	121.30	125.10
26	BB	2192	U	O4'-C1'-N1	6.33	113.27	108.20
26	BB	2391	G	C2-N3-C4	6.33	115.06	111.90
26	BB	2397	G	O4'-C1'-N9	6.33	113.27	108.20
26	BB	2622	U	C5-C6-N1	6.33	125.87	122.70
1	AA	198	G	C2-N3-C4	6.33	115.06	111.90
1	AA	353	A	N3-C4-C5	-6.33	122.37	126.80
1	AA	878	A	N9-C4-C5	6.33	108.33	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1072	G	C3'-C2'-C1'	6.33	106.56	101.50
26	BB	793	A	O4'-C4'-C3'	6.33	111.16	106.10
26	BB	822	G	N1-C6-O6	6.33	123.70	119.90
26	BB	1104	C	C3'-C2'-C1'	6.33	106.56	101.50
26	BB	1121	C	O4'-C1'-N1	6.33	113.26	108.20
26	BB	1413	A	C5'-C4'-O4'	-6.33	101.50	109.10
26	BB	1779	U	O4'-C1'-N1	6.33	113.26	108.20
26	BB	1822	C	OP1-P-OP2	6.33	129.09	119.60
26	BB	2687	U	O4'-C1'-N1	6.33	113.26	108.20
26	BB	2825	G	C2-N3-C4	6.33	115.06	111.90
1	AA	284	C	C3'-C2'-C1'	6.33	106.56	101.50
1	AA	385	C	N1-C2-O2	6.33	122.70	118.90
1	AA	430	A	C4-C5-C6	6.33	120.16	117.00
1	AA	680	C	C3'-C2'-C1'	6.33	106.56	101.50
1	AA	1088	G	C5-C6-O6	-6.33	124.80	128.60
1	AA	1100	C	N3-C4-N4	-6.33	113.57	118.00
1	AA	1273	C	C2-N1-C1'	-6.33	111.84	118.80
1	AA	1370	G	O4'-C1'-N9	6.33	113.26	108.20
1	AA	1513	A	O4'-C4'-C3'	-6.33	97.67	104.00
26	BB	169	G	C5-N7-C8	6.33	107.47	104.30
26	BB	994	C	C3'-C2'-C1'	6.33	106.56	101.50
26	BB	1802	A	O4'-C1'-N9	6.33	113.26	108.20
26	BB	1833	C	O4'-C1'-N1	6.33	113.26	108.20
26	BB	2101	A	C5'-C4'-O4'	6.33	116.69	109.10
26	BB	2287	A	C5-C6-N1	6.33	120.86	117.70
26	BB	2319	G	C6-N1-C2	-6.33	121.30	125.10
26	BB	2342	C	O4'-C1'-C2'	6.33	113.30	107.60
43	BS	63	ARG	CD-NE-CZ	-6.33	114.74	123.60
1	AA	402	G	N9-C4-C5	6.33	107.93	105.40
26	BB	420	C	C1'-O4'-C4'	6.33	114.96	109.90
26	BB	617	G	C5-C6-N1	6.33	114.66	111.50
26	BB	1147	A	C8-N9-C4	-6.33	103.27	105.80
26	BB	1407	G	C6-N1-C2	-6.33	121.30	125.10
26	BB	2265	U	N3-C2-O2	-6.33	117.77	122.20
1	AA	468	A	N9-C4-C5	-6.33	103.27	105.80
1	AA	744	C	N3-C2-O2	-6.33	117.47	121.90
1	AA	1241	G	N9-C4-C5	-6.33	102.87	105.40
1	AA	1396	A	C5-N7-C8	6.33	107.06	103.90
26	BB	282	A	C8-N9-C4	-6.33	103.27	105.80
26	BB	597	G	N3-C4-C5	-6.33	125.44	128.60
26	BB	603	A	N7-C8-N9	6.33	116.96	113.80
26	BB	658	U	N3-C4-C5	-6.33	110.81	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	992	C	P-O3'-C3'	6.33	127.29	119.70
26	BB	1286	A	C1'-O4'-C4'	-6.33	104.84	109.90
26	BB	2423	U	O4'-C1'-N1	6.33	113.26	108.20
26	BB	2672	U	N3-C4-C5	-6.33	110.81	114.60
1	AA	230	G	O4'-C1'-N9	6.32	113.26	108.20
1	AA	309	A	N1-C6-N6	-6.32	114.81	118.60
26	BB	288	U	C2-N3-C4	6.32	130.79	127.00
26	BB	365	U	N3-C4-O4	-6.32	114.97	119.40
26	BB	1832	C	N3-C2-O2	-6.32	117.47	121.90
26	BB	1869	G	C2-N3-C4	-6.32	108.74	111.90
26	BB	2414	G	C5-N7-C8	6.32	107.46	104.30
1	AA	327	A	C4-C5-N7	-6.32	107.54	110.70
1	AA	867	G	C4'-C3'-C2'	-6.32	96.28	102.60
1	AA	1067	A	C8-N9-C4	6.32	108.33	105.80
1	AA	1163	A	O4'-C1'-N9	6.32	113.26	108.20
26	BB	1138	G	C4-C5-N7	-6.32	108.27	110.80
26	BB	1147	A	C5-N7-C8	-6.32	100.74	103.90
26	BB	2844	G	C5-N7-C8	-6.32	101.14	104.30
1	AA	488	C	C4'-C3'-C2'	-6.32	96.28	102.60
1	AA	518	C	C4'-C3'-C2'	-6.32	96.28	102.60
1	AA	819	A	O4'-C1'-C2'	-6.32	99.48	105.80
1	AA	1414	U	C6-N1-C2	-6.32	117.21	121.00
1	AA	1468	A	N9-C4-C5	6.32	108.33	105.80
26	BB	1977	A	C4-C5-C6	-6.32	113.84	117.00
26	BB	2152	G	C5'-C4'-O4'	6.32	116.69	109.10
26	BB	2199	A	N7-C8-N9	6.32	116.96	113.80
26	BB	2319	G	N3-C4-C5	6.32	131.76	128.60
26	BB	2577	A	C1'-O4'-C4'	6.32	114.96	109.90
34	BJ	67	PRO	CA-N-CD	-6.32	102.65	111.50
1	AA	1061	G	C5-N7-C8	6.32	107.46	104.30
26	BB	458	G	N3-C4-C5	-6.32	125.44	128.60
26	BB	1078	U	C5-C4-O4	6.32	129.69	125.90
26	BB	1572	A	N1-C6-N6	-6.32	114.81	118.60
26	BB	1832	C	C6-N1-C2	-6.32	117.77	120.30
1	AA	749	A	C4-C5-N7	6.32	113.86	110.70
1	AA	785	G	N3-C4-C5	-6.32	125.44	128.60
1	AA	905	U	O4'-C4'-C3'	6.32	111.15	106.10
1	AA	987	G	N3-C4-N9	-6.32	122.21	126.00
1	AA	1263	C	C6-N1-C2	-6.32	117.77	120.30
3	AC	52	U	C5-C4-O4	6.32	129.69	125.90
26	BB	451	U	C4'-C3'-C2'	-6.32	96.28	102.60
26	BB	478	A	C5-C6-N6	6.32	128.75	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1331	G	C5-C6-N1	6.32	114.66	111.50
26	BB	2088	A	N1-C2-N3	-6.32	126.14	129.30
1	AA	108	G	C4-C5-C6	6.32	122.59	118.80
1	AA	201	G	C4'-C3'-C2'	-6.32	96.28	102.60
1	AA	254	G	C8-N9-C4	-6.32	103.87	106.40
1	AA	269	C	C1'-O4'-C4'	6.32	114.95	109.90
1	AA	568	G	N9-C4-C5	6.32	107.93	105.40
1	AA	1149	C	C4-C5-C6	6.32	120.56	117.40
1	AA	1258	G	C5-N7-C8	-6.32	101.14	104.30
1	AA	1466	C	O4'-C1'-N1	6.32	113.25	108.20
1	AA	1542	A	C8-N9-C4	-6.32	103.27	105.80
2	AB	19	G	N7-C8-N9	6.32	116.26	113.10
25	BA	72	G	N3-C4-C5	-6.32	125.44	128.60
26	BB	634	C	C4-C5-C6	6.32	120.56	117.40
26	BB	688	U	O4'-C1'-N1	6.32	113.25	108.20
26	BB	1047	G	N3-C2-N2	6.32	124.32	119.90
26	BB	1332	G	C5-C6-N1	6.32	114.66	111.50
26	BB	1845	G	C6-N1-C2	-6.32	121.31	125.10
1	AA	466	A	N1-C6-N6	6.31	122.39	118.60
1	AA	900	A	O4'-C1'-N9	6.31	113.25	108.20
1	AA	1501	C	C5'-C4'-O4'	6.31	116.68	109.10
1	AA	1535	C	O4'-C1'-N1	6.31	113.25	108.20
26	BB	1241	A	C4-C5-C6	-6.31	113.84	117.00
26	BB	1855	U	N3-C4-C5	-6.31	110.81	114.60
26	BB	2025	C	C5-C4-N4	-6.31	115.78	120.20
1	AA	426	U	N1-C2-O2	-6.31	118.38	122.80
1	AA	977	A	C4-C5-N7	-6.31	107.54	110.70
1	AA	1153	G	N1-C2-N3	-6.31	120.11	123.90
1	AA	1233	G	C2-N3-C4	6.31	115.06	111.90
1	AA	1470	U	C5-C4-O4	-6.31	122.11	125.90
1	AA	1488	G	N7-C8-N9	-6.31	109.94	113.10
1	AA	1512	U	C5-C6-N1	-6.31	119.54	122.70
25	BA	88	C	C4-C5-C6	-6.31	114.24	117.40
26	BB	285	G	C2-N3-C4	6.31	115.06	111.90
26	BB	617	G	C2-N3-C4	6.31	115.06	111.90
26	BB	622	G	C5'-C4'-O4'	6.31	116.67	109.10
26	BB	798	G	N1-C2-N3	-6.31	120.11	123.90
26	BB	1358	G	N3-C4-C5	-6.31	125.44	128.60
26	BB	1408	G	N9-C4-C5	6.31	107.92	105.40
26	BB	1550	C	C5-C6-N1	-6.31	117.84	121.00
26	BB	1596	A	N9-C4-C5	6.31	108.33	105.80
26	BB	2249	U	N3-C4-C5	-6.31	110.81	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2866	U	C5-C4-O4	6.31	129.69	125.90
1	AA	792	A	C5-N7-C8	6.31	107.06	103.90
26	BB	901	C	N1-C1'-C2'	-6.31	105.06	112.00
26	BB	1625	C	C4-C5-C6	-6.31	114.25	117.40
26	BB	1716	U	C5-C4-O4	-6.31	122.11	125.90
26	BB	2112	G	N3-C4-C5	-6.31	125.44	128.60
26	BB	2658	C	C6-N1-C2	-6.31	117.78	120.30
1	AA	212	G	C5'-C4'-C3'	-6.31	105.90	116.00
1	AA	511	C	O4'-C1'-N1	6.31	113.25	108.20
1	AA	623	C	C3'-C2'-C1'	6.31	106.55	101.50
1	AA	998	C	C6-N1-C2	-6.31	117.78	120.30
26	BB	632	A	C8-N9-C4	-6.31	103.28	105.80
26	BB	672	C	C2-N3-C4	6.31	123.06	119.90
26	BB	793	A	C4-C5-N7	-6.31	107.55	110.70
26	BB	945	A	C3'-C2'-C1'	6.31	106.55	101.50
26	BB	1039	A	C5'-C4'-C3'	-6.31	105.90	116.00
26	BB	1498	C	N1-C2-O2	6.31	122.69	118.90
26	BB	1948	G	N7-C8-N9	-6.31	109.94	113.10
1	AA	86	G	C6-C5-N7	-6.31	126.61	130.40
1	AA	108	G	C6-N1-C2	-6.31	121.31	125.10
1	AA	474	G	N9-C1'-C2'	-6.31	105.06	112.00
1	AA	693	G	C4'-C3'-C2'	-6.31	96.29	102.60
1	AA	830	G	O4'-C1'-N9	6.31	113.25	108.20
1	AA	1020	G	C8-N9-C4	-6.31	103.88	106.40
3	AC	53	G	N3-C4-C5	-6.31	125.45	128.60
4	AD	70	C	C5-C6-N1	6.31	124.15	121.00
26	BB	1349	C	N3-C2-O2	-6.31	117.48	121.90
26	BB	2239	G	C5-C6-N1	6.31	114.65	111.50
26	BB	2410	G	C4-C5-C6	6.31	122.58	118.80
26	BB	2643	G	C6-C5-N7	-6.31	126.61	130.40
25	BA	61	G	O4'-C4'-C3'	-6.31	97.69	104.00
25	BA	106	G	P-O3'-C3'	6.31	127.27	119.70
26	BB	140	C	N3-C2-O2	-6.31	117.49	121.90
26	BB	475	C	N3-C4-C5	-6.31	119.38	121.90
26	BB	867	C	C2-N1-C1'	-6.31	111.86	118.80
26	BB	1300	G	C3'-C2'-C1'	6.31	106.55	101.50
26	BB	1619	G	C5-C6-N1	6.31	114.65	111.50
26	BB	1887	C	C4-C5-C6	-6.31	114.25	117.40
26	BB	2757	A	C1'-O4'-C4'	-6.31	104.86	109.90
1	AA	205	A	C4-C5-N7	-6.30	107.55	110.70
1	AA	252	U	C6-N1-C2	6.30	124.78	121.00
1	AA	388	G	C6-C5-N7	6.30	134.18	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	414	A	N9-C4-C5	-6.30	103.28	105.80
1	AA	499	A	C8-N9-C4	-6.30	103.28	105.80
1	AA	705	G	C6-N1-C2	-6.30	121.32	125.10
1	AA	1003	G	C6-N1-C2	-6.30	121.32	125.10
1	AA	1116	U	C3'-C2'-C1'	6.30	106.54	101.50
1	AA	1493	A	C5-N7-C8	6.30	107.05	103.90
3	AC	52	U	C5'-C4'-O4'	6.30	116.67	109.10
25	BA	112	G	N7-C8-N9	-6.30	109.95	113.10
26	BB	49	A	P-O5'-C5'	-6.30	110.81	120.90
26	BB	597	G	C8-N9-C4	-6.30	103.88	106.40
26	BB	1057	A	C2-N3-C4	6.30	113.75	110.60
26	BB	1164	C	C5-C6-N1	-6.30	117.85	121.00
26	BB	1501	G	C2-N3-C4	6.30	115.05	111.90
26	BB	2484	G	C5-N7-C8	6.30	107.45	104.30
1	AA	529	G	N1-C2-N3	6.30	127.68	123.90
1	AA	1200	C	C4'-C3'-C2'	-6.30	96.30	102.60
1	AA	1245	C	N1-C2-O2	6.30	122.68	118.90
3	AC	35	G	C8-N9-C4	-6.30	103.88	106.40
4	AD	43	G	N1-C2-N3	-6.30	120.12	123.90
4	AD	67	C	N1-C2-O2	6.30	122.68	118.90
26	BB	204	A	C6-N1-C2	6.30	122.38	118.60
26	BB	899	A	C6-N1-C2	6.30	122.38	118.60
26	BB	1408	G	C5-C6-N1	6.30	114.65	111.50
26	BB	1623	G	N1-C2-N3	6.30	127.68	123.90
26	BB	2733	A	P-O5'-C5'	6.30	130.98	120.90
1	AA	504	C	O4'-C1'-N1	6.30	113.24	108.20
1	AA	717	U	P-O3'-C3'	6.30	127.26	119.70
1	AA	1323	G	C8-N9-C4	6.30	108.92	106.40
26	BB	112	U	N3-C4-C5	6.30	118.38	114.60
26	BB	218	A	N9-C4-C5	6.30	108.32	105.80
26	BB	480	A	C3'-C2'-C1'	6.30	106.54	101.50
26	BB	1456	G	C2-N3-C4	6.30	115.05	111.90
26	BB	1558	C	N3-C4-C5	-6.30	119.38	121.90
26	BB	1795	C	C6-N1-C2	6.30	122.82	120.30
26	BB	2276	G	C5-C6-O6	-6.30	124.82	128.60
26	BB	2399	G	O4'-C1'-N9	6.30	113.24	108.20
1	AA	49	U	N1-C2-O2	6.30	127.21	122.80
1	AA	221	C	P-O3'-C3'	6.30	127.26	119.70
1	AA	491	G	O4'-C1'-N9	6.30	113.24	108.20
1	AA	811	C	C3'-C2'-C1'	6.30	106.54	101.50
5	AE	103	TRP	CD1-NE1-CE2	6.30	114.67	109.00
26	BB	163	C	N3-C4-N4	6.30	122.41	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1057	A	C6-N1-C2	-6.30	114.82	118.60
26	BB	1850	G	N7-C8-N9	6.30	116.25	113.10
26	BB	2216	G	N3-C4-N9	6.30	129.78	126.00
26	BB	2785	C	N1-C2-O2	6.30	122.68	118.90
1	AA	6	G	C3'-C2'-C1'	-6.30	96.46	101.50
1	AA	443	C	C6-N1-C2	-6.30	117.78	120.30
1	AA	969	A	C4-C5-N7	-6.30	107.55	110.70
12	AL	57	VAL	CA-CB-CG1	6.30	120.35	110.90
26	BB	492	A	C3'-C2'-C1'	6.30	106.54	101.50
26	BB	876	C	P-O3'-C3'	6.30	127.25	119.70
26	BB	2073	C	C6-N1-C2	6.30	122.82	120.30
1	AA	102	G	C4-C5-N7	-6.29	108.28	110.80
1	AA	375	U	C6-N1-C2	-6.29	117.22	121.00
1	AA	705	G	N3-C4-N9	6.29	129.78	126.00
26	BB	692	C	N3-C4-N4	6.29	122.41	118.00
26	BB	879	G	N9-C4-C5	6.29	107.92	105.40
1	AA	229	U	C4'-C3'-C2'	-6.29	96.31	102.60
1	AA	230	G	N1-C2-N3	6.29	127.68	123.90
1	AA	350	G	N7-C8-N9	6.29	116.25	113.10
1	AA	1092	A	C6-N1-C2	6.29	122.38	118.60
1	AA	1243	C	C4'-C3'-C2'	-6.29	96.31	102.60
1	AA	1251	A	N3-C4-C5	-6.29	122.39	126.80
1	AA	1460	C	C2-N3-C4	6.29	123.05	119.90
3	AC	59	A	N3-C4-N9	-6.29	122.37	127.40
25	BA	30	C	N1-C2-O2	6.29	122.68	118.90
25	BA	107	G	C3'-C2'-C1'	-6.29	96.47	101.50
26	BB	231	A	N1-C2-N3	-6.29	126.15	129.30
26	BB	691	C	C2-N3-C4	6.29	123.05	119.90
26	BB	1243	C	C2-N3-C4	-6.29	116.75	119.90
26	BB	1405	U	C6-N1-C2	-6.29	117.22	121.00
26	BB	1753	G	N1-C6-O6	-6.29	116.12	119.90
26	BB	2500	U	O4'-C1'-N1	6.29	113.23	108.20
1	AA	422	C	C3'-C2'-C1'	-6.29	96.47	101.50
1	AA	447	G	P-O3'-C3'	6.29	127.25	119.70
1	AA	472	U	C4-C5-C6	-6.29	115.92	119.70
1	AA	498	A	P-O3'-C3'	6.29	127.25	119.70
1	AA	714	G	N7-C8-N9	6.29	116.25	113.10
1	AA	1030	U	P-O5'-C5'	6.29	130.97	120.90
1	AA	1076	U	O4'-C1'-N1	6.29	113.23	108.20
25	BA	3	C	N3-C4-C5	-6.29	119.38	121.90
26	BB	73	A	N1-C6-N6	6.29	122.38	118.60
26	BB	584	C	C4'-C3'-C2'	-6.29	96.31	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	819	A	C8-N9-C4	6.29	108.32	105.80
26	BB	1029	A	N9-C1'-C2'	-6.29	105.08	112.00
26	BB	1463	C	N3-C4-N4	6.29	122.40	118.00
26	BB	1890	A	N9-C4-C5	6.29	108.32	105.80
26	BB	1891	G	N3-C2-N2	-6.29	115.50	119.90
26	BB	1981	A	P-O3'-C3'	6.29	127.25	119.70
26	BB	2388	A	C5'-C4'-O4'	6.29	116.65	109.10
26	BB	2633	G	N3-C2-N2	-6.29	115.50	119.90
1	AA	654	G	C6-N1-C2	-6.29	121.33	125.10
1	AA	1431	A	C2-N3-C4	6.29	113.75	110.60
25	BA	74	U	N1-C2-N3	6.29	118.67	114.90
26	BB	78	U	C3'-C2'-C1'	-6.29	96.47	101.50
26	BB	632	A	C6-N1-C2	6.29	122.37	118.60
26	BB	2285	C	P-O3'-C3'	6.29	127.25	119.70
26	BB	2542	A	O4'-C1'-N9	6.29	113.23	108.20
26	BB	2570	G	C5-N7-C8	-6.29	101.16	104.30
1	AA	715	A	C5'-C4'-O4'	6.29	116.64	109.10
1	AA	1000	A	C5'-C4'-C3'	-6.29	105.94	116.00
1	AA	1130	A	N1-C6-N6	6.29	122.37	118.60
1	AA	1530	G	C5'-C4'-O4'	6.29	116.65	109.10
26	BB	9	G	C5-N7-C8	-6.29	101.16	104.30
26	BB	165	A	O4'-C1'-N9	6.29	113.23	108.20
26	BB	178	G	O4'-C1'-N9	6.29	113.23	108.20
26	BB	251	A	C5-C6-N6	-6.29	118.67	123.70
26	BB	668	A	C4-C5-N7	-6.29	107.56	110.70
26	BB	1257	C	C6-N1-C2	-6.29	117.78	120.30
26	BB	2854	G	C5-C6-N1	-6.29	108.36	111.50
1	AA	813	U	N3-C2-O2	-6.29	117.80	122.20
1	AA	1082	A	N9-C4-C5	6.29	108.31	105.80
1	AA	1169	A	O5'-P-OP2	-6.29	100.04	105.70
26	BB	434	U	C4-C5-C6	6.29	123.47	119.70
26	BB	1086	A	C4-C5-C6	-6.29	113.86	117.00
26	BB	1701	A	C5-C6-N6	-6.29	118.67	123.70
26	BB	1843	C	N1-C2-O2	-6.29	115.13	118.90
26	BB	2066	C	N3-C2-O2	-6.29	117.50	121.90
26	BB	2161	C	O4'-C1'-N1	6.29	113.23	108.20
26	BB	2647	U	N1-C2-N3	6.29	118.67	114.90
26	BB	2863	C	C4-C5-C6	-6.29	114.26	117.40
26	BB	2902	C	C4-C5-C6	6.29	120.54	117.40
1	AA	298	A	C8-N9-C4	-6.29	103.29	105.80
1	AA	731	G	N3-C2-N2	-6.29	115.50	119.90
1	AA	1393	U	C2-N3-C4	-6.29	123.23	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	AG	24	VAL	CA-CB-CG1	-6.29	101.47	110.90
26	BB	108	G	N9-C1'-C2'	-6.29	105.08	112.00
26	BB	225	C	O4'-C1'-C2'	-6.29	99.51	105.80
26	BB	574	A	C6-N1-C2	-6.29	114.83	118.60
26	BB	600	G	C5'-C4'-O4'	6.29	116.64	109.10
26	BB	799	G	N3-C4-N9	6.29	129.77	126.00
26	BB	1933	G	N9-C1'-C2'	-6.29	105.09	112.00
26	BB	2202	U	N1-C2-N3	6.29	118.67	114.90
26	BB	2762	C	O4'-C4'-C3'	6.29	111.13	106.10
1	AA	40	C	C5-C6-N1	-6.28	117.86	121.00
1	AA	79	G	O4'-C1'-N9	6.28	113.23	108.20
1	AA	665	A	O4'-C1'-N9	6.28	113.23	108.20
1	AA	742	G	C6-C5-N7	-6.28	126.63	130.40
1	AA	1433	A	C8-N9-C4	-6.28	103.29	105.80
26	BB	579	G	C2-N3-C4	6.28	115.04	111.90
26	BB	1083	U	C4'-C3'-C2'	6.28	108.88	102.60
26	BB	1153	C	O4'-C1'-C2'	6.28	113.25	107.60
26	BB	1907	G	N3-C4-C5	-6.28	125.46	128.60
26	BB	2074	U	N3-C4-C5	-6.28	110.83	114.60
26	BB	2807	U	C2-N3-C4	-6.28	123.23	127.00
1	AA	74	A	C5-N7-C8	-6.28	100.76	103.90
26	BB	1459	G	N1-C2-N2	6.28	121.85	116.20
26	BB	2655	G	N1-C6-O6	-6.28	116.13	119.90
1	AA	158	G	C6-C5-N7	6.28	134.17	130.40
1	AA	547	A	C5'-C4'-C3'	-6.28	105.95	116.00
1	AA	565	U	N3-C4-C5	6.28	118.37	114.60
1	AA	968	A	C5-C6-N6	-6.28	118.68	123.70
1	AA	1003	G	C3'-C2'-C1'	6.28	106.52	101.50
5	AE	94	ARG	NE-CZ-NH2	-6.28	117.16	120.30
21	AU	42	ARG	NE-CZ-NH1	6.28	123.44	120.30
25	BA	46	A	C5-C6-N6	-6.28	118.67	123.70
26	BB	9	G	C2-N3-C4	-6.28	108.76	111.90
26	BB	55	G	C8-N9-C4	-6.28	103.89	106.40
26	BB	148	U	N1-C2-N3	6.28	118.67	114.90
26	BB	304	U	C5'-C4'-O4'	6.28	116.64	109.10
26	BB	360	U	N1-C2-O2	6.28	127.20	122.80
26	BB	737	C	C5-C4-N4	-6.28	115.80	120.20
26	BB	1682	G	O4'-C1'-N9	6.28	113.22	108.20
26	BB	1980	G	N9-C1'-C2'	-6.28	105.09	112.00
26	BB	2134	A	C6-N1-C2	6.28	122.37	118.60
26	BB	2322	A	C2-N3-C4	6.28	113.74	110.60
26	BB	2479	U	C5-C6-N1	-6.28	119.56	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	687	A	C8-N9-C4	-6.28	103.29	105.80
1	AA	1372	U	N1-C1'-C2'	-6.28	105.09	112.00
26	BB	303	G	C2-N3-C4	6.28	115.04	111.90
26	BB	1271	G	C8-N9-C4	6.28	108.91	106.40
26	BB	1949	G	C1'-O4'-C4'	-6.28	104.88	109.90
26	BB	2119	A	C8-N9-C4	-6.28	103.29	105.80
26	BB	2161	C	C1'-O4'-C4'	-6.28	104.88	109.90
26	BB	2800	A	C8-N9-C4	-6.28	103.29	105.80
1	AA	27	G	C1'-O4'-C4'	6.28	114.92	109.90
1	AA	271	C	N3-C2-O2	-6.28	117.51	121.90
1	AA	614	C	N3-C4-C5	6.28	124.41	121.90
1	AA	723	U	C4'-C3'-C2'	-6.28	96.32	102.60
1	AA	758	C	C5'-C4'-C3'	6.28	126.05	116.00
1	AA	1013	G	P-O3'-C3'	6.28	127.23	119.70
1	AA	1026	G	N3-C2-N2	6.28	124.30	119.90
26	BB	53	A	N3-C4-N9	-6.28	122.38	127.40
26	BB	935	C	C5'-C4'-C3'	-6.28	105.95	116.00
26	BB	1406	U	C5-C4-O4	-6.28	122.13	125.90
26	BB	1588	G	C5-C6-N1	6.28	114.64	111.50
26	BB	2635	A	C5-C6-N6	6.28	128.72	123.70
1	AA	22	G	C5-N7-C8	6.28	107.44	104.30
1	AA	240	G	O4'-C1'-N9	6.28	113.22	108.20
1	AA	401	C	N3-C2-O2	6.28	126.29	121.90
1	AA	657	U	C4-C5-C6	6.28	123.47	119.70
1	AA	940	C	C5-C4-N4	-6.28	115.81	120.20
1	AA	1128	C	O4'-C1'-N1	6.28	113.22	108.20
26	BB	831	G	C8-N9-C4	-6.28	103.89	106.40
26	BB	1288	G	C4-C5-C6	6.28	122.56	118.80
26	BB	1455	G	N1-C2-N2	6.28	121.85	116.20
26	BB	1664	A	C5-N7-C8	6.28	107.04	103.90
26	BB	2095	A	N7-C8-N9	6.28	116.94	113.80
26	BB	2184	A	OP2-P-O3'	6.28	119.01	105.20
26	BB	2573	C	O4'-C4'-C3'	6.28	111.12	106.10
26	BB	2732	G	C6-N1-C2	-6.28	121.33	125.10
1	AA	121	U	O4'-C1'-N1	6.27	113.22	108.20
1	AA	637	C	N1-C2-O2	6.27	122.66	118.90
26	BB	1336	A	C5-C6-N6	6.27	128.72	123.70
26	BB	2721	A	N7-C8-N9	-6.27	110.66	113.80
28	BD	13	ARG	NE-CZ-NH1	6.27	123.44	120.30
1	AA	73	C	N1-C2-N3	6.27	123.59	119.20
1	AA	127	G	N1-C2-N2	6.27	121.85	116.20
1	AA	423	G	N1-C6-O6	-6.27	116.14	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	626	G	C4'-C3'-C2'	-6.27	96.33	102.60
1	AA	1347	G	N3-C4-C5	-6.27	125.46	128.60
1	AA	1387	G	N1-C2-N2	6.27	121.84	116.20
25	BA	115	A	N1-C6-N6	-6.27	114.84	118.60
26	BB	516	C	N1-C2-O2	6.27	122.66	118.90
26	BB	1831	G	O4'-C1'-N9	6.27	113.22	108.20
26	BB	2001	C	C1'-O4'-C4'	6.27	114.92	109.90
1	AA	605	U	N3-C2-O2	-6.27	117.81	122.20
26	BB	382	A	N9-C1'-C2'	-6.27	105.10	112.00
26	BB	492	A	C8-N9-C4	-6.27	103.29	105.80
26	BB	2312	U	N1-C2-N3	6.27	118.66	114.90
26	BB	2769	U	N1-C2-N3	6.27	118.66	114.90
1	AA	320	A	C5-N7-C8	-6.27	100.77	103.90
1	AA	331	G	C2-N3-C4	6.27	115.03	111.90
1	AA	691	G	C5-C6-O6	-6.27	124.84	128.60
1	AA	732	C	N3-C4-C5	6.27	124.41	121.90
4	AD	4	G	O4'-C1'-N9	6.27	113.22	108.20
7	AG	98	ASP	CB-CA-C	6.27	122.94	110.40
26	BB	93	G	C4-C5-C6	6.27	122.56	118.80
26	BB	224	U	P-O3'-C3'	6.27	127.22	119.70
26	BB	2178	C	C2-N3-C4	6.27	123.03	119.90
26	BB	2204	G	C5-C6-O6	-6.27	124.84	128.60
26	BB	2786	U	N3-C2-O2	-6.27	117.81	122.20
26	BB	2857	G	P-O3'-C3'	6.27	127.22	119.70
36	BL	20	ALA	N-CA-CB	-6.27	101.32	110.10
1	AA	68	G	N3-C4-C5	-6.27	125.47	128.60
1	AA	343	U	N1-C1'-C2'	-6.27	105.11	112.00
1	AA	946	A	O4'-C1'-N9	6.27	113.21	108.20
1	AA	1316	G	N1-C2-N2	-6.27	110.56	116.20
1	AA	1385	G	C5-C6-O6	-6.27	124.84	128.60
1	AA	1406	U	O4'-C4'-C3'	6.27	111.11	106.10
1	AA	1419	G	C4-C5-N7	-6.27	108.29	110.80
1	AA	1458	G	O4'-C1'-N9	6.27	113.21	108.20
26	BB	1116	G	N1-C2-N2	-6.27	110.56	116.20
26	BB	2110	G	C6-N1-C2	-6.27	121.34	125.10
26	BB	2197	U	N1-C2-N3	6.27	118.66	114.90
1	AA	664	G	C4-C5-N7	-6.27	108.29	110.80
1	AA	1007	U	N3-C4-C5	-6.27	110.84	114.60
2	AB	6	C	C4-C5-C6	6.27	120.53	117.40
26	BB	723	C	C5'-C4'-O4'	6.27	116.62	109.10
26	BB	920	A	O4'-C1'-N9	6.27	113.21	108.20
26	BB	1042	G	C5-C6-O6	6.27	132.36	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1443	U	C1'-O4'-C4'	6.27	114.91	109.90
1	AA	599	C	N3-C4-C5	6.26	124.41	121.90
25	BA	75	G	C4-C5-N7	6.26	113.31	110.80
26	BB	247	G	O4'-C1'-N9	-6.26	103.19	108.20
26	BB	258	G	C5'-C4'-O4'	6.26	116.62	109.10
26	BB	574	A	O4'-C1'-C2'	6.26	113.24	107.60
26	BB	1442	U	O4'-C4'-C3'	-6.26	97.74	104.00
26	BB	2191	A	N7-C8-N9	6.26	116.93	113.80
26	BB	2240	U	N3-C2-O2	-6.26	117.81	122.20
26	BB	2351	G	C4-C5-N7	6.26	113.31	110.80
26	BB	2373	G	C6-C5-N7	-6.26	126.64	130.40
29	BE	80	TRP	CD1-CG-CD2	-6.26	101.29	106.30
1	AA	1111	A	C2-N3-C4	6.26	113.73	110.60
25	BA	25	U	C6-N1-C2	-6.26	117.24	121.00
26	BB	2756	U	O4'-C1'-N1	6.26	113.21	108.20
26	BB	2889	C	P-O5'-C5'	6.26	130.92	120.90
1	AA	280	C	C5-C6-N1	-6.26	117.87	121.00
1	AA	443	C	N3-C4-C5	-6.26	119.39	121.90
1	AA	1186	G	N1-C2-N2	-6.26	110.56	116.20
25	BA	29	A	N1-C2-N3	-6.26	126.17	129.30
25	BA	50	A	C2-N3-C4	6.26	113.73	110.60
26	BB	561	G	N3-C2-N2	6.26	124.28	119.90
26	BB	1140	C	C5-C6-N1	6.26	124.13	121.00
26	BB	1755	A	O4'-C1'-C2'	6.26	113.23	107.60
26	BB	2578	G	C5'-C4'-O4'	6.26	116.61	109.10
1	AA	384	G	N3-C2-N2	-6.26	115.52	119.90
1	AA	392	C	C5'-C4'-O4'	6.26	116.61	109.10
1	AA	394	G	N3-C2-N2	-6.26	115.52	119.90
1	AA	790	A	O4'-C1'-C2'	-6.26	99.54	105.80
25	BA	80	U	C4-C5-C6	6.26	123.46	119.70
26	BB	702	U	N1-C2-N3	6.26	118.66	114.90
26	BB	720	U	O4'-C1'-N1	6.26	113.21	108.20
26	BB	1216	G	N1-C2-N2	6.26	121.83	116.20
26	BB	1374	G	C6-C5-N7	6.26	134.16	130.40
26	BB	1695	G	C5-C6-N1	6.26	114.63	111.50
26	BB	1743	G	C4'-C3'-C2'	-6.26	96.34	102.60
26	BB	2056	G	N3-C4-C5	-6.26	125.47	128.60
26	BB	2632	A	N1-C6-N6	-6.26	114.84	118.60
26	BB	2790	U	N3-C4-C5	-6.26	110.84	114.60
30	BF	199	MET	CG-SD-CE	-6.26	90.19	100.20
1	AA	147	G	C8-N9-C4	-6.26	103.90	106.40
1	AA	1541	U	N3-C2-O2	-6.26	117.82	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	44	A	C2-N3-C4	6.26	113.73	110.60
26	BB	103	A	C1'-O4'-C4'	6.26	114.91	109.90
26	BB	1026	G	N1-C6-O6	-6.26	116.14	119.90
26	BB	1055	G	N7-C8-N9	6.26	116.23	113.10
26	BB	1378	A	C3'-C2'-C1'	-6.26	96.49	101.50
26	BB	1586	A	N9-C4-C5	6.26	108.30	105.80
1	AA	183	C	C3'-C2'-C1'	6.26	106.50	101.50
1	AA	276	G	N1-C2-N2	6.26	121.83	116.20
1	AA	642	A	N9-C4-C5	-6.26	103.30	105.80
1	AA	1054	C	P-O3'-C3'	6.26	127.21	119.70
1	AA	1141	C	N3-C4-C5	6.26	124.40	121.90
1	AA	1152	A	C5-N7-C8	6.26	107.03	103.90
2	AB	63	C	N1-C2-O2	-6.26	115.15	118.90
26	BB	993	G	N3-C4-C5	6.26	131.73	128.60
26	BB	1202	G	N7-C8-N9	-6.26	109.97	113.10
26	BB	1538	G	C6-N1-C2	-6.26	121.35	125.10
26	BB	1701	A	N3-C4-N9	6.26	132.41	127.40
26	BB	1853	A	C5'-C4'-O4'	6.26	116.61	109.10
26	BB	2253	G	N9-C4-C5	6.26	107.90	105.40
26	BB	2793	C	P-O3'-C3'	6.26	127.21	119.70
1	AA	401	C	N1-C2-O2	-6.25	115.15	118.90
1	AA	1351	U	C5-C4-O4	6.25	129.65	125.90
26	BB	1	G	C6-N1-C2	-6.25	121.35	125.10
26	BB	1721	G	C8-N9-C1'	6.25	135.13	127.00
26	BB	1854	A	N3-C4-C5	6.25	131.18	126.80
26	BB	1877	A	C4'-C3'-C2'	-6.25	96.34	102.60
26	BB	2399	G	C5'-C4'-C3'	-6.25	105.99	116.00
1	AA	393	A	O4'-C1'-N9	6.25	113.20	108.20
1	AA	1477	U	C1'-O4'-C4'	6.25	114.90	109.90
4	AD	36	A	C4-C5-C6	-6.25	113.87	117.00
4	AD	46	G	C5-C6-O6	-6.25	124.85	128.60
16	AP	97	ARG	NE-CZ-NH2	-6.25	117.17	120.30
26	BB	133	U	C5-C6-N1	-6.25	119.57	122.70
26	BB	242	G	C5-N7-C8	-6.25	101.17	104.30
26	BB	906	U	N3-C2-O2	-6.25	117.82	122.20
26	BB	976	G	C2-N3-C4	-6.25	108.77	111.90
26	BB	1087	G	C8-N9-C4	-6.25	103.90	106.40
37	BM	23	LYS	N-CA-CB	6.25	121.86	110.60
1	AA	167	A	N7-C8-N9	6.25	116.92	113.80
1	AA	325	A	C4-C5-C6	-6.25	113.87	117.00
1	AA	937	A	P-O3'-C3'	6.25	127.20	119.70
1	AA	958	A	C4-C5-C6	-6.25	113.87	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1291	U	C2-N3-C4	-6.25	123.25	127.00
25	BA	2	G	C5-N7-C8	6.25	107.43	104.30
26	BB	486	C	N3-C2-O2	-6.25	117.52	121.90
26	BB	1830	C	C4-C5-C6	-6.25	114.27	117.40
26	BB	1949	G	C6-N1-C2	-6.25	121.35	125.10
26	BB	2883	A	C3'-C2'-C1'	6.25	106.50	101.50
1	AA	163	C	O4'-C1'-N1	6.25	113.20	108.20
1	AA	297	G	N7-C8-N9	6.25	116.22	113.10
1	AA	1071	C	N3-C4-N4	-6.25	113.62	118.00
1	AA	1415	G	C5-C6-O6	6.25	132.35	128.60
13	AM	19	ASP	CB-CG-OD1	-6.25	112.67	118.30
26	BB	95	A	C5-N7-C8	-6.25	100.78	103.90
26	BB	294	A	C1'-O4'-C4'	6.25	114.90	109.90
26	BB	672	C	C5-C4-N4	-6.25	115.83	120.20
26	BB	673	C	C5-C4-N4	-6.25	115.83	120.20
26	BB	1794	A	C1'-O4'-C4'	-6.25	104.90	109.90
26	BB	2793	C	C5'-C4'-O4'	-6.25	101.60	109.10
1	AA	308	C	N1-C2-O2	6.25	122.65	118.90
1	AA	500	G	C4-C5-N7	-6.25	108.30	110.80
1	AA	987	G	C6-N1-C2	-6.25	121.35	125.10
3	AC	23	C	N1-C2-O2	6.25	122.65	118.90
26	BB	288	U	C4-C5-C6	6.25	123.45	119.70
26	BB	972	A	N7-C8-N9	-6.25	110.68	113.80
26	BB	1743	G	P-O3'-C3'	6.25	127.20	119.70
26	BB	2088	A	C5-C6-N1	-6.25	114.58	117.70
26	BB	2311	A	C6-C5-N7	6.25	136.67	132.30
26	BB	2470	G	C4-C5-N7	-6.25	108.30	110.80
1	AA	1115	U	N3-C4-C5	-6.25	110.85	114.60
26	BB	283	G	C6-N1-C2	-6.25	121.35	125.10
26	BB	881	G	C8-N9-C4	-6.25	103.90	106.40
26	BB	1151	A	C4-C5-C6	-6.25	113.88	117.00
26	BB	1179	G	N3-C4-C5	-6.25	125.48	128.60
26	BB	1662	U	N1-C2-N3	6.25	118.65	114.90
26	BB	2891	U	N3-C4-O4	6.25	123.77	119.40
37	BM	43	ILE	CA-CB-CG1	6.25	122.87	111.00
1	AA	656	G	C2-N3-C4	-6.25	108.78	111.90
2	AB	36	A	C4-C5-N7	-6.25	107.58	110.70
26	BB	2731	G	O4'-C1'-C2'	6.25	113.22	107.60
1	AA	50	A	C5'-C4'-O4'	-6.24	101.61	109.10
1	AA	333	U	C1'-O4'-C4'	6.24	114.89	109.90
1	AA	373	A	N7-C8-N9	6.24	116.92	113.80
1	AA	1093	A	C2-N3-C4	6.24	113.72	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	56	C	C6-N1-C2	6.24	122.80	120.30
4	AD	22	A	C5-C6-N1	6.24	120.82	117.70
4	AD	73	A	C5'-C4'-C3'	-6.24	106.01	116.00
9	AI	110	ARG	NE-CZ-NH2	-6.24	117.18	120.30
25	BA	116	G	C4-C5-C6	6.24	122.55	118.80
26	BB	37	C	N3-C2-O2	-6.24	117.53	121.90
26	BB	292	U	C4'-C3'-C2'	-6.24	96.36	102.60
26	BB	649	G	C4-C5-C6	-6.24	115.05	118.80
26	BB	2474	U	O4'-C1'-N1	6.24	113.19	108.20
26	BB	2556	C	C1'-O4'-C4'	-6.24	104.91	109.90
26	BB	2826	A	O4'-C1'-N9	6.24	113.19	108.20
1	AA	215	C	P-O3'-C3'	6.24	127.19	119.70
1	AA	280	C	N1-C2-N3	-6.24	114.83	119.20
1	AA	579	A	C5-N7-C8	6.24	107.02	103.90
1	AA	768	A	O4'-C1'-N9	6.24	113.19	108.20
26	BB	1634	A	O4'-C4'-C3'	6.24	111.09	106.10
26	BB	1728	C	N3-C2-O2	-6.24	117.53	121.90
26	BB	2021	C	N1-C2-N3	-6.24	114.83	119.20
26	BB	2328	A	C5'-C4'-O4'	6.24	116.59	109.10
26	BB	2749	A	P-O3'-C3'	6.24	127.19	119.70
53	B2	59	ARG	NE-CZ-NH2	6.24	123.42	120.30
1	AA	249	U	C2-N3-C4	-6.24	123.26	127.00
1	AA	1234	C	N3-C2-O2	-6.24	117.53	121.90
4	AD	15	G	N1-C6-O6	-6.24	116.16	119.90
25	BA	86	G	N3-C4-C5	-6.24	125.48	128.60
26	BB	949	G	C8-N9-C4	-6.24	103.90	106.40
26	BB	1379	U	C5'-C4'-O4'	6.24	116.59	109.10
26	BB	1475	G	C5-C6-N1	-6.24	108.38	111.50
26	BB	1574	C	C5'-C4'-O4'	6.24	116.59	109.10
26	BB	2128	G	C1'-O4'-C4'	6.24	114.89	109.90
26	BB	2600	A	C5-C6-N6	6.24	128.69	123.70
1	AA	7	A	N3-C4-N9	-6.24	122.41	127.40
1	AA	144	G	C6-C5-N7	6.24	134.14	130.40
25	BA	100	G	C4'-C3'-C2'	-6.24	96.36	102.60
26	BB	215	G	O4'-C1'-N9	6.24	113.19	108.20
26	BB	356	G	N1-C2-N2	-6.24	110.58	116.20
26	BB	622	G	C8-N9-C4	-6.24	103.90	106.40
26	BB	862	G	P-O3'-C3'	6.24	127.19	119.70
26	BB	1416	G	C5-C6-O6	-6.24	124.86	128.60
26	BB	1483	G	C3'-C2'-C1'	6.24	106.49	101.50
26	BB	1497	U	N1-C2-O2	6.24	127.17	122.80
26	BB	1576	U	C3'-C2'-C1'	-6.24	96.51	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1649	G	C4-C5-N7	6.24	113.30	110.80
26	BB	1722	A	C5-C6-N1	6.24	120.82	117.70
26	BB	2080	A	N1-C2-N3	-6.24	126.18	129.30
26	BB	2837	A	C4-C5-N7	6.24	113.82	110.70
1	AA	52	C	C5'-C4'-C3'	-6.24	106.02	116.00
1	AA	196	A	C5'-C4'-C3'	-6.24	106.02	116.00
1	AA	712	A	C4'-C3'-C2'	-6.24	96.36	102.60
1	AA	957	U	O4'-C1'-N1	-6.24	103.21	108.20
26	BB	921	C	C5-C4-N4	-6.24	115.83	120.20
26	BB	1205	A	C4-C5-N7	-6.24	107.58	110.70
26	BB	1294	U	N1-C1'-C2'	-6.24	105.14	112.00
26	BB	1528	A	C5-C6-N1	6.24	120.82	117.70
26	BB	2440	C	P-O3'-C3'	6.24	127.18	119.70
26	BB	2707	U	C5-C6-N1	-6.24	119.58	122.70
1	AA	191	G	C5-C6-O6	-6.24	124.86	128.60
1	AA	374	A	C6-N1-C2	6.24	122.34	118.60
1	AA	1150	A	O4'-C1'-N9	6.24	113.19	108.20
1	AA	1358	U	C6-N1-C2	-6.24	117.26	121.00
1	AA	1466	C	N3-C4-N4	6.24	122.36	118.00
26	BB	29	U	N1-C2-N3	6.24	118.64	114.90
26	BB	388	G	C3'-C2'-C1'	-6.24	96.51	101.50
26	BB	544	C	P-O3'-C3'	6.24	127.18	119.70
26	BB	944	C	N1-C2-O2	6.24	122.64	118.90
26	BB	1145	C	C6-N1-C2	-6.24	117.81	120.30
26	BB	1275	A	N3-C4-C5	-6.24	122.44	126.80
26	BB	1276	A	P-O3'-C3'	6.24	127.18	119.70
26	BB	1767	G	N9-C4-C5	6.24	107.89	105.40
26	BB	1902	C	C5'-C4'-O4'	-6.24	101.62	109.10
26	BB	2079	U	C5'-C4'-O4'	6.24	116.58	109.10
26	BB	2176	A	O4'-C4'-C3'	6.24	111.09	106.10
26	BB	2674	G	C1'-O4'-C4'	-6.24	104.91	109.90
26	BB	2846	G	N3-C4-N9	6.24	129.74	126.00
26	BB	2904	U	C5'-C4'-O4'	6.24	116.58	109.10
1	AA	651	C	C5'-C4'-C3'	-6.23	106.03	116.00
1	AA	1473	G	N9-C4-C5	6.23	107.89	105.40
26	BB	616	A	C5-C6-N6	-6.23	118.71	123.70
26	BB	1767	G	C2-N3-C4	-6.23	108.78	111.90
1	AA	241	G	N3-C2-N2	-6.23	115.54	119.90
1	AA	489	C	P-O3'-C3'	6.23	127.18	119.70
1	AA	524	G	C5-C6-N1	6.23	114.62	111.50
1	AA	1052	U	N1-C2-N3	6.23	118.64	114.90
1	AA	1106	G	N1-C6-O6	6.23	123.64	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1187	G	C6-N1-C2	-6.23	121.36	125.10
3	AC	14	G	C5-C6-N1	6.23	114.62	111.50
25	BA	85	G	C5-C6-N1	-6.23	108.38	111.50
26	BB	83	A	C8-N9-C4	-6.23	103.31	105.80
26	BB	95	A	N1-C6-N6	-6.23	114.86	118.60
26	BB	1771	C	C1'-O4'-C4'	-6.23	104.91	109.90
26	BB	2264	C	C5'-C4'-O4'	6.23	116.58	109.10
26	BB	2342	C	N3-C2-O2	-6.23	117.54	121.90
26	BB	2578	G	O5'-P-OP2	-6.23	100.09	105.70
26	BB	2824	C	C1'-O4'-C4'	-6.23	104.91	109.90
1	AA	80	A	C1'-O4'-C4'	6.23	114.89	109.90
1	AA	140	U	C5'-C4'-O4'	6.23	116.58	109.10
1	AA	1148	U	C6-N1-C2	-6.23	117.26	121.00
1	AA	1157	A	N1-C6-N6	-6.23	114.86	118.60
1	AA	1382	C	N3-C2-O2	-6.23	117.54	121.90
25	BA	103	U	N3-C2-O2	6.23	126.56	122.20
26	BB	214	G	C4-C5-C6	6.23	122.54	118.80
26	BB	555	G	N7-C8-N9	-6.23	109.98	113.10
26	BB	701	G	N3-C2-N2	-6.23	115.54	119.90
26	BB	780	G	N3-C4-C5	-6.23	125.48	128.60
26	BB	1079	C	N3-C2-O2	6.23	126.26	121.90
26	BB	1164	C	C3'-C2'-C1'	6.23	106.48	101.50
26	BB	1831	G	C5'-C4'-C3'	-6.23	106.03	116.00
26	BB	2806	C	C5-C6-N1	6.23	124.11	121.00
26	BB	2857	G	C2-N3-C4	-6.23	108.78	111.90
26	BB	2890	G	C4'-C3'-C2'	-6.23	96.37	102.60
28	BD	176	ARG	NE-CZ-NH2	6.23	123.42	120.30
32	BH	162	ARG	NE-CZ-NH2	6.23	123.42	120.30
1	AA	24	U	C6-N1-C1'	-6.23	112.48	121.20
26	BB	853	C	C2-N1-C1'	-6.23	111.95	118.80
26	BB	996	A	P-O3'-C3'	6.23	127.17	119.70
26	BB	1304	A	N7-C8-N9	6.23	116.91	113.80
26	BB	1582	C	C6-N1-C2	-6.23	117.81	120.30
1	AA	432	A	C4-C5-C6	-6.23	113.89	117.00
1	AA	608	A	N7-C8-N9	6.23	116.91	113.80
1	AA	979	C	N3-C4-N4	-6.23	113.64	118.00
1	AA	1066	C	C3'-C2'-C1'	6.23	106.48	101.50
1	AA	1155	A	C8-N9-C4	-6.23	103.31	105.80
1	AA	1295	U	C5-C6-N1	-6.23	119.59	122.70
1	AA	1436	U	N3-C4-O4	6.23	123.76	119.40
26	BB	198	C	N3-C4-C5	-6.23	119.41	121.90
26	BB	356	G	N3-C4-N9	6.23	129.74	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1331	G	C4'-C3'-C2'	-6.23	96.37	102.60
26	BB	1591	A	C4-C5-N7	-6.23	107.59	110.70
26	BB	1668	A	C3'-C2'-C1'	-6.23	96.52	101.50
26	BB	1701	A	C5'-C4'-C3'	-6.23	106.04	116.00
26	BB	1986	C	N3-C4-N4	6.23	122.36	118.00
26	BB	2100	G	C4-C5-C6	-6.23	115.06	118.80
26	BB	2226	C	C4-C5-C6	-6.23	114.29	117.40
26	BB	2699	C	N1-C2-N3	-6.23	114.84	119.20
31	BG	142	TYR	CG-CD2-CE2	-6.23	116.32	121.30
1	AA	183	C	C5-C4-N4	6.23	124.56	120.20
1	AA	193	C	O4'-C1'-N1	6.23	113.18	108.20
1	AA	490	C	C5'-C4'-O4'	6.23	116.57	109.10
1	AA	553	A	C5-C6-N1	6.23	120.81	117.70
1	AA	897	C	N1-C2-N3	-6.23	114.84	119.20
1	AA	1414	U	C4-C5-C6	-6.23	115.96	119.70
2	AB	11	U	C4-C5-C6	6.23	123.44	119.70
25	BA	100	G	C5-N7-C8	-6.23	101.19	104.30
1	AA	104	G	N1-C6-O6	6.22	123.63	119.90
1	AA	120	A	C4-C5-C6	6.22	120.11	117.00
1	AA	287	U	N1-C1'-C2'	-6.22	105.15	112.00
1	AA	1357	A	C4-C5-N7	-6.22	107.59	110.70
25	BA	10	G	O4'-C1'-N9	6.22	113.18	108.20
26	BB	933	A	C5-C6-N1	-6.22	114.59	117.70
26	BB	983	A	C3'-C2'-C1'	6.22	106.48	101.50
26	BB	2032	G	N3-C4-N9	6.22	129.74	126.00
26	BB	2037	A	N1-C2-N3	-6.22	126.19	129.30
26	BB	2274	A	N9-C4-C5	6.22	108.29	105.80
26	BB	2881	U	N3-C4-C5	6.22	118.33	114.60
1	AA	256	U	N3-C2-O2	-6.22	117.84	122.20
1	AA	587	G	N9-C4-C5	6.22	107.89	105.40
1	AA	613	C	C2-N3-C4	6.22	123.01	119.90
1	AA	632	U	N3-C4-O4	6.22	123.76	119.40
1	AA	1488	G	C8-N9-C4	6.22	108.89	106.40
26	BB	288	U	N3-C2-O2	6.22	126.56	122.20
26	BB	515	A	C6-C5-N7	-6.22	127.94	132.30
26	BB	1038	G	O4'-C1'-N9	6.22	113.18	108.20
26	BB	1074	G	C4-C5-N7	-6.22	108.31	110.80
26	BB	1574	C	N3-C4-C5	-6.22	119.41	121.90
26	BB	1930	G	C8-N9-C4	-6.22	103.91	106.40
26	BB	2179	C	C2-N3-C4	6.22	123.01	119.90
26	BB	2198	A	C6-C5-N7	6.22	136.66	132.30
26	BB	2549	G	C4'-C3'-C2'	-6.22	96.38	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	207	C	C6-N1-C1'	6.22	128.26	120.80
1	AA	1093	A	C5-C6-N1	6.22	120.81	117.70
1	AA	1426	G	C2-N3-C4	6.22	115.01	111.90
7	AG	55	ARG	NE-CZ-NH1	6.22	123.41	120.30
26	BB	649	G	C2-N3-C4	6.22	115.01	111.90
26	BB	791	C	C6-N1-C2	-6.22	117.81	120.30
26	BB	1416	G	N1-C2-N3	-6.22	120.17	123.90
26	BB	2557	G	C5-C6-N1	6.22	114.61	111.50
26	BB	2642	G	N3-C4-C5	-6.22	125.49	128.60
1	AA	17	U	N3-C4-O4	6.22	123.75	119.40
1	AA	201	G	N9-C4-C5	-6.22	102.91	105.40
1	AA	515	G	C2-N3-C4	6.22	115.01	111.90
1	AA	867	G	C4-C5-C6	6.22	122.53	118.80
1	AA	950	U	O4'-C1'-N1	6.22	113.18	108.20
1	AA	993	G	O4'-C1'-N9	6.22	113.18	108.20
1	AA	1169	A	C2-N3-C4	-6.22	107.49	110.60
1	AA	1487	G	N1-C6-O6	6.22	123.63	119.90
4	AD	43	G	C4-C5-C6	-6.22	115.07	118.80
26	BB	12	U	N1-C2-O2	6.22	127.15	122.80
26	BB	415	A	C4-C5-C6	-6.22	113.89	117.00
26	BB	479	A	P-O3'-C3'	6.22	127.17	119.70
26	BB	895	U	C5'-C4'-C3'	-6.22	106.05	116.00
26	BB	1472	C	C6-N1-C2	-6.22	117.81	120.30
26	BB	1487	U	N3-C4-O4	6.22	123.75	119.40
26	BB	1567	G	C1'-O4'-C4'	-6.22	104.92	109.90
26	BB	1580	A	C5'-C4'-C3'	-6.22	106.05	116.00
26	BB	1790	C	N1-C2-O2	6.22	122.63	118.90
26	BB	1808	A	N1-C2-N3	6.22	132.41	129.30
26	BB	1867	G	C5-N7-C8	-6.22	101.19	104.30
26	BB	2349	G	C4'-C3'-C2'	-6.22	96.38	102.60
1	AA	196	A	C3'-C2'-C1'	6.22	106.47	101.50
1	AA	1540	U	C4-C5-C6	6.22	123.43	119.70
26	BB	35	G	N7-C8-N9	6.22	116.21	113.10
26	BB	1026	G	C5'-C4'-O4'	6.22	116.56	109.10
26	BB	1139	G	C2-N3-C4	6.22	115.01	111.90
26	BB	1280	G	C6-N1-C2	-6.22	121.37	125.10
26	BB	1766	G	C5-C6-N1	6.22	114.61	111.50
26	BB	2011	U	C2-N3-C4	-6.22	123.27	127.00
26	BB	2180	U	N3-C2-O2	-6.22	117.85	122.20
26	BB	2820	A	C5-C6-N6	-6.22	118.72	123.70
26	BB	2889	C	N1-C2-N3	-6.22	114.85	119.20
1	AA	105	G	O4'-C1'-N9	6.22	113.17	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	915	A	N7-C8-N9	6.22	116.91	113.80
1	AA	1540	U	N3-C2-O2	-6.22	117.85	122.20
26	BB	244	A	N1-C2-N3	-6.22	126.19	129.30
26	BB	314	C	N3-C4-C5	-6.22	119.41	121.90
26	BB	780	G	C4'-C3'-C2'	-6.22	96.38	102.60
26	BB	992	C	N1-C2-O2	6.22	122.63	118.90
26	BB	1055	G	N3-C4-C5	-6.22	125.49	128.60
26	BB	1142	A	O3'-P-O5'	6.22	115.81	104.00
26	BB	1185	G	C5-N7-C8	6.22	107.41	104.30
26	BB	1922	G	C5-C6-O6	6.22	132.33	128.60
26	BB	2190	G	N3-C2-N2	-6.22	115.55	119.90
1	AA	243	A	C5-N7-C8	-6.21	100.79	103.90
1	AA	469	C	N1-C1'-C2'	-6.21	105.17	112.00
1	AA	514	C	C4'-C3'-C2'	-6.21	96.39	102.60
1	AA	620	C	C5'-C4'-O4'	6.21	116.56	109.10
26	BB	396	G	N9-C4-C5	6.21	107.89	105.40
26	BB	1927	A	C1'-O4'-C4'	-6.21	104.93	109.90
26	BB	2091	C	N3-C4-N4	6.21	122.35	118.00
26	BB	2255	G	C5-N7-C8	6.21	107.41	104.30
26	BB	2308	G	O4'-C4'-C3'	6.21	111.07	106.10
26	BB	2352	A	O4'-C1'-N9	6.21	113.17	108.20
26	BB	2900	A	N9-C4-C5	-6.21	103.31	105.80
50	BZ	67	LEU	CB-CG-CD1	6.21	121.57	111.00
1	AA	80	A	C3'-C2'-C1'	6.21	106.47	101.50
1	AA	453	G	C5-C6-N1	6.21	114.61	111.50
1	AA	515	G	N1-C6-O6	6.21	123.63	119.90
1	AA	726	C	N3-C4-N4	6.21	122.35	118.00
1	AA	845	A	N9-C1'-C2'	-6.21	105.17	112.00
1	AA	1442	G	O4'-C1'-N9	6.21	113.17	108.20
26	BB	1604	C	O4'-C1'-N1	6.21	113.17	108.20
26	BB	2372	U	C1'-O4'-C4'	6.21	114.87	109.90
1	AA	315	A	O4'-C1'-N9	6.21	113.17	108.20
1	AA	320	A	C1'-O4'-C4'	-6.21	104.93	109.90
1	AA	443	C	C1'-O4'-C4'	-6.21	104.93	109.90
1	AA	692	U	C4-C5-C6	6.21	123.43	119.70
1	AA	717	U	C6-N1-C2	-6.21	117.27	121.00
25	BA	50	A	O4'-C1'-N9	6.21	113.17	108.20
25	BA	105	G	N9-C4-C5	6.21	107.89	105.40
26	BB	174	U	C5-C6-N1	-6.21	119.59	122.70
26	BB	488	G	C5-C6-N1	6.21	114.61	111.50
26	BB	675	A	O4'-C4'-C3'	6.21	111.07	106.10
26	BB	939	G	C5-C6-N1	6.21	114.61	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1945	G	C5-C6-O6	-6.21	124.87	128.60
26	BB	2144	G	N7-C8-N9	6.21	116.21	113.10
26	BB	2274	A	O4'-C4'-C3'	6.21	111.07	106.10
26	BB	2761	A	N7-C8-N9	-6.21	110.69	113.80
33	BI	98	ASP	CB-CG-OD2	6.21	123.89	118.30
1	AA	48	C	N3-C2-O2	-6.21	117.55	121.90
1	AA	206	C	P-O3'-C3'	6.21	127.15	119.70
1	AA	506	G	O4'-C1'-C2'	6.21	113.19	107.60
1	AA	600	A	N1-C2-N3	-6.21	126.19	129.30
1	AA	1237	C	N3-C4-N4	6.21	122.35	118.00
2	AB	53	G	C6-N1-C2	-6.21	121.37	125.10
26	BB	1569	A	N7-C8-N9	6.21	116.91	113.80
26	BB	1823	G	N3-C4-C5	-6.21	125.50	128.60
26	BB	2284	A	C5-C6-N6	6.21	128.67	123.70
1	AA	180	U	C5'-C4'-O4'	6.21	116.55	109.10
1	AA	361	G	N9-C1'-C2'	-6.21	105.17	112.00
1	AA	432	A	C5-N7-C8	-6.21	100.80	103.90
1	AA	521	G	C5-C6-O6	6.21	132.32	128.60
1	AA	1143	G	C5'-C4'-O4'	6.21	116.55	109.10
3	AC	20	G	C5-C6-N1	6.21	114.61	111.50
5	AE	122	ASP	CB-CG-OD2	-6.21	112.71	118.30
25	BA	116	G	N1-C6-O6	6.21	123.62	119.90
26	BB	1313	U	C5-C6-N1	6.21	125.80	122.70
26	BB	1434	A	C4'-C3'-C2'	-6.21	96.39	102.60
26	BB	1884	G	N1-C6-O6	-6.21	116.17	119.90
26	BB	2236	U	C6-N1-C2	-6.21	117.27	121.00
26	BB	2889	C	C6-N1-C2	-6.21	117.82	120.30
28	BD	166	ARG	NE-CZ-NH2	-6.21	117.19	120.30
1	AA	358	U	C1'-O4'-C4'	-6.21	104.93	109.90
1	AA	753	A	N3-C4-C5	-6.21	122.45	126.80
1	AA	1377	A	C5-N7-C8	-6.21	100.80	103.90
1	AA	1400	C	N1-C2-O2	6.21	122.62	118.90
16	AP	85	TYR	CG-CD2-CE2	-6.21	116.33	121.30
26	BB	213	A	N1-C2-N3	-6.21	126.20	129.30
26	BB	636	G	N3-C4-C5	-6.21	125.50	128.60
26	BB	855	G	C5-C6-O6	-6.21	124.88	128.60
26	BB	1022	G	C8-N9-C4	-6.21	103.92	106.40
26	BB	1072	C	N3-C4-C5	6.21	124.38	121.90
26	BB	1306	C	N3-C2-O2	-6.21	117.56	121.90
26	BB	1327	A	C5-C6-N1	-6.21	114.60	117.70
26	BB	1520	U	C4'-C3'-C2'	-6.21	96.39	102.60
26	BB	2319	G	N9-C4-C5	-6.21	102.92	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2370	G	C4'-C3'-C2'	-6.21	96.39	102.60
1	AA	476	U	C3'-C2'-C1'	6.21	106.46	101.50
1	AA	631	C	C6-N1-C2	-6.21	117.82	120.30
26	BB	1754	A	N1-C6-N6	6.21	122.32	118.60
26	BB	1803	A	N3-C4-N9	-6.21	122.44	127.40
26	BB	2048	G	C6-C5-N7	-6.21	126.68	130.40
26	BB	2583	G	O4'-C1'-N9	6.21	113.16	108.20
1	AA	509	A	C4-C5-C6	-6.20	113.90	117.00
1	AA	993	G	O5'-P-OP2	-6.20	100.12	105.70
1	AA	1464	U	C5-C4-O4	6.20	129.62	125.90
1	AA	1525	G	C2-N3-C4	6.20	115.00	111.90
26	BB	967	U	C4-C5-C6	6.20	123.42	119.70
26	BB	2080	A	C4'-C3'-C2'	-6.20	96.40	102.60
26	BB	2109	U	N1-C2-N3	-6.20	111.18	114.90
1	AA	179	A	C6-C5-N7	6.20	136.64	132.30
26	BB	311	A	C8-N9-C4	-6.20	103.32	105.80
26	BB	1640	A	N3-C4-N9	6.20	132.36	127.40
26	BB	2479	U	N1-C1'-C2'	6.20	122.06	114.00
1	AA	248	C	C5-C6-N1	-6.20	117.90	121.00
1	AA	257	G	C4'-C3'-C2'	-6.20	96.40	102.60
1	AA	552	U	C6-N1-C2	-6.20	117.28	121.00
1	AA	644	U	C2-N3-C4	-6.20	123.28	127.00
1	AA	683	G	N7-C8-N9	6.20	116.20	113.10
1	AA	780	A	N7-C8-N9	-6.20	110.70	113.80
1	AA	884	U	C1'-O4'-C4'	-6.20	104.94	109.90
1	AA	1332	A	N7-C8-N9	6.20	116.90	113.80
8	AH	93	VAL	CA-CB-CG2	6.20	120.20	110.90
25	BA	9	G	C4-C5-N7	-6.20	108.32	110.80
26	BB	205	G	O5'-P-OP2	-6.20	100.12	105.70
26	BB	810	U	N1-C2-O2	6.20	127.14	122.80
26	BB	1177	G	C5-C6-N1	6.20	114.60	111.50
46	BV	77	ARG	NE-CZ-NH1	6.20	123.40	120.30
1	AA	182	A	C1'-O4'-C4'	-6.20	104.94	109.90
1	AA	761	G	C2-N3-C4	6.20	115.00	111.90
1	AA	1014	A	N3-C4-C5	-6.20	122.46	126.80
1	AA	1046	A	C4-C5-N7	-6.20	107.60	110.70
1	AA	1208	C	C2-N1-C1'	-6.20	111.98	118.80
1	AA	1511	G	N3-C4-C5	-6.20	125.50	128.60
2	AB	24	G	N9-C4-C5	-6.20	102.92	105.40
19	AS	23	ASP	CB-CG-OD2	-6.20	112.72	118.30
26	BB	70	G	OP1-P-OP2	-6.20	110.30	119.60
26	BB	80	G	C4'-C3'-C2'	-6.20	96.40	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	94	A	N9-C4-C5	6.20	108.28	105.80
26	BB	946	C	C1'-O4'-C4'	6.20	114.86	109.90
26	BB	1266	G	C3'-C2'-C1'	-6.20	96.54	101.50
26	BB	2073	C	N3-C4-C5	-6.20	119.42	121.90
26	BB	2092	U	O4'-C1'-C2'	-6.20	99.60	105.80
26	BB	2564	A	C2-N3-C4	6.20	113.70	110.60
1	AA	59	A	C6-N1-C2	6.20	122.32	118.60
1	AA	721	G	N3-C2-N2	-6.20	115.56	119.90
26	BB	520	G	C1'-O4'-C4'	-6.20	104.94	109.90
26	BB	1238	G	C4-C5-N7	6.20	113.28	110.80
1	AA	31	G	C1'-O4'-C4'	6.20	114.86	109.90
1	AA	211	G	C6-C5-N7	-6.20	126.68	130.40
1	AA	222	C	N3-C2-O2	-6.20	117.56	121.90
1	AA	434	U	C2-N3-C4	-6.20	123.28	127.00
1	AA	857	C	C5-C4-N4	-6.20	115.86	120.20
2	AB	28	C	C2-N3-C4	-6.20	116.80	119.90
26	BB	285	G	C5-C6-O6	-6.20	124.88	128.60
26	BB	725	G	O4'-C1'-N9	6.20	113.16	108.20
26	BB	2050	C	N1-C2-O2	6.20	122.62	118.90
26	BB	2091	C	C5'-C4'-O4'	6.20	116.53	109.10
26	BB	2119	A	C5-C6-N1	6.20	120.80	117.70
26	BB	2581	G	N1-C2-N3	6.20	127.62	123.90
26	BB	2607	G	N3-C4-C5	-6.20	125.50	128.60
26	BB	2742	G	N1-C2-N3	6.20	127.62	123.90
26	BB	2771	C	C2-N3-C4	-6.20	116.80	119.90
1	AA	59	A	C6-C5-N7	6.19	136.64	132.30
26	BB	991	C	C2-N3-C4	6.19	123.00	119.90
26	BB	1902	C	C6-N1-C2	-6.19	117.82	120.30
26	BB	2067	G	N9-C1'-C2'	-6.19	105.19	112.00
1	AA	371	A	N9-C4-C5	6.19	108.28	105.80
1	AA	474	G	C4-C5-N7	-6.19	108.32	110.80
1	AA	584	G	C4-C5-C6	6.19	122.52	118.80
1	AA	607	A	C5-N7-C8	-6.19	100.80	103.90
1	AA	1388	C	C5-C4-N4	-6.19	115.87	120.20
10	AJ	61	PHE	CB-CG-CD2	-6.19	116.47	120.80
25	BA	32	U	N1-C2-N3	6.19	118.62	114.90
26	BB	262	A	C5'-C4'-O4'	6.19	116.53	109.10
26	BB	559	G	N3-C4-N9	6.19	129.72	126.00
26	BB	694	U	P-O3'-C3'	6.19	127.13	119.70
26	BB	872	U	C4'-C3'-C2'	-6.19	96.41	102.60
26	BB	1505	A	C5'-C4'-C3'	-6.19	106.09	116.00
26	BB	1686	C	C2-N3-C4	-6.19	116.80	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2418	A	C3'-C2'-C1'	6.19	106.45	101.50
26	BB	2619	C	O5'-P-OP2	-6.19	100.13	105.70
26	BB	2874	C	O4'-C1'-N1	6.19	113.16	108.20
1	AA	31	G	C6-C5-N7	-6.19	126.69	130.40
1	AA	116	A	C3'-C2'-C1'	-6.19	96.55	101.50
1	AA	128	G	N3-C4-N9	6.19	129.71	126.00
1	AA	914	A	C4-C5-C6	-6.19	113.91	117.00
1	AA	1140	C	C6-N1-C2	-6.19	117.82	120.30
1	AA	1198	G	C5'-C4'-O4'	6.19	116.53	109.10
1	AA	1468	A	P-O3'-C3'	6.19	127.13	119.70
5	AE	221	ARG	NE-CZ-NH2	-6.19	117.20	120.30
25	BA	16	G	C1'-O4'-C4'	-6.19	104.95	109.90
26	BB	132	G	C1'-O4'-C4'	6.19	114.85	109.90
26	BB	168	G	C4-C5-N7	6.19	113.28	110.80
26	BB	479	A	C5-N7-C8	6.19	107.00	103.90
26	BB	524	G	N3-C2-N2	-6.19	115.57	119.90
26	BB	1216	G	N1-C6-O6	6.19	123.61	119.90
26	BB	1427	A	N9-C1'-C2'	6.19	122.05	114.00
26	BB	1595	C	C4-C5-C6	-6.19	114.30	117.40
26	BB	2029	G	N9-C1'-C2'	-6.19	105.19	112.00
26	BB	2059	A	O5'-C5'-C4'	-6.19	99.94	111.70
26	BB	2213	U	N1-C2-N3	6.19	118.61	114.90
26	BB	2663	G	C3'-C2'-C1'	-6.19	96.55	101.50
1	AA	378	G	C4-C5-N7	6.19	113.28	110.80
1	AA	408	A	C5-N7-C8	-6.19	100.81	103.90
1	AA	420	U	N1-C2-O2	6.19	127.13	122.80
1	AA	941	G	C5'-C4'-C3'	-6.19	106.10	116.00
1	AA	997	U	C6-N1-C2	-6.19	117.29	121.00
24	AX	54	ARG	NE-CZ-NH2	-6.19	117.20	120.30
26	BB	93	G	C4-C5-N7	-6.19	108.32	110.80
26	BB	1307	A	C5-C6-N1	6.19	120.79	117.70
26	BB	1801	A	C6-N1-C2	-6.19	114.89	118.60
26	BB	2501	C	C3'-C2'-C1'	6.19	106.45	101.50
26	BB	2619	C	C5-C6-N1	-6.19	117.91	121.00
26	BB	2732	G	C4-C5-C6	6.19	122.51	118.80
31	BG	109	ARG	CD-NE-CZ	6.19	132.26	123.60
49	BY	59	PHE	CB-CG-CD2	-6.19	116.47	120.80
1	AA	74	A	C5-C6-N1	6.19	120.79	117.70
14	AN	76	TYR	CG-CD2-CE2	-6.19	116.35	121.30
26	BB	801	G	O4'-C1'-N9	6.19	113.15	108.20
26	BB	1744	A	C1'-O4'-C4'	-6.19	104.95	109.90
26	BB	1851	U	O4'-C1'-N1	6.19	113.15	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1900	A	C5-C6-N6	-6.19	118.75	123.70
26	BB	2354	C	C5'-C4'-C3'	-6.19	106.10	116.00
26	BB	2564	A	N1-C2-N3	-6.19	126.21	129.30
26	BB	2820	A	O4'-C4'-C3'	6.19	111.05	106.10
1	AA	445	G	C4-C5-C6	6.19	122.51	118.80
1	AA	806	C	N1-C2-N3	6.19	123.53	119.20
2	AB	44	G	N9-C4-C5	6.19	107.88	105.40
26	BB	818	G	N3-C2-N2	6.19	124.23	119.90
26	BB	2767	C	N3-C4-C5	-6.19	119.43	121.90
1	AA	830	G	N9-C1'-C2'	-6.18	105.20	112.00
1	AA	1191	A	C5'-C4'-C3'	-6.18	106.10	116.00
1	AA	1530	G	C5'-C4'-C3'	-6.18	106.11	116.00
25	BA	54	G	C5'-C4'-O4'	6.18	116.52	109.10
26	BB	105	C	N1-C2-O2	6.18	122.61	118.90
26	BB	521	U	C5'-C4'-O4'	6.18	116.52	109.10
26	BB	670	A	N7-C8-N9	6.18	116.89	113.80
26	BB	2366	A	C2-N3-C4	6.18	113.69	110.60
26	BB	2511	U	C5'-C4'-O4'	6.18	116.52	109.10
26	BB	2648	G	N1-C6-O6	6.18	123.61	119.90
1	AA	14	U	C4'-C3'-C2'	-6.18	96.42	102.60
1	AA	242	G	C5-C6-N1	6.18	114.59	111.50
1	AA	1131	G	C8-N9-C4	-6.18	103.93	106.40
1	AA	1435	G	N3-C2-N2	-6.18	115.57	119.90
1	AA	1438	G	C1'-O4'-C4'	6.18	114.85	109.90
4	AD	1	C	O3'-P-O5'	6.18	115.75	104.00
13	AM	40	ILE	CA-CB-CG1	6.18	122.75	111.00
25	BA	61	G	N3-C2-N2	-6.18	115.57	119.90
26	BB	189	G	N3-C2-N2	-6.18	115.57	119.90
26	BB	570	G	N1-C6-O6	-6.18	116.19	119.90
26	BB	1082	U	C6-N1-C2	-6.18	117.29	121.00
26	BB	1546	G	O3'-P-O5'	-6.18	92.25	104.00
26	BB	1577	C	O4'-C1'-N1	6.18	113.14	108.20
26	BB	1711	A	N9-C1'-C2'	-6.18	105.20	112.00
26	BB	2234	G	N3-C4-C5	-6.18	125.51	128.60
26	BB	2385	C	C5'-C4'-O4'	6.18	116.52	109.10
32	BH	152	ARG	NE-CZ-NH1	6.18	123.39	120.30
1	AA	587	G	N3-C4-C5	-6.18	125.51	128.60
25	BA	52	A	C6-N1-C2	-6.18	114.89	118.60
26	BB	108	G	C6-C5-N7	-6.18	126.69	130.40
26	BB	389	G	N9-C4-C5	6.18	107.87	105.40
26	BB	857	G	N1-C2-N2	-6.18	110.64	116.20
26	BB	960	A	N3-C4-N9	-6.18	122.45	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1140	C	O3'-P-O5'	6.18	115.75	104.00
26	BB	1236	G	C5-C6-O6	-6.18	124.89	128.60
26	BB	1500	G	C4-C5-C6	6.18	122.51	118.80
26	BB	1540	G	N3-C2-N2	-6.18	115.57	119.90
26	BB	1825	U	P-O3'-C3'	6.18	127.12	119.70
26	BB	1954	G	N1-C2-N3	-6.18	120.19	123.90
26	BB	2300	C	O4'-C1'-N1	6.18	113.14	108.20
26	BB	2329	U	N3-C4-O4	6.18	123.73	119.40
26	BB	2592	G	C5-N7-C8	-6.18	101.21	104.30
1	AA	587	G	C4-C5-C6	6.18	122.51	118.80
1	AA	866	C	O4'-C1'-N1	6.18	113.14	108.20
1	AA	960	U	C2'-C3'-O3'	6.18	123.59	113.70
1	AA	1271	A	C4'-C3'-C2'	-6.18	96.42	102.60
1	AA	1356	G	C6-N1-C2	-6.18	121.39	125.10
26	BB	508	A	C5-C6-N1	6.18	120.79	117.70
26	BB	1186	G	C8-N9-C4	-6.18	103.93	106.40
26	BB	2022	U	C3'-C2'-C1'	6.18	106.44	101.50
26	BB	2160	C	C6-N1-C2	-6.18	117.83	120.30
26	BB	2164	C	N3-C2-O2	-6.18	117.58	121.90
26	BB	2234	G	C8-N9-C4	-6.18	103.93	106.40
26	BB	2694	G	C5-C6-N1	6.18	114.59	111.50
26	BB	2811	G	N1-C2-N3	-6.18	120.19	123.90
1	AA	291	U	O4'-C4'-C3'	6.18	111.04	106.10
1	AA	492	C	N3-C4-C5	-6.18	119.43	121.90
1	AA	1255	G	C8-N9-C4	-6.18	103.93	106.40
26	BB	443	A	O4'-C4'-C3'	6.18	111.04	106.10
26	BB	682	G	C4'-C3'-C2'	-6.18	96.42	102.60
26	BB	1111	A	C1'-O4'-C4'	-6.18	104.96	109.90
1	AA	658	C	N3-C4-C5	6.18	124.37	121.90
1	AA	700	G	N1-C6-O6	-6.18	116.19	119.90
1	AA	800	G	C6-N1-C2	-6.18	121.39	125.10
1	AA	913	A	C2-N3-C4	-6.18	107.51	110.60
1	AA	1394	A	C5-C6-N1	6.18	120.79	117.70
11	AK	116	ARG	NE-CZ-NH1	6.18	123.39	120.30
26	BB	704	G	N1-C2-N2	-6.18	110.64	116.20
26	BB	757	G	C6-C5-N7	6.18	134.11	130.40
26	BB	1367	A	C5-C6-N1	-6.18	114.61	117.70
26	BB	1699	G	P-O3'-C3'	6.18	127.11	119.70
26	BB	2124	G	C8-N9-C1'	6.18	135.03	127.00
26	BB	2147	A	C5-N7-C8	-6.18	100.81	103.90
26	BB	2152	G	O4'-C4'-C3'	6.18	111.04	106.10
26	BB	2236	U	N3-C4-O4	-6.18	115.08	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2784	U	C2-N3-C4	-6.18	123.29	127.00
1	AA	185	U	C5'-C4'-O4'	6.17	116.51	109.10
1	AA	914	A	C3'-C2'-C1'	6.17	106.44	101.50
26	BB	1312	U	C5-C6-N1	-6.17	119.61	122.70
26	BB	1474	U	C1'-O4'-C4'	-6.17	104.96	109.90
50	BZ	56	ARG	NE-CZ-NH2	6.17	123.39	120.30
1	AA	700	G	N3-C4-C5	-6.17	125.51	128.60
5	AE	126	ASP	CB-CG-OD1	-6.17	112.74	118.30
26	BB	50	U	N3-C4-C5	-6.17	110.90	114.60
26	BB	319	G	C6-N1-C2	-6.17	121.40	125.10
26	BB	2731	G	P-O5'-C5'	6.17	130.78	120.90
1	AA	269	C	C5'-C4'-O4'	6.17	116.51	109.10
1	AA	329	A	P-O3'-C3'	6.17	127.11	119.70
1	AA	718	A	N3-C4-C5	-6.17	122.48	126.80
1	AA	997	U	C5'-C4'-O4'	6.17	116.51	109.10
1	AA	1090	U	N3-C4-O4	6.17	123.72	119.40
1	AA	1197	A	C8-N9-C4	6.17	108.27	105.80
8	AH	56	PRO	N-CA-CB	6.17	110.71	103.30
9	AI	41	ASP	CB-CG-OD2	-6.17	112.75	118.30
25	BA	84	G	C4'-C3'-C2'	-6.17	96.43	102.60
26	BB	205	G	N1-C2-N3	6.17	127.60	123.90
26	BB	848	C	N1-C2-O2	6.17	122.60	118.90
26	BB	1279	G	N7-C8-N9	6.17	116.19	113.10
26	BB	1360	G	C5-C6-O6	6.17	132.30	128.60
26	BB	1466	U	C2-N3-C4	-6.17	123.30	127.00
26	BB	1538	G	O4'-C1'-N9	6.17	113.14	108.20
26	BB	1574	C	C5-C4-N4	-6.17	115.88	120.20
26	BB	1924	C	N1-C2-O2	6.17	122.60	118.90
48	BX	31	TYR	CD1-CE1-CZ	-6.17	114.25	119.80
1	AA	668	G	C5'-C4'-O4'	6.17	116.50	109.10
1	AA	1161	C	N3-C4-N4	-6.17	113.68	118.00
1	AA	1531	A	C6-N1-C2	-6.17	114.90	118.60
26	BB	279	A	C4'-C3'-C2'	-6.17	96.43	102.60
26	BB	695	G	N3-C4-C5	-6.17	125.52	128.60
26	BB	1137	G	C4'-C3'-C2'	-6.17	96.43	102.60
26	BB	2589	A	C5'-C4'-O4'	6.17	116.50	109.10
1	AA	310	G	C5-N7-C8	-6.17	101.22	104.30
1	AA	714	G	N3-C4-C5	-6.17	125.52	128.60
1	AA	1352	C	N1-C1'-C2'	-6.17	105.22	112.00
1	AA	1432	G	C4-C5-N7	-6.17	108.33	110.80
18	AR	53	ARG	NE-CZ-NH2	6.17	123.38	120.30
26	BB	79	C	C6-N1-C2	-6.17	117.83	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	447	A	N1-C6-N6	-6.17	114.90	118.60
26	BB	448	U	C5-C6-N1	-6.17	119.62	122.70
26	BB	562	U	C4-C5-C6	6.17	123.40	119.70
26	BB	735	A	N1-C2-N3	-6.17	126.22	129.30
26	BB	1209	U	O4'-C1'-N1	6.17	113.14	108.20
26	BB	1228	G	N9-C1'-C2'	6.17	122.02	114.00
26	BB	1274	A	O3'-P-O5'	-6.17	92.28	104.00
26	BB	1298	C	C3'-C2'-C1'	-6.17	96.56	101.50
26	BB	1515	A	C1'-O4'-C4'	-6.17	104.97	109.90
26	BB	1521	G	N3-C4-C5	-6.17	125.52	128.60
26	BB	1660	G	N3-C4-C5	-6.17	125.52	128.60
26	BB	1731	G	N3-C4-N9	-6.17	122.30	126.00
26	BB	1931	U	N3-C2-O2	-6.17	117.88	122.20
26	BB	2249	U	C4-C5-C6	6.17	123.40	119.70
26	BB	2363	G	C2-N3-C4	6.17	114.98	111.90
26	BB	2616	C	N1-C2-N3	-6.17	114.88	119.20
1	AA	16	A	C4-C5-N7	-6.17	107.62	110.70
1	AA	77	A	C1'-O4'-C4'	6.17	114.83	109.90
1	AA	767	A	N9-C4-C5	6.17	108.27	105.80
1	AA	1434	A	C8-N9-C4	-6.17	103.33	105.80
1	AA	1505	G	N1-C2-N2	6.17	121.75	116.20
26	BB	192	C	C5-C6-N1	6.17	124.08	121.00
26	BB	2424	C	C6-N1-C2	-6.17	117.83	120.30
26	BB	2561	U	C5-C4-O4	-6.17	122.20	125.90
26	BB	2730	C	N1-C2-O2	-6.17	115.20	118.90
26	BB	2749	A	C5'-C4'-O4'	6.17	116.50	109.10
26	BB	2762	C	C5-C4-N4	-6.17	115.88	120.20
1	AA	33	A	N7-C8-N9	-6.17	110.72	113.80
1	AA	205	A	O4'-C1'-C2'	-6.17	99.64	105.80
1	AA	450	G	C6-C5-N7	-6.17	126.70	130.40
1	AA	975	A	N1-C6-N6	-6.17	114.90	118.60
26	BB	1437	C	C3'-C2'-C1'	6.17	106.43	101.50
26	BB	2219	U	N1-C1'-C2'	-6.17	105.22	112.00
26	BB	2902	C	C4'-C3'-C2'	-6.17	96.44	102.60
1	AA	151	A	C4-C5-C6	6.16	120.08	117.00
1	AA	187	G	N3-C4-C5	-6.16	125.52	128.60
1	AA	286	C	C1'-O4'-C4'	-6.16	104.97	109.90
1	AA	692	U	C5-C4-O4	-6.16	122.20	125.90
1	AA	1064	G	C6-C5-N7	-6.16	126.70	130.40
1	AA	1236	A	C6-N1-C2	6.16	122.30	118.60
1	AA	1511	G	N9-C4-C5	6.16	107.87	105.40
26	BB	47	C	C4'-C3'-C2'	-6.16	96.44	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	75	G	N9-C1'-C2'	-6.16	105.22	112.00
26	BB	418	C	N3-C4-N4	-6.16	113.69	118.00
26	BB	489	G	O5'-P-OP2	-6.16	100.15	105.70
26	BB	524	G	C3'-C2'-C1'	-6.16	96.57	101.50
26	BB	747	5MU	P-O3'-C3'	6.16	127.10	119.70
26	BB	808	G	C3'-C2'-C1'	-6.16	96.57	101.50
26	BB	1594	U	C5-C4-O4	6.16	129.60	125.90
26	BB	1961	C	N3-C4-C5	-6.16	119.44	121.90
28	BD	270	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	AA	364	A	C6-N1-C2	6.16	122.30	118.60
1	AA	842	U	C1'-O4'-C4'	-6.16	104.97	109.90
1	AA	882	C	P-O5'-C5'	6.16	130.76	120.90
1	AA	1053	G	C5-C6-N1	6.16	114.58	111.50
14	AN	97	ARG	NE-CZ-NH1	6.16	123.38	120.30
26	BB	968	C	C4'-C3'-C2'	-6.16	96.44	102.60
26	BB	1485	U	C5-C4-O4	6.16	129.60	125.90
1	AA	244	U	N3-C2-O2	-6.16	117.89	122.20
1	AA	283	U	C5'-C4'-O4'	6.16	116.49	109.10
26	BB	138	U	C3'-C2'-C1'	6.16	106.43	101.50
26	BB	845	A	N1-C2-N3	6.16	132.38	129.30
26	BB	2561	U	N1-C2-O2	-6.16	118.49	122.80
1	AA	122	G	C5-C6-N1	-6.16	108.42	111.50
1	AA	167	A	N9-C4-C5	-6.16	103.34	105.80
1	AA	788	U	C2'-C3'-O3'	6.16	123.55	113.70
1	AA	947	G	N9-C4-C5	6.16	107.86	105.40
1	AA	1170	A	C5-C6-N1	6.16	120.78	117.70
13	AM	95	GLY	O-C-N	6.16	132.56	122.70
17	AQ	80	ARG	NE-CZ-NH1	6.16	123.38	120.30
26	BB	400	G	O4'-C1'-N9	6.16	113.13	108.20
26	BB	635	C	N1-C2-O2	6.16	122.59	118.90
26	BB	724	U	C3'-C2'-C1'	-6.16	96.57	101.50
26	BB	900	A	C4-C5-N7	-6.16	107.62	110.70
26	BB	1554	U	C5-C6-N1	-6.16	119.62	122.70
26	BB	1720	U	N1-C2-N3	6.16	118.59	114.90
26	BB	2063	C	N1-C2-N3	-6.16	114.89	119.20
26	BB	2842	G	C5'-C4'-O4'	6.16	116.49	109.10
45	BU	99	ARG	NE-CZ-NH1	-6.16	117.22	120.30
46	BV	60	THR	CA-CB-CG2	6.16	121.02	112.40
1	AA	118	U	C1'-O4'-C4'	-6.16	104.97	109.90
1	AA	850	U	C1'-O4'-C4'	-6.16	104.97	109.90
5	AE	90	PHE	CB-CG-CD1	-6.16	116.49	120.80
18	AR	68	TYR	CG-CD2-CE2	-6.16	116.38	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	864	G	C4-C5-C6	6.16	122.49	118.80
26	BB	2880	C	C6-N1-C2	6.16	122.76	120.30
1	AA	287	U	N3-C4-C5	-6.16	110.91	114.60
1	AA	1371	G	O4'-C4'-C3'	-6.16	97.84	104.00
10	AJ	176	TYR	CB-CG-CD1	-6.16	117.31	121.00
26	BB	244	A	O4'-C4'-C3'	6.16	111.03	106.10
26	BB	1450	G	N9-C1'-C2'	-6.16	105.23	112.00
26	BB	1672	A	C4-C5-N7	-6.16	107.62	110.70
26	BB	1943	U	C2-N3-C4	-6.16	123.31	127.00
26	BB	2115	G	C5-N7-C8	-6.16	101.22	104.30
26	BB	1334	G	C8-N9-C4	-6.15	103.94	106.40
26	BB	2583	G	C2-N3-C4	6.15	114.98	111.90
1	AA	601	G	C3'-C2'-C1'	6.15	106.42	101.50
1	AA	756	C	N1-C2-N3	-6.15	114.89	119.20
1	AA	1430	A	C5-N7-C8	6.15	106.98	103.90
1	AA	1497	G	C3'-C2'-C1'	6.15	106.42	101.50
4	AD	66	C	C3'-C2'-C1'	6.15	106.42	101.50
26	BB	405	U	C5-C6-N1	-6.15	119.62	122.70
26	BB	668	A	C5-N7-C8	6.15	106.98	103.90
26	BB	875	G	C5-C6-O6	6.15	132.29	128.60
26	BB	1146	C	N1-C2-O2	6.15	122.59	118.90
26	BB	1242	U	C6-N1-C2	-6.15	117.31	121.00
26	BB	1547	C	C2-N3-C4	6.15	122.98	119.90
26	BB	1555	G	C5-N7-C8	-6.15	101.22	104.30
26	BB	1614	A	O4'-C1'-C2'	6.15	113.14	107.60
26	BB	2647	U	C2-N3-C4	-6.15	123.31	127.00
26	BB	2663	G	C8-N9-C1'	6.15	135.00	127.00
26	BB	2675	A	C5'-C4'-O4'	6.15	116.48	109.10
39	BO	92	TRP	CG-CD2-CE3	-6.15	128.36	133.90
1	AA	65	A	C5-N7-C8	6.15	106.97	103.90
1	AA	328	C	N3-C2-O2	-6.15	117.59	121.90
1	AA	540	G	N1-C2-N2	6.15	121.74	116.20
1	AA	628	G	C5-N7-C8	6.15	107.38	104.30
1	AA	755	G	N3-C4-C5	-6.15	125.53	128.60
1	AA	1536	C	N3-C2-O2	-6.15	117.59	121.90
26	BB	966	G	C4-C5-N7	-6.15	108.34	110.80
26	BB	1190	G	C3'-C2'-C1'	6.15	106.42	101.50
26	BB	2288	A	N1-C6-N6	6.15	122.29	118.60
1	AA	75	G	N9-C1'-C2'	-6.15	105.24	112.00
1	AA	419	C	C2-N3-C4	-6.15	116.83	119.90
1	AA	936	C	N3-C2-O2	-6.15	117.60	121.90
1	AA	1303	C	C5-C4-N4	-6.15	115.90	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	AQ	95	LEU	CB-CA-C	6.15	121.88	110.20
26	BB	827	U	C5-C6-N1	-6.15	119.62	122.70
26	BB	2340	A	C5'-C4'-O4'	6.15	116.48	109.10
26	BB	2741	A	N1-C2-N3	-6.15	126.23	129.30
29	BE	13	ARG	NE-CZ-NH1	6.15	123.37	120.30
1	AA	228	A	C4-C5-N7	6.15	113.77	110.70
1	AA	1219	A	C5'-C4'-C3'	-6.15	106.16	116.00
1	AA	1372	U	N1-C2-N3	6.15	118.59	114.90
26	BB	198	C	N1-C2-O2	6.15	122.59	118.90
26	BB	406	G	N7-C8-N9	6.15	116.17	113.10
26	BB	582	A	C1'-O4'-C4'	-6.15	104.98	109.90
26	BB	800	A	O4'-C1'-N9	6.15	113.12	108.20
26	BB	1233	C	N3-C2-O2	-6.15	117.60	121.90
26	BB	2459	A	C5-C6-N1	6.15	120.77	117.70
51	B0	23	ARG	NH1-CZ-NH2	-6.15	112.64	119.40
1	AA	567	G	N1-C2-N2	-6.15	110.67	116.20
26	BB	1739	A	O4'-C1'-N9	6.15	113.12	108.20
1	AA	630	A	C5'-C4'-O4'	6.14	116.47	109.10
1	AA	643	C	N1-C2-O2	6.14	122.59	118.90
1	AA	1011	C	C5-C6-N1	6.14	124.07	121.00
1	AA	1180	A	N1-C2-N3	-6.14	126.23	129.30
1	AA	1232	U	O4'-C1'-N1	6.14	113.12	108.20
1	AA	1315	U	C5-C6-N1	-6.14	119.63	122.70
1	AA	1511	G	N7-C8-N9	6.14	116.17	113.10
3	AC	48	C	N3-C2-O2	-6.14	117.60	121.90
26	BB	324	A	N9-C1'-C2'	-6.14	105.24	112.00
26	BB	2065	C	C5-C6-N1	6.14	124.07	121.00
26	BB	2208	C	N3-C4-C5	-6.14	119.44	121.90
26	BB	2598	A	P-O3'-C3'	6.14	127.07	119.70
26	BB	2755	C	O4'-C1'-N1	6.14	113.12	108.20
1	AA	89	U	N3-C2-O2	-6.14	117.90	122.20
1	AA	141	G	N1-C6-O6	-6.14	116.21	119.90
2	AB	9	A	C4-C5-N7	-6.14	107.63	110.70
2	AB	71	C	C4-C5-C6	-6.14	114.33	117.40
20	AT	32	ILE	CA-CB-CG1	6.14	122.67	111.00
25	BA	77	U	N1-C2-N3	6.14	118.58	114.90
25	BA	104	A	C6-C5-N7	6.14	136.60	132.30
26	BB	641	U	C5-C6-N1	-6.14	119.63	122.70
26	BB	661	A	N9-C4-C5	-6.14	103.34	105.80
26	BB	785	G	P-O3'-C3'	6.14	127.07	119.70
26	BB	828	U	C6-N1-C1'	-6.14	112.60	121.20
26	BB	869	G	C4'-C3'-C2'	-6.14	96.46	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1130	U	C5-C6-N1	-6.14	119.63	122.70
26	BB	1139	G	C4-C5-N7	-6.14	108.34	110.80
26	BB	1387	A	C8-N9-C4	-6.14	103.34	105.80
26	BB	1475	G	N1-C6-O6	6.14	123.58	119.90
26	BB	1549	A	C5'-C4'-O4'	6.14	116.47	109.10
26	BB	1677	A	C2-N3-C4	6.14	113.67	110.60
26	BB	1781	U	P-O3'-C3'	6.14	127.07	119.70
26	BB	2820	A	C4-C5-N7	-6.14	107.63	110.70
1	AA	945	G	N3-C4-C5	-6.14	125.53	128.60
1	AA	974	A	N1-C2-N3	-6.14	126.23	129.30
1	AA	1226	C	C2'-C3'-O3'	6.14	123.53	113.70
25	BA	14	U	O4'-C1'-N1	6.14	113.11	108.20
26	BB	1211	C	C5-C6-N1	6.14	124.07	121.00
26	BB	1505	A	C5-N7-C8	-6.14	100.83	103.90
26	BB	1789	A	C4-C5-N7	-6.14	107.63	110.70
26	BB	1937	A	C5-N7-C8	-6.14	100.83	103.90
26	BB	2614	A	P-O3'-C3'	6.14	127.07	119.70
1	AA	156	C	C5-C6-N1	6.14	124.07	121.00
1	AA	242	G	N9-C4-C5	6.14	107.86	105.40
1	AA	605	U	C5'-C4'-O4'	6.14	116.47	109.10
1	AA	700	G	N1-C2-N2	-6.14	110.67	116.20
26	BB	332	A	C5-C6-N1	-6.14	114.63	117.70
26	BB	371	A	C4-C5-C6	6.14	120.07	117.00
26	BB	635	C	N3-C4-N4	6.14	122.30	118.00
26	BB	1034	G	C5-N7-C8	-6.14	101.23	104.30
26	BB	1339	G	C3'-C2'-C1'	-6.14	96.59	101.50
26	BB	1550	C	N1-C1'-C2'	-6.14	105.25	112.00
26	BB	1672	A	C1'-O4'-C4'	-6.14	104.99	109.90
26	BB	1776	G	C5-C6-O6	-6.14	124.92	128.60
26	BB	1776	G	N1-C6-O6	6.14	123.58	119.90
26	BB	1932	A	C6-C5-N7	-6.14	128.00	132.30
26	BB	2028	U	C1'-O4'-C4'	6.14	114.81	109.90
26	BB	2408	U	O4'-C1'-N1	6.14	113.11	108.20
26	BB	2572	A	C8-N9-C4	-6.14	103.34	105.80
26	BB	2852	G	N1-C2-N3	-6.14	120.22	123.90
1	AA	139	A	C4-C5-N7	6.14	113.77	110.70
1	AA	588	G	C4'-C3'-C2'	-6.14	96.46	102.60
1	AA	767	A	C1'-O4'-C4'	6.14	114.81	109.90
26	BB	250	G	C4-C5-C6	6.14	122.48	118.80
1	AA	330	C	N3-C4-C5	-6.14	119.45	121.90
1	AA	605	U	C2-N1-C1'	-6.14	110.34	117.70
1	AA	724	G	N1-C6-O6	6.14	123.58	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1328	C	N1-C2-N3	-6.14	114.91	119.20
2	AB	2	G	N3-C4-N9	6.14	129.68	126.00
26	BB	335	C	N1-C2-N3	-6.14	114.90	119.20
26	BB	506	G	N7-C8-N9	6.14	116.17	113.10
26	BB	912	C	N3-C4-C5	-6.14	119.44	121.90
26	BB	1008	A	C6-C5-N7	6.14	136.60	132.30
26	BB	1074	G	C4-C5-C6	-6.14	115.12	118.80
26	BB	1387	A	N1-C2-N3	-6.14	126.23	129.30
26	BB	1475	G	C2-N3-C4	6.14	114.97	111.90
26	BB	1730	C	N3-C2-O2	-6.14	117.60	121.90
26	BB	1842	G	N7-C8-N9	6.14	116.17	113.10
26	BB	2145	C	N3-C2-O2	-6.14	117.60	121.90
26	BB	2344	U	C5'-C4'-O4'	6.14	116.46	109.10
29	BE	118	PHE	C-N-CA	6.14	137.04	121.70
1	AA	800	G	N9-C4-C5	6.13	107.85	105.40
1	AA	999	C	N3-C4-C5	-6.13	119.45	121.90
2	AB	71	C	N3-C2-O2	-6.13	117.61	121.90
26	BB	192	C	C5-C4-N4	-6.13	115.91	120.20
26	BB	361	G	C5-C6-N1	6.13	114.57	111.50
26	BB	513	A	N3-C4-C5	-6.13	122.51	126.80
26	BB	878	A	C4-C5-C6	-6.13	113.93	117.00
26	BB	1361	G	N7-C8-N9	6.13	116.17	113.10
26	BB	1831	G	C8-N9-C1'	6.13	134.97	127.00
26	BB	1913	A	C4-C5-N7	-6.13	107.63	110.70
1	AA	32	A	C4-C5-C6	6.13	120.07	117.00
1	AA	762	U	N3-C4-O4	6.13	123.69	119.40
4	AD	6	G	N3-C4-N9	6.13	129.68	126.00
26	BB	205	G	N9-C1'-C2'	6.13	121.97	114.00
26	BB	270	A	N7-C8-N9	6.13	116.87	113.80
26	BB	792	A	N7-C8-N9	6.13	116.87	113.80
26	BB	2239	G	N3-C2-N2	6.13	124.19	119.90
1	AA	221	C	N1-C1'-C2'	-6.13	105.25	112.00
1	AA	442	G	C6-N1-C2	-6.13	121.42	125.10
2	AB	23	A	C4-C5-N7	6.13	113.77	110.70
25	BA	10	G	N1-C2-N2	6.13	121.72	116.20
26	BB	214	G	N7-C8-N9	6.13	116.17	113.10
26	BB	605	G	C8-N9-C4	-6.13	103.95	106.40
26	BB	702	U	C5'-C4'-O4'	6.13	116.46	109.10
26	BB	834	G	N3-C2-N2	-6.13	115.61	119.90
26	BB	988	A	C2-N3-C4	-6.13	107.53	110.60
26	BB	1219	U	C4-C5-C6	6.13	123.38	119.70
26	BB	1361	G	C5-C6-N1	6.13	114.57	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1766	G	C6-N1-C2	-6.13	121.42	125.10
26	BB	2150	C	C5'-C4'-O4'	6.13	116.46	109.10
26	BB	2358	A	C1'-O4'-C4'	-6.13	105.00	109.90
26	BB	2584	U	C3'-C2'-C1'	6.13	106.41	101.50
26	BB	231	A	N1-C6-N6	6.13	122.28	118.60
26	BB	1266	G	C8-N9-C4	-6.13	103.95	106.40
26	BB	1269	A	N1-C2-N3	-6.13	126.23	129.30
26	BB	2659	G	C5-N7-C8	6.13	107.36	104.30
26	BB	2683	C	C5'-C4'-O4'	6.13	116.46	109.10
1	AA	166	U	C5-C6-N1	-6.13	119.64	122.70
1	AA	378	G	C5-N7-C8	-6.13	101.24	104.30
1	AA	1136	C	P-O3'-C3'	6.13	127.06	119.70
1	AA	1158	C	N3-C2-O2	-6.13	117.61	121.90
1	AA	1416	G	C3'-C2'-C1'	-6.13	96.60	101.50
15	AO	1	ALA	CB-CA-C	6.13	119.29	110.10
26	BB	305	C	N1-C2-N3	-6.13	114.91	119.20
26	BB	347	A	C2-N3-C4	6.13	113.66	110.60
26	BB	470	A	P-O3'-C3'	6.13	127.06	119.70
26	BB	875	G	C4-C5-C6	6.13	122.48	118.80
26	BB	1310	G	C3'-C2'-C1'	6.13	106.40	101.50
26	BB	1809	A	P-O3'-C3'	6.13	127.05	119.70
1	AA	577	G	C8-N9-C4	-6.13	103.95	106.40
1	AA	657	U	N3-C4-C5	-6.13	110.92	114.60
15	AO	34	THR	CA-CB-CG2	6.13	120.98	112.40
26	BB	261	G	C3'-C2'-C1'	6.13	106.40	101.50
26	BB	299	A	N3-C4-C5	-6.13	122.51	126.80
26	BB	471	A	C5-C6-N6	6.13	128.60	123.70
26	BB	694	U	C4-C5-C6	6.13	123.38	119.70
26	BB	878	A	C8-N9-C4	-6.13	103.35	105.80
26	BB	1038	G	C3'-C2'-C1'	6.13	106.40	101.50
26	BB	1120	G	C4-C5-C6	6.13	122.48	118.80
26	BB	1257	C	N3-C4-N4	6.13	122.29	118.00
26	BB	1554	U	C4-C5-C6	6.13	123.38	119.70
26	BB	1627	G	N1-C2-N2	6.13	121.71	116.20
26	BB	1749	A	N9-C4-C5	6.13	108.25	105.80
26	BB	2175	C	O3'-P-O5'	-6.13	92.36	104.00
26	BB	2336	A	C1'-O4'-C4'	-6.13	105.00	109.90
26	BB	2408	U	C2-N3-C4	-6.13	123.32	127.00
26	BB	2416	C	C2-N3-C4	6.13	122.96	119.90
26	BB	2779	U	P-O3'-C3'	6.13	127.05	119.70
1	AA	1535	C	C2-N3-C4	-6.12	116.84	119.90
5	AE	109	SER	CB-CA-C	6.12	121.74	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	421	C	O3'-P-O5'	-6.12	92.36	104.00
26	BB	1997	C	C6-N1-C2	-6.12	117.85	120.30
26	BB	2122	U	C2'-C3'-O3'	6.12	123.50	113.70
27	BC	146	THR	CA-CB-CG2	6.12	120.97	112.40
1	AA	186	C	C2-N3-C4	6.12	122.96	119.90
1	AA	458	U	C1'-O4'-C4'	-6.12	105.00	109.90
1	AA	491	G	O4'-C4'-C3'	6.12	111.00	106.10
1	AA	1068	G	C5'-C4'-O4'	6.12	116.45	109.10
1	AA	1211	U	N1-C2-N3	6.12	118.57	114.90
1	AA	1517	G	N7-C8-N9	6.12	116.16	113.10
4	AD	24	C	N3-C4-N4	6.12	122.29	118.00
26	BB	1548	A	C1'-O4'-C4'	-6.12	105.00	109.90
26	BB	1906	G	N3-C2-N2	-6.12	115.61	119.90
26	BB	2177	C	O4'-C1'-N1	6.12	113.10	108.20
42	BR	92	ARG	NH1-CZ-NH2	-6.12	112.66	119.40
1	AA	102	G	C4-C5-C6	6.12	122.47	118.80
1	AA	1105	A	C1'-O4'-C4'	-6.12	105.00	109.90
1	AA	1198	G	C4-C5-N7	-6.12	108.35	110.80
1	AA	1410	A	C5-C6-N6	6.12	128.60	123.70
25	BA	25	U	C5-C4-O4	-6.12	122.23	125.90
26	BB	226	A	N9-C4-C5	6.12	108.25	105.80
26	BB	572	A	C2-N3-C4	6.12	113.66	110.60
26	BB	608	A	C4'-C3'-C2'	-6.12	96.48	102.60
26	BB	902	C	N1-C2-O2	6.12	122.57	118.90
26	BB	967	U	C3'-C2'-C1'	6.12	106.40	101.50
26	BB	1114	C	C3'-C2'-C1'	6.12	106.40	101.50
26	BB	1677	A	C8-N9-C4	-6.12	103.35	105.80
26	BB	1678	A	N9-C1'-C2'	-6.12	105.27	112.00
26	BB	2228	G	C2-N3-C4	6.12	114.96	111.90
26	BB	2455	G	C8-N9-C4	-6.12	103.95	106.40
2	AB	58	A	C5-C6-N6	6.12	128.60	123.70
26	BB	32	C	C5-C4-N4	-6.12	115.92	120.20
26	BB	1691	C	C5-C6-N1	-6.12	117.94	121.00
1	AA	948	C	C3'-C2'-C1'	6.12	106.39	101.50
1	AA	1297	G	C6-C5-N7	6.12	134.07	130.40
1	AA	1341	U	N1-C2-O2	-6.12	118.52	122.80
26	BB	294	A	C6-N1-C2	6.12	122.27	118.60
26	BB	401	A	C3'-C2'-C1'	-6.12	96.61	101.50
26	BB	560	C	C6-N1-C2	6.12	122.75	120.30
26	BB	1098	A	C2-N3-C4	6.12	113.66	110.60
26	BB	1239	G	N3-C4-C5	-6.12	125.54	128.60
26	BB	1281	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	1549	A	C8-N9-C4	6.12	108.25	105.80
26	BB	2033	A	C4'-C3'-C2'	-6.12	96.48	102.60
26	BB	2109	U	N3-C4-O4	6.12	123.68	119.40
26	BB	2205	A	O4'-C1'-N9	6.12	113.09	108.20
26	BB	2293	G	C8-N9-C4	-6.12	103.95	106.40
26	BB	2544	G	C5-C6-O6	6.12	132.27	128.60
26	BB	2738	A	O4'-C1'-N9	6.12	113.09	108.20
26	BB	2757	A	C5'-C4'-C3'	-6.12	106.21	116.00
1	AA	282	A	C2-N3-C4	6.12	113.66	110.60
1	AA	576	C	O4'-C1'-N1	6.12	113.09	108.20
1	AA	751	U	N3-C4-O4	6.12	123.68	119.40
2	AB	31	U	C4'-C3'-C2'	-6.12	96.48	102.60
26	BB	852	U	P-O3'-C3'	6.12	127.04	119.70
26	BB	954	G	C2-N3-C4	6.12	114.96	111.90
26	BB	2344	U	O4'-C1'-N1	6.12	113.09	108.20
26	BB	2492	U	C5-C4-O4	6.12	129.57	125.90
1	AA	292	G	C5-C6-O6	-6.12	124.93	128.60
1	AA	347	G	C6-N1-C2	-6.12	121.43	125.10
1	AA	1238	A	C5-N7-C8	6.12	106.96	103.90
3	AC	16	A	C2-N3-C4	6.12	113.66	110.60
26	BB	293	U	C4-C5-C6	6.12	123.37	119.70
26	BB	737	C	N3-C4-N4	6.12	122.28	118.00
26	BB	808	G	C6-C5-N7	-6.12	126.73	130.40
26	BB	1212	G	N1-C2-N2	6.12	121.70	116.20
26	BB	1610	A	N1-C2-N3	-6.12	126.24	129.30
26	BB	1748	C	N3-C2-O2	6.12	126.18	121.90
26	BB	1842	G	C2-N3-C4	6.12	114.96	111.90
26	BB	2116	G	N3-C2-N2	6.12	124.18	119.90
26	BB	2798	U	C6-N1-C2	-6.12	117.33	121.00
1	AA	7	A	C4-C5-C6	-6.11	113.94	117.00
1	AA	455	G	C5-N7-C8	-6.11	101.24	104.30
1	AA	1059	C	C1'-O4'-C4'	-6.11	105.01	109.90
4	AD	12	G	C6-C5-N7	6.11	134.07	130.40
26	BB	1276	A	C5-C6-N1	-6.11	114.64	117.70
26	BB	1293	C	N1-C1'-C2'	-6.11	105.28	112.00
26	BB	1634	A	N7-C8-N9	-6.11	110.74	113.80
26	BB	2640	G	N3-C4-C5	-6.11	125.54	128.60
26	BB	2874	C	O4'-C1'-C2'	-6.11	99.69	105.80
1	AA	130	A	N1-C2-N3	-6.11	126.24	129.30
26	BB	1351	C	N1-C2-O2	6.11	122.57	118.90
49	BY	10	ARG	NE-CZ-NH1	6.11	123.36	120.30
1	AA	33	A	C5-N7-C8	6.11	106.95	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	510	A	N7-C8-N9	6.11	116.86	113.80
1	AA	530	G	C5-N7-C8	6.11	107.36	104.30
1	AA	630	A	C6-C5-N7	6.11	136.58	132.30
2	AB	52	A	N9-C4-C5	6.11	108.24	105.80
22	AV	49	ALA	CB-CA-C	6.11	119.27	110.10
26	BB	692	C	C5'-C4'-O4'	6.11	116.43	109.10
26	BB	975	A	N1-C2-N3	6.11	132.35	129.30
26	BB	1537	G	N3-C2-N2	-6.11	115.62	119.90
26	BB	1935	G	C4'-C3'-C2'	-6.11	96.49	102.60
26	BB	2882	A	C4'-C3'-C2'	-6.11	96.49	102.60
38	BN	89	VAL	CA-CB-CG1	6.11	120.07	110.90
1	AA	295	C	C2-N3-C4	6.11	122.95	119.90
1	AA	978	A	N7-C8-N9	6.11	116.86	113.80
2	AB	29	G	C5-C6-N1	6.11	114.55	111.50
3	AC	43	U	N1-C2-O2	-6.11	118.52	122.80
26	BB	1974	C	C5-C6-N1	6.11	124.05	121.00
26	BB	2039	U	O4'-C1'-N1	6.11	113.09	108.20
1	AA	21	G	C1'-O4'-C4'	6.11	114.79	109.90
1	AA	63	C	C5'-C4'-C3'	-6.11	106.23	116.00
1	AA	127	G	O5'-P-OP1	-6.11	100.20	105.70
1	AA	400	C	C1'-O4'-C4'	6.11	114.79	109.90
1	AA	656	G	C5-N7-C8	6.11	107.35	104.30
1	AA	1256	A	N1-C6-N6	-6.11	114.94	118.60
1	AA	1284	C	N1-C1'-C2'	-6.11	105.28	112.00
1	AA	1509	C	C3'-C2'-C1'	6.11	106.39	101.50
1	AA	1534	A	C4'-C3'-C2'	-6.11	96.49	102.60
8	AH	19	ARG	CD-NE-CZ	6.11	132.15	123.60
26	BB	158	U	O4'-C1'-N1	6.11	113.09	108.20
26	BB	371	A	N3-C4-C5	-6.11	122.52	126.80
26	BB	563	A	C1'-O4'-C4'	-6.11	105.01	109.90
26	BB	883	G	C2-N3-C4	6.11	114.95	111.90
26	BB	1506	U	C5-C4-O4	6.11	129.56	125.90
26	BB	2178	C	C4'-C3'-C2'	-6.11	96.49	102.60
26	BB	2469	A	C5'-C4'-O4'	6.11	116.43	109.10
26	BB	2525	G	C5'-C4'-C3'	-6.11	106.23	116.00
1	AA	213	G	N3-C4-C5	-6.11	125.55	128.60
1	AA	373	A	P-O3'-C3'	6.11	127.03	119.70
1	AA	1094	G	N3-C2-N2	-6.11	115.63	119.90
26	BB	50	U	N1-C2-O2	6.11	127.07	122.80
26	BB	171	U	C5-C6-N1	6.11	125.75	122.70
26	BB	479	A	N9-C4-C5	6.11	108.24	105.80
26	BB	923	G	C4-C5-C6	6.11	122.46	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1220	G	N3-C4-N9	-6.11	122.34	126.00
26	BB	1841	U	C5'-C4'-O4'	6.11	116.43	109.10
26	BB	1981	A	C8-N9-C4	-6.11	103.36	105.80
26	BB	2003	A	N1-C2-N3	-6.11	126.25	129.30
26	BB	2213	U	C5'-C4'-C3'	-6.11	106.23	116.00
26	BB	2224	G	N3-C4-C5	-6.11	125.55	128.60
26	BB	2351	G	C8-N9-C4	-6.11	103.96	106.40
26	BB	2525	G	N3-C4-C5	-6.11	125.55	128.60
26	BB	2775	G	C6-N1-C2	-6.11	121.44	125.10
30	BF	183	PHE	CB-CG-CD2	6.11	125.07	120.80
1	AA	358	U	O4'-C1'-N1	6.10	113.08	108.20
1	AA	484	G	O4'-C1'-C2'	6.10	113.09	107.60
26	BB	1833	C	N1-C2-O2	6.10	122.56	118.90
26	BB	2134	A	O4'-C1'-N9	6.10	113.08	108.20
26	BB	2368	C	N3-C4-N4	-6.10	113.73	118.00
39	BO	14	LYS	CA-CB-CG	6.10	126.83	113.40
1	AA	242	G	C5-N7-C8	-6.10	101.25	104.30
1	AA	690	G	C6-N1-C2	-6.10	121.44	125.10
26	BB	404	A	C5-C6-N1	6.10	120.75	117.70
26	BB	524	G	O4'-C1'-N9	-6.10	103.32	108.20
26	BB	786	C	N1-C2-O2	6.10	122.56	118.90
26	BB	1155	A	C4'-C3'-C2'	-6.10	96.50	102.60
26	BB	1427	A	C5-N7-C8	6.10	106.95	103.90
26	BB	2853	C	C5'-C4'-O4'	6.10	116.42	109.10
1	AA	616	G	C4-C5-C6	-6.10	115.14	118.80
1	AA	1322	C	C6-N1-C2	-6.10	117.86	120.30
2	AB	44	G	C1'-O4'-C4'	6.10	114.78	109.90
3	AC	37	G	C5-C6-N1	6.10	114.55	111.50
26	BB	409	G	C6-C5-N7	6.10	134.06	130.40
26	BB	809	G	C2-N3-C4	6.10	114.95	111.90
26	BB	1659	G	O4'-C1'-N9	6.10	113.08	108.20
26	BB	1902	C	N3-C4-N4	6.10	122.27	118.00
26	BB	2623	G	C5'-C4'-O4'	6.10	116.42	109.10
27	BC	208	TYR	CD1-CE1-CZ	6.10	125.29	119.80
1	AA	603	U	N1-C1'-C2'	-6.10	105.29	112.00
1	AA	1268	G	C6-N1-C2	6.10	128.76	125.10
1	AA	1324	A	N9-C4-C5	-6.10	103.36	105.80
26	BB	144	A	C1'-O4'-C4'	-6.10	105.02	109.90
26	BB	400	G	C5-C6-O6	-6.10	124.94	128.60
26	BB	509	C	O4'-C4'-C3'	6.10	110.98	106.10
26	BB	631	A	C4'-C3'-O3'	6.10	125.20	113.00
26	BB	842	U	N1-C1'-C2'	-6.10	105.29	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2193	G	N1-C2-N3	-6.10	120.24	123.90
41	BQ	30	ARG	NE-CZ-NH1	6.10	123.35	120.30
52	B1	15	ARG	NE-CZ-NH2	-6.10	117.25	120.30
1	AA	150	U	O4'-C4'-C3'	6.10	110.98	106.10
1	AA	593	U	C4-C5-C6	-6.10	116.04	119.70
1	AA	669	G	C6-N1-C2	-6.10	121.44	125.10
1	AA	730	G	C5-N7-C8	6.10	107.35	104.30
1	AA	914	A	C1'-O4'-C4'	6.10	114.78	109.90
1	AA	1266	G	N3-C4-N9	6.10	129.66	126.00
1	AA	1338	G	N3-C4-N9	6.10	129.66	126.00
20	AT	72	TRP	CH2-CZ2-CE2	6.10	123.50	117.40
26	BB	552	U	C3'-C2'-C1'	6.10	106.38	101.50
26	BB	817	C	O4'-C4'-C3'	6.10	110.98	106.10
26	BB	1003	G	O4'-C1'-N9	6.10	113.08	108.20
26	BB	1901	A	C8-N9-C4	6.10	108.24	105.80
26	BB	2228	G	C4-C5-C6	-6.10	115.14	118.80
26	BB	2749	A	C5-N7-C8	-6.10	100.85	103.90
1	AA	113	G	N1-C6-O6	6.10	123.56	119.90
1	AA	116	A	N1-C6-N6	6.10	122.26	118.60
1	AA	1450	U	N3-C4-C5	-6.10	110.94	114.60
26	BB	2662	A	N3-C4-C5	6.10	131.07	126.80
1	AA	840	C	C5'-C4'-C3'	-6.09	106.25	116.00
1	AA	1111	A	C5'-C4'-O4'	6.09	116.42	109.10
1	AA	1337	G	C4-C5-N7	-6.09	108.36	110.80
3	AC	44	U	C5-C6-N1	-6.09	119.65	122.70
4	AD	12	G	C5-N7-C8	6.09	107.35	104.30
20	AT	64	ARG	NE-CZ-NH1	6.09	123.35	120.30
26	BB	266	G	C1'-O4'-C4'	-6.09	105.03	109.90
26	BB	801	G	P-O3'-C3'	6.09	127.01	119.70
26	BB	849	A	C5-N7-C8	-6.09	100.85	103.90
26	BB	982	C	C2-N1-C1'	6.09	125.50	118.80
26	BB	2235	G	N3-C4-N9	6.09	129.66	126.00
26	BB	2539	C	C2-N3-C4	-6.09	116.85	119.90
26	BB	2663	G	C6-C5-N7	-6.09	126.74	130.40
26	BB	2853	C	N3-C4-C5	-6.09	119.46	121.90
1	AA	289	G	N1-C2-N3	-6.09	120.24	123.90
1	AA	1441	A	N1-C2-N3	-6.09	126.25	129.30
12	AL	89	TYR	C-N-CA	6.09	136.93	121.70
26	BB	347	A	N3-C4-C5	-6.09	122.53	126.80
26	BB	351	C	O4'-C1'-C2'	6.09	113.08	107.60
26	BB	466	A	C1'-O4'-C4'	6.09	114.78	109.90
26	BB	577	G	N3-C4-N9	6.09	129.66	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	130	A	O4'-C1'-N9	-6.09	103.33	108.20
1	AA	170	U	O4'-C1'-C2'	6.09	113.08	107.60
1	AA	465	A	C3'-C2'-C1'	6.09	106.37	101.50
1	AA	601	G	C5-N7-C8	-6.09	101.25	104.30
1	AA	814	A	N3-C4-C5	-6.09	122.54	126.80
1	AA	820	U	C5'-C4'-O4'	6.09	116.41	109.10
3	AC	18	A	C5-C6-N1	6.09	120.75	117.70
26	BB	686	U	N3-C4-C5	-6.09	110.94	114.60
26	BB	849	A	C4-C5-N7	6.09	113.75	110.70
26	BB	920	A	C1'-O4'-C4'	6.09	114.77	109.90
26	BB	1000	A	C2-N3-C4	6.09	113.65	110.60
1	AA	272	C	C5'-C4'-O4'	6.09	116.41	109.10
1	AA	1044	A	C5-C6-N1	6.09	120.75	117.70
1	AA	1260	G	O4'-C1'-N9	6.09	113.07	108.20
26	BB	93	G	C5-N7-C8	6.09	107.34	104.30
26	BB	596	U	N1-C2-N3	-6.09	111.25	114.90
26	BB	793	A	C6-N1-C2	6.09	122.25	118.60
26	BB	914	G	C2-N3-C4	6.09	114.94	111.90
26	BB	1000	A	P-O3'-C3'	6.09	127.01	119.70
26	BB	1018	U	N3-C2-O2	-6.09	117.94	122.20
26	BB	1524	G	C8-N9-C4	-6.09	103.97	106.40
26	BB	1927	A	O4'-C1'-N9	6.09	113.07	108.20
26	BB	1942	C	P-O3'-C3'	6.09	127.01	119.70
26	BB	2110	G	N9-C4-C5	6.09	107.84	105.40
1	AA	94	G	P-O5'-C5'	6.09	130.64	120.90
1	AA	275	G	C4-C5-C6	6.09	122.45	118.80
4	AD	63	C	C1'-O4'-C4'	6.09	114.77	109.90
25	BA	45	A	C6-C5-N7	6.09	136.56	132.30
26	BB	23	G	C5-C6-N1	-6.09	108.46	111.50
26	BB	299	A	N1-C6-N6	6.09	122.25	118.60
26	BB	1461	C	O4'-C4'-C3'	-6.09	97.91	104.00
26	BB	1523	U	O4'-C1'-N1	6.09	113.07	108.20
26	BB	1655	A	N3-C4-C5	-6.09	122.54	126.80
26	BB	2692	G	N3-C4-N9	6.09	129.65	126.00
26	BB	2769	U	N3-C4-O4	6.09	123.66	119.40
26	BB	2831	G	N1-C6-O6	-6.09	116.25	119.90
1	AA	96	U	N3-C2-O2	-6.09	117.94	122.20
1	AA	371	A	C4-C5-C6	-6.09	113.96	117.00
1	AA	431	A	C4-C5-N7	-6.09	107.66	110.70
1	AA	925	G	C4-C5-N7	-6.09	108.36	110.80
1	AA	980	C	C4-C5-C6	6.09	120.44	117.40
25	BA	21	G	C8-N9-C1'	6.09	134.91	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	109	C	N1-C1'-C2'	-6.09	105.31	112.00
26	BB	152	A	C8-N9-C4	6.09	108.23	105.80
26	BB	232	G	O4'-C1'-N9	6.09	113.07	108.20
26	BB	348	A	C4-C5-C6	-6.09	113.96	117.00
26	BB	830	G	N9-C4-C5	6.09	107.83	105.40
26	BB	1207	C	C5-C6-N1	6.09	124.04	121.00
26	BB	1577	C	N3-C2-O2	-6.09	117.64	121.90
26	BB	1800	C	C3'-C2'-C1'	-6.09	96.63	101.50
26	BB	1896	G	C5'-C4'-C3'	6.09	125.74	116.00
1	AA	598	U	P-O5'-C5'	6.08	130.64	120.90
1	AA	789	U	C1'-O4'-C4'	6.08	114.77	109.90
1	AA	817	C	C2-N3-C4	6.08	122.94	119.90
1	AA	1443	C	N3-C2-O2	-6.08	117.64	121.90
26	BB	1034	G	O4'-C1'-N9	6.08	113.07	108.20
26	BB	2290	G	C4-C5-N7	6.08	113.23	110.80
26	BB	2414	G	P-O3'-C3'	6.08	127.00	119.70
1	AA	137	U	C6-N1-C2	-6.08	117.35	121.00
1	AA	1006	G	C5'-C4'-O4'	6.08	116.40	109.10
1	AA	1382	C	C5-C4-N4	6.08	124.46	120.20
26	BB	75	G	C5-C6-O6	-6.08	124.95	128.60
26	BB	550	C	C3'-C2'-C1'	-6.08	96.63	101.50
26	BB	711	G	N3-C4-C5	-6.08	125.56	128.60
26	BB	1347	A	O4'-C1'-N9	6.08	113.07	108.20
26	BB	1685	C	C6-N1-C2	-6.08	117.87	120.30
26	BB	1791	A	C6-C5-N7	-6.08	128.04	132.30
26	BB	1812	U	O4'-C1'-N1	6.08	113.07	108.20
26	BB	1858	A	C4'-C3'-C2'	6.08	108.68	102.60
26	BB	1900	A	C1'-O4'-C4'	-6.08	105.03	109.90
26	BB	2285	C	N3-C2-O2	6.08	126.16	121.90
26	BB	2422	C	P-O3'-C3'	6.08	127.00	119.70
26	BB	2436	G	C5'-C4'-O4'	6.08	116.40	109.10
26	BB	2682	A	C5-N7-C8	6.08	106.94	103.90
29	BE	83	ARG	NE-CZ-NH1	-6.08	117.26	120.30
1	AA	484	G	C1'-O4'-C4'	-6.08	105.03	109.90
1	AA	819	A	C3'-C2'-C1'	6.08	106.36	101.50
1	AA	1497	G	C5-C6-N1	6.08	114.54	111.50
2	AB	65	C	O4'-C1'-N1	6.08	113.06	108.20
25	BA	33	G	C3'-C2'-C1'	6.08	106.36	101.50
26	BB	792	A	O4'-C1'-N9	6.08	113.07	108.20
26	BB	1074	G	N1-C2-N3	-6.08	120.25	123.90
26	BB	1497	U	C1'-O4'-C4'	-6.08	105.03	109.90
26	BB	1587	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	1657	U	C6-N1-C2	6.08	124.65	121.00
26	BB	2076	U	C1'-O4'-C4'	-6.08	105.03	109.90
26	BB	2134	A	C5'-C4'-O4'	6.08	116.40	109.10
26	BB	2866	U	N3-C4-O4	-6.08	115.14	119.40
27	BC	71	ARG	NE-CZ-NH2	6.08	123.34	120.30
1	AA	144	G	N9-C4-C5	6.08	107.83	105.40
26	BB	1059	G	O4'-C1'-C2'	6.08	113.07	107.60
26	BB	1140	C	O4'-C4'-C3'	6.08	110.96	106.10
26	BB	1281	G	C6-C5-N7	-6.08	126.75	130.40
26	BB	2176	A	N3-C4-C5	6.08	131.06	126.80
1	AA	72	A	N3-C4-C5	-6.08	122.55	126.80
1	AA	590	U	C5-C6-N1	6.08	125.74	122.70
1	AA	690	G	N1-C6-O6	6.08	123.55	119.90
1	AA	1445	U	O4'-C1'-N1	6.08	113.06	108.20
1	AA	1515	G	C8-N9-C4	-6.08	103.97	106.40
2	AB	60	U	P-O3'-C3'	6.08	126.99	119.70
26	BB	45	G	C4-C5-N7	-6.08	108.37	110.80
26	BB	86	G	N3-C4-C5	-6.08	125.56	128.60
26	BB	204	A	C4-C5-C6	-6.08	113.96	117.00
26	BB	286	U	N3-C4-O4	6.08	123.66	119.40
26	BB	728	G	O4'-C1'-N9	6.08	113.06	108.20
26	BB	772	C	O4'-C1'-N1	6.08	113.06	108.20
26	BB	1900	A	N1-C2-N3	6.08	132.34	129.30
26	BB	2793	C	C2-N3-C4	6.08	122.94	119.90
1	AA	1217	C	N1-C2-O2	6.08	122.55	118.90
1	AA	1526	G	O3'-P-O5'	-6.08	92.45	104.00
1	AA	1530	G	C5-N7-C8	-6.08	101.26	104.30
3	AC	53	G	P-O3'-C3'	6.08	126.99	119.70
26	BB	365	U	C3'-C2'-C1'	6.08	106.36	101.50
26	BB	530	G	C6-C5-N7	-6.08	126.75	130.40
26	BB	633	A	C6-N1-C2	-6.08	114.95	118.60
26	BB	1492	G	O4'-C1'-N9	6.08	113.06	108.20
26	BB	2518	A	C5-C6-N1	6.08	120.74	117.70
26	BB	2569	G	N9-C1'-C2'	-6.08	105.31	112.00
26	BB	2600	A	C6-N1-C2	6.08	122.25	118.60
1	AA	199	A	C5'-C4'-O4'	6.08	116.39	109.10
1	AA	475	C	P-O3'-C3'	6.08	126.99	119.70
1	AA	849	G	N7-C8-N9	6.08	116.14	113.10
1	AA	1202	U	C1'-O4'-C4'	-6.08	105.04	109.90
1	AA	1486	G	C5-C6-O6	-6.08	124.95	128.60
26	BB	53	A	C2-N3-C4	-6.08	107.56	110.60
26	BB	767	U	C6-N1-C2	-6.08	117.36	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	782	A	C6-N1-C2	6.08	122.25	118.60
26	BB	856	G	N9-C4-C5	6.08	107.83	105.40
26	BB	1038	G	N3-C4-C5	-6.08	125.56	128.60
26	BB	1828	G	N1-C6-O6	6.08	123.55	119.90
26	BB	1964	G	O4'-C1'-N9	6.08	113.06	108.20
26	BB	2032	G	C1'-O4'-C4'	-6.08	105.04	109.90
26	BB	2444	G	C5-C6-O6	-6.08	124.95	128.60
1	AA	182	A	N9-C4-C5	6.07	108.23	105.80
1	AA	366	A	C5-C6-N1	6.07	120.74	117.70
1	AA	962	C	C5'-C4'-O4'	6.07	116.39	109.10
1	AA	1343	G	P-O3'-C3'	6.07	126.99	119.70
1	AA	1386	G	N7-C8-N9	6.07	116.14	113.10
2	AB	19	G	C5-N7-C8	-6.07	101.26	104.30
26	BB	389	G	N3-C4-C5	-6.07	125.56	128.60
26	BB	649	G	C3'-C2'-C1'	-6.07	96.64	101.50
26	BB	1180	U	N3-C2-O2	-6.07	117.95	122.20
26	BB	2839	G	N3-C4-C5	-6.07	125.56	128.60
1	AA	570	G	N3-C2-N2	-6.07	115.65	119.90
26	BB	171	U	C6-N1-C2	-6.07	117.36	121.00
26	BB	307	G	C3'-C2'-C1'	6.07	106.36	101.50
26	BB	332	A	C1'-O4'-C4'	-6.07	105.04	109.90
26	BB	2626	C	C5-C6-N1	6.07	124.04	121.00
1	AA	145	G	N1-C2-N3	6.07	127.54	123.90
1	AA	309	A	N3-C4-C5	6.07	131.05	126.80
1	AA	532	A	N3-C4-C5	6.07	131.05	126.80
1	AA	623	C	C4'-C3'-C2'	-6.07	96.53	102.60
1	AA	1189	U	N1-C1'-C2'	-6.07	105.32	112.00
1	AA	1224	U	C3'-C2'-C1'	-6.07	96.64	101.50
1	AA	1224	U	C4-C5-C6	6.07	123.34	119.70
26	BB	620	G	N3-C2-N2	-6.07	115.65	119.90
26	BB	635	C	C5-C6-N1	-6.07	117.97	121.00
26	BB	1075	C	O4'-C4'-C3'	6.07	110.96	106.10
26	BB	1263	U	N3-C4-O4	6.07	123.65	119.40
26	BB	1337	G	C4-C5-C6	6.07	122.44	118.80
26	BB	1458	U	C6-N1-C2	-6.07	117.36	121.00
26	BB	2120	G	P-O3'-C3'	6.07	126.98	119.70
26	BB	2378	A	C6-N1-C2	-6.07	114.96	118.60
26	BB	2695	U	N3-C2-O2	-6.07	117.95	122.20
1	AA	312	C	C2-N3-C4	6.07	122.94	119.90
26	BB	127	A	C5'-C4'-O4'	-6.07	101.82	109.10
26	BB	516	C	N1-C1'-C2'	-6.07	105.33	112.00
26	BB	2137	U	C5-C6-N1	-6.07	119.67	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2597	G	N3-C4-C5	-6.07	125.56	128.60
1	AA	139	A	O4'-C1'-N9	6.07	113.05	108.20
3	AC	37	G	C6-N1-C2	-6.07	121.46	125.10
26	BB	170	U	C5'-C4'-O4'	6.07	116.38	109.10
26	BB	2158	A	C4-C5-N7	-6.07	107.67	110.70
26	BB	2405	G	N9-C1'-C2'	-6.07	105.33	112.00
26	BB	2521	C	N1-C2-N3	-6.07	114.95	119.20
26	BB	2782	G	N7-C8-N9	6.07	116.13	113.10
49	BY	56	HIS	CB-CA-C	6.07	122.54	110.40
1	AA	279	A	C4'-C3'-C2'	6.07	108.67	102.60
1	AA	402	G	C8-N9-C1'	6.07	134.89	127.00
1	AA	542	G	C8-N9-C4	-6.07	103.97	106.40
1	AA	1140	C	C3'-C2'-C1'	6.07	106.35	101.50
1	AA	1263	C	N1-C2-O2	6.07	122.54	118.90
7	AG	4	LEU	CA-CB-CG	-6.07	101.35	115.30
26	BB	622	G	N3-C4-N9	6.07	129.64	126.00
26	BB	664	G	C2-N3-C4	6.07	114.93	111.90
26	BB	859	G	C4-C5-C6	-6.07	115.16	118.80
26	BB	1046	A	C4-C5-C6	-6.07	113.97	117.00
26	BB	1200	C	C5-C4-N4	6.07	124.44	120.20
26	BB	1310	G	C4-C5-C6	6.07	122.44	118.80
26	BB	1874	C	N1-C2-O2	6.07	122.54	118.90
26	BB	2046	G	N3-C4-N9	6.07	129.64	126.00
26	BB	2284	A	N9-C4-C5	-6.07	103.37	105.80
35	BK	21	PRO	N-CA-CB	6.07	110.58	103.30
1	AA	1166	G	C6-N1-C2	6.06	128.74	125.10
12	AL	112	ARG	NE-CZ-NH1	6.06	123.33	120.30
26	BB	463	G	C5'-C4'-O4'	6.06	116.38	109.10
26	BB	829	A	C1'-O4'-C4'	-6.06	105.05	109.90
26	BB	1066	U	C5-C6-N1	-6.06	119.67	122.70
26	BB	1103	A	P-O3'-C3'	6.06	126.98	119.70
26	BB	1701	A	N3-C4-C5	-6.06	122.56	126.80
26	BB	1833	C	C4-C5-C6	-6.06	114.37	117.40
1	AA	117	G	C1'-O4'-C4'	-6.06	105.05	109.90
1	AA	275	G	N3-C4-C5	-6.06	125.57	128.60
1	AA	569	C	C2-N3-C4	-6.06	116.87	119.90
1	AA	607	A	C4-C5-N7	6.06	113.73	110.70
1	AA	724	G	N9-C1'-C2'	-6.06	105.33	112.00
1	AA	1126	U	C2-N3-C4	-6.06	123.36	127.00
1	AA	1334	G	C4-C5-N7	6.06	113.22	110.80
2	AB	35	C	C6-N1-C2	6.06	122.72	120.30
25	BA	10	G	N3-C2-N2	-6.06	115.66	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	218	A	C3'-C2'-C1'	6.06	106.35	101.50
26	BB	463	G	N3-C4-C5	-6.06	125.57	128.60
26	BB	573	U	N1-C2-O2	-6.06	118.56	122.80
26	BB	585	G	C4-C5-N7	6.06	113.22	110.80
26	BB	856	G	C5'-C4'-O4'	6.06	116.38	109.10
26	BB	950	G	N1-C2-N3	-6.06	120.26	123.90
26	BB	1860	G	O4'-C4'-C3'	-6.06	97.94	104.00
26	BB	2050	C	N1-C2-N3	-6.06	114.96	119.20
26	BB	2370	G	N3-C4-N9	6.06	129.64	126.00
26	BB	2882	A	O4'-C4'-C3'	6.06	110.95	106.10
26	BB	2902	C	C5-C6-N1	-6.06	117.97	121.00
1	AA	694	A	C4'-C3'-C2'	-6.06	96.54	102.60
26	BB	70	G	C8-N9-C4	-6.06	103.97	106.40
26	BB	649	G	C6-C5-N7	6.06	134.04	130.40
26	BB	1978	A	N9-C4-C5	6.06	108.22	105.80
26	BB	2122	U	O4'-C1'-N1	6.06	113.05	108.20
1	AA	660	C	N3-C4-C5	-6.06	119.48	121.90
1	AA	882	C	C2-N3-C4	-6.06	116.87	119.90
1	AA	1213	A	C5-C6-N6	6.06	128.55	123.70
26	BB	438	G	C2-N3-C4	6.06	114.93	111.90
26	BB	808	G	C5-C6-N1	-6.06	108.47	111.50
26	BB	1306	C	O5'-C5'-C4'	6.06	123.21	111.70
26	BB	1393	A	C5-C6-N6	-6.06	118.85	123.70
26	BB	1555	G	N1-C2-N3	6.06	127.53	123.90
26	BB	1815	A	C6-N1-C2	-6.06	114.97	118.60
26	BB	1936	A	O4'-C1'-N9	6.06	113.05	108.20
26	BB	2392	A	N7-C8-N9	6.06	116.83	113.80
1	AA	214	C	C6-N1-C2	-6.06	117.88	120.30
1	AA	325	A	N3-C4-C5	6.06	131.04	126.80
1	AA	381	C	N3-C2-O2	6.06	126.14	121.90
1	AA	394	G	O4'-C1'-N9	6.06	113.05	108.20
1	AA	536	C	O5'-C5'-C4'	6.06	123.21	111.70
1	AA	1057	G	O4'-C1'-N9	6.06	113.05	108.20
1	AA	1542	A	C5'-C4'-O4'	6.06	116.37	109.10
2	AB	53	G	N7-C8-N9	6.06	116.13	113.10
3	AC	28	U	C2-N3-C4	6.06	130.63	127.00
26	BB	85	G	C5-N7-C8	-6.06	101.27	104.30
26	BB	241	A	C4-C5-C6	-6.06	113.97	117.00
26	BB	354	A	C2-N3-C4	6.06	113.63	110.60
26	BB	619	G	N7-C8-N9	6.06	116.13	113.10
26	BB	1347	A	C2-N3-C4	6.06	113.63	110.60
26	BB	1704	C	C5'-C4'-O4'	6.06	116.37	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1798	U	N3-C4-C5	-6.06	110.97	114.60
26	BB	2230	G	C3'-C2'-C1'	-6.06	96.65	101.50
26	BB	2452	C	C6-N1-C2	-6.06	117.88	120.30
26	BB	2621	G	N1-C6-O6	-6.06	116.27	119.90
26	BB	2790	U	N3-C4-O4	6.06	123.64	119.40
1	AA	127	G	O4'-C1'-N9	6.06	113.05	108.20
25	BA	50	A	N1-C2-N3	-6.06	126.27	129.30
25	BA	116	G	C4-C5-N7	-6.06	108.38	110.80
26	BB	54	G	C4-C5-N7	-6.06	108.38	110.80
26	BB	1127	A	C2-N3-C4	6.06	113.63	110.60
1	AA	20	U	C5-C6-N1	-6.05	119.67	122.70
1	AA	1331	G	C8-N9-C4	-6.05	103.98	106.40
1	AA	1423	G	C6-N1-C2	-6.05	121.47	125.10
4	AD	44	A	C6-N1-C2	-6.05	114.97	118.60
26	BB	90	U	C4'-C3'-C2'	-6.05	96.55	102.60
26	BB	231	A	C2-N3-C4	6.05	113.63	110.60
26	BB	236	C	C4-C5-C6	6.05	120.43	117.40
26	BB	455	C	C5-C4-N4	-6.05	115.96	120.20
26	BB	534	U	N1-C2-O2	-6.05	118.56	122.80
26	BB	592	A	N1-C6-N6	6.05	122.23	118.60
26	BB	652	U	C4-C5-C6	6.05	123.33	119.70
26	BB	728	G	C5'-C4'-C3'	-6.05	106.31	116.00
26	BB	1732	C	N1-C2-O2	6.05	122.53	118.90
26	BB	2693	G	C4-C5-C6	-6.05	115.17	118.80
26	BB	2777	G	P-O3'-C3'	6.05	126.97	119.70
26	BB	2875	C	O4'-C1'-N1	6.05	113.04	108.20
1	AA	93	U	N1-C1'-C2'	-6.05	105.34	112.00
1	AA	834	U	C5-C6-N1	-6.05	119.67	122.70
26	BB	159	G	C5-N7-C8	6.05	107.33	104.30
26	BB	895	U	C6-N1-C2	-6.05	117.37	121.00
26	BB	1395	A	O4'-C1'-C2'	-6.05	99.75	105.80
26	BB	1546	G	C3'-C2'-C1'	6.05	106.34	101.50
26	BB	1752	C	C6-N1-C2	-6.05	117.88	120.30
1	AA	17	U	C5-C4-O4	-6.05	122.27	125.90
1	AA	373	A	C5-C6-N1	-6.05	114.67	117.70
1	AA	410	G	O4'-C1'-N9	6.05	113.04	108.20
1	AA	570	G	C6-N1-C2	-6.05	121.47	125.10
1	AA	969	A	C5'-C4'-O4'	6.05	116.36	109.10
1	AA	1172	C	N3-C4-C5	-6.05	119.48	121.90
25	BA	33	G	O4'-C1'-N9	6.05	113.04	108.20
26	BB	46	G	C5-N7-C8	-6.05	101.27	104.30
26	BB	465	G	C4-C5-N7	-6.05	108.38	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	608	A	N9-C4-C5	-6.05	103.38	105.80
26	BB	1729	U	C1'-O4'-C4'	-6.05	105.06	109.90
26	BB	2279	G	C2-N3-C4	6.05	114.93	111.90
26	BB	2464	G	C8-N9-C4	-6.05	103.98	106.40
57	B6	41	ARG	NE-CZ-NH2	-6.05	117.27	120.30
1	AA	137	U	C5-C4-O4	6.05	129.53	125.90
1	AA	487	A	C6-N1-C2	-6.05	114.97	118.60
1	AA	529	G	C5-C6-O6	-6.05	124.97	128.60
26	BB	1638	C	C6-N1-C1'	-6.05	113.54	120.80
26	BB	2267	A	C8-N9-C4	-6.05	103.38	105.80
26	BB	2606	C	C5-C6-N1	6.05	124.03	121.00
1	AA	657	U	N1-C2-N3	6.05	118.53	114.90
1	AA	1179	A	N1-C2-N3	-6.05	126.28	129.30
26	BB	4	U	C1'-O4'-C4'	6.05	114.74	109.90
26	BB	881	G	N7-C8-N9	6.05	116.12	113.10
26	BB	1082	U	C3'-C2'-C1'	-6.05	96.66	101.50
26	BB	1283	G	N1-C2-N2	-6.05	110.76	116.20
26	BB	1307	A	N1-C2-N3	-6.05	126.28	129.30
26	BB	2444	G	C5-C6-N1	6.05	114.52	111.50
1	AA	782	A	C5-N7-C8	-6.05	100.88	103.90
1	AA	785	G	P-O3'-C3'	6.05	126.96	119.70
1	AA	888	G	N3-C4-C5	-6.05	125.58	128.60
26	BB	61	C	N3-C2-O2	-6.05	117.67	121.90
26	BB	80	G	N1-C2-N2	-6.05	110.76	116.20
26	BB	250	G	O4'-C1'-C2'	6.05	113.04	107.60
26	BB	680	C	O4'-C4'-C3'	6.05	110.94	106.10
26	BB	700	G	N3-C2-N2	-6.05	115.67	119.90
26	BB	1438	U	O4'-C1'-N1	6.05	113.04	108.20
26	BB	1603	A	C8-N9-C4	-6.05	103.38	105.80
26	BB	1857	G	N9-C4-C5	-6.05	102.98	105.40
26	BB	1952	A	O4'-C1'-N9	6.05	113.04	108.20
26	BB	2221	G	P-O5'-C5'	6.05	130.57	120.90
26	BB	2266	A	O4'-C1'-N9	6.05	113.04	108.20
26	BB	2683	C	C1'-O4'-C4'	6.05	114.74	109.90
1	AA	247	G	C4-C5-N7	6.04	113.22	110.80
1	AA	1277	C	O4'-C1'-N1	6.04	113.04	108.20
1	AA	1409	C	C2-N3-C4	6.04	122.92	119.90
26	BB	33	C	C3'-C2'-C1'	-6.04	96.66	101.50
26	BB	1507	C	C5-C4-N4	-6.04	115.97	120.20
34	BJ	67	PRO	N-CD-CG	6.04	112.27	103.20
1	AA	642	A	N7-C8-N9	6.04	116.82	113.80
26	BB	70	G	O4'-C1'-C2'	-6.04	99.76	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	252	G	C5'-C4'-O4'	6.04	116.35	109.10
26	BB	533	G	N1-C2-N2	6.04	121.64	116.20
26	BB	536	G	O4'-C4'-C3'	6.04	110.94	106.10
26	BB	741	U	N1-C2-O2	-6.04	118.57	122.80
26	BB	936	A	O4'-C4'-C3'	6.04	110.94	106.10
26	BB	1047	G	C8-N9-C4	-6.04	103.98	106.40
26	BB	1430	G	N3-C4-C5	-6.04	125.58	128.60
26	BB	2236	U	N3-C4-C5	6.04	118.23	114.60
26	BB	2729	G	N7-C8-N9	6.04	116.12	113.10
26	BB	2884	U	C4-C5-C6	6.04	123.33	119.70
1	AA	984	C	N3-C2-O2	6.04	126.13	121.90
1	AA	1183	U	C6-N1-C2	6.04	124.62	121.00
1	AA	1237	C	N1-C2-O2	6.04	122.53	118.90
2	AB	56	C	C5-C4-N4	6.04	124.43	120.20
3	AC	49	U	N3-C4-O4	6.04	123.63	119.40
19	AS	60	TRP	NE1-CE2-CD2	-6.04	101.26	107.30
25	BA	56	G	N7-C8-N9	6.04	116.12	113.10
25	BA	76	G	N1-C6-O6	6.04	123.53	119.90
26	BB	673	C	C1'-O4'-C4'	-6.04	105.07	109.90
26	BB	748	G	N9-C4-C5	6.04	107.82	105.40
26	BB	1368	G	C8-N9-C4	-6.04	103.98	106.40
26	BB	1889	A	C8-N9-C4	-6.04	103.38	105.80
26	BB	1914	C	O4'-C1'-C2'	-6.04	99.76	105.80
26	BB	2397	G	C4'-C3'-C2'	-6.04	96.56	102.60
26	BB	2710	C	C2-N3-C4	6.04	122.92	119.90
26	BB	2746	U	N1-C2-O2	6.04	127.03	122.80
1	AA	75	G	C4-C5-C6	6.04	122.42	118.80
1	AA	306	A	O4'-C1'-N9	-6.04	103.37	108.20
1	AA	639	G	N1-C2-N2	6.04	121.64	116.20
1	AA	656	G	N1-C6-O6	6.04	123.52	119.90
25	BA	78	A	N9-C4-C5	-6.04	103.38	105.80
26	BB	236	C	C1'-O4'-C4'	6.04	114.73	109.90
26	BB	1606	C	C5'-C4'-O4'	6.04	116.35	109.10
26	BB	1846	G	O4'-C1'-N9	6.04	113.03	108.20
26	BB	1907	G	C5'-C4'-O4'	6.04	116.35	109.10
26	BB	1998	A	C5-C6-N6	-6.04	118.87	123.70
26	BB	2678	C	N3-C2-O2	-6.04	117.67	121.90
26	BB	2848	G	N9-C4-C5	6.04	107.82	105.40
1	AA	177	G	O4'-C1'-N9	6.04	113.03	108.20
1	AA	723	U	C6-N1-C2	6.04	124.62	121.00
2	AB	14	A	C6-C5-N7	6.04	136.53	132.30
4	AD	73	A	N3-C4-C5	6.04	131.03	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	125	A	N3-C4-C5	-6.04	122.57	126.80
26	BB	407	G	C5'-C4'-C3'	6.04	125.66	116.00
26	BB	864	G	N3-C4-C5	-6.04	125.58	128.60
26	BB	1720	U	O4'-C1'-N1	6.04	113.03	108.20
42	BR	20	ARG	CD-NE-CZ	6.04	132.05	123.60
44	BT	92	TRP	CD1-NE1-CE2	6.04	114.43	109.00
26	BB	1580	A	C6-N1-C2	-6.04	114.98	118.60
26	BB	2270	A	C2-N3-C4	6.04	113.62	110.60
26	BB	2898	U	C3'-C2'-C1'	6.04	106.33	101.50
1	AA	378	G	N7-C8-N9	6.04	116.12	113.10
1	AA	449	G	C4-C5-C6	6.04	122.42	118.80
1	AA	1479	C	P-O5'-C5'	6.04	130.56	120.90
6	AF	210	MET	CA-CB-CG	-6.04	103.04	113.30
26	BB	168	G	C2-N3-C4	-6.04	108.88	111.90
26	BB	234	U	O4'-C1'-N1	6.04	113.03	108.20
26	BB	355	U	C4-C5-C6	6.04	123.32	119.70
26	BB	797	G	P-O3'-C3'	6.04	126.94	119.70
26	BB	1255	U	C5-C6-N1	-6.04	119.68	122.70
26	BB	1410	G	C4-C5-N7	-6.04	108.39	110.80
26	BB	1925	C	O4'-C4'-C3'	6.04	110.93	106.10
26	BB	2424	C	N3-C2-O2	6.04	126.12	121.90
26	BB	2625	G	C4-C5-N7	-6.04	108.39	110.80
26	BB	2692	G	N3-C4-C5	-6.04	125.58	128.60
40	BP	4	ARG	CB-CA-C	6.04	122.47	110.40
1	AA	147	G	N1-C6-O6	6.03	123.52	119.90
1	AA	281	G	N9-C1'-C2'	-6.03	105.36	112.00
1	AA	458	U	N1-C1'-C2'	-6.03	105.36	112.00
1	AA	672	U	C5'-C4'-O4'	6.03	116.34	109.10
1	AA	679	C	N3-C4-C5	-6.03	119.49	121.90
1	AA	778	G	N1-C2-N3	-6.03	120.28	123.90
1	AA	789	U	C3'-C2'-C1'	-6.03	96.67	101.50
1	AA	988	G	C2-N3-C4	6.03	114.92	111.90
1	AA	1059	C	P-O3'-C3'	6.03	126.94	119.70
1	AA	1257	A	N9-C4-C5	-6.03	103.39	105.80
4	AD	62	C	N3-C2-O2	-6.03	117.68	121.90
26	BB	843	G	N3-C4-N9	-6.03	122.38	126.00
26	BB	1220	G	O4'-C1'-N9	6.03	113.03	108.20
26	BB	1710	G	N1-C6-O6	-6.03	116.28	119.90
30	BF	35	TYR	CG-CD2-CE2	-6.03	116.47	121.30
1	AA	1000	A	N3-C4-C5	-6.03	122.58	126.80
26	BB	997	G	N1-C2-N3	-6.03	120.28	123.90
26	BB	1473	G	N1-C6-O6	6.03	123.52	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1742	U	O5'-C5'-C4'	-6.03	100.24	111.70
1	AA	284	C	C1'-O4'-C4'	6.03	114.72	109.90
1	AA	694	A	O4'-C1'-N9	6.03	113.03	108.20
1	AA	790	A	N1-C6-N6	6.03	122.22	118.60
1	AA	793	U	C5-C4-O4	-6.03	122.28	125.90
26	BB	645	C	N3-C4-N4	-6.03	113.78	118.00
26	BB	736	C	N3-C4-C5	6.03	124.31	121.90
26	BB	1022	G	N3-C4-N9	6.03	129.62	126.00
26	BB	1648	U	N3-C4-O4	6.03	123.62	119.40
1	AA	295	C	C6-N1-C2	-6.03	117.89	120.30
1	AA	684	U	C5'-C4'-O4'	6.03	116.33	109.10
1	AA	761	G	N3-C2-N2	-6.03	115.68	119.90
1	AA	936	C	C5'-C4'-C3'	-6.03	106.35	116.00
2	AB	15	A	O4'-C1'-N9	6.03	113.02	108.20
26	BB	706	A	N1-C6-N6	-6.03	114.98	118.60
26	BB	1362	C	C2-N3-C4	6.03	122.92	119.90
26	BB	2324	U	C3'-C2'-C1'	6.03	106.32	101.50
26	BB	2472	G	C5'-C4'-O4'	6.03	116.33	109.10
26	BB	2727	A	C5-C6-N6	-6.03	118.88	123.70
1	AA	976	G	C5-C6-O6	6.03	132.22	128.60
1	AA	1067	A	C5-N7-C8	-6.03	100.89	103.90
1	AA	1080	A	C1'-O4'-C4'	-6.03	105.08	109.90
25	BA	26	C	C4'-C3'-C2'	6.03	108.63	102.60
25	BA	72	G	O4'-C4'-C3'	6.03	110.92	106.10
26	BB	351	C	C4-C5-C6	6.03	120.41	117.40
26	BB	712	G	N9-C4-C5	6.03	107.81	105.40
26	BB	805	G	C1'-O4'-C4'	-6.03	105.08	109.90
26	BB	946	C	N1-C2-O2	6.03	122.52	118.90
26	BB	1425	G	C8-N9-C4	-6.03	103.99	106.40
26	BB	1538	G	N9-C4-C5	-6.03	102.99	105.40
26	BB	1658	C	N3-C4-C5	-6.03	119.49	121.90
26	BB	1676	A	C3'-C2'-C1'	-6.03	96.68	101.50
26	BB	1956	U	C5-C6-N1	-6.03	119.69	122.70
26	BB	1989	G	N3-C2-N2	6.03	124.12	119.90
1	AA	357	G	N7-C8-N9	6.03	116.11	113.10
1	AA	396	C	N3-C4-C5	-6.03	119.49	121.90
1	AA	638	U	C4'-C3'-C2'	-6.03	96.58	102.60
1	AA	998	C	O3'-P-O5'	-6.03	92.55	104.00
1	AA	1374	A	C4'-C3'-C2'	-6.03	96.58	102.60
4	AD	26	C	C2-N3-C4	6.03	122.91	119.90
15	AO	94	TYR	CZ-CE2-CD2	6.03	125.22	119.80
26	BB	39	G	N9-C4-C5	6.03	107.81	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	530	G	C8-N9-C4	-6.03	103.99	106.40
26	BB	744	U	N3-C2-O2	-6.03	117.98	122.20
26	BB	810	U	C5'-C4'-O4'	6.03	116.33	109.10
26	BB	833	A	C5'-C4'-O4'	6.03	116.33	109.10
26	BB	869	G	C5-C6-O6	-6.03	124.98	128.60
26	BB	1648	U	N3-C2-O2	-6.03	117.98	122.20
26	BB	2122	U	C3'-C2'-C1'	6.03	106.32	101.50
26	BB	2310	C	N1-C2-O2	-6.03	115.28	118.90
26	BB	2740	A	C4-C5-C6	6.03	120.01	117.00
26	BB	2846	G	N1-C2-N3	6.03	127.52	123.90
1	AA	165	G	C5-N7-C8	6.02	107.31	104.30
1	AA	1538	C	C4-C5-C6	-6.02	114.39	117.40
26	BB	509	C	N1-C1'-C2'	6.02	121.83	114.00
26	BB	1448	G	C3'-C2'-C1'	-6.02	96.68	101.50
26	BB	2856	A	C2-N3-C4	6.02	113.61	110.60
1	AA	583	A	O4'-C1'-N9	6.02	113.02	108.20
1	AA	683	G	C3'-C2'-C1'	-6.02	96.68	101.50
1	AA	1185	G	C5-C6-N1	6.02	114.51	111.50
1	AA	1373	G	C5'-C4'-O4'	6.02	116.33	109.10
26	BB	124	G	N3-C2-N2	6.02	124.11	119.90
26	BB	208	C	C2-N1-C1'	-6.02	112.17	118.80
26	BB	770	G	N9-C4-C5	-6.02	102.99	105.40
26	BB	1471	G	N9-C4-C5	6.02	107.81	105.40
26	BB	1841	U	C1'-O4'-C4'	-6.02	105.08	109.90
26	BB	2074	U	N3-C2-O2	-6.02	117.98	122.20
26	BB	2254	C	C5'-C4'-O4'	6.02	116.33	109.10
40	BP	114	GLU	OE1-CD-OE2	6.02	130.53	123.30
1	AA	579	A	C8-N9-C4	-6.02	103.39	105.80
1	AA	948	C	C4-C5-C6	-6.02	114.39	117.40
1	AA	1002	G	C2-N3-C4	6.02	114.91	111.90
1	AA	1180	A	C1'-O4'-C4'	-6.02	105.08	109.90
1	AA	1306	A	C2-N3-C4	-6.02	107.59	110.60
26	BB	280	U	C4-C5-C6	6.02	123.31	119.70
26	BB	944	C	C5'-C4'-O4'	6.02	116.33	109.10
26	BB	1252	G	C5-C6-O6	-6.02	124.99	128.60
26	BB	1341	G	O4'-C1'-N9	6.02	113.02	108.20
26	BB	2078	C	C5-C6-N1	6.02	124.01	121.00
28	BD	236	GLY	C-N-CA	6.02	136.75	121.70
30	BF	69	ARG	NE-CZ-NH1	6.02	123.31	120.30
1	AA	794	A	C3'-C2'-C1'	-6.02	96.69	101.50
1	AA	1366	C	C3'-C2'-C1'	6.02	106.31	101.50
25	BA	9	G	N1-C2-N3	-6.02	120.29	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	73	A	C4-C5-N7	6.02	113.71	110.70
26	BB	261	G	N3-C4-C5	-6.02	125.59	128.60
26	BB	483	A	C1'-O4'-C4'	-6.02	105.08	109.90
26	BB	579	G	C5'-C4'-C3'	-6.02	106.37	116.00
26	BB	1734	G	C8-N9-C4	-6.02	103.99	106.40
26	BB	1767	G	N1-C2-N2	6.02	121.62	116.20
26	BB	2054	A	C6-C5-N7	-6.02	128.09	132.30
26	BB	2079	U	O4'-C4'-C3'	-6.02	97.98	104.00
26	BB	2486	C	C6-N1-C2	-6.02	117.89	120.30
26	BB	2762	C	N3-C2-O2	-6.02	117.69	121.90
1	AA	166	U	C4-C5-C6	6.02	123.31	119.70
1	AA	501	C	C1'-O4'-C4'	6.02	114.71	109.90
1	AA	589	U	O4'-C1'-N1	6.02	113.01	108.20
1	AA	995	C	N1-C1'-C2'	-6.02	105.38	112.00
1	AA	1375	A	C5'-C4'-O4'	6.02	116.32	109.10
1	AA	1376	U	C4-C5-C6	-6.02	116.09	119.70
1	AA	1434	A	N1-C6-N6	-6.02	114.99	118.60
1	AA	1461	G	C5'-C4'-C3'	-6.02	106.37	116.00
25	BA	117	G	C4-C5-N7	-6.02	108.39	110.80
26	BB	169	G	C4-C5-N7	-6.02	108.39	110.80
26	BB	356	G	N3-C2-N2	6.02	124.11	119.90
26	BB	494	G	N3-C4-C5	-6.02	125.59	128.60
26	BB	622	G	C4-C5-C6	6.02	122.41	118.80
26	BB	669	G	N3-C2-N2	-6.02	115.69	119.90
26	BB	1086	A	C6-C5-N7	6.02	136.51	132.30
26	BB	1290	C	C3'-C2'-C1'	-6.02	96.69	101.50
26	BB	1730	C	O5'-C5'-C4'	6.02	123.13	111.70
26	BB	2254	C	C5-C4-N4	-6.02	115.99	120.20
26	BB	2891	U	C4-C5-C6	6.02	123.31	119.70
38	BN	56	PRO	N-CD-CG	6.02	112.23	103.20
1	AA	1288	A	N7-C8-N9	6.02	116.81	113.80
25	BA	81	G	C5'-C4'-O4'	6.02	116.32	109.10
26	BB	8	C	O4'-C4'-C3'	-6.02	97.98	104.00
26	BB	121	G	N1-C2-N3	-6.02	120.29	123.90
26	BB	1614	A	C3'-C2'-C1'	-6.02	96.69	101.50
26	BB	1823	G	C4-C5-N7	-6.02	108.39	110.80
26	BB	1873	G	N3-C4-C5	-6.02	125.59	128.60
26	BB	2163	A	C8-N9-C4	-6.02	103.39	105.80
26	BB	2166	U	P-O3'-C3'	6.02	126.92	119.70
26	BB	2748	A	C5-C6-N6	6.02	128.51	123.70
1	AA	536	C	N1-C1'-C2'	-6.01	105.39	112.00
1	AA	1233	G	C6-C5-N7	-6.01	126.79	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	44	G	C2-N3-C4	6.01	114.91	111.90
26	BB	91	A	C4-C5-N7	-6.01	107.69	110.70
26	BB	368	A	C6-C5-N7	6.01	136.51	132.30
26	BB	918	A	C8-N9-C4	-6.01	103.39	105.80
26	BB	1300	G	C4-C5-N7	-6.01	108.39	110.80
26	BB	1995	U	N1-C2-N3	6.01	118.51	114.90
26	BB	2593	U	C6-N1-C2	6.01	124.61	121.00
26	BB	2634	A	C8-N9-C4	-6.01	103.39	105.80
26	BB	2773	C	N3-C4-C5	-6.01	119.49	121.90
1	AA	106	C	N3-C4-C5	-6.01	119.50	121.90
1	AA	158	G	C5-C6-O6	-6.01	124.99	128.60
1	AA	883	C	C4'-C3'-C2'	-6.01	96.59	102.60
1	AA	1419	G	N3-C2-N2	6.01	124.11	119.90
26	BB	593	U	C4'-C3'-C2'	-6.01	96.59	102.60
26	BB	689	A	C5'-C4'-O4'	6.01	116.32	109.10
26	BB	2411	A	C5-C6-N1	6.01	120.71	117.70
1	AA	915	A	C5-N7-C8	-6.01	100.89	103.90
1	AA	1039	G	N1-C2-N2	6.01	121.61	116.20
3	AC	18	A	O4'-C1'-N9	6.01	113.01	108.20
26	BB	16	C	C5'-C4'-C3'	-6.01	106.38	116.00
26	BB	219	A	C5'-C4'-C3'	-6.01	106.38	116.00
26	BB	847	U	P-O5'-C5'	-6.01	111.28	120.90
26	BB	925	A	C5'-C4'-C3'	-6.01	106.38	116.00
26	BB	1143	A	O4'-C1'-N9	6.01	113.01	108.20
26	BB	1408	G	N1-C6-O6	-6.01	116.29	119.90
26	BB	1538	G	C5-C6-O6	-6.01	124.99	128.60
26	BB	2020	A	N1-C2-N3	-6.01	126.30	129.30
26	BB	2572	A	C5-N7-C8	-6.01	100.89	103.90
1	AA	293	G	C4-C5-C6	6.01	122.41	118.80
1	AA	442	G	N7-C8-N9	6.01	116.11	113.10
1	AA	954	G	O4'-C1'-N9	6.01	113.01	108.20
1	AA	1415	G	N3-C2-N2	6.01	124.11	119.90
1	AA	1440	U	N3-C2-O2	-6.01	117.99	122.20
1	AA	1514	G	O4'-C4'-C3'	6.01	110.91	106.10
26	BB	115	C	C6-N1-C2	6.01	122.70	120.30
26	BB	180	G	C1'-O4'-C4'	-6.01	105.09	109.90
26	BB	207	A	C5'-C4'-O4'	6.01	116.31	109.10
26	BB	280	U	N1-C2-O2	6.01	127.01	122.80
26	BB	797	G	C6-N1-C2	-6.01	121.49	125.10
26	BB	2702	G	N3-C2-N2	-6.01	115.69	119.90
26	BB	2876	G	N9-C1'-C2'	-6.01	105.39	112.00
39	BO	6	ARG	NE-CZ-NH2	-6.01	117.30	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	BX	69	GLU	OE1-CD-OE2	6.01	130.51	123.30
26	BB	126	A	C8-N9-C4	-6.01	103.40	105.80
26	BB	131	A	N7-C8-N9	6.01	116.80	113.80
26	BB	618	G	C3'-C2'-C1'	-6.01	96.69	101.50
26	BB	1270	C	N3-C4-N4	6.01	122.20	118.00
26	BB	1785	A	C4-C5-N7	-6.01	107.70	110.70
26	BB	1862	G	C8-N9-C4	-6.01	104.00	106.40
26	BB	2162	G	C4-C5-C6	6.01	122.41	118.80
26	BB	2783	U	O4'-C1'-N1	6.01	113.01	108.20
1	AA	528	C	C4-C5-C6	-6.01	114.40	117.40
1	AA	896	C	N1-C2-O2	-6.01	115.30	118.90
1	AA	1092	A	C1'-O4'-C4'	-6.01	105.09	109.90
1	AA	1185	G	C8-N9-C4	-6.01	104.00	106.40
1	AA	1357	A	N7-C8-N9	-6.01	110.80	113.80
1	AA	1399	C	O4'-C1'-C2'	-6.01	99.79	105.80
2	AB	3	G	C5-C6-N1	6.01	114.50	111.50
2	AB	45	U	N1-C1'-C2'	-6.01	105.39	112.00
25	BA	95	U	O4'-C4'-C3'	6.01	110.91	106.10
26	BB	47	C	C6-N1-C2	6.01	122.70	120.30
26	BB	314	C	C2-N3-C4	6.01	122.90	119.90
26	BB	474	G	N9-C4-C5	6.01	107.80	105.40
26	BB	601	C	C5-C6-N1	6.01	124.00	121.00
26	BB	962	G	C5-C6-O6	-6.01	125.00	128.60
26	BB	1278	C	O4'-C1'-N1	6.01	113.00	108.20
26	BB	1491	G	N1-C6-O6	-6.01	116.30	119.90
26	BB	1526	C	C2-N1-C1'	-6.01	112.19	118.80
26	BB	2053	G	N3-C4-C5	-6.01	125.60	128.60
26	BB	2238	G	N3-C4-C5	-6.01	125.60	128.60
26	BB	2567	G	N9-C4-C5	6.01	107.80	105.40
26	BB	2863	C	N1-C1'-C2'	-6.01	105.39	112.00
26	BB	2890	G	N3-C4-C5	-6.01	125.60	128.60
43	BS	27	ARG	CD-NE-CZ	6.01	132.01	123.60
26	BB	454	A	C5'-C4'-O4'	6.00	116.31	109.10
26	BB	2555	U	N1-C2-N3	6.00	118.50	114.90
1	AA	165	G	C5-C6-O6	6.00	132.20	128.60
1	AA	643	C	C5-C6-N1	6.00	124.00	121.00
1	AA	706	A	C6-N1-C2	6.00	122.20	118.60
1	AA	899	C	N1-C2-O2	6.00	122.50	118.90
1	AA	1365	G	C6-C5-N7	-6.00	126.80	130.40
3	AC	56	G	N1-C2-N3	6.00	127.50	123.90
25	BA	90	C	C3'-C2'-C1'	6.00	106.30	101.50
26	BB	269	C	OP2-P-O3'	6.00	118.41	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1307	A	C4-C5-N7	-6.00	107.70	110.70
26	BB	1404	C	C4-C5-C6	-6.00	114.40	117.40
26	BB	1534	U	P-O3'-C3'	6.00	126.91	119.70
26	BB	1815	A	C1'-O4'-C4'	6.00	114.70	109.90
26	BB	2323	G	C4-C5-C6	6.00	122.40	118.80
26	BB	2369	A	C8-N9-C4	-6.00	103.40	105.80
26	BB	2369	A	N1-C2-N3	-6.00	126.30	129.30
1	AA	514	C	C3'-C2'-C1'	6.00	106.30	101.50
1	AA	533	A	C5-C6-N1	6.00	120.70	117.70
1	AA	552	U	N3-C4-C5	6.00	118.20	114.60
1	AA	555	U	C5'-C4'-C3'	-6.00	106.40	116.00
1	AA	1255	G	C5-C6-N1	6.00	114.50	111.50
3	AC	26	U	C3'-C2'-C1'	6.00	106.30	101.50
26	BB	23	G	C2-N3-C4	-6.00	108.90	111.90
26	BB	134	G	O4'-C1'-N9	6.00	113.00	108.20
26	BB	638	G	C2-N3-C4	-6.00	108.90	111.90
26	BB	664	G	O4'-C1'-N9	6.00	113.00	108.20
26	BB	1091	G	C5-N7-C8	-6.00	101.30	104.30
26	BB	1348	C	O4'-C1'-N1	6.00	113.00	108.20
26	BB	1488	C	N3-C4-C5	-6.00	119.50	121.90
26	BB	1503	A	O4'-C1'-N9	6.00	113.00	108.20
26	BB	1920	C	C5-C6-N1	-6.00	118.00	121.00
26	BB	2048	G	N9-C4-C5	6.00	107.80	105.40
26	BB	2421	G	C6-N1-C2	-6.00	121.50	125.10
26	BB	2622	U	C4'-C3'-C2'	-6.00	96.60	102.60
26	BB	2681	C	C3'-C2'-C1'	6.00	106.30	101.50
26	BB	563	A	N3-C4-N9	-6.00	122.60	127.40
26	BB	642	U	O4'-C1'-C2'	-6.00	99.80	105.80
26	BB	896	A	O4'-C1'-C2'	-6.00	99.80	105.80
26	BB	907	G	C5'-C4'-O4'	6.00	116.30	109.10
26	BB	1097	U	N1-C2-O2	6.00	127.00	122.80
26	BB	1543	G	C5'-C4'-O4'	6.00	116.30	109.10
26	BB	1759	A	C6-N1-C2	6.00	122.20	118.60
26	BB	1903	G	N3-C4-N9	6.00	129.60	126.00
52	B1	52	PHE	CB-CG-CD2	-6.00	116.60	120.80
1	AA	850	U	C5'-C4'-C3'	-6.00	106.40	116.00
2	AB	67	G	C5-N7-C8	-6.00	101.30	104.30
4	AD	59	A	O4'-C1'-C2'	-6.00	99.80	105.80
9	AI	109	ARG	NE-CZ-NH1	6.00	123.30	120.30
25	BA	84	G	C6-C5-N7	-6.00	126.80	130.40
26	BB	122	G	N1-C2-N3	-6.00	120.30	123.90
26	BB	315	G	C4-C5-C6	6.00	122.40	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1264	A	C1'-O4'-C4'	-6.00	105.10	109.90
26	BB	1592	C	C2-N3-C4	-6.00	116.90	119.90
26	BB	1650	A	N1-C6-N6	-6.00	115.00	118.60
26	BB	2038	G	O4'-C1'-N9	-6.00	103.40	108.20
26	BB	2140	G	O4'-C1'-N9	6.00	113.00	108.20
26	BB	2254	C	N1-C2-N3	-6.00	115.00	119.20
26	BB	2343	U	O4'-C1'-N1	6.00	113.00	108.20
1	AA	159	G	N3-C4-C5	-6.00	125.60	128.60
1	AA	288	A	N7-C8-N9	6.00	116.80	113.80
1	AA	416	G	C8-N9-C4	-6.00	104.00	106.40
1	AA	418	C	C5-C6-N1	-6.00	118.00	121.00
1	AA	606	G	C4'-C3'-C2'	-6.00	96.60	102.60
1	AA	767	A	N9-C1'-C2'	-6.00	105.40	112.00
1	AA	983	A	N9-C4-C5	6.00	108.20	105.80
1	AA	1047	G	C6-C5-N7	-6.00	126.80	130.40
23	AW	50	PHE	CB-CG-CD1	-6.00	116.60	120.80
26	BB	260	G	N9-C1'-C2'	-6.00	105.40	112.00
26	BB	1023	U	N3-C4-O4	6.00	123.60	119.40
26	BB	1229	C	C6-N1-C2	-6.00	117.90	120.30
26	BB	2013	A	C5-C6-N1	6.00	120.70	117.70
26	BB	2115	G	N1-C6-O6	6.00	123.50	119.90
26	BB	2337	G	C5'-C4'-C3'	-6.00	106.41	116.00
26	BB	2493	U	N3-C4-O4	6.00	123.60	119.40
31	BG	21	TYR	CB-CG-CD2	-6.00	117.40	121.00
41	BQ	99	TYR	CB-CG-CD1	-6.00	117.40	121.00
1	AA	1095	U	C5'-C4'-O4'	6.00	116.29	109.10
1	AA	1137	C	C5-C4-N4	-6.00	116.00	120.20
5	AE	22	TRP	NE1-CE2-CZ2	6.00	137.00	130.40
26	BB	426	C	C5'-C4'-C3'	-6.00	106.41	116.00
26	BB	700	G	C4-C5-N7	-6.00	108.40	110.80
26	BB	1536	C	N1-C2-O2	6.00	122.50	118.90
26	BB	1888	G	C5'-C4'-O4'	6.00	116.29	109.10
26	BB	2045	C	N1-C2-N3	-6.00	115.00	119.20
1	AA	470	C	O4'-C1'-C2'	5.99	112.99	107.60
1	AA	601	G	C6-C5-N7	-5.99	126.80	130.40
1	AA	681	A	C5'-C4'-O4'	5.99	116.29	109.10
1	AA	706	A	C3'-C2'-C1'	-5.99	96.71	101.50
1	AA	759	A	C8-N9-C4	-5.99	103.40	105.80
1	AA	1066	C	C5-C6-N1	5.99	124.00	121.00
1	AA	1118	U	C3'-C2'-C1'	5.99	106.30	101.50
1	AA	1201	A	C1'-O4'-C4'	-5.99	105.11	109.90
1	AA	1256	A	N9-C4-C5	-5.99	103.40	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1451	U	C5-C4-O4	-5.99	122.30	125.90
3	AC	16	A	N9-C4-C5	5.99	108.20	105.80
6	AF	171	ARG	NE-CZ-NH2	-5.99	117.30	120.30
25	BA	84	G	C2-N3-C4	5.99	114.90	111.90
26	BB	56	A	C1'-O4'-C4'	-5.99	105.11	109.90
26	BB	61	C	N1-C2-O2	5.99	122.50	118.90
26	BB	675	A	N1-C2-N3	-5.99	126.30	129.30
26	BB	859	G	C8-N9-C4	-5.99	104.00	106.40
26	BB	984	A	N1-C6-N6	-5.99	115.00	118.60
26	BB	1874	C	C5'-C4'-O4'	5.99	116.29	109.10
26	BB	2384	U	C3'-C2'-C1'	5.99	106.30	101.50
26	BB	2402	U	C5-C6-N1	-5.99	119.70	122.70
30	BF	140	ASP	CB-CG-OD2	5.99	123.69	118.30
1	AA	238	A	C1'-O4'-C4'	5.99	114.69	109.90
1	AA	782	A	C5-C6-N1	5.99	120.70	117.70
1	AA	878	A	C8-N9-C4	-5.99	103.40	105.80
25	BA	30	C	C5-C6-N1	5.99	124.00	121.00
25	BA	33	G	N7-C8-N9	-5.99	110.10	113.10
26	BB	424	G	C5-N7-C8	-5.99	101.30	104.30
26	BB	967	U	C4'-C3'-C2'	-5.99	96.61	102.60
26	BB	2409	G	C4-C5-C6	-5.99	115.20	118.80
1	AA	503	C	C6-N1-C1'	5.99	127.99	120.80
1	AA	743	A	C5'-C4'-C3'	-5.99	106.42	116.00
3	AC	29	G	C8-N9-C4	-5.99	104.00	106.40
4	AD	71	G	N7-C8-N9	5.99	116.09	113.10
24	AX	46	ARG	NE-CZ-NH2	-5.99	117.31	120.30
26	BB	1044	C	O3'-P-O5'	-5.99	92.62	104.00
26	BB	1381	G	C4-C5-C6	5.99	122.39	118.80
26	BB	1439	A	N7-C8-N9	5.99	116.80	113.80
26	BB	2447	G	N3-C2-N2	5.99	124.09	119.90
1	AA	167	A	C1'-O4'-C4'	-5.99	105.11	109.90
1	AA	489	C	N1-C2-O2	5.99	122.49	118.90
1	AA	564	C	C6-N1-C2	-5.99	117.91	120.30
1	AA	758	C	C4'-C3'-C2'	-5.99	96.61	102.60
1	AA	758	C	N1-C2-O2	5.99	122.49	118.90
1	AA	838	G	N1-C6-O6	-5.99	116.31	119.90
1	AA	990	C	N1-C2-N3	-5.99	115.01	119.20
1	AA	1513	A	N1-C2-N3	-5.99	126.31	129.30
2	AB	73	G	C4-C5-C6	5.99	122.39	118.80
26	BB	295	G	C8-N9-C1'	5.99	134.79	127.00
26	BB	391	A	P-O3'-C3'	5.99	126.89	119.70
26	BB	610	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	1134	A	C5'-C4'-O4'	-5.99	101.91	109.10
26	BB	1844	C	C5'-C4'-O4'	5.99	116.29	109.10
1	AA	566	G	N3-C4-C5	-5.99	125.61	128.60
7	AG	173	ASP	CB-CG-OD2	-5.99	112.91	118.30
26	BB	1329	U	N3-C2-O2	-5.99	118.01	122.20
26	BB	1461	C	N3-C4-C5	5.99	124.30	121.90
26	BB	1934	C	C2-N3-C4	5.99	122.89	119.90
1	AA	579	A	C2-N3-C4	-5.99	107.61	110.60
1	AA	731	G	C5-C6-O6	-5.99	125.01	128.60
1	AA	793	U	C1'-O4'-C4'	-5.99	105.11	109.90
1	AA	1528	U	N1-C2-O2	5.99	126.99	122.80
26	BB	234	U	C3'-C2'-C1'	5.99	106.29	101.50
26	BB	284	U	C4'-C3'-C2'	-5.99	96.61	102.60
26	BB	487	C	O3'-P-O5'	-5.99	92.63	104.00
26	BB	597	G	C5-C6-O6	-5.99	125.01	128.60
26	BB	1433	A	N9-C1'-C2'	-5.99	105.42	112.00
26	BB	1632	A	N1-C2-N3	5.99	132.29	129.30
26	BB	1755	A	C4-C5-C6	-5.99	114.01	117.00
26	BB	1884	G	N3-C4-N9	-5.99	122.41	126.00
26	BB	2124	G	C4-N9-C1'	-5.99	118.72	126.50
26	BB	2572	A	C3'-C2'-C1'	5.99	106.29	101.50
1	AA	190	A	N7-C8-N9	5.98	116.79	113.80
1	AA	412	A	P-O5'-C5'	5.98	130.47	120.90
1	AA	585	G	C4'-C3'-C2'	-5.98	96.62	102.60
1	AA	990	C	P-O3'-C3'	5.98	126.88	119.70
1	AA	1446	A	C4-C5-C6	-5.98	114.01	117.00
2	AB	7	G	C8-N9-C1'	5.98	134.78	127.00
26	BB	827	U	N3-C2-O2	-5.98	118.01	122.20
26	BB	996	A	C4-C5-C6	-5.98	114.01	117.00
26	BB	1742	U	N3-C4-C5	-5.98	111.01	114.60
26	BB	2604	U	O4'-C1'-N1	5.98	112.99	108.20
48	BX	21	ARG	NE-CZ-NH1	5.98	123.29	120.30
1	AA	52	C	C5'-C4'-O4'	5.98	116.28	109.10
1	AA	427	U	O4'-C1'-N1	5.98	112.99	108.20
1	AA	658	C	O4'-C1'-N1	5.98	112.98	108.20
1	AA	823	C	N3-C4-C5	-5.98	119.51	121.90
1	AA	938	A	C2-N3-C4	5.98	113.59	110.60
1	AA	1024	G	C5-C6-O6	-5.98	125.01	128.60
1	AA	1115	U	C5-C4-O4	5.98	129.49	125.90
1	AA	1435	G	C4-C5-N7	5.98	113.19	110.80
2	AB	69	C	N1-C1'-C2'	-5.98	105.42	112.00
26	BB	345	A	C6-N1-C2	5.98	122.19	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	383	C	N1-C2-N3	-5.98	115.01	119.20
26	BB	571	U	N3-C4-C5	-5.98	111.01	114.60
26	BB	712	G	N3-C2-N2	-5.98	115.71	119.90
26	BB	1447	C	C5-C6-N1	5.98	123.99	121.00
26	BB	1633	G	C6-C5-N7	-5.98	126.81	130.40
26	BB	1930	G	C6-C5-N7	-5.98	126.81	130.40
26	BB	2054	A	N7-C8-N9	5.98	116.79	113.80
26	BB	2175	C	C2-N3-C4	-5.98	116.91	119.90
26	BB	2731	G	N1-C6-O6	5.98	123.49	119.90
26	BB	2855	C	C5-C6-N1	5.98	123.99	121.00
36	BL	49	ASP	CB-CG-OD1	-5.98	112.92	118.30
42	BR	90	ALA	N-CA-CB	-5.98	101.72	110.10
1	AA	458	U	C2-N1-C1'	-5.98	110.52	117.70
1	AA	1127	G	N1-C2-N2	5.98	121.58	116.20
1	AA	1362	A	C4-C5-C6	-5.98	114.01	117.00
4	AD	31	G	N3-C4-N9	-5.98	122.41	126.00
4	AD	32	G	C1'-O4'-C4'	-5.98	105.12	109.90
25	BA	50	A	C4'-C3'-C2'	-5.98	96.62	102.60
26	BB	253	C	C1'-O4'-C4'	-5.98	105.11	109.90
26	BB	345	A	C2-N3-C4	5.98	113.59	110.60
26	BB	383	C	C4'-C3'-C2'	-5.98	96.62	102.60
26	BB	980	A	N1-C2-N3	-5.98	126.31	129.30
26	BB	1280	G	C5-N7-C8	-5.98	101.31	104.30
26	BB	1304	A	N1-C2-N3	-5.98	126.31	129.30
26	BB	1553	A	C5-C6-N1	5.98	120.69	117.70
26	BB	1627	G	C4-C5-N7	-5.98	108.41	110.80
26	BB	1953	A	O4'-C1'-N9	5.98	112.98	108.20
26	BB	2081	U	N3-C4-O4	5.98	123.59	119.40
26	BB	2434	A	C2-N3-C4	5.98	113.59	110.60
26	BB	2564	A	N9-C4-C5	-5.98	103.41	105.80
26	BB	2573	C	C1'-O4'-C4'	-5.98	105.12	109.90
26	BB	2626	C	N3-C4-N4	5.98	122.19	118.00
1	AA	371	A	N1-C2-N3	-5.98	126.31	129.30
1	AA	887	G	N1-C2-N3	5.98	127.49	123.90
1	AA	1150	A	C8-N9-C4	5.98	108.19	105.80
4	AD	72	C	C6-N1-C1'	5.98	127.97	120.80
26	BB	725	G	C3'-C2'-C1'	5.98	106.28	101.50
26	BB	975	A	C5-C6-N1	-5.98	114.71	117.70
26	BB	1232	G	C3'-C2'-C1'	5.98	106.28	101.50
26	BB	1636	U	N3-C4-O4	5.98	123.58	119.40
26	BB	2056	G	O4'-C1'-N9	5.98	112.98	108.20
26	BB	2786	U	C4'-C3'-C2'	-5.98	96.62	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	247	G	C5-C6-O6	-5.98	125.01	128.60
1	AA	345	C	N1-C2-N3	-5.98	115.02	119.20
1	AA	992	U	N1-C2-N3	5.98	118.49	114.90
1	AA	1014	A	C8-N9-C4	-5.98	103.41	105.80
1	AA	1499	A	C4'-C3'-C2'	5.98	108.58	102.60
26	BB	125	A	N3-C4-N9	5.98	132.18	127.40
26	BB	1232	G	C1'-O4'-C4'	5.98	114.68	109.90
26	BB	1491	G	C5-C6-N1	5.98	114.49	111.50
26	BB	1821	A	C2-N3-C4	-5.98	107.61	110.60
26	BB	1844	C	C4-C5-C6	5.98	120.39	117.40
26	BB	2331	G	N3-C4-C5	5.98	131.59	128.60
1	AA	948	C	N3-C4-C5	-5.98	119.51	121.90
1	AA	1271	A	N9-C4-C5	-5.98	103.41	105.80
26	BB	266	G	C4-C5-N7	5.98	113.19	110.80
26	BB	1296	G	P-O3'-C3'	5.98	126.87	119.70
26	BB	2497	A	C6-N1-C2	5.98	122.19	118.60
1	AA	333	U	N3-C2-O2	5.97	126.38	122.20
1	AA	728	A	C3'-C2'-C1'	5.97	106.28	101.50
1	AA	1177	G	C5-C6-N1	5.97	114.49	111.50
10	AJ	102	TRP	NE1-CE2-CZ2	5.97	136.97	130.40
24	AX	18	PHE	CB-CG-CD2	-5.97	116.62	120.80
25	BA	94	A	C4-C5-C6	-5.97	114.01	117.00
26	BB	176	A	C8-N9-C4	-5.97	103.41	105.80
26	BB	644	A	O4'-C1'-N9	5.97	112.98	108.20
26	BB	926	G	N1-C6-O6	5.97	123.48	119.90
1	AA	53	A	O4'-C4'-C3'	5.97	110.88	106.10
1	AA	202	G	N3-C2-N2	5.97	124.08	119.90
1	AA	921	U	C5'-C4'-O4'	5.97	116.27	109.10
1	AA	954	G	C5-C6-O6	-5.97	125.02	128.60
1	AA	1038	C	C5-C4-N4	5.97	124.38	120.20
1	AA	1042	A	C6-C5-N7	5.97	136.48	132.30
1	AA	1239	A	N9-C1'-C2'	-5.97	105.43	112.00
2	AB	19	G	C5-C6-O6	-5.97	125.02	128.60
25	BA	90	C	O4'-C1'-C2'	-5.97	99.83	105.80
26	BB	96	C	C5-C6-N1	-5.97	118.01	121.00
26	BB	447	A	N3-C4-C5	-5.97	122.62	126.80
26	BB	603	A	C5-C6-N1	5.97	120.69	117.70
26	BB	759	G	N1-C2-N3	5.97	127.48	123.90
26	BB	1333	G	C5'-C4'-O4'	5.97	116.27	109.10
26	BB	1363	C	C6-N1-C2	5.97	122.69	120.30
26	BB	1479	G	C6-C5-N7	5.97	133.98	130.40
26	BB	2441	U	N1-C2-N3	5.97	118.48	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2479	U	N3-C4-C5	5.97	118.18	114.60
1	AA	570	G	N3-C4-N9	-5.97	122.42	126.00
26	BB	2581	G	N3-C4-N9	5.97	129.58	126.00
1	AA	787	A	N9-C4-C5	-5.97	103.41	105.80
1	AA	1102	A	C5'-C4'-O4'	5.97	116.26	109.10
1	AA	1276	G	C5-C6-N1	5.97	114.48	111.50
26	BB	655	A	O4'-C4'-C3'	5.97	110.88	106.10
26	BB	709	U	N1-C2-N3	-5.97	111.32	114.90
26	BB	796	C	C4-C5-C6	5.97	120.39	117.40
26	BB	823	C	C6-N1-C2	-5.97	117.91	120.30
26	BB	1165	A	N1-C2-N3	-5.97	126.31	129.30
26	BB	1194	A	N3-C4-C5	-5.97	122.62	126.80
26	BB	1423	G	C6-N1-C2	-5.97	121.52	125.10
26	BB	1569	A	O4'-C1'-N9	5.97	112.98	108.20
26	BB	1966	A	N9-C4-C5	5.97	108.19	105.80
26	BB	2067	G	C4-C5-C6	5.97	122.38	118.80
26	BB	2572	A	C4-C5-C6	5.97	119.98	117.00
26	BB	2638	G	C5'-C4'-O4'	5.97	116.26	109.10
26	BB	2831	G	C5'-C4'-C3'	-5.97	106.45	116.00
1	AA	973	G	N7-C8-N9	5.97	116.08	113.10
1	AA	988	G	C5-C6-N1	-5.97	108.52	111.50
1	AA	1304	G	P-O3'-C3'	5.97	126.86	119.70
1	AA	1416	G	C6-C5-N7	5.97	133.98	130.40
26	BB	460	A	C6-C5-N7	5.97	136.48	132.30
26	BB	1016	G	P-O3'-C3'	5.97	126.86	119.70
26	BB	1604	C	C5'-C4'-C3'	-5.97	106.45	116.00
26	BB	2720	U	N1-C2-O2	5.97	126.98	122.80
1	AA	399	G	N3-C2-N2	-5.97	115.72	119.90
1	AA	745	G	N7-C8-N9	5.97	116.08	113.10
1	AA	890	G	N3-C4-N9	-5.97	122.42	126.00
1	AA	944	G	C3'-C2'-C1'	-5.97	96.73	101.50
1	AA	1231	G	P-O3'-C3'	5.97	126.86	119.70
1	AA	1505	G	C5-C6-N1	-5.97	108.52	111.50
1	AA	1520	C	C5-C4-N4	-5.97	116.02	120.20
6	AF	140	ALA	CB-CA-C	5.97	119.05	110.10
7	AG	169	TRP	CD2-CE3-CZ3	5.97	126.56	118.80
25	BA	73	A	P-O3'-C3'	5.97	126.86	119.70
26	BB	205	G	C1'-O4'-C4'	-5.97	105.13	109.90
26	BB	235	U	C5-C6-N1	-5.97	119.72	122.70
26	BB	536	G	N3-C4-C5	-5.97	125.62	128.60
26	BB	1356	G	C5-N7-C8	-5.97	101.32	104.30
26	BB	2073	C	C1'-O4'-C4'	5.97	114.67	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2137	U	C1'-O4'-C4'	5.97	114.67	109.90
26	BB	2842	G	C5'-C4'-C3'	-5.97	106.45	116.00
1	AA	1044	A	C5-N7-C8	-5.96	100.92	103.90
1	AA	1137	C	C5-C6-N1	5.96	123.98	121.00
1	AA	1338	G	O4'-C1'-C2'	-5.96	99.83	105.80
1	AA	1384	C	C2-N3-C4	-5.96	116.92	119.90
1	AA	1431	A	C8-N9-C4	-5.96	103.42	105.80
26	BB	1	G	C4-C5-C6	5.96	122.38	118.80
26	BB	65	U	C2-N3-C4	-5.96	123.42	127.00
26	BB	119	A	C5-N7-C8	5.96	106.88	103.90
26	BB	491	G	N3-C2-N2	5.96	124.08	119.90
26	BB	669	G	O4'-C1'-C2'	-5.96	99.83	105.80
26	BB	836	G	C1'-O4'-C4'	-5.96	105.13	109.90
26	BB	2262	U	N1-C2-N3	5.96	118.48	114.90
26	BB	2339	C	N3-C2-O2	-5.96	117.72	121.90
26	BB	2839	G	C5'-C4'-O4'	5.96	116.26	109.10
1	AA	952	U	C4-C5-C6	5.96	123.28	119.70
26	BB	173	A	N1-C2-N3	5.96	132.28	129.30
26	BB	346	A	C6-N1-C2	5.96	122.18	118.60
26	BB	966	G	N7-C8-N9	5.96	116.08	113.10
26	BB	2072	C	N1-C2-N3	-5.96	115.03	119.20
26	BB	2110	G	C3'-C2'-C1'	-5.96	96.73	101.50
26	BB	2409	G	N1-C6-O6	-5.96	116.32	119.90
26	BB	2587	A	C5-C6-N1	-5.96	114.72	117.70
26	BB	2716	C	C3'-C2'-C1'	-5.96	96.73	101.50
26	BB	2762	C	C3'-C2'-C1'	5.96	106.27	101.50
1	AA	521	G	N1-C6-O6	-5.96	116.32	119.90
1	AA	565	U	N1-C2-N3	5.96	118.48	114.90
1	AA	725	G	O5'-C5'-C4'	-5.96	100.37	111.70
25	BA	33	G	N1-C2-N2	-5.96	110.83	116.20
26	BB	409	G	C5-C6-N1	5.96	114.48	111.50
26	BB	726	G	C5'-C4'-O4'	5.96	116.25	109.10
26	BB	1182	G	N1-C2-N2	5.96	121.56	116.20
26	BB	1747	U	N1-C1'-C2'	5.96	121.75	114.00
26	BB	1861	G	N9-C4-C5	5.96	107.78	105.40
26	BB	2153	C	C5-C6-N1	-5.96	118.02	121.00
26	BB	2396	G	N1-C2-N3	-5.96	120.32	123.90
26	BB	2416	C	C5-C4-N4	5.96	124.37	120.20
26	BB	2446	G	N1-C2-N3	5.96	127.48	123.90
26	BB	2825	G	O4'-C1'-N9	5.96	112.97	108.20
42	BR	20	ARG	NE-CZ-NH1	5.96	123.28	120.30
1	AA	399	G	N7-C8-N9	-5.96	110.12	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1348	C	P-O3'-C3'	5.96	126.85	119.70
26	BB	1375	U	C4-C5-C6	5.96	123.28	119.70
38	BN	48	ARG	CD-NE-CZ	5.96	131.94	123.60
1	AA	154	U	N1-C2-N3	5.96	118.47	114.90
1	AA	806	C	C1'-O4'-C4'	-5.96	105.13	109.90
1	AA	828	U	N1-C2-O2	5.96	126.97	122.80
1	AA	872	A	C6-C5-N7	5.96	136.47	132.30
1	AA	1029	U	N3-C4-C5	-5.96	111.03	114.60
1	AA	1112	C	N3-C4-C5	-5.96	119.52	121.90
1	AA	1201	A	C5'-C4'-O4'	5.96	116.25	109.10
1	AA	1201	A	C5-C6-N6	-5.96	118.93	123.70
1	AA	1223	C	C6-N1-C2	-5.96	117.92	120.30
1	AA	1252	A	N1-C6-N6	5.96	122.17	118.60
26	BB	68	G	C5'-C4'-C3'	-5.96	106.47	116.00
26	BB	757	G	C5'-C4'-O4'	5.96	116.25	109.10
26	BB	781	A	P-O3'-C3'	5.96	126.85	119.70
26	BB	1210	G	N3-C4-N9	-5.96	122.42	126.00
26	BB	1329	U	C2-N3-C4	-5.96	123.42	127.00
26	BB	1349	C	N3-C4-N4	5.96	122.17	118.00
26	BB	1426	G	N1-C6-O6	-5.96	116.32	119.90
26	BB	1719	G	N7-C8-N9	5.96	116.08	113.10
26	BB	1739	A	N3-C4-N9	-5.96	122.63	127.40
26	BB	1812	U	N3-C4-C5	5.96	118.17	114.60
26	BB	1893	C	C5-C4-N4	-5.96	116.03	120.20
26	BB	2273	A	C5-C6-N1	-5.96	114.72	117.70
26	BB	2488	G	C4'-C3'-C2'	-5.96	96.64	102.60
26	BB	2549	G	C4-C5-C6	-5.96	115.22	118.80
26	BB	2594	C	C6-N1-C1'	5.96	127.95	120.80
26	BB	2799	A	N9-C1'-C2'	5.96	121.75	114.00
26	BB	2812	G	C2-N3-C4	5.96	114.88	111.90
1	AA	119	A	C8-N9-C4	-5.96	103.42	105.80
1	AA	138	G	N9-C4-C5	5.96	107.78	105.40
1	AA	765	G	C5'-C4'-O4'	5.96	116.25	109.10
26	BB	245	G	C8-N9-C4	-5.96	104.02	106.40
26	BB	337	C	C2'-C3'-O3'	5.96	123.23	113.70
26	BB	431	U	O5'-C5'-C4'	-5.96	100.38	111.70
26	BB	502	A	C2-N3-C4	5.96	113.58	110.60
26	BB	914	G	C5'-C4'-O4'	5.96	116.25	109.10
26	BB	997	G	C3'-C2'-C1'	-5.96	96.73	101.50
26	BB	1698	A	C5'-C4'-O4'	5.96	116.25	109.10
26	BB	2217	G	N7-C8-N9	5.96	116.08	113.10
26	BB	2471	A	O4'-C4'-C3'	5.96	110.87	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	433	G	C5-C6-O6	5.96	132.17	128.60
2	AB	22	G	C4-C5-N7	5.96	113.18	110.80
3	AC	26	U	C5-C6-N1	5.96	125.68	122.70
26	BB	341	C	N3-C4-C5	-5.96	119.52	121.90
26	BB	1259	G	N7-C8-N9	5.96	116.08	113.10
26	BB	1445	G	N3-C4-C5	-5.96	125.62	128.60
26	BB	1908	C	C1'-O4'-C4'	-5.96	105.14	109.90
26	BB	1964	G	C1'-O4'-C4'	-5.96	105.14	109.90
26	BB	2321	U	P-O3'-C3'	5.96	126.85	119.70
1	AA	947	G	C5-C6-N1	5.95	114.48	111.50
1	AA	1036	A	N1-C2-N3	5.95	132.28	129.30
1	AA	1529	G	N9-C4-C5	-5.95	103.02	105.40
6	AF	39	ARG	NE-CZ-NH2	-5.95	117.32	120.30
26	BB	72	U	N3-C4-C5	-5.95	111.03	114.60
26	BB	188	G	O4'-C1'-N9	-5.95	103.44	108.20
26	BB	284	U	C4-C5-C6	5.95	123.27	119.70
26	BB	430	A	C5'-C4'-C3'	-5.95	106.47	116.00
26	BB	549	G	C3'-C2'-C1'	5.95	106.26	101.50
26	BB	1018	U	N1-C2-O2	5.95	126.97	122.80
26	BB	1032	A	N1-C6-N6	-5.95	115.03	118.60
26	BB	1150	C	N3-C4-N4	-5.95	113.83	118.00
26	BB	1216	G	C5-C6-N1	5.95	114.48	111.50
26	BB	1461	C	N1-C2-O2	5.95	122.47	118.90
26	BB	1654	A	C4-C5-N7	-5.95	107.72	110.70
26	BB	1842	G	C4-C5-N7	5.95	113.18	110.80
26	BB	1992	G	O4'-C1'-N9	-5.95	103.44	108.20
26	BB	2669	G	C3'-C2'-C1'	5.95	106.26	101.50
39	BO	9	PHE	CB-CG-CD2	-5.95	116.63	120.80
1	AA	135	C	N3-C4-N4	5.95	122.17	118.00
1	AA	1042	A	N1-C6-N6	-5.95	115.03	118.60
26	BB	48	G	C4'-C3'-C2'	-5.95	96.65	102.60
26	BB	680	C	N3-C2-O2	-5.95	117.73	121.90
1	AA	158	G	O4'-C1'-N9	5.95	112.96	108.20
1	AA	241	G	N9-C1'-C2'	-5.95	105.45	112.00
1	AA	763	G	C6-N1-C2	-5.95	121.53	125.10
1	AA	936	C	C5-C6-N1	5.95	123.97	121.00
1	AA	1430	A	N3-C4-C5	-5.95	122.64	126.80
26	BB	128	C	C5-C4-N4	5.95	124.36	120.20
26	BB	257	C	N3-C4-N4	-5.95	113.83	118.00
26	BB	846	U	N1-C2-N3	5.95	118.47	114.90
26	BB	1184	U	C5'-C4'-O4'	5.95	116.24	109.10
26	BB	1676	A	O4'-C1'-C2'	5.95	112.95	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2229	U	C5'-C4'-O4'	5.95	116.24	109.10
44	BT	83	TYR	O-C-N	5.95	132.22	122.70
1	AA	633	G	C4-C5-N7	5.95	113.18	110.80
1	AA	677	U	N1-C2-N3	5.95	118.47	114.90
1	AA	1148	U	C5'-C4'-O4'	5.95	116.24	109.10
4	AD	27	G	C6-C5-N7	-5.95	126.83	130.40
25	BA	67	G	N1-C6-O6	-5.95	116.33	119.90
26	BB	101	A	C6-N1-C2	5.95	122.17	118.60
26	BB	132	G	N3-C4-N9	-5.95	122.43	126.00
26	BB	205	G	N9-C4-C5	5.95	107.78	105.40
26	BB	358	U	C5'-C4'-C3'	-5.95	106.48	116.00
26	BB	799	G	N9-C1'-C2'	-5.95	105.46	112.00
26	BB	1188	U	C6-N1-C2	-5.95	117.43	121.00
26	BB	1668	A	C4-C5-C6	-5.95	114.03	117.00
26	BB	1856	U	C5'-C4'-O4'	5.95	116.24	109.10
26	BB	2276	G	C1'-O4'-C4'	5.95	114.66	109.90
28	BD	244	VAL	CA-CB-CG2	5.95	119.82	110.90
1	AA	15	G	N3-C4-C5	-5.95	125.63	128.60
1	AA	389	A	N7-C8-N9	5.95	116.77	113.80
1	AA	1322	C	C5-C4-N4	-5.95	116.04	120.20
25	BA	69	G	C3'-C2'-C1'	-5.95	96.74	101.50
26	BB	72	U	C4-C5-C6	5.95	123.27	119.70
26	BB	452	G	C6-N1-C2	-5.95	121.53	125.10
26	BB	751	A	N3-C4-C5	-5.95	122.64	126.80
26	BB	1308	A	C5'-C4'-O4'	5.95	116.24	109.10
26	BB	1665	A	N1-C6-N6	5.95	122.17	118.60
26	BB	2000	C	N3-C4-N4	5.95	122.16	118.00
26	BB	2775	G	C2-N3-C4	5.95	114.87	111.90
1	AA	48	C	N3-C4-N4	5.95	122.16	118.00
1	AA	729	A	C4-C5-C6	5.95	119.97	117.00
1	AA	1032	G	P-O3'-C3'	5.95	126.84	119.70
3	AC	55	A	N1-C6-N6	5.95	122.17	118.60
26	BB	34	U	C1'-O4'-C4'	-5.95	105.14	109.90
26	BB	278	A	C2-N3-C4	5.95	113.57	110.60
26	BB	724	U	N1-C1'-C2'	-5.95	105.46	112.00
26	BB	945	A	O4'-C1'-N9	5.95	112.96	108.20
26	BB	1084	A	C6-N1-C2	-5.95	115.03	118.60
26	BB	1877	A	N1-C2-N3	5.95	132.27	129.30
26	BB	1916	A	C4-C5-N7	-5.95	107.73	110.70
26	BB	1940	U	N1-C2-O2	5.95	126.96	122.80
26	BB	2038	G	O4'-C1'-C2'	5.95	112.95	107.60
26	BB	2272	U	C4-C5-C6	5.95	123.27	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	B2	43	PHE	CB-CG-CD2	5.95	124.96	120.80
1	AA	327	A	C5-C6-N6	5.94	128.46	123.70
26	BB	988	A	C4'-C3'-C2'	5.94	108.54	102.60
26	BB	1112	G	N3-C4-N9	-5.94	122.43	126.00
26	BB	1416	G	C6-N1-C2	-5.94	121.53	125.10
26	BB	2645	G	C8-N9-C4	-5.94	104.02	106.40
1	AA	30	U	P-O3'-C3'	5.94	126.83	119.70
1	AA	513	C	C4-C5-C6	-5.94	114.43	117.40
1	AA	863	U	C5'-C4'-O4'	5.94	116.23	109.10
3	AC	58	C	C2-N1-C1'	5.94	125.34	118.80
25	BA	19	C	C6-N1-C2	-5.94	117.92	120.30
26	BB	312	G	C5-C6-O6	-5.94	125.03	128.60
26	BB	646	U	C5-C6-N1	-5.94	119.73	122.70
26	BB	1028	A	C6-N1-C2	-5.94	115.03	118.60
26	BB	1054	A	C5-C6-N1	-5.94	114.73	117.70
26	BB	1144	A	N7-C8-N9	5.94	116.77	113.80
26	BB	1166	G	O4'-C1'-N9	5.94	112.95	108.20
26	BB	1358	G	N3-C4-N9	5.94	129.56	126.00
26	BB	1397	U	C5'-C4'-O4'	5.94	116.23	109.10
26	BB	1603	A	C6-N1-C2	-5.94	115.03	118.60
26	BB	2439	A	C4'-C3'-C2'	-5.94	96.66	102.60
26	BB	2484	G	N7-C8-N9	-5.94	110.13	113.10
26	BB	2695	U	O4'-C1'-N1	5.94	112.95	108.20
26	BB	2713	U	C4-C5-C6	5.94	123.27	119.70
1	AA	599	C	C4'-C3'-C2'	-5.94	96.66	102.60
1	AA	1087	G	O4'-C1'-N9	5.94	112.95	108.20
1	AA	1142	G	N3-C2-N2	-5.94	115.74	119.90
1	AA	1239	A	C3'-C2'-C1'	-5.94	96.75	101.50
1	AA	1504	G	C4-C5-N7	-5.94	108.42	110.80
3	AC	44	U	C6-N1-C2	-5.94	117.44	121.00
17	AQ	100	TRP	NE1-CE2-CD2	-5.94	101.36	107.30
26	BB	329	G	N3-C2-N2	-5.94	115.74	119.90
26	BB	854	C	N1-C2-O2	5.94	122.47	118.90
26	BB	1572	A	C5-N7-C8	5.94	106.87	103.90
26	BB	2265	U	N3-C4-C5	5.94	118.16	114.60
26	BB	2375	G	C1'-O4'-C4'	-5.94	105.15	109.90
26	BB	2836	U	N1-C2-O2	5.94	126.96	122.80
53	B2	51	VAL	CA-CB-CG1	5.94	119.81	110.90
1	AA	26	A	N7-C8-N9	5.94	116.77	113.80
1	AA	874	G	C2-N3-C4	5.94	114.87	111.90
20	AT	52	CYS	CA-CB-SG	-5.94	103.31	114.00
26	BB	25	U	N1-C2-O2	-5.94	118.64	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	740	C	N1-C1'-C2'	5.94	121.72	114.00
26	BB	1346	G	C2-N3-C4	-5.94	108.93	111.90
26	BB	2092	U	N1-C2-O2	5.94	126.96	122.80
1	AA	320	A	C3'-C2'-C1'	5.94	106.25	101.50
1	AA	722	G	N3-C4-C5	-5.94	125.63	128.60
1	AA	820	U	OP1-P-OP2	5.94	128.51	119.60
1	AA	865	A	N7-C8-N9	5.94	116.77	113.80
1	AA	983	A	C6-C5-N7	5.94	136.46	132.30
1	AA	1190	G	N3-C4-C5	-5.94	125.63	128.60
1	AA	1219	A	N9-C1'-C2'	-5.94	105.47	112.00
1	AA	1496	C	C5'-C4'-O4'	5.94	116.23	109.10
12	AL	11	ARG	NE-CZ-NH2	5.94	123.27	120.30
15	AO	65	TYR	CB-CG-CD2	-5.94	117.44	121.00
26	BB	105	C	C2-N3-C4	-5.94	116.93	119.90
26	BB	1117	C	C5-C4-N4	5.94	124.36	120.20
26	BB	1157	G	O5'-P-OP2	-5.94	100.36	105.70
26	BB	1672	A	C4-C5-C6	5.94	119.97	117.00
26	BB	1826	G	C5'-C4'-C3'	-5.94	106.50	116.00
26	BB	1938	A	N7-C8-N9	5.94	116.77	113.80
26	BB	2182	U	C5'-C4'-O4'	5.94	116.22	109.10
26	BB	2444	G	N3-C4-C5	-5.94	125.63	128.60
26	BB	2483	C	C1'-O4'-C4'	-5.94	105.15	109.90
1	AA	263	A	C4-C5-C6	5.94	119.97	117.00
1	AA	1139	G	N3-C4-C5	-5.94	125.63	128.60
1	AA	1291	U	C5'-C4'-O4'	5.94	116.22	109.10
1	AA	1421	G	N3-C2-N2	-5.94	115.75	119.90
4	AD	9	G	C6-N1-C2	-5.94	121.54	125.10
11	AK	8	ASP	CB-CG-OD2	-5.94	112.96	118.30
26	BB	121	G	O4'-C1'-N9	-5.94	103.45	108.20
26	BB	2256	G	O4'-C1'-N9	5.94	112.95	108.20
1	AA	93	U	N3-C2-O2	-5.93	118.05	122.20
1	AA	341	C	N1-C1'-C2'	-5.93	105.47	112.00
26	BB	72	U	N3-C4-O4	5.93	123.55	119.40
26	BB	652	U	C5-C4-O4	-5.93	122.34	125.90
26	BB	977	G	C5-C6-O6	-5.93	125.04	128.60
26	BB	987	C	N3-C2-O2	-5.93	117.75	121.90
26	BB	1261	C	O4'-C1'-N1	5.93	112.95	108.20
26	BB	1365	A	C2-N3-C4	5.93	113.57	110.60
26	BB	2194	U	C4'-C3'-C2'	-5.93	96.67	102.60
26	BB	2221	G	C4-C5-C6	-5.93	115.24	118.80
26	BB	2508	G	C5-C6-O6	-5.93	125.04	128.60
26	BB	2610	C	C2-N1-C1'	5.93	125.33	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	392	C	C3'-C2'-C1'	-5.93	96.75	101.50
2	AB	63	C	P-O3'-C3'	5.93	126.82	119.70
25	BA	18	G	N3-C2-N2	-5.93	115.75	119.90
25	BA	45	A	C4-C5-N7	-5.93	107.73	110.70
26	BB	242	G	C1'-O4'-C4'	-5.93	105.15	109.90
26	BB	308	G	C5-N7-C8	-5.93	101.33	104.30
26	BB	1300	G	C1'-O4'-C4'	-5.93	105.15	109.90
26	BB	2708	G	C5-N7-C8	-5.93	101.33	104.30
26	BB	2826	A	C4'-C3'-C2'	-5.93	96.67	102.60
1	AA	485	U	C2-N1-C1'	-5.93	110.58	117.70
1	AA	1035	A	C8-N9-C4	-5.93	103.43	105.80
1	AA	1181	G	C1'-O4'-C4'	-5.93	105.16	109.90
26	BB	775	G	C3'-C2'-C1'	-5.93	96.75	101.50
26	BB	2413	G	C5-N7-C8	-5.93	101.33	104.30
26	BB	2425	A	C5-N7-C8	5.93	106.86	103.90
26	BB	2455	G	C5-C6-N1	-5.93	108.53	111.50
26	BB	2719	G	C3'-C2'-C1'	5.93	106.25	101.50
50	BZ	51	SER	CB-CA-C	5.93	121.37	110.10
1	AA	517	G	C5'-C4'-C3'	-5.93	106.51	116.00
1	AA	673	A	N9-C4-C5	5.93	108.17	105.80
2	AB	5	G	N1-C2-N2	5.93	121.54	116.20
26	BB	109	C	C4-C5-C6	-5.93	114.44	117.40
26	BB	299	A	C5-C6-N1	-5.93	114.73	117.70
26	BB	604	G	C4-C5-N7	-5.93	108.43	110.80
26	BB	616	A	C2-N3-C4	5.93	113.56	110.60
26	BB	1216	G	C4-C5-N7	-5.93	108.43	110.80
26	BB	1470	A	C5-C6-N1	5.93	120.67	117.70
26	BB	1647	U	N1-C1'-C2'	5.93	121.71	114.00
26	BB	1647	U	N3-C2-O2	-5.93	118.05	122.20
26	BB	1734	G	C6-N1-C2	-5.93	121.54	125.10
26	BB	1807	G	C6-N1-C2	-5.93	121.54	125.10
26	BB	1988	G	C4-C5-C6	5.93	122.36	118.80
26	BB	2657	A	C5-N7-C8	-5.93	100.94	103.90
1	AA	151	A	N9-C4-C5	5.93	108.17	105.80
1	AA	318	G	C5-C6-O6	-5.93	125.04	128.60
1	AA	695	A	C4-C5-C6	5.93	119.96	117.00
1	AA	1527	U	N1-C2-O2	5.93	126.95	122.80
26	BB	578	G	C8-N9-C4	-5.93	104.03	106.40
26	BB	741	U	C6-N1-C2	-5.93	117.44	121.00
26	BB	1087	G	N1-C6-O6	-5.93	116.34	119.90
26	BB	1299	G	N9-C4-C5	5.93	107.77	105.40
26	BB	1531	C	C5'-C4'-O4'	5.93	116.21	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1791	A	C4'-C3'-C2'	-5.93	96.67	102.60
26	BB	2117	A	C5'-C4'-O4'	5.93	116.21	109.10
42	BR	90	ALA	CB-CA-C	5.93	118.99	110.10
1	AA	421	U	N1-C2-N3	5.93	118.46	114.90
1	AA	851	G	N9-C4-C5	-5.93	103.03	105.40
1	AA	901	A	N7-C8-N9	5.93	116.76	113.80
1	AA	1458	G	O4'-C4'-C3'	5.93	110.84	106.10
4	AD	18	U	C3'-C2'-C1'	-5.93	96.76	101.50
26	BB	164	C	C6-N1-C1'	5.93	127.91	120.80
26	BB	367	G	N1-C2-N3	-5.93	120.34	123.90
26	BB	821	A	O4'-C1'-N9	5.93	112.94	108.20
26	BB	918	A	N1-C6-N6	5.93	122.16	118.60
26	BB	1319	C	N1-C2-O2	5.93	122.45	118.90
26	BB	1377	G	N3-C2-N2	-5.93	115.75	119.90
26	BB	1523	U	C2-N1-C1'	-5.93	110.59	117.70
26	BB	1679	A	P-O3'-C3'	5.93	126.81	119.70
26	BB	2527	C	N3-C4-N4	5.93	122.15	118.00
26	BB	2782	G	C4-C5-N7	5.93	113.17	110.80
26	BB	2789	C	N3-C4-N4	5.93	122.15	118.00
1	AA	119	A	C6-C5-N7	5.92	136.45	132.30
1	AA	664	G	C5-N7-C8	5.92	107.26	104.30
1	AA	783	C	C3'-C2'-C1'	-5.92	96.76	101.50
1	AA	986	U	C3'-C2'-C1'	5.92	106.24	101.50
1	AA	1067	A	C1'-O4'-C4'	-5.92	105.16	109.90
1	AA	1093	A	O4'-C1'-N9	5.92	112.94	108.20
1	AA	1387	G	C6-N1-C2	-5.92	121.55	125.10
26	BB	429	A	C2-N3-C4	5.92	113.56	110.60
26	BB	488	G	C5-N7-C8	-5.92	101.34	104.30
26	BB	586	A	N7-C8-N9	-5.92	110.84	113.80
26	BB	1054	A	N7-C8-N9	5.92	116.76	113.80
26	BB	1172	C	N1-C2-O2	5.92	122.45	118.90
26	BB	1238	G	N1-C2-N2	5.92	121.53	116.20
26	BB	1337	G	C5-N7-C8	5.92	107.26	104.30
26	BB	2771	C	C6-N1-C2	-5.92	117.93	120.30
1	AA	658	C	C6-N1-C2	5.92	122.67	120.30
1	AA	1265	C	C5'-C4'-C3'	5.92	125.48	116.00
26	BB	1525	A	C1'-O4'-C4'	5.92	114.64	109.90
26	BB	1665	A	C2'-C3'-O3'	5.92	123.18	113.70
26	BB	1905	C	C5-C6-N1	-5.92	118.04	121.00
1	AA	186	C	C1'-O4'-C4'	5.92	114.64	109.90
1	AA	1053	G	N7-C8-N9	5.92	116.06	113.10
1	AA	1227	A	C5-C6-N6	-5.92	118.96	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	57	G	N7-C8-N9	5.92	116.06	113.10
26	BB	1153	C	C6-N1-C2	-5.92	117.93	120.30
26	BB	2034	U	O4'-C1'-N1	-5.92	103.46	108.20
26	BB	2158	A	N7-C8-N9	5.92	116.76	113.80
26	BB	2699	C	C1'-O4'-C4'	5.92	114.64	109.90
26	BB	1272	A	N7-C8-N9	-5.92	110.84	113.80
26	BB	1530	G	N9-C4-C5	-5.92	103.03	105.40
26	BB	1807	G	P-O3'-C3'	5.92	126.80	119.70
26	BB	1896	G	C5-N7-C8	-5.92	101.34	104.30
26	BB	2167	U	N1-C2-O2	5.92	126.94	122.80
32	BH	82	PHE	CD1-CG-CD2	5.92	126.00	118.30
1	AA	415	A	O4'-C4'-C3'	-5.92	98.08	104.00
1	AA	669	G	O4'-C1'-N9	5.92	112.94	108.20
1	AA	897	C	C2-N1-C1'	-5.92	112.29	118.80
1	AA	1013	G	C3'-C2'-C1'	-5.92	96.77	101.50
1	AA	1189	U	O5'-C5'-C4'	-5.92	100.46	111.70
1	AA	1191	A	N1-C2-N3	-5.92	126.34	129.30
1	AA	1193	G	C4-C5-N7	-5.92	108.43	110.80
1	AA	1362	A	N7-C8-N9	5.92	116.76	113.80
25	BA	36	C	C4'-C3'-C2'	-5.92	96.68	102.60
26	BB	82	U	C2-N3-C4	-5.92	123.45	127.00
26	BB	209	C	C6-N1-C2	5.92	122.67	120.30
26	BB	246	C	O4'-C1'-N1	5.92	112.94	108.20
26	BB	262	A	C2-N3-C4	5.92	113.56	110.60
26	BB	869	G	C5'-C4'-C3'	-5.92	106.53	116.00
26	BB	1000	A	N9-C4-C5	5.92	108.17	105.80
26	BB	1588	G	C6-N1-C2	-5.92	121.55	125.10
26	BB	2264	C	O4'-C1'-N1	5.92	112.93	108.20
26	BB	2627	G	C8-N9-C1'	5.92	134.69	127.00
26	BB	2703	C	C4'-C3'-C2'	-5.92	96.68	102.60
1	AA	303	A	N7-C8-N9	5.92	116.76	113.80
1	AA	314	C	N3-C2-O2	-5.92	117.76	121.90
1	AA	336	A	N9-C1'-C2'	-5.92	105.49	112.00
1	AA	475	C	N1-C2-N3	-5.92	115.06	119.20
1	AA	509	A	C4-C5-N7	5.92	113.66	110.70
1	AA	547	A	N9-C4-C5	5.92	108.17	105.80
1	AA	648	A	N9-C4-C5	5.92	108.17	105.80
1	AA	1069	C	N3-C4-N4	5.92	122.14	118.00
4	AD	44	A	N1-C6-N6	-5.92	115.05	118.60
26	BB	45	G	C5'-C4'-O4'	5.92	116.20	109.10
26	BB	87	U	N1-C1'-C2'	-5.92	105.49	112.00
26	BB	447	A	P-O3'-C3'	5.92	126.80	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	587	C	C5'-C4'-O4'	-5.92	102.00	109.10
26	BB	1116	G	C4-C5-N7	-5.92	108.43	110.80
26	BB	1389	G	N3-C4-C5	-5.92	125.64	128.60
26	BB	1440	U	N1-C1'-C2'	-5.92	105.49	112.00
26	BB	2627	G	N1-C2-N3	-5.92	120.35	123.90
40	BP	122	ALA	CB-CA-C	5.92	118.97	110.10
1	AA	894	G	C4-C5-N7	-5.92	108.43	110.80
4	AD	32	G	N3-C2-N2	-5.92	115.76	119.90
26	BB	486	C	C4-C5-C6	5.92	120.36	117.40
26	BB	765	C	C5-C6-N1	5.92	123.96	121.00
26	BB	982	C	N3-C4-C5	-5.92	119.53	121.90
26	BB	1064	C	C5'-C4'-O4'	5.92	116.20	109.10
26	BB	1192	G	C1'-O4'-C4'	-5.92	105.17	109.90
26	BB	1346	G	C5-C6-O6	5.92	132.15	128.60
26	BB	2380	C	O4'-C1'-N1	5.92	112.93	108.20
1	AA	139	A	C6-N1-C2	5.91	122.15	118.60
1	AA	980	C	C4'-C3'-C2'	-5.91	96.69	102.60
1	AA	1015	G	C1'-O4'-C4'	5.91	114.63	109.90
1	AA	1067	A	C3'-C2'-C1'	-5.91	96.77	101.50
6	AF	183	TYR	CG-CD1-CE1	-5.91	116.57	121.30
26	BB	783	A	C6-N1-C2	-5.91	115.05	118.60
26	BB	786	C	N1-C2-N3	-5.91	115.06	119.20
26	BB	1140	C	C2'-C3'-O3'	5.91	123.16	113.70
26	BB	2055	C	C5-C6-N1	-5.91	118.04	121.00
26	BB	2615	U	N1-C1'-C2'	-5.91	105.49	112.00
26	BB	2848	G	N3-C4-C5	-5.91	125.64	128.60
26	BB	2853	C	C5-C6-N1	-5.91	118.04	121.00
1	AA	467	U	C1'-O4'-C4'	-5.91	105.17	109.90
1	AA	580	C	N3-C2-O2	-5.91	117.76	121.90
1	AA	785	G	C2-N3-C4	5.91	114.86	111.90
1	AA	1088	G	N3-C2-N2	-5.91	115.76	119.90
26	BB	203	A	C6-N1-C2	5.91	122.15	118.60
26	BB	295	G	P-O5'-C5'	5.91	130.36	120.90
26	BB	575	A	N7-C8-N9	-5.91	110.84	113.80
26	BB	1975	G	N3-C4-N9	-5.91	122.45	126.00
26	BB	2717	C	N1-C2-N3	-5.91	115.06	119.20
1	AA	47	C	N3-C4-C5	-5.91	119.54	121.90
1	AA	231	U	N1-C2-O2	5.91	126.94	122.80
1	AA	296	U	C4'-C3'-C2'	5.91	108.51	102.60
1	AA	632	U	C1'-O4'-C4'	-5.91	105.17	109.90
1	AA	736	C	C5-C4-N4	-5.91	116.06	120.20
1	AA	741	G	N3-C4-C5	-5.91	125.64	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	763	G	N3-C4-C5	-5.91	125.64	128.60
1	AA	1358	U	C5'-C4'-C3'	5.91	125.46	116.00
26	BB	812	C	C3'-C2'-C1'	5.91	106.23	101.50
26	BB	857	G	N9-C4-C5	5.91	107.76	105.40
26	BB	1860	G	N9-C1'-C2'	-5.91	105.50	112.00
26	BB	2040	G	P-O3'-C3'	5.91	126.79	119.70
26	BB	2094	A	C8-N9-C4	-5.91	103.44	105.80
26	BB	2161	C	N3-C4-C5	-5.91	119.54	121.90
26	BB	2875	C	C5-C4-N4	5.91	124.34	120.20
1	AA	29	U	N1-C1'-C2'	-5.91	105.50	112.00
1	AA	724	G	N3-C4-C5	-5.91	125.64	128.60
1	AA	874	G	N9-C1'-C2'	-5.91	105.50	112.00
1	AA	1057	G	O4'-C1'-C2'	-5.91	99.89	105.80
1	AA	1278	G	C6-N1-C2	-5.91	121.56	125.10
1	AA	1288	A	C4'-C3'-C2'	-5.91	96.69	102.60
1	AA	1290	G	C6-N1-C2	-5.91	121.56	125.10
17	AQ	60	ARG	NE-CZ-NH2	-5.91	117.34	120.30
26	BB	356	G	C2-N3-C4	5.91	114.85	111.90
26	BB	1556	C	N3-C2-O2	-5.91	117.76	121.90
26	BB	1924	C	N3-C4-N4	5.91	122.14	118.00
26	BB	1938	A	O4'-C1'-N9	5.91	112.93	108.20
26	BB	1982	U	N1-C2-N3	5.91	118.44	114.90
26	BB	2020	A	C2-N3-C4	5.91	113.56	110.60
1	AA	1331	G	C4'-C3'-C2'	-5.91	96.69	102.60
2	AB	19	G	C8-N9-C4	-5.91	104.04	106.40
26	BB	784	G	C6-N1-C2	-5.91	121.56	125.10
26	BB	1259	G	N1-C2-N2	-5.91	110.88	116.20
26	BB	1465	G	N1-C6-O6	5.91	123.44	119.90
26	BB	2262	U	C1'-O4'-C4'	5.91	114.63	109.90
26	BB	2298	A	N1-C2-N3	5.91	132.25	129.30
1	AA	76	G	N9-C4-C5	-5.91	103.04	105.40
1	AA	158	G	C1'-O4'-C4'	-5.91	105.18	109.90
1	AA	561	U	C6-N1-C2	-5.91	117.46	121.00
1	AA	735	C	C1'-O4'-C4'	-5.91	105.18	109.90
1	AA	1094	G	C5'-C4'-C3'	-5.91	106.55	116.00
1	AA	1238	A	C8-N9-C4	-5.91	103.44	105.80
1	AA	1385	G	C4-C5-N7	5.91	113.16	110.80
26	BB	68	G	C4'-C3'-C2'	-5.91	96.69	102.60
26	BB	248	G	N3-C4-N9	-5.91	122.46	126.00
26	BB	372	G	N9-C1'-C2'	5.91	121.68	114.00
26	BB	722	A	C5-N7-C8	-5.91	100.95	103.90
26	BB	1316	U	O4'-C1'-N1	5.91	112.92	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1353	A	C5-C6-N1	5.91	120.65	117.70
26	BB	1467	U	C2-N3-C4	-5.91	123.46	127.00
26	BB	1582	C	O4'-C1'-C2'	-5.91	99.89	105.80
26	BB	1601	G	N3-C2-N2	5.91	124.03	119.90
26	BB	1796	U	N1-C2-O2	5.91	126.93	122.80
26	BB	2016	U	C6-N1-C2	-5.91	117.46	121.00
26	BB	2199	A	C6-C5-N7	-5.91	128.17	132.30
39	BO	117	PHE	CB-CG-CD1	5.91	124.93	120.80
1	AA	228	A	O4'-C1'-N9	5.90	112.92	108.20
1	AA	837	U	N1-C2-N3	5.90	118.44	114.90
10	AJ	116	ALA	N-CA-CB	-5.90	101.83	110.10
26	BB	1035	U	C5'-C4'-O4'	5.90	116.18	109.10
26	BB	1369	G	N1-C2-N3	-5.90	120.36	123.90
26	BB	1690	A	C6-N1-C2	-5.90	115.06	118.60
1	AA	747	A	C1'-O4'-C4'	5.90	114.62	109.90
1	AA	928	G	O4'-C1'-N9	5.90	112.92	108.20
26	BB	371	A	C5'-C4'-O4'	-5.90	102.02	109.10
26	BB	417	C	C6-N1-C2	-5.90	117.94	120.30
26	BB	509	C	N3-C4-C5	-5.90	119.54	121.90
26	BB	1183	U	C5-C6-N1	-5.90	119.75	122.70
26	BB	1201	U	O3'-P-O5'	-5.90	92.78	104.00
26	BB	1232	G	C8-N9-C4	-5.90	104.04	106.40
26	BB	1403	A	N9-C4-C5	-5.90	103.44	105.80
26	BB	1469	A	C4-C5-C6	-5.90	114.05	117.00
26	BB	2428	G	O4'-C1'-N9	5.90	112.92	108.20
26	BB	2669	G	N9-C1'-C2'	-5.90	105.51	112.00
1	AA	185	U	O4'-C1'-C2'	5.90	112.91	107.60
1	AA	301	G	N9-C4-C5	-5.90	103.04	105.40
1	AA	469	C	C2-N3-C4	-5.90	116.95	119.90
1	AA	486	U	C6-N1-C2	5.90	124.54	121.00
1	AA	561	U	O4'-C4'-C3'	5.90	110.82	106.10
1	AA	782	A	P-O3'-C3'	5.90	126.78	119.70
1	AA	1011	C	N1-C1'-C2'	-5.90	105.51	112.00
1	AA	1285	A	C2-N3-C4	5.90	113.55	110.60
1	AA	1522	U	N3-C2-O2	-5.90	118.07	122.20
25	BA	86	G	C3'-C2'-C1'	-5.90	96.78	101.50
26	BB	13	A	O4'-C1'-C2'	-5.90	99.90	105.80
26	BB	789	A	C4-C5-N7	-5.90	107.75	110.70
26	BB	1463	C	C4-C5-C6	-5.90	114.45	117.40
26	BB	1501	G	C5-C6-O6	-5.90	125.06	128.60
26	BB	1691	C	N1-C2-N3	5.90	123.33	119.20
26	BB	1908	C	C2-N1-C1'	5.90	125.29	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2207	C	C5'-C4'-C3'	-5.90	106.56	116.00
26	BB	2290	G	C6-C5-N7	-5.90	126.86	130.40
26	BB	2367	G	C4-C5-C6	5.90	122.34	118.80
26	BB	2521	C	N3-C4-N4	-5.90	113.87	118.00
26	BB	2637	U	C5-C4-O4	-5.90	122.36	125.90
26	BB	2745	C	C5-C4-N4	-5.90	116.07	120.20
26	BB	2862	G	N9-C1'-C2'	-5.90	105.51	112.00
1	AA	1269	A	N9-C1'-C2'	-5.90	105.51	112.00
1	AA	1362	A	P-O3'-C3'	5.90	126.78	119.70
26	BB	457	A	C5-N7-C8	5.90	106.85	103.90
26	BB	1168	G	C5-C6-O6	-5.90	125.06	128.60
26	BB	1619	G	N3-C4-N9	5.90	129.54	126.00
26	BB	1991	U	C1'-O4'-C4'	-5.90	105.18	109.90
1	AA	229	U	N1-C2-N3	5.90	118.44	114.90
1	AA	767	A	O4'-C1'-N9	5.90	112.92	108.20
1	AA	869	G	N3-C4-N9	5.90	129.54	126.00
10	AJ	95	ARG	NH1-CZ-NH2	5.90	125.89	119.40
25	BA	32	U	O4'-C1'-C2'	5.90	112.91	107.60
26	BB	282	A	C6-C5-N7	5.90	136.43	132.30
26	BB	425	G	C4-C5-C6	-5.90	115.26	118.80
26	BB	1102	C	O4'-C4'-C3'	-5.90	98.10	104.00
26	BB	1143	A	C4-C5-C6	-5.90	114.05	117.00
26	BB	1687	G	C4-C5-C6	-5.90	115.26	118.80
26	BB	1752	C	N1-C2-N3	5.90	123.33	119.20
26	BB	2663	G	C5-C6-N1	-5.90	108.55	111.50
1	AA	58	C	O4'-C1'-N1	5.90	112.92	108.20
1	AA	1141	C	C2-N3-C4	-5.90	116.95	119.90
1	AA	1186	G	O4'-C1'-N9	5.90	112.92	108.20
26	BB	119	A	C5-C6-N6	5.90	128.42	123.70
26	BB	819	A	C4-C5-N7	5.90	113.65	110.70
26	BB	1445	G	N3-C2-N2	-5.90	115.77	119.90
26	BB	1952	A	C5-N7-C8	-5.90	100.95	103.90
26	BB	1969	A	N9-C4-C5	5.90	108.16	105.80
26	BB	2094	A	P-O3'-C3'	5.90	126.78	119.70
1	AA	44	A	N7-C8-N9	-5.89	110.85	113.80
1	AA	139	A	C4-C5-C6	-5.89	114.05	117.00
1	AA	264	C	N3-C2-O2	-5.89	117.77	121.90
1	AA	292	G	N7-C8-N9	5.89	116.05	113.10
1	AA	1263	C	N1-C2-N3	5.89	123.33	119.20
2	AB	71	C	C5-C6-N1	5.89	123.95	121.00
14	AN	126	ARG	CD-NE-CZ	5.89	131.85	123.60
25	BA	2	G	N1-C2-N3	-5.89	120.36	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	364	C	N3-C4-N4	5.89	122.13	118.00
26	BB	457	A	N7-C8-N9	-5.89	110.85	113.80
26	BB	459	U	C2-N3-C4	5.89	130.54	127.00
26	BB	493	G	N1-C2-N3	5.89	127.44	123.90
26	BB	575	A	N1-C2-N3	-5.89	126.35	129.30
26	BB	732	C	C4'-C3'-C2'	-5.89	96.70	102.60
26	BB	1268	A	N1-C2-N3	-5.89	126.35	129.30
26	BB	1343	G	C1'-O4'-C4'	-5.89	105.18	109.90
26	BB	1684	G	C5-C6-O6	-5.89	125.06	128.60
26	BB	2047	C	N3-C4-N4	5.89	122.13	118.00
26	BB	2113	U	N3-C4-O4	5.89	123.53	119.40
26	BB	2213	U	C6-N1-C2	-5.89	117.46	121.00
26	BB	2225	A	C5'-C4'-C3'	-5.89	106.57	116.00
26	BB	2591	C	C4'-C3'-C2'	-5.89	96.71	102.60
26	BB	2725	A	C2-N3-C4	5.89	113.55	110.60
38	BN	64	PHE	CB-CG-CD2	5.89	124.93	120.80
1	AA	628	G	N1-C2-N3	5.89	127.44	123.90
1	AA	806	C	C3'-C2'-C1'	-5.89	96.79	101.50
1	AA	811	C	N3-C4-N4	5.89	122.12	118.00
1	AA	1039	G	C4'-C3'-C2'	-5.89	96.71	102.60
25	BA	86	G	O4'-C1'-C2'	5.89	112.90	107.60
26	BB	40	U	C2-N3-C4	-5.89	123.46	127.00
26	BB	145	C	C5-C6-N1	-5.89	118.05	121.00
26	BB	219	A	C2-N3-C4	-5.89	107.65	110.60
26	BB	515	A	C1'-O4'-C4'	5.89	114.61	109.90
26	BB	1408	G	N9-C1'-C2'	-5.89	105.52	112.00
26	BB	1622	G	C3'-C2'-C1'	5.89	106.22	101.50
26	BB	1844	C	C6-N1-C2	-5.89	117.94	120.30
26	BB	1996	C	N1-C2-N3	5.89	123.33	119.20
26	BB	2345	G	C4-C5-C6	5.89	122.34	118.80
26	BB	2443	C	N3-C4-N4	5.89	122.12	118.00
26	BB	2505	G	O3'-P-O5'	-5.89	92.80	104.00
26	BB	2764	A	C5'-C4'-O4'	5.89	116.17	109.10
1	AA	77	A	C5'-C4'-O4'	5.89	116.17	109.10
1	AA	103	U	O4'-C1'-N1	5.89	112.91	108.20
1	AA	455	G	N7-C8-N9	5.89	116.05	113.10
1	AA	1135	U	O3'-P-O5'	5.89	115.19	104.00
26	BB	193	U	N1-C1'-C2'	-5.89	105.52	112.00
26	BB	858	G	C8-N9-C4	-5.89	104.04	106.40
26	BB	1979	U	O4'-C1'-N1	5.89	112.91	108.20
26	BB	2167	U	P-O5'-C5'	5.89	130.33	120.90
26	BB	2613	U	C6-N1-C2	-5.89	117.47	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2722	G	C4-C5-N7	-5.89	108.44	110.80
1	AA	63	C	C2-N1-C1'	5.89	125.28	118.80
1	AA	366	A	C2'-C3'-O3'	5.89	123.12	113.70
1	AA	944	G	C5-C6-O6	-5.89	125.07	128.60
1	AA	1054	C	N3-C4-N4	5.89	122.12	118.00
1	AA	1162	C	C5'-C4'-O4'	5.89	116.17	109.10
4	AD	9	G	O4'-C1'-C2'	-5.89	99.91	105.80
25	BA	50	A	C5'-C4'-O4'	-5.89	102.03	109.10
25	BA	89	U	C3'-C2'-C1'	5.89	106.21	101.50
26	BB	484	C	N3-C2-O2	-5.89	117.78	121.90
26	BB	1212	G	C6-C5-N7	-5.89	126.87	130.40
26	BB	1868	C	N1-C2-N3	5.89	123.32	119.20
26	BB	2109	U	C5-C4-O4	-5.89	122.37	125.90
26	BB	2168	G	C4-N9-C1'	-5.89	118.84	126.50
26	BB	2196	C	N3-C2-O2	-5.89	117.78	121.90
26	BB	2263	C	N1-C2-O2	5.89	122.43	118.90
26	BB	2420	C	N3-C2-O2	-5.89	117.78	121.90
26	BB	2646	C	O4'-C1'-N1	5.89	112.91	108.20
26	BB	2755	C	C5-C6-N1	5.89	123.94	121.00
1	AA	856	C	C4-C5-C6	-5.89	114.46	117.40
1	AA	1195	C	P-O3'-C3'	5.89	126.77	119.70
1	AA	1452	C	C1'-O4'-C4'	-5.89	105.19	109.90
4	AD	30	G	O4'-C1'-N9	5.89	112.91	108.20
12	AL	40	ARG	NE-CZ-NH2	5.89	123.24	120.30
26	BB	108	G	C2-N3-C4	5.89	114.84	111.90
26	BB	138	U	N1-C2-O2	5.89	126.92	122.80
26	BB	229	C	C5'-C4'-C3'	5.89	125.42	116.00
26	BB	877	A	C1'-O4'-C4'	-5.89	105.19	109.90
26	BB	926	G	O4'-C1'-N9	5.89	112.91	108.20
26	BB	1670	C	P-O3'-C3'	5.89	126.77	119.70
26	BB	1968	G	N9-C1'-C2'	-5.89	105.52	112.00
26	BB	2681	C	C2-N3-C4	5.89	122.84	119.90
1	AA	224	U	C6-N1-C2	-5.89	117.47	121.00
1	AA	281	G	C6-N1-C2	-5.89	121.57	125.10
5	AE	76	SER	CB-CA-C	5.89	121.28	110.10
25	BA	117	G	C4-C5-C6	5.89	122.33	118.80
26	BB	12	U	C1'-O4'-C4'	5.89	114.61	109.90
26	BB	75	G	O5'-C5'-C4'	-5.89	100.52	111.70
26	BB	352	A	C4-C5-N7	5.89	113.64	110.70
26	BB	370	G	C5-C6-N1	5.89	114.44	111.50
26	BB	497	A	C4'-C3'-C2'	-5.89	96.71	102.60
26	BB	729	G	C5-C6-N1	-5.89	108.56	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	999	U	O4'-C1'-N1	5.89	112.91	108.20
26	BB	1190	G	N7-C8-N9	5.89	116.04	113.10
26	BB	1261	C	C5-C6-N1	5.89	123.94	121.00
26	BB	1857	G	C1'-O4'-C4'	-5.89	105.19	109.90
26	BB	2131	U	C3'-C2'-C1'	5.89	106.21	101.50
26	BB	2189	U	O4'-C4'-C3'	5.89	110.81	106.10
26	BB	2685	G	C5'-C4'-O4'	5.89	116.16	109.10
26	BB	2792	A	N1-C2-N3	-5.89	126.36	129.30
32	BH	41	GLU	OE1-CD-OE2	5.89	130.36	123.30
34	BJ	105	PHE	CB-CG-CD1	-5.89	116.68	120.80
48	BX	82	TYR	CB-CG-CD2	-5.89	117.47	121.00
1	AA	168	G	C6-C5-N7	-5.88	126.87	130.40
25	BA	11	C	N1-C2-O2	5.88	122.43	118.90
25	BA	98	G	N9-C4-C5	5.88	107.75	105.40
26	BB	45	G	C6-N1-C2	-5.88	121.57	125.10
26	BB	722	A	C5'-C4'-C3'	5.88	125.41	116.00
26	BB	828	U	C2-N1-C1'	5.88	124.76	117.70
26	BB	943	A	C8-N9-C4	-5.88	103.45	105.80
26	BB	1258	U	N3-C2-O2	-5.88	118.08	122.20
26	BB	1607	C	C4-C5-C6	5.88	120.34	117.40
5	AE	17	HIS	CA-CB-CG	5.88	123.60	113.60
26	BB	386	G	N3-C4-N9	5.88	129.53	126.00
26	BB	730	A	N1-C2-N3	5.88	132.24	129.30
26	BB	1009	A	P-O3'-C3'	5.88	126.76	119.70
26	BB	1173	U	P-O3'-C3'	5.88	126.76	119.70
26	BB	1921	G	C5-N7-C8	5.88	107.24	104.30
28	BD	211	ARG	O-C-N	5.88	132.11	122.70
1	AA	15	G	N9-C4-C5	5.88	107.75	105.40
1	AA	457	G	C5'-C4'-O4'	5.88	116.16	109.10
1	AA	561	U	C4'-C3'-C2'	-5.88	96.72	102.60
1	AA	618	C	P-O3'-C3'	5.88	126.76	119.70
1	AA	763	G	C2-N3-C4	5.88	114.84	111.90
1	AA	1282	C	C5-C6-N1	5.88	123.94	121.00
1	AA	1292	G	C5-N7-C8	-5.88	101.36	104.30
1	AA	1317	C	C4-C5-C6	-5.88	114.46	117.40
1	AA	1426	G	C4'-C3'-C2'	-5.88	96.72	102.60
26	BB	13	A	O4'-C1'-N9	-5.88	103.49	108.20
26	BB	55	G	C3'-C2'-C1'	5.88	106.20	101.50
26	BB	83	A	C3'-C2'-C1'	5.88	106.20	101.50
26	BB	290	U	C5'-C4'-C3'	-5.88	106.59	116.00
26	BB	2122	U	P-O3'-C3'	5.88	126.76	119.70
26	BB	2478	A	C2-N3-C4	-5.88	107.66	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	580	C	O4'-C1'-N1	5.88	112.90	108.20
1	AA	590	U	N3-C4-O4	-5.88	115.28	119.40
26	BB	561	G	C2'-C3'-O3'	5.88	123.11	113.70
26	BB	785	G	N1-C6-O6	-5.88	116.37	119.90
26	BB	809	G	C5-C6-N1	5.88	114.44	111.50
26	BB	907	G	C8-N9-C4	-5.88	104.05	106.40
26	BB	1031	G	C5-C6-N1	5.88	114.44	111.50
26	BB	1387	A	P-O3'-C3'	5.88	126.76	119.70
26	BB	1677	A	C4'-C3'-C2'	-5.88	96.72	102.60
26	BB	1743	G	C5-C6-O6	-5.88	125.07	128.60
26	BB	2506	U	N1-C1'-C2'	-5.88	105.53	112.00
26	BB	2611	C	C4'-C3'-C2'	-5.88	96.72	102.60
26	BB	2882	A	N9-C4-C5	-5.88	103.45	105.80
1	AA	226	G	N7-C8-N9	5.88	116.04	113.10
1	AA	666	G	N7-C8-N9	5.88	116.04	113.10
1	AA	763	G	N3-C4-N9	5.88	129.53	126.00
1	AA	1104	G	C5'-C4'-O4'	5.88	116.16	109.10
1	AA	1110	A	C2-N3-C4	5.88	113.54	110.60
1	AA	1245	C	P-O3'-C3'	5.88	126.75	119.70
4	AD	12	G	N1-C2-N3	5.88	127.43	123.90
4	AD	36	A	C5-C6-N6	-5.88	119.00	123.70
25	BA	89	U	C6-N1-C1'	-5.88	112.97	121.20
25	BA	98	G	O4'-C1'-N9	5.88	112.90	108.20
26	BB	488	G	N7-C8-N9	5.88	116.04	113.10
26	BB	1067	A	N3-C4-C5	-5.88	122.69	126.80
26	BB	1338	G	N1-C6-O6	5.88	123.43	119.90
26	BB	1341	G	C4-C5-N7	-5.88	108.45	110.80
26	BB	1353	A	C5'-C4'-O4'	5.88	116.15	109.10
26	BB	1403	A	C1'-O4'-C4'	5.88	114.60	109.90
26	BB	1559	U	N1-C2-N3	5.88	118.43	114.90
26	BB	1782	U	C1'-O4'-C4'	-5.88	105.20	109.90
26	BB	2217	G	C6-N1-C2	-5.88	121.57	125.10
26	BB	2465	C	O4'-C1'-N1	5.88	112.90	108.20
1	AA	318	G	N3-C4-N9	5.88	129.53	126.00
1	AA	404	G	N1-C2-N2	-5.88	110.91	116.20
1	AA	1019	A	N9-C4-C5	5.88	108.15	105.80
1	AA	1202	U	N3-C4-C5	-5.88	111.07	114.60
1	AA	1377	A	N1-C6-N6	-5.88	115.07	118.60
2	AB	9	A	O4'-C1'-N9	-5.88	103.50	108.20
3	AC	52	U	C5-C6-N1	5.88	125.64	122.70
4	AD	54	G	N1-C6-O6	5.88	123.43	119.90
4	AD	61	U	O3'-P-O5'	-5.88	92.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	16	G	N1-C2-N3	-5.88	120.37	123.90
26	BB	291	G	C4-C5-C6	5.88	122.33	118.80
26	BB	410	G	P-O3'-C3'	5.88	126.75	119.70
26	BB	560	C	N3-C2-O2	-5.88	117.79	121.90
26	BB	702	U	N1-C2-O2	-5.88	118.69	122.80
26	BB	912	C	C4'-C3'-C2'	-5.88	96.72	102.60
26	BB	1106	G	N3-C4-N9	-5.88	122.47	126.00
26	BB	1212	G	N7-C8-N9	5.88	116.04	113.10
26	BB	1308	A	N9-C1'-C2'	-5.88	105.53	112.00
26	BB	2818	U	C6-N1-C2	5.88	124.53	121.00
1	AA	699	C	C2-N3-C4	5.88	122.84	119.90
1	AA	1276	G	C4-C5-C6	-5.88	115.28	118.80
1	AA	1520	C	N3-C2-O2	-5.88	117.79	121.90
26	BB	494	G	C2-N3-C4	5.88	114.84	111.90
26	BB	580	U	N1-C2-N3	5.88	118.42	114.90
26	BB	1610	A	N9-C4-C5	-5.88	103.45	105.80
26	BB	2169	A	C8-N9-C4	-5.88	103.45	105.80
26	BB	2207	C	O4'-C1'-N1	5.88	112.90	108.20
26	BB	2532	G	C8-N9-C4	-5.88	104.05	106.40
1	AA	718	A	C3'-C2'-C1'	5.87	106.20	101.50
4	AD	39	A	N3-C4-C5	-5.87	122.69	126.80
18	AR	77	TYR	CG-CD2-CE2	-5.87	116.60	121.30
26	BB	672	C	C4-C5-C6	5.87	120.34	117.40
26	BB	1316	U	C5'-C4'-O4'	5.87	116.15	109.10
26	BB	1757	A	C2'-C3'-O3'	5.87	123.10	113.70
26	BB	1945	G	C4-C5-N7	-5.87	108.45	110.80
26	BB	2374	C	C2-N3-C4	5.87	122.84	119.90
26	BB	2389	G	C5-C6-N1	5.87	114.44	111.50
26	BB	2404	U	C4-C5-C6	5.87	123.22	119.70
1	AA	50	A	C3'-C2'-C1'	5.87	106.20	101.50
1	AA	128	G	C3'-C2'-C1'	-5.87	96.80	101.50
1	AA	399	G	O5'-C5'-C4'	-5.87	100.54	111.70
1	AA	754	C	N3-C2-O2	-5.87	117.79	121.90
1	AA	1201	A	P-O3'-C3'	5.87	126.75	119.70
1	AA	1443	C	P-O3'-C3'	5.87	126.75	119.70
18	AR	84	LEU	CA-CB-CG	5.87	128.81	115.30
26	BB	20	C	O4'-C1'-N1	5.87	112.90	108.20
26	BB	358	U	N1-C2-O2	5.87	126.91	122.80
26	BB	507	A	C5-C6-N1	5.87	120.64	117.70
26	BB	736	C	N1-C2-N3	5.87	123.31	119.20
26	BB	939	G	N1-C6-O6	-5.87	116.38	119.90
26	BB	954	G	N3-C4-N9	5.87	129.52	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1462	C	N1-C2-O2	5.87	122.42	118.90
26	BB	1684	G	C4'-C3'-C2'	-5.87	96.73	102.60
26	BB	2357	G	C6-N1-C2	-5.87	121.58	125.10
26	BB	2693	G	N7-C8-N9	5.87	116.04	113.10
26	BB	2765	A	C8-N9-C4	-5.87	103.45	105.80
25	BA	113	C	C5-C6-N1	5.87	123.94	121.00
26	BB	101	A	C4-C5-N7	-5.87	107.77	110.70
26	BB	339	U	O4'-C4'-C3'	5.87	110.80	106.10
26	BB	1423	G	C8-N9-C4	-5.87	104.05	106.40
26	BB	2032	G	C5-N7-C8	-5.87	101.36	104.30
26	BB	2218	G	C4-C5-C6	5.87	122.32	118.80
26	BB	2447	G	C5-C6-N1	5.87	114.44	111.50
34	BJ	78	PRO	N-CA-CB	5.87	110.34	103.30
41	BQ	92	PHE	CG-CD2-CE2	-5.87	114.34	120.80
1	AA	549	C	C5-C4-N4	-5.87	116.09	120.20
3	AC	25	U	N3-C4-O4	-5.87	115.29	119.40
25	BA	49	C	N3-C4-C5	-5.87	119.55	121.90
26	BB	438	G	N9-C4-C5	5.87	107.75	105.40
26	BB	534	U	C1'-O4'-C4'	-5.87	105.20	109.90
26	BB	751	A	N1-C6-N6	-5.87	115.08	118.60
26	BB	1475	G	C4-C5-C6	5.87	122.32	118.80
26	BB	2006	C	N3-C4-N4	5.87	122.11	118.00
26	BB	2191	A	C5-N7-C8	-5.87	100.97	103.90
26	BB	2768	U	N1-C2-O2	5.87	126.91	122.80
26	BB	2870	C	C5'-C4'-O4'	5.87	116.14	109.10
5	AE	34	ARG	NE-CZ-NH1	5.87	123.23	120.30
26	BB	559	G	N9-C4-C5	-5.87	103.05	105.40
26	BB	1011	G	O4'-C1'-N9	5.87	112.89	108.20
26	BB	2257	U	O4'-C1'-C2'	5.87	112.88	107.60
1	AA	342	C	N1-C2-O2	5.87	122.42	118.90
1	AA	388	G	N3-C4-C5	-5.87	125.67	128.60
1	AA	891	U	N3-C4-C5	-5.87	111.08	114.60
1	AA	1121	U	N1-C2-O2	-5.87	118.69	122.80
26	BB	963	U	N1-C2-N3	5.87	118.42	114.90
26	BB	1056	G	C5'-C4'-O4'	5.87	116.14	109.10
26	BB	1252	G	N9-C4-C5	5.87	107.75	105.40
26	BB	1579	A	C5'-C4'-O4'	5.87	116.14	109.10
26	BB	1650	A	C8-N9-C4	-5.87	103.45	105.80
26	BB	1913	A	C5-C6-N1	5.87	120.63	117.70
26	BB	2037	A	C6-N1-C2	-5.87	115.08	118.60
26	BB	2702	G	C8-N9-C4	-5.87	104.05	106.40
26	BB	2838	G	N3-C2-N2	5.87	124.01	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2888	C	O4'-C1'-N1	5.87	112.89	108.20
26	BB	2889	C	C4'-C3'-C2'	-5.87	96.73	102.60
27	BC	12	ARG	NH1-CZ-NH2	-5.87	112.95	119.40
1	AA	883	C	C5-C4-N4	-5.86	116.09	120.20
1	AA	887	G	O4'-C1'-N9	5.86	112.89	108.20
1	AA	912	C	C1'-O4'-C4'	-5.86	105.21	109.90
1	AA	1000	A	C2-N3-C4	5.86	113.53	110.60
2	AB	47	U	N3-C2-O2	-5.86	118.09	122.20
26	BB	74	A	C5-N7-C8	5.86	106.83	103.90
26	BB	629	G	C2-N3-C4	5.86	114.83	111.90
26	BB	1225	G	C2'-C3'-O3'	5.86	123.08	113.70
26	BB	2237	G	C1'-O4'-C4'	5.86	114.59	109.90
26	BB	2861	U	P-O3'-C3'	5.86	126.74	119.70
5	AE	236	PHE	CB-CG-CD1	5.86	124.90	120.80
26	BB	1600	C	C6-N1-C2	-5.86	117.95	120.30
26	BB	1710	G	C6-C5-N7	-5.86	126.88	130.40
26	BB	2189	U	C4'-C3'-C2'	-5.86	96.74	102.60
1	AA	575	G	C1'-O4'-C4'	-5.86	105.21	109.90
1	AA	1254	A	C6-C5-N7	5.86	136.40	132.30
2	AB	33	U	N3-C4-C5	-5.86	111.08	114.60
8	AH	9	GLU	OE1-CD-OE2	5.86	130.33	123.30
26	BB	8	C	C1'-O4'-C4'	5.86	114.59	109.90
26	BB	361	G	N1-C6-O6	5.86	123.42	119.90
26	BB	895	U	C5-C4-O4	-5.86	122.38	125.90
26	BB	1025	G	N1-C6-O6	5.86	123.42	119.90
26	BB	1484	U	O4'-C1'-N1	5.86	112.89	108.20
26	BB	1869	G	N3-C2-N2	-5.86	115.80	119.90
26	BB	1896	G	N3-C4-N9	5.86	129.52	126.00
26	BB	2095	A	C5-N7-C8	-5.86	100.97	103.90
26	BB	2319	G	C3'-C2'-C1'	-5.86	96.81	101.50
26	BB	2324	U	N1-C2-N3	5.86	118.42	114.90
26	BB	2372	U	N3-C4-O4	5.86	123.50	119.40
1	AA	209	U	N1-C2-N3	5.86	118.42	114.90
1	AA	945	G	C6-N1-C2	-5.86	121.58	125.10
1	AA	1127	G	C5'-C4'-O4'	5.86	116.13	109.10
1	AA	1441	A	C2-N3-C4	5.86	113.53	110.60
1	AA	1454	G	N1-C6-O6	5.86	123.42	119.90
26	BB	34	U	C6-N1-C2	5.86	124.52	121.00
26	BB	236	C	O4'-C1'-C2'	-5.86	99.94	105.80
26	BB	401	A	C6-N1-C2	5.86	122.11	118.60
31	BG	101	ARG	CD-NE-CZ	5.86	131.80	123.60
1	AA	146	G	N1-C6-O6	-5.86	116.39	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	249	U	C6-N1-C2	-5.86	117.49	121.00
1	AA	328	C	C1'-O4'-C4'	-5.86	105.21	109.90
1	AA	480	U	C6-N1-C2	-5.86	117.49	121.00
1	AA	1504	G	C5-C6-O6	5.86	132.12	128.60
1	AA	1532	U	C5'-C4'-O4'	5.86	116.13	109.10
26	BB	903	C	C2-N3-C4	5.86	122.83	119.90
26	BB	1120	G	N1-C2-N3	-5.86	120.39	123.90
26	BB	1270	C	N3-C4-C5	-5.86	119.56	121.90
26	BB	1408	G	C5-N7-C8	5.86	107.23	104.30
26	BB	2359	C	C1'-O4'-C4'	5.86	114.59	109.90
26	BB	2409	G	N7-C8-N9	5.86	116.03	113.10
1	AA	241	G	N1-C2-N2	5.86	121.47	116.20
1	AA	369	G	C5-N7-C8	5.86	107.23	104.30
1	AA	1074	G	N1-C2-N3	5.86	127.41	123.90
1	AA	1164	G	C4-C5-N7	-5.86	108.46	110.80
1	AA	1383	C	C4-C5-C6	-5.86	114.47	117.40
26	BB	156	A	O4'-C4'-C3'	5.86	110.78	106.10
26	BB	630	G	C4-C5-C6	5.86	122.31	118.80
26	BB	804	A	O4'-C1'-C2'	5.86	112.87	107.60
26	BB	1139	G	C5-C6-N1	5.86	114.43	111.50
26	BB	1384	A	N7-C8-N9	5.86	116.73	113.80
26	BB	2279	G	O4'-C1'-N9	5.86	112.88	108.20
26	BB	2336	A	C4-C5-C6	-5.86	114.07	117.00
1	AA	82	G	C6-N1-C2	-5.85	121.59	125.10
1	AA	538	G	N9-C1'-C2'	-5.85	105.56	112.00
1	AA	1100	C	C5-C6-N1	5.85	123.93	121.00
26	BB	2005	A	C4-C5-N7	5.85	113.63	110.70
26	BB	2256	G	N3-C4-C5	-5.85	125.67	128.60
26	BB	2553	G	N7-C8-N9	5.85	116.03	113.10
26	BB	2589	A	N9-C4-C5	-5.85	103.46	105.80
26	BB	2879	A	C6-N1-C2	-5.85	115.09	118.60
45	BU	38	TYR	CG-CD2-CE2	-5.85	116.62	121.30
1	AA	67	C	N3-C2-O2	-5.85	117.80	121.90
1	AA	346	G	C5'-C4'-C3'	-5.85	106.64	116.00
1	AA	710	G	C4-C5-C6	5.85	122.31	118.80
26	BB	1028	A	C4-C5-N7	5.85	113.63	110.70
26	BB	1390	U	N3-C4-O4	-5.85	115.30	119.40
26	BB	1423	G	O4'-C1'-N9	5.85	112.88	108.20
26	BB	1620	G	C6-N1-C2	-5.85	121.59	125.10
26	BB	2526	G	N3-C4-N9	5.85	129.51	126.00
1	AA	118	U	C4-C5-C6	-5.85	116.19	119.70
26	BB	589	U	N3-C4-O4	5.85	123.50	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	74	A	C3'-C2'-C1'	-5.85	96.82	101.50
1	AA	605	U	O4'-C1'-N1	5.85	112.88	108.20
1	AA	1265	C	C2-N3-C4	5.85	122.83	119.90
1	AA	1372	U	C5-C4-O4	5.85	129.41	125.90
3	AC	43	U	C5'-C4'-O4'	5.85	116.12	109.10
21	AU	44	THR	CA-CB-CG2	-5.85	104.21	112.40
22	AV	1	PRO	N-CD-CG	5.85	111.97	103.20
25	BA	51	G	N3-C4-C5	-5.85	125.68	128.60
26	BB	141	G	C3'-C2'-C1'	5.85	106.18	101.50
26	BB	867	C	O4'-C4'-C3'	-5.85	98.15	104.00
26	BB	1717	A	C2-N3-C4	5.85	113.53	110.60
26	BB	1750	G	C5-C6-N1	5.85	114.42	111.50
26	BB	2400	G	N3-C4-N9	5.85	129.51	126.00
26	BB	2603	G	C5-C6-N1	5.85	114.42	111.50
1	AA	483	C	C5-C6-N1	5.85	123.92	121.00
1	AA	550	G	O4'-C4'-C3'	5.85	110.78	106.10
1	AA	816	A	C1'-O4'-C4'	-5.85	105.22	109.90
1	AA	955	U	N1-C2-O2	5.85	126.89	122.80
1	AA	1047	G	C1'-O4'-C4'	-5.85	105.22	109.90
1	AA	1220	G	C2-N3-C4	5.85	114.82	111.90
1	AA	1242	G	N9-C1'-C2'	-5.85	105.57	112.00
1	AA	1400	C	P-O3'-C3'	5.85	126.72	119.70
4	AD	59	A	N9-C4-C5	5.85	108.14	105.80
26	BB	14	A	N9-C4-C5	5.85	108.14	105.80
26	BB	86	G	N3-C2-N2	5.85	123.99	119.90
26	BB	1463	C	C5-C4-N4	-5.85	116.11	120.20
26	BB	2370	G	C5-C6-N1	5.85	114.42	111.50
26	BB	2415	G	N9-C4-C5	5.85	107.74	105.40
26	BB	2524	G	C5-N7-C8	-5.85	101.38	104.30
26	BB	2677	G	C4-C5-C6	5.85	122.31	118.80
1	AA	91	U	N3-C4-O4	5.85	123.49	119.40
1	AA	397	A	N3-C4-C5	-5.85	122.71	126.80
1	AA	1018	G	C8-N9-C4	-5.85	104.06	106.40
1	AA	1299	A	N3-C4-N9	5.85	132.08	127.40
1	AA	1334	G	N3-C2-N2	5.85	123.99	119.90
26	BB	38	A	C3'-C2'-C1'	5.85	106.18	101.50
26	BB	1231	U	C4-C5-C6	5.85	123.21	119.70
26	BB	1349	C	C5'-C4'-O4'	5.85	116.11	109.10
26	BB	2262	U	N3-C4-O4	5.85	123.49	119.40
26	BB	2405	G	N3-C2-N2	5.85	123.99	119.90
1	AA	18	C	C2-N3-C4	-5.84	116.98	119.90
1	AA	72	A	C5'-C4'-O4'	5.84	116.11	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	130	A	N3-C4-N9	5.84	132.08	127.40
1	AA	432	A	N9-C1'-C2'	-5.84	105.57	112.00
1	AA	595	A	N1-C2-N3	5.84	132.22	129.30
1	AA	1238	A	C1'-O4'-C4'	-5.84	105.22	109.90
1	AA	1362	A	N1-C6-N6	-5.84	115.09	118.60
1	AA	1431	A	C4-C5-N7	5.84	113.62	110.70
4	AD	9	G	C5-C6-O6	-5.84	125.09	128.60
25	BA	120	U	C5-C4-O4	5.84	129.41	125.90
26	BB	181	A	C4-C5-C6	5.84	119.92	117.00
26	BB	469	G	N9-C4-C5	-5.84	103.06	105.40
26	BB	1160	G	N1-C2-N2	5.84	121.46	116.20
26	BB	1556	C	C1'-O4'-C4'	5.84	114.58	109.90
26	BB	1833	C	N1-C1'-C2'	-5.84	105.57	112.00
26	BB	2045	C	N1-C2-O2	5.84	122.41	118.90
26	BB	2366	A	C4'-C3'-C2'	-5.84	96.76	102.60
1	AA	327	A	C4-C5-C6	5.84	119.92	117.00
1	AA	615	G	C6-C5-N7	-5.84	126.89	130.40
1	AA	1141	C	O4'-C4'-C3'	5.84	110.78	106.10
1	AA	266	G	C4-N9-C1'	-5.84	118.91	126.50
1	AA	511	C	N3-C4-N4	5.84	122.09	118.00
1	AA	539	A	C6-N1-C2	-5.84	115.09	118.60
1	AA	633	G	N3-C4-N9	5.84	129.50	126.00
1	AA	760	G	N1-C2-N2	5.84	121.46	116.20
1	AA	808	C	O4'-C4'-C3'	5.84	110.77	106.10
1	AA	1099	G	N1-C6-O6	5.84	123.41	119.90
2	AB	70	C	N3-C4-C5	-5.84	119.56	121.90
12	AL	123	ARG	CD-NE-CZ	5.84	131.78	123.60
15	AO	113	ARG	NE-CZ-NH2	-5.84	117.38	120.30
26	BB	48	G	C4-C5-N7	5.84	113.14	110.80
26	BB	146	A	N1-C6-N6	-5.84	115.10	118.60
26	BB	419	U	C5-C4-O4	5.84	129.40	125.90
26	BB	1147	A	C5-C6-N1	5.84	120.62	117.70
26	BB	1569	A	C4-C5-C6	-5.84	114.08	117.00
26	BB	1750	G	C4-C5-C6	-5.84	115.30	118.80
26	BB	2295	C	N1-C2-O2	5.84	122.41	118.90
26	BB	2422	C	C5-C4-N4	5.84	124.29	120.20
26	BB	2493	U	N3-C2-O2	-5.84	118.11	122.20
26	BB	2768	U	O5'-C5'-C4'	5.84	122.80	111.70
26	BB	2824	C	C2-N3-C4	-5.84	116.98	119.90
48	BX	56	PHE	CB-CG-CD2	-5.84	116.71	120.80
1	AA	16	A	C5'-C4'-O4'	5.84	116.11	109.10
1	AA	277	C	C5-C6-N1	5.84	123.92	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	522	C	C1'-O4'-C4'	5.84	114.57	109.90
1	AA	523	A	N9-C4-C5	5.84	108.14	105.80
1	AA	730	G	N9-C4-C5	5.84	107.74	105.40
1	AA	987	G	N3-C2-N2	-5.84	115.81	119.90
1	AA	1434	A	C6-C5-N7	5.84	136.39	132.30
26	BB	83	A	O4'-C4'-C3'	5.84	110.77	106.10
26	BB	126	A	C5'-C4'-O4'	5.84	116.11	109.10
26	BB	224	U	C5'-C4'-C3'	-5.84	106.66	116.00
26	BB	252	G	C5-C6-N1	5.84	114.42	111.50
26	BB	304	U	N3-C2-O2	-5.84	118.11	122.20
26	BB	862	G	C4-C5-N7	-5.84	108.46	110.80
26	BB	1628	G	C2'-C3'-O3'	5.84	123.04	113.70
26	BB	2203	U	C4'-C3'-C2'	-5.84	96.76	102.60
26	BB	2278	A	C4'-C3'-O3'	5.84	124.68	113.00
26	BB	2306	C	N1-C1'-C2'	5.84	121.59	114.00
1	AA	810	C	C1'-O4'-C4'	-5.84	105.23	109.90
1	AA	852	G	C2-N3-C4	5.84	114.82	111.90
1	AA	1411	C	P-O3'-C3'	5.84	126.71	119.70
3	AC	57	C	N3-C2-O2	-5.84	117.81	121.90
4	AD	22	A	N7-C8-N9	5.84	116.72	113.80
26	BB	313	G	C5-C6-N1	5.84	114.42	111.50
26	BB	459	U	N3-C4-C5	-5.84	111.10	114.60
26	BB	1134	A	C2-N3-C4	-5.84	107.68	110.60
1	AA	168	G	C4-C5-N7	5.84	113.14	110.80
1	AA	242	G	N7-C8-N9	5.84	116.02	113.10
1	AA	438	U	O4'-C1'-N1	5.84	112.87	108.20
1	AA	1034	G	C3'-C2'-C1'	-5.84	96.83	101.50
1	AA	1287	A	O3'-P-O5'	5.84	115.09	104.00
1	AA	1494	G	C4-C5-N7	5.84	113.14	110.80
25	BA	49	C	P-O3'-C3'	5.84	126.70	119.70
26	BB	339	U	N1-C2-N3	5.84	118.40	114.90
26	BB	887	U	N1-C2-O2	5.84	126.89	122.80
26	BB	1126	A	C6-N1-C2	-5.84	115.10	118.60
26	BB	1464	G	C4-C5-N7	-5.84	108.47	110.80
26	BB	1526	C	C5-C6-N1	-5.84	118.08	121.00
26	BB	2093	G	C4-C5-N7	-5.84	108.47	110.80
26	BB	2104	C	C3'-C2'-C1'	5.84	106.17	101.50
26	BB	2517	C	C2-N3-C4	5.84	122.82	119.90
45	BU	25	ARG	NH1-CZ-NH2	-5.84	112.98	119.40
52	B1	56	VAL	CA-CB-CG1	5.84	119.66	110.90
1	AA	365	U	N1-C1'-C2'	-5.83	105.58	112.00
1	AA	689	C	N3-C4-C5	5.83	124.23	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	738	C	C6-N1-C2	-5.83	117.97	120.30
1	AA	1344	C	C2-N3-C4	5.83	122.82	119.90
1	AA	1458	G	C5-C6-O6	5.83	132.10	128.60
2	AB	49	G	C3'-C2'-C1'	5.83	106.17	101.50
25	BA	81	G	C5-N7-C8	-5.83	101.38	104.30
26	BB	499	U	C4-C5-C6	5.83	123.20	119.70
26	BB	1071	G	N3-C2-N2	5.83	123.98	119.90
26	BB	1701	A	C4'-C3'-C2'	-5.83	96.77	102.60
26	BB	1871	A	C6-N1-C2	-5.83	115.10	118.60
26	BB	2606	C	N3-C4-C5	-5.83	119.57	121.90
26	BB	2739	U	O4'-C4'-C3'	-5.83	98.17	104.00
1	AA	212	G	N1-C2-N2	5.83	121.45	116.20
1	AA	290	C	C1'-O4'-C4'	-5.83	105.23	109.90
1	AA	318	G	N1-C2-N2	5.83	121.45	116.20
1	AA	538	G	C5-C6-N1	5.83	114.42	111.50
1	AA	869	G	N1-C2-N2	-5.83	110.95	116.20
12	AL	93	LEU	CB-CG-CD1	5.83	120.92	111.00
26	BB	2	G	N7-C8-N9	5.83	116.02	113.10
26	BB	867	C	C5'-C4'-O4'	5.83	116.10	109.10
26	BB	997	G	C4-C5-C6	5.83	122.30	118.80
26	BB	1018	U	C4'-C3'-C2'	-5.83	96.77	102.60
26	BB	1217	U	C1'-O4'-C4'	5.83	114.57	109.90
26	BB	1352	U	C1'-O4'-C4'	-5.83	105.23	109.90
57	B6	57	VAL	CG1-CB-CG2	-5.83	101.57	110.90
1	AA	897	C	P-O3'-C3'	5.83	126.70	119.70
1	AA	970	C	C2-N1-C1'	5.83	125.22	118.80
1	AA	1257	A	C5-N7-C8	-5.83	100.98	103.90
1	AA	1403	C	N1-C2-O2	5.83	122.40	118.90
5	AE	9	LEU	CB-CG-CD2	-5.83	101.09	111.00
26	BB	261	G	C2-N3-C4	5.83	114.82	111.90
26	BB	526	A	N7-C8-N9	-5.83	110.88	113.80
26	BB	1048	A	N1-C6-N6	5.83	122.10	118.60
26	BB	1380	G	O4'-C1'-N9	5.83	112.87	108.20
26	BB	1410	G	C8-N9-C4	-5.83	104.07	106.40
26	BB	1797	G	C4-C5-C6	5.83	122.30	118.80
26	BB	2380	C	C4-C5-C6	-5.83	114.48	117.40
26	BB	2442	C	C4-C5-C6	-5.83	114.48	117.40
26	BB	2794	C	C4-C5-C6	5.83	120.32	117.40
26	BB	2811	G	C8-N9-C4	-5.83	104.07	106.40
31	BG	148	VAL	CG1-CB-CG2	-5.83	101.57	110.90
39	BO	103	TYR	CB-CG-CD1	-5.83	117.50	121.00
1	AA	21	G	O4'-C1'-N9	5.83	112.86	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	228	A	C5-C6-N1	-5.83	114.78	117.70
1	AA	384	G	C4-C5-C6	5.83	122.30	118.80
1	AA	490	C	C6-N1-C2	-5.83	117.97	120.30
1	AA	709	U	O5'-P-OP2	-5.83	100.45	105.70
1	AA	1276	G	C5-N7-C8	5.83	107.22	104.30
26	BB	13	A	N9-C4-C5	5.83	108.13	105.80
26	BB	23	G	N9-C4-C5	5.83	107.73	105.40
26	BB	459	U	C1'-O4'-C4'	5.83	114.56	109.90
26	BB	474	G	N3-C4-N9	-5.83	122.50	126.00
26	BB	1096	A	C5-N7-C8	5.83	106.81	103.90
26	BB	1401	G	C2-N3-C4	5.83	114.81	111.90
26	BB	2158	A	N3-C4-C5	-5.83	122.72	126.80
26	BB	2271	G	C8-N9-C4	-5.83	104.07	106.40
1	AA	137	U	C2-N3-C4	5.83	130.50	127.00
25	BA	66	A	N7-C8-N9	5.83	116.71	113.80
26	BB	145	C	N1-C1'-C2'	-5.83	105.59	112.00
26	BB	756	A	O4'-C1'-N9	5.83	112.86	108.20
26	BB	799	G	N1-C6-O6	-5.83	116.40	119.90
26	BB	981	A	C4-C5-C6	-5.83	114.09	117.00
26	BB	1113	U	C4'-C3'-C2'	-5.83	96.77	102.60
26	BB	1492	G	N3-C4-N9	-5.83	122.50	126.00
26	BB	1787	A	N9-C4-C5	5.83	108.13	105.80
26	BB	1790	C	C6-N1-C2	-5.83	117.97	120.30
26	BB	1940	U	C4-C5-C6	5.83	123.20	119.70
26	BB	2273	A	C8-N9-C4	-5.83	103.47	105.80
26	BB	2308	G	N1-C2-N2	5.83	121.44	116.20
26	BB	2426	A	N9-C1'-C2'	-5.83	105.59	112.00
1	AA	11	G	C5-C6-O6	-5.83	125.10	128.60
1	AA	977	A	C2-N3-C4	5.83	113.51	110.60
2	AB	26	A	C8-N9-C4	5.83	108.13	105.80
26	BB	1704	C	C1'-O4'-C4'	5.83	114.56	109.90
26	BB	2518	A	C3'-C2'-C1'	-5.83	96.84	101.50
1	AA	216	U	N1-C1'-C2'	-5.83	105.59	112.00
1	AA	576	C	P-O3'-C3'	5.83	126.69	119.70
1	AA	881	G	C1'-O4'-C4'	-5.83	105.24	109.90
1	AA	1292	G	C6-C5-N7	-5.83	126.91	130.40
1	AA	1358	U	C5-C4-O4	5.83	129.40	125.90
3	AC	53	G	N7-C8-N9	5.83	116.01	113.10
4	AD	12	G	C4-C5-N7	-5.83	108.47	110.80
26	BB	487	C	C2-N3-C4	-5.83	116.99	119.90
26	BB	990	A	C4-C5-C6	-5.83	114.09	117.00
26	BB	1118	C	C5'-C4'-O4'	5.83	116.09	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1496	A	C5-N7-C8	5.83	106.81	103.90
26	BB	1557	C	O4'-C1'-N1	5.83	112.86	108.20
26	BB	1769	U	N3-C4-O4	5.83	123.48	119.40
26	BB	2217	G	O4'-C1'-C2'	5.83	112.84	107.60
26	BB	2351	G	N3-C4-C5	-5.83	125.69	128.60
26	BB	2623	G	C8-N9-C4	-5.83	104.07	106.40
26	BB	2862	G	N1-C6-O6	-5.83	116.41	119.90
1	AA	6	G	N1-C2-N2	5.82	121.44	116.20
1	AA	48	C	C3'-C2'-C1'	5.82	106.16	101.50
1	AA	358	U	C5-C6-N1	-5.82	119.79	122.70
1	AA	476	U	C4-C5-C6	5.82	123.19	119.70
1	AA	513	C	O4'-C1'-N1	5.82	112.86	108.20
1	AA	1170	A	C5-C6-N6	-5.82	119.04	123.70
1	AA	1369	C	C6-N1-C2	-5.82	117.97	120.30
1	AA	1510	C	O4'-C4'-C3'	5.82	110.76	106.10
26	BB	379	G	N1-C6-O6	-5.82	116.41	119.90
26	BB	494	G	C8-N9-C1'	5.82	134.57	127.00
26	BB	1418	G	N3-C4-N9	-5.82	122.50	126.00
26	BB	1672	A	C2-N3-C4	5.82	113.51	110.60
26	BB	2073	C	C5-C6-N1	-5.82	118.09	121.00
1	AA	302	G	C2-N3-C4	5.82	114.81	111.90
25	BA	62	C	N3-C4-N4	5.82	122.08	118.00
26	BB	652	U	N1-C2-O2	5.82	126.88	122.80
26	BB	1227	G	N3-C4-N9	5.82	129.49	126.00
26	BB	1601	G	C5-C6-O6	5.82	132.09	128.60
26	BB	2841	C	C5-C6-N1	5.82	123.91	121.00
1	AA	114	U	N3-C2-O2	-5.82	118.12	122.20
1	AA	770	C	N1-C2-N3	5.82	123.28	119.20
1	AA	805	C	N1-C2-O2	5.82	122.39	118.90
1	AA	1015	G	N3-C4-C5	-5.82	125.69	128.60
4	AD	63	C	N3-C2-O2	-5.82	117.83	121.90
6	AF	21	TRP	CH2-CZ2-CE2	5.82	123.22	117.40
25	BA	18	G	N3-C4-N9	5.82	129.49	126.00
26	BB	164	C	N1-C2-O2	5.82	122.39	118.90
26	BB	941	A	C4-C5-N7	-5.82	107.79	110.70
26	BB	1120	G	O4'-C1'-C2'	-5.82	99.98	105.80
26	BB	1264	A	C4'-C3'-C2'	-5.82	96.78	102.60
26	BB	2059	A	C6-N1-C2	5.82	122.09	118.60
26	BB	2501	C	N3-C2-O2	-5.82	117.83	121.90
26	BB	2618	G	C5-N7-C8	-5.82	101.39	104.30
26	BB	2822	G	C5'-C4'-C3'	-5.82	106.69	116.00
26	BB	2845	U	C5-C4-O4	-5.82	122.41	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	238	A	C8-N9-C4	-5.82	103.47	105.80
1	AA	503	C	C5-C4-N4	-5.82	116.13	120.20
1	AA	685	G	O4'-C1'-N9	5.82	112.86	108.20
26	BB	23	G	N7-C8-N9	5.82	116.01	113.10
26	BB	103	A	C5-C6-N1	5.82	120.61	117.70
26	BB	167	A	O4'-C1'-C2'	-5.82	99.98	105.80
26	BB	302	C	C5'-C4'-O4'	5.82	116.08	109.10
26	BB	425	G	C5-C6-N1	5.82	114.41	111.50
26	BB	1812	U	C6-N1-C2	5.82	124.49	121.00
34	BJ	75	PHE	CB-CG-CD1	-5.82	116.73	120.80
58	B7	36	ARG	NE-CZ-NH1	5.82	123.21	120.30
1	AA	394	G	N1-C2-N2	5.82	121.44	116.20
1	AA	563	A	N9-C4-C5	-5.82	103.47	105.80
1	AA	777	A	C4-C5-N7	-5.82	107.79	110.70
1	AA	1053	G	N3-C2-N2	5.82	123.97	119.90
3	AC	17	U	C6-N1-C1'	5.82	129.35	121.20
26	BB	1356	G	C3'-C2'-C1'	-5.82	96.85	101.50
26	BB	1756	G	C5-C6-N1	5.82	114.41	111.50
26	BB	1878	G	N9-C1'-C2'	-5.82	105.60	112.00
26	BB	2317	A	C5'-C4'-O4'	5.82	116.08	109.10
26	BB	2373	G	N1-C6-O6	5.82	123.39	119.90
26	BB	2515	C	O4'-C1'-N1	5.82	112.86	108.20
35	BK	126	ARG	NE-CZ-NH1	5.82	123.21	120.30
1	AA	433	G	N9-C4-C5	5.82	107.73	105.40
1	AA	505	G	N3-C4-C5	-5.82	125.69	128.60
1	AA	1196	A	C5-C6-N1	5.82	120.61	117.70
1	AA	1295	U	C4'-C3'-C2'	-5.82	96.78	102.60
1	AA	1367	C	C6-N1-C1'	5.82	127.78	120.80
1	AA	1491	G	C8-N9-C4	5.82	108.73	106.40
2	AB	53	G	C4-C5-C6	5.82	122.29	118.80
3	AC	36	U	C4-C5-C6	5.82	123.19	119.70
21	AU	19	GLU	OE1-CD-OE2	5.82	130.28	123.30
26	BB	174	U	C4'-C3'-C2'	-5.82	96.78	102.60
26	BB	248	G	N1-C2-N3	5.82	127.39	123.90
26	BB	1251	C	C3'-C2'-C1'	5.82	106.15	101.50
26	BB	1507	C	N1-C2-O2	5.82	122.39	118.90
26	BB	1803	A	C6-C5-N7	5.82	136.37	132.30
26	BB	1998	A	C4'-C3'-C2'	-5.82	96.78	102.60
26	BB	2277	G	C5'-C4'-O4'	5.82	116.08	109.10
26	BB	2485	G	C4'-C3'-C2'	-5.82	96.78	102.60
26	BB	2513	A	N3-C4-C5	-5.82	122.73	126.80
1	AA	717	U	C2'-C3'-O3'	5.81	123.00	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	10	G	C4-C5-C6	5.81	122.29	118.80
26	BB	175	G	C5-C6-N1	5.81	114.41	111.50
26	BB	852	U	C4-C5-C6	5.81	123.19	119.70
26	BB	1485	U	C4-C5-C6	5.81	123.19	119.70
26	BB	1840	G	C6-N1-C2	-5.81	121.61	125.10
26	BB	2340	A	C4-C5-C6	-5.81	114.09	117.00
26	BB	2356	U	C5-C4-O4	-5.81	122.41	125.90
31	BG	137	PHE	CG-CD1-CE1	-5.81	114.40	120.80
1	AA	97	G	C5-C6-O6	5.81	132.09	128.60
1	AA	164	G	P-O3'-C3'	5.81	126.68	119.70
1	AA	211	G	C5'-C4'-O4'	5.81	116.08	109.10
1	AA	427	U	N1-C2-N3	5.81	118.39	114.90
1	AA	911	U	C5-C6-N1	-5.81	119.79	122.70
1	AA	1032	G	C5-N7-C8	5.81	107.21	104.30
1	AA	1298	U	N3-C4-C5	-5.81	111.11	114.60
9	AI	59	TYR	CG-CD2-CE2	-5.81	116.65	121.30
25	BA	61	G	C5-C6-N1	5.81	114.41	111.50
26	BB	305	C	N3-C4-N4	5.81	122.07	118.00
26	BB	819	A	C5'-C4'-C3'	-5.81	106.70	116.00
26	BB	2287	A	C6-C5-N7	5.81	136.37	132.30
1	AA	10	A	C5-C6-N1	-5.81	114.80	117.70
1	AA	1097	C	C1'-O4'-C4'	5.81	114.55	109.90
2	AB	2	G	C5-C6-N1	5.81	114.41	111.50
26	BB	333	G	C4-C5-N7	-5.81	108.48	110.80
26	BB	1888	G	C1'-O4'-C4'	5.81	114.55	109.90
26	BB	1925	C	C5'-C4'-C3'	-5.81	106.70	116.00
26	BB	2237	G	N3-C2-N2	-5.81	115.83	119.90
1	AA	97	G	P-O3'-C3'	5.81	126.67	119.70
1	AA	148	G	C3'-C2'-C1'	-5.81	96.85	101.50
1	AA	273	U	C5-C6-N1	5.81	125.61	122.70
1	AA	308	C	C4'-C3'-C2'	-5.81	96.79	102.60
1	AA	732	C	O4'-C1'-N1	5.81	112.85	108.20
1	AA	796	C	N3-C4-N4	5.81	122.07	118.00
1	AA	929	G	C2-N3-C4	5.81	114.81	111.90
1	AA	969	A	C6-C5-N7	5.81	136.37	132.30
1	AA	1016	A	C8-N9-C4	-5.81	103.48	105.80
1	AA	1177	G	C4-C5-C6	5.81	122.29	118.80
1	AA	1251	A	C1'-O4'-C4'	5.81	114.55	109.90
1	AA	1372	U	N3-C4-O4	-5.81	115.33	119.40
3	AC	26	U	O5'-P-OP1	5.81	117.67	110.70
4	AD	57	C	C5-C6-N1	-5.81	118.09	121.00
26	BB	61	C	O4'-C4'-C3'	-5.81	98.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	469	G	C3'-C2'-C1'	-5.81	96.85	101.50
26	BB	1125	G	C4-C5-N7	5.81	113.12	110.80
26	BB	1279	G	C2-N3-C4	5.81	114.81	111.90
26	BB	1378	A	N7-C8-N9	-5.81	110.89	113.80
26	BB	1682	G	C2-N3-C4	5.81	114.81	111.90
26	BB	2127	G	N1-C2-N2	-5.81	110.97	116.20
26	BB	2351	G	N3-C4-N9	5.81	129.49	126.00
26	BB	2471	A	O4'-C1'-N9	5.81	112.85	108.20
1	AA	257	G	C2-N3-C4	5.81	114.80	111.90
1	AA	421	U	C2-N3-C4	-5.81	123.52	127.00
1	AA	699	C	N1-C2-N3	-5.81	115.14	119.20
1	AA	700	G	C5-C6-O6	-5.81	125.11	128.60
1	AA	1200	C	N3-C4-N4	5.81	122.07	118.00
1	AA	1486	G	C5'-C4'-O4'	5.81	116.07	109.10
4	AD	23	G	N3-C4-N9	5.81	129.49	126.00
25	BA	13	G	P-O3'-C3'	5.81	126.67	119.70
26	BB	283	G	C4-C5-N7	-5.81	108.48	110.80
26	BB	575	A	C6-C5-N7	5.81	136.37	132.30
26	BB	815	C	C5-C4-N4	-5.81	116.13	120.20
26	BB	1559	U	N3-C4-O4	5.81	123.47	119.40
26	BB	1781	U	N1-C2-O2	5.81	126.86	122.80
26	BB	1806	C	N3-C4-C5	5.81	124.22	121.90
26	BB	2549	G	O4'-C1'-N9	5.81	112.85	108.20
26	BB	2572	A	N3-C4-C5	-5.81	122.73	126.80
26	BB	2812	G	N7-C8-N9	-5.81	110.20	113.10
26	BB	2840	C	N3-C4-N4	5.81	122.07	118.00
1	AA	271	C	N3-C4-N4	5.81	122.06	118.00
26	BB	193	U	C2-N1-C1'	5.81	124.67	117.70
26	BB	528	A	C4'-C3'-C2'	-5.81	96.79	102.60
26	BB	1051	G	C4-C5-N7	-5.81	108.48	110.80
26	BB	2102	G	C4'-C3'-C2'	-5.81	96.79	102.60
26	BB	2266	A	N7-C8-N9	5.81	116.70	113.80
26	BB	2451	A	C5-C6-N1	5.81	120.60	117.70
26	BB	2540	C	N1-C2-N3	-5.81	115.14	119.20
1	AA	787	A	N9-C1'-C2'	-5.80	105.61	112.00
1	AA	1138	G	N3-C2-N2	5.80	123.96	119.90
1	AA	1390	U	O4'-C1'-N1	5.80	112.84	108.20
1	AA	1489	G	N9-C4-C5	5.80	107.72	105.40
14	AN	6	ARG	NE-CZ-NH2	-5.80	117.40	120.30
25	BA	76	G	C5-C6-O6	-5.80	125.12	128.60
26	BB	34	U	OP2-P-O3'	5.80	117.97	105.20
26	BB	356	G	N9-C1'-C2'	-5.80	105.62	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1422	G	N3-C2-N2	5.80	123.96	119.90
26	BB	2123	G	N1-C6-O6	-5.80	116.42	119.90
26	BB	2220	U	N1-C2-O2	-5.80	118.74	122.80
26	BB	2291	U	N3-C2-O2	-5.80	118.14	122.20
26	BB	2434	A	N3-C4-C5	-5.80	122.74	126.80
26	BB	2454	G	N3-C4-C5	-5.80	125.70	128.60
31	BG	142	TYR	CB-CG-CD2	-5.80	117.52	121.00
1	AA	282	A	O4'-C1'-N9	5.80	112.84	108.20
3	AC	50	U	N1-C1'-C2'	5.80	121.54	114.00
26	BB	7	G	C8-N9-C4	-5.80	104.08	106.40
26	BB	217	A	C4-C5-N7	-5.80	107.80	110.70
26	BB	1510	G	C6-C5-N7	-5.80	126.92	130.40
26	BB	1974	C	C3'-C2'-C1'	5.80	106.14	101.50
26	BB	2126	A	C1'-O4'-C4'	-5.80	105.26	109.90
26	BB	2426	A	N9-C4-C5	-5.80	103.48	105.80
29	BE	132	ALA	C-N-CA	5.80	136.21	121.70
1	AA	397	A	O4'-C1'-N9	-5.80	103.56	108.20
1	AA	480	U	N1-C2-N3	5.80	118.38	114.90
1	AA	989	U	N3-C4-C5	5.80	118.08	114.60
1	AA	1475	G	O4'-C1'-C2'	5.80	112.82	107.60
2	AB	11	U	C6-N1-C1'	5.80	129.32	121.20
26	BB	638	G	N1-C6-O6	5.80	123.38	119.90
26	BB	884	U	C5'-C4'-O4'	5.80	116.06	109.10
26	BB	1104	C	C6-N1-C2	-5.80	117.98	120.30
26	BB	1138	G	O4'-C4'-C3'	5.80	110.74	106.10
26	BB	1239	G	N7-C8-N9	-5.80	110.20	113.10
26	BB	1851	U	C3'-C2'-C1'	-5.80	96.86	101.50
26	BB	1921	G	N1-C6-O6	5.80	123.38	119.90
26	BB	2105	U	C5-C4-O4	-5.80	122.42	125.90
26	BB	2191	A	C4-C5-N7	5.80	113.60	110.70
26	BB	2199	A	C5-C6-N1	-5.80	114.80	117.70
26	BB	2484	G	C4-C5-N7	-5.80	108.48	110.80
26	BB	2688	G	N1-C6-O6	5.80	123.38	119.90
26	BB	2740	A	C8-N9-C4	-5.80	103.48	105.80
1	AA	369	G	C5-C6-O6	-5.80	125.12	128.60
1	AA	598	U	C1'-O4'-C4'	5.80	114.54	109.90
1	AA	743	A	C1'-O4'-C4'	-5.80	105.26	109.90
1	AA	1048	G	C4-C5-C6	5.80	122.28	118.80
1	AA	1130	A	N9-C4-C5	5.80	108.12	105.80
2	AB	15	A	C5-C6-N6	-5.80	119.06	123.70
2	AB	66	C	C6-N1-C2	5.80	122.62	120.30
26	BB	30	G	C6-N1-C2	-5.80	121.62	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	112	U	O3'-P-O5'	5.80	115.02	104.00
26	BB	354	A	C5-C6-N6	-5.80	119.06	123.70
26	BB	375	G	C4-C5-C6	-5.80	115.32	118.80
26	BB	436	C	O4'-C1'-C2'	5.80	112.82	107.60
26	BB	777	G	C2-N3-C4	5.80	114.80	111.90
26	BB	1346	G	N1-C2-N3	5.80	127.38	123.90
26	BB	1410	G	C6-N1-C2	-5.80	121.62	125.10
26	BB	1486	U	C3'-C2'-C1'	5.80	106.14	101.50
26	BB	1596	A	C4-C5-N7	-5.80	107.80	110.70
26	BB	1927	A	P-O3'-C3'	5.80	126.66	119.70
41	BQ	117	PHE	CB-CG-CD2	5.80	124.86	120.80
1	AA	42	G	N1-C2-N3	-5.80	120.42	123.90
1	AA	635	A	C1'-O4'-C4'	5.80	114.54	109.90
1	AA	743	A	O4'-C4'-C3'	5.80	110.74	106.10
1	AA	923	A	C5-N7-C8	-5.80	101.00	103.90
1	AA	1028	C	P-O5'-C5'	5.80	130.18	120.90
1	AA	1062	U	N1-C1'-C2'	-5.80	105.62	112.00
26	BB	2310	C	N3-C4-C5	-5.80	119.58	121.90
51	B0	9	LYS	CB-CA-C	5.80	122.00	110.40
1	AA	330	C	C6-N1-C2	-5.80	117.98	120.30
1	AA	366	A	C4-C5-C6	-5.80	114.10	117.00
1	AA	435	A	P-O3'-C3'	5.80	126.66	119.70
1	AA	1226	C	C2-N3-C4	5.80	122.80	119.90
1	AA	1511	G	P-O3'-C3'	5.80	126.66	119.70
2	AB	1	A	C6-N1-C2	5.80	122.08	118.60
4	AD	47	A	C1'-O4'-C4'	-5.80	105.26	109.90
25	BA	104	A	N7-C8-N9	-5.80	110.90	113.80
26	BB	704	G	N1-C2-N3	5.80	127.38	123.90
26	BB	1023	U	C5-C4-O4	-5.80	122.42	125.90
26	BB	1105	U	N3-C2-O2	-5.80	118.14	122.20
26	BB	1266	G	C8-N9-C1'	5.80	134.53	127.00
26	BB	1453	A	C8-N9-C4	-5.80	103.48	105.80
26	BB	1485	U	N3-C4-C5	-5.80	111.12	114.60
26	BB	1608	A	C8-N9-C4	-5.80	103.48	105.80
26	BB	2119	A	C6-C5-N7	5.80	136.36	132.30
26	BB	2479	U	C5'-C4'-O4'	5.80	116.06	109.10
26	BB	2639	A	C4-C5-C6	5.80	119.90	117.00
26	BB	2867	G	N1-C2-N3	-5.80	120.42	123.90
1	AA	115	G	C2-N3-C4	5.79	114.80	111.90
2	AB	61	C	C5'-C4'-O4'	5.79	116.05	109.10
26	BB	370	G	C4-C5-N7	5.79	113.12	110.80
26	BB	386	G	P-O3'-C3'	5.79	126.65	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	602	A	N9-C1'-C2'	-5.79	105.63	112.00
26	BB	1242	U	N3-C4-C5	-5.79	111.12	114.60
26	BB	1906	G	C4-N9-C1'	-5.79	118.97	126.50
26	BB	2040	G	C5-N7-C8	5.79	107.20	104.30
27	BC	189	LEU	CB-CG-CD1	5.79	120.85	111.00
50	BZ	65	THR	CA-CB-OG1	5.79	121.17	109.00
1	AA	278	G	C2-N3-C4	5.79	114.80	111.90
1	AA	617	G	C5'-C4'-C3'	-5.79	106.73	116.00
1	AA	699	C	N3-C2-O2	-5.79	117.84	121.90
1	AA	713	G	C4-C5-N7	5.79	113.12	110.80
1	AA	1080	A	C4-C5-C6	5.79	119.90	117.00
1	AA	1272	G	C6-N1-C2	-5.79	121.62	125.10
3	AC	13	A	N1-C6-N6	-5.79	115.12	118.60
26	BB	69	C	C1'-O4'-C4'	-5.79	105.27	109.90
26	BB	289	G	N7-C8-N9	5.79	116.00	113.10
26	BB	691	C	N1-C2-O2	-5.79	115.42	118.90
26	BB	816	C	C1'-O4'-C4'	5.79	114.53	109.90
26	BB	1279	G	O4'-C1'-N9	5.79	112.83	108.20
26	BB	1294	U	C1'-O4'-C4'	5.79	114.53	109.90
26	BB	1582	C	C1'-O4'-C4'	5.79	114.53	109.90
26	BB	2764	A	C4'-C3'-C2'	-5.79	96.81	102.60
30	BF	191	ASP	CB-CG-OD1	-5.79	113.09	118.30
1	AA	1021	A	O4'-C1'-N9	5.79	112.83	108.20
1	AA	1147	C	C6-N1-C2	5.79	122.62	120.30
15	AO	120	ARG	NE-CZ-NH1	5.79	123.20	120.30
26	BB	162	U	O4'-C1'-N1	5.79	112.83	108.20
26	BB	310	A	C4'-C3'-C2'	5.79	108.39	102.60
26	BB	2201	G	N7-C8-N9	5.79	116.00	113.10
26	BB	2272	U	C5-C4-O4	-5.79	122.42	125.90
26	BB	2653	U	N1-C2-O2	5.79	126.86	122.80
1	AA	847	G	P-O3'-C3'	5.79	126.65	119.70
1	AA	1175	G	C5'-C4'-C3'	-5.79	106.74	116.00
25	BA	58	A	C4-C5-N7	5.79	113.59	110.70
26	BB	11	C	N3-C2-O2	-5.79	117.85	121.90
26	BB	117	G	N3-C4-C5	-5.79	125.70	128.60
26	BB	428	A	N9-C4-C5	5.79	108.12	105.80
26	BB	2581	G	N1-C2-N2	-5.79	110.99	116.20
1	AA	182	A	C8-N9-C4	-5.79	103.48	105.80
1	AA	673	A	N1-C2-N3	-5.79	126.41	129.30
1	AA	782	A	C8-N9-C4	-5.79	103.48	105.80
1	AA	1306	A	C5'-C4'-O4'	5.79	116.05	109.10
5	AE	46	VAL	CG1-CB-CG2	-5.79	101.64	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	21	G	N9-C4-C5	5.79	107.72	105.40
26	BB	19	A	C4-C5-N7	5.79	113.59	110.70
26	BB	52	A	N3-C4-C5	-5.79	122.75	126.80
26	BB	114	U	C5'-C4'-O4'	5.79	116.05	109.10
26	BB	362	A	N9-C4-C5	5.79	108.11	105.80
26	BB	481	G	C5'-C4'-O4'	-5.79	102.15	109.10
26	BB	546	U	C5-C6-N1	-5.79	119.81	122.70
26	BB	1487	U	C2-N3-C4	-5.79	123.53	127.00
26	BB	1727	C	O4'-C4'-C3'	5.79	110.73	106.10
26	BB	1888	G	C6-C5-N7	5.79	133.87	130.40
1	AA	655	A	C4'-C3'-C2'	-5.79	96.81	102.60
1	AA	1097	C	C5-C6-N1	5.79	123.89	121.00
1	AA	1359	C	C2-N1-C1'	5.79	125.17	118.80
26	BB	162	U	C4'-C3'-C2'	-5.79	96.81	102.60
26	BB	821	A	N1-C2-N3	-5.79	126.41	129.30
26	BB	1271	G	N9-C4-C5	-5.79	103.08	105.40
26	BB	1322	A	N7-C8-N9	-5.79	110.91	113.80
26	BB	2152	G	C3'-C2'-C1'	5.79	106.13	101.50
26	BB	2736	A	N1-C2-N3	5.79	132.19	129.30
1	AA	162	A	C5'-C4'-C3'	-5.79	106.74	116.00
1	AA	179	A	O4'-C1'-C2'	5.79	112.81	107.60
1	AA	201	G	C5-C6-N1	5.79	114.39	111.50
1	AA	886	G	N7-C8-N9	5.79	115.99	113.10
1	AA	1093	A	C8-N9-C4	-5.79	103.48	105.80
1	AA	1100	C	C4-C5-C6	-5.79	114.51	117.40
1	AA	1335	U	P-O3'-C3'	5.79	126.64	119.70
1	AA	1451	U	C3'-C2'-C1'	-5.79	96.87	101.50
2	AB	10	G	N3-C4-C5	-5.79	125.71	128.60
25	BA	7	G	N3-C2-N2	5.79	123.95	119.90
26	BB	1174	U	N3-C4-O4	5.79	123.45	119.40
26	BB	1334	G	N7-C8-N9	5.79	115.99	113.10
26	BB	1523	U	O4'-C1'-C2'	-5.79	100.02	105.80
26	BB	2333	A	N7-C8-N9	5.79	116.69	113.80
26	BB	2406	A	C5-N7-C8	5.79	106.79	103.90
26	BB	2582	G	C1'-O4'-C4'	5.79	114.53	109.90
26	BB	2643	G	N3-C4-C5	-5.79	125.71	128.60
42	BR	38	ARG	NE-CZ-NH2	5.79	123.19	120.30
1	AA	113	G	C5-C6-O6	-5.78	125.13	128.60
1	AA	562	U	C5-C6-N1	-5.78	119.81	122.70
1	AA	577	G	N1-C2-N3	-5.78	120.43	123.90
1	AA	688	G	N1-C6-O6	5.78	123.37	119.90
1	AA	890	G	C8-N9-C4	-5.78	104.09	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1078	U	N1-C1'-C2'	-5.78	105.64	112.00
1	AA	1370	G	C5-N7-C8	5.78	107.19	104.30
1	AA	1426	G	N9-C4-C5	5.78	107.71	105.40
2	AB	15	A	C1'-O4'-C4'	-5.78	105.27	109.90
2	AB	29	G	C6-C5-N7	5.78	133.87	130.40
18	AR	11	VAL	CA-CB-CG1	5.78	119.58	110.90
26	BB	76	C	C2-N3-C4	-5.78	117.01	119.90
26	BB	215	G	C5-C6-O6	5.78	132.07	128.60
26	BB	311	A	C5-N7-C8	-5.78	101.01	103.90
26	BB	923	G	N9-C1'-C2'	-5.78	105.64	112.00
26	BB	1008	A	C5-C6-N1	5.78	120.59	117.70
26	BB	1245	G	N1-C6-O6	5.78	123.37	119.90
26	BB	1454	C	C3'-C2'-C1'	-5.78	96.87	101.50
26	BB	2719	G	N3-C4-N9	5.78	129.47	126.00
1	AA	27	G	C6-C5-N7	5.78	133.87	130.40
1	AA	207	C	C2-N1-C1'	-5.78	112.44	118.80
1	AA	960	U	N1-C2-O2	5.78	126.85	122.80
1	AA	1046	A	C4'-C3'-C2'	-5.78	96.82	102.60
24	AX	66	ARG	CD-NE-CZ	5.78	131.69	123.60
26	BB	432	A	C5-N7-C8	-5.78	101.01	103.90
26	BB	990	A	C6-N1-C2	5.78	122.07	118.60
26	BB	1085	A	C5-N7-C8	-5.78	101.01	103.90
26	BB	1085	A	O4'-C1'-C2'	5.78	112.80	107.60
26	BB	1560	G	N3-C4-N9	5.78	129.47	126.00
26	BB	1606	C	N3-C4-C5	-5.78	119.59	121.90
26	BB	2323	G	C6-C5-N7	-5.78	126.93	130.40
26	BB	2818	U	C3'-C2'-C1'	5.78	106.13	101.50
26	BB	2856	A	C6-C5-N7	5.78	136.35	132.30
1	AA	570	G	N1-C2-N3	5.78	127.37	123.90
25	BA	42	C	N3-C4-C5	-5.78	119.59	121.90
25	BA	47	C	N1-C2-N3	-5.78	115.15	119.20
26	BB	293	U	P-O5'-C5'	5.78	130.15	120.90
26	BB	321	U	C5-C6-N1	-5.78	119.81	122.70
26	BB	696	G	C8-N9-C4	5.78	108.71	106.40
26	BB	882	G	O4'-C1'-N9	5.78	112.83	108.20
26	BB	1128	G	C4'-C3'-C2'	-5.78	96.82	102.60
26	BB	1202	G	N3-C2-N2	-5.78	115.85	119.90
26	BB	1340	U	C4-C5-C6	5.78	123.17	119.70
26	BB	1458	U	N3-C2-O2	-5.78	118.15	122.20
26	BB	1975	G	C4-C5-C6	-5.78	115.33	118.80
26	BB	2267	A	N7-C8-N9	5.78	116.69	113.80
26	BB	2294	G	C2-N3-C4	5.78	114.79	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2350	C	O4'-C4'-C3'	-5.78	98.22	104.00
26	BB	2524	G	C5-C6-O6	-5.78	125.13	128.60
26	BB	2801	G	C4-C5-C6	5.78	122.27	118.80
57	B6	63	TYR	CB-CG-CD2	5.78	124.47	121.00
1	AA	130	A	N9-C4-C5	-5.78	103.49	105.80
1	AA	959	A	C5-N7-C8	5.78	106.79	103.90
1	AA	1445	U	C5'-C4'-O4'	5.78	116.03	109.10
25	BA	52	A	C5-N7-C8	-5.78	101.01	103.90
26	BB	5	A	N7-C8-N9	5.78	116.69	113.80
26	BB	1349	C	O4'-C1'-N1	5.78	112.82	108.20
26	BB	1812	U	C5-C4-O4	-5.78	122.43	125.90
26	BB	1831	G	C1'-O4'-C4'	5.78	114.52	109.90
26	BB	2247	A	C3'-C2'-C1'	5.78	106.12	101.50
1	AA	111	G	C5'-C4'-O4'	5.78	116.03	109.10
1	AA	402	G	N3-C2-N2	-5.78	115.86	119.90
4	AD	19	G	C2-N3-C4	5.78	114.79	111.90
26	BB	55	G	N1-C2-N2	5.78	121.40	116.20
26	BB	140	C	N3-C4-N4	5.78	122.04	118.00
26	BB	320	A	C4-C5-N7	-5.78	107.81	110.70
26	BB	654	A	N1-C2-N3	-5.78	126.41	129.30
26	BB	1047	G	C4-C5-C6	5.78	122.27	118.80
26	BB	1256	G	C5-C6-O6	-5.78	125.13	128.60
26	BB	1883	U	N3-C4-C5	5.78	118.07	114.60
26	BB	2042	A	C4-C5-N7	5.78	113.59	110.70
26	BB	2045	C	P-O3'-C3'	5.78	126.63	119.70
26	BB	2458	G	C5-N7-C8	-5.78	101.41	104.30
26	BB	2681	C	C5'-C4'-C3'	-5.78	106.76	116.00
36	BL	74	TYR	CD1-CE1-CZ	-5.78	114.60	119.80
1	AA	46	G	P-O3'-C3'	5.78	126.63	119.70
1	AA	379	C	N3-C4-N4	5.78	122.04	118.00
1	AA	682	G	C6-N1-C2	-5.78	121.64	125.10
1	AA	990	C	O5'-P-OP2	-5.78	100.50	105.70
1	AA	1155	A	C5'-C4'-O4'	5.78	116.03	109.10
1	AA	1173	U	N3-C4-C5	-5.78	111.14	114.60
1	AA	1434	A	C4-C5-C6	-5.78	114.11	117.00
26	BB	10	A	O4'-C1'-N9	5.78	112.82	108.20
26	BB	317	G	O4'-C4'-C3'	5.78	110.72	106.10
26	BB	802	A	C6-N1-C2	-5.78	115.14	118.60
26	BB	815	C	C4-C5-C6	-5.78	114.51	117.40
26	BB	990	A	C5-C6-N6	5.78	128.32	123.70
26	BB	2110	G	C4-C5-C6	5.78	122.27	118.80
26	BB	2309	A	N1-C6-N6	5.78	122.06	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	323	U	P-O3'-C3'	5.77	126.63	119.70
1	AA	686	U	C4'-C3'-C2'	-5.77	96.83	102.60
1	AA	983	A	C1'-O4'-C4'	-5.77	105.28	109.90
1	AA	1213	A	O4'-C4'-C3'	-5.77	98.23	104.00
25	BA	63	C	C5-C6-N1	-5.77	118.11	121.00
26	BB	157	C	C2-N3-C4	-5.77	117.01	119.90
26	BB	577	G	N1-C6-O6	5.77	123.36	119.90
26	BB	908	C	C4-C5-C6	5.77	120.29	117.40
26	BB	1244	A	C6-C5-N7	-5.77	128.26	132.30
26	BB	1559	U	C5-C4-O4	-5.77	122.44	125.90
26	BB	1770	G	C5'-C4'-O4'	5.77	116.03	109.10
26	BB	1802	A	O5'-C5'-C4'	-5.77	100.73	111.70
26	BB	2042	A	N3-C4-C5	5.77	130.84	126.80
26	BB	2244	U	C4-C5-C6	5.77	123.16	119.70
26	BB	2671	G	N3-C2-N2	5.77	123.94	119.90
26	BB	2749	A	C5'-C4'-C3'	-5.77	106.76	116.00
26	BB	2822	G	N3-C4-C5	-5.77	125.71	128.60
1	AA	211	G	N1-C2-N3	5.77	127.36	123.90
1	AA	1155	A	C4-C5-C6	-5.77	114.11	117.00
1	AA	1430	A	N9-C1'-C2'	-5.77	105.65	112.00
1	AA	1481	U	O4'-C1'-N1	5.77	112.82	108.20
1	AA	1525	G	O4'-C1'-N9	5.77	112.82	108.20
25	BA	20	G	N7-C8-N9	5.77	115.99	113.10
25	BA	102	G	N3-C4-C5	-5.77	125.71	128.60
26	BB	28	A	N1-C6-N6	5.77	122.06	118.60
26	BB	929	U	N3-C2-O2	-5.77	118.16	122.20
26	BB	964	C	N1-C2-O2	5.77	122.36	118.90
26	BB	1641	A	C4'-C3'-C2'	-5.77	96.83	102.60
26	BB	1969	A	N1-C6-N6	5.77	122.06	118.60
26	BB	2007	U	C4'-C3'-C2'	-5.77	96.83	102.60
26	BB	2123	G	N3-C4-N9	-5.77	122.54	126.00
26	BB	2187	U	C1'-O4'-C4'	-5.77	105.28	109.90
26	BB	2234	G	N9-C4-C5	5.77	107.71	105.40
26	BB	2293	G	O4'-C1'-N9	5.77	112.82	108.20
26	BB	2569	G	C1'-O4'-C4'	-5.77	105.28	109.90
26	BB	2790	U	C4-C5-C6	5.77	123.16	119.70
26	BB	2795	C	O5'-P-OP2	-5.77	100.50	105.70
33	BI	100	ALA	O-C-N	5.77	131.94	122.70
1	AA	585	G	C4-C5-N7	-5.77	108.49	110.80
1	AA	1231	G	C3'-C2'-C1'	5.77	106.12	101.50
25	BA	5	U	O4'-C1'-N1	5.77	112.82	108.20
26	BB	71	A	C8-N9-C4	-5.77	103.49	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1072	C	C2-N1-C1'	-5.77	112.45	118.80
26	BB	2014	A	N1-C2-N3	-5.77	126.42	129.30
26	BB	2179	C	C5'-C4'-C3'	-5.77	106.77	116.00
1	AA	277	C	N1-C2-N3	-5.77	115.16	119.20
1	AA	420	U	N3-C4-O4	5.77	123.44	119.40
1	AA	1146	A	C3'-C2'-C1'	5.77	106.11	101.50
2	AB	28	C	N3-C2-O2	-5.77	117.86	121.90
2	AB	66	C	N3-C4-C5	5.77	124.21	121.90
4	AD	30	G	C2-N3-C4	5.77	114.78	111.90
4	AD	70	C	N3-C4-C5	5.77	124.21	121.90
6	AF	126	ARG	NE-CZ-NH2	-5.77	117.42	120.30
14	AN	10	ARG	NE-CZ-NH2	-5.77	117.42	120.30
25	BA	82	U	N1-C1'-C2'	-5.77	105.65	112.00
26	BB	688	U	O4'-C4'-C3'	5.77	110.72	106.10
26	BB	881	G	N1-C2-N3	-5.77	120.44	123.90
26	BB	940	G	C6-C5-N7	5.77	133.86	130.40
26	BB	1380	G	N1-C2-N3	5.77	127.36	123.90
26	BB	1515	A	C6-C5-N7	5.77	136.34	132.30
26	BB	2057	G	N1-C6-O6	-5.77	116.44	119.90
26	BB	2234	G	N9-C1'-C2'	-5.77	105.65	112.00
26	BB	2262	U	C2-N3-C4	-5.77	123.54	127.00
26	BB	2471	A	N9-C4-C5	5.77	108.11	105.80
1	AA	588	G	P-O3'-C3'	5.77	126.62	119.70
26	BB	15	G	C5-C6-O6	5.77	132.06	128.60
26	BB	110	G	C8-N9-C1'	5.77	134.50	127.00
26	BB	208	C	C6-N1-C1'	5.77	127.72	120.80
26	BB	509	C	C5-C4-N4	-5.77	116.16	120.20
26	BB	1411	U	C5-C4-O4	-5.77	122.44	125.90
26	BB	1581	G	O4'-C1'-N9	5.77	112.81	108.20
26	BB	1727	C	O4'-C1'-N1	5.77	112.81	108.20
26	BB	2565	A	C3'-C2'-C1'	5.77	106.11	101.50
26	BB	2823	A	N1-C6-N6	-5.77	115.14	118.60
26	BB	2824	C	N3-C4-C5	5.77	124.21	121.90
1	AA	382	A	C5'-C4'-C3'	5.77	125.23	116.00
1	AA	523	A	N1-C2-N3	-5.77	126.42	129.30
1	AA	764	C	N3-C4-C5	-5.77	119.59	121.90
1	AA	1028	C	N3-C2-O2	5.77	125.94	121.90
3	AC	58	C	C5-C4-N4	5.77	124.24	120.20
26	BB	236	C	N3-C4-N4	5.77	122.04	118.00
1	AA	652	U	O4'-C1'-N1	5.76	112.81	108.20
1	AA	897	C	N3-C2-O2	-5.76	117.86	121.90
2	AB	4	G	C6-C5-N7	-5.76	126.94	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	70	C	N1-C2-O2	5.76	122.36	118.90
26	BB	288	U	C5'-C4'-O4'	5.76	116.02	109.10
26	BB	303	G	N1-C2-N2	5.76	121.39	116.20
26	BB	485	C	C5'-C4'-O4'	5.76	116.02	109.10
26	BB	1068	G	C5'-C4'-O4'	5.76	116.02	109.10
26	BB	1779	U	C5-C6-N1	-5.76	119.82	122.70
26	BB	2132	U	O4'-C1'-N1	5.76	112.81	108.20
26	BB	2500	U	C6-N1-C2	-5.76	117.54	121.00
26	BB	2751	G	C5-C6-O6	-5.76	125.14	128.60
35	BK	92	PRO	N-CA-CB	5.76	110.22	103.30
39	BO	18	ARG	NE-CZ-NH2	5.76	123.18	120.30
1	AA	289	G	N9-C4-C5	-5.76	103.09	105.40
1	AA	563	A	C5-C6-N6	-5.76	119.09	123.70
1	AA	656	G	N3-C2-N2	-5.76	115.87	119.90
1	AA	773	G	C4-C5-N7	-5.76	108.50	110.80
26	BB	380	G	N3-C2-N2	-5.76	115.87	119.90
26	BB	710	U	N3-C4-O4	5.76	123.43	119.40
26	BB	977	G	O4'-C1'-N9	5.76	112.81	108.20
26	BB	2366	A	N1-C2-N3	-5.76	126.42	129.30
26	BB	2800	A	C6-C5-N7	-5.76	128.27	132.30
56	B5	18	PHE	CG-CD1-CE1	-5.76	114.46	120.80
1	AA	1196	A	N9-C4-C5	5.76	108.11	105.80
1	AA	1261	A	C5-C6-N6	5.76	128.31	123.70
26	BB	96	C	C5-C4-N4	5.76	124.23	120.20
26	BB	114	U	C4-C5-C6	5.76	123.16	119.70
26	BB	391	A	C5-C6-N1	5.76	120.58	117.70
26	BB	475	C	N3-C2-O2	-5.76	117.87	121.90
26	BB	1634	A	C2-N3-C4	-5.76	107.72	110.60
26	BB	2289	G	C6-C5-N7	-5.76	126.94	130.40
26	BB	2394	C	C2-N1-C1'	5.76	125.14	118.80
26	BB	2853	C	O5'-P-OP1	5.76	117.61	110.70
1	AA	471	U	N3-C4-C5	-5.76	111.14	114.60
1	AA	1171	A	C6-N1-C2	5.76	122.06	118.60
1	AA	1374	A	N9-C4-C5	-5.76	103.50	105.80
26	BB	563	A	C5-N7-C8	5.76	106.78	103.90
26	BB	1648	U	C4'-C3'-C2'	-5.76	96.84	102.60
26	BB	1717	A	C5-N7-C8	5.76	106.78	103.90
26	BB	1805	A	C5-C6-N6	5.76	128.31	123.70
26	BB	1829	A	C4'-C3'-C2'	-5.76	96.84	102.60
26	BB	2116	G	C8-N9-C4	-5.76	104.10	106.40
26	BB	2250	G	C6-N1-C2	-5.76	121.64	125.10
1	AA	942	G	C2-N3-C4	5.76	114.78	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	23	G	O4'-C4'-C3'	5.76	110.71	106.10
26	BB	303	G	C3'-C2'-C1'	-5.76	96.89	101.50
26	BB	867	C	O4'-C1'-N1	-5.76	103.59	108.20
26	BB	1153	C	N1-C2-O2	5.76	122.36	118.90
26	BB	1192	G	N9-C4-C5	5.76	107.70	105.40
26	BB	2010	G	O4'-C1'-N9	5.76	112.81	108.20
26	BB	2231	U	N3-C2-O2	-5.76	118.17	122.20
29	BE	125	TRP	CD1-CG-CD2	-5.76	101.69	106.30
1	AA	77	A	N7-C8-N9	5.76	116.68	113.80
1	AA	534	U	C2-N1-C1'	5.76	124.61	117.70
1	AA	725	G	N3-C4-C5	5.76	131.48	128.60
1	AA	960	U	O4'-C1'-N1	5.76	112.81	108.20
1	AA	1166	G	O4'-C1'-N9	5.76	112.81	108.20
8	AH	40	ASP	OD1-CG-OD2	5.76	134.24	123.30
25	BA	106	G	N9-C4-C5	5.76	107.70	105.40
26	BB	98	G	N1-C2-N3	-5.76	120.45	123.90
26	BB	649	G	O4'-C4'-C3'	5.76	110.71	106.10
26	BB	816	C	C5-C4-N4	-5.76	116.17	120.20
26	BB	917	A	C5'-C4'-O4'	5.76	116.01	109.10
26	BB	1445	G	C8-N9-C4	-5.76	104.10	106.40
26	BB	2202	U	C3'-C2'-C1'	5.76	106.11	101.50
27	BC	53	ARG	NE-CZ-NH2	-5.76	117.42	120.30
43	BS	60	TRP	NE1-CE2-CZ2	5.76	136.73	130.40
1	AA	150	U	C4'-C3'-C2'	-5.75	96.84	102.60
1	AA	1092	A	C5-N7-C8	5.75	106.78	103.90
1	AA	1181	G	C8-N9-C1'	5.75	134.48	127.00
3	AC	26	U	N1-C1'-C2'	5.75	121.48	114.00
25	BA	100	G	C5-C6-N1	5.75	114.38	111.50
26	BB	629	G	C3'-C2'-C1'	5.75	106.10	101.50
26	BB	784	G	N7-C8-N9	5.75	115.98	113.10
26	BB	906	U	N1-C2-N3	5.75	118.35	114.90
26	BB	1916	A	N1-C2-N3	-5.75	126.42	129.30
26	BB	2131	U	N1-C1'-C2'	-5.75	105.67	112.00
1	AA	305	G	C5-N7-C8	-5.75	101.42	104.30
1	AA	351	G	N1-C2-N3	5.75	127.35	123.90
1	AA	451	A	N9-C4-C5	5.75	108.10	105.80
1	AA	508	U	O4'-C1'-C2'	-5.75	100.05	105.80
1	AA	1081	A	C2-N3-C4	5.75	113.48	110.60
1	AA	1144	G	C5'-C4'-O4'	5.75	116.00	109.10
1	AA	1261	A	C6-C5-N7	-5.75	128.27	132.30
2	AB	36	A	C3'-C2'-C1'	5.75	106.10	101.50
4	AD	7	G	C2-N3-C4	5.75	114.78	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	502	A	P-O3'-C3'	5.75	126.60	119.70
26	BB	901	C	C5'-C4'-C3'	-5.75	106.80	116.00
26	BB	1038	G	N9-C4-C5	-5.75	103.10	105.40
26	BB	1134	A	O3'-P-O5'	-5.75	93.07	104.00
26	BB	1340	U	C2-N3-C4	-5.75	123.55	127.00
26	BB	1376	C	OP1-P-OP2	5.75	128.23	119.60
26	BB	1468	U	N3-C4-C5	-5.75	111.15	114.60
26	BB	1823	G	C3'-C2'-C1'	5.75	106.10	101.50
26	BB	2772	C	N3-C4-N4	5.75	122.03	118.00
1	AA	97	G	C4-C5-C6	5.75	122.25	118.80
1	AA	217	C	N3-C4-C5	-5.75	119.60	121.90
1	AA	223	A	C4-C5-C6	-5.75	114.12	117.00
1	AA	318	G	C4'-C3'-C2'	-5.75	96.85	102.60
1	AA	520	A	N9-C4-C5	5.75	108.10	105.80
1	AA	1363	A	N1-C6-N6	5.75	122.05	118.60
19	AS	8	ARG	NE-CZ-NH1	5.75	123.18	120.30
25	BA	86	G	C8-N9-C4	-5.75	104.10	106.40
25	BA	96	G	C5-C6-N1	5.75	114.38	111.50
26	BB	251	A	C2-N3-C4	5.75	113.48	110.60
26	BB	444	C	N3-C4-C5	-5.75	119.60	121.90
26	BB	476	G	C5'-C4'-O4'	5.75	116.00	109.10
26	BB	711	G	C4-C5-N7	-5.75	108.50	110.80
26	BB	846	U	C5-C4-O4	-5.75	122.45	125.90
26	BB	878	A	C6-N1-C2	5.75	122.05	118.60
26	BB	1193	G	N1-C6-O6	5.75	123.35	119.90
26	BB	1291	C	C2-N3-C4	5.75	122.78	119.90
26	BB	1455	G	N9-C1'-C2'	-5.75	105.67	112.00
26	BB	1676	A	C6-C5-N7	5.75	136.33	132.30
26	BB	1940	U	O4'-C4'-C3'	5.75	110.70	106.10
26	BB	1988	G	C6-N1-C2	-5.75	121.65	125.10
26	BB	2386	A	N9-C4-C5	-5.75	103.50	105.80
26	BB	2728	U	C1'-O4'-C4'	-5.75	105.30	109.90
1	AA	406	G	N3-C4-C5	-5.75	125.72	128.60
1	AA	519	C	C2-N3-C4	-5.75	117.03	119.90
1	AA	1131	G	O4'-C1'-N9	5.75	112.80	108.20
1	AA	1352	C	C2-N3-C4	-5.75	117.03	119.90
16	AP	81	ASP	CB-CG-OD2	5.75	123.47	118.30
25	BA	16	G	C5-N7-C8	-5.75	101.42	104.30
26	BB	78	U	C5-C4-O4	-5.75	122.45	125.90
1	AA	49	U	N3-C2-O2	-5.75	118.18	122.20
1	AA	97	G	N3-C4-N9	5.75	129.45	126.00
1	AA	146	G	C2-N3-C4	5.75	114.77	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	329	A	C6-N1-C2	5.75	122.05	118.60
1	AA	474	G	C6-C5-N7	5.75	133.85	130.40
1	AA	841	C	C2-N3-C4	5.75	122.78	119.90
1	AA	1057	G	C5-C6-N1	5.75	114.38	111.50
1	AA	1124	G	N9-C4-C5	5.75	107.70	105.40
26	BB	70	G	N7-C8-N9	5.75	115.97	113.10
26	BB	87	U	N3-C2-O2	-5.75	118.17	122.20
26	BB	502	A	P-O5'-C5'	5.75	130.10	120.90
26	BB	748	G	N3-C4-C5	-5.75	125.73	128.60
26	BB	823	C	O4'-C1'-N1	5.75	112.80	108.20
26	BB	1030	C	N3-C4-C5	-5.75	119.60	121.90
26	BB	1623	G	C5-C6-O6	-5.75	125.15	128.60
26	BB	1922	G	N9-C4-C5	5.75	107.70	105.40
26	BB	2699	C	N1-C2-O2	5.75	122.35	118.90
26	BB	2719	G	C5-C6-N1	-5.75	108.63	111.50
1	AA	239	U	O4'-C4'-C3'	-5.75	98.25	104.00
25	BA	19	C	C2-N3-C4	5.75	122.77	119.90
25	BA	39	A	C8-N9-C4	5.75	108.10	105.80
26	BB	297	G	N1-C6-O6	5.75	123.35	119.90
26	BB	424	G	N1-C6-O6	5.75	123.35	119.90
26	BB	518	G	N1-C6-O6	-5.75	116.45	119.90
26	BB	1555	G	O4'-C1'-N9	5.75	112.80	108.20
26	BB	2339	C	C2-N3-C4	-5.75	117.03	119.90
26	BB	2593	U	N1-C1'-C2'	-5.75	105.68	112.00
39	BO	65	ILE	CA-CB-CG1	5.75	121.92	111.00
26	BB	1876	A	C8-N9-C4	-5.75	103.50	105.80
26	BB	2048	G	C3'-C2'-C1'	-5.75	96.90	101.50
26	BB	2618	G	O4'-C1'-N9	5.75	112.80	108.20
26	BB	2873	A	N9-C1'-C2'	5.75	121.47	114.00
39	BO	91	TYR	CD1-CE1-CZ	5.75	124.97	119.80
50	BZ	26	ARG	CD-NE-CZ	5.75	131.64	123.60
1	AA	8	A	N3-C4-C5	5.74	130.82	126.80
1	AA	267	C	C4-C5-C6	-5.74	114.53	117.40
1	AA	356	A	C5-N7-C8	5.74	106.77	103.90
1	AA	861	G	C5-C6-O6	-5.74	125.15	128.60
1	AA	1131	G	N1-C2-N3	-5.74	120.45	123.90
1	AA	1494	G	C5'-C4'-O4'	5.74	115.99	109.10
2	AB	11	U	C2-N1-C1'	-5.74	110.81	117.70
26	BB	145	C	C2-N1-C1'	-5.74	112.48	118.80
26	BB	359	G	C5'-C4'-O4'	5.74	115.99	109.10
26	BB	520	G	C5-C6-O6	-5.74	125.15	128.60
26	BB	715	A	C4-C5-N7	-5.74	107.83	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1000	A	C8-N9-C4	-5.74	103.50	105.80
26	BB	1309	G	N1-C6-O6	-5.74	116.45	119.90
26	BB	1385	A	C6-C5-N7	-5.74	128.28	132.30
26	BB	1641	A	C8-N9-C4	-5.74	103.50	105.80
26	BB	1755	A	O4'-C1'-N9	5.74	112.80	108.20
26	BB	2432	A	P-O3'-C3'	5.74	126.59	119.70
41	BQ	30	ARG	NH1-CZ-NH2	-5.74	113.08	119.40
1	AA	1318	A	C5-C6-N1	5.74	120.57	117.70
9	AI	64	VAL	CA-CB-CG1	5.74	119.51	110.90
26	BB	340	A	N7-C8-N9	-5.74	110.93	113.80
26	BB	342	A	N3-C4-C5	-5.74	122.78	126.80
26	BB	569	U	C5-C4-O4	5.74	129.34	125.90
26	BB	1423	G	C5-C6-N1	5.74	114.37	111.50
26	BB	2486	C	C5-C6-N1	5.74	123.87	121.00
26	BB	2611	C	N1-C2-O2	5.74	122.34	118.90
26	BB	2716	C	N1-C2-O2	5.74	122.34	118.90
1	AA	165	G	N1-C2-N3	-5.74	120.46	123.90
1	AA	631	C	C4'-C3'-C2'	5.74	108.34	102.60
1	AA	644	U	N3-C2-O2	-5.74	118.18	122.20
1	AA	1029	U	N1-C1'-C2'	-5.74	105.69	112.00
1	AA	1532	U	N3-C4-O4	-5.74	115.38	119.40
2	AB	9	A	C5-C6-N6	5.74	128.29	123.70
2	AB	47	U	C4'-C3'-C2'	-5.74	96.86	102.60
11	AK	73	SER	CB-CA-C	5.74	121.01	110.10
26	BB	144	A	C4-C5-C6	-5.74	114.13	117.00
26	BB	943	A	O5'-P-OP2	-5.74	100.53	105.70
26	BB	1269	A	C5'-C4'-C3'	-5.74	106.81	116.00
26	BB	1610	A	N9-C1'-C2'	-5.74	105.69	112.00
26	BB	1855	U	C5'-C4'-O4'	5.74	115.99	109.10
26	BB	2494	G	C5'-C4'-O4'	5.74	115.99	109.10
26	BB	2581	G	C1'-O4'-C4'	-5.74	105.31	109.90
1	AA	439	U	C2-N3-C4	-5.74	123.56	127.00
1	AA	802	A	N3-C4-N9	-5.74	122.81	127.40
1	AA	1155	A	C5-C6-N1	5.74	120.57	117.70
1	AA	1302	C	C6-N1-C2	-5.74	118.00	120.30
2	AB	40	C	N3-C4-N4	5.74	122.02	118.00
3	AC	59	A	C6-C5-N7	5.74	136.32	132.30
4	AD	37	U	C5-C6-N1	-5.74	119.83	122.70
26	BB	309	A	C5-C6-N1	5.74	120.57	117.70
26	BB	326	G	C4'-C3'-C2'	-5.74	96.86	102.60
26	BB	400	G	C6-N1-C2	-5.74	121.66	125.10
26	BB	427	U	C5-C4-O4	-5.74	122.46	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1774	C	C5-C4-N4	-5.74	116.18	120.20
26	BB	1837	C	C5'-C4'-C3'	-5.74	106.82	116.00
26	BB	2012	G	C8-N9-C4	-5.74	104.11	106.40
26	BB	2333	A	C5-C6-N6	-5.74	119.11	123.70
26	BB	2596	U	C6-N1-C2	-5.74	117.56	121.00
41	BQ	20	GLU	OE1-CD-OE2	5.74	130.19	123.30
1	AA	617	G	N3-C2-N2	5.74	123.92	119.90
1	AA	1255	G	C2-N3-C4	5.74	114.77	111.90
24	AX	22	CYS	CA-CB-SG	-5.74	103.67	114.00
26	BB	204	A	C5'-C4'-O4'	-5.74	102.22	109.10
26	BB	326	G	C2-N3-C4	-5.74	109.03	111.90
26	BB	1283	G	C1'-O4'-C4'	5.74	114.49	109.90
1	AA	262	A	C5-N7-C8	5.74	106.77	103.90
1	AA	544	G	N3-C4-N9	-5.74	122.56	126.00
1	AA	1035	A	C4'-C3'-C2'	-5.74	96.86	102.60
1	AA	1209	C	C5'-C4'-C3'	5.74	125.18	116.00
2	AB	53	G	C5-C6-O6	5.74	132.04	128.60
4	AD	51	U	N1-C2-O2	5.74	126.81	122.80
26	BB	96	C	P-O3'-C3'	5.74	126.58	119.70
26	BB	97	C	C4-C5-C6	5.74	120.27	117.40
26	BB	148	U	C1'-O4'-C4'	5.74	114.49	109.90
26	BB	248	G	C8-N9-C4	-5.74	104.11	106.40
26	BB	368	A	N3-C4-N9	-5.74	122.81	127.40
26	BB	690	G	C4'-C3'-C2'	-5.74	96.86	102.60
26	BB	1664	A	C4'-C3'-C2'	5.74	108.33	102.60
26	BB	2888	C	C4'-C3'-C2'	-5.74	96.86	102.60
1	AA	627	G	N3-C4-N9	5.73	129.44	126.00
1	AA	1201	A	N1-C6-N6	5.73	122.04	118.60
1	AA	1241	G	C8-N9-C4	5.73	108.69	106.40
1	AA	1523	G	C2-N3-C4	5.73	114.77	111.90
25	BA	51	G	N7-C8-N9	5.73	115.97	113.10
26	BB	172	A	C1'-O4'-C4'	5.73	114.49	109.90
26	BB	260	G	C8-N9-C4	-5.73	104.11	106.40
26	BB	1462	C	C6-N1-C2	-5.73	118.01	120.30
26	BB	1742	U	N3-C4-O4	5.73	123.41	119.40
26	BB	1875	G	C6-C5-N7	-5.73	126.96	130.40
26	BB	1919	A	O4'-C1'-C2'	-5.73	100.07	105.80
41	BQ	2	ASP	CB-CG-OD1	-5.73	113.14	118.30
1	AA	313	A	N7-C8-N9	5.73	116.67	113.80
1	AA	349	A	N1-C2-N3	-5.73	126.43	129.30
1	AA	380	G	C4'-C3'-C2'	-5.73	96.87	102.60
1	AA	401	C	C5'-C4'-O4'	5.73	115.98	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1173	U	N3-C4-O4	5.73	123.41	119.40
26	BB	26	G	C5-C6-N1	5.73	114.37	111.50
26	BB	159	G	C4-C5-N7	-5.73	108.51	110.80
26	BB	1126	A	C8-N9-C4	-5.73	103.51	105.80
26	BB	1150	C	N3-C4-C5	5.73	124.19	121.90
26	BB	1826	G	N3-C2-N2	-5.73	115.89	119.90
26	BB	2286	G	N1-C2-N3	-5.73	120.46	123.90
26	BB	2396	G	C5-N7-C8	-5.73	101.43	104.30
26	BB	2622	U	N3-C4-O4	5.73	123.41	119.40
26	BB	2879	A	P-O3'-C3'	5.73	126.58	119.70
29	BE	180	VAL	CG1-CB-CG2	-5.73	101.73	110.90
1	AA	451	A	C1'-O4'-C4'	5.73	114.48	109.90
1	AA	1356	G	N9-C1'-C2'	-5.73	105.69	112.00
2	AB	12	U	N1-C2-O2	5.73	126.81	122.80
26	BB	189	G	N3-C4-N9	-5.73	122.56	126.00
26	BB	215	G	C4'-C3'-C2'	-5.73	96.87	102.60
26	BB	288	U	C6-N1-C2	-5.73	117.56	121.00
26	BB	392	U	C2'-C3'-O3'	5.73	122.87	113.70
26	BB	924	G	C5-C6-O6	-5.73	125.16	128.60
26	BB	1005	C	O4'-C1'-N1	5.73	112.78	108.20
26	BB	1211	C	N1-C2-O2	5.73	122.34	118.90
26	BB	1239	G	P-O3'-C3'	5.73	126.58	119.70
26	BB	1509	A	C5-N7-C8	5.73	106.77	103.90
26	BB	1814	G	N3-C4-N9	-5.73	122.56	126.00
26	BB	2123	G	C6-N1-C2	-5.73	121.66	125.10
26	BB	2490	G	O4'-C4'-C3'	5.73	110.68	106.10
26	BB	2637	U	N3-C4-O4	5.73	123.41	119.40
27	BC	185	LEU	CB-CG-CD1	-5.73	101.26	111.00
1	AA	683	G	O4'-C1'-N9	5.73	112.78	108.20
4	AD	3	C	C5-C4-N4	-5.73	116.19	120.20
24	AX	20	ARG	NE-CZ-NH2	-5.73	117.44	120.30
26	BB	1009	A	C4-C5-N7	5.73	113.56	110.70
26	BB	1767	G	C4-C5-C6	5.73	122.24	118.80
26	BB	2056	G	C2-N3-C4	5.73	114.76	111.90
26	BB	2281	A	C6-N1-C2	-5.73	115.16	118.60
26	BB	2312	U	O5'-P-OP2	-5.73	100.54	105.70
39	BO	68	PHE	CB-CG-CD1	-5.73	116.79	120.80
1	AA	435	A	N1-C2-N3	-5.73	126.44	129.30
1	AA	448	A	C3'-C2'-C1'	5.73	106.08	101.50
1	AA	600	A	C5'-C4'-C3'	-5.73	106.84	116.00
1	AA	602	A	C6-N1-C2	5.73	122.04	118.60
1	AA	778	G	N3-C4-C5	5.73	131.46	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1040	U	N3-C2-O2	-5.73	118.19	122.20
1	AA	1371	G	C1'-O4'-C4'	5.73	114.48	109.90
1	AA	1376	U	C3'-C2'-C1'	-5.73	96.92	101.50
1	AA	1376	U	N1-C2-N3	5.73	118.34	114.90
1	AA	1412	C	O4'-C1'-N1	5.73	112.78	108.20
12	AL	79	ARG	NE-CZ-NH2	5.73	123.16	120.30
20	AT	10	ARG	NE-CZ-NH1	-5.73	117.44	120.30
21	AU	28	LEU	CB-CG-CD2	5.73	120.74	111.00
26	BB	179	C	N1-C1'-C2'	-5.73	105.70	112.00
26	BB	1789	A	C1'-O4'-C4'	-5.73	105.32	109.90
26	BB	1970	A	N3-C4-C5	-5.73	122.79	126.80
26	BB	2077	A	C1'-O4'-C4'	-5.73	105.32	109.90
26	BB	2740	A	C6-N1-C2	5.73	122.04	118.60
1	AA	62	U	N3-C4-O4	5.73	123.41	119.40
1	AA	134	G	C5-C6-N1	5.73	114.36	111.50
1	AA	1309	G	C5'-C4'-O4'	5.73	115.97	109.10
1	AA	1484	C	C2-N3-C4	-5.73	117.04	119.90
26	BB	124	G	O3'-P-O5'	-5.73	93.12	104.00
26	BB	566	U	C5-C4-O4	5.73	129.34	125.90
26	BB	866	A	O3'-P-O5'	-5.73	93.12	104.00
26	BB	1149	G	O4'-C1'-N9	5.73	112.78	108.20
26	BB	1537	G	N1-C2-N3	5.73	127.33	123.90
26	BB	1648	U	C5-C4-O4	-5.73	122.46	125.90
26	BB	1901	A	N7-C8-N9	-5.73	110.94	113.80
26	BB	2702	G	N1-C2-N2	5.73	121.35	116.20
1	AA	396	C	C4-C5-C6	5.72	120.26	117.40
1	AA	1098	C	N3-C4-N4	5.72	122.01	118.00
1	AA	1114	C	C6-N1-C2	5.72	122.59	120.30
1	AA	1229	A	C5-C6-N6	-5.72	119.12	123.70
1	AA	1477	U	N3-C4-O4	5.72	123.41	119.40
26	BB	10	A	C2-N3-C4	-5.72	107.74	110.60
26	BB	150	U	N1-C1'-C2'	-5.72	105.70	112.00
26	BB	1247	A	C8-N9-C4	-5.72	103.51	105.80
26	BB	1411	U	C4'-C3'-C2'	-5.72	96.88	102.60
26	BB	1463	C	C5-C6-N1	5.72	123.86	121.00
26	BB	1808	A	C3'-C2'-C1'	5.72	106.08	101.50
26	BB	1978	A	C5-N7-C8	5.72	106.76	103.90
26	BB	2081	U	O4'-C1'-N1	5.72	112.78	108.20
1	AA	178	C	C4'-C3'-C2'	-5.72	96.88	102.60
1	AA	269	C	C5-C4-N4	5.72	124.21	120.20
1	AA	1042	A	C4-C5-N7	-5.72	107.84	110.70
1	AA	1169	A	O4'-C1'-C2'	5.72	112.75	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1170	A	C4-C5-N7	-5.72	107.84	110.70
1	AA	1384	C	N3-C2-O2	-5.72	117.89	121.90
1	AA	1434	A	C3'-C2'-C1'	-5.72	96.92	101.50
1	AA	1512	U	N3-C4-O4	5.72	123.41	119.40
26	BB	175	G	N3-C2-N2	-5.72	115.89	119.90
26	BB	534	U	C3'-C2'-C1'	-5.72	96.92	101.50
26	BB	956	G	N3-C4-C5	-5.72	125.74	128.60
26	BB	1154	G	O4'-C1'-N9	5.72	112.78	108.20
26	BB	1529	G	N3-C4-N9	5.72	129.43	126.00
26	BB	1537	G	N7-C8-N9	5.72	115.96	113.10
26	BB	1687	G	C8-N9-C4	-5.72	104.11	106.40
26	BB	1932	A	N9-C1'-C2'	-5.72	105.70	112.00
49	BY	48	ALA	CB-CA-C	5.72	118.68	110.10
1	AA	1302	C	O3'-P-O5'	-5.72	93.13	104.00
25	BA	50	A	N3-C4-C5	-5.72	122.80	126.80
26	BB	582	A	C5-C6-N6	-5.72	119.12	123.70
26	BB	1143	A	O5'-P-OP1	-5.72	100.55	105.70
26	BB	1425	G	P-O3'-C3'	5.72	126.57	119.70
26	BB	2092	U	N3-C4-C5	5.72	118.03	114.60
26	BB	2208	C	C2-N3-C4	5.72	122.76	119.90
26	BB	2282	G	C6-N1-C2	-5.72	121.67	125.10
1	AA	456	A	N9-C4-C5	5.72	108.09	105.80
1	AA	667	G	N1-C2-N3	-5.72	120.47	123.90
1	AA	923	A	C5'-C4'-O4'	5.72	115.96	109.10
1	AA	976	G	N1-C6-O6	-5.72	116.47	119.90
1	AA	1318	A	C4'-C3'-C2'	5.72	108.32	102.60
1	AA	1343	G	N1-C6-O6	-5.72	116.47	119.90
25	BA	84	G	C5-C6-O6	-5.72	125.17	128.60
26	BB	90	U	P-O3'-C3'	5.72	126.56	119.70
26	BB	426	C	N1-C2-N3	-5.72	115.20	119.20
26	BB	774	G	O4'-C1'-N9	5.72	112.78	108.20
26	BB	1655	A	O4'-C1'-N9	5.72	112.78	108.20
26	BB	1828	G	C2-N3-C4	5.72	114.76	111.90
26	BB	2037	A	C5-N7-C8	-5.72	101.04	103.90
26	BB	2216	G	C4-C5-C6	5.72	122.23	118.80
26	BB	2622	U	N1-C2-N3	5.72	118.33	114.90
26	BB	2784	U	N1-C1'-C2'	-5.72	105.71	112.00
28	BD	229	HIS	N-CA-CB	-5.72	100.31	110.60
1	AA	1165	U	C3'-C2'-C1'	5.72	106.07	101.50
1	AA	1497	G	C2-N3-C4	5.72	114.76	111.90
3	AC	35	G	N7-C8-N9	5.72	115.96	113.10
26	BB	575	A	C4-C5-C6	-5.72	114.14	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1116	G	C5-N7-C8	5.72	107.16	104.30
26	BB	1586	A	N3-C4-N9	-5.72	122.83	127.40
26	BB	1595	C	N1-C2-O2	-5.72	115.47	118.90
26	BB	1891	G	C5-C6-O6	5.72	132.03	128.60
26	BB	1942	C	C5'-C4'-O4'	5.72	115.96	109.10
26	BB	2128	G	C4-C5-C6	5.72	122.23	118.80
26	BB	2595	G	N3-C2-N2	5.72	123.90	119.90
1	AA	332	G	C8-N9-C4	-5.72	104.11	106.40
1	AA	770	C	C5-C4-N4	5.72	124.20	120.20
1	AA	1117	A	C2-N3-C4	-5.72	107.74	110.60
1	AA	1167	A	C8-N9-C4	-5.72	103.51	105.80
1	AA	1398	A	C2-N3-C4	-5.72	107.74	110.60
1	AA	1529	G	C6-N1-C2	5.72	128.53	125.10
5	AE	15	PHE	CZ-CE2-CD2	-5.72	113.24	120.10
23	AW	23	ARG	NE-CZ-NH2	5.72	123.16	120.30
26	BB	12	U	N3-C2-O2	-5.72	118.20	122.20
26	BB	1010	A	C2-N3-C4	-5.72	107.74	110.60
26	BB	1091	G	N9-C1'-C2'	-5.72	105.71	112.00
26	BB	1378	A	C5-N7-C8	5.72	106.76	103.90
26	BB	1466	U	N3-C4-C5	5.72	118.03	114.60
26	BB	1724	G	N3-C4-N9	-5.72	122.57	126.00
26	BB	1791	A	C2'-C3'-O3'	5.72	122.85	113.70
26	BB	2149	U	N3-C4-O4	5.72	123.40	119.40
26	BB	2158	A	O5'-C5'-C4'	5.72	122.56	111.70
26	BB	2353	G	N3-C4-N9	-5.72	122.57	126.00
1	AA	274	A	C3'-C2'-C1'	5.71	106.07	101.50
1	AA	433	G	C8-N9-C1'	5.71	134.43	127.00
1	AA	553	A	N9-C4-C5	5.71	108.09	105.80
1	AA	1343	G	C5-C6-N1	5.71	114.36	111.50
2	AB	65	C	C6-N1-C2	-5.71	118.01	120.30
26	BB	470	A	C5'-C4'-O4'	5.71	115.96	109.10
26	BB	744	U	C2'-C3'-O3'	5.71	122.84	113.70
26	BB	894	U	P-O3'-C3'	5.71	126.56	119.70
26	BB	1167	C	C4-C5-C6	5.71	120.26	117.40
26	BB	1584	U	N1-C2-O2	-5.71	118.80	122.80
26	BB	1631	G	N7-C8-N9	5.71	115.96	113.10
26	BB	1760	C	N3-C4-N4	5.71	122.00	118.00
26	BB	1987	A	O3'-P-O5'	-5.71	93.14	104.00
26	BB	2640	G	C4-C5-N7	5.71	113.09	110.80
1	AA	1185	G	N9-C1'-C2'	-5.71	105.72	112.00
1	AA	1534	A	C6-N1-C2	5.71	122.03	118.60
26	BB	1245	G	C5'-C4'-C3'	-5.71	106.86	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1715	G	C3'-C2'-C1'	-5.71	96.93	101.50
26	BB	1958	C	C2-N3-C4	5.71	122.76	119.90
26	BB	2697	G	N7-C8-N9	5.71	115.96	113.10
1	AA	316	C	O3'-P-O5'	-5.71	93.15	104.00
1	AA	562	U	C4-C5-C6	5.71	123.13	119.70
1	AA	674	G	N3-C4-C5	-5.71	125.74	128.60
1	AA	825	A	C4'-C3'-C2'	-5.71	96.89	102.60
1	AA	897	C	O4'-C1'-N1	-5.71	103.63	108.20
1	AA	1220	G	O4'-C1'-N9	5.71	112.77	108.20
4	AD	69	C	N3-C4-C5	5.71	124.18	121.90
26	BB	169	G	C5-C6-O6	5.71	132.03	128.60
26	BB	316	C	O3'-P-O5'	-5.71	93.15	104.00
26	BB	376	G	C8-N9-C4	-5.71	104.11	106.40
26	BB	732	C	P-O3'-C3'	5.71	126.56	119.70
26	BB	1144	A	C8-N9-C4	-5.71	103.52	105.80
26	BB	1223	G	N3-C4-N9	5.71	129.43	126.00
26	BB	2270	A	C1'-O4'-C4'	5.71	114.47	109.90
26	BB	2668	G	C6-C5-N7	-5.71	126.97	130.40
1	AA	129	A	C4-C5-C6	-5.71	114.14	117.00
2	AB	76	A	C3'-C2'-C1'	-5.71	96.93	101.50
26	BB	54	G	C4-C5-C6	5.71	122.23	118.80
26	BB	495	G	C5-C6-O6	-5.71	125.17	128.60
26	BB	526	A	O4'-C1'-C2'	5.71	112.74	107.60
26	BB	786	C	C4-C5-C6	-5.71	114.55	117.40
26	BB	1009	A	N3-C4-N9	5.71	131.97	127.40
26	BB	1090	A	C6-C5-N7	-5.71	128.30	132.30
26	BB	1428	C	P-O3'-C3'	5.71	126.55	119.70
26	BB	1491	G	N3-C2-N2	-5.71	115.90	119.90
26	BB	2093	G	C5-N7-C8	5.71	107.16	104.30
1	AA	847	G	N3-C4-C5	-5.71	125.75	128.60
1	AA	850	U	C5-C6-N1	-5.71	119.85	122.70
1	AA	852	G	C5-N7-C8	5.71	107.15	104.30
1	AA	1025	U	C1'-O4'-C4'	5.71	114.47	109.90
1	AA	1481	U	C5-C4-O4	5.71	129.33	125.90
26	BB	383	C	C5'-C4'-C3'	-5.71	106.87	116.00
26	BB	787	C	C5-C6-N1	5.71	123.86	121.00
26	BB	826	U	C6-N1-C2	-5.71	117.57	121.00
26	BB	883	G	N1-C2-N3	-5.71	120.47	123.90
26	BB	1077	A	C6-N1-C2	-5.71	115.17	118.60
26	BB	1575	C	N1-C2-O2	-5.71	115.47	118.90
26	BB	2073	C	C2-N3-C4	5.71	122.75	119.90
26	BB	2235	G	N3-C2-N2	-5.71	115.90	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2821	A	N3-C4-N9	5.71	131.97	127.40
35	BK	19	PRO	N-CA-CB	5.71	110.15	103.30
1	AA	122	G	N1-C6-O6	5.71	123.32	119.90
1	AA	795	C	N3-C2-O2	-5.71	117.91	121.90
1	AA	860	A	N1-C6-N6	5.71	122.02	118.60
1	AA	887	G	C4-C5-N7	5.71	113.08	110.80
1	AA	1349	A	C8-N9-C4	5.71	108.08	105.80
3	AC	24	A	C3'-C2'-C1'	5.71	106.06	101.50
4	AD	24	C	C5-C6-N1	5.71	123.85	121.00
26	BB	784	G	C8-N9-C4	-5.71	104.12	106.40
26	BB	924	G	C5-C6-N1	5.71	114.35	111.50
26	BB	1017	G	N9-C4-C5	5.71	107.68	105.40
26	BB	1194	A	C5-C6-N1	-5.71	114.85	117.70
26	BB	1458	U	N3-C4-C5	-5.71	111.18	114.60
26	BB	2180	U	C6-N1-C2	-5.71	117.58	121.00
26	BB	2549	G	C2-N3-C4	5.71	114.75	111.90
26	BB	2576	G	O4'-C4'-C3'	-5.71	98.29	104.00
26	BB	2861	U	C4-C5-C6	5.71	123.12	119.70
1	AA	31	G	C4'-C3'-C2'	5.71	108.31	102.60
1	AA	48	C	N1-C2-O2	5.71	122.32	118.90
1	AA	1187	G	C3'-C2'-C1'	-5.71	96.94	101.50
1	AA	1330	U	O4'-C4'-C3'	5.71	110.66	106.10
24	AX	38	GLU	OE1-CD-OE2	5.71	130.15	123.30
25	BA	65	U	N1-C2-N3	5.71	118.32	114.90
26	BB	1916	A	N9-C4-C5	5.71	108.08	105.80
26	BB	2500	U	C2-N3-C4	-5.71	123.58	127.00
26	BB	2862	G	C5-C6-O6	-5.71	125.18	128.60
31	BG	168	LEU	CB-CG-CD2	-5.71	101.30	111.00
1	AA	4	U	P-O5'-C5'	5.70	130.02	120.90
1	AA	99	C	C5'-C4'-O4'	5.70	115.94	109.10
1	AA	438	U	O4'-C4'-C3'	5.70	110.66	106.10
1	AA	719	C	C1'-O4'-C4'	5.70	114.46	109.90
1	AA	895	G	C8-N9-C1'	5.70	134.41	127.00
26	BB	98	G	C8-N9-C4	-5.70	104.12	106.40
26	BB	363	G	N9-C4-C5	5.70	107.68	105.40
26	BB	534	U	C5-C4-O4	5.70	129.32	125.90
26	BB	1361	G	C5-C6-O6	-5.70	125.18	128.60
26	BB	1716	U	O4'-C1'-N1	5.70	112.76	108.20
26	BB	2052	A	C4'-C3'-C2'	-5.70	96.90	102.60
26	BB	2067	G	N3-C4-N9	5.70	129.42	126.00
26	BB	2198	A	P-O3'-C3'	5.70	126.55	119.70
26	BB	2276	G	N3-C4-N9	5.70	129.42	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	650	G	N3-C2-N2	-5.70	115.91	119.90
1	AA	955	U	C1'-O4'-C4'	-5.70	105.34	109.90
1	AA	1180	A	N3-C4-C5	-5.70	122.81	126.80
26	BB	1101	U	C5-C4-O4	-5.70	122.48	125.90
26	BB	1684	G	C3'-C2'-C1'	5.70	106.06	101.50
26	BB	2252	G	C4'-C3'-C2'	-5.70	96.90	102.60
26	BB	2678	C	C2-N3-C4	5.70	122.75	119.90
26	BB	2751	G	C5-C6-N1	5.70	114.35	111.50
30	BF	197	GLU	OE1-CD-OE2	5.70	130.14	123.30
1	AA	133	U	C6-N1-C2	-5.70	117.58	121.00
1	AA	202	G	C5'-C4'-O4'	5.70	115.94	109.10
1	AA	416	G	C5-C6-O6	-5.70	125.18	128.60
1	AA	619	U	N1-C2-N3	5.70	118.32	114.90
1	AA	721	G	C2-N3-C4	-5.70	109.05	111.90
1	AA	888	G	N1-C6-O6	-5.70	116.48	119.90
1	AA	1014	A	C5-N7-C8	-5.70	101.05	103.90
1	AA	1175	G	C4-C5-C6	5.70	122.22	118.80
25	BA	20	G	N3-C4-N9	-5.70	122.58	126.00
26	BB	110	G	C2-N3-C4	5.70	114.75	111.90
26	BB	119	A	P-O3'-C3'	5.70	126.54	119.70
26	BB	480	A	C6-N1-C2	5.70	122.02	118.60
26	BB	558	U	C2-N1-C1'	-5.70	110.86	117.70
26	BB	1062	G	N1-C2-N3	-5.70	120.48	123.90
26	BB	1171	G	N1-C6-O6	5.70	123.32	119.90
26	BB	1727	C	N3-C4-C5	-5.70	119.62	121.90
26	BB	1959	G	N3-C2-N2	5.70	123.89	119.90
1	AA	262	A	O4'-C4'-C3'	5.70	110.66	106.10
1	AA	554	A	C1'-O4'-C4'	5.70	114.46	109.90
1	AA	878	A	N1-C6-N6	5.70	122.02	118.60
1	AA	1005	A	O4'-C1'-N9	5.70	112.76	108.20
1	AA	1046	A	C5'-C4'-C3'	-5.70	106.88	116.00
1	AA	1228	C	O4'-C1'-N1	5.70	112.76	108.20
1	AA	1323	G	C5-N7-C8	-5.70	101.45	104.30
1	AA	1423	G	C3'-C2'-C1'	-5.70	96.94	101.50
2	AB	65	C	P-O3'-C3'	5.70	126.54	119.70
26	BB	918	A	C6-N1-C2	5.70	122.02	118.60
26	BB	944	C	C2-N1-C1'	-5.70	112.53	118.80
26	BB	1232	G	C5-N7-C8	-5.70	101.45	104.30
26	BB	1398	C	N1-C2-O2	5.70	122.32	118.90
26	BB	1651	G	C5'-C4'-O4'	5.70	115.94	109.10
26	BB	1820	U	N3-C2-O2	-5.70	118.21	122.20
26	BB	2317	A	O4'-C1'-N9	5.70	112.76	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2399	G	N1-C6-O6	-5.70	116.48	119.90
26	BB	2479	U	P-O3'-C3'	5.70	126.54	119.70
26	BB	2666	C	C5-C6-N1	-5.70	118.15	121.00
26	BB	2869	G	C4-C5-C6	5.70	122.22	118.80
46	BV	84	TYR	CB-CG-CD1	5.70	124.42	121.00
1	AA	705	G	N3-C4-C5	-5.70	125.75	128.60
1	AA	1330	U	C5-C6-N1	5.70	125.55	122.70
2	AB	13	C	C1'-O4'-C4'	5.70	114.46	109.90
4	AD	10	G	O4'-C1'-N9	5.70	112.76	108.20
12	AL	126	PHE	CB-CG-CD2	5.70	124.79	120.80
26	BB	20	C	C3'-C2'-C1'	-5.70	96.94	101.50
26	BB	1996	C	OP1-P-O3'	5.70	117.73	105.20
1	AA	494	G	N9-C4-C5	-5.70	103.12	105.40
1	AA	749	A	C4'-C3'-C2'	-5.70	96.91	102.60
1	AA	1274	A	C2-N3-C4	5.70	113.45	110.60
26	BB	304	U	C5'-C4'-C3'	-5.70	106.89	116.00
26	BB	317	G	C4-C5-N7	5.70	113.08	110.80
26	BB	639	U	C5-C6-N1	-5.70	119.85	122.70
26	BB	907	G	O4'-C1'-N9	5.70	112.76	108.20
26	BB	1074	G	C5-C6-O6	-5.70	125.18	128.60
26	BB	1458	U	N1-C2-N3	5.70	118.32	114.90
26	BB	1576	U	C6-N1-C2	-5.70	117.58	121.00
26	BB	1585	C	C2-N3-C4	-5.70	117.05	119.90
26	BB	1620	G	O3'-P-O5'	-5.70	93.18	104.00
26	BB	1624	U	N1-C2-O2	5.70	126.79	122.80
26	BB	1736	U	C5-C6-N1	-5.70	119.85	122.70
26	BB	2004	G	N3-C2-N2	5.70	123.89	119.90
26	BB	2669	G	C4'-C3'-O3'	5.70	124.39	113.00
1	AA	150	U	C3'-C2'-C1'	5.69	106.06	101.50
26	BB	1076	C	C4-C5-C6	5.69	120.25	117.40
26	BB	2105	U	O3'-P-O5'	-5.69	93.18	104.00
26	BB	2321	U	N1-C2-O2	5.69	126.79	122.80
39	BO	103	TYR	CD1-CG-CD2	5.69	124.16	117.90
1	AA	834	U	C2-N3-C4	-5.69	123.58	127.00
1	AA	1053	G	C5-C6-O6	-5.69	125.19	128.60
21	AU	11	ARG	NE-CZ-NH2	-5.69	117.45	120.30
25	BA	96	G	C4'-C3'-C2'	-5.69	96.91	102.60
26	BB	63	A	N9-C4-C5	5.69	108.08	105.80
26	BB	187	G	C4'-C3'-C2'	-5.69	96.91	102.60
26	BB	326	G	C4-C5-C6	-5.69	115.38	118.80
26	BB	761	A	O4'-C4'-C3'	-5.69	98.31	104.00
26	BB	1927	A	C2-N3-C4	5.69	113.45	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1930	G	C5-C6-O6	-5.69	125.19	128.60
26	BB	2215	C	C1'-O4'-C4'	-5.69	105.35	109.90
26	BB	2391	G	C4-C5-C6	5.69	122.22	118.80
26	BB	2606	C	P-O5'-C5'	5.69	130.01	120.90
31	BG	135	ILE	C-N-CA	5.69	135.93	121.70
1	AA	20	U	O4'-C1'-N1	5.69	112.75	108.20
1	AA	389	A	C2-N3-C4	5.69	113.45	110.60
1	AA	724	G	C4-C5-N7	5.69	113.08	110.80
1	AA	754	C	C3'-C2'-C1'	5.69	106.05	101.50
1	AA	1482	G	C2-N3-C4	5.69	114.75	111.90
4	AD	54	G	C6-N1-C2	-5.69	121.69	125.10
26	BB	6	A	C2-N3-C4	5.69	113.44	110.60
26	BB	182	A	O4'-C1'-N9	5.69	112.75	108.20
26	BB	311	A	O4'-C1'-C2'	-5.69	100.11	105.80
26	BB	1064	C	O4'-C1'-N1	5.69	112.75	108.20
26	BB	1733	G	N1-C2-N3	5.69	127.31	123.90
26	BB	1803	A	C5-C6-N6	-5.69	119.15	123.70
26	BB	2002	G	C2-N3-C4	5.69	114.75	111.90
26	BB	2002	G	C8-N9-C1'	5.69	134.40	127.00
26	BB	2295	C	N3-C2-O2	-5.69	117.92	121.90
26	BB	2470	G	C6-N1-C2	5.69	128.51	125.10
26	BB	2603	G	C6-N1-C2	-5.69	121.69	125.10
47	BW	96	LYS	C-N-CA	5.69	135.93	121.70
1	AA	167	A	C4-C5-N7	5.69	113.54	110.70
1	AA	1164	G	N1-C2-N3	-5.69	120.49	123.90
4	AD	73	A	C5'-C4'-O4'	5.69	115.93	109.10
26	BB	678	C	O4'-C1'-N1	5.69	112.75	108.20
26	BB	1672	A	C5-N7-C8	5.69	106.75	103.90
26	BB	1828	G	N3-C4-N9	5.69	129.41	126.00
26	BB	2623	G	N3-C4-C5	-5.69	125.76	128.60
26	BB	2808	G	C3'-C2'-C1'	-5.69	96.95	101.50
1	AA	240	G	N9-C1'-C2'	-5.69	105.74	112.00
1	AA	248	C	C4-C5-C6	5.69	120.24	117.40
1	AA	867	G	N1-C6-O6	5.69	123.31	119.90
1	AA	937	A	O4'-C1'-N9	5.69	112.75	108.20
1	AA	1024	G	C2-N3-C4	5.69	114.74	111.90
1	AA	1441	A	C5-N7-C8	-5.69	101.06	103.90
4	AD	54	G	O4'-C1'-N9	5.69	112.75	108.20
26	BB	38	A	O4'-C1'-N9	5.69	112.75	108.20
26	BB	471	A	N1-C6-N6	-5.69	115.19	118.60
26	BB	552	U	C5-C6-N1	5.69	125.54	122.70
26	BB	591	U	C4-C5-C6	5.69	123.11	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	728	G	C6-C5-N7	-5.69	126.99	130.40
26	BB	928	A	C4-C5-N7	-5.69	107.86	110.70
26	BB	1120	G	C3'-C2'-C1'	5.69	106.05	101.50
26	BB	1215	G	C4-C5-N7	5.69	113.08	110.80
26	BB	1821	A	C6-N1-C2	-5.69	115.19	118.60
26	BB	2304	G	C5-N7-C8	5.69	107.14	104.30
26	BB	2421	G	C8-N9-C4	-5.69	104.12	106.40
26	BB	2548	U	N1-C2-N3	5.69	118.31	114.90
26	BB	2762	C	O4'-C1'-N1	5.69	112.75	108.20
1	AA	113	G	O4'-C1'-N9	5.69	112.75	108.20
1	AA	497	G	N3-C4-C5	-5.69	125.76	128.60
26	BB	1071	G	N3-C4-C5	-5.69	125.76	128.60
26	BB	1964	G	C6-N1-C2	5.69	128.51	125.10
26	BB	2392	A	C3'-C2'-C1'	-5.69	96.95	101.50
26	BB	2708	G	C8-N9-C1'	5.69	134.39	127.00
26	BB	2761	A	C1'-O4'-C4'	-5.69	105.35	109.90
26	BB	2890	G	C3'-C2'-C1'	5.69	106.05	101.50
2	AB	51	G	C5-C6-N1	5.68	114.34	111.50
4	AD	23	G	C4-C5-C6	5.68	122.21	118.80
25	BA	36	C	C2'-C3'-O3'	5.68	122.80	113.70
26	BB	208	C	C5-C6-N1	5.68	123.84	121.00
26	BB	623	C	P-O3'-C3'	5.68	126.52	119.70
26	BB	1172	C	O4'-C1'-N1	5.68	112.75	108.20
26	BB	1511	G	N9-C1'-C2'	-5.68	105.75	112.00
26	BB	1590	A	C5-C6-N1	5.68	120.54	117.70
26	BB	2727	A	C5-N7-C8	5.68	106.74	103.90
26	BB	2753	A	C5-N7-C8	5.68	106.74	103.90
27	BC	179	ASP	CB-CG-OD2	5.68	123.42	118.30
1	AA	488	C	N1-C2-N3	5.68	123.18	119.20
4	AD	59	A	C3'-C2'-C1'	5.68	106.05	101.50
26	BB	153	U	O4'-C1'-N1	5.68	112.75	108.20
26	BB	221	A	C5'-C4'-O4'	5.68	115.92	109.10
26	BB	364	C	C5'-C4'-O4'	5.68	115.92	109.10
26	BB	400	G	N3-C4-C5	-5.68	125.76	128.60
26	BB	411	G	C4-N9-C1'	-5.68	119.11	126.50
26	BB	466	A	N1-C2-N3	-5.68	126.46	129.30
26	BB	742	A	N9-C4-C5	-5.68	103.53	105.80
26	BB	931	U	O3'-P-O5'	-5.68	93.20	104.00
26	BB	1597	A	N7-C8-N9	-5.68	110.96	113.80
26	BB	1626	A	C5'-C4'-O4'	-5.68	102.28	109.10
26	BB	1742	U	O4'-C4'-C3'	5.68	110.65	106.10
26	BB	1812	U	C2-N3-C4	-5.68	123.59	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2557	G	C8-N9-C4	-5.68	104.13	106.40
26	BB	2613	U	C5-C6-N1	5.68	125.54	122.70
1	AA	553	A	O4'-C1'-N9	5.68	112.75	108.20
1	AA	669	G	N3-C4-C5	-5.68	125.76	128.60
26	BB	572	A	C5-C6-N1	5.68	120.54	117.70
26	BB	1293	C	C5'-C4'-O4'	5.68	115.92	109.10
26	BB	1556	C	C4-C5-C6	-5.68	114.56	117.40
26	BB	1675	C	C4-C5-C6	-5.68	114.56	117.40
26	BB	2007	U	N3-C2-O2	-5.68	118.22	122.20
26	BB	2530	A	C4-C5-C6	-5.68	114.16	117.00
34	BJ	124	ARG	CD-NE-CZ	5.68	131.55	123.60
1	AA	26	A	C4-C5-N7	5.68	113.54	110.70
1	AA	349	A	O4'-C4'-C3'	5.68	110.64	106.10
1	AA	554	A	N9-C4-C5	-5.68	103.53	105.80
1	AA	571	U	C4-C5-C6	5.68	123.11	119.70
1	AA	573	A	C5'-C4'-C3'	-5.68	106.91	116.00
1	AA	1115	U	O4'-C4'-C3'	5.68	110.64	106.10
1	AA	1404	C	C5-C6-N1	5.68	123.84	121.00
19	AS	82	ALA	CB-CA-C	5.68	118.62	110.10
25	BA	85	G	N3-C2-N2	-5.68	115.92	119.90
26	BB	75	G	C5'-C4'-O4'	5.68	115.92	109.10
26	BB	174	U	O4'-C1'-N1	5.68	112.74	108.20
26	BB	1163	G	C4'-C3'-C2'	-5.68	96.92	102.60
26	BB	1872	A	C1'-O4'-C4'	-5.68	105.36	109.90
26	BB	2002	G	N9-C1'-C2'	-5.68	105.75	112.00
26	BB	2023	C	N3-C4-C5	-5.68	119.63	121.90
1	AA	962	C	C5-C4-N4	-5.68	116.22	120.20
26	BB	196	A	O4'-C1'-N9	5.68	112.74	108.20
26	BB	2127	G	N3-C4-N9	5.68	129.41	126.00
26	BB	2201	G	C6-C5-N7	5.68	133.81	130.40
26	BB	2366	A	C5-C6-N6	-5.68	119.16	123.70
26	BB	2778	A	C1'-O4'-C4'	5.68	114.44	109.90
26	BB	2823	A	N3-C4-C5	-5.68	122.83	126.80
1	AA	199	A	O4'-C1'-N9	5.68	112.74	108.20
1	AA	434	U	C5'-C4'-O4'	5.68	115.91	109.10
1	AA	640	A	C4-C5-N7	-5.68	107.86	110.70
1	AA	849	G	C2-N3-C4	5.68	114.74	111.90
1	AA	915	A	C5'-C4'-O4'	5.68	115.91	109.10
1	AA	937	A	C6-N1-C2	-5.68	115.19	118.60
1	AA	974	A	C5-C6-N6	5.68	128.24	123.70
1	AA	1199	U	N1-C2-O2	5.68	126.77	122.80
2	AB	18	G	N9-C4-C5	-5.68	103.13	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	AG	164	ARG	CD-NE-CZ	5.68	131.55	123.60
26	BB	9	G	N3-C4-N9	-5.68	122.59	126.00
26	BB	558	U	C5-C4-O4	5.68	129.31	125.90
26	BB	621	A	C3'-C2'-C1'	-5.68	96.96	101.50
26	BB	673	C	C6-N1-C2	-5.68	118.03	120.30
26	BB	1103	A	N1-C2-N3	-5.68	126.46	129.30
26	BB	1205	A	C6-C5-N7	5.68	136.27	132.30
26	BB	1224	U	O5'-P-OP1	-5.68	100.59	105.70
26	BB	1304	A	C3'-C2'-C1'	-5.68	96.96	101.50
26	BB	1381	G	N9-C1'-C2'	-5.68	105.76	112.00
26	BB	1501	G	C5-C6-N1	5.68	114.34	111.50
26	BB	1654	A	C1'-O4'-C4'	-5.68	105.36	109.90
26	BB	2344	U	C5-C4-O4	5.68	129.31	125.90
26	BB	2360	G	N9-C1'-C2'	-5.68	105.76	112.00
26	BB	2642	G	O4'-C1'-N9	5.68	112.74	108.20
26	BB	2671	G	C6-C5-N7	-5.68	126.99	130.40
26	BB	2752	C	N3-C4-C5	5.68	124.17	121.90
1	AA	114	U	N1-C2-O2	5.67	126.77	122.80
1	AA	169	C	P-O3'-C3'	5.67	126.51	119.70
1	AA	632	U	N3-C4-C5	5.67	118.00	114.60
1	AA	941	G	C8-N9-C4	-5.67	104.13	106.40
1	AA	1123	U	O4'-C4'-C3'	5.67	110.64	106.10
1	AA	1126	U	C4-C5-C6	-5.67	116.30	119.70
4	AD	50	G	P-O3'-C3'	5.67	126.51	119.70
5	AE	24	PRO	N-CA-CB	5.67	110.11	103.30
25	BA	55	U	C5'-C4'-O4'	5.67	115.91	109.10
26	BB	72	U	N3-C2-O2	-5.67	118.23	122.20
26	BB	581	C	C4'-C3'-C2'	-5.67	96.93	102.60
26	BB	1217	U	N3-C4-C5	-5.67	111.20	114.60
26	BB	1738	G	C6-C5-N7	-5.67	127.00	130.40
26	BB	1866	A	N9-C4-C5	5.67	108.07	105.80
26	BB	1953	A	N9-C4-C5	5.67	108.07	105.80
26	BB	2118	U	C1'-O4'-C4'	5.67	114.44	109.90
26	BB	2239	G	N1-C2-N3	-5.67	120.50	123.90
26	BB	2609	U	C3'-C2'-C1'	5.67	106.04	101.50
26	BB	2649	C	P-O3'-C3'	5.67	126.51	119.70
26	BB	2832	U	C3'-C2'-C1'	5.67	106.04	101.50
1	AA	1091	U	C6-N1-C2	5.67	124.40	121.00
1	AA	1401	G	C5-C6-O6	-5.67	125.20	128.60
3	AC	28	U	C4-C5-C6	5.67	123.10	119.70
26	BB	713	G	C4'-C3'-C2'	5.67	108.27	102.60
26	BB	2483	C	O3'-P-O5'	-5.67	93.22	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	31	G	N1-C6-O6	5.67	123.30	119.90
1	AA	261	U	C5-C4-O4	5.67	129.30	125.90
1	AA	726	C	C5-C4-N4	-5.67	116.23	120.20
6	AF	200	TRP	CA-CB-CG	5.67	124.48	113.70
25	BA	56	G	C4-C5-C6	5.67	122.20	118.80
26	BB	3	U	C2-N3-C4	-5.67	123.60	127.00
26	BB	36	G	C5-C6-O6	-5.67	125.20	128.60
26	BB	242	G	C8-N9-C4	-5.67	104.13	106.40
26	BB	274	C	N1-C2-O2	5.67	122.30	118.90
26	BB	627	A	O4'-C1'-C2'	5.67	112.70	107.60
26	BB	1112	G	C3'-C2'-C1'	-5.67	96.96	101.50
26	BB	1703	G	N3-C2-N2	5.67	123.87	119.90
26	BB	2054	A	C1'-O4'-C4'	-5.67	105.36	109.90
26	BB	2366	A	C5'-C4'-O4'	-5.67	102.29	109.10
26	BB	2640	G	C8-N9-C4	-5.67	104.13	106.40
30	BF	77	ILE	CA-CB-CG1	5.67	121.78	111.00
1	AA	576	C	C5'-C4'-C3'	-5.67	106.93	116.00
1	AA	719	C	O5'-P-OP2	-5.67	100.60	105.70
25	BA	53	A	C5-C6-N1	5.67	120.53	117.70
26	BB	203	A	C2-N3-C4	5.67	113.44	110.60
26	BB	982	C	C5-C6-N1	5.67	123.83	121.00
26	BB	1319	C	N3-C2-O2	-5.67	117.93	121.90
26	BB	1615	C	C6-N1-C2	5.67	122.57	120.30
26	BB	2232	C	C5'-C4'-C3'	-5.67	106.93	116.00
26	BB	2363	G	N1-C2-N2	5.67	121.30	116.20
28	BD	64	VAL	CA-CB-CG1	5.67	119.41	110.90
1	AA	259	G	C4-C5-C6	5.67	122.20	118.80
1	AA	326	G	P-O5'-C5'	5.67	129.97	120.90
1	AA	497	G	N3-C4-N9	5.67	129.40	126.00
1	AA	683	G	N3-C4-C5	-5.67	125.77	128.60
1	AA	700	G	C3'-C2'-C1'	-5.67	96.97	101.50
1	AA	729	A	P-O3'-C3'	5.67	126.50	119.70
1	AA	803	G	N9-C1'-C2'	-5.67	105.76	112.00
1	AA	929	G	N9-C1'-C2'	-5.67	105.76	112.00
20	AT	80	LYS	C-N-CA	5.67	135.87	121.70
25	BA	84	G	C2'-C3'-O3'	5.67	122.77	113.70
25	BA	106	G	C4-C5-N7	-5.67	108.53	110.80
26	BB	18	U	N1-C2-O2	5.67	126.77	122.80
26	BB	91	A	O4'-C1'-N9	5.67	112.73	108.20
26	BB	215	G	C4-N9-C1'	-5.67	119.13	126.50
26	BB	600	G	N3-C4-C5	-5.67	125.77	128.60
26	BB	860	U	N1-C2-N3	-5.67	111.50	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1098	A	N3-C4-C5	-5.67	122.83	126.80
26	BB	1225	G	O4'-C1'-N9	5.67	112.73	108.20
26	BB	2020	A	N3-C4-C5	-5.67	122.83	126.80
26	BB	2400	G	C5-N7-C8	-5.67	101.47	104.30
26	BB	2625	G	C4-C5-C6	5.67	122.20	118.80
26	BB	2747	G	N3-C4-N9	5.67	129.40	126.00
44	BT	58	VAL	CA-CB-CG1	5.67	119.40	110.90
1	AA	563	A	C4-C5-C6	-5.67	114.17	117.00
1	AA	1003	G	C5-C6-N1	5.67	114.33	111.50
25	BA	51	G	N1-C2-N2	5.67	121.30	116.20
25	BA	57	A	C5-N7-C8	5.67	106.73	103.90
26	BB	692	C	C4-C5-C6	5.67	120.23	117.40
26	BB	701	G	N7-C8-N9	-5.67	110.27	113.10
26	BB	916	G	C5'-C4'-C3'	-5.67	106.94	116.00
26	BB	1084	A	P-O3'-C3'	5.67	126.50	119.70
26	BB	1169	A	O4'-C1'-N9	5.67	112.73	108.20
26	BB	1452	G	O4'-C1'-N9	5.67	112.73	108.20
26	BB	1822	C	O5'-P-OP1	-5.67	100.60	105.70
26	BB	2341	G	C4-C5-N7	-5.67	108.53	110.80
26	BB	2557	G	O4'-C4'-C3'	5.67	110.63	106.10
26	BB	2886	A	O4'-C4'-C3'	5.67	110.63	106.10
1	AA	461	A	N1-C2-N3	-5.67	126.47	129.30
1	AA	703	G	N9-C4-C5	-5.67	103.13	105.40
1	AA	1053	G	P-O3'-C3'	5.67	126.50	119.70
1	AA	1418	A	C5'-C4'-O4'	5.67	115.90	109.10
26	BB	127	A	C1'-O4'-C4'	-5.67	105.37	109.90
26	BB	1012	U	N1-C1'-C2'	5.67	121.36	114.00
26	BB	1493	C	C6-N1-C2	-5.67	118.03	120.30
26	BB	2295	C	C4'-C3'-C2'	-5.67	96.94	102.60
26	BB	2537	U	N1-C1'-C2'	-5.67	105.77	112.00
26	BB	2581	G	C8-N9-C4	5.67	108.67	106.40
26	BB	2823	A	C5-N7-C8	-5.67	101.07	103.90
42	BR	78	PRO	N-CA-CB	5.67	110.10	103.30
1	AA	1045	C	C1'-O4'-C4'	5.66	114.43	109.90
1	AA	1118	U	C5'-C4'-C3'	-5.66	106.94	116.00
1	AA	1515	G	N1-C2-N3	-5.66	120.50	123.90
4	AD	16	C	C3'-C2'-C1'	5.66	106.03	101.50
15	AO	63	THR	CA-CB-OG1	5.66	120.89	109.00
25	BA	32	U	C2-N3-C4	-5.66	123.60	127.00
26	BB	525	U	C2-N3-C4	5.66	130.40	127.00
26	BB	776	G	C5'-C4'-O4'	5.66	115.90	109.10
26	BB	1637	A	C5-N7-C8	-5.66	101.07	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1846	G	C4-C5-C6	5.66	122.20	118.80
26	BB	1862	G	C6-C5-N7	-5.66	127.00	130.40
26	BB	2249	U	C5-C4-O4	5.66	129.30	125.90
45	BU	60	HIS	CA-CB-CG	5.66	123.23	113.60
1	AA	1108	G	P-O5'-C5'	-5.66	111.84	120.90
1	AA	1447	A	C5'-C4'-C3'	-5.66	106.94	116.00
2	AB	23	A	N1-C6-N6	5.66	122.00	118.60
26	BB	1192	G	N3-C4-N9	-5.66	122.60	126.00
26	BB	2297	A	N9-C1'-C2'	-5.66	105.77	112.00
1	AA	452	A	C5-N7-C8	-5.66	101.07	103.90
1	AA	596	A	N1-C6-N6	5.66	122.00	118.60
1	AA	1491	G	N3-C4-N9	5.66	129.40	126.00
10	AJ	71	THR	O-C-N	5.66	131.76	122.70
26	BB	552	U	C4'-C3'-C2'	-5.66	96.94	102.60
26	BB	853	C	N3-C4-C5	-5.66	119.64	121.90
26	BB	1774	C	C4-C5-C6	-5.66	114.57	117.40
26	BB	1904	G	O5'-C5'-C4'	5.66	122.45	111.70
26	BB	1922	G	C8-N9-C4	-5.66	104.14	106.40
26	BB	2252	G	N9-C1'-C2'	-5.66	105.77	112.00
26	BB	2292	U	N1-C2-O2	5.66	126.76	122.80
44	BT	13	ARG	NE-CZ-NH1	5.66	123.13	120.30
1	AA	52	C	N3-C4-C5	5.66	124.16	121.90
1	AA	177	G	N3-C4-C5	-5.66	125.77	128.60
1	AA	466	A	C5-C6-N1	-5.66	114.87	117.70
1	AA	497	G	C4-C5-N7	-5.66	108.54	110.80
1	AA	1537	U	N3-C4-O4	5.66	123.36	119.40
6	AF	178	ARG	NE-CZ-NH2	5.66	123.13	120.30
26	BB	582	A	C3'-C2'-C1'	5.66	106.03	101.50
26	BB	625	G	N3-C4-C5	-5.66	125.77	128.60
26	BB	739	A	C5'-C4'-O4'	-5.66	102.31	109.10
26	BB	938	G	C2-N3-C4	5.66	114.73	111.90
26	BB	954	G	N3-C4-C5	-5.66	125.77	128.60
26	BB	1250	G	C4-C5-C6	5.66	122.19	118.80
26	BB	1553	A	C1'-O4'-C4'	-5.66	105.37	109.90
26	BB	1599	U	N1-C2-O2	5.66	126.76	122.80
26	BB	2108	A	N3-C4-N9	5.66	131.93	127.40
26	BB	2604	U	N1-C1'-C2'	-5.66	105.78	112.00
26	BB	2857	G	N3-C4-C5	-5.66	125.77	128.60
1	AA	422	C	C2-N1-C1'	5.66	125.02	118.80
1	AA	508	U	C3'-C2'-C1'	5.66	106.03	101.50
1	AA	902	G	N3-C2-N2	5.66	123.86	119.90
1	AA	938	A	N7-C8-N9	-5.66	110.97	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1097	C	O4'-C1'-N1	5.66	112.73	108.20
2	AB	45	U	N1-C2-N3	5.66	118.29	114.90
26	BB	151	C	C4'-C3'-C2'	-5.66	96.94	102.60
26	BB	1856	U	N1-C2-N3	5.66	118.29	114.90
26	BB	2640	G	N1-C6-O6	-5.66	116.51	119.90
26	BB	2895	G	C5'-C4'-O4'	5.66	115.89	109.10
1	AA	19	A	C4-C5-N7	5.66	113.53	110.70
1	AA	272	C	N3-C2-O2	-5.66	117.94	121.90
1	AA	1053	G	N3-C4-N9	5.66	129.39	126.00
1	AA	1150	A	C5'-C4'-C3'	-5.66	106.95	116.00
1	AA	1165	U	N3-C4-O4	5.66	123.36	119.40
26	BB	59	U	C5-C4-O4	5.66	129.29	125.90
26	BB	240	C	N3-C4-N4	5.66	121.96	118.00
26	BB	799	G	N1-C2-N2	5.66	121.29	116.20
26	BB	850	U	P-O3'-C3'	5.66	126.49	119.70
26	BB	966	G	C4-N9-C1'	5.66	133.85	126.50
26	BB	1619	G	N7-C8-N9	5.66	115.93	113.10
26	BB	1794	A	C8-N9-C4	-5.66	103.54	105.80
26	BB	1822	C	C5-C4-N4	-5.66	116.24	120.20
26	BB	2133	G	N9-C4-C5	5.66	107.66	105.40
26	BB	2410	G	O4'-C1'-N9	5.66	112.72	108.20
26	BB	2578	G	C4-C5-C6	5.66	122.19	118.80
26	BB	2670	A	C5'-C4'-O4'	5.66	115.89	109.10
26	BB	2732	G	P-O5'-C5'	5.66	129.95	120.90
1	AA	295	C	C4'-C3'-C2'	-5.65	96.95	102.60
1	AA	320	A	N1-C6-N6	-5.65	115.21	118.60
1	AA	378	G	C5-C6-O6	5.65	131.99	128.60
1	AA	403	C	O4'-C1'-N1	5.65	112.72	108.20
1	AA	928	G	C3'-C2'-C1'	5.65	106.02	101.50
26	BB	1613	G	C4-C5-C6	5.65	122.19	118.80
54	B3	29	VAL	N-CA-CB	-5.65	99.06	111.50
1	AA	601	G	N1-C2-N3	-5.65	120.51	123.90
2	AB	10	G	C2-N3-C4	5.65	114.73	111.90
2	AB	47	U	C6-N1-C1'	-5.65	113.28	121.20
13	AM	62	ARG	NE-CZ-NH2	-5.65	117.47	120.30
25	BA	81	G	N1-C2-N3	-5.65	120.51	123.90
26	BB	673	C	C5-C6-N1	5.65	123.83	121.00
26	BB	718	A	C6-C5-N7	5.65	136.26	132.30
26	BB	1668	A	C2-N3-C4	5.65	113.43	110.60
26	BB	1706	C	C6-N1-C2	-5.65	118.04	120.30
26	BB	1788	C	N3-C4-C5	-5.65	119.64	121.90
26	BB	2261	C	N1-C2-O2	5.65	122.29	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2268	A	C5'-C4'-C3'	-5.65	106.95	116.00
26	BB	2365	G	C4-C5-C6	5.65	122.19	118.80
26	BB	2629	U	C2-N3-C4	-5.65	123.61	127.00
26	BB	2732	G	N1-C2-N2	-5.65	111.11	116.20
1	AA	648	A	C5-N7-C8	5.65	106.72	103.90
1	AA	1261	A	N3-C4-N9	5.65	131.92	127.40
1	AA	1330	U	C5-C4-O4	5.65	129.29	125.90
1	AA	1345	U	C4-C5-C6	-5.65	116.31	119.70
1	AA	1353	G	N1-C2-N3	5.65	127.29	123.90
4	AD	32	G	C5-C6-O6	-5.65	125.21	128.60
8	AH	56	PRO	CA-N-CD	-5.65	103.59	111.50
26	BB	88	G	C5-C6-N1	5.65	114.33	111.50
26	BB	297	G	C5-N7-C8	5.65	107.13	104.30
26	BB	304	U	C1'-O4'-C4'	-5.65	105.38	109.90
26	BB	361	G	O4'-C1'-N9	-5.65	103.68	108.20
26	BB	499	U	C6-N1-C2	-5.65	117.61	121.00
26	BB	909	A	C5-N7-C8	5.65	106.72	103.90
26	BB	1088	A	N7-C8-N9	5.65	116.62	113.80
26	BB	1304	A	C4-C5-N7	-5.65	107.88	110.70
26	BB	1444	G	N1-C6-O6	5.65	123.29	119.90
26	BB	1521	G	N9-C4-C5	-5.65	103.14	105.40
26	BB	1930	G	N1-C2-N2	5.65	121.29	116.20
26	BB	2307	G	C3'-C2'-C1'	5.65	106.02	101.50
1	AA	492	C	O3'-P-O5'	5.65	114.73	104.00
1	AA	1101	A	N3-C4-C5	-5.65	122.85	126.80
1	AA	1447	A	N9-C4-C5	5.65	108.06	105.80
26	BB	254	G	N3-C2-N2	-5.65	115.94	119.90
26	BB	779	U	C5'-C4'-O4'	-5.65	102.32	109.10
26	BB	802	A	N1-C2-N3	5.65	132.12	129.30
26	BB	1008	A	N9-C4-C5	5.65	108.06	105.80
26	BB	1243	C	C3'-C2'-C1'	-5.65	96.98	101.50
26	BB	1351	C	C1'-O4'-C4'	-5.65	105.38	109.90
26	BB	1436	G	N1-C2-N2	5.65	121.28	116.20
26	BB	1993	U	O4'-C1'-N1	5.65	112.72	108.20
26	BB	2660	A	N9-C1'-C2'	-5.65	105.79	112.00
1	AA	240	G	C1'-O4'-C4'	5.65	114.42	109.90
1	AA	864	A	N3-C4-C5	-5.65	122.85	126.80
1	AA	881	G	N9-C1'-C2'	-5.65	105.79	112.00
1	AA	1079	G	N3-C4-N9	5.65	129.39	126.00
26	BB	334	C	N3-C2-O2	-5.65	117.95	121.90
26	BB	726	G	N1-C2-N2	5.65	121.28	116.20
26	BB	1080	A	C2-N3-C4	5.65	113.42	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1124	G	N1-C6-O6	-5.65	116.51	119.90
26	BB	1258	U	N1-C1'-C2'	-5.65	105.79	112.00
26	BB	1405	U	C1'-O4'-C4'	-5.65	105.38	109.90
26	BB	1659	G	C5-C6-N1	5.65	114.32	111.50
26	BB	1899	A	C4'-C3'-C2'	-5.65	96.95	102.60
26	BB	2270	A	P-O5'-C5'	5.65	129.94	120.90
26	BB	2378	A	C5-C6-N1	5.65	120.52	117.70
26	BB	2524	G	N1-C2-N3	-5.65	120.51	123.90
26	BB	2529	G	N7-C8-N9	5.65	115.92	113.10
26	BB	2565	A	N1-C6-N6	5.65	121.99	118.60
1	AA	788	U	C5-C4-O4	-5.65	122.51	125.90
26	BB	577	G	C6-C5-N7	-5.65	127.01	130.40
26	BB	643	A	N3-C4-N9	-5.65	122.88	127.40
26	BB	734	A	N9-C4-C5	5.65	108.06	105.80
26	BB	832	U	C4-C5-C6	5.65	123.09	119.70
26	BB	1121	C	C2-N3-C4	-5.65	117.08	119.90
26	BB	2026	U	C4-C5-C6	5.65	123.09	119.70
1	AA	600	A	O4'-C4'-C3'	5.64	110.62	106.10
1	AA	759	A	C4-C5-C6	5.64	119.82	117.00
1	AA	771	G	C1'-O4'-C4'	-5.64	105.38	109.90
1	AA	944	G	N7-C8-N9	-5.64	110.28	113.10
1	AA	1138	G	C2-N3-C4	5.64	114.72	111.90
4	AD	51	U	C4-C5-C6	-5.64	116.31	119.70
4	AD	53	G	O4'-C1'-N9	5.64	112.72	108.20
19	AS	8	ARG	NE-CZ-NH2	-5.64	117.48	120.30
25	BA	102	G	O4'-C1'-N9	5.64	112.72	108.20
26	BB	182	A	N7-C8-N9	5.64	116.62	113.80
26	BB	339	U	C4-C5-C6	5.64	123.09	119.70
26	BB	386	G	C4-C5-N7	-5.64	108.54	110.80
26	BB	537	G	C4-C5-C6	5.64	122.19	118.80
26	BB	742	A	C4-C5-C6	-5.64	114.18	117.00
26	BB	915	C	C4-C5-C6	-5.64	114.58	117.40
26	BB	995	C	C6-N1-C1'	-5.64	114.03	120.80
26	BB	1189	A	C2-N3-C4	-5.64	107.78	110.60
26	BB	1796	U	C5-C6-N1	-5.64	119.88	122.70
26	BB	1877	A	C5-C6-N1	-5.64	114.88	117.70
26	BB	1885	A	C2-N3-C4	5.64	113.42	110.60
26	BB	1934	C	C6-N1-C2	5.64	122.56	120.30
26	BB	2027	G	C6-N1-C2	-5.64	121.71	125.10
26	BB	2113	U	N1-C2-N3	5.64	118.29	114.90
26	BB	2232	C	C5-C4-N4	-5.64	116.25	120.20
26	BB	2372	U	C4-C5-C6	5.64	123.09	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2499	C	P-O3'-C3'	5.64	126.47	119.70
26	BB	2570	G	C2'-C3'-O3'	5.64	122.73	113.70
26	BB	2786	U	C4-C5-C6	5.64	123.09	119.70
1	AA	18	C	P-O3'-C3'	5.64	126.47	119.70
1	AA	246	A	C6-N1-C2	5.64	121.99	118.60
1	AA	681	A	N1-C2-N3	-5.64	126.48	129.30
1	AA	728	A	N9-C4-C5	-5.64	103.54	105.80
1	AA	974	A	N9-C4-C5	5.64	108.06	105.80
4	AD	31	G	C6-N1-C2	5.64	128.49	125.10
12	AL	96	GLU	N-CA-CB	-5.64	100.44	110.60
20	AT	64	ARG	NE-CZ-NH2	-5.64	117.48	120.30
25	BA	25	U	O4'-C1'-N1	5.64	112.71	108.20
25	BA	89	U	C5-C4-O4	-5.64	122.52	125.90
25	BA	94	A	N7-C8-N9	5.64	116.62	113.80
26	BB	227	A	O4'-C1'-N9	5.64	112.71	108.20
26	BB	580	U	N3-C2-O2	-5.64	118.25	122.20
26	BB	899	A	C1'-O4'-C4'	5.64	114.41	109.90
26	BB	1082	U	O4'-C1'-C2'	5.64	112.68	107.60
26	BB	1200	C	N3-C2-O2	-5.64	117.95	121.90
26	BB	1385	A	C2-N3-C4	5.64	113.42	110.60
26	BB	1432	G	C5-C6-N1	5.64	114.32	111.50
26	BB	1847	A	O4'-C4'-C3'	-5.64	98.36	104.00
26	BB	1978	A	P-O3'-C3'	5.64	126.47	119.70
26	BB	2274	A	C4-C5-N7	-5.64	107.88	110.70
26	BB	2458	G	C4-N9-C1'	5.64	133.84	126.50
26	BB	2531	A	C2-N3-C4	5.64	113.42	110.60
26	BB	2534	A	N1-C2-N3	-5.64	126.48	129.30
26	BB	2789	C	P-O3'-C3'	5.64	126.47	119.70
1	AA	259	G	N3-C4-N9	5.64	129.38	126.00
1	AA	1019	A	C5-N7-C8	-5.64	101.08	103.90
14	AN	105	ARG	NE-CZ-NH1	5.64	123.12	120.30
26	BB	193	U	N3-C4-C5	-5.64	111.22	114.60
26	BB	2019	A	C3'-C2'-C1'	-5.64	96.99	101.50
47	BW	5	ARG	NH1-CZ-NH2	5.64	125.61	119.40
1	AA	443	C	N1-C2-O2	5.64	122.28	118.90
1	AA	596	A	O3'-P-O5'	-5.64	93.29	104.00
1	AA	697	U	O4'-C1'-N1	5.64	112.71	108.20
1	AA	801	U	O5'-C5'-C4'	5.64	122.41	111.70
1	AA	1336	C	N3-C2-O2	-5.64	117.95	121.90
26	BB	170	U	N3-C2-O2	-5.64	118.25	122.20
26	BB	630	G	N7-C8-N9	5.64	115.92	113.10
26	BB	979	A	C4-C5-N7	-5.64	107.88	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1681	G	N7-C8-N9	-5.64	110.28	113.10
26	BB	2247	A	N3-C4-C5	-5.64	122.85	126.80
26	BB	2618	G	OP2-P-O3'	5.64	117.61	105.20
26	BB	2651	C	P-O3'-C3'	5.64	126.47	119.70
26	BB	2798	U	C1'-O4'-C4'	5.64	114.41	109.90
26	BB	2871	U	C6-N1-C2	5.64	124.38	121.00
1	AA	234	C	O4'-C1'-N1	5.64	112.71	108.20
1	AA	880	C	C5-C6-N1	-5.64	118.18	121.00
1	AA	1134	G	P-O3'-C3'	5.64	126.47	119.70
1	AA	1241	G	C3'-C2'-C1'	-5.64	96.99	101.50
4	AD	48	U	C2-N3-C4	-5.64	123.62	127.00
26	BB	530	G	C5'-C4'-O4'	5.64	115.87	109.10
26	BB	1505	A	N1-C6-N6	-5.64	115.22	118.60
26	BB	2621	G	N9-C1'-C2'	-5.64	105.80	112.00
1	AA	346	G	C4'-C3'-C2'	-5.64	96.96	102.60
1	AA	1331	G	P-O3'-C3'	5.64	126.46	119.70
3	AC	54	U	C5-C4-O4	5.64	129.28	125.90
16	AP	89	ARG	NE-CZ-NH1	5.64	123.12	120.30
26	BB	170	U	C1'-O4'-C4'	-5.64	105.39	109.90
26	BB	283	G	C5-C6-O6	-5.64	125.22	128.60
26	BB	477	A	N1-C2-N3	-5.64	126.48	129.30
26	BB	704	G	C6-C5-N7	-5.64	127.02	130.40
26	BB	1513	U	O5'-P-OP2	-5.64	100.63	105.70
26	BB	1839	G	C5-C6-O6	-5.64	125.22	128.60
26	BB	2241	A	C4-C5-N7	-5.64	107.88	110.70
26	BB	2254	C	C5'-C4'-C3'	-5.64	106.98	116.00
26	BB	2281	A	C4-C5-C6	5.64	119.82	117.00
26	BB	2626	C	C3'-C2'-C1'	5.64	106.01	101.50
1	AA	94	G	N1-C6-O6	-5.63	116.52	119.90
1	AA	163	C	C2-N3-C4	5.63	122.72	119.90
1	AA	295	C	C5-C4-N4	-5.63	116.25	120.20
1	AA	615	G	N7-C8-N9	5.63	115.92	113.10
1	AA	630	A	C5-N7-C8	-5.63	101.08	103.90
1	AA	665	A	C1'-O4'-C4'	-5.63	105.39	109.90
1	AA	829	G	C4'-C3'-C2'	-5.63	96.97	102.60
1	AA	1093	A	C5'-C4'-O4'	5.63	115.86	109.10
1	AA	1105	A	O4'-C4'-C3'	5.63	110.61	106.10
26	BB	10	A	C4-C5-N7	-5.63	107.88	110.70
26	BB	821	A	P-O3'-C3'	5.63	126.46	119.70
26	BB	946	C	N3-C4-C5	5.63	124.15	121.90
26	BB	1518	C	C5'-C4'-C3'	-5.63	106.98	116.00
26	BB	2385	C	N3-C4-N4	5.63	121.94	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2536	G	N1-C2-N2	-5.63	111.13	116.20
26	BB	2758	A	C5'-C4'-O4'	5.63	115.86	109.10
40	BP	96	ARG	CD-NE-CZ	5.63	131.49	123.60
1	AA	231	U	C6-N1-C2	5.63	124.38	121.00
1	AA	1121	U	P-O3'-C3'	5.63	126.46	119.70
26	BB	266	G	O4'-C1'-N9	5.63	112.71	108.20
1	AA	188	C	C6-N1-C1'	-5.63	114.04	120.80
1	AA	320	A	N1-C2-N3	-5.63	126.48	129.30
1	AA	522	C	C5'-C4'-C3'	-5.63	106.99	116.00
1	AA	630	A	C6-N1-C2	-5.63	115.22	118.60
1	AA	689	C	C4-C5-C6	-5.63	114.58	117.40
1	AA	690	G	N3-C2-N2	-5.63	115.96	119.90
1	AA	883	C	N3-C4-N4	5.63	121.94	118.00
1	AA	958	A	C8-N9-C4	5.63	108.05	105.80
1	AA	1341	U	N3-C4-O4	-5.63	115.46	119.40
1	AA	1503	A	N1-C2-N3	-5.63	126.48	129.30
25	BA	23	G	C5-N7-C8	5.63	107.12	104.30
26	BB	215	G	N7-C8-N9	-5.63	110.28	113.10
26	BB	228	C	C2-N3-C4	5.63	122.72	119.90
26	BB	643	A	C5-C6-N6	-5.63	119.19	123.70
26	BB	858	G	C4'-C3'-C2'	-5.63	96.97	102.60
26	BB	956	G	C1'-O4'-C4'	-5.63	105.39	109.90
26	BB	1236	G	N1-C2-N3	-5.63	120.52	123.90
26	BB	1305	C	N3-C4-C5	5.63	124.15	121.90
26	BB	1874	C	N1-C2-N3	-5.63	115.26	119.20
26	BB	1887	C	C6-N1-C2	-5.63	118.05	120.30
26	BB	1929	G	C4-C5-C6	5.63	122.18	118.80
26	BB	2232	C	O4'-C1'-N1	5.63	112.70	108.20
26	BB	2564	A	P-O3'-C3'	5.63	126.46	119.70
49	BY	54	ARG	CD-NE-CZ	5.63	131.48	123.60
1	AA	411	A	C5-N7-C8	-5.63	101.08	103.90
1	AA	602	A	C8-N9-C4	-5.63	103.55	105.80
1	AA	1381	U	C5-C6-N1	5.63	125.52	122.70
5	AE	34	ARG	NE-CZ-NH2	-5.63	117.48	120.30
26	BB	760	G	C4'-C3'-C2'	5.63	108.23	102.60
26	BB	1160	G	N9-C1'-C2'	-5.63	105.81	112.00
26	BB	1203	U	N3-C4-C5	-5.63	111.22	114.60
26	BB	1273	U	C5'-C4'-C3'	-5.63	106.99	116.00
26	BB	1391	U	C6-N1-C2	-5.63	117.62	121.00
1	AA	49	U	C5'-C4'-O4'	5.63	115.86	109.10
1	AA	285	C	C5-C6-N1	5.63	123.81	121.00
1	AA	609	A	C2-N3-C4	5.63	113.41	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1102	A	N9-C4-C5	5.63	108.05	105.80
1	AA	1150	A	C5-N7-C8	-5.63	101.09	103.90
1	AA	1249	C	N1-C2-O2	5.63	122.28	118.90
26	BB	232	G	C8-N9-C4	-5.63	104.15	106.40
26	BB	590	A	N1-C6-N6	-5.63	115.22	118.60
26	BB	756	A	N7-C8-N9	5.63	116.61	113.80
26	BB	940	G	N3-C4-C5	-5.63	125.79	128.60
26	BB	1277	G	N1-C6-O6	5.63	123.28	119.90
26	BB	1394	U	C4-C5-C6	5.63	123.08	119.70
26	BB	1578	U	C4'-C3'-C2'	-5.63	96.97	102.60
26	BB	1880	U	C3'-C2'-C1'	-5.63	97.00	101.50
26	BB	1914	C	C5'-C4'-O4'	5.63	115.85	109.10
26	BB	1979	U	C4'-C3'-C2'	-5.63	96.97	102.60
26	BB	2441	U	C6-N1-C2	-5.63	117.62	121.00
26	BB	2675	A	N1-C2-N3	-5.63	126.49	129.30
26	BB	2735	G	O4'-C1'-N9	5.63	112.70	108.20
26	BB	2787	C	O4'-C1'-C2'	5.63	112.67	107.60
1	AA	68	G	N3-C4-N9	5.63	129.38	126.00
1	AA	98	A	P-O3'-C3'	5.63	126.45	119.70
1	AA	1041	G	C8-N9-C1'	5.63	134.31	127.00
1	AA	1172	C	N1-C2-N3	5.63	123.14	119.20
1	AA	1175	G	C4-C5-N7	5.63	113.05	110.80
1	AA	1441	A	N9-C4-C5	5.63	108.05	105.80
26	BB	660	C	C5-C4-N4	5.63	124.14	120.20
26	BB	1092	C	C6-N1-C2	-5.63	118.05	120.30
26	BB	1172	C	C2-N3-C4	5.63	122.71	119.90
26	BB	1180	U	C1'-O4'-C4'	5.63	114.40	109.90
26	BB	1828	G	C4-C5-C6	5.63	122.18	118.80
26	BB	2690	U	P-O3'-C3'	5.63	126.45	119.70
27	BC	39	VAL	CG1-CB-CG2	-5.63	101.90	110.90
44	BT	40	MET	CG-SD-CE	5.63	109.20	100.20
1	AA	743	A	C4-C5-C6	-5.62	114.19	117.00
2	AB	74	C	N3-C4-C5	-5.62	119.65	121.90
3	AC	35	G	C2-N3-C4	5.62	114.71	111.90
25	BA	106	G	C3'-C2'-C1'	-5.62	97.00	101.50
26	BB	354	A	C5-C6-N1	5.62	120.51	117.70
26	BB	894	U	C5-C4-O4	5.62	129.28	125.90
26	BB	2664	G	N3-C4-N9	5.62	129.38	126.00
26	BB	2899	A	N1-C6-N6	-5.62	115.22	118.60
1	AA	611	C	C4-C5-C6	5.62	120.21	117.40
12	AL	93	LEU	CB-CG-CD2	-5.62	101.44	111.00
26	BB	274	C	C5-C6-N1	5.62	123.81	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	366	C	O4'-C4'-C3'	5.62	110.60	106.10
26	BB	435	C	N1-C2-O2	5.62	122.27	118.90
26	BB	893	C	O4'-C1'-N1	5.62	112.70	108.20
26	BB	959	A	OP1-P-O3'	5.62	117.57	105.20
26	BB	1151	A	C6-N1-C2	5.62	121.97	118.60
26	BB	1433	A	C2-N3-C4	5.62	113.41	110.60
26	BB	1580	A	C4'-C3'-C2'	-5.62	96.98	102.60
26	BB	1726	C	N3-C4-C5	5.62	124.15	121.90
26	BB	1992	G	N3-C4-C5	-5.62	125.79	128.60
26	BB	2142	A	C5-C6-N1	-5.62	114.89	117.70
26	BB	2417	C	C4'-C3'-C2'	-5.62	96.98	102.60
26	BB	2544	G	N1-C2-N2	5.62	121.26	116.20
26	BB	2639	A	C4-C5-N7	-5.62	107.89	110.70
26	BB	2724	U	C3'-C2'-C1'	5.62	106.00	101.50
1	AA	24	U	N1-C2-O2	-5.62	118.86	122.80
1	AA	384	G	N3-C4-C5	-5.62	125.79	128.60
1	AA	579	A	N9-C1'-C2'	-5.62	105.82	112.00
1	AA	709	U	C2-N1-C1'	5.62	124.44	117.70
2	AB	27	C	C5'-C4'-O4'	5.62	115.84	109.10
4	AD	43	G	N3-C2-N2	5.62	123.83	119.90
14	AN	52	ARG	CB-CA-C	5.62	121.64	110.40
26	BB	108	G	C5-C6-N1	5.62	114.31	111.50
26	BB	700	G	N1-C2-N2	5.62	121.26	116.20
26	BB	1325	U	C5-C4-O4	-5.62	122.53	125.90
26	BB	1383	A	C5-N7-C8	-5.62	101.09	103.90
26	BB	1601	G	N9-C4-C5	-5.62	103.15	105.40
26	BB	1752	C	C5'-C4'-C3'	-5.62	107.01	116.00
26	BB	2023	C	O5'-C5'-C4'	-5.62	101.02	111.70
26	BB	2208	C	C3'-C2'-C1'	5.62	106.00	101.50
1	AA	221	C	C2-N3-C4	-5.62	117.09	119.90
1	AA	642	A	C6-N1-C2	-5.62	115.23	118.60
26	BB	573	U	C3'-C2'-C1'	-5.62	97.00	101.50
26	BB	821	A	O5'-C5'-C4'	5.62	122.38	111.70
26	BB	1588	G	C5-C6-O6	-5.62	125.23	128.60
1	AA	71	A	C6-N1-C2	5.62	121.97	118.60
1	AA	549	C	C3'-C2'-C1'	-5.62	97.01	101.50
1	AA	647	C	C4'-C3'-C2'	-5.62	96.98	102.60
1	AA	651	C	C2-N3-C4	5.62	122.71	119.90
1	AA	1018	G	N9-C4-C5	5.62	107.65	105.40
26	BB	29	U	C5-C4-O4	5.62	129.27	125.90
26	BB	334	C	N1-C2-O2	5.62	122.27	118.90
26	BB	679	C	C5'-C4'-O4'	5.62	115.84	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	844	A	C3'-C2'-C1'	5.62	106.00	101.50
26	BB	1166	G	N7-C8-N9	5.62	115.91	113.10
26	BB	1525	A	C6-N1-C2	5.62	121.97	118.60
26	BB	1822	C	N3-C4-C5	5.62	124.15	121.90
26	BB	1875	G	C5-C6-O6	-5.62	125.23	128.60
26	BB	2421	G	N9-C4-C5	5.62	107.65	105.40
26	BB	2475	C	C1'-O4'-C4'	5.62	114.39	109.90
26	BB	2884	U	C2-N3-C4	-5.62	123.63	127.00
33	BI	51	ARG	NE-CZ-NH2	-5.62	117.49	120.30
1	AA	265	G	C4-C5-N7	-5.62	108.55	110.80
1	AA	1090	U	C2-N3-C4	-5.62	123.63	127.00
25	BA	61	G	C5-C6-O6	-5.62	125.23	128.60
26	BB	533	G	N3-C4-N9	5.62	129.37	126.00
26	BB	833	A	C8-N9-C4	-5.62	103.55	105.80
26	BB	1304	A	C4-C5-C6	-5.62	114.19	117.00
26	BB	1368	G	N3-C4-C5	-5.62	125.79	128.60
26	BB	1637	A	O4'-C4'-C3'	5.62	110.59	106.10
26	BB	1935	G	N9-C4-C5	-5.62	103.15	105.40
26	BB	1969	A	C5-N7-C8	5.62	106.71	103.90
26	BB	2789	C	C5-C4-N4	-5.62	116.27	120.20
33	BI	132	PHE	CB-CG-CD1	-5.62	116.87	120.80
1	AA	494	G	C2-N3-C4	5.62	114.71	111.90
1	AA	576	C	N3-C2-O2	-5.62	117.97	121.90
1	AA	695	A	N7-C8-N9	-5.62	110.99	113.80
1	AA	855	U	N3-C4-O4	5.62	123.33	119.40
1	AA	1006	G	N3-C2-N2	-5.62	115.97	119.90
1	AA	1072	G	C1'-O4'-C4'	5.62	114.39	109.90
4	AD	26	C	C4'-C3'-C2'	-5.62	96.98	102.60
19	AS	14	ARG	NE-CZ-NH1	5.62	123.11	120.30
26	BB	750	A	N3-C4-N9	-5.62	122.91	127.40
26	BB	1321	A	C5-N7-C8	5.62	106.71	103.90
26	BB	1452	G	N3-C4-N9	-5.62	122.63	126.00
26	BB	1512	C	C5-C6-N1	-5.62	118.19	121.00
26	BB	1674	G	C4-C5-N7	-5.62	108.55	110.80
26	BB	1733	G	C4-C5-N7	-5.62	108.55	110.80
26	BB	2340	A	C5-N7-C8	-5.62	101.09	103.90
26	BB	2806	C	P-O3'-C3'	5.62	126.44	119.70
26	BB	2817	U	N3-C2-O2	-5.62	118.27	122.20
34	BJ	83	TYR	CA-CB-CG	5.62	124.07	113.40
1	AA	1180	A	C4-C5-N7	-5.61	107.89	110.70
1	AA	1534	A	C6-C5-N7	5.61	136.23	132.30
2	AB	27	C	P-O3'-C3'	5.61	126.44	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	300	A	N9-C4-C5	5.61	108.05	105.80
26	BB	367	G	N9-C1'-C2'	-5.61	105.83	112.00
26	BB	425	G	N9-C1'-C2'	-5.61	105.82	112.00
26	BB	601	C	O4'-C1'-N1	5.61	112.69	108.20
26	BB	1014	A	N3-C4-N9	5.61	131.89	127.40
26	BB	1408	G	C5'-C4'-O4'	-5.61	102.36	109.10
26	BB	2581	G	C4-C5-C6	5.61	122.17	118.80
26	BB	2884	U	C6-N1-C2	5.61	124.37	121.00
1	AA	250	A	C4'-C3'-C2'	-5.61	96.99	102.60
4	AD	20	G	C8-N9-C4	-5.61	104.16	106.40
26	BB	932	U	C5-C4-O4	-5.61	122.53	125.90
26	BB	1993	U	C4'-C3'-C2'	-5.61	96.99	102.60
26	BB	2029	G	C4-C5-N7	5.61	113.05	110.80
26	BB	2319	G	C4-C5-C6	-5.61	115.43	118.80
1	AA	678	U	C3'-C2'-C1'	-5.61	97.01	101.50
1	AA	909	A	O4'-C1'-N9	5.61	112.69	108.20
1	AA	1394	A	C4-C5-C6	-5.61	114.19	117.00
1	AA	1477	U	O4'-C1'-C2'	-5.61	100.19	105.80
1	AA	1533	C	C1'-O4'-C4'	-5.61	105.41	109.90
3	AC	30	U	O4'-C4'-C3'	5.61	110.59	106.10
25	BA	107	G	C4-C5-C6	5.61	122.17	118.80
26	BB	211	C	N3-C4-C5	-5.61	119.66	121.90
26	BB	834	G	N3-C4-N9	5.61	129.37	126.00
26	BB	1080	A	C4'-C3'-C2'	-5.61	96.99	102.60
26	BB	1209	U	N1-C2-N3	5.61	118.27	114.90
26	BB	1505	A	O3'-P-O5'	5.61	114.66	104.00
26	BB	1684	G	C4-C5-C6	5.61	122.17	118.80
26	BB	1892	C	N3-C2-O2	-5.61	117.97	121.90
26	BB	1936	A	C5-N7-C8	-5.61	101.09	103.90
26	BB	2621	G	N1-C2-N3	-5.61	120.53	123.90
26	BB	2827	C	O4'-C1'-N1	5.61	112.69	108.20
1	AA	108	G	C2-N3-C4	5.61	114.70	111.90
1	AA	771	G	C5-C6-N1	5.61	114.30	111.50
1	AA	872	A	C5'-C4'-O4'	-5.61	102.37	109.10
1	AA	1268	G	C4-C5-C6	5.61	122.17	118.80
26	BB	192	C	N3-C2-O2	-5.61	117.97	121.90
26	BB	578	G	N3-C2-N2	5.61	123.83	119.90
26	BB	638	G	C5'-C4'-C3'	-5.61	107.03	116.00
26	BB	744	U	N1-C1'-C2'	-5.61	105.83	112.00
26	BB	888	C	N3-C2-O2	-5.61	117.97	121.90
26	BB	1236	G	N7-C8-N9	5.61	115.90	113.10
26	BB	1240	U	O4'-C1'-N1	5.61	112.69	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	BH	2	ARG	NE-CZ-NH2	5.61	123.11	120.30
1	AA	177	G	C5-C6-N1	5.61	114.30	111.50
1	AA	247	G	O4'-C1'-C2'	5.61	112.65	107.60
1	AA	822	U	OP1-P-O3'	5.61	117.54	105.20
1	AA	963	G	C4-C5-N7	5.61	113.04	110.80
1	AA	1201	A	C8-N9-C4	-5.61	103.56	105.80
1	AA	1210	C	C4-C5-C6	5.61	120.20	117.40
1	AA	1269	A	N9-C4-C5	-5.61	103.56	105.80
1	AA	1538	C	O4'-C4'-C3'	5.61	110.58	106.10
6	AF	125	ARG	NH1-CZ-NH2	5.61	125.57	119.40
26	BB	81	G	C5-N7-C8	-5.61	101.50	104.30
26	BB	204	A	C6-C5-N7	5.61	136.22	132.30
26	BB	273	G	O4'-C1'-N9	5.61	112.69	108.20
26	BB	275	C	N1-C2-O2	5.61	122.27	118.90
26	BB	416	U	O4'-C1'-N1	5.61	112.69	108.20
26	BB	644	A	C6-N1-C2	5.61	121.97	118.60
26	BB	718	A	N7-C8-N9	5.61	116.60	113.80
26	BB	1115	G	C4'-C3'-C2'	-5.61	96.99	102.60
26	BB	1987	A	C1'-O4'-C4'	-5.61	105.41	109.90
26	BB	2366	A	N3-C4-C5	-5.61	122.88	126.80
26	BB	2415	G	C2'-C3'-O3'	5.61	122.67	113.70
36	BL	69	ARG	CD-NE-CZ	5.61	131.45	123.60
1	AA	316	C	O4'-C1'-C2'	-5.61	100.19	105.80
1	AA	528	C	P-O3'-C3'	5.61	126.43	119.70
1	AA	563	A	C5'-C4'-O4'	5.61	115.83	109.10
1	AA	1331	G	N3-C4-C5	-5.61	125.80	128.60
10	AJ	101	ARG	NE-CZ-NH1	5.61	123.10	120.30
26	BB	41	C	N1-C2-O2	5.61	122.26	118.90
26	BB	113	U	N3-C4-O4	5.61	123.32	119.40
26	BB	123	G	N3-C4-N9	-5.61	122.64	126.00
26	BB	365	U	C5'-C4'-C3'	-5.61	107.03	116.00
26	BB	493	G	N3-C4-C5	-5.61	125.80	128.60
26	BB	537	G	N3-C2-N2	5.61	123.82	119.90
26	BB	825	A	C4-C5-C6	-5.61	114.20	117.00
26	BB	883	G	N9-C4-C5	5.61	107.64	105.40
26	BB	935	C	N3-C4-N4	5.61	121.92	118.00
26	BB	1342	A	C4-C5-C6	-5.61	114.20	117.00
26	BB	1473	G	C8-N9-C1'	5.61	134.29	127.00
26	BB	1814	G	N1-C6-O6	5.61	123.26	119.90
26	BB	1866	A	C6-N1-C2	5.61	121.96	118.60
26	BB	2179	C	O4'-C1'-N1	5.61	112.68	108.20
26	BB	2459	A	C4-C5-C6	5.61	119.80	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2687	U	N3-C4-O4	5.61	123.32	119.40
26	BB	2900	A	P-O5'-C5'	5.61	129.87	120.90
28	BD	102	TYR	CB-CG-CD2	-5.61	117.64	121.00
33	BI	136	SER	N-CA-CB	-5.61	102.09	110.50
37	BM	3	GLN	O-C-N	5.61	131.67	122.70
1	AA	1260	G	C6-N1-C2	-5.60	121.74	125.10
26	BB	1471	G	C5-C6-O6	-5.60	125.24	128.60
26	BB	1509	A	C4-C5-C6	5.60	119.80	117.00
26	BB	2012	G	C5-C6-N1	5.60	114.30	111.50
26	BB	2019	A	C8-N9-C4	-5.60	103.56	105.80
26	BB	2454	G	C5'-C4'-O4'	5.60	115.83	109.10
28	BD	174	ARG	NE-CZ-NH1	5.60	123.10	120.30
1	AA	148	G	C4-C5-N7	-5.60	108.56	110.80
1	AA	588	G	C5-C6-N1	5.60	114.30	111.50
1	AA	633	G	C4-C5-C6	-5.60	115.44	118.80
1	AA	681	A	N3-C4-C5	-5.60	122.88	126.80
1	AA	778	G	C8-N9-C4	-5.60	104.16	106.40
1	AA	1058	G	N7-C8-N9	5.60	115.90	113.10
1	AA	1101	A	C5-N7-C8	5.60	106.70	103.90
1	AA	1154	G	C2-N3-C4	5.60	114.70	111.90
1	AA	1455	G	C6-N1-C2	-5.60	121.74	125.10
26	BB	103	A	C6-C5-N7	5.60	136.22	132.30
26	BB	145	C	N3-C2-O2	5.60	125.82	121.90
26	BB	353	C	C4'-C3'-C2'	-5.60	97.00	102.60
26	BB	1020	A	C8-N9-C4	-5.60	103.56	105.80
26	BB	2208	C	C6-N1-C2	-5.60	118.06	120.30
26	BB	2657	A	C6-C5-N7	-5.60	128.38	132.30
1	AA	11	G	N3-C4-C5	-5.60	125.80	128.60
1	AA	636	U	N3-C2-O2	-5.60	118.28	122.20
1	AA	817	C	N3-C4-C5	-5.60	119.66	121.90
1	AA	1259	C	O4'-C1'-N1	5.60	112.68	108.20
1	AA	1357	A	C6-C5-N7	5.60	136.22	132.30
4	AD	17	C	N3-C4-N4	5.60	121.92	118.00
6	AF	195	ILE	CA-CB-CG1	5.60	121.64	111.00
24	AX	65	ARG	CD-NE-CZ	5.60	131.44	123.60
26	BB	1048	A	N3-C4-C5	-5.60	122.88	126.80
26	BB	1799	G	C2-N3-C4	5.60	114.70	111.90
26	BB	2231	U	C4-C5-C6	5.60	123.06	119.70
26	BB	2638	G	C2-N3-C4	5.60	114.70	111.90
26	BB	2814	A	N1-C6-N6	5.60	121.96	118.60
28	BD	29	PHE	CB-CG-CD1	5.60	124.72	120.80
40	BP	94	TYR	CB-CG-CD2	5.60	124.36	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	97	G	C1'-O4'-C4'	5.60	114.38	109.90
1	AA	289	G	N9-C1'-C2'	-5.60	105.84	112.00
1	AA	597	G	N3-C2-N2	-5.60	115.98	119.90
1	AA	803	G	C5'-C4'-O4'	5.60	115.82	109.10
1	AA	818	G	O4'-C1'-N9	5.60	112.68	108.20
1	AA	1110	A	N1-C2-N3	-5.60	126.50	129.30
26	BB	190	A	C1'-O4'-C4'	5.60	114.38	109.90
26	BB	375	G	N1-C2-N3	5.60	127.26	123.90
26	BB	767	U	C2-N3-C4	-5.60	123.64	127.00
26	BB	1719	G	N3-C4-C5	-5.60	125.80	128.60
26	BB	2323	G	C4'-C3'-C2'	-5.60	97.00	102.60
52	B1	39	ASP	CB-CG-OD1	-5.60	113.26	118.30
1	AA	318	G	P-O3'-C3'	5.60	126.42	119.70
1	AA	532	A	C3'-C2'-C1'	-5.60	97.02	101.50
1	AA	635	A	C5-C6-N6	-5.60	119.22	123.70
1	AA	1123	U	C5'-C4'-C3'	-5.60	107.04	116.00
3	AC	18	A	C4-C5-N7	5.60	113.50	110.70
26	BB	413	C	C5-C4-N4	-5.60	116.28	120.20
26	BB	577	G	C2-N3-C4	5.60	114.70	111.90
26	BB	1168	G	C1'-O4'-C4'	5.60	114.38	109.90
26	BB	1193	G	C5'-C4'-C3'	-5.60	107.05	116.00
26	BB	1290	C	N1-C1'-C2'	-5.60	105.84	112.00
26	BB	1857	G	N3-C4-C5	-5.60	125.80	128.60
26	BB	2332	C	C1'-O4'-C4'	5.60	114.38	109.90
26	BB	2492	U	C1'-O4'-C4'	5.60	114.38	109.90
1	AA	1236	A	C5'-C4'-O4'	5.60	115.82	109.10
26	BB	2302	U	C4'-C3'-C2'	-5.60	97.00	102.60
1	AA	119	A	O4'-C4'-C3'	5.59	110.58	106.10
1	AA	597	G	N1-C2-N2	5.59	121.23	116.20
1	AA	703	G	O4'-C1'-C2'	-5.59	100.20	105.80
10	AJ	5	VAL	CA-CB-CG1	5.59	119.29	110.90
25	BA	28	C	C5'-C4'-C3'	-5.59	107.05	116.00
25	BA	51	G	C5'-C4'-C3'	-5.59	107.05	116.00
26	BB	131	A	N9-C4-C5	5.59	108.04	105.80
26	BB	270	A	C4-C5-C6	-5.59	114.20	117.00
26	BB	361	G	N3-C4-C5	-5.59	125.80	128.60
26	BB	425	G	N1-C2-N2	5.59	121.23	116.20
26	BB	609	A	O4'-C1'-N9	5.59	112.68	108.20
26	BB	1128	G	N3-C4-C5	-5.59	125.80	128.60
26	BB	1399	C	C5-C4-N4	-5.59	116.28	120.20
26	BB	2032	G	C3'-C2'-C1'	-5.59	97.03	101.50
26	BB	2336	A	C6-C5-N7	5.59	136.22	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2365	G	C5-C6-O6	-5.59	125.24	128.60
47	BW	1	ALA	CB-CA-C	-5.59	101.71	110.10
1	AA	179	A	OP1-P-O3'	5.59	117.51	105.20
1	AA	213	G	N7-C8-N9	5.59	115.90	113.10
1	AA	1457	G	N1-C6-O6	-5.59	116.54	119.90
26	BB	427	U	O4'-C1'-N1	5.59	112.67	108.20
26	BB	1051	G	C4-C5-C6	5.59	122.16	118.80
26	BB	1410	G	P-O3'-C3'	5.59	126.41	119.70
1	AA	247	G	P-O3'-C3'	5.59	126.41	119.70
1	AA	248	C	C5'-C4'-O4'	5.59	115.81	109.10
1	AA	417	G	C2'-C3'-O3'	5.59	122.65	113.70
1	AA	731	G	N1-C6-O6	5.59	123.25	119.90
1	AA	877	G	C3'-C2'-C1'	-5.59	97.03	101.50
1	AA	1354	U	N1-C1'-C2'	-5.59	105.85	112.00
1	AA	1420	U	C2-N3-C4	-5.59	123.64	127.00
20	AT	69	THR	CA-CB-CG2	-5.59	104.57	112.40
26	BB	92	U	C4'-C3'-C2'	-5.59	97.01	102.60
26	BB	313	G	O5'-P-OP1	5.59	117.41	110.70
26	BB	537	G	N9-C4-C5	5.59	107.64	105.40
26	BB	729	G	O5'-C5'-C4'	-5.59	101.08	111.70
26	BB	1214	A	C2-N3-C4	5.59	113.39	110.60
26	BB	2229	U	N1-C2-N3	5.59	118.25	114.90
26	BB	2288	A	O5'-P-OP1	-5.59	100.67	105.70
26	BB	2566	A	N1-C6-N6	-5.59	115.25	118.60
26	BB	2568	U	C2-N3-C4	-5.59	123.64	127.00
1	AA	37	U	O4'-C1'-N1	5.59	112.67	108.20
1	AA	624	C	C1'-O4'-C4'	-5.59	105.43	109.90
1	AA	745	G	N1-C6-O6	5.59	123.25	119.90
1	AA	919	A	P-O3'-C3'	5.59	126.41	119.70
1	AA	1438	G	N7-C8-N9	-5.59	110.31	113.10
7	AG	17	ASP	CB-CG-OD1	-5.59	113.27	118.30
10	AJ	9	ARG	NE-CZ-NH1	-5.59	117.50	120.30
26	BB	185	G	C6-N1-C2	-5.59	121.75	125.10
26	BB	670	A	C5-N7-C8	-5.59	101.11	103.90
26	BB	1232	G	N9-C1'-C2'	-5.59	105.85	112.00
26	BB	1261	C	N3-C4-C5	5.59	124.14	121.90
26	BB	1469	A	N7-C8-N9	5.59	116.59	113.80
26	BB	1829	A	N1-C2-N3	-5.59	126.51	129.30
26	BB	2138	G	O5'-C5'-C4'	-5.59	101.08	111.70
26	BB	2232	C	N3-C2-O2	-5.59	117.99	121.90
26	BB	2707	U	C4'-C3'-C2'	-5.59	97.01	102.60
26	BB	2734	A	C5'-C4'-O4'	5.59	115.81	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2819	G	N1-C2-N2	5.59	121.23	116.20
50	BZ	44	ARG	NE-CZ-NH2	-5.59	117.50	120.30
1	AA	409	U	N3-C2-O2	-5.59	118.29	122.20
1	AA	875	U	N1-C2-N3	5.59	118.25	114.90
1	AA	1256	A	C6-C5-N7	5.59	136.21	132.30
26	BB	56	A	O4'-C1'-N9	-5.59	103.73	108.20
26	BB	216	A	N7-C8-N9	-5.59	111.01	113.80
26	BB	299	A	P-O3'-C3'	5.59	126.41	119.70
26	BB	656	G	C2-N3-C4	-5.59	109.11	111.90
26	BB	2730	C	C5-C6-N1	5.59	123.79	121.00
1	AA	9	G	N9-C4-C5	-5.59	103.17	105.40
1	AA	597	G	C2-N3-C4	5.59	114.69	111.90
1	AA	729	A	N1-C2-N3	-5.59	126.51	129.30
1	AA	819	A	N7-C8-N9	5.59	116.59	113.80
1	AA	912	C	N3-C4-C5	-5.59	119.67	121.90
1	AA	988	G	C4'-C3'-C2'	-5.59	97.01	102.60
1	AA	1029	U	C6-N1-C2	-5.59	117.65	121.00
4	AD	31	G	N1-C2-N3	-5.59	120.55	123.90
26	BB	358	U	C4'-C3'-C2'	-5.59	97.01	102.60
26	BB	524	G	C1'-O4'-C4'	-5.59	105.43	109.90
26	BB	1615	C	C4-C5-C6	-5.59	114.61	117.40
26	BB	1667	G	C5-C6-O6	-5.59	125.25	128.60
26	BB	2352	A	C5'-C4'-O4'	5.59	115.80	109.10
31	BG	139	GLU	OE1-CD-OE2	5.59	130.00	123.30
37	BM	69	VAL	CG1-CB-CG2	-5.59	101.96	110.90
1	AA	184	G	N3-C4-C5	-5.58	125.81	128.60
1	AA	289	G	O4'-C1'-N9	5.58	112.67	108.20
1	AA	294	U	C5'-C4'-O4'	5.58	115.80	109.10
26	BB	478	A	N1-C6-N6	-5.58	115.25	118.60
26	BB	583	G	N1-C2-N3	-5.58	120.55	123.90
26	BB	1114	C	O4'-C1'-C2'	-5.58	100.22	105.80
26	BB	1431	A	O4'-C1'-N9	-5.58	103.73	108.20
1	AA	53	A	C6-N1-C2	5.58	121.95	118.60
1	AA	298	A	N9-C1'-C2'	-5.58	105.86	112.00
1	AA	562	U	C1'-O4'-C4'	-5.58	105.43	109.90
1	AA	1478	U	C1'-O4'-C4'	5.58	114.37	109.90
26	BB	126	A	N9-C4-C5	5.58	108.03	105.80
26	BB	1472	C	N1-C2-O2	5.58	122.25	118.90
26	BB	2094	A	N9-C4-C5	5.58	108.03	105.80
26	BB	2435	A	C1'-O4'-C4'	-5.58	105.43	109.90
1	AA	339	C	N3-C4-N4	5.58	121.91	118.00
1	AA	570	G	C8-N9-C4	-5.58	104.17	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	710	G	N1-C2-N2	5.58	121.22	116.20
1	AA	852	G	N1-C2-N3	-5.58	120.55	123.90
1	AA	1056	U	N3-C2-O2	-5.58	118.29	122.20
2	AB	49	G	N1-C2-N2	5.58	121.22	116.20
26	BB	57	C	C5-C6-N1	5.58	123.79	121.00
26	BB	75	G	C5-C6-N1	5.58	114.29	111.50
26	BB	94	A	C5'-C4'-O4'	5.58	115.80	109.10
26	BB	118	A	C5-N7-C8	5.58	106.69	103.90
26	BB	298	G	C5'-C4'-O4'	5.58	115.80	109.10
26	BB	414	C	C4'-C3'-C2'	-5.58	97.02	102.60
26	BB	807	U	C2-N3-C4	-5.58	123.65	127.00
26	BB	984	A	C8-N9-C4	-5.58	103.57	105.80
26	BB	1320	C	N3-C2-O2	-5.58	117.99	121.90
26	BB	1335	C	N1-C2-O2	5.58	122.25	118.90
26	BB	1826	G	C3'-C2'-C1'	-5.58	97.03	101.50
26	BB	1993	U	C5-C6-N1	-5.58	119.91	122.70
26	BB	2117	A	N9-C4-C5	-5.58	103.57	105.80
26	BB	2435	A	C4'-C3'-C2'	-5.58	97.02	102.60
1	AA	1413	A	N9-C4-C5	5.58	108.03	105.80
26	BB	6	A	C4-C5-N7	-5.58	107.91	110.70
26	BB	150	U	C2-N3-C4	-5.58	123.65	127.00
26	BB	207	A	C5-C6-N1	-5.58	114.91	117.70
26	BB	325	G	N1-C6-O6	5.58	123.25	119.90
26	BB	1943	U	C2-N1-C1'	5.58	124.40	117.70
1	AA	37	U	C5'-C4'-O4'	5.58	115.79	109.10
1	AA	640	A	C4'-C3'-C2'	-5.58	97.02	102.60
1	AA	647	C	C2'-C3'-O3'	5.58	122.62	113.70
1	AA	706	A	C1'-O4'-C4'	-5.58	105.44	109.90
1	AA	991	U	O3'-P-O5'	-5.58	93.40	104.00
1	AA	1427	C	C5'-C4'-O4'	5.58	115.79	109.10
6	AF	228	ARG	NE-CZ-NH1	-5.58	117.51	120.30
26	BB	474	G	N1-C2-N3	-5.58	120.55	123.90
26	BB	487	C	N1-C2-O2	5.58	122.25	118.90
26	BB	748	G	N1-C6-O6	5.58	123.25	119.90
26	BB	887	U	N1-C2-N3	5.58	118.25	114.90
26	BB	976	G	C5-C6-O6	5.58	131.95	128.60
26	BB	1093	G	N3-C4-N9	-5.58	122.65	126.00
26	BB	1301	A	O4'-C1'-C2'	-5.58	100.22	105.80
26	BB	1545	A	C6-N1-C2	-5.58	115.25	118.60
26	BB	1842	G	O4'-C1'-N9	5.58	112.66	108.20
26	BB	2142	A	C1'-O4'-C4'	5.58	114.36	109.90
26	BB	2312	U	C3'-C2'-C1'	5.58	105.96	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2362	C	C6-N1-C2	-5.58	118.07	120.30
26	BB	2802	G	N3-C4-N9	-5.58	122.65	126.00
1	AA	439	U	C3'-C2'-C1'	-5.58	97.04	101.50
4	AD	1	C	N3-C2-O2	-5.58	118.00	121.90
4	AD	68	C	P-O3'-C3'	5.58	126.39	119.70
26	BB	677	A	C2-N3-C4	-5.58	107.81	110.60
26	BB	819	A	C4-C5-C6	-5.58	114.21	117.00
26	BB	926	G	N9-C4-C5	5.58	107.63	105.40
26	BB	1116	G	C6-C5-N7	-5.58	127.05	130.40
26	BB	1454	C	C5-C6-N1	5.58	123.79	121.00
26	BB	1501	G	N3-C2-N2	-5.58	116.00	119.90
26	BB	1560	G	C4-C5-N7	-5.58	108.57	110.80
26	BB	1978	A	C4-C5-N7	-5.58	107.91	110.70
26	BB	2770	G	C5-C6-N1	5.58	114.29	111.50
30	BF	129	PRO	N-CD-CG	5.58	111.56	103.20
1	AA	213	G	C3'-C2'-C1'	5.58	105.96	101.50
1	AA	740	U	C4'-C3'-O3'	5.58	124.15	113.00
1	AA	1414	U	C6-N1-C1'	5.58	129.01	121.20
1	AA	1532	U	N1-C2-N3	5.58	118.25	114.90
2	AB	1	A	C2'-C3'-O3'	5.58	122.62	113.70
4	AD	31	G	N3-C2-N2	-5.58	116.00	119.90
22	AV	71	GLY	O-C-N	5.58	131.62	122.70
26	BB	107	G	N3-C2-N2	5.58	123.80	119.90
26	BB	574	A	N7-C8-N9	-5.58	111.01	113.80
26	BB	643	A	N3-C4-C5	5.58	130.70	126.80
26	BB	792	A	C6-C5-N7	5.58	136.20	132.30
26	BB	856	G	N3-C2-N2	-5.58	116.00	119.90
26	BB	908	C	C1'-O4'-C4'	-5.58	105.44	109.90
26	BB	1110	G	O5'-P-OP1	-5.58	100.68	105.70
26	BB	1281	G	O4'-C1'-N9	5.58	112.66	108.20
26	BB	1289	C	C1'-O4'-C4'	5.58	114.36	109.90
26	BB	2686	G	C2-N3-C4	5.58	114.69	111.90
26	BB	2821	A	N1-C2-N3	-5.58	126.51	129.30
30	BF	196	VAL	CG1-CB-CG2	-5.58	101.98	110.90
1	AA	257	G	N1-C2-N2	5.57	121.22	116.20
1	AA	397	A	C6-N1-C2	5.57	121.94	118.60
1	AA	701	U	N1-C2-N3	-5.57	111.56	114.90
1	AA	755	G	C6-N1-C2	-5.57	121.76	125.10
1	AA	815	A	C1'-O4'-C4'	-5.57	105.44	109.90
1	AA	1004	A	N9-C4-C5	5.57	108.03	105.80
1	AA	1179	A	N9-C4-C5	5.57	108.03	105.80
1	AA	1458	G	O3'-P-O5'	-5.57	93.41	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	42	U	O3'-P-O5'	5.57	114.59	104.00
26	BB	813	U	C1'-O4'-C4'	-5.57	105.44	109.90
26	BB	1129	A	N7-C8-N9	5.57	116.59	113.80
26	BB	1345	C	O3'-P-O5'	-5.57	93.41	104.00
26	BB	2047	C	C5-C6-N1	5.57	123.79	121.00
26	BB	2072	C	C6-N1-C2	5.57	122.53	120.30
26	BB	2209	G	O4'-C1'-N9	5.57	112.66	108.20
26	BB	2659	G	O4'-C1'-N9	5.57	112.66	108.20
26	BB	2663	G	N1-C2-N3	-5.57	120.56	123.90
1	AA	276	G	N3-C4-C5	-5.57	125.81	128.60
1	AA	1413	A	C5-C6-N6	-5.57	119.24	123.70
26	BB	35	G	C4-C5-C6	5.57	122.14	118.80
26	BB	1133	A	O4'-C1'-N9	5.57	112.66	108.20
26	BB	1292	G	C4'-C3'-C2'	-5.57	97.03	102.60
26	BB	1516	G	N9-C1'-C2'	-5.57	105.87	112.00
26	BB	1805	A	C8-N9-C4	-5.57	103.57	105.80
26	BB	1875	G	C5'-C4'-O4'	-5.57	102.41	109.10
26	BB	2295	C	C3'-C2'-C1'	5.57	105.96	101.50
1	AA	86	G	N1-C2-N3	5.57	127.24	123.90
1	AA	262	A	N7-C8-N9	-5.57	111.02	113.80
1	AA	368	U	N3-C4-O4	-5.57	115.50	119.40
1	AA	598	U	N3-C4-O4	5.57	123.30	119.40
1	AA	687	A	C4-C5-N7	-5.57	107.92	110.70
1	AA	1095	U	C4-C5-C6	5.57	123.04	119.70
1	AA	1290	G	O4'-C4'-C3'	-5.57	98.43	104.00
1	AA	1323	G	N9-C1'-C2'	-5.57	105.87	112.00
1	AA	1469	C	C1'-O4'-C4'	5.57	114.36	109.90
2	AB	2	G	O4'-C1'-N9	5.57	112.66	108.20
26	BB	155	A	C5-N7-C8	-5.57	101.11	103.90
26	BB	169	G	N3-C4-N9	5.57	129.34	126.00
26	BB	258	G	N9-C4-C5	5.57	107.63	105.40
26	BB	1060	U	C3'-C2'-C1'	5.57	105.96	101.50
26	BB	1813	G	N7-C8-N9	5.57	115.89	113.10
26	BB	2204	G	C5-N7-C8	-5.57	101.52	104.30
26	BB	2474	U	N3-C2-O2	-5.57	118.30	122.20
26	BB	2615	U	C2-N3-C4	-5.57	123.66	127.00
1	AA	733	G	P-O3'-C3'	5.57	126.38	119.70
26	BB	1558	C	O4'-C1'-N1	5.57	112.66	108.20
26	BB	1654	A	O5'-C5'-C4'	-5.57	101.12	111.70
1	AA	866	C	C1'-O4'-C4'	-5.57	105.45	109.90
1	AA	1316	G	C6-C5-N7	-5.57	127.06	130.40
1	AA	1371	G	N3-C2-N2	5.57	123.80	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1509	C	N1-C2-N3	5.57	123.10	119.20
1	AA	1524	C	P-O3'-C3'	5.57	126.38	119.70
25	BA	94	A	N1-C6-N6	-5.57	115.26	118.60
26	BB	347	A	P-O3'-C3'	5.57	126.38	119.70
26	BB	851	C	C6-N1-C1'	5.57	127.48	120.80
26	BB	965	C	C4'-C3'-C2'	-5.57	97.03	102.60
26	BB	1528	A	N9-C4-C5	5.57	108.03	105.80
26	BB	1885	A	C1'-O4'-C4'	-5.57	105.44	109.90
26	BB	2287	A	N3-C4-N9	-5.57	122.95	127.40
26	BB	2337	G	C5-C6-N1	5.57	114.28	111.50
26	BB	2374	C	O5'-P-OP2	-5.57	100.69	105.70
42	BR	69	VAL	CA-CB-CG1	5.57	119.25	110.90
1	AA	52	C	O4'-C4'-C3'	-5.57	98.43	104.00
1	AA	83	C	C4'-C3'-C2'	-5.57	97.03	102.60
1	AA	1119	C	C3'-C2'-C1'	5.57	105.95	101.50
1	AA	1502	A	C4'-C3'-C2'	-5.57	97.03	102.60
3	AC	57	C	C4'-C3'-C2'	-5.57	97.03	102.60
26	BB	1036	G	C2-N3-C4	5.57	114.68	111.90
26	BB	1187	G	O4'-C1'-N9	-5.57	103.75	108.20
26	BB	1324	G	N1-C6-O6	5.57	123.24	119.90
26	BB	1382	G	C4'-C3'-C2'	-5.57	97.03	102.60
26	BB	2032	G	C5'-C4'-C3'	-5.57	107.09	116.00
26	BB	2193	G	C5-N7-C8	5.57	107.08	104.30
26	BB	2299	U	C4'-C3'-C2'	-5.57	97.03	102.60
26	BB	2761	A	C4-C5-N7	-5.57	107.92	110.70
43	BS	10	ARG	NE-CZ-NH1	5.57	123.08	120.30
43	BS	44	TYR	CB-CG-CD2	5.57	124.34	121.00
1	AA	195	A	C4'-C3'-C2'	-5.56	97.04	102.60
1	AA	1459	G	C6-N1-C2	-5.56	121.76	125.10
4	AD	59	A	C4-C5-C6	5.56	119.78	117.00
26	BB	21	A	N1-C6-N6	5.56	121.94	118.60
26	BB	472	A	C8-N9-C4	-5.56	103.57	105.80
26	BB	614	A	C2-N3-C4	5.56	113.38	110.60
26	BB	1696	G	N3-C4-N9	-5.56	122.66	126.00
26	BB	2375	G	C4-C5-C6	5.56	122.14	118.80
26	BB	2387	U	N3-C4-O4	5.56	123.30	119.40
26	BB	2410	G	C2-N3-C4	5.56	114.68	111.90
1	AA	29	U	C4'-C3'-C2'	-5.56	97.04	102.60
1	AA	672	U	C5-C4-O4	5.56	129.24	125.90
1	AA	721	G	N3-C4-N9	-5.56	122.66	126.00
1	AA	841	C	C1'-O4'-C4'	5.56	114.35	109.90
26	BB	329	G	C5-N7-C8	-5.56	101.52	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	435	C	O4'-C4'-C3'	-5.56	98.44	104.00
26	BB	476	G	N3-C4-C5	-5.56	125.82	128.60
26	BB	529	A	P-O3'-C3'	5.56	126.37	119.70
26	BB	586	A	C4-C5-C6	5.56	119.78	117.00
26	BB	889	C	C5'-C4'-O4'	5.56	115.77	109.10
26	BB	1360	G	N1-C6-O6	-5.56	116.56	119.90
26	BB	1656	C	N3-C4-C5	-5.56	119.67	121.90
26	BB	1695	G	C6-N1-C2	-5.56	121.76	125.10
26	BB	2245	U	O4'-C4'-C3'	5.56	110.55	106.10
26	BB	2488	G	C4-C5-C6	5.56	122.14	118.80
26	BB	2709	G	C2-N3-C4	5.56	114.68	111.90
1	AA	37	U	P-O3'-C3'	5.56	126.37	119.70
1	AA	1296	C	C1'-O4'-C4'	-5.56	105.45	109.90
26	BB	606	U	O4'-C1'-N1	5.56	112.65	108.20
26	BB	881	G	C2-N3-C4	5.56	114.68	111.90
26	BB	929	U	C4'-C3'-C2'	-5.56	97.04	102.60
26	BB	2443	C	C5-C4-N4	-5.56	116.31	120.20
1	AA	150	U	N3-C4-C5	-5.56	111.26	114.60
1	AA	1252	A	C5-C6-N6	-5.56	119.25	123.70
1	AA	1260	G	N3-C2-N2	5.56	123.79	119.90
3	AC	51	C	C4-C5-C6	5.56	120.18	117.40
26	BB	54	G	C6-N1-C2	-5.56	121.77	125.10
26	BB	251	A	C4-C5-N7	-5.56	107.92	110.70
26	BB	501	A	N7-C8-N9	5.56	116.58	113.80
26	BB	873	C	C6-N1-C2	5.56	122.52	120.30
26	BB	897	C	C6-N1-C2	-5.56	118.08	120.30
26	BB	978	G	N1-C2-N3	5.56	127.24	123.90
26	BB	1138	G	C3'-C2'-C1'	5.56	105.95	101.50
26	BB	1659	G	N1-C2-N3	-5.56	120.56	123.90
26	BB	2161	C	C6-N1-C2	-5.56	118.08	120.30
26	BB	2307	G	N9-C4-C5	5.56	107.62	105.40
1	AA	423	G	C6-C5-N7	5.56	133.74	130.40
1	AA	447	G	C5-N7-C8	5.56	107.08	104.30
1	AA	506	G	C8-N9-C4	5.56	108.62	106.40
1	AA	779	C	N3-C4-C5	-5.56	119.68	121.90
1	AA	968	A	C4-C5-C6	-5.56	114.22	117.00
1	AA	1490	U	C5-C6-N1	-5.56	119.92	122.70
1	AA	1505	G	C1'-O4'-C4'	5.56	114.35	109.90
1	AA	1542	A	C5-C6-N6	-5.56	119.25	123.70
2	AB	24	G	C5-N7-C8	-5.56	101.52	104.30
26	BB	350	G	C5-C6-N1	5.56	114.28	111.50
26	BB	476	G	C5-N7-C8	-5.56	101.52	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	890	C	C5-C4-N4	5.56	124.09	120.20
26	BB	1480	C	C2-N3-C4	-5.56	117.12	119.90
26	BB	1519	G	C4-C5-C6	5.56	122.13	118.80
26	BB	1632	A	C5-C6-N1	5.56	120.48	117.70
26	BB	1671	U	C6-N1-C2	-5.56	117.67	121.00
26	BB	2521	C	C5-C6-N1	5.56	123.78	121.00
26	BB	2536	G	C8-N9-C4	-5.56	104.18	106.40
26	BB	2679	A	N9-C4-C5	5.56	108.02	105.80
26	BB	2693	G	C5-C6-N1	5.56	114.28	111.50
26	BB	2837	A	C4'-C3'-C2'	-5.56	97.04	102.60
26	BB	2894	G	N9-C4-C5	5.56	107.62	105.40
1	AA	119	A	C2-N3-C4	5.56	113.38	110.60
26	BB	92	U	C3'-C2'-C1'	5.56	105.94	101.50
26	BB	231	A	O5'-P-OP1	5.56	117.37	110.70
26	BB	778	G	N3-C2-N2	-5.56	116.01	119.90
26	BB	1052	C	O4'-C1'-N1	5.56	112.64	108.20
26	BB	1056	G	C4-C5-C6	5.56	122.13	118.80
26	BB	1557	C	C1'-O4'-C4'	5.56	114.34	109.90
26	BB	2071	A	N9-C4-C5	5.56	108.02	105.80
26	BB	2110	G	O4'-C1'-N9	5.56	112.64	108.20
26	BB	2303	G	C6-C5-N7	-5.56	127.07	130.40
26	BB	2604	U	N3-C4-O4	-5.56	115.51	119.40
56	B5	21	ARG	NE-CZ-NH1	-5.56	117.52	120.30
1	AA	52	C	C6-N1-C2	-5.55	118.08	120.30
1	AA	213	G	C4'-C3'-O3'	5.55	124.11	113.00
1	AA	510	A	C5'-C4'-O4'	5.55	115.77	109.10
1	AA	545	C	N3-C4-C5	-5.55	119.68	121.90
1	AA	1057	G	C5'-C4'-O4'	5.55	115.77	109.10
1	AA	1287	A	C4'-C3'-C2'	-5.55	97.05	102.60
18	AR	6	ALA	CB-CA-C	5.55	118.43	110.10
25	BA	44	G	O4'-C1'-N9	5.55	112.64	108.20
26	BB	278	A	C4'-C3'-C2'	5.55	108.15	102.60
26	BB	391	A	O4'-C1'-N9	5.55	112.64	108.20
26	BB	648	G	C5-C6-O6	-5.55	125.27	128.60
26	BB	1488	C	N3-C4-N4	5.55	121.89	118.00
26	BB	1853	A	O4'-C1'-N9	5.55	112.64	108.20
26	BB	2758	A	N3-C4-C5	5.55	130.69	126.80
30	BF	158	PHE	CB-CG-CD1	5.55	124.69	120.80
31	BG	54	ALA	N-CA-CB	-5.55	102.32	110.10
44	BT	92	TRP	CD1-CG-CD2	-5.55	101.86	106.30
50	BZ	17	ARG	NE-CZ-NH2	5.55	123.08	120.30
1	AA	377	G	O5'-P-OP2	-5.55	100.70	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	661	G	C5'-C4'-O4'	5.55	115.76	109.10
2	AB	48	U	C6-N1-C2	5.55	124.33	121.00
15	AO	24	GLU	OE1-CD-OE2	5.55	129.96	123.30
26	BB	295	G	N7-C8-N9	5.55	115.88	113.10
26	BB	506	G	O4'-C1'-N9	5.55	112.64	108.20
26	BB	865	C	N1-C2-N3	-5.55	115.31	119.20
26	BB	1190	G	N1-C6-O6	-5.55	116.57	119.90
26	BB	1307	A	N1-C6-N6	-5.55	115.27	118.60
26	BB	1395	A	C5-C6-N1	-5.55	114.92	117.70
26	BB	1448	G	C6-N1-C2	-5.55	121.77	125.10
26	BB	1949	G	C3'-C2'-C1'	-5.55	97.06	101.50
26	BB	2495	G	N9-C4-C5	-5.55	103.18	105.40
26	BB	2895	G	C5-N7-C8	-5.55	101.52	104.30
1	AA	1076	U	O4'-C1'-C2'	-5.55	100.25	105.80
1	AA	1147	C	N3-C4-N4	5.55	121.89	118.00
1	AA	1206	G	C1'-O4'-C4'	-5.55	105.46	109.90
1	AA	1235	U	N3-C4-C5	-5.55	111.27	114.60
1	AA	1322	C	C6-N1-C1'	5.55	127.46	120.80
26	BB	308	G	C5-C6-O6	5.55	131.93	128.60
26	BB	592	A	C2-N3-C4	5.55	113.38	110.60
26	BB	621	A	N1-C2-N3	-5.55	126.52	129.30
26	BB	639	U	N3-C4-C5	-5.55	111.27	114.60
26	BB	921	C	P-O3'-C3'	5.55	126.36	119.70
26	BB	2215	C	O4'-C4'-C3'	5.55	110.54	106.10
1	AA	88	U	C5-C6-N1	-5.55	119.92	122.70
1	AA	586	C	N1-C2-N3	-5.55	115.31	119.20
1	AA	710	G	N1-C2-N3	-5.55	120.57	123.90
1	AA	792	A	C2-N3-C4	-5.55	107.83	110.60
1	AA	813	U	N1-C2-N3	5.55	118.23	114.90
1	AA	937	A	C4'-C3'-C2'	-5.55	97.05	102.60
1	AA	1097	C	C6-N1-C2	-5.55	118.08	120.30
1	AA	1206	G	C6-N1-C2	-5.55	121.77	125.10
25	BA	119	A	C4'-C3'-C2'	-5.55	97.05	102.60
26	BB	383	C	C2-N3-C4	5.55	122.67	119.90
26	BB	408	G	C6-C5-N7	-5.55	127.07	130.40
26	BB	579	G	N1-C2-N2	5.55	121.19	116.20
26	BB	978	G	C4-C5-N7	-5.55	108.58	110.80
26	BB	988	A	N1-C2-N3	5.55	132.07	129.30
26	BB	1171	G	C4-C5-C6	5.55	122.13	118.80
26	BB	1276	A	C8-N9-C4	-5.55	103.58	105.80
26	BB	1279	G	C8-N9-C4	-5.55	104.18	106.40
26	BB	1355	G	P-O3'-C3'	5.55	126.36	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1880	U	N1-C2-O2	-5.55	118.92	122.80
26	BB	1933	G	N1-C2-N3	5.55	127.23	123.90
26	BB	2065	C	O4'-C1'-N1	5.55	112.64	108.20
26	BB	2174	C	C4'-C3'-C2'	-5.55	97.05	102.60
26	BB	2311	A	N9-C4-C5	5.55	108.02	105.80
26	BB	2325	G	C4-C5-C6	5.55	122.13	118.80
26	BB	2554	U	C4'-C3'-C2'	-5.55	97.05	102.60
51	B0	20	ASN	CB-CA-C	5.55	121.50	110.40
1	AA	188	C	C2-N1-C1'	5.55	124.90	118.80
26	BB	768	G	C6-N1-C2	-5.55	121.77	125.10
26	BB	2265	U	C4-C5-C6	5.55	123.03	119.70
26	BB	2265	U	N3-C4-O4	-5.55	115.52	119.40
26	BB	2290	G	C5-N7-C8	-5.55	101.53	104.30
1	AA	41	G	C6-N1-C2	-5.55	121.77	125.10
1	AA	55	A	C3'-C2'-C1'	5.55	105.94	101.50
1	AA	220	G	C1'-O4'-C4'	-5.55	105.46	109.90
1	AA	707	U	C6-N1-C2	-5.55	117.67	121.00
1	AA	946	A	C3'-C2'-C1'	5.55	105.94	101.50
1	AA	1119	C	C1'-O4'-C4'	-5.55	105.46	109.90
1	AA	1143	G	N1-C6-O6	-5.55	116.57	119.90
25	BA	50	A	C4-C5-C6	5.55	119.77	117.00
26	BB	627	A	OP2-P-O3'	5.55	117.40	105.20
26	BB	849	A	N1-C2-N3	-5.55	126.53	129.30
26	BB	2404	U	N3-C2-O2	-5.55	118.32	122.20
26	BB	2439	A	C3'-C2'-C1'	5.55	105.94	101.50
26	BB	2675	A	N9-C4-C5	5.55	108.02	105.80
29	BE	73	VAL	CA-CB-CG1	5.55	119.22	110.90
1	AA	212	G	C5-C6-N1	5.54	114.27	111.50
1	AA	326	G	O5'-P-OP1	-5.54	100.71	105.70
1	AA	1452	C	O4'-C1'-C2'	5.54	112.59	107.60
26	BB	2318	G	C6-N1-C2	-5.54	121.77	125.10
26	BB	2382	G	N3-C4-N9	-5.54	122.67	126.00
1	AA	324	G	C6-C5-N7	-5.54	127.07	130.40
1	AA	624	C	N3-C2-O2	-5.54	118.02	121.90
1	AA	963	G	C8-N9-C4	-5.54	104.18	106.40
1	AA	1356	G	N3-C4-N9	-5.54	122.67	126.00
4	AD	64	G	C5-N7-C8	5.54	107.07	104.30
26	BB	572	A	N1-C6-N6	-5.54	115.27	118.60
26	BB	691	C	N3-C4-N4	-5.54	114.12	118.00
26	BB	1021	A	C6-C5-N7	5.54	136.18	132.30
26	BB	1999	C	C5'-C4'-O4'	5.54	115.75	109.10
26	BB	2124	G	C4'-C3'-C2'	-5.54	97.06	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2447	G	N9-C4-C5	5.54	107.62	105.40
33	BI	51	ARG	NE-CZ-NH1	5.54	123.07	120.30
2	AB	40	C	C1'-O4'-C4'	-5.54	105.47	109.90
2	AB	57	G	C6-C5-N7	-5.54	127.08	130.40
26	BB	24	G	C5-N7-C8	-5.54	101.53	104.30
26	BB	24	G	N3-C4-C5	-5.54	125.83	128.60
26	BB	36	G	C4-N9-C1'	-5.54	119.30	126.50
26	BB	297	G	C6-N1-C2	-5.54	121.78	125.10
26	BB	434	U	C3'-C2'-C1'	-5.54	97.07	101.50
26	BB	1367	A	C5-C6-N6	5.54	128.13	123.70
26	BB	1657	U	C2-N3-C4	-5.54	123.67	127.00
26	BB	1935	G	C3'-C2'-C1'	5.54	105.93	101.50
26	BB	2242	G	C4-C5-C6	5.54	122.12	118.80
26	BB	2581	G	N9-C4-C5	-5.54	103.18	105.40
39	BO	81	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	AA	226	G	C4'-C3'-C2'	5.54	108.14	102.60
26	BB	36	G	C5-N7-C8	-5.54	101.53	104.30
26	BB	531	C	N1-C1'-C2'	5.54	121.20	114.00
26	BB	1034	G	N1-C2-N2	-5.54	111.21	116.20
26	BB	2168	G	C8-N9-C1'	5.54	134.20	127.00
26	BB	2304	G	C8-N9-C4	-5.54	104.18	106.40
26	BB	2345	G	N9-C4-C5	5.54	107.62	105.40
26	BB	2541	A	C5-N7-C8	5.54	106.67	103.90
26	BB	2826	A	C2-N3-C4	5.54	113.37	110.60
1	AA	286	C	C5'-C4'-O4'	5.54	115.75	109.10
1	AA	576	C	N1-C2-O2	5.54	122.22	118.90
1	AA	833	G	C8-N9-C1'	5.54	134.20	127.00
1	AA	1104	G	C5-C6-N1	5.54	114.27	111.50
1	AA	1249	C	P-O3'-C3'	5.54	126.35	119.70
1	AA	1255	G	C3'-C2'-C1'	5.54	105.93	101.50
1	AA	1423	G	N7-C8-N9	5.54	115.87	113.10
2	AB	49	G	C4'-C3'-C2'	-5.54	97.06	102.60
4	AD	46	G	N3-C2-N2	-5.54	116.02	119.90
22	AV	40	PHE	CB-CG-CD2	5.54	124.68	120.80
26	BB	27	G	O4'-C1'-N9	5.54	112.63	108.20
26	BB	177	G	N3-C2-N2	5.54	123.78	119.90
26	BB	302	C	C2-N1-C1'	-5.54	112.71	118.80
26	BB	374	A	O4'-C1'-N9	5.54	112.63	108.20
26	BB	778	G	C1'-O4'-C4'	5.54	114.33	109.90
26	BB	917	A	C3'-C2'-C1'	5.54	105.93	101.50
26	BB	1040	A	N1-C2-N3	5.54	132.07	129.30
26	BB	1195	G	C4'-C3'-C2'	-5.54	97.06	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1614	A	N9-C4-C5	5.54	108.02	105.80
26	BB	1781	U	O4'-C1'-N1	5.54	112.63	108.20
26	BB	2623	G	N1-C2-N2	5.54	121.19	116.20
33	BI	23	ALA	N-CA-CB	-5.54	102.35	110.10
1	AA	514	C	C4'-C3'-O3'	5.54	124.07	113.00
1	AA	1156	G	C8-N9-C4	-5.54	104.19	106.40
1	AA	1248	A	N1-C6-N6	5.54	121.92	118.60
4	AD	51	U	C5'-C4'-O4'	5.54	115.74	109.10
25	BA	66	A	C5'-C4'-O4'	5.54	115.75	109.10
25	BA	96	G	N1-C2-N3	5.54	127.22	123.90
26	BB	103	A	N1-C6-N6	-5.54	115.28	118.60
26	BB	599	A	C1'-O4'-C4'	-5.54	105.47	109.90
26	BB	975	A	P-O3'-C3'	5.54	126.34	119.70
26	BB	1054	A	C4-C5-C6	5.54	119.77	117.00
26	BB	1414	C	N1-C2-O2	5.54	122.22	118.90
26	BB	1896	G	O4'-C1'-C2'	-5.54	100.26	105.80
26	BB	2514	U	N3-C4-O4	5.54	123.28	119.40
26	BB	2526	G	N1-C2-N3	-5.54	120.58	123.90
26	BB	2608	G	C4'-C3'-C2'	-5.54	97.06	102.60
1	AA	294	U	N3-C2-O2	-5.54	118.33	122.20
1	AA	440	C	C4-C5-C6	-5.54	114.63	117.40
1	AA	767	A	C3'-C2'-C1'	5.54	105.93	101.50
1	AA	815	A	C6-N1-C2	-5.54	115.28	118.60
1	AA	891	U	N1-C2-N3	5.54	118.22	114.90
1	AA	1246	A	N3-C4-C5	-5.54	122.92	126.80
9	AI	42	TRP	CE3-CZ3-CH2	-5.54	115.11	121.20
25	BA	1	U	P-O3'-C3'	5.54	126.34	119.70
25	BA	103	U	C5'-C4'-O4'	5.54	115.74	109.10
26	BB	118	A	C2-N3-C4	5.54	113.37	110.60
26	BB	398	C	N3-C2-O2	-5.54	118.03	121.90
26	BB	1127	A	N1-C2-N3	-5.54	126.53	129.30
26	BB	1635	A	C2-N3-C4	5.54	113.37	110.60
26	BB	2209	G	C8-N9-C4	5.54	108.61	106.40
26	BB	2664	G	N1-C6-O6	-5.54	116.58	119.90
26	BB	2714	G	C2-N3-C4	5.54	114.67	111.90
28	BD	99	GLU	OE1-CD-OE2	5.54	129.94	123.30
1	AA	98	A	C6-C5-N7	5.53	136.17	132.30
1	AA	457	G	N9-C1'-C2'	-5.53	105.91	112.00
1	AA	558	G	N9-C4-C5	-5.53	103.19	105.40
1	AA	1171	A	N7-C8-N9	-5.53	111.03	113.80
1	AA	1505	G	C6-N1-C2	5.53	128.42	125.10
26	BB	346	A	C5'-C4'-O4'	5.53	115.74	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	672	C	C5-C6-N1	-5.53	118.23	121.00
26	BB	729	G	N7-C8-N9	-5.53	110.33	113.10
26	BB	991	C	N3-C4-N4	5.53	121.87	118.00
26	BB	1301	A	P-O3'-C3'	5.53	126.34	119.70
26	BB	1697	G	C6-C5-N7	5.53	133.72	130.40
26	BB	1753	G	P-O3'-C3'	5.53	126.34	119.70
26	BB	2566	A	C5'-C4'-O4'	5.53	115.74	109.10
31	BG	142	TYR	CZ-CE2-CD2	5.53	124.78	119.80
58	B7	22	VAL	CA-CB-CG1	5.53	119.20	110.90
1	AA	939	G	C5-C6-O6	5.53	131.92	128.60
1	AA	1469	C	C5'-C4'-C3'	5.53	124.85	116.00
26	BB	1288	G	C6-C5-N7	-5.53	127.08	130.40
26	BB	1765	U	OP2-P-O3'	5.53	117.37	105.20
1	AA	236	A	N1-C2-N3	-5.53	126.53	129.30
1	AA	1488	G	C4-N9-C1'	-5.53	119.31	126.50
1	AA	1536	C	C3'-C2'-C1'	5.53	105.92	101.50
23	AW	24	ARG	NE-CZ-NH1	5.53	123.06	120.30
26	BB	37	C	N1-C1'-C2'	-5.53	105.92	112.00
26	BB	96	C	C2-N3-C4	5.53	122.67	119.90
26	BB	159	G	N3-C2-N2	5.53	123.77	119.90
26	BB	223	A	O5'-C5'-C4'	-5.53	101.19	111.70
26	BB	288	U	O4'-C1'-N1	5.53	112.62	108.20
26	BB	1427	A	C3'-C2'-C1'	-5.53	97.08	101.50
26	BB	1449	G	N7-C8-N9	5.53	115.86	113.10
26	BB	1563	U	C4'-C3'-C2'	-5.53	97.07	102.60
26	BB	1861	G	N1-C6-O6	5.53	123.22	119.90
26	BB	2040	G	C6-N1-C2	-5.53	121.78	125.10
26	BB	2313	C	C5'-C4'-C3'	-5.53	107.15	116.00
26	BB	2351	G	C5'-C4'-O4'	5.53	115.73	109.10
26	BB	2563	U	C6-N1-C2	-5.53	117.68	121.00
26	BB	2707	U	C4-C5-C6	5.53	123.02	119.70
26	BB	2882	A	P-O3'-C3'	5.53	126.34	119.70
1	AA	47	C	N3-C2-O2	-5.53	118.03	121.90
1	AA	634	C	O5'-P-OP1	-5.53	100.72	105.70
1	AA	681	A	C1'-O4'-C4'	-5.53	105.48	109.90
1	AA	836	G	N9-C4-C5	-5.53	103.19	105.40
1	AA	882	C	C6-N1-C2	-5.53	118.09	120.30
1	AA	893	C	N3-C4-C5	5.53	124.11	121.90
1	AA	1270	G	N3-C2-N2	5.53	123.77	119.90
3	AC	18	A	C6-C5-N7	-5.53	128.43	132.30
26	BB	829	A	N1-C2-N3	-5.53	126.54	129.30
26	BB	983	A	N3-C4-N9	5.53	131.82	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2148	G	P-O3'-C3'	5.53	126.33	119.70
26	BB	2557	G	C4-C5-N7	5.53	113.01	110.80
1	AA	228	A	N3-C4-N9	5.53	131.82	127.40
1	AA	278	G	N7-C8-N9	5.53	115.86	113.10
1	AA	554	A	O4'-C1'-N9	5.53	112.62	108.20
1	AA	1019	A	C8-N9-C4	-5.53	103.59	105.80
1	AA	1082	A	N3-C4-C5	-5.53	122.93	126.80
1	AA	1467	C	C2-N3-C4	-5.53	117.14	119.90
1	AA	1487	G	N3-C2-N2	5.53	123.77	119.90
25	BA	120	U	C1'-O4'-C4'	-5.53	105.48	109.90
26	BB	287	G	N1-C2-N2	5.53	121.17	116.20
26	BB	805	G	N7-C8-N9	5.53	115.86	113.10
26	BB	1101	U	N1-C2-O2	5.53	126.67	122.80
26	BB	1397	U	N3-C4-O4	5.53	123.27	119.40
26	BB	1753	G	C6-C5-N7	-5.53	127.08	130.40
26	BB	1868	C	N3-C4-N4	-5.53	114.13	118.00
26	BB	2676	C	O4'-C1'-N1	5.53	112.62	108.20
28	BD	95	TYR	CB-CG-CD2	-5.53	117.68	121.00
28	BD	245	THR	CA-CB-CG2	5.53	120.14	112.40
1	AA	183	C	C2-N1-C1'	-5.53	112.72	118.80
1	AA	213	G	C6-N1-C2	-5.53	121.78	125.10
1	AA	1063	C	N1-C2-O2	5.53	122.22	118.90
1	AA	1406	U	N3-C4-C5	-5.53	111.28	114.60
3	AC	36	U	C2-N3-C4	-5.53	123.69	127.00
11	AK	85	TYR	CB-CG-CD2	5.53	124.31	121.00
26	BB	161	A	C8-N9-C4	5.53	108.01	105.80
26	BB	242	G	C2-N3-C4	5.53	114.66	111.90
26	BB	473	G	N9-C1'-C2'	5.53	121.18	114.00
26	BB	935	C	C4-C5-C6	5.53	120.16	117.40
26	BB	1497	U	O5'-C5'-C4'	5.53	122.20	111.70
26	BB	1560	G	N3-C2-N2	5.53	123.77	119.90
26	BB	1581	G	N1-C2-N3	-5.53	120.58	123.90
26	BB	2266	A	C4'-C3'-C2'	-5.53	97.08	102.60
26	BB	2350	C	C5'-C4'-C3'	-5.53	107.16	116.00
40	BP	47	VAL	CA-CB-CG1	5.53	119.19	110.90
1	AA	1052	U	C2-N3-C4	-5.52	123.69	127.00
1	AA	1292	G	N3-C4-N9	5.52	129.31	126.00
26	BB	24	G	N9-C4-C5	5.52	107.61	105.40
26	BB	558	U	C2-N3-C4	-5.52	123.69	127.00
26	BB	563	A	N1-C2-N3	5.52	132.06	129.30
26	BB	704	G	N1-C6-O6	5.52	123.21	119.90
26	BB	1476	U	C5-C6-N1	5.52	125.46	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1601	G	C4-C5-N7	5.52	113.01	110.80
26	BB	2049	G	N3-C2-N2	5.52	123.77	119.90
26	BB	2515	C	N3-C4-C5	-5.52	119.69	121.90
1	AA	99	C	C4-C5-C6	-5.52	114.64	117.40
1	AA	311	C	N3-C4-C5	5.52	124.11	121.90
1	AA	345	C	O5'-P-OP1	-5.52	100.73	105.70
1	AA	383	A	N3-C4-C5	-5.52	122.94	126.80
1	AA	521	G	C6-C5-N7	-5.52	127.09	130.40
1	AA	634	C	O3'-P-O5'	-5.52	93.51	104.00
1	AA	687	A	N7-C8-N9	5.52	116.56	113.80
1	AA	858	G	C5-C6-N1	-5.52	108.74	111.50
1	AA	1098	C	C5-C4-N4	-5.52	116.33	120.20
10	AJ	63	VAL	CA-CB-CG1	5.52	119.18	110.90
26	BB	6	A	C5-C6-N1	5.52	120.46	117.70
26	BB	225	C	N1-C2-O2	5.52	122.21	118.90
26	BB	344	A	C8-N9-C4	-5.52	103.59	105.80
26	BB	515	A	C5-C6-N6	-5.52	119.28	123.70
26	BB	716	A	N1-C6-N6	-5.52	115.29	118.60
26	BB	820	A	C1'-O4'-C4'	5.52	114.32	109.90
26	BB	947	A	C5-C6-N6	5.52	128.12	123.70
26	BB	1462	C	C6-N1-C1'	5.52	127.43	120.80
26	BB	1690	A	C8-N9-C4	-5.52	103.59	105.80
26	BB	1715	G	C4-C5-C6	5.52	122.11	118.80
26	BB	1718	G	N1-C2-N2	5.52	121.17	116.20
26	BB	1921	G	N9-C4-C5	-5.52	103.19	105.40
26	BB	2477	U	N3-C2-O2	-5.52	118.33	122.20
26	BB	2488	G	C5'-C4'-C3'	-5.52	107.16	116.00
1	AA	1031	C	O4'-C1'-C2'	-5.52	100.28	105.80
1	AA	1061	G	C4-C5-N7	-5.52	108.59	110.80
26	BB	1199	U	C5'-C4'-C3'	-5.52	107.17	116.00
26	BB	1291	C	N3-C4-N4	5.52	121.86	118.00
26	BB	1297	C	O5'-P-OP2	-5.52	100.73	105.70
26	BB	1648	U	O4'-C1'-N1	5.52	112.62	108.20
26	BB	2510	C	O4'-C1'-N1	5.52	112.62	108.20
1	AA	805	C	N3-C4-N4	5.52	121.86	118.00
1	AA	934	C	C1'-O4'-C4'	-5.52	105.48	109.90
1	AA	1203	C	C5-C4-N4	-5.52	116.34	120.20
1	AA	1364	U	C4-C5-C6	5.52	123.01	119.70
1	AA	1442	G	N3-C2-N2	5.52	123.76	119.90
1	AA	1465	A	N9-C1'-C2'	-5.52	105.93	112.00
1	AA	1490	U	N3-C4-C5	-5.52	111.29	114.60
2	AB	7	G	C5-C6-O6	-5.52	125.29	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	19	G	C8-N9-C1'	5.52	134.17	127.00
26	BB	80	G	N7-C8-N9	5.52	115.86	113.10
26	BB	740	C	N3-C4-N4	-5.52	114.14	118.00
26	BB	979	A	N9-C4-C5	5.52	108.01	105.80
26	BB	1106	G	C5'-C4'-O4'	5.52	115.72	109.10
26	BB	1517	G	C3'-C2'-C1'	5.52	105.92	101.50
26	BB	2529	G	C1'-O4'-C4'	5.52	114.31	109.90
1	AA	419	C	C6-N1-C2	-5.52	118.09	120.30
1	AA	646	G	O4'-C1'-C2'	-5.52	100.28	105.80
1	AA	1292	G	N9-C4-C5	-5.52	103.19	105.40
7	AG	119	HIS	C-N-CA	5.52	135.49	121.70
12	AL	6	TYR	CZ-CE2-CD2	5.52	124.77	119.80
25	BA	29	A	O4'-C1'-C2'	-5.52	100.28	105.80
26	BB	390	U	N3-C4-O4	5.52	123.26	119.40
26	BB	564	C	C6-N1-C2	5.52	122.51	120.30
26	BB	578	G	O3'-P-O5'	-5.52	93.52	104.00
26	BB	723	C	O4'-C1'-N1	5.52	112.61	108.20
26	BB	841	G	N3-C4-C5	-5.52	125.84	128.60
26	BB	950	G	N3-C4-C5	-5.52	125.84	128.60
26	BB	1146	C	C2-N3-C4	5.52	122.66	119.90
26	BB	1179	G	N1-C2-N3	-5.52	120.59	123.90
26	BB	1192	G	C4'-C3'-C2'	-5.52	97.08	102.60
26	BB	1381	G	C2-N3-C4	5.52	114.66	111.90
26	BB	1532	A	N1-C2-N3	-5.52	126.54	129.30
26	BB	1544	A	P-O5'-C5'	5.52	129.73	120.90
26	BB	2108	A	N3-C4-C5	-5.52	122.94	126.80
26	BB	2234	G	N1-C2-N3	-5.52	120.59	123.90
26	BB	2288	A	N7-C8-N9	5.52	116.56	113.80
1	AA	575	G	C5'-C4'-C3'	-5.52	107.17	116.00
1	AA	1234	C	C4'-C3'-C2'	-5.52	97.08	102.60
1	AA	1386	G	N1-C6-O6	-5.52	116.59	119.90
1	AA	1447	A	C4-C5-N7	-5.52	107.94	110.70
26	BB	220	G	N3-C2-N2	-5.52	116.04	119.90
26	BB	576	U	C5'-C4'-O4'	5.52	115.72	109.10
26	BB	1520	U	C5-C6-N1	5.52	125.46	122.70
26	BB	1606	C	O4'-C1'-N1	5.52	112.61	108.20
26	BB	1988	G	C1'-O4'-C4'	-5.52	105.49	109.90
26	BB	2197	U	C3'-C2'-C1'	5.52	105.91	101.50
26	BB	2363	G	C6-N1-C2	5.52	128.41	125.10
1	AA	10	A	N9-C1'-C2'	-5.51	105.94	112.00
1	AA	89	U	C2-N3-C4	-5.51	123.69	127.00
1	AA	619	U	C2-N3-C4	-5.51	123.69	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1523	G	N1-C6-O6	5.51	123.21	119.90
4	AD	22	A	N3-C4-C5	5.51	130.66	126.80
4	AD	38	A	O5'-C5'-C4'	5.51	122.18	111.70
23	AW	27	MET	CA-CB-CG	5.51	122.68	113.30
25	BA	10	G	C5'-C4'-C3'	-5.51	107.18	116.00
25	BA	69	G	C6-C5-N7	5.51	133.71	130.40
25	BA	114	C	C2-N3-C4	5.51	122.66	119.90
26	BB	71	A	C5-N7-C8	-5.51	101.14	103.90
26	BB	73	A	P-O3'-C3'	5.51	126.32	119.70
26	BB	77	G	C2-N3-C4	-5.51	109.14	111.90
26	BB	317	G	C5-C6-O6	5.51	131.91	128.60
26	BB	721	A	C3'-C2'-C1'	-5.51	97.09	101.50
26	BB	925	A	N1-C6-N6	5.51	121.91	118.60
26	BB	1443	U	O4'-C4'-C3'	-5.51	98.48	104.00
26	BB	1531	C	C3'-C2'-C1'	5.51	105.91	101.50
26	BB	1687	G	N7-C8-N9	5.51	115.86	113.10
26	BB	2039	U	C1'-O4'-C4'	-5.51	105.49	109.90
26	BB	2638	G	N9-C4-C5	5.51	107.61	105.40
1	AA	267	C	N1-C2-O2	5.51	122.21	118.90
1	AA	913	A	N3-C4-N9	-5.51	122.99	127.40
1	AA	1190	G	C6-N1-C2	-5.51	121.79	125.10
1	AA	1481	U	P-O3'-C3'	5.51	126.32	119.70
10	AJ	69	ARG	NE-CZ-NH2	5.51	123.06	120.30
26	BB	1312	U	C5'-C4'-O4'	-5.51	102.48	109.10
26	BB	1375	U	N1-C2-N3	5.51	118.21	114.90
26	BB	2764	A	O4'-C4'-C3'	5.51	110.51	106.10
26	BB	2804	U	C2-N3-C4	-5.51	123.69	127.00
29	BE	39	ASP	N-CA-CB	-5.51	100.68	110.60
30	BF	35	TYR	CB-CG-CD1	-5.51	117.69	121.00
1	AA	92	U	N3-C4-O4	5.51	123.26	119.40
1	AA	278	G	N3-C2-N2	5.51	123.76	119.90
1	AA	552	U	N1-C2-O2	5.51	126.66	122.80
1	AA	614	C	C6-N1-C2	-5.51	118.09	120.30
1	AA	626	G	C5-C6-N1	5.51	114.26	111.50
1	AA	698	G	C5-N7-C8	5.51	107.06	104.30
1	AA	865	A	C6-C5-N7	5.51	136.16	132.30
1	AA	1109	C	C5-C4-N4	-5.51	116.34	120.20
1	AA	1254	A	C4-C5-C6	-5.51	114.24	117.00
1	AA	1471	U	C2-N3-C4	-5.51	123.69	127.00
4	AD	53	G	C4'-C3'-C2'	-5.51	97.09	102.60
26	BB	75	G	N7-C8-N9	-5.51	110.34	113.10
26	BB	326	G	C6-N1-C2	-5.51	121.79	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	418	C	C5'-C4'-O4'	5.51	115.72	109.10
26	BB	999	U	C6-N1-C2	5.51	124.31	121.00
26	BB	1447	C	C1'-O4'-C4'	5.51	114.31	109.90
26	BB	1532	A	OP1-P-OP2	-5.51	111.33	119.60
26	BB	1674	G	O4'-C1'-N9	5.51	112.61	108.20
26	BB	1888	G	C5-C6-O6	5.51	131.91	128.60
26	BB	2344	U	N3-C4-O4	-5.51	115.54	119.40
26	BB	2376	A	C4-C5-C6	-5.51	114.24	117.00
26	BB	2773	C	N3-C4-N4	-5.51	114.14	118.00
26	BB	2868	A	N9-C4-C5	-5.51	103.59	105.80
1	AA	19	A	C1'-O4'-C4'	-5.51	105.49	109.90
1	AA	496	A	C5-N7-C8	5.51	106.66	103.90
1	AA	665	A	C4'-C3'-C2'	-5.51	97.09	102.60
1	AA	785	G	C4-C5-C6	5.51	122.11	118.80
1	AA	905	U	C1'-O4'-C4'	-5.51	105.49	109.90
1	AA	1542	A	C4-C5-C6	5.51	119.75	117.00
25	BA	27	C	C6-N1-C2	-5.51	118.10	120.30
26	BB	430	A	O4'-C1'-C2'	5.51	112.56	107.60
26	BB	493	G	C6-N1-C2	-5.51	121.80	125.10
26	BB	864	G	C5-N7-C8	-5.51	101.55	104.30
26	BB	1376	C	C1'-O4'-C4'	-5.51	105.49	109.90
26	BB	1527	G	N1-C6-O6	-5.51	116.59	119.90
26	BB	1889	A	C5-N7-C8	5.51	106.66	103.90
26	BB	2528	U	N3-C4-C5	-5.51	111.29	114.60
26	BB	2551	C	N3-C2-O2	-5.51	118.04	121.90
26	BB	2873	A	C2-N3-C4	-5.51	107.84	110.60
31	BG	50	ASP	CB-CG-OD1	-5.51	113.34	118.30
1	AA	605	U	C1'-O4'-C4'	5.51	114.31	109.90
1	AA	1112	C	N3-C4-N4	5.51	121.86	118.00
1	AA	1491	G	C4-C5-N7	5.51	113.00	110.80
26	BB	642	U	P-O3'-C3'	5.51	126.31	119.70
26	BB	1224	U	C2-N3-C4	-5.51	123.69	127.00
26	BB	1302	A	C4-C5-C6	-5.51	114.25	117.00
26	BB	1702	G	N9-C4-C5	5.51	107.60	105.40
1	AA	264	C	C2-N3-C4	5.51	122.65	119.90
1	AA	289	G	N3-C2-N2	-5.51	116.05	119.90
1	AA	398	U	C5-C4-O4	-5.51	122.60	125.90
1	AA	445	G	N9-C4-C5	5.51	107.60	105.40
1	AA	508	U	C5'-C4'-O4'	5.51	115.71	109.10
1	AA	1045	C	O3'-P-O5'	5.51	114.46	104.00
2	AB	64	U	N3-C2-O2	-5.51	118.34	122.20
16	AP	105	ALA	N-CA-CB	-5.51	102.39	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	382	A	N9-C4-C5	5.51	108.00	105.80
26	BB	470	A	N1-C2-N3	-5.51	126.55	129.30
26	BB	545	U	C1'-O4'-C4'	-5.51	105.50	109.90
26	BB	574	A	C2-N3-C4	5.51	113.35	110.60
26	BB	577	G	C4-C5-C6	5.51	122.10	118.80
26	BB	668	A	C4'-C3'-C2'	-5.51	97.09	102.60
26	BB	677	A	C5-C6-N6	-5.51	119.30	123.70
26	BB	704	G	C4-C5-C6	5.51	122.10	118.80
26	BB	775	G	C5-C6-N1	5.51	114.25	111.50
26	BB	1028	A	C5-C6-N6	-5.51	119.29	123.70
26	BB	1506	U	C3'-C2'-C1'	5.51	105.91	101.50
26	BB	1558	C	N3-C4-N4	5.51	121.85	118.00
26	BB	1707	G	C4-C5-N7	-5.51	108.60	110.80
26	BB	1891	G	C4-C5-N7	-5.51	108.60	110.80
26	BB	2450	A	O4'-C1'-C2'	-5.51	100.29	105.80
26	BB	2729	G	C1'-O4'-C4'	5.51	114.31	109.90
26	BB	2826	A	C8-N9-C4	-5.51	103.60	105.80
26	BB	2889	C	N3-C4-N4	5.51	121.85	118.00
1	AA	1214	C	N1-C1'-C2'	5.50	121.16	114.00
26	BB	147	C	N3-C4-N4	5.50	121.85	118.00
26	BB	151	C	P-O3'-C3'	5.50	126.31	119.70
26	BB	696	G	N9-C4-C5	-5.50	103.20	105.40
26	BB	971	G	O4'-C1'-N9	5.50	112.60	108.20
26	BB	1079	C	C4'-C3'-C2'	-5.50	97.09	102.60
26	BB	1942	C	N1-C2-O2	5.50	122.20	118.90
26	BB	2323	G	C3'-C2'-C1'	5.50	105.90	101.50
26	BB	2338	C	C4'-C3'-C2'	-5.50	97.09	102.60
1	AA	101	A	N1-C2-N3	-5.50	126.55	129.30
1	AA	175	C	C4-C5-C6	5.50	120.15	117.40
1	AA	208	U	O4'-C1'-C2'	5.50	112.55	107.60
1	AA	394	G	C2-N3-C4	5.50	114.65	111.90
1	AA	529	G	C5'-C4'-C3'	-5.50	107.19	116.00
1	AA	555	U	N1-C1'-C2'	-5.50	105.94	112.00
1	AA	597	G	N3-C4-C5	-5.50	125.85	128.60
1	AA	835	U	N3-C4-O4	-5.50	115.55	119.40
1	AA	845	A	C5'-C4'-O4'	-5.50	102.50	109.10
1	AA	861	G	C4-C5-N7	5.50	113.00	110.80
1	AA	1104	G	O4'-C4'-C3'	-5.50	98.50	104.00
1	AA	1145	A	N1-C6-N6	-5.50	115.30	118.60
3	AC	29	G	C4-C5-N7	-5.50	108.60	110.80
26	BB	101	A	C8-N9-C4	-5.50	103.60	105.80
26	BB	203	A	P-O3'-C3'	5.50	126.31	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	701	G	N3-C4-N9	5.50	129.30	126.00
26	BB	760	G	O4'-C1'-C2'	5.50	112.55	107.60
26	BB	769	U	C2-N3-C4	-5.50	123.70	127.00
26	BB	1022	G	C3'-C2'-C1'	-5.50	97.10	101.50
26	BB	1634	A	C5'-C4'-C3'	-5.50	107.19	116.00
26	BB	2034	U	C5-C6-N1	-5.50	119.95	122.70
26	BB	2098	U	N1-C2-O2	-5.50	118.95	122.80
26	BB	2447	G	C4'-C3'-C2'	-5.50	97.10	102.60
26	BB	2528	U	N3-C4-O4	5.50	123.25	119.40
26	BB	2825	G	C4'-C3'-C2'	-5.50	97.10	102.60
1	AA	83	C	C6-N1-C2	5.50	122.50	120.30
1	AA	263	A	C4-C5-N7	-5.50	107.95	110.70
1	AA	740	U	C4'-C3'-C2'	-5.50	97.10	102.60
1	AA	1060	U	N1-C2-N3	5.50	118.20	114.90
1	AA	1176	A	C6-N1-C2	-5.50	115.30	118.60
3	AC	50	U	C2-N3-C4	5.50	130.30	127.00
26	BB	26	G	C2'-C3'-O3'	5.50	122.50	113.70
26	BB	198	C	N1-C2-N3	-5.50	115.35	119.20
26	BB	357	C	N1-C2-O2	5.50	122.20	118.90
26	BB	2156	G	P-O3'-C3'	5.50	126.30	119.70
26	BB	2186	G	N3-C4-N9	-5.50	122.70	126.00
26	BB	2751	G	C2-N3-C4	-5.50	109.15	111.90
1	AA	712	A	N1-C6-N6	5.50	121.90	118.60
1	AA	868	C	N1-C2-O2	5.50	122.20	118.90
1	AA	1141	C	O4'-C1'-N1	5.50	112.60	108.20
1	AA	1510	C	N3-C2-O2	-5.50	118.05	121.90
1	AA	1529	G	N3-C4-N9	5.50	129.30	126.00
22	AV	60	PHE	CB-CG-CD2	-5.50	116.95	120.80
25	BA	118	C	C6-N1-C2	5.50	122.50	120.30
26	BB	401	A	C5'-C4'-O4'	5.50	115.70	109.10
26	BB	498	G	O4'-C1'-N9	5.50	112.60	108.20
26	BB	1256	G	C4-C5-C6	5.50	122.10	118.80
26	BB	1488	C	O4'-C1'-N1	5.50	112.60	108.20
26	BB	2148	G	C4'-C3'-C2'	-5.50	97.10	102.60
1	AA	18	C	C5-C4-N4	-5.50	116.35	120.20
1	AA	150	U	O5'-C5'-C4'	-5.50	101.25	111.70
4	AD	16	C	C4'-C3'-C2'	-5.50	97.10	102.60
26	BB	102	U	C1'-O4'-C4'	-5.50	105.50	109.90
26	BB	305	C	N1-C2-O2	5.50	122.20	118.90
26	BB	579	G	N9-C1'-C2'	-5.50	105.95	112.00
26	BB	1345	C	C5-C6-N1	5.50	123.75	121.00
26	BB	1365	A	C1'-O4'-C4'	-5.50	105.50	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1389	G	N1-C2-N2	5.50	121.15	116.20
26	BB	1829	A	O5'-P-OP1	-5.50	100.75	105.70
26	BB	1910	G	N1-C6-O6	5.50	123.20	119.90
26	BB	2028	U	O4'-C4'-C3'	-5.50	98.50	104.00
26	BB	2050	C	O4'-C1'-N1	5.50	112.60	108.20
26	BB	2374	C	N1-C1'-C2'	-5.50	105.95	112.00
26	BB	2456	C	N1-C2-O2	5.50	122.20	118.90
1	AA	654	G	C2-N3-C4	5.50	114.65	111.90
1	AA	1026	G	N9-C1'-C2'	-5.50	105.95	112.00
1	AA	1235	U	C2-N3-C4	-5.50	123.70	127.00
1	AA	1356	G	O4'-C4'-C3'	5.50	110.50	106.10
3	AC	19	A	C3'-C2'-C1'	-5.50	97.10	101.50
26	BB	46	G	N7-C8-N9	5.50	115.85	113.10
26	BB	392	U	C6-N1-C2	-5.50	117.70	121.00
26	BB	866	A	C2-N3-C4	5.50	113.35	110.60
26	BB	900	A	N7-C8-N9	-5.50	111.05	113.80
26	BB	1707	G	C5-N7-C8	5.50	107.05	104.30
26	BB	2281	A	N7-C8-N9	-5.50	111.05	113.80
26	BB	2409	G	C6-N1-C2	-5.50	121.80	125.10
26	BB	2798	U	O5'-P-OP1	-5.50	100.75	105.70
31	BG	69	ALA	N-CA-CB	5.50	117.80	110.10
1	AA	573	A	C4-C5-N7	-5.50	107.95	110.70
1	AA	608	A	C1'-O4'-C4'	5.50	114.30	109.90
1	AA	1506	U	O4'-C1'-C2'	-5.50	100.31	105.80
1	AA	1524	C	C6-N1-C1'	5.50	127.39	120.80
26	BB	470	A	C5'-C4'-C3'	-5.50	107.21	116.00
26	BB	1090	A	C1'-O4'-C4'	5.50	114.30	109.90
26	BB	2579	C	C1'-O4'-C4'	-5.50	105.50	109.90
37	BM	35	VAL	C-N-CA	5.50	133.84	122.30
1	AA	416	G	N7-C8-N9	5.49	115.85	113.10
1	AA	542	G	N3-C4-C5	-5.49	125.85	128.60
1	AA	1287	A	N7-C8-N9	5.49	116.55	113.80
1	AA	1421	G	N7-C8-N9	5.49	115.85	113.10
25	BA	44	G	C8-N9-C1'	5.49	134.14	127.00
26	BB	108	G	C1'-O4'-C4'	-5.49	105.50	109.90
26	BB	369	U	P-O3'-C3'	5.49	126.29	119.70
26	BB	648	G	N3-C2-N2	-5.49	116.05	119.90
26	BB	785	G	C5'-C4'-O4'	5.49	115.69	109.10
26	BB	861	A	N9-C1'-C2'	-5.49	105.96	112.00
26	BB	2025	C	C5'-C4'-O4'	5.49	115.69	109.10
37	BM	3	GLN	N-CA-CB	-5.49	100.71	110.60
1	AA	220	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	613	C	N3-C4-C5	-5.49	119.70	121.90
1	AA	1001	C	C5'-C4'-C3'	-5.49	107.21	116.00
1	AA	1089	G	C8-N9-C4	-5.49	104.20	106.40
2	AB	44	G	C6-N1-C2	-5.49	121.81	125.10
7	AG	6	PRO	N-CA-CB	5.49	109.89	103.30
26	BB	92	U	C2-N1-C1'	5.49	124.29	117.70
26	BB	1521	G	N3-C2-N2	-5.49	116.06	119.90
26	BB	2010	G	C6-N1-C2	-5.49	121.81	125.10
26	BB	2092	U	N3-C2-O2	-5.49	118.36	122.20
26	BB	2294	G	N9-C4-C5	5.49	107.60	105.40
1	AA	562	U	N3-C4-C5	-5.49	111.31	114.60
1	AA	703	G	C2-N3-C4	5.49	114.64	111.90
1	AA	1029	U	N3-C4-O4	5.49	123.24	119.40
1	AA	1239	A	N9-C4-C5	5.49	108.00	105.80
2	AB	4	G	N3-C4-C5	5.49	131.34	128.60
17	AQ	99	SER	O-C-N	5.49	131.49	122.70
26	BB	212	G	C5-C6-O6	-5.49	125.31	128.60
26	BB	699	A	C5-C6-N1	5.49	120.44	117.70
26	BB	711	G	O5'-C5'-C4'	5.49	122.13	111.70
26	BB	744	U	C4-C5-C6	5.49	122.99	119.70
26	BB	1784	A	C4-C5-N7	-5.49	107.95	110.70
26	BB	1994	C	N1-C1'-C2'	-5.49	105.96	112.00
26	BB	2530	A	O5'-P-OP1	5.49	117.29	110.70
26	BB	2633	G	N1-C6-O6	5.49	123.19	119.90
26	BB	2840	C	C4-C5-C6	5.49	120.14	117.40
1	AA	205	A	C5-C6-N1	5.49	120.44	117.70
1	AA	245	U	C4'-C3'-C2'	-5.49	97.11	102.60
1	AA	698	G	O4'-C1'-N9	5.49	112.59	108.20
1	AA	715	A	C5'-C4'-C3'	-5.49	107.22	116.00
1	AA	767	A	N1-C6-N6	5.49	121.89	118.60
1	AA	1195	C	N3-C4-N4	5.49	121.84	118.00
1	AA	1509	C	C2-N3-C4	-5.49	117.16	119.90
3	AC	15	G	P-O5'-C5'	5.49	129.68	120.90
26	BB	193	U	C5-C4-O4	5.49	129.19	125.90
26	BB	533	G	N1-C2-N3	-5.49	120.61	123.90
26	BB	1022	G	O4'-C1'-N9	5.49	112.59	108.20
26	BB	1055	G	C5'-C4'-C3'	-5.49	107.22	116.00
26	BB	1461	C	O4'-C1'-C2'	-5.49	100.31	105.80
26	BB	1723	G	N3-C4-C5	-5.49	125.86	128.60
26	BB	1821	A	C3'-C2'-C1'	-5.49	97.11	101.50
26	BB	2198	A	C5-C6-N1	5.49	120.44	117.70
26	BB	2578	G	C6-N1-C2	-5.49	121.81	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	436	C	C2-N1-C1'	-5.49	112.76	118.80
1	AA	1041	G	C4-C5-N7	-5.49	108.61	110.80
26	BB	465	G	C5-C6-N1	5.49	114.24	111.50
26	BB	632	A	N7-C8-N9	5.49	116.54	113.80
26	BB	1043	C	C2'-C3'-O3'	5.49	122.48	113.70
26	BB	1163	G	C5-C6-O6	-5.49	125.31	128.60
26	BB	1816	C	N1-C2-N3	-5.49	115.36	119.20
26	BB	1839	G	N9-C1'-C2'	-5.49	105.97	112.00
26	BB	2839	G	C2-N3-C4	5.49	114.64	111.90
1	AA	122	G	C5'-C4'-O4'	5.49	115.68	109.10
1	AA	166	U	C3'-C2'-C1'	-5.49	97.11	101.50
1	AA	476	U	C4'-C3'-O3'	5.49	123.97	113.00
1	AA	1081	A	C4-C5-C6	-5.49	114.26	117.00
1	AA	1179	A	C6-C5-N7	5.49	136.14	132.30
1	AA	1424	U	N1-C2-N3	5.49	118.19	114.90
1	AA	1513	A	C5-C6-N1	-5.49	114.96	117.70
8	AH	84	VAL	CG1-CB-CG2	-5.49	102.12	110.90
15	AO	98	ARG	NH1-CZ-NH2	5.49	125.43	119.40
23	AW	35	TYR	CB-CG-CD2	-5.49	117.71	121.00
25	BA	67	G	N3-C4-C5	-5.49	125.86	128.60
26	BB	199	A	N1-C2-N3	-5.49	126.56	129.30
26	BB	606	U	N3-C4-O4	5.49	123.24	119.40
26	BB	869	G	C5-N7-C8	-5.49	101.56	104.30
26	BB	928	A	C4-C5-C6	-5.49	114.26	117.00
26	BB	1451	C	C5-C6-N1	-5.49	118.26	121.00
26	BB	1716	U	C5'-C4'-O4'	5.49	115.68	109.10
26	BB	1933	G	C5'-C4'-C3'	5.49	124.78	116.00
26	BB	2395	C	C5-C6-N1	5.49	123.74	121.00
26	BB	2569	G	C5-C6-O6	5.49	131.89	128.60
26	BB	2693	G	C6-N1-C2	-5.49	121.81	125.10
26	BB	2747	G	N3-C4-C5	-5.49	125.86	128.60
26	BB	2755	C	C6-N1-C2	-5.49	118.11	120.30
26	BB	2904	U	C5-C6-N1	5.49	125.44	122.70
1	AA	361	G	N1-C6-O6	-5.48	116.61	119.90
1	AA	646	G	N7-C8-N9	5.48	115.84	113.10
1	AA	726	C	N1-C2-O2	-5.48	115.61	118.90
1	AA	1417	G	N9-C1'-C2'	-5.48	105.97	112.00
26	BB	255	A	C6-N1-C2	5.48	121.89	118.60
26	BB	483	A	N1-C6-N6	5.48	121.89	118.60
26	BB	793	A	P-O3'-C3'	5.48	126.28	119.70
26	BB	1184	U	C3'-C2'-C1'	-5.48	97.11	101.50
26	BB	1391	U	N3-C4-C5	-5.48	111.31	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1795	C	N1-C2-O2	5.48	122.19	118.90
1	AA	385	C	C4-C5-C6	-5.48	114.66	117.40
1	AA	442	G	C4'-C3'-C2'	-5.48	97.12	102.60
1	AA	920	U	C4'-C3'-C2'	-5.48	97.12	102.60
1	AA	1345	U	P-O3'-C3'	5.48	126.28	119.70
26	BB	110	G	C4-C5-C6	-5.48	115.51	118.80
26	BB	144	A	C4'-C3'-C2'	-5.48	97.12	102.60
26	BB	311	A	C4'-C3'-C2'	-5.48	97.12	102.60
26	BB	340	A	C5-N7-C8	5.48	106.64	103.90
26	BB	524	G	O5'-C5'-C4'	5.48	122.12	111.70
26	BB	753	A	C5'-C4'-C3'	-5.48	107.23	116.00
26	BB	1169	A	C5-C6-N1	5.48	120.44	117.70
26	BB	1690	A	N9-C1'-C2'	-5.48	105.97	112.00
26	BB	2168	G	N3-C4-N9	5.48	129.29	126.00
26	BB	2324	U	O4'-C4'-C3'	5.48	110.49	106.10
26	BB	2629	U	C5-C6-N1	5.48	125.44	122.70
26	BB	2686	G	C4-N9-C1'	-5.48	119.37	126.50
26	BB	2782	G	C5-C6-N1	5.48	114.24	111.50
28	BD	216	ARG	NE-CZ-NH1	5.48	123.04	120.30
1	AA	454	G	N7-C8-N9	5.48	115.84	113.10
1	AA	1241	G	C2-N3-C4	5.48	114.64	111.90
1	AA	1419	G	N9-C4-C5	5.48	107.59	105.40
1	AA	1488	G	C5-C6-O6	-5.48	125.31	128.60
2	AB	76	A	N3-C4-C5	5.48	130.64	126.80
25	BA	73	A	C3'-C2'-C1'	-5.48	97.11	101.50
26	BB	47	C	C2'-C3'-O3'	5.48	122.47	113.70
26	BB	470	A	C4-C5-C6	-5.48	114.26	117.00
26	BB	570	G	N3-C4-C5	-5.48	125.86	128.60
26	BB	774	G	O4'-C1'-C2'	5.48	112.53	107.60
26	BB	1572	A	C5-C6-N1	5.48	120.44	117.70
26	BB	1682	G	C5-C6-N1	5.48	114.24	111.50
26	BB	2028	U	C2-N3-C4	-5.48	123.71	127.00
26	BB	2139	U	N3-C2-O2	-5.48	118.36	122.20
26	BB	2186	G	C4'-C3'-C2'	-5.48	97.12	102.60
1	AA	5	U	O4'-C1'-C2'	-5.48	100.32	105.80
1	AA	391	G	N3-C4-C5	-5.48	125.86	128.60
1	AA	1198	G	C2-N3-C4	5.48	114.64	111.90
1	AA	1222	G	N9-C1'-C2'	5.48	121.12	114.00
26	BB	207	A	C6-C5-N7	-5.48	128.46	132.30
26	BB	508	A	N9-C1'-C2'	-5.48	105.97	112.00
26	BB	1073	A	C1'-O4'-C4'	-5.48	105.52	109.90
26	BB	1364	G	C2-N3-C4	5.48	114.64	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1528	A	C4-C5-N7	-5.48	107.96	110.70
26	BB	2626	C	N3-C4-C5	-5.48	119.71	121.90
26	BB	2831	G	C4-C5-N7	5.48	112.99	110.80
26	BB	2834	G	N7-C8-N9	5.48	115.84	113.10
28	BD	62	ARG	NE-CZ-NH2	5.48	123.04	120.30
1	AA	31	G	C5'-C4'-O4'	5.48	115.67	109.10
1	AA	526	C	C4-C5-C6	-5.48	114.66	117.40
1	AA	540	G	C8-N9-C1'	5.48	134.12	127.00
1	AA	782	A	N9-C4-C5	5.48	107.99	105.80
1	AA	1077	G	N9-C4-C5	5.48	107.59	105.40
1	AA	1334	G	C5-N7-C8	-5.48	101.56	104.30
1	AA	1401	G	N9-C1'-C2'	-5.48	105.97	112.00
6	AF	90	VAL	CG1-CB-CG2	-5.48	102.14	110.90
26	BB	75	G	C8-N9-C4	5.48	108.59	106.40
26	BB	388	G	C8-N9-C1'	5.48	134.12	127.00
26	BB	401	A	N3-C4-N9	-5.48	123.02	127.40
26	BB	784	G	C3'-C2'-C1'	5.48	105.88	101.50
26	BB	1001	A	N1-C2-N3	-5.48	126.56	129.30
26	BB	1252	G	N7-C8-N9	-5.48	110.36	113.10
26	BB	1719	G	C2-N3-C4	5.48	114.64	111.90
26	BB	1810	A	C6-C5-N7	-5.48	128.47	132.30
26	BB	1880	U	N1-C1'-C2'	-5.48	105.97	112.00
26	BB	2454	G	N3-C4-N9	-5.48	122.71	126.00
26	BB	2858	C	C5-C6-N1	5.48	123.74	121.00
1	AA	191	G	P-O3'-C3'	5.48	126.27	119.70
1	AA	542	G	C1'-O4'-C4'	-5.48	105.52	109.90
1	AA	1000	A	C4-C5-C6	5.48	119.74	117.00
1	AA	1333	A	C4'-C3'-C2'	-5.48	97.12	102.60
4	AD	23	G	C2-N3-C4	5.48	114.64	111.90
26	BB	143	C	N3-C4-C5	-5.48	119.71	121.90
26	BB	802	A	C6-C5-N7	-5.48	128.47	132.30
26	BB	2669	G	N1-C2-N2	-5.48	111.27	116.20
26	BB	2720	U	N3-C4-O4	-5.48	115.57	119.40
26	BB	2889	C	C1'-O4'-C4'	-5.48	105.52	109.90
47	BW	21	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	AA	305	G	O4'-C4'-C3'	5.47	110.48	106.10
1	AA	380	G	N3-C4-C5	-5.47	125.86	128.60
1	AA	513	C	P-O3'-C3'	5.47	126.27	119.70
1	AA	568	G	N3-C2-N2	-5.47	116.07	119.90
1	AA	1181	G	N9-C4-C5	5.47	107.59	105.40
1	AA	1285	A	N1-C2-N3	-5.47	126.56	129.30
5	AE	7	ASP	CB-CG-OD1	-5.47	113.37	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	AJ	142	ARG	NE-CZ-NH2	-5.47	117.56	120.30
25	BA	44	G	N7-C8-N9	-5.47	110.36	113.10
26	BB	80	G	C5'-C4'-C3'	-5.47	107.24	116.00
26	BB	173	A	C3'-C2'-C1'	5.47	105.88	101.50
26	BB	978	G	N3-C4-C5	-5.47	125.86	128.60
26	BB	986	C	C5-C4-N4	-5.47	116.37	120.20
26	BB	1451	C	C5'-C4'-C3'	-5.47	107.24	116.00
26	BB	1510	G	N9-C1'-C2'	5.47	121.12	114.00
26	BB	1543	G	O5'-P-OP1	-5.47	100.77	105.70
26	BB	1600	C	N3-C2-O2	-5.47	118.07	121.90
26	BB	1642	G	C4'-C3'-C2'	5.47	108.07	102.60
26	BB	1808	A	P-O3'-C3'	5.47	126.27	119.70
26	BB	2771	C	C5'-C4'-O4'	5.47	115.67	109.10
1	AA	680	C	C5'-C4'-O4'	5.47	115.67	109.10
1	AA	714	G	C4-C5-C6	5.47	122.08	118.80
1	AA	719	C	N3-C4-N4	5.47	121.83	118.00
1	AA	752	G	C5-N7-C8	-5.47	101.56	104.30
1	AA	1282	C	C5-C4-N4	-5.47	116.37	120.20
1	AA	1531	A	C1'-O4'-C4'	-5.47	105.52	109.90
25	BA	106	G	N3-C4-C5	-5.47	125.86	128.60
26	BB	242	G	N3-C2-N2	-5.47	116.07	119.90
26	BB	384	A	C5-N7-C8	-5.47	101.16	103.90
26	BB	858	G	N1-C2-N3	-5.47	120.62	123.90
26	BB	903	C	C5-C4-N4	5.47	124.03	120.20
26	BB	987	C	N1-C1'-C2'	-5.47	105.98	112.00
26	BB	1727	C	O3'-P-O5'	-5.47	93.60	104.00
26	BB	1770	G	O4'-C1'-N9	5.47	112.58	108.20
26	BB	1778	U	N1-C2-O2	-5.47	118.97	122.80
26	BB	1876	A	C6-N1-C2	5.47	121.88	118.60
26	BB	1888	G	C4-C5-N7	-5.47	108.61	110.80
26	BB	1925	C	C2-N3-C4	5.47	122.64	119.90
26	BB	2171	A	C2-N3-C4	5.47	113.34	110.60
26	BB	2280	G	C5-C6-N1	5.47	114.24	111.50
27	BC	51	ASP	CB-CG-OD2	5.47	123.22	118.30
45	BU	97	LEU	CB-CG-CD2	5.47	120.30	111.00
1	AA	495	A	N1-C2-N3	5.47	132.04	129.30
1	AA	497	G	C5-C6-O6	-5.47	125.32	128.60
1	AA	534	U	O4'-C1'-N1	5.47	112.58	108.20
1	AA	963	G	C1'-O4'-C4'	-5.47	105.52	109.90
1	AA	986	U	N3-C4-C5	5.47	117.88	114.60
1	AA	1300	G	C2-N3-C4	5.47	114.64	111.90
18	AR	77	TYR	CB-CG-CD2	5.47	124.28	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	51	G	C2-N3-C4	-5.47	109.16	111.90
26	BB	390	U	N1-C2-O2	5.47	126.63	122.80
26	BB	2019	A	O4'-C1'-C2'	5.47	112.52	107.60
26	BB	2138	G	N3-C2-N2	5.47	123.73	119.90
1	AA	193	C	C5-C4-N4	-5.47	116.37	120.20
1	AA	241	G	C3'-C2'-C1'	-5.47	97.12	101.50
1	AA	712	A	C2-N3-C4	5.47	113.33	110.60
1	AA	759	A	C2-N3-C4	5.47	113.33	110.60
1	AA	1024	G	C4'-C3'-C2'	-5.47	97.13	102.60
1	AA	1163	A	C6-N1-C2	5.47	121.88	118.60
1	AA	1310	G	C4'-C3'-C2'	-5.47	97.13	102.60
1	AA	1429	A	P-O3'-C3'	5.47	126.26	119.70
1	AA	1530	G	N7-C8-N9	5.47	115.83	113.10
4	AD	1	C	C3'-C2'-C1'	-5.47	97.12	101.50
25	BA	12	C	N3-C2-O2	-5.47	118.07	121.90
26	BB	200	U	N1-C2-N3	5.47	118.18	114.90
26	BB	273	G	C4'-C3'-C2'	-5.47	97.13	102.60
26	BB	461	C	C6-N1-C2	-5.47	118.11	120.30
26	BB	705	A	N9-C1'-C2'	-5.47	105.98	112.00
26	BB	1217	U	N1-C2-N3	5.47	118.18	114.90
26	BB	2186	G	O4'-C1'-N9	5.47	112.58	108.20
26	BB	2215	C	O5'-C5'-C4'	5.47	122.09	111.70
26	BB	2490	G	C4-C5-N7	-5.47	108.61	110.80
26	BB	2588	G	O4'-C1'-C2'	5.47	112.52	107.60
1	AA	996	A	N9-C4-C5	5.47	107.99	105.80
1	AA	1115	U	C1'-O4'-C4'	-5.47	105.53	109.90
26	BB	367	G	N9-C4-C5	5.47	107.59	105.40
26	BB	1026	G	C5-C6-N1	5.47	114.23	111.50
26	BB	1406	U	N1-C2-N3	5.47	118.18	114.90
26	BB	1903	G	C6-C5-N7	-5.47	127.12	130.40
26	BB	2144	G	O4'-C1'-N9	5.47	112.58	108.20
26	BB	2152	G	C2-N3-C4	5.47	114.63	111.90
28	BD	1	ALA	N-CA-CB	-5.47	102.44	110.10
43	BS	106	THR	CA-CB-CG2	5.47	120.06	112.40
47	BW	10	VAL	CA-CB-CG2	5.47	119.10	110.90
1	AA	201	G	C6-N1-C2	-5.47	121.82	125.10
1	AA	423	G	C2-N3-C4	5.47	114.63	111.90
1	AA	768	A	C6-C5-N7	5.47	136.13	132.30
1	AA	849	G	N3-C2-N2	5.47	123.73	119.90
1	AA	882	C	N1-C2-O2	-5.47	115.62	118.90
1	AA	906	A	N1-C2-N3	5.47	132.03	129.30
1	AA	929	G	C3'-C2'-C1'	5.47	105.87	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	978	A	O5'-C5'-C4'	5.47	122.09	111.70
1	AA	985	C	C1'-O4'-C4'	-5.47	105.53	109.90
1	AA	1058	G	N3-C4-C5	-5.47	125.87	128.60
1	AA	1270	G	O4'-C1'-N9	5.47	112.57	108.20
26	BB	89	A	C4-C5-C6	-5.47	114.27	117.00
26	BB	1236	G	C4-C5-N7	5.47	112.99	110.80
26	BB	1760	C	C5-C4-N4	-5.47	116.37	120.20
26	BB	1785	A	N9-C4-C5	5.47	107.99	105.80
26	BB	1867	G	C5-C6-N1	5.47	114.23	111.50
26	BB	1876	A	N3-C4-C5	-5.47	122.97	126.80
26	BB	2549	G	C1'-O4'-C4'	-5.47	105.53	109.90
26	BB	2721	A	N1-C6-N6	5.47	121.88	118.60
1	AA	77	A	C8-N9-C4	-5.46	103.61	105.80
1	AA	522	C	C4'-C3'-C2'	-5.46	97.14	102.60
1	AA	585	G	C8-N9-C1'	5.46	134.10	127.00
1	AA	1089	G	N9-C1'-C2'	-5.46	105.99	112.00
25	BA	57	A	C2'-C3'-O3'	5.46	122.44	113.70
26	BB	698	C	N3-C2-O2	-5.46	118.08	121.90
26	BB	733	G	C5-C6-N1	5.46	114.23	111.50
26	BB	1006	C	C5'-C4'-C3'	-5.46	107.26	116.00
26	BB	1595	C	N3-C2-O2	5.46	125.72	121.90
26	BB	2482	A	C4'-C3'-C2'	-5.46	97.14	102.60
43	BS	85	ALA	N-CA-CB	5.46	117.75	110.10
1	AA	204	G	C5-C6-O6	5.46	131.88	128.60
26	BB	943	A	N9-C4-C5	5.46	107.98	105.80
26	BB	988	A	C5-N7-C8	-5.46	101.17	103.90
26	BB	1395	A	C5'-C4'-O4'	5.46	115.66	109.10
26	BB	1919	A	C1'-O4'-C4'	5.46	114.27	109.90
26	BB	2611	C	N3-C4-C5	-5.46	119.72	121.90
1	AA	96	U	N3-C4-C5	-5.46	111.32	114.60
1	AA	121	U	C6-N1-C1'	-5.46	113.55	121.20
1	AA	152	A	P-O3'-C3'	5.46	126.25	119.70
1	AA	633	G	N3-C2-N2	5.46	123.72	119.90
1	AA	722	G	C6-C5-N7	-5.46	127.12	130.40
1	AA	767	A	C5-C6-N1	5.46	120.43	117.70
1	AA	837	U	C4'-C3'-O3'	5.46	123.92	113.00
1	AA	1041	G	N1-C2-N3	5.46	127.18	123.90
1	AA	1164	G	C8-N9-C4	-5.46	104.22	106.40
1	AA	1169	A	N3-C4-N9	-5.46	123.03	127.40
4	AD	4	G	N1-C6-O6	-5.46	116.62	119.90
4	AD	25	U	C4'-C3'-C2'	-5.46	97.14	102.60
4	AD	57	C	N1-C2-N3	5.46	123.02	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	242	G	C5'-C4'-C3'	-5.46	107.26	116.00
26	BB	308	G	N1-C6-O6	-5.46	116.62	119.90
26	BB	559	G	C1'-O4'-C4'	-5.46	105.53	109.90
26	BB	570	G	C5'-C4'-O4'	5.46	115.65	109.10
26	BB	752	A	N9-C4-C5	5.46	107.98	105.80
26	BB	785	G	C6-C5-N7	-5.46	127.12	130.40
26	BB	1630	A	C5-C6-N1	5.46	120.43	117.70
26	BB	1680	U	O4'-C1'-N1	5.46	112.57	108.20
26	BB	1972	G	N1-C2-N2	5.46	121.11	116.20
26	BB	2663	G	N9-C4-C5	5.46	107.58	105.40
26	BB	2780	G	C5-N7-C8	5.46	107.03	104.30
26	BB	2784	U	C4-C5-C6	5.46	122.98	119.70
57	B6	63	TYR	CB-CG-CD1	-5.46	117.72	121.00
1	AA	228	A	C6-C5-N7	-5.46	128.48	132.30
1	AA	530	G	O4'-C4'-C3'	5.46	110.47	106.10
1	AA	1000	A	C4-C5-N7	-5.46	107.97	110.70
1	AA	1458	G	C3'-C2'-C1'	5.46	105.87	101.50
25	BA	20	G	C5-C6-N1	5.46	114.23	111.50
26	BB	198	C	N1-C1'-C2'	-5.46	105.99	112.00
26	BB	365	U	N3-C4-C5	5.46	117.88	114.60
26	BB	369	U	C5'-C4'-O4'	5.46	115.65	109.10
26	BB	620	G	C4-C5-N7	-5.46	108.62	110.80
26	BB	1103	A	N9-C4-C5	5.46	107.98	105.80
26	BB	1402	U	C1'-O4'-C4'	-5.46	105.53	109.90
26	BB	2218	G	C5-C6-O6	-5.46	125.32	128.60
35	BK	63	ASP	CB-CG-OD2	-5.46	113.39	118.30
1	AA	522	C	C2-N3-C4	5.46	122.63	119.90
1	AA	670	G	C8-N9-C1'	5.46	134.10	127.00
1	AA	671	G	N3-C2-N2	-5.46	116.08	119.90
1	AA	1022	A	C3'-C2'-C1'	5.46	105.87	101.50
1	AA	1465	A	C5-C6-N6	5.46	128.07	123.70
26	BB	974	G	C4'-C3'-C2'	-5.46	97.14	102.60
26	BB	1025	G	N3-C2-N2	-5.46	116.08	119.90
26	BB	1319	C	C5'-C4'-C3'	-5.46	107.27	116.00
26	BB	1708	C	N1-C2-O2	5.46	122.17	118.90
26	BB	2731	G	C5-C6-O6	-5.46	125.33	128.60
26	BB	2803	G	C5-C6-O6	-5.46	125.33	128.60
1	AA	281	G	C8-N9-C4	-5.46	104.22	106.40
1	AA	548	G	N1-C2-N2	5.46	121.11	116.20
1	AA	588	G	O4'-C4'-C3'	5.46	110.47	106.10
1	AA	640	A	C5-N7-C8	5.46	106.63	103.90
1	AA	1048	G	N3-C4-N9	5.46	129.27	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1091	U	C1'-O4'-C4'	-5.46	105.53	109.90
1	AA	1222	G	C5-N7-C8	-5.46	101.57	104.30
3	AC	31	U	C4-C5-C6	5.46	122.97	119.70
23	AW	49	ALA	CB-CA-C	5.46	118.28	110.10
26	BB	785	G	O4'-C1'-C2'	-5.46	100.34	105.80
26	BB	1370	C	C4-C5-C6	-5.46	114.67	117.40
26	BB	1478	G	C8-N9-C4	5.46	108.58	106.40
26	BB	1631	G	N1-C2-N3	-5.46	120.63	123.90
26	BB	2562	U	N3-C2-O2	-5.46	118.38	122.20
1	AA	821	G	C4-C5-C6	-5.46	115.53	118.80
2	AB	70	C	C2'-C3'-O3'	5.46	122.43	113.70
4	AD	39	A	N1-C6-N6	5.46	121.87	118.60
26	BB	459	U	C6-N1-C2	-5.46	117.73	121.00
26	BB	1667	G	N7-C8-N9	5.46	115.83	113.10
26	BB	1910	G	C5-C6-O6	-5.46	125.33	128.60
26	BB	2628	C	C2-N3-C4	5.46	122.63	119.90
26	BB	2780	G	N3-C4-C5	-5.46	125.87	128.60
1	AA	8	A	C5-N7-C8	-5.45	101.17	103.90
1	AA	80	A	C6-N1-C2	5.45	121.87	118.60
1	AA	359	G	C1'-O4'-C4'	5.45	114.26	109.90
1	AA	524	G	N7-C8-N9	5.45	115.83	113.10
1	AA	712	A	C5-C6-N1	5.45	120.43	117.70
1	AA	810	C	N3-C2-O2	-5.45	118.08	121.90
1	AA	938	A	C5-C6-N6	5.45	128.06	123.70
1	AA	1106	G	C5-C6-N1	5.45	114.23	111.50
26	BB	31	C	C2-N3-C4	-5.45	117.17	119.90
26	BB	126	A	C1'-O4'-C4'	-5.45	105.54	109.90
26	BB	144	A	C5-C6-N1	5.45	120.43	117.70
26	BB	812	C	C5-C4-N4	-5.45	116.38	120.20
26	BB	1038	G	C5'-C4'-O4'	5.45	115.64	109.10
26	BB	1254	A	C2-N3-C4	5.45	113.33	110.60
26	BB	1326	U	C2-N3-C4	-5.45	123.73	127.00
26	BB	1418	G	O4'-C1'-N9	-5.45	103.84	108.20
26	BB	1611	C	N3-C4-C5	5.45	124.08	121.90
26	BB	1614	A	C4-C5-N7	-5.45	107.97	110.70
26	BB	2648	G	C4'-C3'-C2'	-5.45	97.15	102.60
26	BB	2649	C	C5-C6-N1	-5.45	118.27	121.00
1	AA	240	G	C4-C5-C6	5.45	122.07	118.80
1	AA	1236	A	N9-C1'-C2'	-5.45	106.00	112.00
26	BB	164	C	N3-C2-O2	-5.45	118.08	121.90
26	BB	663	G	C2-N3-C4	-5.45	109.17	111.90
26	BB	1222	U	C4'-C3'-C2'	-5.45	97.15	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1635	A	C6-N1-C2	-5.45	115.33	118.60
26	BB	1959	G	N1-C2-N2	-5.45	111.29	116.20
26	BB	2384	U	O3'-P-O5'	-5.45	93.64	104.00
26	BB	2690	U	C5-C4-O4	-5.45	122.63	125.90
1	AA	556	C	N3-C4-N4	5.45	121.82	118.00
1	AA	602	A	O4'-C1'-N9	5.45	112.56	108.20
1	AA	936	C	N1-C2-N3	5.45	123.02	119.20
1	AA	1051	C	C3'-C2'-C1'	5.45	105.86	101.50
1	AA	1052	U	C5-C6-N1	-5.45	119.97	122.70
1	AA	1104	G	N1-C6-O6	-5.45	116.63	119.90
1	AA	1348	U	C5'-C4'-C3'	-5.45	107.28	116.00
6	AF	198	LYS	N-CA-CB	-5.45	100.79	110.60
14	AN	85	VAL	CG1-CB-CG2	-5.45	102.18	110.90
15	AO	94	TYR	CD1-CG-CD2	5.45	123.89	117.90
25	BA	47	C	C5'-C4'-C3'	-5.45	107.28	116.00
26	BB	237	C	N3-C4-C5	-5.45	119.72	121.90
26	BB	1341	G	C3'-C2'-C1'	5.45	105.86	101.50
26	BB	1624	U	C2-N3-C4	-5.45	123.73	127.00
26	BB	1753	G	O4'-C1'-C2'	5.45	112.51	107.60
26	BB	1948	G	C8-N9-C4	5.45	108.58	106.40
26	BB	2217	G	C1'-O4'-C4'	-5.45	105.54	109.90
26	BB	2440	C	C2'-C3'-O3'	5.45	122.42	113.70
26	BB	2854	G	C6-N1-C2	5.45	128.37	125.10
26	BB	2861	U	C2-N3-C4	-5.45	123.73	127.00
1	AA	18	C	N3-C2-O2	-5.45	118.09	121.90
1	AA	1012	A	C5-C6-N1	5.45	120.42	117.70
1	AA	1058	G	C6-N1-C2	-5.45	121.83	125.10
7	AG	203	TYR	CB-CG-CD1	-5.45	117.73	121.00
25	BA	37	C	N1-C1'-C2'	-5.45	106.01	112.00
26	BB	496	G	C8-N9-C1'	5.45	134.08	127.00
26	BB	498	G	N1-C2-N3	-5.45	120.63	123.90
26	BB	656	G	C3'-C2'-C1'	-5.45	97.14	101.50
26	BB	1002	G	C5-C6-O6	-5.45	125.33	128.60
26	BB	1016	G	C8-N9-C4	-5.45	104.22	106.40
26	BB	1083	U	C5-C4-O4	-5.45	122.63	125.90
26	BB	1136	G	C5-C6-O6	-5.45	125.33	128.60
26	BB	1281	G	C4'-C3'-C2'	-5.45	97.15	102.60
26	BB	1385	A	O4'-C4'-C3'	5.45	110.46	106.10
26	BB	1394	U	C2-N3-C4	-5.45	123.73	127.00
26	BB	1840	G	C5'-C4'-C3'	-5.45	107.28	116.00
26	BB	2072	C	C2-N3-C4	5.45	122.62	119.90
26	BB	2274	A	N7-C8-N9	5.45	116.52	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2455	G	N3-C4-C5	-5.45	125.88	128.60
26	BB	2612	C	C4'-C3'-C2'	-5.45	97.15	102.60
1	AA	1288	A	N1-C2-N3	5.45	132.02	129.30
1	AA	1363	A	O3'-P-O5'	-5.45	93.65	104.00
1	AA	1471	U	C4-C5-C6	5.45	122.97	119.70
3	AC	33	A	C6-N1-C2	-5.45	115.33	118.60
26	BB	152	A	C3'-C2'-C1'	5.45	105.86	101.50
26	BB	371	A	C5'-C4'-C3'	5.45	124.72	116.00
26	BB	475	C	N1-C2-N3	5.45	123.01	119.20
26	BB	651	G	C5-N7-C8	5.45	107.02	104.30
26	BB	1306	C	N3-C4-N4	5.45	121.81	118.00
26	BB	2124	G	C3'-C2'-C1'	5.45	105.86	101.50
26	BB	2646	C	N3-C2-O2	5.45	125.71	121.90
45	BU	94	ASP	CB-CG-OD2	-5.45	113.40	118.30
1	AA	299	G	N3-C4-N9	5.45	129.27	126.00
1	AA	447	G	C4-C5-N7	-5.45	108.62	110.80
1	AA	464	U	N3-C2-O2	-5.45	118.39	122.20
1	AA	591	U	C6-N1-C2	-5.45	117.73	121.00
1	AA	935	A	N7-C8-N9	-5.45	111.08	113.80
26	BB	8	C	C3'-C2'-C1'	-5.45	97.14	101.50
26	BB	219	A	C5'-C4'-O4'	5.45	115.64	109.10
26	BB	292	U	C5-C6-N1	-5.45	119.98	122.70
26	BB	425	G	N3-C4-C5	5.45	131.32	128.60
26	BB	617	G	N3-C4-C5	-5.45	125.88	128.60
26	BB	841	G	O5'-P-OP2	-5.45	100.80	105.70
26	BB	876	C	C6-N1-C2	5.45	122.48	120.30
26	BB	1114	C	N3-C4-N4	5.45	121.81	118.00
26	BB	1424	G	N9-C4-C5	5.45	107.58	105.40
26	BB	1638	C	C4-C5-C6	5.45	120.12	117.40
26	BB	2096	C	N3-C4-C5	-5.45	119.72	121.90
26	BB	2374	C	C2'-C3'-O3'	5.45	122.41	113.70
26	BB	2510	C	C5-C6-N1	5.45	123.72	121.00
26	BB	2737	G	C2-N3-C4	5.45	114.62	111.90
1	AA	57	G	C5-C6-N1	5.44	114.22	111.50
1	AA	126	G	C2-N3-C4	5.44	114.62	111.90
1	AA	292	G	N1-C2-N2	5.44	121.10	116.20
1	AA	425	G	C3'-C2'-C1'	-5.44	97.14	101.50
1	AA	559	A	N9-C1'-C2'	-5.44	106.01	112.00
1	AA	794	A	N3-C4-C5	5.44	130.61	126.80
1	AA	1210	C	C3'-C2'-C1'	5.44	105.86	101.50
1	AA	1360	A	C5-N7-C8	5.44	106.62	103.90
2	AB	64	U	C5-C6-N1	-5.44	119.98	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	205	G	C5'-C4'-O4'	5.44	115.63	109.10
26	BB	385	C	C4-C5-C6	5.44	120.12	117.40
26	BB	476	G	C4-C5-C6	5.44	122.07	118.80
26	BB	629	G	C4'-C3'-C2'	-5.44	97.16	102.60
26	BB	910	A	C5'-C4'-C3'	-5.44	107.29	116.00
26	BB	1106	G	C4-C5-C6	-5.44	115.53	118.80
26	BB	2086	U	N3-C2-O2	-5.44	118.39	122.20
26	BB	2657	A	C1'-O4'-C4'	-5.44	105.55	109.90
1	AA	194	C	C5-C6-N1	5.44	123.72	121.00
1	AA	207	C	O4'-C4'-C3'	5.44	110.45	106.10
1	AA	1119	C	C5'-C4'-O4'	5.44	115.63	109.10
1	AA	1456	A	N3-C4-N9	5.44	131.75	127.40
2	AB	76	A	C8-N9-C4	5.44	107.98	105.80
25	BA	12	C	C4'-C3'-C2'	-5.44	97.16	102.60
25	BA	33	G	C4'-C3'-C2'	-5.44	97.16	102.60
26	BB	41	C	C2-N1-C1'	-5.44	112.81	118.80
26	BB	191	A	C6-N1-C2	-5.44	115.33	118.60
26	BB	263	G	O4'-C1'-N9	5.44	112.56	108.20
26	BB	601	C	N3-C4-C5	-5.44	119.72	121.90
26	BB	742	A	N9-C1'-C2'	-5.44	106.01	112.00
26	BB	842	U	P-O3'-C3'	5.44	126.23	119.70
26	BB	962	G	N3-C2-N2	-5.44	116.09	119.90
26	BB	1572	A	C5'-C4'-O4'	5.44	115.63	109.10
26	BB	1577	C	C5-C4-N4	-5.44	116.39	120.20
26	BB	1845	G	N1-C2-N2	-5.44	111.30	116.20
26	BB	1874	C	C4'-C3'-C2'	-5.44	97.16	102.60
26	BB	2086	U	O4'-C4'-C3'	5.44	110.45	106.10
26	BB	2703	C	C2-N3-C4	5.44	122.62	119.90
29	BE	52	THR	CA-CB-OG1	5.44	120.43	109.00
1	AA	210	C	C1'-O4'-C4'	-5.44	105.55	109.90
1	AA	229	U	N3-C4-O4	5.44	123.21	119.40
1	AA	394	G	P-O3'-C3'	5.44	126.23	119.70
1	AA	666	G	C4-C5-N7	-5.44	108.62	110.80
1	AA	823	C	OP2-P-O3'	5.44	117.17	105.20
1	AA	1095	U	N3-C4-C5	-5.44	111.33	114.60
1	AA	1279	G	C6-N1-C2	-5.44	121.84	125.10
1	AA	1309	G	N7-C8-N9	5.44	115.82	113.10
1	AA	1408	A	C4-C5-C6	-5.44	114.28	117.00
9	AI	102	MET	CB-CA-C	5.44	121.28	110.40
26	BB	103	A	C6-N1-C2	-5.44	115.34	118.60
26	BB	115	C	N3-C4-C5	5.44	124.08	121.90
26	BB	190	A	P-O3'-C3'	5.44	126.23	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	668	A	C1'-O4'-C4'	-5.44	105.55	109.90
26	BB	996	A	O5'-P-OP2	-5.44	100.80	105.70
26	BB	1453	A	C3'-C2'-C1'	5.44	105.85	101.50
26	BB	1771	C	N1-C2-O2	5.44	122.16	118.90
26	BB	2155	U	C3'-C2'-C1'	5.44	105.85	101.50
26	BB	2871	U	C3'-C2'-C1'	5.44	105.85	101.50
1	AA	268	U	C5'-C4'-C3'	-5.44	107.30	116.00
1	AA	1469	C	C3'-C2'-C1'	5.44	105.85	101.50
25	BA	10	G	N3-C4-C5	-5.44	125.88	128.60
26	BB	271	G	N1-C6-O6	5.44	123.16	119.90
26	BB	1337	G	N1-C6-O6	5.44	123.16	119.90
26	BB	2583	G	N1-C2-N2	-5.44	111.31	116.20
1	AA	144	G	C5-N7-C8	-5.44	101.58	104.30
1	AA	265	G	N1-C2-N3	-5.44	120.64	123.90
1	AA	947	G	C6-C5-N7	5.44	133.66	130.40
1	AA	991	U	N3-C4-C5	-5.44	111.34	114.60
1	AA	1044	A	C4-C5-N7	5.44	113.42	110.70
1	AA	1063	C	O4'-C1'-N1	5.44	112.55	108.20
1	AA	1066	C	N3-C2-O2	-5.44	118.09	121.90
1	AA	1347	G	P-O3'-C3'	5.44	126.23	119.70
2	AB	57	G	C4-C5-N7	5.44	112.97	110.80
26	BB	94	A	C6-N1-C2	5.44	121.86	118.60
26	BB	252	G	N3-C4-N9	5.44	129.26	126.00
26	BB	324	A	P-O3'-C3'	5.44	126.22	119.70
26	BB	1627	G	N3-C4-N9	-5.44	122.74	126.00
26	BB	1665	A	N9-C4-C5	-5.44	103.62	105.80
26	BB	2325	G	C2-N3-C4	5.44	114.62	111.90
26	BB	2471	A	C5-C6-N1	5.44	120.42	117.70
26	BB	2665	A	C6-C5-N7	-5.44	128.49	132.30
26	BB	2686	G	C8-N9-C4	-5.44	104.22	106.40
26	BB	2894	G	C4'-C3'-C2'	-5.44	97.16	102.60
1	AA	463	U	C5-C6-N1	-5.44	119.98	122.70
1	AA	1306	A	O4'-C1'-C2'	5.44	112.49	107.60
4	AD	36	A	N1-C6-N6	5.44	121.86	118.60
26	BB	222	A	C4-C5-C6	5.44	119.72	117.00
26	BB	242	G	N7-C8-N9	5.44	115.82	113.10
26	BB	247	G	N3-C4-C5	-5.44	125.88	128.60
26	BB	441	U	N3-C4-O4	-5.44	115.59	119.40
26	BB	2142	A	P-O3'-C3'	5.44	126.22	119.70
26	BB	2306	C	C6-N1-C2	-5.44	118.13	120.30
1	AA	197	A	O4'-C4'-C3'	5.43	110.45	106.10
1	AA	422	C	C6-N1-C1'	-5.43	114.28	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	521	G	O4'-C1'-N9	5.43	112.55	108.20
1	AA	991	U	OP2-P-O3'	5.43	117.15	105.20
1	AA	1003	G	C4-C5-N7	-5.43	108.63	110.80
1	AA	1286	U	P-O5'-C5'	5.43	129.60	120.90
1	AA	1456	A	N3-C4-C5	-5.43	123.00	126.80
10	AJ	116	ALA	CB-CA-C	5.43	118.25	110.10
26	BB	80	G	C5-C6-O6	-5.43	125.34	128.60
26	BB	172	A	N3-C4-N9	-5.43	123.05	127.40
26	BB	1190	G	O4'-C1'-N9	5.43	112.55	108.20
26	BB	2396	G	C6-C5-N7	-5.43	127.14	130.40
26	BB	2431	U	N3-C2-O2	-5.43	118.39	122.20
26	BB	2706	A	C6-C5-N7	-5.43	128.50	132.30
37	BM	72	PRO	N-CD-CG	5.43	111.35	103.20
58	B7	7	VAL	CA-CB-CG1	5.43	119.05	110.90
1	AA	91	U	C2'-C3'-O3'	5.43	122.39	113.70
1	AA	324	G	N3-C4-C5	5.43	131.32	128.60
1	AA	490	C	C1'-O4'-C4'	5.43	114.25	109.90
1	AA	600	A	N1-C6-N6	5.43	121.86	118.60
1	AA	639	G	C4-C5-C6	5.43	122.06	118.80
1	AA	665	A	P-O3'-C3'	5.43	126.22	119.70
1	AA	671	G	C4'-C3'-C2'	-5.43	97.17	102.60
1	AA	975	A	C5-N7-C8	-5.43	101.18	103.90
1	AA	1220	G	N3-C2-N2	-5.43	116.10	119.90
25	BA	74	U	C5-C6-N1	-5.43	119.98	122.70
26	BB	34	U	C2'-C3'-O3'	5.43	122.39	113.70
26	BB	645	C	C6-N1-C2	5.43	122.47	120.30
26	BB	1159	U	N3-C4-O4	5.43	123.20	119.40
26	BB	1722	A	C4'-C3'-C2'	-5.43	97.17	102.60
26	BB	2064	C	N1-C2-O2	5.43	122.16	118.90
26	BB	2195	U	N3-C2-O2	-5.43	118.40	122.20
26	BB	2315	G	N3-C4-C5	-5.43	125.88	128.60
26	BB	2565	A	C4-C5-N7	-5.43	107.98	110.70
2	AB	15	A	N9-C1'-C2'	-5.43	106.03	112.00
26	BB	577	G	C8-N9-C4	5.43	108.57	106.40
26	BB	1299	G	C8-N9-C4	-5.43	104.23	106.40
26	BB	1373	A	C2-N3-C4	5.43	113.31	110.60
26	BB	1529	G	C6-C5-N7	-5.43	127.14	130.40
1	AA	402	G	C3'-C2'-C1'	-5.43	97.16	101.50
1	AA	869	G	N7-C8-N9	5.43	115.81	113.10
1	AA	874	G	N3-C2-N2	-5.43	116.10	119.90
1	AA	1504	G	C8-N9-C4	-5.43	104.23	106.40
2	AB	36	A	C5-N7-C8	5.43	106.61	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	67	G	C5-C6-N1	5.43	114.22	111.50
6	AF	42	LEU	CB-CG-CD1	5.43	120.23	111.00
26	BB	231	A	C8-N9-C4	-5.43	103.63	105.80
26	BB	374	A	C4-C5-C6	5.43	119.71	117.00
26	BB	824	U	C3'-C2'-C1'	5.43	105.84	101.50
26	BB	910	A	C6-C5-N7	-5.43	128.50	132.30
26	BB	1068	G	N9-C4-C5	-5.43	103.23	105.40
26	BB	1091	G	N7-C8-N9	5.43	115.81	113.10
26	BB	1178	C	C6-N1-C2	-5.43	118.13	120.30
26	BB	2121	G	C5'-C4'-C3'	5.43	124.69	116.00
26	BB	2264	C	C4-C5-C6	5.43	120.11	117.40
26	BB	2315	G	C4'-C3'-C2'	-5.43	97.17	102.60
26	BB	2565	A	C5-C6-N6	-5.43	119.36	123.70
26	BB	2649	C	O4'-C1'-N1	5.43	112.54	108.20
26	BB	2689	U	N1-C2-N3	-5.43	111.64	114.90
52	B1	50	VAL	CA-CB-CG2	5.43	119.05	110.90
1	AA	731	G	C4-C5-C6	5.43	122.06	118.80
1	AA	893	C	N1-C2-N3	-5.43	115.40	119.20
10	AJ	9	ARG	NE-CZ-NH2	5.43	123.01	120.30
26	BB	779	U	C4'-C3'-C2'	-5.43	97.17	102.60
26	BB	863	A	P-O3'-C3'	5.43	126.21	119.70
26	BB	907	G	C5-C6-O6	-5.43	125.34	128.60
26	BB	2564	A	C4-C5-C6	-5.43	114.29	117.00
54	B3	45	ASP	CB-CG-OD1	-5.43	113.42	118.30
56	B5	9	VAL	CA-CB-CG1	-5.43	102.76	110.90
1	AA	107	G	C5-C6-O6	5.43	131.86	128.60
1	AA	769	G	N3-C4-N9	-5.43	122.75	126.00
1	AA	1171	A	N3-C4-C5	5.43	130.60	126.80
1	AA	1460	C	C6-N1-C2	-5.43	118.13	120.30
8	AH	116	VAL	CG1-CB-CG2	5.43	119.58	110.90
26	BB	58	G	O4'-C4'-C3'	5.43	110.44	106.10
26	BB	81	G	N1-C6-O6	-5.43	116.64	119.90
26	BB	291	G	C6-C5-N7	-5.43	127.14	130.40
26	BB	424	G	C6-N1-C2	-5.43	121.84	125.10
26	BB	701	G	C6-N1-C2	-5.43	121.84	125.10
26	BB	1794	A	C3'-C2'-C1'	-5.43	97.16	101.50
26	BB	1996	C	C5-C4-N4	-5.43	116.40	120.20
26	BB	2111	U	C5-C4-O4	5.43	129.16	125.90
26	BB	2199	A	O4'-C1'-N9	5.43	112.54	108.20
26	BB	2488	G	C8-N9-C4	-5.43	104.23	106.40
26	BB	2697	G	C5-N7-C8	-5.43	101.59	104.30
26	BB	2763	G	C4-C5-N7	5.43	112.97	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	BZ	17	ARG	CB-CA-C	5.43	121.25	110.40
1	AA	50	A	C4'-C3'-C2'	-5.42	97.18	102.60
1	AA	316	C	N3-C4-N4	5.42	121.80	118.00
1	AA	664	G	C8-N9-C4	-5.42	104.23	106.40
1	AA	917	G	C3'-C2'-C1'	-5.42	97.16	101.50
1	AA	1111	A	N1-C6-N6	-5.42	115.34	118.60
1	AA	1130	A	C6-C5-N7	5.42	136.10	132.30
1	AA	1218	C	N1-C1'-C2'	-5.42	106.03	112.00
3	AC	32	U	OP2-P-O3'	5.42	117.13	105.20
20	AT	79	GLU	OE1-CD-OE2	5.42	129.81	123.30
25	BA	107	G	C5'-C4'-O4'	5.42	115.61	109.10
26	BB	127	A	C6-C5-N7	5.42	136.10	132.30
26	BB	159	G	N1-C6-O6	-5.42	116.64	119.90
26	BB	222	A	C2-N3-C4	-5.42	107.89	110.60
26	BB	706	A	C5-C6-N6	5.42	128.04	123.70
26	BB	715	A	N7-C8-N9	5.42	116.51	113.80
26	BB	715	A	N9-C4-C5	5.42	107.97	105.80
26	BB	1035	U	O4'-C4'-C3'	-5.42	98.58	104.00
26	BB	1142	A	N3-C4-N9	-5.42	123.06	127.40
26	BB	1181	U	C2-N3-C4	-5.42	123.75	127.00
26	BB	1438	U	C5'-C4'-O4'	5.42	115.61	109.10
26	BB	1676	A	C4-C5-C6	-5.42	114.29	117.00
26	BB	1949	G	N7-C8-N9	-5.42	110.39	113.10
26	BB	2120	G	C5'-C4'-O4'	5.42	115.61	109.10
26	BB	2198	A	N7-C8-N9	-5.42	111.09	113.80
26	BB	2357	G	C4'-C3'-C2'	-5.42	97.18	102.60
26	BB	2589	A	C4-C5-N7	5.42	113.41	110.70
26	BB	2851	A	C8-N9-C4	-5.42	103.63	105.80
31	BG	104	THR	CA-CB-CG2	5.42	119.99	112.40
1	AA	17	U	C4'-C3'-C2'	-5.42	97.18	102.60
1	AA	371	A	N3-C4-C5	-5.42	123.00	126.80
1	AA	388	G	C5-N7-C8	5.42	107.01	104.30
1	AA	566	G	N7-C8-N9	5.42	115.81	113.10
1	AA	1329	A	C5-N7-C8	5.42	106.61	103.90
25	BA	10	G	C5'-C4'-O4'	5.42	115.61	109.10
26	BB	1013	C	C2-N3-C4	-5.42	117.19	119.90
26	BB	1842	G	N1-C2-N3	-5.42	120.65	123.90
26	BB	2593	U	N1-C2-N3	-5.42	111.65	114.90
40	BP	44	LEU	CB-CA-C	5.42	120.50	110.20
1	AA	212	G	O5'-P-OP2	-5.42	100.82	105.70
1	AA	590	U	C3'-C2'-C1'	5.42	105.84	101.50
1	AA	786	G	N3-C2-N2	-5.42	116.11	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	833	G	N3-C4-C5	-5.42	125.89	128.60
1	AA	1105	A	N7-C8-N9	5.42	116.51	113.80
1	AA	1379	G	N3-C2-N2	5.42	123.69	119.90
1	AA	1534	A	C4-C5-C6	-5.42	114.29	117.00
2	AB	67	G	C4'-C3'-C2'	-5.42	97.18	102.60
4	AD	25	U	N3-C2-O2	-5.42	118.40	122.20
26	BB	163	C	N3-C4-C5	-5.42	119.73	121.90
26	BB	466	A	C4-C5-N7	-5.42	107.99	110.70
26	BB	984	A	C1'-O4'-C4'	-5.42	105.56	109.90
26	BB	1272	A	P-O3'-C3'	5.42	126.20	119.70
26	BB	1440	U	C5'-C4'-O4'	5.42	115.61	109.10
26	BB	1513	U	C2-N3-C4	5.42	130.25	127.00
26	BB	1621	U	C6-N1-C2	-5.42	117.75	121.00
26	BB	1997	C	C4-C5-C6	5.42	120.11	117.40
26	BB	2435	A	C2-N3-C4	5.42	113.31	110.60
1	AA	305	G	N1-C6-O6	-5.42	116.65	119.90
1	AA	844	G	C8-N9-C4	-5.42	104.23	106.40
1	AA	1536	C	N3-C4-N4	5.42	121.79	118.00
26	BB	273	G	N1-C2-N2	5.42	121.08	116.20
26	BB	920	A	C5'-C4'-O4'	5.42	115.60	109.10
26	BB	1820	U	N1-C2-O2	5.42	126.59	122.80
26	BB	1918	A	C5-N7-C8	-5.42	101.19	103.90
1	AA	1415	G	N1-C2-N2	-5.42	111.32	116.20
1	AA	1442	G	N1-C2-N2	-5.42	111.32	116.20
1	AA	1449	C	N1-C2-O2	5.42	122.15	118.90
26	BB	377	G	C8-N9-C4	-5.42	104.23	106.40
26	BB	814	C	N3-C4-C5	-5.42	119.73	121.90
26	BB	838	C	C6-N1-C2	-5.42	118.13	120.30
26	BB	1197	G	C1'-O4'-C4'	5.42	114.23	109.90
26	BB	1437	C	N3-C2-O2	-5.42	118.11	121.90
26	BB	2631	G	N3-C4-N9	-5.42	122.75	126.00
26	BB	2678	C	N1-C1'-C2'	-5.42	106.04	112.00
26	BB	2679	A	C3'-C2'-C1'	-5.42	97.17	101.50
26	BB	2830	C	C1'-O4'-C4'	-5.42	105.56	109.90
28	BD	269	ARG	NE-CZ-NH2	-5.42	117.59	120.30
1	AA	67	C	C4'-C3'-C2'	-5.42	97.18	102.60
1	AA	211	G	C4-C5-N7	5.42	112.97	110.80
1	AA	517	G	N7-C8-N9	5.42	115.81	113.10
2	AB	60	U	C4-C5-C6	-5.42	116.45	119.70
14	AN	12	ARG	NH1-CZ-NH2	5.42	125.36	119.40
25	BA	72	G	C4'-C3'-C2'	-5.42	97.18	102.60
26	BB	341	C	O4'-C4'-C3'	5.42	110.43	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	468	G	C5-C6-O6	-5.42	125.35	128.60
26	BB	662	G	N3-C4-C5	-5.42	125.89	128.60
26	BB	722	A	N9-C4-C5	5.42	107.97	105.80
26	BB	1238	G	N9-C1'-C2'	-5.42	106.04	112.00
26	BB	1308	A	C1'-O4'-C4'	5.42	114.23	109.90
26	BB	1466	U	C5-C4-O4	-5.42	122.65	125.90
26	BB	1777	U	N3-C4-C5	5.42	117.85	114.60
26	BB	2010	G	C5'-C4'-C3'	-5.42	107.33	116.00
26	BB	2250	G	N9-C4-C5	5.42	107.57	105.40
26	BB	2808	G	C1'-O4'-C4'	5.42	114.23	109.90
1	AA	122	G	O4'-C1'-N9	5.42	112.53	108.20
1	AA	194	C	N1-C2-O2	5.42	122.15	118.90
1	AA	809	G	N1-C2-N2	5.42	121.07	116.20
26	BB	88	G	N9-C4-C5	5.42	107.57	105.40
26	BB	822	G	C4-C5-C6	5.42	122.05	118.80
26	BB	1184	U	N3-C4-O4	5.42	123.19	119.40
26	BB	1789	A	C5'-C4'-C3'	-5.42	107.34	116.00
26	BB	2377	A	C6-N1-C2	5.42	121.85	118.60
26	BB	2472	G	N1-C2-N3	5.42	127.15	123.90
1	AA	491	G	N9-C4-C5	5.41	107.57	105.40
1	AA	550	G	N3-C4-N9	-5.41	122.75	126.00
1	AA	561	U	N3-C2-O2	-5.41	118.41	122.20
1	AA	578	C	N3-C4-C5	-5.41	119.73	121.90
1	AA	890	G	N1-C2-N2	5.41	121.07	116.20
1	AA	1026	G	C5'-C4'-C3'	-5.41	107.34	116.00
26	BB	398	C	N1-C2-O2	5.41	122.15	118.90
26	BB	541	A	O4'-C1'-N9	5.41	112.53	108.20
26	BB	1006	C	C5-C6-N1	5.41	123.71	121.00
26	BB	1603	A	O4'-C1'-N9	5.41	112.53	108.20
26	BB	1751	U	C5-C6-N1	-5.41	119.99	122.70
26	BB	2048	G	N3-C4-N9	5.41	129.25	126.00
26	BB	2060	A	C3'-C2'-C1'	5.41	105.83	101.50
26	BB	2361	G	C5-N7-C8	-5.41	101.59	104.30
27	BC	74	ARG	N-CA-CB	5.41	120.34	110.60
1	AA	237	G	N3-C4-N9	-5.41	122.75	126.00
1	AA	779	C	N1-C2-O2	5.41	122.15	118.90
1	AA	1188	A	C3'-C2'-C1'	-5.41	97.17	101.50
1	AA	1242	G	O4'-C1'-N9	5.41	112.53	108.20
1	AA	1522	U	N3-C4-C5	-5.41	111.35	114.60
26	BB	373	U	N3-C4-O4	5.41	123.19	119.40
26	BB	424	G	C8-N9-C4	-5.41	104.23	106.40
26	BB	1173	U	N1-C2-O2	5.41	126.59	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1519	G	C2-N3-C4	5.41	114.61	111.90
26	BB	2686	G	C6-N1-C2	-5.41	121.85	125.10
26	BB	2703	C	O3'-P-O5'	-5.41	93.72	104.00
26	BB	2816	G	N1-C6-O6	-5.41	116.65	119.90
1	AA	117	G	C6-N1-C2	-5.41	121.85	125.10
1	AA	292	G	C6-C5-N7	5.41	133.65	130.40
1	AA	321	A	N3-C4-N9	-5.41	123.07	127.40
1	AA	442	G	C5'-C4'-C3'	-5.41	107.34	116.00
1	AA	483	C	C4-C5-C6	-5.41	114.69	117.40
1	AA	747	A	C6-C5-N7	5.41	136.09	132.30
1	AA	836	G	C4-C5-N7	5.41	112.96	110.80
1	AA	872	A	C5-N7-C8	5.41	106.61	103.90
1	AA	906	A	N9-C4-C5	-5.41	103.64	105.80
1	AA	927	G	N1-C2-N3	-5.41	120.65	123.90
9	AI	117	ALA	O-C-N	-5.41	114.04	122.70
22	AV	33	TRP	CG-CD2-CE3	5.41	138.77	133.90
24	AX	70	TYR	CG-CD1-CE1	-5.41	116.97	121.30
26	BB	118	A	C5'-C4'-O4'	5.41	115.59	109.10
26	BB	125	A	O4'-C1'-C2'	5.41	112.47	107.60
26	BB	539	G	O4'-C1'-C2'	5.41	112.47	107.60
26	BB	633	A	O3'-P-O5'	-5.41	93.72	104.00
26	BB	901	C	N1-C2-N3	5.41	122.99	119.20
26	BB	1274	A	C4-C5-C6	5.41	119.70	117.00
26	BB	1397	U	C5-C4-O4	5.41	129.15	125.90
26	BB	1458	U	C4-C5-C6	5.41	122.95	119.70
26	BB	1797	G	N1-C2-N2	5.41	121.07	116.20
26	BB	1877	A	O4'-C4'-C3'	5.41	110.43	106.10
26	BB	1966	A	N3-C4-C5	-5.41	123.01	126.80
26	BB	2400	G	O4'-C1'-N9	-5.41	103.87	108.20
26	BB	2549	G	N1-C2-N2	-5.41	111.33	116.20
26	BB	2743	U	N1-C2-O2	-5.41	119.01	122.80
28	BD	95	TYR	CG-CD1-CE1	-5.41	116.97	121.30
37	BM	59	LYS	N-CA-CB	-5.41	100.86	110.60
37	BM	100	PHE	CB-CG-CD1	-5.41	117.01	120.80
38	BN	70	LYS	C-N-CA	5.41	135.22	121.70
40	BP	80	PHE	CB-CG-CD1	-5.41	117.01	120.80
44	BT	68	ARG	NE-CZ-NH1	5.41	123.01	120.30
1	AA	210	C	N3-C4-C5	5.41	124.06	121.90
1	AA	259	G	C5-N7-C8	-5.41	101.60	104.30
1	AA	453	G	C6-C5-N7	5.41	133.65	130.40
1	AA	611	C	N3-C4-N4	5.41	121.78	118.00
1	AA	903	G	C3'-C2'-C1'	5.41	105.83	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	920	U	C3'-C2'-C1'	5.41	105.83	101.50
1	AA	1117	A	C5-C6-N6	5.41	128.03	123.70
2	AB	58	A	N1-C6-N6	-5.41	115.35	118.60
4	AD	6	G	N3-C2-N2	-5.41	116.11	119.90
5	AE	81	ASP	CB-CG-OD2	-5.41	113.43	118.30
7	AG	66	VAL	CA-CB-CG2	5.41	119.01	110.90
8	AH	136	VAL	CA-CB-CG2	5.41	119.01	110.90
26	BB	623	C	C5'-C4'-O4'	5.41	115.59	109.10
26	BB	636	G	O4'-C1'-N9	5.41	112.53	108.20
26	BB	997	G	C5'-C4'-O4'	5.41	115.59	109.10
26	BB	1048	A	C5-C6-N6	-5.41	119.37	123.70
26	BB	1355	G	C5'-C4'-O4'	5.41	115.59	109.10
26	BB	1763	G	N3-C4-C5	-5.41	125.90	128.60
26	BB	1804	C	N3-C2-O2	-5.41	118.11	121.90
26	BB	1980	G	C4-C5-C6	-5.41	115.56	118.80
26	BB	2427	C	C2-N1-C1'	-5.41	112.85	118.80
26	BB	2671	G	C2-N3-C4	5.41	114.60	111.90
1	AA	78	A	N7-C8-N9	5.41	116.50	113.80
1	AA	686	U	C5-C4-O4	5.41	129.14	125.90
26	BB	167	A	C6-N1-C2	5.41	121.84	118.60
26	BB	314	C	C4'-C3'-C2'	5.41	108.01	102.60
26	BB	1863	G	N1-C2-N3	5.41	127.14	123.90
37	BM	77	ILE	CG1-CB-CG2	-5.41	99.50	111.40
41	BQ	9	ARG	NE-CZ-NH2	5.41	123.00	120.30
1	AA	457	G	C4-C5-N7	-5.41	108.64	110.80
1	AA	1220	G	N9-C1'-C2'	-5.41	106.05	112.00
9	AI	26	THR	CA-CB-CG2	5.41	119.97	112.40
25	BA	100	G	C1'-O4'-C4'	-5.41	105.58	109.90
26	BB	67	U	C5'-C4'-C3'	5.41	124.65	116.00
26	BB	94	A	N1-C2-N3	-5.41	126.60	129.30
26	BB	522	A	C5'-C4'-O4'	5.41	115.59	109.10
26	BB	723	C	P-O3'-C3'	5.41	126.19	119.70
26	BB	1022	G	C1'-O4'-C4'	-5.41	105.58	109.90
26	BB	1598	A	C5'-C4'-C3'	-5.41	107.35	116.00
26	BB	1889	A	N1-C6-N6	-5.41	115.36	118.60
26	BB	1894	C	N3-C2-O2	-5.41	118.12	121.90
26	BB	1909	C	N1-C2-N3	-5.41	115.42	119.20
26	BB	1953	A	C5-N7-C8	-5.41	101.20	103.90
26	BB	2018	G	N1-C2-N3	-5.41	120.66	123.90
26	BB	2764	A	N3-C4-C5	-5.41	123.02	126.80
1	AA	152	A	C2-N3-C4	5.40	113.30	110.60
1	AA	225	C	C2-N3-C4	5.40	122.60	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	268	U	C4'-C3'-C2'	-5.40	97.20	102.60
26	BB	2581	G	C4'-C3'-C2'	-5.40	97.20	102.60
56	B5	41	ARG	NE-CZ-NH1	-5.40	117.60	120.30
1	AA	142	G	C5'-C4'-O4'	5.40	115.58	109.10
1	AA	152	A	C6-N1-C2	5.40	121.84	118.60
1	AA	204	G	N1-C6-O6	-5.40	116.66	119.90
1	AA	668	G	N3-C4-C5	5.40	131.30	128.60
1	AA	694	A	N9-C4-C5	-5.40	103.64	105.80
1	AA	861	G	O4'-C1'-N9	5.40	112.52	108.20
1	AA	991	U	N1-C1'-C2'	-5.40	106.06	112.00
1	AA	1260	G	N1-C2-N2	-5.40	111.34	116.20
25	BA	3	C	C3'-C2'-C1'	-5.40	97.18	101.50
25	BA	10	G	C5-C6-O6	-5.40	125.36	128.60
26	BB	678	C	C5'-C4'-O4'	5.40	115.58	109.10
26	BB	1056	G	N9-C1'-C2'	-5.40	106.06	112.00
26	BB	1468	U	C3'-C2'-C1'	5.40	105.82	101.50
26	BB	1970	A	C4-C5-C6	5.40	119.70	117.00
26	BB	2168	G	C5-N7-C8	5.40	107.00	104.30
26	BB	2776	A	N1-C2-N3	-5.40	126.60	129.30
32	BH	108	PHE	CB-CG-CD1	5.40	124.58	120.80
53	B2	42	PRO	N-CA-CB	5.40	109.78	103.30
1	AA	279	A	N1-C2-N3	5.40	132.00	129.30
1	AA	729	A	N3-C4-C5	-5.40	123.02	126.80
1	AA	796	C	C6-N1-C2	5.40	122.46	120.30
5	AE	20	ARG	N-CA-CB	-5.40	100.88	110.60
26	BB	185	G	O4'-C1'-N9	5.40	112.52	108.20
26	BB	340	A	N3-C4-C5	-5.40	123.02	126.80
26	BB	408	G	N7-C8-N9	5.40	115.80	113.10
26	BB	597	G	C6-N1-C2	-5.40	121.86	125.10
26	BB	623	C	C5-C4-N4	-5.40	116.42	120.20
26	BB	646	U	O4'-C1'-N1	5.40	112.52	108.20
26	BB	653	U	N3-C2-O2	-5.40	118.42	122.20
26	BB	901	C	C1'-O4'-C4'	-5.40	105.58	109.90
26	BB	908	C	C5-C6-N1	-5.40	118.30	121.00
26	BB	947	A	O5'-C5'-C4'	-5.40	101.44	111.70
26	BB	1136	G	C4'-C3'-C2'	-5.40	97.20	102.60
26	BB	2240	U	C2-N3-C4	-5.40	123.76	127.00
26	BB	2398	U	C5-C4-O4	5.40	129.14	125.90
26	BB	2425	A	N9-C4-C5	5.40	107.96	105.80
26	BB	2441	U	C2-N1-C1'	5.40	124.18	117.70
26	BB	2533	U	O3'-P-O5'	-5.40	93.74	104.00
26	BB	2645	G	C5-C6-N1	5.40	114.20	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2765	A	C4'-C3'-C2'	-5.40	97.20	102.60
1	AA	211	G	C5-C6-O6	5.40	131.84	128.60
1	AA	1250	A	C2-N3-C4	-5.40	107.90	110.60
1	AA	1488	G	N9-C4-C5	-5.40	103.24	105.40
1	AA	1491	G	C4'-C3'-C2'	-5.40	97.20	102.60
1	AA	1539	C	C2-N3-C4	-5.40	117.20	119.90
26	BB	122	G	C8-N9-C4	5.40	108.56	106.40
26	BB	470	A	C4'-C3'-C2'	-5.40	97.20	102.60
26	BB	1490	A	O4'-C1'-N9	5.40	112.52	108.20
26	BB	1544	A	O4'-C1'-N9	5.40	112.52	108.20
26	BB	2466	C	C1'-O4'-C4'	5.40	114.22	109.90
26	BB	2892	G	C5-C6-N1	5.40	114.20	111.50
29	BE	189	VAL	CG1-CB-CG2	-5.40	102.26	110.90
1	AA	82	G	O4'-C1'-N9	5.40	112.52	108.20
1	AA	398	U	C5'-C4'-O4'	5.40	115.58	109.10
1	AA	769	G	C1'-O4'-C4'	-5.40	105.58	109.90
1	AA	1328	C	N3-C4-N4	5.40	121.78	118.00
26	BB	213	A	C8-N9-C4	-5.40	103.64	105.80
26	BB	220	G	P-O3'-C3'	5.40	126.18	119.70
26	BB	342	A	O5'-C5'-C4'	-5.40	101.45	111.70
26	BB	954	G	N1-C6-O6	5.40	123.14	119.90
26	BB	1046	A	N9-C4-C5	5.40	107.96	105.80
26	BB	1061	U	C5'-C4'-O4'	5.40	115.58	109.10
26	BB	1144	A	O3'-P-O5'	-5.40	93.74	104.00
26	BB	1304	A	C5-C6-N6	-5.40	119.38	123.70
26	BB	1455	G	P-O5'-C5'	5.40	129.54	120.90
26	BB	1465	G	C8-N9-C4	-5.40	104.24	106.40
26	BB	1509	A	N7-C8-N9	-5.40	111.10	113.80
26	BB	1825	U	N3-C4-C5	-5.40	111.36	114.60
26	BB	1851	U	N1-C1'-C2'	-5.40	106.06	112.00
26	BB	2347	C	O5'-C5'-C4'	5.40	121.95	111.70
26	BB	2887	A	C6-N1-C2	-5.40	115.36	118.60
44	BT	92	TRP	NE1-CE2-CD2	-5.40	101.90	107.30
47	BW	72	PHE	CB-CG-CD2	5.40	124.58	120.80
50	BZ	27	ARG	CB-CA-C	5.40	121.20	110.40
1	AA	62	U	N3-C2-O2	-5.40	118.42	122.20
1	AA	551	U	O4'-C1'-N1	5.40	112.52	108.20
26	BB	130	C	C6-N1-C2	-5.40	118.14	120.30
26	BB	1009	A	C5-N7-C8	-5.40	101.20	103.90
26	BB	1245	G	C1'-O4'-C4'	5.40	114.22	109.90
26	BB	1600	C	C4-C5-C6	5.40	120.10	117.40
26	BB	1948	G	C5-C6-N1	5.40	114.20	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2115	G	C5-C6-O6	-5.40	125.36	128.60
1	AA	57	G	N7-C8-N9	5.39	115.80	113.10
1	AA	104	G	C5'-C4'-O4'	5.39	115.57	109.10
1	AA	498	A	C5-N7-C8	5.39	106.60	103.90
1	AA	501	C	O3'-P-O5'	5.39	114.25	104.00
1	AA	1004	A	N7-C8-N9	5.39	116.50	113.80
1	AA	1160	G	C5-N7-C8	-5.39	101.60	104.30
1	AA	1262	C	O4'-C1'-N1	5.39	112.52	108.20
1	AA	1276	G	C8-N9-C4	-5.39	104.24	106.40
1	AA	1385	G	N1-C6-O6	-5.39	116.66	119.90
1	AA	1406	U	N3-C4-O4	5.39	123.18	119.40
1	AA	1521	C	C2'-C3'-O3'	5.39	122.33	113.70
4	AD	65	G	N9-C4-C5	5.39	107.56	105.40
25	BA	10	G	C4'-C3'-C2'	-5.39	97.20	102.60
26	BB	301	G	C6-N1-C2	-5.39	121.86	125.10
26	BB	433	C	P-O3'-C3'	5.39	126.17	119.70
26	BB	567	U	C5'-C4'-O4'	5.39	115.57	109.10
26	BB	694	U	C2-N3-C4	-5.39	123.76	127.00
26	BB	1201	U	C5'-C4'-C3'	-5.39	107.37	116.00
26	BB	1892	C	P-O3'-C3'	5.39	126.17	119.70
26	BB	2216	G	C6-C5-N7	-5.39	127.16	130.40
26	BB	2249	U	O4'-C4'-C3'	5.39	110.42	106.10
26	BB	2314	A	C5'-C4'-C3'	-5.39	107.37	116.00
26	BB	2455	G	C4-C5-C6	5.39	122.04	118.80
26	BB	2462	C	N3-C4-C5	5.39	124.06	121.90
26	BB	2718	G	C3'-C2'-C1'	-5.39	97.19	101.50
29	BE	45	TYR	CB-CG-CD2	-5.39	117.76	121.00
1	AA	92	U	C6-N1-C2	5.39	124.24	121.00
1	AA	122	G	N1-C2-N2	5.39	121.05	116.20
1	AA	504	C	O4'-C1'-C2'	5.39	112.45	107.60
1	AA	573	A	N9-C4-C5	5.39	107.96	105.80
1	AA	1150	A	O4'-C4'-C3'	5.39	110.41	106.10
1	AA	1472	U	N1-C2-N3	5.39	118.14	114.90
3	AC	35	G	N1-C6-O6	-5.39	116.66	119.90
3	AC	42	U	N1-C1'-C2'	5.39	121.01	114.00
4	AD	46	G	N9-C4-C5	5.39	107.56	105.40
26	BB	207	A	C3'-C2'-C1'	-5.39	97.19	101.50
26	BB	824	U	C5'-C4'-C3'	-5.39	107.37	116.00
26	BB	981	A	O5'-C5'-C4'	5.39	121.94	111.70
26	BB	1236	G	C8-N9-C4	-5.39	104.24	106.40
26	BB	1358	G	O4'-C1'-N9	-5.39	103.89	108.20
26	BB	1416	G	OP2-P-O3'	5.39	117.06	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1588	G	N9-C4-C5	5.39	107.56	105.40
26	BB	2621	G	C5-N7-C8	5.39	107.00	104.30
26	BB	2729	G	C5-C6-N1	5.39	114.20	111.50
44	BT	79	ARG	CD-NE-CZ	5.39	131.15	123.60
1	AA	15	G	C5-C6-O6	-5.39	125.37	128.60
1	AA	1220	G	N1-C6-O6	-5.39	116.67	119.90
14	AN	76	TYR	CB-CG-CD2	-5.39	117.77	121.00
26	BB	563	A	C2-N3-C4	-5.39	107.91	110.60
26	BB	2319	G	C5-C6-O6	-5.39	125.37	128.60
26	BB	2398	U	C5-C6-N1	-5.39	120.00	122.70
1	AA	147	G	C4-C5-N7	-5.39	108.64	110.80
1	AA	281	G	N3-C4-C5	-5.39	125.91	128.60
1	AA	451	A	C4'-C3'-C2'	5.39	107.99	102.60
1	AA	559	A	C5'-C4'-C3'	-5.39	107.38	116.00
1	AA	1379	G	N1-C6-O6	5.39	123.13	119.90
26	BB	30	G	C4'-C3'-C2'	-5.39	97.21	102.60
26	BB	135	U	C6-N1-C2	-5.39	117.77	121.00
26	BB	245	G	C6-C5-N7	-5.39	127.17	130.40
26	BB	327	G	C4-C5-C6	5.39	122.03	118.80
26	BB	477	A	N1-C6-N6	-5.39	115.37	118.60
26	BB	617	G	C6-C5-N7	-5.39	127.17	130.40
26	BB	2233	U	P-O3'-C3'	5.39	126.17	119.70
26	BB	2278	A	N1-C6-N6	5.39	121.83	118.60
26	BB	2391	G	N9-C4-C5	5.39	107.56	105.40
26	BB	2476	A	C2-N3-C4	-5.39	107.91	110.60
26	BB	2624	G	N3-C2-N2	-5.39	116.13	119.90
26	BB	2669	G	N9-C4-C5	5.39	107.56	105.40
26	BB	2673	G	N3-C4-C5	-5.39	125.91	128.60
26	BB	2873	A	O4'-C1'-N9	5.39	112.51	108.20
26	BB	2883	A	C4-C5-N7	-5.39	108.00	110.70
1	AA	105	G	P-O5'-C5'	5.39	129.52	120.90
1	AA	413	G	C6-C5-N7	5.39	133.63	130.40
1	AA	900	A	N1-C6-N6	-5.39	115.37	118.60
26	BB	895	U	O4'-C1'-C2'	-5.39	100.41	105.80
26	BB	2110	G	C8-N9-C4	-5.39	104.25	106.40
1	AA	249	U	N1-C2-N3	5.39	118.13	114.90
1	AA	565	U	C5-C6-N1	-5.39	120.01	122.70
1	AA	616	G	C5-C6-N1	5.39	114.19	111.50
1	AA	794	A	C5-C6-N6	-5.39	119.39	123.70
1	AA	859	G	C5'-C4'-O4'	5.39	115.56	109.10
1	AA	886	G	N1-C2-N3	5.39	127.13	123.90
1	AA	963	G	C5-N7-C8	-5.39	101.61	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1011	C	N1-C2-O2	5.39	122.13	118.90
1	AA	1471	U	C6-N1-C2	-5.39	117.77	121.00
1	AA	1479	C	O3'-P-O5'	-5.39	93.77	104.00
18	AR	70	LYS	N-CA-CB	-5.39	100.90	110.60
18	AR	79	ARG	CD-NE-CZ	5.39	131.14	123.60
25	BA	97	C	C5-C4-N4	5.39	123.97	120.20
25	BA	112	G	C2-N3-C4	5.39	114.59	111.90
26	BB	55	G	C6-C5-N7	5.39	133.63	130.40
26	BB	327	G	C2-N3-C4	5.39	114.59	111.90
26	BB	1242	U	C5-C4-O4	-5.39	122.67	125.90
26	BB	2430	A	N9-C1'-C2'	5.39	121.00	114.00
26	BB	2758	A	C5-N7-C8	-5.39	101.21	103.90
26	BB	2821	A	C6-C5-N7	-5.39	128.53	132.30
28	BD	211	ARG	CA-C-O	-5.39	108.79	120.10
30	BF	52	VAL	CA-CB-CG1	-5.39	102.82	110.90
1	AA	501	C	O4'-C4'-C3'	-5.38	98.61	104.00
1	AA	804	U	C5'-C4'-C3'	-5.38	107.38	116.00
1	AA	864	A	N3-C4-N9	5.38	131.71	127.40
1	AA	1103	C	C4-C5-C6	5.38	120.09	117.40
1	AA	1337	G	N3-C4-C5	-5.38	125.91	128.60
1	AA	1401	G	N3-C4-N9	-5.38	122.77	126.00
1	AA	1536	C	C5-C4-N4	-5.38	116.43	120.20
26	BB	240	C	C4'-C3'-C2'	-5.38	97.22	102.60
26	BB	944	C	C6-N1-C2	5.38	122.45	120.30
26	BB	999	U	C2-N3-C4	-5.38	123.77	127.00
26	BB	1053	C	N1-C2-O2	5.38	122.13	118.90
26	BB	1147	A	P-O3'-C3'	5.38	126.16	119.70
26	BB	1402	U	C6-N1-C2	-5.38	117.77	121.00
26	BB	1620	G	P-O3'-C3'	5.38	126.16	119.70
26	BB	1836	C	O4'-C1'-N1	5.38	112.51	108.20
26	BB	1849	G	C5-N7-C8	5.38	106.99	104.30
26	BB	2046	G	C5-C6-N1	5.38	114.19	111.50
26	BB	2085	U	O4'-C1'-N1	5.38	112.51	108.20
26	BB	2331	G	C5'-C4'-O4'	5.38	115.56	109.10
26	BB	2501	C	C4'-C3'-O3'	5.38	123.77	113.00
31	BG	21	TYR	CG-CD2-CE2	-5.38	116.99	121.30
47	BW	13	LEU	CB-CG-CD1	-5.38	101.85	111.00
1	AA	317	U	C5-C6-N1	-5.38	120.01	122.70
1	AA	451	A	C5-N7-C8	5.38	106.59	103.90
1	AA	634	C	N3-C4-C5	5.38	124.05	121.90
1	AA	1197	A	N7-C8-N9	-5.38	111.11	113.80
6	AF	131	ARG	CD-NE-CZ	5.38	131.14	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	807	U	C5-C4-O4	-5.38	122.67	125.90
26	BB	863	A	N9-C4-C5	5.38	107.95	105.80
26	BB	1145	C	C5'-C4'-O4'	5.38	115.56	109.10
26	BB	2095	A	C8-N9-C4	-5.38	103.65	105.80
26	BB	2538	C	N1-C2-O2	5.38	122.13	118.90
26	BB	2672	U	C5-C4-O4	-5.38	122.67	125.90
1	AA	9	G	N1-C2-N3	-5.38	120.67	123.90
1	AA	485	U	C1'-O4'-C4'	-5.38	105.59	109.90
1	AA	580	C	C2-N1-C1'	-5.38	112.88	118.80
1	AA	877	G	C6-N1-C2	-5.38	121.87	125.10
1	AA	940	C	C2-N3-C4	5.38	122.59	119.90
1	AA	1058	G	C3'-C2'-C1'	-5.38	97.19	101.50
1	AA	1260	G	C5-C6-O6	-5.38	125.37	128.60
1	AA	1297	G	N7-C8-N9	-5.38	110.41	113.10
1	AA	1424	U	O4'-C1'-N1	5.38	112.50	108.20
2	AB	28	C	N3-C4-C5	5.38	124.05	121.90
20	AT	56	ASP	CB-CG-OD1	-5.38	113.46	118.30
26	BB	100	U	N3-C4-C5	-5.38	111.37	114.60
26	BB	184	C	C4-C5-C6	5.38	120.09	117.40
26	BB	453	A	O4'-C1'-N9	5.38	112.50	108.20
26	BB	500	G	C6-C5-N7	-5.38	127.17	130.40
26	BB	621	A	C1'-O4'-C4'	-5.38	105.59	109.90
26	BB	1174	U	C6-N1-C2	-5.38	117.77	121.00
26	BB	1432	G	C6-N1-C2	-5.38	121.87	125.10
26	BB	1587	G	N9-C4-C5	-5.38	103.25	105.40
26	BB	2032	G	N7-C8-N9	5.38	115.79	113.10
26	BB	2409	G	N3-C4-C5	5.38	131.29	128.60
26	BB	2439	A	C2-N3-C4	5.38	113.29	110.60
26	BB	2461	A	C8-N9-C4	5.38	107.95	105.80
26	BB	2867	G	C6-C5-N7	5.38	133.63	130.40
1	AA	521	G	N9-C1'-C2'	-5.38	106.08	112.00
1	AA	849	G	C1'-O4'-C4'	-5.38	105.60	109.90
1	AA	944	G	C4'-C3'-C2'	-5.38	97.22	102.60
1	AA	1156	G	O5'-P-OP2	-5.38	100.86	105.70
4	AD	59	A	P-O3'-C3'	5.38	126.16	119.70
26	BB	220	G	O4'-C1'-N9	5.38	112.50	108.20
26	BB	953	G	C6-N1-C2	-5.38	121.87	125.10
26	BB	1461	C	C5-C4-N4	-5.38	116.43	120.20
26	BB	1745	A	N9-C4-C5	5.38	107.95	105.80
26	BB	2186	G	C8-N9-C4	-5.38	104.25	106.40
41	BQ	94	ARG	NE-CZ-NH2	-5.38	117.61	120.30
1	AA	123	U	C4-C5-C6	5.38	122.93	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	429	U	C4'-C3'-C2'	-5.38	97.22	102.60
1	AA	484	G	P-O3'-C3'	5.38	126.16	119.70
1	AA	1070	U	C6-N1-C2	-5.38	117.77	121.00
1	AA	1318	A	C5'-C4'-C3'	-5.38	107.39	116.00
2	AB	59	G	C4-C5-N7	-5.38	108.65	110.80
22	AV	19	GLU	OE1-CD-OE2	5.38	129.75	123.30
25	BA	62	C	N1-C2-N3	5.38	122.97	119.20
26	BB	13	A	N1-C2-N3	5.38	131.99	129.30
26	BB	85	G	N9-C1'-C2'	-5.38	106.08	112.00
26	BB	101	A	C5-C6-N6	-5.38	119.40	123.70
26	BB	448	U	N1-C2-N3	5.38	118.13	114.90
26	BB	750	A	C4'-C3'-C2'	5.38	107.98	102.60
26	BB	1183	U	N3-C2-O2	-5.38	118.44	122.20
26	BB	1422	G	O4'-C1'-N9	5.38	112.50	108.20
26	BB	1551	A	C8-N9-C4	-5.38	103.65	105.80
26	BB	1945	G	P-O3'-C3'	5.38	126.15	119.70
1	AA	299	G	C5-C6-N1	-5.38	108.81	111.50
1	AA	500	G	N1-C2-N2	5.38	121.04	116.20
1	AA	564	C	C5-C4-N4	5.38	123.96	120.20
1	AA	682	G	N1-C2-N2	-5.38	111.36	116.20
1	AA	861	G	N3-C4-C5	-5.38	125.91	128.60
1	AA	884	U	C6-N1-C2	-5.38	117.78	121.00
1	AA	1022	A	C4'-C3'-C2'	-5.38	97.22	102.60
1	AA	1487	G	C4'-C3'-C2'	-5.38	97.22	102.60
2	AB	26	A	N3-C4-N9	5.38	131.70	127.40
3	AC	31	U	C5'-C4'-O4'	5.38	115.55	109.10
26	BB	81	G	C4-C5-N7	5.38	112.95	110.80
26	BB	170	U	C5-C6-N1	5.38	125.39	122.70
26	BB	490	C	C3'-C2'-C1'	-5.38	97.20	101.50
26	BB	597	G	C2-N3-C4	5.38	114.59	111.90
26	BB	673	C	N3-C4-N4	5.38	121.76	118.00
26	BB	832	U	N3-C2-O2	-5.38	118.44	122.20
26	BB	1657	U	C5-C6-N1	-5.38	120.01	122.70
26	BB	1741	C	O4'-C1'-N1	5.38	112.50	108.20
26	BB	1903	G	C2-N3-C4	5.38	114.59	111.90
26	BB	2371	G	C5'-C4'-O4'	5.38	115.55	109.10
26	BB	2553	G	C5'-C4'-O4'	-5.38	102.65	109.10
26	BB	2753	A	C6-C5-N7	5.38	136.06	132.30
1	AA	1072	G	N7-C8-N9	5.38	115.79	113.10
4	AD	67	C	N3-C2-O2	-5.38	118.14	121.90
26	BB	172	A	N9-C4-C5	5.38	107.95	105.80
26	BB	600	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	822	G	O4'-C1'-N9	5.38	112.50	108.20
26	BB	905	A	C5-C6-N6	-5.38	119.40	123.70
1	AA	291	U	C4'-C3'-C2'	-5.37	97.23	102.60
1	AA	342	C	C5'-C4'-O4'	5.37	115.55	109.10
1	AA	550	G	C4-C5-N7	-5.37	108.65	110.80
1	AA	994	A	C5'-C4'-O4'	5.37	115.55	109.10
1	AA	1456	A	C5-N7-C8	-5.37	101.21	103.90
2	AB	34	C	C4-C5-C6	5.37	120.09	117.40
26	BB	149	A	N3-C4-C5	-5.37	123.04	126.80
26	BB	204	A	N1-C2-N3	-5.37	126.61	129.30
26	BB	838	C	C5'-C4'-C3'	-5.37	107.40	116.00
26	BB	999	U	C1'-O4'-C4'	-5.37	105.60	109.90
26	BB	1246	A	N9-C1'-C2'	-5.37	106.09	112.00
26	BB	1349	C	C5-C6-N1	-5.37	118.31	121.00
26	BB	1448	G	C1'-O4'-C4'	-5.37	105.60	109.90
26	BB	1559	U	C4-C5-C6	5.37	122.92	119.70
26	BB	1937	A	O4'-C1'-N9	5.37	112.50	108.20
26	BB	1989	G	N3-C4-N9	5.37	129.22	126.00
26	BB	2341	G	N9-C4-C5	5.37	107.55	105.40
26	BB	2848	G	C6-N1-C2	-5.37	121.88	125.10
28	BD	66	PHE	CD1-CE1-CZ	-5.37	113.65	120.10
1	AA	44	A	C1'-O4'-C4'	-5.37	105.60	109.90
1	AA	146	G	N9-C1'-C2'	-5.37	106.09	112.00
1	AA	262	A	C8-N9-C4	5.37	107.95	105.80
1	AA	608	A	N3-C4-N9	5.37	131.70	127.40
1	AA	1113	C	O4'-C1'-N1	5.37	112.50	108.20
1	AA	1243	C	O4'-C1'-N1	5.37	112.50	108.20
1	AA	1336	C	N1-C1'-C2'	-5.37	106.09	112.00
1	AA	1477	U	C5-C6-N1	-5.37	120.01	122.70
4	AD	28	U	C2-N3-C4	-5.37	123.78	127.00
25	BA	117	G	O4'-C1'-N9	5.37	112.50	108.20
26	BB	41	C	C2-N3-C4	-5.37	117.22	119.90
26	BB	235	U	N3-C2-O2	-5.37	118.44	122.20
26	BB	359	G	N3-C4-N9	5.37	129.22	126.00
26	BB	750	A	N3-C4-C5	5.37	130.56	126.80
26	BB	849	A	N3-C4-N9	5.37	131.70	127.40
26	BB	1760	C	C4'-C3'-C2'	-5.37	97.23	102.60
26	BB	1886	U	N3-C4-O4	5.37	123.16	119.40
26	BB	1929	G	N7-C8-N9	5.37	115.79	113.10
26	BB	1993	U	OP1-P-OP2	-5.37	111.54	119.60
26	BB	2135	A	C1'-O4'-C4'	-5.37	105.60	109.90
26	BB	2150	C	C5-C6-N1	5.37	123.69	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2363	G	N1-C6-O6	-5.37	116.68	119.90
26	BB	2368	C	C5'-C4'-C3'	-5.37	107.41	116.00
26	BB	2688	G	C3'-C2'-C1'	5.37	105.80	101.50
1	AA	606	G	C4'-C3'-O3'	5.37	123.74	113.00
1	AA	828	U	C5-C4-O4	5.37	129.12	125.90
2	AB	33	U	C3'-C2'-C1'	5.37	105.80	101.50
25	BA	10	G	C2-N3-C4	5.37	114.58	111.90
26	BB	128	C	N3-C4-N4	-5.37	114.24	118.00
26	BB	930	G	C1'-O4'-C4'	-5.37	105.60	109.90
26	BB	1792	G	N3-C4-N9	-5.37	122.78	126.00
26	BB	1798	U	C5'-C4'-O4'	5.37	115.54	109.10
26	BB	2398	U	C3'-C2'-C1'	-5.37	97.20	101.50
26	BB	2622	U	C1'-O4'-C4'	-5.37	105.60	109.90
1	AA	252	U	N1-C2-O2	5.37	126.56	122.80
1	AA	293	G	C2-N3-C4	5.37	114.58	111.90
1	AA	537	G	O4'-C1'-N9	5.37	112.49	108.20
1	AA	654	G	C5-C6-N1	5.37	114.19	111.50
1	AA	939	G	N3-C4-N9	-5.37	122.78	126.00
1	AA	1270	G	N1-C6-O6	-5.37	116.68	119.90
1	AA	1277	C	P-O3'-C3'	5.37	126.14	119.70
2	AB	34	C	C5'-C4'-C3'	-5.37	107.41	116.00
26	BB	464	U	C2-N1-C1'	-5.37	111.26	117.70
26	BB	668	A	C6-C5-N7	5.37	136.06	132.30
26	BB	971	G	C2-N3-C4	5.37	114.58	111.90
26	BB	2543	G	C5'-C4'-C3'	-5.37	107.41	116.00
1	AA	23	C	C6-N1-C2	-5.37	118.15	120.30
1	AA	614	C	O4'-C1'-N1	5.37	112.49	108.20
4	AD	60	A	N3-C4-C5	-5.37	123.04	126.80
26	BB	249	C	C1'-O4'-C4'	5.37	114.19	109.90
26	BB	722	A	P-O3'-C3'	5.37	126.14	119.70
26	BB	1902	C	C5-C4-N4	-5.37	116.44	120.20
1	AA	28	A	C2-N3-C4	5.37	113.28	110.60
1	AA	39	G	C5-C6-O6	5.37	131.82	128.60
1	AA	335	C	C3'-C2'-C1'	5.37	105.79	101.50
1	AA	341	C	N3-C4-C5	5.37	124.05	121.90
1	AA	509	A	C4'-C3'-C2'	-5.37	97.23	102.60
1	AA	639	G	C2-N3-C4	5.37	114.58	111.90
1	AA	983	A	C4-C5-C6	-5.37	114.32	117.00
1	AA	1421	G	C3'-C2'-C1'	-5.37	97.21	101.50
25	BA	94	A	O4'-C1'-N9	5.37	112.49	108.20
26	BB	1028	A	C4'-C3'-C2'	-5.37	97.23	102.60
26	BB	1347	A	C4'-C3'-C2'	-5.37	97.23	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1350	C	C1'-O4'-C4'	5.37	114.19	109.90
26	BB	1491	G	C6-C5-N7	5.37	133.62	130.40
26	BB	1664	A	C5'-C4'-C3'	-5.37	107.41	116.00
26	BB	1702	G	N3-C2-N2	5.37	123.66	119.90
26	BB	2683	C	N1-C2-N3	-5.37	115.44	119.20
32	BH	9	VAL	CG1-CB-CG2	-5.37	102.32	110.90
1	AA	353	A	N9-C1'-C2'	-5.36	106.10	112.00
1	AA	423	G	C5-N7-C8	-5.36	101.62	104.30
1	AA	657	U	C4'-C3'-C2'	-5.36	97.24	102.60
1	AA	671	G	C3'-C2'-C1'	5.36	105.79	101.50
1	AA	713	G	N3-C2-N2	-5.36	116.15	119.90
1	AA	935	A	C8-N9-C4	5.36	107.95	105.80
1	AA	1056	U	N3-C4-C5	-5.36	111.38	114.60
1	AA	1388	C	C5'-C4'-O4'	5.36	115.54	109.10
1	AA	1412	C	C5'-C4'-O4'	5.36	115.54	109.10
13	AM	89	ARG	NE-CZ-NH1	5.36	122.98	120.30
17	AQ	64	ARG	NH1-CZ-NH2	5.36	125.30	119.40
26	BB	367	G	C6-C5-N7	5.36	133.62	130.40
26	BB	533	G	C6-C5-N7	-5.36	127.18	130.40
26	BB	787	C	O4'-C1'-N1	5.36	112.49	108.20
26	BB	1085	A	N7-C8-N9	5.36	116.48	113.80
26	BB	1293	C	N3-C2-O2	-5.36	118.14	121.90
26	BB	1646	C	C1'-O4'-C4'	-5.36	105.61	109.90
26	BB	2480	C	N1-C2-N3	5.36	122.95	119.20
44	BT	34	GLU	OE1-CD-OE2	5.36	129.74	123.30
26	BB	217	A	C6-C5-N7	5.36	136.05	132.30
26	BB	590	A	C3'-C2'-C1'	-5.36	97.21	101.50
26	BB	1084	A	N3-C4-C5	5.36	130.55	126.80
26	BB	1563	U	N1-C2-N3	5.36	118.12	114.90
26	BB	2013	A	C5'-C4'-C3'	-5.36	107.42	116.00
26	BB	2105	U	C5-C6-N1	-5.36	120.02	122.70
26	BB	2106	U	C4-C5-C6	5.36	122.92	119.70
1	AA	54	C	C2-N3-C4	-5.36	117.22	119.90
1	AA	446	G	C6-N1-C2	-5.36	121.88	125.10
1	AA	582	C	C2'-C3'-O3'	5.36	122.28	113.70
1	AA	611	C	N3-C2-O2	-5.36	118.15	121.90
1	AA	643	C	C5'-C4'-O4'	5.36	115.53	109.10
1	AA	1290	G	C8-N9-C4	-5.36	104.26	106.40
1	AA	1375	A	C4'-C3'-C2'	-5.36	97.24	102.60
3	AC	32	U	O4'-C1'-N1	5.36	112.49	108.20
26	BB	55	G	P-O3'-C3'	5.36	126.13	119.70
26	BB	655	A	C5-C6-N6	-5.36	119.41	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	768	G	C5'-C4'-O4'	5.36	115.53	109.10
26	BB	1029	A	N7-C8-N9	-5.36	111.12	113.80
26	BB	1110	G	C5'-C4'-O4'	5.36	115.53	109.10
26	BB	1548	A	P-O5'-C5'	5.36	129.48	120.90
26	BB	2860	A	N9-C4-C5	5.36	107.94	105.80
1	AA	357	G	C5-C6-O6	-5.36	125.39	128.60
1	AA	800	G	C2-N3-C4	5.36	114.58	111.90
26	BB	130	C	N1-C2-N3	-5.36	115.45	119.20
26	BB	304	U	N1-C2-N3	5.36	118.11	114.90
26	BB	513	A	N7-C8-N9	5.36	116.48	113.80
26	BB	757	G	C5-C6-N1	5.36	114.18	111.50
26	BB	808	G	C5-C6-O6	5.36	131.82	128.60
26	BB	1845	G	C4'-C3'-C2'	-5.36	97.24	102.60
1	AA	185	U	O4'-C4'-C3'	5.36	110.39	106.10
1	AA	321	A	C3'-C2'-C1'	5.36	105.78	101.50
1	AA	565	U	N1-C2-O2	-5.36	119.05	122.80
1	AA	575	G	O4'-C1'-C2'	5.36	112.42	107.60
1	AA	692	U	C5'-C4'-O4'	5.36	115.53	109.10
1	AA	717	U	C4-C5-C6	5.36	122.91	119.70
1	AA	786	G	O5'-P-OP1	5.36	117.13	110.70
1	AA	1010	U	C6-N1-C2	-5.36	117.78	121.00
1	AA	1361	G	N3-C4-C5	-5.36	125.92	128.60
1	AA	1401	G	C1'-O4'-C4'	5.36	114.19	109.90
15	AO	75	GLU	OE1-CD-OE2	5.36	129.73	123.30
26	BB	102	U	C5'-C4'-C3'	-5.36	107.43	116.00
26	BB	218	A	P-O3'-C3'	5.36	126.13	119.70
26	BB	286	U	O4'-C1'-N1	5.36	112.48	108.20
26	BB	327	G	C8-N9-C4	-5.36	104.26	106.40
26	BB	986	C	C4-C5-C6	-5.36	114.72	117.40
26	BB	1097	U	N1-C1'-C2'	5.36	120.97	114.00
26	BB	1987	A	N1-C6-N6	5.36	121.81	118.60
26	BB	2112	G	C4-C5-N7	-5.36	108.66	110.80
26	BB	2369	A	C4-C5-N7	5.36	113.38	110.70
26	BB	2593	U	C4'-C3'-C2'	-5.36	97.24	102.60
26	BB	2689	U	C5-C4-O4	5.36	129.11	125.90
26	BB	2851	A	N7-C8-N9	5.36	116.48	113.80
26	BB	2889	C	N3-C2-O2	5.36	125.65	121.90
34	BJ	28	ASP	N-CA-CB	-5.36	100.95	110.60
1	AA	85	U	O3'-P-O5'	-5.36	93.83	104.00
1	AA	137	U	C4-C5-C6	5.36	122.91	119.70
1	AA	1522	U	C5'-C4'-O4'	5.36	115.53	109.10
25	BA	64	G	C4-C5-N7	5.36	112.94	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	245	G	C8-N9-C1'	5.36	133.96	127.00
26	BB	625	G	N9-C1'-C2'	-5.36	106.11	112.00
26	BB	931	U	C5-C6-N1	-5.36	120.02	122.70
26	BB	932	U	C6-N1-C1'	-5.36	113.70	121.20
26	BB	1809	A	O4'-C4'-C3'	5.36	110.39	106.10
26	BB	1823	G	C4-C5-C6	5.36	122.01	118.80
26	BB	1839	G	C6-N1-C2	-5.36	121.89	125.10
26	BB	2450	A	C2'-C3'-O3'	5.36	122.27	113.70
26	BB	2821	A	N3-C4-C5	-5.36	123.05	126.80
1	AA	1064	G	C5-C6-N1	-5.35	108.82	111.50
1	AA	1124	G	C4-C5-N7	-5.35	108.66	110.80
1	AA	1239	A	C6-N1-C2	5.35	121.81	118.60
26	BB	522	A	N7-C8-N9	5.35	116.48	113.80
26	BB	626	A	C6-C5-N7	-5.35	128.55	132.30
26	BB	980	A	C4'-C3'-C2'	-5.35	97.25	102.60
26	BB	1112	G	C5-N7-C8	5.35	106.98	104.30
26	BB	1214	A	C1'-O4'-C4'	5.35	114.18	109.90
26	BB	1370	C	N3-C4-N4	-5.35	114.25	118.00
26	BB	2839	G	C6-N1-C2	-5.35	121.89	125.10
1	AA	211	G	O4'-C1'-N9	5.35	112.48	108.20
1	AA	689	C	N1-C1'-C2'	-5.35	106.11	112.00
1	AA	770	C	N1-C1'-C2'	-5.35	106.11	112.00
1	AA	771	G	C6-N1-C2	-5.35	121.89	125.10
1	AA	996	A	C4-C5-N7	-5.35	108.02	110.70
1	AA	1189	U	P-O3'-C3'	5.35	126.12	119.70
1	AA	1219	A	C8-N9-C4	-5.35	103.66	105.80
2	AB	10	G	N1-C6-O6	-5.35	116.69	119.90
2	AB	42	G	O4'-C1'-N9	5.35	112.48	108.20
4	AD	41	C	P-O3'-C3'	5.35	126.12	119.70
26	BB	168	G	C3'-C2'-C1'	5.35	105.78	101.50
26	BB	176	A	N1-C2-N3	-5.35	126.62	129.30
26	BB	1070	A	N1-C6-N6	-5.35	115.39	118.60
26	BB	1527	G	P-O3'-C3'	5.35	126.12	119.70
26	BB	1972	G	C8-N9-C4	-5.35	104.26	106.40
26	BB	2405	G	C8-N9-C1'	5.35	133.96	127.00
26	BB	2469	A	P-O3'-C3'	5.35	126.12	119.70
26	BB	2788	C	N3-C2-O2	-5.35	118.15	121.90
26	BB	2871	U	C5-C4-O4	-5.35	122.69	125.90
57	B6	29	ARG	NE-CZ-NH2	5.35	122.98	120.30
1	AA	388	G	C8-N9-C4	-5.35	104.26	106.40
1	AA	636	U	C2-N3-C4	-5.35	123.79	127.00
1	AA	1530	G	N3-C4-C5	-5.35	125.92	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	957	C	O4'-C1'-N1	5.35	112.48	108.20
26	BB	1148	U	C5-C6-N1	5.35	125.38	122.70
26	BB	1485	U	N3-C2-O2	-5.35	118.45	122.20
26	BB	1713	A	O4'-C1'-N9	5.35	112.48	108.20
26	BB	2383	G	C2-N3-C4	5.35	114.58	111.90
1	AA	1	A	C3'-C2'-C1'	5.35	105.78	101.50
1	AA	152	A	C8-N9-C4	-5.35	103.66	105.80
1	AA	288	A	C4-C5-C6	-5.35	114.33	117.00
1	AA	916	U	C5-C4-O4	-5.35	122.69	125.90
4	AD	31	G	C5-C6-N1	-5.35	108.83	111.50
14	AN	1	ALA	C-N-CA	5.35	135.07	121.70
26	BB	20	C	C5'-C4'-O4'	5.35	115.52	109.10
26	BB	26	G	N1-C2-N3	5.35	127.11	123.90
26	BB	30	G	C5-C6-O6	-5.35	125.39	128.60
26	BB	88	G	C3'-C2'-C1'	-5.35	97.22	101.50
26	BB	273	G	C4-C5-N7	5.35	112.94	110.80
26	BB	728	G	N9-C4-C5	5.35	107.54	105.40
26	BB	976	G	P-O3'-C3'	5.35	126.12	119.70
26	BB	1024	G	C1'-O4'-C4'	-5.35	105.62	109.90
26	BB	1032	A	N9-C4-C5	5.35	107.94	105.80
26	BB	1275	A	C4'-C3'-C2'	-5.35	97.25	102.60
26	BB	1330	C	N1-C2-O2	5.35	122.11	118.90
26	BB	1505	A	C2-N3-C4	5.35	113.27	110.60
26	BB	1702	G	C6-C5-N7	-5.35	127.19	130.40
26	BB	1960	A	N7-C8-N9	-5.35	111.12	113.80
26	BB	2368	C	C5-C4-N4	5.35	123.94	120.20
26	BB	2670	A	C5-C6-N6	5.35	127.98	123.70
26	BB	2711	A	P-O3'-C3'	5.35	126.12	119.70
26	BB	2796	U	C6-N1-C2	-5.35	117.79	121.00
1	AA	114	U	O4'-C1'-C2'	-5.35	100.45	105.80
1	AA	155	A	N7-C8-N9	5.35	116.47	113.80
1	AA	895	G	C5-N7-C8	-5.35	101.63	104.30
1	AA	991	U	P-O3'-C3'	5.35	126.12	119.70
1	AA	1298	U	N3-C2-O2	-5.35	118.46	122.20
25	BA	27	C	C4-C5-C6	-5.35	114.73	117.40
25	BA	75	G	C2-N3-C4	5.35	114.57	111.90
26	BB	32	C	C5-C6-N1	-5.35	118.33	121.00
26	BB	252	G	N9-C1'-C2'	-5.35	106.12	112.00
26	BB	712	G	C5-C6-O6	5.35	131.81	128.60
26	BB	819	A	N7-C8-N9	-5.35	111.13	113.80
26	BB	950	G	C8-N9-C1'	5.35	133.95	127.00
26	BB	972	A	C4-C5-C6	5.35	119.67	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1292	G	C5-N7-C8	-5.35	101.63	104.30
26	BB	1315	C	C6-N1-C2	-5.35	118.16	120.30
26	BB	1623	G	N7-C8-N9	5.35	115.77	113.10
26	BB	2225	A	C1'-O4'-C4'	5.35	114.18	109.90
26	BB	2250	G	O4'-C1'-N9	5.35	112.48	108.20
26	BB	2357	G	O4'-C1'-C2'	-5.35	100.45	105.80
26	BB	2382	G	C5-N7-C8	-5.35	101.63	104.30
26	BB	2419	U	C4'-C3'-C2'	-5.35	97.25	102.60
26	BB	2486	C	N1-C1'-C2'	-5.35	106.12	112.00
26	BB	2505	G	C4'-C3'-O3'	-5.35	98.17	109.40
26	BB	2576	G	N1-C2-N3	5.35	127.11	123.90
40	BP	89	SER	CB-CA-C	5.35	120.26	110.10
47	BW	85	ARG	NE-CZ-NH1	5.35	122.97	120.30
1	AA	127	G	C6-C5-N7	5.35	133.61	130.40
1	AA	135	C	C5'-C4'-O4'	5.35	115.52	109.10
1	AA	422	C	C5-C4-N4	-5.35	116.46	120.20
1	AA	661	G	P-O3'-C3'	5.35	126.11	119.70
1	AA	676	A	C4'-C3'-C2'	-5.35	97.25	102.60
1	AA	976	G	C8-N9-C1'	5.35	133.95	127.00
1	AA	1044	A	C5'-C4'-O4'	5.35	115.52	109.10
1	AA	1316	G	C6-N1-C2	-5.35	121.89	125.10
26	BB	224	U	C1'-O4'-C4'	5.35	114.18	109.90
26	BB	1164	C	N1-C2-O2	5.35	122.11	118.90
26	BB	1172	C	C5-C4-N4	5.35	123.94	120.20
26	BB	1434	A	O4'-C1'-N9	5.35	112.48	108.20
26	BB	1471	G	O4'-C4'-C3'	5.35	110.38	106.10
1	AA	641	U	N3-C4-O4	-5.34	115.66	119.40
1	AA	1472	U	C5-C6-N1	-5.34	120.03	122.70
1	AA	1512	U	N1-C2-N3	5.34	118.11	114.90
3	AC	58	C	C5'-C4'-O4'	5.34	115.51	109.10
25	BA	57	A	C8-N9-C4	5.34	107.94	105.80
25	BA	60	C	C3'-C2'-C1'	5.34	105.78	101.50
26	BB	45	G	N1-C6-O6	-5.34	116.69	119.90
26	BB	94	A	P-O3'-C3'	5.34	126.11	119.70
26	BB	408	G	C4-C5-N7	5.34	112.94	110.80
26	BB	569	U	C5-C6-N1	-5.34	120.03	122.70
26	BB	953	G	O5'-P-OP2	-5.34	100.89	105.70
26	BB	1389	G	C6-N1-C2	-5.34	121.89	125.10
26	BB	1608	A	C4-C5-N7	5.34	113.37	110.70
26	BB	1745	A	C4-C5-N7	-5.34	108.03	110.70
26	BB	1834	U	O4'-C4'-C3'	5.34	110.38	106.10
26	BB	2488	G	O5'-P-OP2	-5.34	100.89	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2511	U	C5-C6-N1	-5.34	120.03	122.70
26	BB	2595	G	N1-C6-O6	-5.34	116.69	119.90
26	BB	2627	G	O4'-C4'-C3'	5.34	110.38	106.10
26	BB	2742	G	C6-N1-C2	-5.34	121.89	125.10
26	BB	2848	G	C4'-C3'-C2'	-5.34	97.25	102.60
35	BK	125	THR	OG1-CB-CG2	-5.34	97.71	110.00
1	AA	278	G	N1-C2-N2	-5.34	111.39	116.20
1	AA	876	C	N3-C4-N4	5.34	121.74	118.00
1	AA	958	A	N3-C4-N9	5.34	131.67	127.40
2	AB	5	G	C5-C6-O6	-5.34	125.39	128.60
26	BB	268	C	C4-C5-C6	5.34	120.07	117.40
26	BB	946	C	O4'-C1'-C2'	-5.34	100.46	105.80
26	BB	1942	C	C5'-C4'-C3'	-5.34	107.45	116.00
26	BB	2195	U	N1-C2-O2	5.34	126.54	122.80
1	AA	76	G	N7-C8-N9	5.34	115.77	113.10
1	AA	231	U	C5'-C4'-O4'	5.34	115.51	109.10
1	AA	413	G	C5'-C4'-O4'	-5.34	102.69	109.10
1	AA	941	G	C6-C5-N7	5.34	133.60	130.40
1	AA	1211	U	C5-C4-O4	-5.34	122.69	125.90
3	AC	30	U	C6-N1-C1'	5.34	128.68	121.20
4	AD	6	G	C8-N9-C4	-5.34	104.26	106.40
9	AI	108	GLU	OE1-CD-OE2	5.34	129.71	123.30
26	BB	165	A	C4-C5-C6	-5.34	114.33	117.00
26	BB	667	U	C5-C4-O4	5.34	129.10	125.90
26	BB	689	A	C5-N7-C8	-5.34	101.23	103.90
26	BB	1100	C	C4'-C3'-C2'	-5.34	97.26	102.60
26	BB	1137	G	N1-C6-O6	5.34	123.11	119.90
26	BB	1270	C	N3-C2-O2	-5.34	118.16	121.90
26	BB	1298	C	N3-C4-C5	-5.34	119.76	121.90
26	BB	1421	G	C2'-C3'-O3'	5.34	122.25	113.70
26	BB	2026	U	N3-C2-O2	-5.34	118.46	122.20
26	BB	2236	U	C2-N3-C4	-5.34	123.80	127.00
26	BB	2489	U	C5'-C4'-C3'	-5.34	107.45	116.00
26	BB	2660	A	C4-C5-N7	-5.34	108.03	110.70
26	BB	2775	G	O4'-C4'-C3'	5.34	110.37	106.10
39	BO	79	ALA	CB-CA-C	5.34	118.11	110.10
1	AA	276	G	N1-C2-N3	-5.34	120.70	123.90
1	AA	595	A	O4'-C4'-C3'	5.34	110.37	106.10
1	AA	1248	A	N3-C4-N9	-5.34	123.13	127.40
2	AB	15	A	N1-C2-N3	5.34	131.97	129.30
6	AF	26	LYS	CA-CB-CG	5.34	125.15	113.40
26	BB	345	A	C8-N9-C4	-5.34	103.66	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	366	C	N1-C2-O2	5.34	122.10	118.90
26	BB	488	G	N9-C4-C5	5.34	107.54	105.40
26	BB	1233	C	C5-C4-N4	5.34	123.94	120.20
26	BB	1498	C	C5'-C4'-C3'	-5.34	107.46	116.00
26	BB	1538	G	C6-C5-N7	-5.34	127.20	130.40
26	BB	2386	A	O4'-C1'-C2'	-5.34	100.46	105.80
26	BB	2736	A	N9-C4-C5	-5.34	103.66	105.80
26	BB	2848	G	O4'-C1'-N9	5.34	112.47	108.20
26	BB	2892	G	C5'-C4'-O4'	5.34	115.51	109.10
32	BH	150	TYR	CD1-CG-CD2	5.34	123.77	117.90
1	AA	346	G	N1-C2-N3	5.34	127.10	123.90
1	AA	1179	A	C4-C5-N7	-5.34	108.03	110.70
1	AA	1284	C	C5'-C4'-C3'	-5.34	107.46	116.00
26	BB	503	A	C1'-O4'-C4'	-5.34	105.63	109.90
26	BB	1090	A	P-O3'-C3'	5.34	126.11	119.70
26	BB	1177	G	C2-N3-C4	5.34	114.57	111.90
26	BB	1497	U	C3'-C2'-C1'	-5.34	97.23	101.50
26	BB	2271	G	N3-C4-C5	-5.34	125.93	128.60
1	AA	71	A	O4'-C1'-N9	5.34	112.47	108.20
1	AA	125	U	P-O5'-C5'	5.34	129.44	120.90
1	AA	160	A	N1-C6-N6	-5.34	115.40	118.60
1	AA	350	G	C5-C6-O6	-5.34	125.40	128.60
1	AA	683	G	C6-C5-N7	-5.34	127.20	130.40
1	AA	828	U	C5-C6-N1	-5.34	120.03	122.70
1	AA	999	C	N1-C1'-C2'	-5.34	106.13	112.00
13	AM	68	ARG	NE-CZ-NH1	5.34	122.97	120.30
26	BB	19	A	C8-N9-C4	-5.34	103.67	105.80
26	BB	136	G	C5-C6-N1	5.34	114.17	111.50
26	BB	357	C	N3-C4-C5	5.34	124.03	121.90
26	BB	866	A	O4'-C1'-N9	5.34	112.47	108.20
26	BB	1404	C	C4'-C3'-C2'	-5.34	97.26	102.60
26	BB	1511	G	C6-C5-N7	5.34	133.60	130.40
26	BB	1514	G	N7-C8-N9	5.34	115.77	113.10
26	BB	1540	G	N9-C1'-C2'	-5.34	106.13	112.00
26	BB	1688	U	C2-N3-C4	-5.34	123.80	127.00
26	BB	2024	G	O3'-P-O5'	5.34	114.14	104.00
26	BB	2077	A	N1-C6-N6	-5.34	115.40	118.60
26	BB	2211	A	C5'-C4'-C3'	-5.34	107.46	116.00
26	BB	2395	C	C6-N1-C2	-5.34	118.17	120.30
26	BB	2416	C	C2-N1-C1'	5.34	124.67	118.80
26	BB	2718	G	N1-C6-O6	5.34	123.10	119.90
26	BB	2729	G	C3'-C2'-C1'	5.34	105.77	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	BD	237	ARG	NE-CZ-NH1	-5.34	117.63	120.30
29	BE	189	VAL	CA-CB-CG1	5.34	118.91	110.90
1	AA	9	G	C5-C6-N1	5.33	114.17	111.50
1	AA	146	G	C1'-O4'-C4'	5.33	114.17	109.90
1	AA	900	A	C4-C5-C6	-5.33	114.33	117.00
1	AA	970	C	C4'-C3'-C2'	-5.33	97.27	102.60
2	AB	23	A	C4'-C3'-C2'	-5.33	97.27	102.60
26	BB	885	C	N3-C4-C5	-5.33	119.77	121.90
26	BB	1307	A	P-O3'-C3'	5.33	126.10	119.70
26	BB	2500	U	C3'-C2'-C1'	5.33	105.77	101.50
26	BB	2834	G	C4-C5-N7	-5.33	108.67	110.80
1	AA	190	A	N9-C4-C5	5.33	107.93	105.80
1	AA	236	A	C8-N9-C4	-5.33	103.67	105.80
1	AA	242	G	N3-C2-N2	-5.33	116.17	119.90
1	AA	815	A	P-O3'-C3'	5.33	126.10	119.70
1	AA	1436	U	C6-N1-C2	-5.33	117.80	121.00
1	AA	1540	U	O4'-C1'-N1	5.33	112.47	108.20
25	BA	77	U	C5-C4-O4	-5.33	122.70	125.90
26	BB	95	A	C5'-C4'-C3'	-5.33	107.47	116.00
26	BB	259	G	C4-N9-C1'	-5.33	119.57	126.50
26	BB	1640	A	N3-C4-C5	-5.33	123.07	126.80
26	BB	1801	A	C5-C6-N1	5.33	120.37	117.70
26	BB	1876	A	N9-C4-C5	5.33	107.93	105.80
26	BB	2248	C	C2-N1-C1'	-5.33	112.93	118.80
26	BB	2280	G	C1'-O4'-C4'	-5.33	105.63	109.90
26	BB	2660	A	C8-N9-C4	-5.33	103.67	105.80
26	BB	2795	C	N3-C4-N4	5.33	121.73	118.00
31	BG	12	VAL	CA-CB-CG2	-5.33	102.90	110.90
37	BM	48	PRO	N-CD-CG	5.33	111.20	103.20
1	AA	408	A	C5-C6-N1	5.33	120.37	117.70
1	AA	567	G	C6-C5-N7	-5.33	127.20	130.40
1	AA	778	G	N7-C8-N9	5.33	115.77	113.10
1	AA	869	G	N3-C2-N2	5.33	123.63	119.90
1	AA	1105	A	C8-N9-C4	-5.33	103.67	105.80
1	AA	1111	A	C6-N1-C2	-5.33	115.40	118.60
1	AA	1319	A	C4'-C3'-C2'	-5.33	97.27	102.60
2	AB	57	G	C5-C6-N1	5.33	114.17	111.50
10	AJ	162	SER	N-CA-CB	-5.33	102.50	110.50
26	BB	435	C	O4'-C1'-N1	5.33	112.47	108.20
26	BB	695	G	C4-C5-N7	-5.33	108.67	110.80
26	BB	720	U	P-O3'-C3'	5.33	126.10	119.70
26	BB	991	C	C6-N1-C2	5.33	122.43	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	998	C	C5'-C4'-O4'	5.33	115.50	109.10
26	BB	1005	C	O3'-P-O5'	-5.33	93.87	104.00
26	BB	1031	G	P-O3'-C3'	5.33	126.10	119.70
26	BB	1833	C	C1'-O4'-C4'	-5.33	105.64	109.90
26	BB	1889	A	C6-C5-N7	5.33	136.03	132.30
26	BB	1945	G	O4'-C4'-C3'	5.33	110.36	106.10
26	BB	2238	G	N9-C1'-C2'	5.33	120.93	114.00
26	BB	2603	G	C2-N3-C4	5.33	114.56	111.90
39	BO	114	ARG	NH1-CZ-NH2	-5.33	113.53	119.40
1	AA	134	G	N9-C4-C5	-5.33	103.27	105.40
1	AA	397	A	C1'-O4'-C4'	-5.33	105.64	109.90
1	AA	1164	G	C8-N9-C1'	5.33	133.93	127.00
1	AA	1193	G	N3-C4-C5	-5.33	125.94	128.60
4	AD	30	G	C6-N1-C2	-5.33	121.90	125.10
9	AI	101	PRO	C-N-CA	5.33	135.03	121.70
25	BA	52	A	N9-C4-C5	5.33	107.93	105.80
26	BB	269	C	N1-C2-N3	5.33	122.93	119.20
26	BB	338	G	O4'-C1'-C2'	5.33	112.40	107.60
26	BB	777	G	N3-C4-N9	5.33	129.20	126.00
26	BB	1027	A	N1-C2-N3	5.33	131.97	129.30
26	BB	1038	G	P-O3'-C3'	5.33	126.10	119.70
26	BB	1281	G	C5-N7-C8	-5.33	101.64	104.30
26	BB	1573	G	C6-N1-C2	-5.33	121.90	125.10
26	BB	2303	G	N7-C8-N9	5.33	115.77	113.10
31	BG	149	ARG	NH1-CZ-NH2	5.33	125.26	119.40
1	AA	11	G	C6-C5-N7	-5.33	127.20	130.40
1	AA	387	U	N1-C2-O2	5.33	126.53	122.80
1	AA	470	C	N1-C1'-C2'	-5.33	106.14	112.00
1	AA	862	C	N3-C4-C5	5.33	124.03	121.90
1	AA	1063	C	C4'-C3'-C2'	-5.33	97.27	102.60
1	AA	1180	A	C5-C6-N6	-5.33	119.44	123.70
1	AA	1359	C	C6-N1-C2	-5.33	118.17	120.30
1	AA	1479	C	N1-C1'-C2'	-5.33	106.14	112.00
26	BB	36	G	O4'-C4'-C3'	-5.33	98.67	104.00
26	BB	716	A	C6-C5-N7	-5.33	128.57	132.30
26	BB	742	A	N1-C6-N6	5.33	121.80	118.60
26	BB	1108	U	N1-C2-N3	5.33	118.10	114.90
26	BB	1775	U	O5'-C5'-C4'	5.33	121.82	111.70
26	BB	2260	C	C4'-C3'-C2'	-5.33	97.27	102.60
26	BB	2377	A	C4'-C3'-C2'	-5.33	97.27	102.60
26	BB	2706	A	N3-C4-N9	5.33	131.66	127.40
1	AA	680	C	O4'-C1'-N1	5.33	112.46	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	984	C	C5'-C4'-C3'	5.33	124.52	116.00
2	AB	61	C	C4-C5-C6	-5.33	114.74	117.40
3	AC	23	C	O4'-C1'-N1	5.33	112.46	108.20
26	BB	565	C	C2-N3-C4	5.33	122.56	119.90
26	BB	1941	C	C4'-C3'-C2'	5.33	107.93	102.60
26	BB	2754	U	N1-C2-N3	5.33	118.10	114.90
1	AA	198	G	N9-C4-C5	-5.33	103.27	105.40
1	AA	295	C	C4'-C3'-O3'	5.33	123.65	113.00
1	AA	319	G	N1-C2-N2	5.33	120.99	116.20
1	AA	981	U	C2-N1-C1'	-5.33	111.31	117.70
1	AA	1289	A	C1'-O4'-C4'	5.33	114.16	109.90
26	BB	561	G	C4'-C3'-O3'	5.33	123.65	113.00
26	BB	863	A	C1'-O4'-C4'	5.33	114.16	109.90
26	BB	1014	A	C4-C5-N7	-5.33	108.04	110.70
26	BB	1115	G	C5'-C4'-O4'	5.33	115.49	109.10
26	BB	1156	A	C6-N1-C2	5.33	121.80	118.60
26	BB	2420	C	C5-C6-N1	-5.33	118.34	121.00
26	BB	2446	G	N3-C2-N2	-5.33	116.17	119.90
26	BB	2606	C	P-O3'-C3'	5.33	126.09	119.70
45	BU	45	VAL	CG1-CB-CG2	5.33	119.42	110.90
1	AA	76	G	C5-C6-O6	-5.32	125.41	128.60
1	AA	372	C	C1'-O4'-C4'	-5.32	105.64	109.90
1	AA	505	G	O4'-C4'-C3'	5.32	110.36	106.10
1	AA	1012	A	C1'-O4'-C4'	5.32	114.16	109.90
1	AA	1213	A	N7-C8-N9	5.32	116.46	113.80
1	AA	1283	U	O4'-C4'-C3'	5.32	110.36	106.10
1	AA	1456	A	C5'-C4'-C3'	5.32	124.52	116.00
17	AQ	1	ALA	C-N-CA	5.32	135.01	121.70
25	BA	70	C	O4'-C1'-N1	5.32	112.46	108.20
26	BB	721	A	C5-C6-N6	5.32	127.96	123.70
26	BB	1073	A	O4'-C4'-C3'	5.32	110.36	106.10
26	BB	1304	A	C5-C6-N1	5.32	120.36	117.70
26	BB	1519	G	C8-N9-C1'	5.32	133.92	127.00
26	BB	1914	C	C3'-C2'-C1'	-5.32	97.24	101.50
26	BB	2743	U	C6-N1-C2	-5.32	117.81	121.00
30	BF	9	GLN	CB-CA-C	5.32	121.05	110.40
36	BL	37	ARG	NE-CZ-NH2	5.32	122.96	120.30
1	AA	61	G	N1-C2-N3	5.32	127.09	123.90
1	AA	664	G	C6-N1-C2	-5.32	121.91	125.10
1	AA	1309	G	C8-N9-C4	-5.32	104.27	106.40
7	AG	75	TYR	CG-CD1-CE1	-5.32	117.04	121.30
25	BA	12	C	C5'-C4'-O4'	5.32	115.49	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1591	A	C5'-C4'-O4'	5.32	115.49	109.10
26	BB	1668	A	N1-C2-N3	-5.32	126.64	129.30
26	BB	2134	A	N1-C6-N6	-5.32	115.41	118.60
26	BB	2231	U	N1-C2-N3	5.32	118.09	114.90
35	BK	137	LEU	CB-CG-CD2	5.32	120.05	111.00
1	AA	39	G	C6-C5-N7	-5.32	127.21	130.40
1	AA	192	A	O3'-P-O5'	-5.32	93.89	104.00
1	AA	364	A	O5'-C5'-C4'	-5.32	101.59	111.70
1	AA	779	C	P-O3'-C3'	5.32	126.08	119.70
1	AA	923	A	N3-C4-C5	-5.32	123.08	126.80
1	AA	955	U	C4-C5-C6	5.32	122.89	119.70
1	AA	1351	U	C6-N1-C2	-5.32	117.81	121.00
2	AB	76	A	C6-C5-N7	5.32	136.02	132.30
4	AD	43	G	O4'-C1'-N9	5.32	112.46	108.20
4	AD	64	G	C5-C6-O6	5.32	131.79	128.60
4	AD	70	C	C5-C4-N4	-5.32	116.48	120.20
26	BB	79	C	C5-C6-N1	5.32	123.66	121.00
26	BB	243	U	C2-N3-C4	-5.32	123.81	127.00
26	BB	652	U	C2-N3-C4	-5.32	123.81	127.00
26	BB	1178	C	C5-C6-N1	5.32	123.66	121.00
26	BB	1365	A	N1-C6-N6	5.32	121.79	118.60
26	BB	1586	A	N9-C1'-C2'	-5.32	106.15	112.00
26	BB	1636	U	C2-N3-C4	-5.32	123.81	127.00
26	BB	2408	U	N1-C1'-C2'	-5.32	106.15	112.00
26	BB	2466	C	C4-C5-C6	-5.32	114.74	117.40
1	AA	415	A	C4-C5-N7	5.32	113.36	110.70
1	AA	694	A	P-O3'-C3'	5.32	126.08	119.70
3	AC	15	G	C2-N3-C4	-5.32	109.24	111.90
26	BB	495	G	N9-C4-C5	5.32	107.53	105.40
26	BB	674	G	C4-C5-C6	5.32	121.99	118.80
26	BB	941	A	C2-N3-C4	5.32	113.26	110.60
26	BB	1158	C	C2-N1-C1'	5.32	124.65	118.80
26	BB	1268	A	N9-C1'-C2'	-5.32	106.15	112.00
26	BB	1377	G	C8-N9-C4	-5.32	104.27	106.40
26	BB	2336	A	N1-C6-N6	5.32	121.79	118.60
1	AA	236	A	C5'-C4'-O4'	5.32	115.48	109.10
1	AA	285	C	O5'-C5'-C4'	5.32	121.80	111.70
1	AA	929	G	N1-C6-O6	-5.32	116.71	119.90
1	AA	958	A	N1-C2-N3	-5.32	126.64	129.30
1	AA	1045	C	N3-C4-N4	5.32	121.72	118.00
2	AB	40	C	N1-C1'-C2'	-5.32	106.15	112.00
4	AD	76	C	P-O3'-C3'	5.32	126.08	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AN	52	ARG	NE-CZ-NH2	-5.32	117.64	120.30
26	BB	212	G	C8-N9-C1'	5.32	133.91	127.00
26	BB	781	A	N1-C2-N3	-5.32	126.64	129.30
26	BB	1416	G	C8-N9-C4	-5.32	104.27	106.40
26	BB	1543	G	C4-C5-N7	-5.32	108.67	110.80
26	BB	1586	A	C4-C5-C6	-5.32	114.34	117.00
26	BB	2269	G	N1-C6-O6	5.32	123.09	119.90
26	BB	2288	A	C5'-C4'-O4'	-5.32	102.72	109.10
26	BB	2424	C	O4'-C1'-N1	5.32	112.45	108.20
30	BF	141	MET	CA-CB-CG	-5.32	104.26	113.30
45	BU	107	VAL	CA-CB-CG2	-5.32	102.92	110.90
57	B6	57	VAL	CA-CB-CG1	5.32	118.88	110.90
1	AA	148	G	C5'-C4'-C3'	-5.32	107.49	116.00
1	AA	193	C	C5'-C4'-O4'	5.32	115.48	109.10
1	AA	831	A	C5-C6-N1	5.32	120.36	117.70
1	AA	933	G	C5'-C4'-C3'	-5.32	107.49	116.00
1	AA	1387	G	C4-C5-N7	-5.32	108.67	110.80
2	AB	31	U	C5-C4-O4	-5.32	122.71	125.90
18	AR	11	VAL	CG1-CB-CG2	-5.32	102.40	110.90
25	BA	113	C	N1-C2-N3	-5.32	115.48	119.20
25	BA	113	C	N3-C4-N4	5.32	121.72	118.00
26	BB	425	G	N3-C2-N2	-5.32	116.18	119.90
26	BB	811	U	C5'-C4'-C3'	-5.32	107.50	116.00
26	BB	1226	A	C5-C6-N6	-5.32	119.45	123.70
26	BB	1683	U	N3-C2-O2	-5.32	118.48	122.20
26	BB	2757	A	C8-N9-C4	5.32	107.93	105.80
1	AA	1500	A	C5-C6-N1	5.31	120.36	117.70
6	AF	74	ILE	O-C-N	5.31	131.20	122.70
26	BB	580	U	C5'-C4'-O4'	5.31	115.48	109.10
26	BB	1183	U	N1-C2-O2	5.31	126.52	122.80
26	BB	1340	U	C5-C4-O4	-5.31	122.71	125.90
26	BB	1566	A	O4'-C4'-C3'	5.31	110.35	106.10
26	BB	2427	C	C4-C5-C6	5.31	120.06	117.40
52	B1	58	GLU	OE1-CD-OE2	5.31	129.68	123.30
1	AA	578	C	N3-C4-N4	5.31	121.72	118.00
1	AA	863	U	N3-C2-O2	-5.31	118.48	122.20
1	AA	1113	C	P-O3'-C3'	5.31	126.07	119.70
1	AA	1144	G	N3-C4-C5	-5.31	125.94	128.60
26	BB	205	G	C6-C5-N7	-5.31	127.21	130.40
26	BB	244	A	C5-C6-N1	5.31	120.36	117.70
26	BB	412	A	N9-C1'-C2'	-5.31	106.16	112.00
26	BB	435	C	N3-C2-O2	-5.31	118.18	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1561	C	C1'-O4'-C4'	-5.31	105.65	109.90
26	BB	1972	G	N9-C1'-C2'	-5.31	106.16	112.00
26	BB	2134	A	N9-C4-C5	-5.31	103.67	105.80
26	BB	2194	U	C5'-C4'-O4'	5.31	115.48	109.10
26	BB	2439	A	P-O3'-C3'	5.31	126.08	119.70
26	BB	2648	G	C6-N1-C2	-5.31	121.91	125.10
1	AA	482	A	C4-C5-C6	-5.31	114.34	117.00
17	AQ	39	ASP	CB-CG-OD2	5.31	123.08	118.30
26	BB	426	C	N3-C4-C5	-5.31	119.78	121.90
26	BB	535	G	N7-C8-N9	5.31	115.76	113.10
26	BB	728	G	C1'-O4'-C4'	-5.31	105.65	109.90
26	BB	752	A	O4'-C1'-N9	5.31	112.45	108.20
26	BB	2398	U	N3-C4-O4	5.31	123.12	119.40
26	BB	2533	U	P-O3'-C3'	5.31	126.07	119.70
39	BO	110	GLU	CA-CB-CG	5.31	125.08	113.40
43	BS	90	ASP	CB-CG-OD1	-5.31	113.52	118.30
1	AA	32	A	C8-N9-C4	5.31	107.92	105.80
1	AA	108	G	C5-N7-C8	5.31	106.95	104.30
1	AA	346	G	C4-C5-C6	5.31	121.98	118.80
1	AA	425	G	C5'-C4'-O4'	5.31	115.47	109.10
26	BB	187	G	N1-C2-N3	5.31	127.09	123.90
26	BB	358	U	O4'-C4'-C3'	5.31	110.35	106.10
26	BB	441	U	P-O3'-C3'	5.31	126.07	119.70
26	BB	595	C	N1-C2-O2	5.31	122.09	118.90
26	BB	645	C	C5'-C4'-O4'	5.31	115.47	109.10
26	BB	800	A	C2-N3-C4	-5.31	107.94	110.60
26	BB	948	C	C4'-C3'-C2'	-5.31	97.29	102.60
26	BB	1491	G	C1'-O4'-C4'	5.31	114.15	109.90
26	BB	1514	G	C8-N9-C4	-5.31	104.28	106.40
26	BB	1516	G	C8-N9-C4	-5.31	104.28	106.40
26	BB	1753	G	N3-C4-C5	-5.31	125.94	128.60
26	BB	1796	U	C5'-C4'-O4'	5.31	115.47	109.10
26	BB	1955	U	P-O3'-C3'	5.31	126.07	119.70
26	BB	2037	A	C3'-C2'-C1'	-5.31	97.25	101.50
26	BB	2231	U	C1'-O4'-C4'	-5.31	105.65	109.90
26	BB	2234	G	C6-C5-N7	-5.31	127.21	130.40
26	BB	2477	U	C5-C6-N1	5.31	125.36	122.70
42	BR	41	ALA	N-CA-CB	-5.31	102.67	110.10
1	AA	21	G	C5'-C4'-O4'	5.31	115.47	109.10
1	AA	42	G	C5'-C4'-O4'	5.31	115.47	109.10
1	AA	374	A	C8-N9-C4	-5.31	103.68	105.80
1	AA	746	A	C2-N3-C4	5.31	113.25	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	800	G	C4'-C3'-C2'	-5.31	97.29	102.60
1	AA	1062	U	C3'-C2'-C1'	5.31	105.75	101.50
1	AA	1161	C	C3'-C2'-C1'	5.31	105.75	101.50
1	AA	1330	U	N3-C4-C5	-5.31	111.42	114.60
1	AA	1403	C	N3-C4-C5	-5.31	119.78	121.90
1	AA	1496	C	N3-C2-O2	-5.31	118.18	121.90
3	AC	52	U	N3-C4-C5	-5.31	111.42	114.60
19	AS	51	ARG	NE-CZ-NH1	5.31	122.95	120.30
25	BA	111	U	N1-C2-O2	-5.31	119.08	122.80
26	BB	200	U	C5-C4-O4	5.31	129.08	125.90
26	BB	770	G	C5'-C4'-O4'	5.31	115.47	109.10
26	BB	1069	A	C4-C5-C6	-5.31	114.35	117.00
26	BB	1179	G	P-O3'-C3'	5.31	126.07	119.70
26	BB	1401	G	O4'-C1'-N9	-5.31	103.95	108.20
26	BB	1688	U	C3'-C2'-C1'	-5.31	97.25	101.50
26	BB	2693	G	C5'-C4'-O4'	5.31	115.47	109.10
26	BB	2828	G	C3'-C2'-C1'	-5.31	97.25	101.50
1	AA	247	G	N3-C4-C5	-5.31	125.95	128.60
26	BB	1582	C	C4-C5-C6	-5.31	114.75	117.40
26	BB	1889	A	C1'-O4'-C4'	-5.31	105.66	109.90
26	BB	2019	A	C5-C6-N1	5.31	120.35	117.70
26	BB	2026	U	N1-C1'-C2'	-5.31	106.16	112.00
26	BB	2266	A	N9-C1'-C2'	5.31	120.90	114.00
26	BB	2562	U	C5'-C4'-O4'	5.31	115.47	109.10
1	AA	61	G	N1-C2-N2	-5.30	111.43	116.20
1	AA	65	A	N1-C6-N6	5.30	121.78	118.60
1	AA	142	G	C4'-C3'-C2'	-5.30	97.30	102.60
1	AA	143	A	C1'-O4'-C4'	-5.30	105.66	109.90
1	AA	297	G	C4-N9-C1'	-5.30	119.61	126.50
1	AA	566	G	C5-N7-C8	-5.30	101.65	104.30
1	AA	1202	U	C4'-C3'-C2'	-5.30	97.30	102.60
1	AA	1301	U	C2-N3-C4	-5.30	123.82	127.00
10	AJ	3	ARG	NH1-CZ-NH2	-5.30	113.56	119.40
25	BA	11	C	N1-C2-N3	-5.30	115.49	119.20
25	BA	92	C	N3-C2-O2	-5.30	118.19	121.90
25	BA	101	A	C5-N7-C8	-5.30	101.25	103.90
26	BB	379	G	C6-C5-N7	-5.30	127.22	130.40
26	BB	1061	U	P-O3'-C3'	5.30	126.06	119.70
26	BB	1098	A	C6-N1-C2	5.30	121.78	118.60
26	BB	1360	G	O4'-C1'-N9	5.30	112.44	108.20
26	BB	1374	G	C5-N7-C8	5.30	106.95	104.30
26	BB	1582	C	C5'-C4'-O4'	5.30	115.47	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1878	G	N1-C6-O6	5.30	123.08	119.90
26	BB	2042	A	N9-C4-C5	-5.30	103.68	105.80
26	BB	2584	U	P-O3'-C3'	5.30	126.06	119.70
26	BB	2770	G	N3-C2-N2	5.30	123.61	119.90
26	BB	2821	A	C4'-C3'-C2'	-5.30	97.30	102.60
32	BH	163	TYR	CB-CG-CD1	5.30	124.18	121.00
37	BM	80	ASP	CB-CG-OD1	-5.30	113.53	118.30
2	AB	9	A	C4'-C3'-O3'	5.30	123.61	113.00
3	AC	56	G	O4'-C1'-N9	5.30	112.44	108.20
26	BB	253	C	C4'-C3'-C2'	-5.30	97.30	102.60
26	BB	1680	U	N1-C2-N3	5.30	118.08	114.90
26	BB	1856	U	C4'-C3'-C2'	-5.30	97.30	102.60
26	BB	1991	U	O4'-C1'-N1	5.30	112.44	108.20
26	BB	2642	G	C2-N3-C4	5.30	114.55	111.90
26	BB	2653	U	C4'-C3'-C2'	-5.30	97.30	102.60
26	BB	2891	U	C2-N3-C4	-5.30	123.82	127.00
1	AA	93	U	C5-C6-N1	-5.30	120.05	122.70
1	AA	176	C	C5'-C4'-O4'	5.30	115.46	109.10
1	AA	436	C	O4'-C1'-N1	5.30	112.44	108.20
1	AA	1086	U	C5-C4-O4	-5.30	122.72	125.90
1	AA	1198	G	C4'-C3'-C2'	-5.30	97.30	102.60
1	AA	1403	C	N3-C4-N4	5.30	121.71	118.00
4	AD	41	C	N3-C2-O2	5.30	125.61	121.90
25	BA	1	U	N3-C4-C5	-5.30	111.42	114.60
25	BA	98	G	C5-C6-N1	-5.30	108.85	111.50
26	BB	5	A	C5'-C4'-O4'	5.30	115.46	109.10
26	BB	424	G	N3-C4-C5	-5.30	125.95	128.60
26	BB	735	A	C6-C5-N7	-5.30	128.59	132.30
26	BB	1074	G	C5'-C4'-O4'	5.30	115.46	109.10
26	BB	1084	A	C5-C6-N1	5.30	120.35	117.70
26	BB	1985	C	C6-N1-C2	-5.30	118.18	120.30
26	BB	2122	U	N3-C4-O4	-5.30	115.69	119.40
26	BB	2549	G	N3-C4-C5	-5.30	125.95	128.60
26	BB	2592	G	N3-C4-C5	-5.30	125.95	128.60
26	BB	2823	A	O4'-C1'-C2'	5.30	112.37	107.60
26	BB	2843	G	N9-C1'-C2'	-5.30	106.17	112.00
1	AA	391	G	C2-N3-C4	5.30	114.55	111.90
1	AA	660	C	OP1-P-O3'	5.30	116.86	105.20
1	AA	1062	U	P-O3'-C3'	5.30	126.06	119.70
1	AA	1294	G	C8-N9-C1'	5.30	133.89	127.00
1	AA	1297	G	O4'-C1'-N9	5.30	112.44	108.20
1	AA	1333	A	N9-C4-C5	5.30	107.92	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	44	G	N3-C4-N9	-5.30	122.82	126.00
25	BA	115	A	C2-N3-C4	-5.30	107.95	110.60
26	BB	503	A	N7-C8-N9	-5.30	111.15	113.80
26	BB	701	G	P-O3'-C3'	5.30	126.06	119.70
26	BB	1070	A	C5-C6-N1	5.30	120.35	117.70
26	BB	1884	G	C4-C5-N7	-5.30	108.68	110.80
26	BB	2505	G	C2-N3-C4	5.30	114.55	111.90
26	BB	2505	G	N3-C4-C5	-5.30	125.95	128.60
26	BB	2877	G	N1-C6-O6	5.30	123.08	119.90
1	AA	1100	C	N3-C2-O2	-5.30	118.19	121.90
1	AA	1169	A	N9-C4-C5	5.30	107.92	105.80
26	BB	583	G	C4-C5-N7	-5.30	108.68	110.80
26	BB	869	G	C4-C5-C6	5.30	121.98	118.80
26	BB	1525	A	N9-C4-C5	5.30	107.92	105.80
26	BB	1862	G	C6-N1-C2	-5.30	121.92	125.10
1	AA	393	A	C1'-O4'-C4'	5.30	114.14	109.90
1	AA	793	U	C2-N3-C4	-5.30	123.82	127.00
1	AA	815	A	O4'-C4'-C3'	5.30	110.34	106.10
1	AA	1507	A	C5'-C4'-C3'	-5.30	107.53	116.00
5	AE	107	ARG	NE-CZ-NH1	-5.30	117.65	120.30
22	AV	77	ARG	CD-NE-CZ	5.30	131.01	123.60
26	BB	24	G	C4-C5-C6	-5.30	115.62	118.80
26	BB	60	G	O4'-C1'-C2'	5.30	112.37	107.60
26	BB	288	U	C5-C4-O4	5.30	129.08	125.90
26	BB	624	C	C2-N3-C4	5.30	122.55	119.90
26	BB	1007	C	N1-C1'-C2'	-5.30	106.17	112.00
26	BB	1220	G	C2-N3-C4	-5.30	109.25	111.90
26	BB	1305	C	C5-C6-N1	5.30	123.65	121.00
26	BB	1408	G	N7-C8-N9	5.30	115.75	113.10
26	BB	2077	A	C4'-C3'-C2'	-5.30	97.30	102.60
26	BB	2225	A	C5'-C4'-O4'	5.30	115.46	109.10
57	B6	7	ARG	NE-CZ-NH1	5.30	122.95	120.30
1	AA	308	C	P-O3'-C3'	5.29	126.05	119.70
1	AA	759	A	N3-C4-N9	5.29	131.64	127.40
1	AA	873	A	O4'-C4'-C3'	5.29	110.34	106.10
3	AC	48	C	O4'-C1'-N1	5.29	112.44	108.20
4	AD	37	U	N3-C4-C5	-5.29	111.42	114.60
26	BB	470	A	C6-N1-C2	-5.29	115.42	118.60
26	BB	1101	U	N1-C2-N3	5.29	118.08	114.90
26	BB	1676	A	C8-N9-C4	-5.29	103.68	105.80
26	BB	2847	U	N1-C2-O2	-5.29	119.09	122.80
1	AA	339	C	C5'-C4'-O4'	5.29	115.45	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	549	C	N3-C4-C5	5.29	124.02	121.90
1	AA	1150	A	C2-N3-C4	5.29	113.25	110.60
1	AA	1428	A	C5-N7-C8	-5.29	101.25	103.90
1	AA	1460	C	C4-C5-C6	-5.29	114.75	117.40
25	BA	37	C	C1'-O4'-C4'	5.29	114.14	109.90
26	BB	355	U	N1-C2-N3	5.29	118.08	114.90
26	BB	372	G	C4-C5-C6	-5.29	115.62	118.80
26	BB	701	G	N1-C2-N2	5.29	120.96	116.20
26	BB	730	A	N9-C4-C5	5.29	107.92	105.80
26	BB	906	U	C5'-C4'-C3'	-5.29	107.53	116.00
26	BB	977	G	N3-C4-N9	5.29	129.18	126.00
26	BB	1464	G	C3'-C2'-C1'	-5.29	97.27	101.50
26	BB	1540	G	C1'-O4'-C4'	5.29	114.13	109.90
26	BB	1604	C	O4'-C1'-C2'	-5.29	100.51	105.80
26	BB	1649	G	C5-N7-C8	-5.29	101.65	104.30
26	BB	1967	C	C5-C4-N4	5.29	123.91	120.20
26	BB	2092	U	N3-C4-O4	-5.29	115.69	119.40
26	BB	2116	G	O4'-C1'-N9	5.29	112.44	108.20
26	BB	2253	G	N9-C1'-C2'	-5.29	106.18	112.00
26	BB	2281	A	N9-C1'-C2'	-5.29	106.18	112.00
26	BB	2538	C	N3-C4-C5	-5.29	119.78	121.90
1	AA	190	A	C2-N3-C4	-5.29	107.95	110.60
1	AA	320	A	N7-C8-N9	5.29	116.45	113.80
1	AA	408	A	C4-C5-N7	5.29	113.35	110.70
1	AA	792	A	C5-C6-N1	-5.29	115.05	117.70
1	AA	1295	U	C4-C5-C6	5.29	122.88	119.70
1	AA	1496	C	O4'-C4'-C3'	-5.29	98.71	104.00
3	AC	52	U	C2-N1-C1'	5.29	124.05	117.70
26	BB	307	G	C2-N3-C4	5.29	114.55	111.90
26	BB	706	A	N9-C1'-C2'	-5.29	106.18	112.00
26	BB	1425	G	C5'-C4'-O4'	5.29	115.45	109.10
26	BB	2055	C	N3-C2-O2	-5.29	118.20	121.90
26	BB	2166	U	C4'-C3'-C2'	-5.29	97.31	102.60
26	BB	2243	U	C4-C5-C6	5.29	122.88	119.70
26	BB	2369	A	C1'-O4'-C4'	5.29	114.13	109.90
26	BB	2495	G	C5-N7-C8	-5.29	101.66	104.30
26	BB	2565	A	C1'-O4'-C4'	-5.29	105.67	109.90
26	BB	2820	A	C5-C6-N1	5.29	120.35	117.70
1	AA	657	U	C3'-C2'-C1'	5.29	105.73	101.50
1	AA	1272	G	N3-C4-C5	-5.29	125.95	128.60
5	AE	77	GLU	OE1-CD-OE2	5.29	129.65	123.30
26	BB	354	A	C4-C5-N7	5.29	113.34	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	713	G	C6-N1-C2	-5.29	121.93	125.10
26	BB	836	G	N3-C4-C5	5.29	131.25	128.60
26	BB	883	G	N1-C2-N2	5.29	120.96	116.20
26	BB	1098	A	N1-C2-N3	-5.29	126.66	129.30
26	BB	1807	G	C2-N3-C4	5.29	114.55	111.90
26	BB	2892	G	C5-C6-O6	-5.29	125.43	128.60
1	AA	21	G	C6-N1-C2	-5.29	121.93	125.10
1	AA	85	U	C3'-C2'-C1'	-5.29	97.27	101.50
1	AA	88	U	C4-C5-C6	5.29	122.87	119.70
1	AA	246	A	N7-C8-N9	-5.29	111.16	113.80
1	AA	337	G	N3-C4-N9	-5.29	122.83	126.00
1	AA	636	U	N3-C4-O4	-5.29	115.70	119.40
1	AA	736	C	O4'-C1'-N1	5.29	112.43	108.20
25	BA	39	A	O4'-C4'-C3'	5.29	110.33	106.10
26	BB	312	G	N1-C6-O6	5.29	123.07	119.90
26	BB	1091	G	N3-C4-N9	-5.29	122.83	126.00
26	BB	1103	A	C6-N1-C2	5.29	121.77	118.60
26	BB	1368	G	C4-C5-C6	5.29	121.97	118.80
26	BB	1620	G	C8-N9-C1'	5.29	133.88	127.00
26	BB	2612	C	N3-C4-C5	-5.29	119.78	121.90
26	BB	2747	G	C4'-C3'-C2'	-5.29	97.31	102.60
26	BB	2816	G	C6-N1-C2	-5.29	121.93	125.10
1	AA	20	U	C2-N3-C4	5.29	130.17	127.00
1	AA	807	A	N1-C6-N6	-5.29	115.43	118.60
1	AA	1220	G	C3'-C2'-C1'	-5.29	97.27	101.50
4	AD	54	G	O4'-C4'-C3'	5.29	110.33	106.10
5	AE	190	SER	CB-CA-C	5.29	120.15	110.10
26	BB	216	A	N1-C6-N6	5.29	121.77	118.60
26	BB	396	G	N7-C8-N9	-5.29	110.46	113.10
26	BB	598	U	N1-C2-O2	5.29	126.50	122.80
26	BB	1254	A	C5-C6-N6	-5.29	119.47	123.70
26	BB	1412	U	C5'-C4'-O4'	5.29	115.44	109.10
26	BB	1934	C	O4'-C4'-C3'	-5.29	98.71	104.00
26	BB	1942	C	C2-N3-C4	5.29	122.54	119.90
32	BH	94	ARG	NE-CZ-NH1	5.29	122.94	120.30
56	B5	34	ARG	NE-CZ-NH1	5.29	122.94	120.30
1	AA	175	C	C5'-C4'-O4'	-5.29	102.76	109.10
1	AA	429	U	P-O3'-C3'	5.29	126.04	119.70
1	AA	902	G	P-O5'-C5'	5.29	129.36	120.90
1	AA	1514	G	O4'-C1'-N9	5.29	112.43	108.20
2	AB	52	A	C5'-C4'-C3'	-5.29	107.54	116.00
16	AP	97	ARG	NE-CZ-NH1	5.29	122.94	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	AP	100	ARG	CD-NE-CZ	5.29	131.00	123.60
17	AQ	10	VAL	CG1-CB-CG2	-5.29	102.44	110.90
25	BA	46	A	N1-C6-N6	5.29	121.77	118.60
25	BA	75	G	C1'-O4'-C4'	5.29	114.13	109.90
26	BB	73	A	N7-C8-N9	-5.29	111.16	113.80
26	BB	416	U	N3-C4-C5	-5.29	111.43	114.60
26	BB	447	A	C4-C5-N7	-5.29	108.06	110.70
26	BB	631	A	C6-C5-N7	5.29	136.00	132.30
26	BB	1026	G	P-O3'-C3'	5.29	126.04	119.70
26	BB	1072	C	N1-C2-O2	5.29	122.07	118.90
26	BB	1394	U	N1-C2-O2	-5.29	119.10	122.80
26	BB	1619	G	N3-C2-N2	-5.29	116.20	119.90
26	BB	2137	U	N3-C4-O4	-5.29	115.70	119.40
26	BB	2254	C	N3-C4-C5	5.29	124.01	121.90
26	BB	2337	G	N3-C4-N9	5.29	129.17	126.00
26	BB	2355	G	C1'-O4'-C4'	-5.29	105.67	109.90
26	BB	2606	C	N1-C2-N3	-5.29	115.50	119.20
30	BF	145	ASP	CB-CG-OD1	5.29	123.06	118.30
1	AA	533	A	C5'-C4'-O4'	5.28	115.44	109.10
1	AA	605	U	C6-N1-C1'	5.28	128.60	121.20
1	AA	802	A	N9-C1'-C2'	-5.28	106.19	112.00
1	AA	1542	A	C4'-C3'-C2'	-5.28	97.32	102.60
26	BB	545	U	C2-N3-C4	-5.28	123.83	127.00
26	BB	612	G	N7-C8-N9	-5.28	110.46	113.10
26	BB	649	G	C5-N7-C8	-5.28	101.66	104.30
26	BB	965	C	N3-C2-O2	5.28	125.60	121.90
26	BB	1339	G	N1-C2-N3	-5.28	120.73	123.90
26	BB	1481	U	C5-C6-N1	5.28	125.34	122.70
26	BB	1863	G	N3-C2-N2	-5.28	116.20	119.90
26	BB	2565	A	C6-N1-C2	5.28	121.77	118.60
1	AA	221	C	N1-C2-O2	5.28	122.07	118.90
1	AA	1410	A	P-O3'-C3'	5.28	126.04	119.70
1	AA	1411	C	C4-C5-C6	-5.28	114.76	117.40
1	AA	1458	G	N3-C4-C5	-5.28	125.96	128.60
26	BB	1132	U	O4'-C4'-C3'	5.28	110.33	106.10
26	BB	1403	A	O4'-C4'-C3'	-5.28	98.72	104.00
26	BB	2215	C	P-O3'-C3'	5.28	126.04	119.70
26	BB	2374	C	N3-C2-O2	-5.28	118.20	121.90
26	BB	2455	G	N1-C6-O6	5.28	123.07	119.90
1	AA	65	A	N1-C2-N3	-5.28	126.66	129.30
1	AA	197	A	O5'-C5'-C4'	5.28	121.73	111.70
1	AA	243	A	N1-C2-N3	-5.28	126.66	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	479	U	O4'-C1'-N1	5.28	112.42	108.20
1	AA	729	A	O5'-C5'-C4'	5.28	121.73	111.70
1	AA	749	A	N1-C2-N3	-5.28	126.66	129.30
1	AA	845	A	C6-N1-C2	-5.28	115.43	118.60
1	AA	1462	C	N3-C4-N4	5.28	121.70	118.00
1	AA	1472	U	N1-C2-O2	-5.28	119.10	122.80
10	AJ	153	TYR	CD1-CE1-CZ	-5.28	115.05	119.80
26	BB	209	C	N1-C2-O2	5.28	122.07	118.90
26	BB	481	G	N3-C4-C5	-5.28	125.96	128.60
26	BB	716	A	C5-N7-C8	-5.28	101.26	103.90
26	BB	1122	G	N1-C2-N3	5.28	127.07	123.90
26	BB	1551	A	N1-C2-N3	5.28	131.94	129.30
26	BB	1716	U	N3-C2-O2	-5.28	118.50	122.20
26	BB	2387	U	O4'-C1'-N1	-5.28	103.98	108.20
26	BB	2404	U	C3'-C2'-C1'	-5.28	97.28	101.50
26	BB	2901	C	N3-C4-C5	-5.28	119.79	121.90
28	BD	189	ALA	O-C-N	-5.28	114.25	122.70
40	BP	70	THR	CA-CB-CG2	-5.28	105.01	112.40
50	BZ	51	SER	N-CA-CB	-5.28	102.58	110.50
1	AA	381	C	N3-C4-C5	-5.28	119.79	121.90
2	AB	40	C	O4'-C4'-C3'	5.28	110.32	106.10
2	AB	49	G	C5-C6-N1	5.28	114.14	111.50
26	BB	1	G	N7-C8-N9	5.28	115.74	113.10
26	BB	782	A	N3-C4-N9	-5.28	123.18	127.40
26	BB	867	C	N3-C4-N4	5.28	121.70	118.00
26	BB	1256	G	C1'-O4'-C4'	5.28	114.12	109.90
26	BB	1480	C	C5-C6-N1	-5.28	118.36	121.00
26	BB	1553	A	N1-C6-N6	5.28	121.77	118.60
26	BB	1905	C	N3-C4-C5	-5.28	119.79	121.90
26	BB	2230	G	C5-C6-N1	-5.28	108.86	111.50
32	BH	136	ASP	CB-CG-OD2	-5.28	113.55	118.30
1	AA	99	C	N3-C4-C5	-5.28	119.79	121.90
1	AA	273	U	C6-N1-C2	-5.28	117.83	121.00
1	AA	338	A	O4'-C1'-N9	5.28	112.42	108.20
1	AA	398	U	N3-C4-O4	5.28	123.09	119.40
1	AA	434	U	O4'-C1'-N1	5.28	112.42	108.20
1	AA	598	U	O4'-C1'-N1	5.28	112.42	108.20
1	AA	1239	A	N7-C8-N9	-5.28	111.16	113.80
1	AA	1355	G	N3-C2-N2	-5.28	116.21	119.90
1	AA	1481	U	N1-C2-O2	-5.28	119.11	122.80
26	BB	500	G	C5'-C4'-O4'	5.28	115.43	109.10
26	BB	913	U	C5'-C4'-O4'	-5.28	102.77	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1024	G	O4'-C1'-N9	5.28	112.42	108.20
26	BB	1373	A	C3'-C2'-C1'	-5.28	97.28	101.50
26	BB	1449	G	C5-C6-O6	-5.28	125.43	128.60
26	BB	1715	G	N9-C4-C5	-5.28	103.29	105.40
26	BB	1765	U	C4-C5-C6	5.28	122.87	119.70
26	BB	2007	U	C6-N1-C2	-5.28	117.83	121.00
26	BB	2238	G	O3'-P-O5'	-5.28	93.97	104.00
26	BB	2360	G	C2-N3-C4	5.28	114.54	111.90
26	BB	2653	U	P-O3'-C3'	5.28	126.03	119.70
1	AA	142	G	C5'-C4'-C3'	-5.28	107.56	116.00
1	AA	525	C	OP1-P-OP2	-5.28	111.69	119.60
1	AA	928	G	C5-C6-O6	-5.28	125.44	128.60
1	AA	1198	G	O4'-C1'-N9	5.28	112.42	108.20
1	AA	1503	A	C2-N3-C4	5.28	113.24	110.60
25	BA	20	G	O4'-C4'-C3'	5.28	110.32	106.10
26	BB	52	A	C5-C6-N6	5.28	127.92	123.70
26	BB	507	A	C4-C5-C6	-5.28	114.36	117.00
26	BB	741	U	C5'-C4'-C3'	-5.28	107.56	116.00
26	BB	992	C	C6-N1-C2	-5.28	118.19	120.30
26	BB	1012	U	N1-C2-N3	5.28	118.07	114.90
26	BB	1517	G	N1-C2-N3	-5.28	120.73	123.90
26	BB	1697	G	C2'-C3'-O3'	5.28	122.14	113.70
26	BB	1701	A	N1-C2-N3	5.28	131.94	129.30
26	BB	1987	A	C5-C6-N6	-5.28	119.48	123.70
26	BB	2476	A	P-O3'-C3'	5.28	126.03	119.70
1	AA	554	A	C5-C6-N1	5.27	120.34	117.70
1	AA	992	U	C3'-C2'-C1'	-5.27	97.28	101.50
1	AA	1085	U	N1-C2-O2	5.27	126.49	122.80
26	BB	367	G	N3-C2-N2	5.27	123.59	119.90
26	BB	947	A	C6-C5-N7	5.27	135.99	132.30
26	BB	1347	A	N7-C8-N9	5.27	116.44	113.80
26	BB	2556	C	C4-C5-C6	5.27	120.04	117.40
50	BZ	26	ARG	NE-CZ-NH2	-5.27	117.66	120.30
56	B5	19	ARG	NE-CZ-NH1	-5.27	117.66	120.30
1	AA	37	U	C2-N3-C4	-5.27	123.84	127.00
1	AA	188	C	O5'-P-OP2	-5.27	100.96	105.70
1	AA	383	A	C4'-C3'-C2'	-5.27	97.33	102.60
1	AA	610	U	O5'-P-OP2	-5.27	100.95	105.70
1	AA	1272	G	C5'-C4'-O4'	-5.27	102.77	109.10
4	AD	72	C	N3-C4-N4	5.27	121.69	118.00
6	AF	21	TRP	NE1-CE2-CD2	-5.27	102.03	107.30
25	BA	84	G	N1-C6-O6	5.27	123.06	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	196	A	C8-N9-C4	-5.27	103.69	105.80
26	BB	233	A	C2-N3-C4	5.27	113.24	110.60
26	BB	391	A	C5-N7-C8	-5.27	101.26	103.90
26	BB	446	G	N9-C1'-C2'	-5.27	106.20	112.00
26	BB	621	A	O4'-C1'-N9	-5.27	103.98	108.20
26	BB	805	G	C6-N1-C2	-5.27	121.94	125.10
26	BB	896	A	P-O3'-C3'	5.27	126.03	119.70
26	BB	1121	C	N1-C1'-C2'	-5.27	106.20	112.00
26	BB	1410	G	C5-C6-O6	-5.27	125.44	128.60
26	BB	1531	C	N3-C4-N4	5.27	121.69	118.00
26	BB	1844	C	O4'-C4'-C3'	-5.27	98.73	104.00
26	BB	1912	A	C5-C6-N1	5.27	120.34	117.70
26	BB	1927	A	C6-C5-N7	5.27	135.99	132.30
26	BB	2363	G	N3-C4-C5	-5.27	125.96	128.60
26	BB	2464	G	N3-C4-N9	5.27	129.16	126.00
26	BB	2736	A	C8-N9-C4	5.27	107.91	105.80
1	AA	342	C	C3'-C2'-C1'	-5.27	97.28	101.50
1	AA	1385	G	N3-C2-N2	-5.27	116.21	119.90
1	AA	1392	G	C1'-O4'-C4'	-5.27	105.68	109.90
8	AH	17	VAL	CG1-CB-CG2	-5.27	102.47	110.90
9	AI	96	VAL	CA-CB-CG1	5.27	118.81	110.90
26	BB	196	A	C5'-C4'-O4'	5.27	115.42	109.10
26	BB	251	A	P-O5'-C5'	5.27	129.33	120.90
26	BB	993	G	C4'-C3'-C2'	-5.27	97.33	102.60
26	BB	1274	A	C4'-C3'-C2'	-5.27	97.33	102.60
26	BB	2042	A	N1-C6-N6	5.27	121.76	118.60
26	BB	2439	A	C8-N9-C4	5.27	107.91	105.80
26	BB	2763	G	C5-C6-N1	5.27	114.14	111.50
26	BB	2766	A	N1-C2-N3	-5.27	126.67	129.30
1	AA	168	G	C5'-C4'-C3'	-5.27	107.57	116.00
1	AA	204	G	O4'-C1'-N9	5.27	112.42	108.20
1	AA	383	A	N1-C6-N6	5.27	121.76	118.60
1	AA	720	C	C6-N1-C2	-5.27	118.19	120.30
1	AA	730	G	C8-N9-C1'	5.27	133.85	127.00
2	AB	43	G	C3'-C2'-C1'	5.27	105.72	101.50
9	AI	126	ALA	C-N-CA	5.27	133.36	122.30
26	BB	199	A	N1-C6-N6	5.27	121.76	118.60
26	BB	530	G	C2-N3-C4	-5.27	109.27	111.90
26	BB	1114	C	C4-C5-C6	5.27	120.03	117.40
26	BB	1279	G	C4-C5-C6	5.27	121.96	118.80
26	BB	1328	A	N3-C4-N9	-5.27	123.18	127.40
26	BB	1815	A	C4-C5-N7	-5.27	108.06	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2858	C	C6-N1-C2	-5.27	118.19	120.30
56	B5	14	ARG	NE-CZ-NH1	-5.27	117.67	120.30
1	AA	346	G	O3'-P-O5'	5.27	114.01	104.00
1	AA	349	A	C2-N3-C4	5.27	113.23	110.60
1	AA	436	C	C6-N1-C2	5.27	122.41	120.30
1	AA	794	A	C4-C5-N7	5.27	113.33	110.70
1	AA	897	C	C1'-O4'-C4'	-5.27	105.69	109.90
1	AA	1017	U	N3-C4-O4	-5.27	115.71	119.40
1	AA	1058	G	N1-C6-O6	-5.27	116.74	119.90
1	AA	1175	G	N3-C4-N9	5.27	129.16	126.00
1	AA	1539	C	C5-C6-N1	-5.27	118.37	121.00
2	AB	5	G	C4'-C3'-C2'	-5.27	97.33	102.60
2	AB	18	G	N9-C1'-C2'	5.27	120.85	114.00
4	AD	14	A	N1-C6-N6	-5.27	115.44	118.60
25	BA	64	G	N7-C8-N9	5.27	115.73	113.10
25	BA	73	A	C8-N9-C4	-5.27	103.69	105.80
26	BB	408	G	C3'-C2'-C1'	-5.27	97.29	101.50
26	BB	592	A	C4-C5-C6	5.27	119.63	117.00
26	BB	670	A	C5-C6-N6	-5.27	119.49	123.70
26	BB	927	A	C5-C6-N1	-5.27	115.07	117.70
26	BB	1170	C	C5'-C4'-C3'	-5.27	107.57	116.00
26	BB	1339	G	C5-C6-N1	5.27	114.13	111.50
26	BB	2242	G	C4'-C3'-C2'	-5.27	97.33	102.60
26	BB	2572	A	C6-N1-C2	5.27	121.76	118.60
26	BB	2699	C	C5-C6-N1	5.27	123.63	121.00
1	AA	173	U	C5-C6-N1	-5.27	120.07	122.70
1	AA	742	G	C8-N9-C1'	5.27	133.85	127.00
1	AA	1343	G	N1-C2-N2	5.27	120.94	116.20
3	AC	55	A	C1'-O4'-C4'	-5.27	105.69	109.90
25	BA	25	U	C3'-C2'-C1'	5.27	105.71	101.50
25	BA	112	G	C4'-C3'-C2'	-5.27	97.33	102.60
26	BB	238	C	C6-N1-C2	5.27	122.41	120.30
26	BB	1519	G	C5'-C4'-C3'	-5.27	107.58	116.00
26	BB	2407	A	C4-C5-C6	-5.27	114.37	117.00
1	AA	424	G	C6-N1-C2	-5.26	121.94	125.10
1	AA	1010	U	C4-C5-C6	5.26	122.86	119.70
1	AA	1234	C	C6-N1-C1'	5.26	127.12	120.80
1	AA	1410	A	C5'-C4'-C3'	-5.26	107.58	116.00
3	AC	42	U	C2-N3-C4	5.26	130.16	127.00
25	BA	39	A	C1'-O4'-C4'	-5.26	105.69	109.90
26	BB	690	G	N3-C4-N9	-5.26	122.84	126.00
26	BB	785	G	C8-N9-C1'	5.26	133.84	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1090	A	N3-C4-C5	-5.26	123.11	126.80
26	BB	1147	A	C5'-C4'-C3'	-5.26	107.58	116.00
26	BB	1203	U	O4'-C4'-C3'	5.26	110.31	106.10
26	BB	2035	G	N1-C6-O6	-5.26	116.74	119.90
26	BB	2062	A	C4-C5-C6	-5.26	114.37	117.00
26	BB	2133	G	C4-C5-N7	-5.26	108.69	110.80
26	BB	2227	A	N7-C8-N9	5.26	116.43	113.80
26	BB	2374	C	C5'-C4'-C3'	-5.26	107.58	116.00
26	BB	2595	G	C4-C5-C6	5.26	121.96	118.80
26	BB	2833	U	C3'-C2'-C1'	5.26	105.71	101.50
1	AA	112	G	O4'-C1'-N9	5.26	112.41	108.20
1	AA	394	G	C5'-C4'-O4'	5.26	115.42	109.10
1	AA	1251	A	C4'-C3'-C2'	-5.26	97.34	102.60
1	AA	1396	A	C2-N3-C4	5.26	113.23	110.60
26	BB	770	G	C5'-C4'-C3'	-5.26	107.58	116.00
26	BB	1619	G	C4-C5-N7	-5.26	108.69	110.80
26	BB	2087	G	C5-N7-C8	-5.26	101.67	104.30
26	BB	2849	U	N3-C4-C5	-5.26	111.44	114.60
1	AA	1124	G	C5-C6-O6	5.26	131.76	128.60
1	AA	1278	G	C2-N3-C4	5.26	114.53	111.90
1	AA	1337	G	C2-N3-C4	5.26	114.53	111.90
1	AA	1385	G	N7-C8-N9	5.26	115.73	113.10
15	AO	32	VAL	CA-CB-CG1	5.26	118.79	110.90
20	AT	61	ARG	NE-CZ-NH1	5.26	122.93	120.30
26	BB	326	G	C8-N9-C1'	5.26	133.84	127.00
26	BB	468	G	C8-N9-C1'	5.26	133.84	127.00
26	BB	892	A	O3'-P-O5'	-5.26	94.00	104.00
26	BB	1227	G	C4-C5-N7	5.26	112.91	110.80
26	BB	1517	G	C6-C5-N7	-5.26	127.24	130.40
26	BB	1544	A	C5'-C4'-C3'	-5.26	107.58	116.00
26	BB	1608	A	C6-C5-N7	-5.26	128.62	132.30
26	BB	1773	A	N3-C4-C5	-5.26	123.12	126.80
26	BB	2014	A	C1'-O4'-C4'	-5.26	105.69	109.90
26	BB	2358	A	N1-C6-N6	-5.26	115.44	118.60
26	BB	2566	A	N3-C4-N9	5.26	131.61	127.40
45	BU	95	ARG	NE-CZ-NH2	-5.26	117.67	120.30
1	AA	248	C	O4'-C1'-N1	5.26	112.41	108.20
1	AA	360	G	C5-C6-N1	5.26	114.13	111.50
1	AA	616	G	P-O3'-C3'	5.26	126.01	119.70
1	AA	817	C	O5'-C5'-C4'	-5.26	101.71	111.70
1	AA	942	G	C4-C5-C6	5.26	121.96	118.80
1	AA	942	G	O4'-C1'-C2'	5.26	112.33	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1051	C	C5-C6-N1	5.26	123.63	121.00
1	AA	1208	C	N3-C4-C5	5.26	124.00	121.90
1	AA	1280	A	C5-C6-N6	-5.26	119.49	123.70
4	AD	39	A	C5-C6-N6	-5.26	119.49	123.70
26	BB	1254	A	P-O3'-C3'	5.26	126.01	119.70
26	BB	1285	A	C6-N1-C2	5.26	121.75	118.60
26	BB	2472	G	C5-N7-C8	-5.26	101.67	104.30
26	BB	2588	G	N3-C4-C5	-5.26	125.97	128.60
43	BS	97	ILE	CB-CA-C	5.26	122.12	111.60
1	AA	681	A	C8-N9-C4	-5.26	103.70	105.80
1	AA	821	G	N3-C4-C5	5.26	131.23	128.60
25	BA	109	A	C5-C6-N6	-5.26	119.49	123.70
26	BB	1558	C	N1-C2-N3	-5.26	115.52	119.20
26	BB	1607	C	O4'-C4'-C3'	5.26	110.31	106.10
26	BB	1709	U	C6-N1-C2	-5.26	117.84	121.00
26	BB	2164	C	C1'-O4'-C4'	-5.26	105.69	109.90
30	BF	21	ARG	CD-NE-CZ	5.26	130.96	123.60
44	BT	74	ILE	CA-CB-CG1	5.26	120.99	111.00
1	AA	1287	A	C5'-C4'-O4'	5.26	115.41	109.10
2	AB	66	C	C5-C4-N4	-5.26	116.52	120.20
6	AF	167	TYR	CG-CD1-CE1	-5.26	117.09	121.30
25	BA	71	C	N3-C4-C5	5.26	124.00	121.90
26	BB	209	C	C5-C6-N1	-5.26	118.37	121.00
26	BB	836	G	C8-N9-C4	-5.26	104.30	106.40
26	BB	917	A	C4-C5-C6	5.26	119.63	117.00
26	BB	1441	G	N9-C1'-C2'	-5.26	106.22	112.00
26	BB	1609	A	C4-C5-N7	-5.26	108.07	110.70
26	BB	1651	G	C4'-C3'-C2'	-5.26	97.34	102.60
26	BB	1762	A	N3-C4-N9	-5.26	123.19	127.40
26	BB	1820	U	C4'-C3'-C2'	-5.26	97.34	102.60
26	BB	2811	G	C4-C5-N7	-5.26	108.70	110.80
34	BJ	55	ARG	NE-CZ-NH1	-5.26	117.67	120.30
1	AA	68	G	C5-N7-C8	-5.25	101.67	104.30
26	BB	80	G	O4'-C4'-C3'	5.25	110.30	106.10
26	BB	144	A	C6-C5-N7	5.25	135.98	132.30
26	BB	765	C	C5-C4-N4	5.25	123.88	120.20
1	AA	8	A	N3-C4-N9	-5.25	123.20	127.40
1	AA	241	G	N7-C8-N9	5.25	115.73	113.10
1	AA	470	C	C5-C4-N4	-5.25	116.52	120.20
1	AA	506	G	N3-C4-C5	-5.25	125.97	128.60
1	AA	775	G	C4'-C3'-C2'	-5.25	97.35	102.60
4	AD	52	C	C2-N3-C4	5.25	122.53	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AV	13	HIS	CA-CB-CG	5.25	122.53	113.60
26	BB	364	C	N3-C2-O2	-5.25	118.22	121.90
26	BB	690	G	O4'-C1'-N9	5.25	112.40	108.20
26	BB	1246	A	N9-C4-C5	-5.25	103.70	105.80
26	BB	1722	A	O4'-C1'-N9	5.25	112.40	108.20
26	BB	1914	C	C6-N1-C2	-5.25	118.20	120.30
26	BB	2239	G	N1-C2-N2	-5.25	111.47	116.20
26	BB	2254	C	C2-N3-C4	5.25	122.53	119.90
26	BB	2455	G	C1'-O4'-C4'	-5.25	105.70	109.90
26	BB	2568	U	N3-C2-O2	-5.25	118.52	122.20
26	BB	2679	A	O5'-C5'-C4'	5.25	121.68	111.70
26	BB	2749	A	N3-C4-N9	5.25	131.60	127.40
26	BB	2821	A	C5-N7-C8	-5.25	101.27	103.90
1	AA	190	A	C4'-C3'-C2'	-5.25	97.35	102.60
1	AA	444	G	N9-C4-C5	5.25	107.50	105.40
1	AA	510	A	N9-C4-C5	-5.25	103.70	105.80
1	AA	1021	A	C5-C6-N1	5.25	120.33	117.70
1	AA	1037	C	N1-C2-N3	5.25	122.88	119.20
1	AA	1144	G	C5-N7-C8	-5.25	101.67	104.30
1	AA	1185	G	C4'-C3'-C2'	5.25	107.85	102.60
1	AA	1303	C	C6-N1-C1'	5.25	127.10	120.80
1	AA	1542	A	O4'-C1'-C2'	-5.25	100.55	105.80
7	AG	74	TYR	CB-CG-CD2	5.25	124.15	121.00
25	BA	6	G	C6-C5-N7	-5.25	127.25	130.40
26	BB	240	C	N3-C4-C5	-5.25	119.80	121.90
26	BB	330	A	N7-C8-N9	5.25	116.42	113.80
26	BB	584	C	C5'-C4'-C3'	-5.25	107.60	116.00
26	BB	804	A	C2-N3-C4	-5.25	107.97	110.60
26	BB	934	U	C1'-O4'-C4'	-5.25	105.70	109.90
26	BB	1009	A	C1'-O4'-C4'	-5.25	105.70	109.90
26	BB	1084	A	N1-C2-N3	5.25	131.93	129.30
26	BB	1429	G	N3-C4-C5	-5.25	125.97	128.60
26	BB	1687	G	C5-C6-O6	-5.25	125.45	128.60
26	BB	1989	G	C5'-C4'-O4'	5.25	115.40	109.10
26	BB	2049	G	O4'-C4'-C3'	5.25	110.30	106.10
26	BB	2325	G	O4'-C1'-N9	5.25	112.40	108.20
26	BB	2438	U	O4'-C1'-N1	5.25	112.40	108.20
26	BB	2607	G	P-O3'-C3'	5.25	126.00	119.70
26	BB	2701	U	C2-N3-C4	-5.25	123.85	127.00
26	BB	2901	C	C3'-C2'-C1'	-5.25	97.30	101.50
36	BL	141	ASP	CB-CG-OD1	-5.25	113.57	118.30
1	AA	254	G	C4-C5-C6	5.25	121.95	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	824	G	C3'-C2'-C1'	-5.25	97.30	101.50
1	AA	1053	G	N1-C2-N3	-5.25	120.75	123.90
1	AA	1122	U	N1-C1'-C2'	-5.25	106.22	112.00
2	AB	3	G	C8-N9-C4	5.25	108.50	106.40
7	AG	61	ARG	NH1-CZ-NH2	-5.25	113.62	119.40
26	BB	838	C	C5-C4-N4	5.25	123.88	120.20
26	BB	921	C	N3-C4-N4	5.25	121.67	118.00
26	BB	1072	C	C6-N1-C2	5.25	122.40	120.30
26	BB	1086	A	C5-C6-N1	5.25	120.33	117.70
26	BB	2478	A	C5-N7-C8	-5.25	101.28	103.90
1	AA	142	G	C8-N9-C4	5.25	108.50	106.40
1	AA	145	G	N3-C4-C5	-5.25	125.98	128.60
1	AA	167	A	N1-C2-N3	-5.25	126.67	129.30
1	AA	235	C	C4-C5-C6	5.25	120.02	117.40
1	AA	262	A	P-O3'-C3'	5.25	126.00	119.70
1	AA	473	U	C4-C5-C6	5.25	122.85	119.70
1	AA	1061	G	P-O3'-C3'	5.25	126.00	119.70
1	AA	1182	G	C5-C6-N1	-5.25	108.88	111.50
1	AA	1260	G	C2'-C3'-O3'	5.25	122.10	113.70
2	AB	35	C	N3-C4-C5	-5.25	119.80	121.90
3	AC	24	A	N1-C2-N3	-5.25	126.67	129.30
4	AD	26	C	N1-C2-O2	-5.25	115.75	118.90
4	AD	61	U	O4'-C1'-N1	5.25	112.40	108.20
21	AU	3	TYR	CB-CG-CD1	-5.25	117.85	121.00
26	BB	56	A	N9-C1'-C2'	-5.25	106.23	112.00
26	BB	99	U	N1-C2-N3	-5.25	111.75	114.90
26	BB	611	C	N1-C1'-C2'	-5.25	106.23	112.00
26	BB	815	C	P-O3'-C3'	5.25	126.00	119.70
26	BB	1973	G	C1'-O4'-C4'	-5.25	105.70	109.90
26	BB	2489	U	C5'-C4'-O4'	5.25	115.40	109.10
26	BB	2655	G	N3-C2-N2	5.25	123.57	119.90
26	BB	2697	G	C5'-C4'-O4'	5.25	115.40	109.10
56	B5	7	PRO	N-CD-CG	5.25	111.07	103.20
1	AA	118	U	O3'-P-O5'	5.25	113.97	104.00
1	AA	318	G	N9-C4-C5	-5.25	103.30	105.40
1	AA	782	A	N9-C1'-C2'	-5.25	106.23	112.00
1	AA	937	A	N3-C4-N9	5.25	131.60	127.40
2	AB	9	A	O5'-C5'-C4'	-5.25	101.73	111.70
14	AN	106	ILE	CB-CA-C	5.25	122.09	111.60
25	BA	11	C	C6-N1-C2	5.25	122.40	120.30
25	BA	70	C	C5'-C4'-O4'	5.25	115.39	109.10
26	BB	37	C	O4'-C4'-C3'	-5.25	98.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	787	C	N1-C2-N3	5.25	122.87	119.20
26	BB	1277	G	C1'-O4'-C4'	5.25	114.10	109.90
26	BB	1756	G	P-O3'-C3'	5.25	126.00	119.70
26	BB	1886	U	C5'-C4'-O4'	5.25	115.40	109.10
26	BB	1996	C	N3-C2-O2	-5.25	118.23	121.90
26	BB	2215	C	C5'-C4'-C3'	-5.25	107.61	116.00
26	BB	2301	C	C2'-C3'-O3'	5.25	122.09	113.70
26	BB	2329	U	O4'-C1'-N1	5.25	112.40	108.20
26	BB	2862	G	N7-C8-N9	5.25	115.72	113.10
28	BD	154	ALA	N-CA-CB	5.25	117.44	110.10
1	AA	795	C	C4-C5-C6	5.25	120.02	117.40
1	AA	1274	A	C4-C5-N7	-5.25	108.08	110.70
9	AI	80	PHE	CB-CG-CD2	-5.25	117.13	120.80
21	AU	5	ARG	NE-CZ-NH1	5.25	122.92	120.30
25	BA	90	C	N1-C2-O2	5.25	122.05	118.90
26	BB	1686	C	O5'-P-OP1	-5.25	100.98	105.70
33	BI	31	VAL	CG1-CB-CG2	-5.25	102.51	110.90
1	AA	306	A	N1-C2-N3	-5.24	126.68	129.30
1	AA	732	C	C3'-C2'-C1'	5.24	105.69	101.50
1	AA	972	C	N3-C4-N4	-5.24	114.33	118.00
4	AD	30	G	C4'-C3'-C2'	-5.24	97.36	102.60
26	BB	242	G	N3-C4-C5	-5.24	125.98	128.60
26	BB	339	U	C1'-O4'-C4'	-5.24	105.71	109.90
26	BB	402	A	C8-N9-C4	5.24	107.90	105.80
26	BB	531	C	O4'-C1'-C2'	-5.24	100.56	105.80
26	BB	1042	G	N9-C4-C5	-5.24	103.30	105.40
26	BB	1083	U	N1-C2-O2	5.24	126.47	122.80
26	BB	1705	A	C4-C5-C6	-5.24	114.38	117.00
26	BB	1731	G	O4'-C1'-N9	5.24	112.39	108.20
26	BB	1752	C	C3'-C2'-C1'	5.24	105.69	101.50
26	BB	2081	U	C2-N3-C4	-5.24	123.85	127.00
26	BB	2599	G	C6-N1-C2	-5.24	121.95	125.10
26	BB	2693	G	C6-C5-N7	5.24	133.55	130.40
26	BB	2874	C	O3'-P-O5'	-5.24	94.04	104.00
32	BH	148	ARG	N-CA-C	5.24	125.16	111.00
1	AA	191	G	C8-N9-C1'	5.24	133.81	127.00
1	AA	884	U	N1-C2-N3	5.24	118.05	114.90
1	AA	934	C	N3-C2-O2	-5.24	118.23	121.90
1	AA	1150	A	N1-C2-N3	-5.24	126.68	129.30
25	BA	21	G	C3'-C2'-C1'	-5.24	97.31	101.50
26	BB	40	U	N1-C1'-C2'	-5.24	106.23	112.00
26	BB	1309	G	C8-N9-C4	-5.24	104.30	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1758	U	C4'-C3'-C2'	5.24	107.84	102.60
26	BB	2108	A	P-O3'-C3'	5.24	125.99	119.70
26	BB	2415	G	N1-C6-O6	5.24	123.05	119.90
26	BB	2557	G	N3-C4-C5	-5.24	125.98	128.60
1	AA	248	C	N3-C4-N4	5.24	121.67	118.00
1	AA	332	G	C4-C5-N7	-5.24	108.70	110.80
1	AA	454	G	N9-C1'-C2'	5.24	120.81	114.00
1	AA	466	A	N3-C4-C5	-5.24	123.13	126.80
1	AA	493	A	N1-C6-N6	5.24	121.75	118.60
1	AA	690	G	P-O3'-C3'	5.24	125.99	119.70
1	AA	1077	G	C6-N1-C2	-5.24	121.95	125.10
1	AA	1134	G	C2-N3-C4	-5.24	109.28	111.90
14	AN	97	ARG	NH1-CZ-NH2	5.24	125.16	119.40
26	BB	320	A	C8-N9-C4	-5.24	103.70	105.80
26	BB	1241	A	O4'-C4'-C3'	5.24	110.29	106.10
26	BB	1432	G	N3-C4-C5	-5.24	125.98	128.60
26	BB	2332	C	O5'-C5'-C4'	-5.24	101.74	111.70
26	BB	2588	G	N3-C4-N9	5.24	129.14	126.00
26	BB	2899	A	N9-C4-C5	5.24	107.90	105.80
45	BU	68	ASP	CB-CG-OD2	-5.24	113.58	118.30
1	AA	8	A	N1-C6-N6	-5.24	115.46	118.60
1	AA	22	G	C5-C6-O6	-5.24	125.46	128.60
1	AA	134	G	N3-C4-N9	5.24	129.14	126.00
1	AA	173	U	C2'-C3'-O3'	5.24	122.08	113.70
1	AA	329	A	C3'-C2'-C1'	-5.24	97.31	101.50
1	AA	374	A	C4-C5-N7	-5.24	108.08	110.70
1	AA	467	U	C5-C4-O4	-5.24	122.76	125.90
1	AA	796	C	C5-C6-N1	-5.24	118.38	121.00
1	AA	938	A	OP2-P-O3'	5.24	116.73	105.20
1	AA	941	G	N3-C4-N9	-5.24	122.86	126.00
1	AA	1141	C	C3'-C2'-C1'	5.24	105.69	101.50
2	AB	44	G	N1-C2-N2	-5.24	111.48	116.20
26	BB	517	C	N3-C4-C5	-5.24	119.81	121.90
26	BB	767	U	N3-C4-O4	-5.24	115.73	119.40
26	BB	1075	C	C6-N1-C2	-5.24	118.20	120.30
26	BB	1464	G	O4'-C1'-N9	5.24	112.39	108.20
26	BB	1667	G	C5-C6-N1	5.24	114.12	111.50
26	BB	1879	C	N1-C2-O2	5.24	122.04	118.90
26	BB	1897	G	C8-N9-C4	-5.24	104.31	106.40
26	BB	1980	G	N1-C2-N2	5.24	120.92	116.20
26	BB	2073	C	P-O5'-C5'	-5.24	112.52	120.90
26	BB	2310	C	C6-N1-C2	5.24	122.39	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2864	G	O4'-C1'-N9	5.24	112.39	108.20
48	BX	29	ILE	CA-CB-CG1	5.24	120.95	111.00
1	AA	579	A	P-O3'-C3'	5.24	125.98	119.70
1	AA	992	U	N3-C4-C5	5.24	117.74	114.60
1	AA	1337	G	C5'-C4'-O4'	5.24	115.39	109.10
3	AC	35	G	N9-C1'-C2'	-5.24	106.24	112.00
16	AP	91	ARG	NE-CZ-NH1	5.24	122.92	120.30
26	BB	343	C	C3'-C2'-C1'	5.24	105.69	101.50
26	BB	1846	G	N9-C1'-C2'	-5.24	106.24	112.00
26	BB	2171	A	C5-N7-C8	5.24	106.52	103.90
26	BB	2366	A	O4'-C1'-N9	5.24	112.39	108.20
1	AA	140	U	N3-C4-O4	5.24	123.06	119.40
1	AA	233	C	OP1-P-O3'	5.24	116.72	105.20
1	AA	559	A	C1'-O4'-C4'	-5.24	105.71	109.90
1	AA	864	A	C6-N1-C2	-5.24	115.46	118.60
1	AA	1094	G	N3-C4-N9	-5.24	122.86	126.00
2	AB	76	A	O5'-P-OP1	5.24	116.98	110.70
4	AD	47	A	C5-C6-N6	-5.24	119.51	123.70
10	AJ	17	PHE	CB-CG-CD1	5.24	124.47	120.80
19	AS	33	ILE	CG1-CB-CG2	-5.24	99.88	111.40
26	BB	63	A	N1-C6-N6	5.24	121.74	118.60
26	BB	690	G	N3-C2-N2	-5.24	116.23	119.90
26	BB	1214	A	C6-N1-C2	5.24	121.74	118.60
26	BB	1313	U	N3-C4-O4	-5.24	115.73	119.40
26	BB	1425	G	C8-N9-C1'	5.24	133.81	127.00
26	BB	1740	G	O3'-P-O5'	5.24	113.95	104.00
26	BB	1981	A	C4-C5-C6	-5.24	114.38	117.00
26	BB	2235	G	C6-C5-N7	-5.24	127.26	130.40
26	BB	2319	G	C4'-C3'-C2'	5.24	107.84	102.60
28	BD	227	VAL	CA-CB-CG2	-5.24	103.05	110.90
1	AA	997	U	C5'-C4'-C3'	-5.23	107.62	116.00
1	AA	1191	A	O4'-C4'-C3'	5.23	110.29	106.10
26	BB	504	A	C1'-O4'-C4'	-5.23	105.71	109.90
26	BB	518	G	C6-N1-C2	-5.23	121.96	125.10
26	BB	630	G	C1'-O4'-C4'	-5.23	105.71	109.90
26	BB	1162	G	N3-C2-N2	-5.23	116.24	119.90
26	BB	2008	C	N1-C2-O2	5.23	122.04	118.90
26	BB	2550	G	N1-C2-N3	-5.23	120.76	123.90
1	AA	190	A	N1-C2-N3	5.23	131.92	129.30
1	AA	457	G	N7-C8-N9	-5.23	110.48	113.10
1	AA	476	U	C6-N1-C2	-5.23	117.86	121.00
1	AA	725	G	C4-C5-N7	-5.23	108.71	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	814	A	O4'-C1'-N9	5.23	112.39	108.20
26	BB	319	G	C2-N3-C4	5.23	114.52	111.90
26	BB	705	A	N7-C8-N9	5.23	116.42	113.80
26	BB	870	U	C5-C6-N1	5.23	125.32	122.70
26	BB	1112	G	C4-C5-N7	-5.23	108.71	110.80
26	BB	1150	C	C4-C5-C6	-5.23	114.78	117.40
26	BB	1204	A	P-O3'-C3'	5.23	125.98	119.70
26	BB	1784	A	N3-C4-C5	-5.23	123.14	126.80
26	BB	2266	A	C5-N7-C8	-5.23	101.28	103.90
26	BB	2391	G	O4'-C1'-N9	5.23	112.39	108.20
26	BB	2809	A	C5-C6-N6	5.23	127.89	123.70
1	AA	131	A	N1-C6-N6	-5.23	115.46	118.60
1	AA	197	A	N1-C2-N3	5.23	131.91	129.30
1	AA	299	G	C2-N3-C4	5.23	114.52	111.90
1	AA	850	U	O4'-C4'-C3'	5.23	110.28	106.10
1	AA	987	G	N1-C6-O6	5.23	123.04	119.90
1	AA	1018	G	C5'-C4'-O4'	5.23	115.38	109.10
21	AU	24	ASP	CB-CG-OD2	-5.23	113.59	118.30
26	BB	1147	A	C4-C5-N7	5.23	113.31	110.70
26	BB	1520	U	C2-N3-C4	5.23	130.14	127.00
26	BB	1601	G	N1-C2-N2	-5.23	111.49	116.20
26	BB	1701	A	C6-N1-C2	-5.23	115.46	118.60
26	BB	1840	G	N3-C2-N2	-5.23	116.24	119.90
26	BB	2130	U	C5'-C4'-C3'	-5.23	107.63	116.00
26	BB	2221	G	C4-C5-N7	5.23	112.89	110.80
26	BB	2380	C	C3'-C2'-C1'	-5.23	97.32	101.50
26	BB	2692	G	N1-C2-N3	5.23	127.04	123.90
1	AA	128	G	C2'-C3'-O3'	5.23	122.07	113.70
1	AA	756	C	C4'-C3'-C2'	-5.23	97.37	102.60
1	AA	1133	G	C8-N9-C1'	5.23	133.80	127.00
26	BB	864	G	P-O3'-C3'	5.23	125.97	119.70
26	BB	1459	G	C6-N1-C2	5.23	128.24	125.10
26	BB	1842	G	N9-C4-C5	-5.23	103.31	105.40
26	BB	2232	C	C1'-O4'-C4'	-5.23	105.72	109.90
1	AA	151	A	N1-C2-N3	-5.23	126.69	129.30
1	AA	169	C	O4'-C1'-C2'	5.23	112.31	107.60
1	AA	405	U	C5-C4-O4	5.23	129.04	125.90
1	AA	836	G	N1-C2-N2	5.23	120.91	116.20
1	AA	951	G	N1-C6-O6	5.23	123.04	119.90
1	AA	1012	A	C5-C6-N6	-5.23	119.52	123.70
1	AA	1279	G	N3-C4-C5	-5.23	125.99	128.60
4	AD	1	C	C5-C4-N4	5.23	123.86	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	319	G	C4-C5-N7	-5.23	108.71	110.80
26	BB	438	G	C5-C6-N1	5.23	114.11	111.50
26	BB	1612	C	O4'-C1'-N1	5.23	112.38	108.20
26	BB	1813	G	C3'-C2'-C1'	5.23	105.68	101.50
26	BB	2294	G	C3'-C2'-C1'	5.23	105.68	101.50
26	BB	2329	U	C2-N3-C4	-5.23	123.86	127.00
26	BB	2590	A	C4-C5-C6	5.23	119.61	117.00
26	BB	2789	C	N1-C2-O2	5.23	122.04	118.90
48	BX	82	TYR	CG-CD1-CE1	-5.23	117.12	121.30
1	AA	39	G	N3-C4-N9	5.23	129.14	126.00
1	AA	842	U	N1-C2-N3	5.23	118.04	114.90
1	AA	1255	G	C5-N7-C8	5.23	106.91	104.30
26	BB	899	A	O4'-C1'-C2'	-5.23	100.57	105.80
26	BB	2141	G	C4-C5-N7	5.23	112.89	110.80
26	BB	2161	C	C5-C6-N1	5.23	123.61	121.00
30	BF	60	TRP	CG-CD2-CE3	-5.23	129.20	133.90
1	AA	39	G	O4'-C4'-C3'	-5.22	98.78	104.00
1	AA	343	U	C5-C4-O4	-5.22	122.77	125.90
1	AA	416	G	N1-C6-O6	5.22	123.03	119.90
1	AA	436	C	N1-C2-N3	-5.22	115.54	119.20
1	AA	1352	C	C4-C5-C6	5.22	120.01	117.40
2	AB	49	G	O4'-C1'-C2'	-5.22	100.58	105.80
4	AD	29	C	C5'-C4'-O4'	5.22	115.37	109.10
22	AV	82	HIS	N-CA-CB	-5.22	101.19	110.60
25	BA	32	U	C4-C5-C6	5.22	122.83	119.70
25	BA	64	G	C2-N3-C4	5.22	114.51	111.90
25	BA	106	G	C5-N7-C8	5.22	106.91	104.30
26	BB	105	C	N1-C1'-C2'	-5.22	106.25	112.00
26	BB	186	G	O4'-C1'-N9	5.22	112.38	108.20
26	BB	273	G	C3'-C2'-O2'	-5.22	98.15	113.30
26	BB	481	G	C6-N1-C2	-5.22	121.97	125.10
26	BB	619	G	C4-C5-C6	5.22	121.94	118.80
26	BB	666	A	O5'-C5'-C4'	-5.22	101.78	111.70
26	BB	1138	G	N1-C2-N3	-5.22	120.77	123.90
26	BB	1286	A	C3'-C2'-C1'	-5.22	97.32	101.50
26	BB	1363	C	O4'-C1'-N1	5.22	112.38	108.20
26	BB	1389	G	C5'-C4'-O4'	5.22	115.37	109.10
26	BB	1756	G	N3-C4-C5	-5.22	125.99	128.60
26	BB	2043	C	N3-C2-O2	-5.22	118.24	121.90
26	BB	2157	G	N1-C2-N3	-5.22	120.77	123.90
26	BB	2373	G	C5-N7-C8	-5.22	101.69	104.30
26	BB	2845	U	C5'-C4'-O4'	5.22	115.37	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BJ	131	TYR	CA-CB-CG	5.22	123.33	113.40
1	AA	219	U	C3'-C2'-C1'	-5.22	97.32	101.50
1	AA	804	U	C5'-C4'-O4'	5.22	115.37	109.10
1	AA	1118	U	C1'-O4'-C4'	5.22	114.08	109.90
1	AA	1136	C	O4'-C1'-N1	5.22	112.38	108.20
1	AA	1309	G	O4'-C1'-N9	5.22	112.38	108.20
1	AA	1398	A	C5-C6-N6	5.22	127.88	123.70
1	AA	1403	C	C3'-C2'-C1'	5.22	105.68	101.50
1	AA	1453	G	C6-N1-C2	-5.22	121.97	125.10
1	AA	1492	A	C3'-C2'-C1'	5.22	105.68	101.50
2	AB	59	G	C2-N3-C4	5.22	114.51	111.90
4	AD	6	G	N1-C2-N2	5.22	120.90	116.20
7	AG	64	TYR	CB-CG-CD1	-5.22	117.87	121.00
25	BA	3	C	C4'-C3'-O3'	5.22	123.44	113.00
26	BB	198	C	C6-N1-C2	5.22	122.39	120.30
26	BB	217	A	O4'-C1'-N9	5.22	112.38	108.20
26	BB	532	A	N3-C4-N9	-5.22	123.22	127.40
26	BB	577	G	N3-C2-N2	-5.22	116.25	119.90
26	BB	964	C	C2-N3-C4	5.22	122.51	119.90
26	BB	1405	U	O5'-P-OP2	-5.22	101.00	105.70
26	BB	1471	G	P-O5'-C5'	5.22	129.26	120.90
26	BB	1641	A	C5-C6-N1	5.22	120.31	117.70
26	BB	1733	G	C8-N9-C1'	5.22	133.79	127.00
29	BE	77	ARG	NE-CZ-NH2	5.22	122.91	120.30
1	AA	68	G	C1'-O4'-C4'	5.22	114.08	109.90
1	AA	207	C	C4-C5-C6	5.22	120.01	117.40
1	AA	267	C	N3-C4-C5	5.22	123.99	121.90
1	AA	1103	C	C6-N1-C2	5.22	122.39	120.30
3	AC	48	C	C5-C6-N1	-5.22	118.39	121.00
26	BB	2112	G	N1-C6-O6	5.22	123.03	119.90
26	BB	2547	A	C5-C6-N6	5.22	127.88	123.70
26	BB	2635	A	C5-C6-N1	-5.22	115.09	117.70
45	BU	66	ILE	CA-CB-CG1	5.22	120.92	111.00
1	AA	490	C	C5-C4-N4	-5.22	116.55	120.20
1	AA	558	G	C5'-C4'-C3'	-5.22	107.65	116.00
1	AA	828	U	C4-C5-C6	5.22	122.83	119.70
1	AA	939	G	O5'-P-OP1	-5.22	101.00	105.70
1	AA	942	G	O5'-P-OP2	-5.22	101.00	105.70
1	AA	1026	G	N1-C6-O6	-5.22	116.77	119.90
1	AA	1223	C	O4'-C1'-C2'	-5.22	100.58	105.80
1	AA	1365	G	N1-C6-O6	-5.22	116.77	119.90
4	AD	13	C	O4'-C1'-N1	5.22	112.38	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	AO	82	ARG	NH1-CZ-NH2	-5.22	113.66	119.40
26	BB	137	U	C2-N3-C4	-5.22	123.87	127.00
26	BB	290	U	C5-C4-O4	-5.22	122.77	125.90
26	BB	460	A	O4'-C1'-N9	5.22	112.38	108.20
26	BB	497	A	C2-N3-C4	5.22	113.21	110.60
26	BB	633	A	C8-N9-C4	-5.22	103.71	105.80
26	BB	738	G	C4-C5-C6	5.22	121.93	118.80
26	BB	1140	C	C5-C4-N4	-5.22	116.55	120.20
26	BB	1146	C	N1-C2-N3	-5.22	115.55	119.20
26	BB	1501	G	N3-C4-C5	-5.22	125.99	128.60
26	BB	2569	G	N1-C6-O6	-5.22	116.77	119.90
26	BB	2809	A	N9-C4-C5	5.22	107.89	105.80
26	BB	2826	A	N9-C4-C5	5.22	107.89	105.80
1	AA	498	A	C5-C6-N6	-5.22	119.53	123.70
1	AA	723	U	N1-C2-N3	-5.22	111.77	114.90
1	AA	932	C	N1-C2-N3	-5.22	115.55	119.20
1	AA	1198	G	N9-C1'-C2'	-5.22	106.26	112.00
2	AB	59	G	P-O3'-C3'	5.22	125.96	119.70
25	BA	10	G	O4'-C1'-C2'	-5.22	100.58	105.80
25	BA	48	U	C5'-C4'-C3'	-5.22	107.65	116.00
26	BB	807	U	O4'-C1'-N1	5.22	112.38	108.20
26	BB	1476	U	C4-C5-C6	-5.22	116.57	119.70
26	BB	2015	A	C4-C5-N7	-5.22	108.09	110.70
41	BQ	99	TYR	CB-CG-CD2	5.22	124.13	121.00
53	B2	25	ARG	NE-CZ-NH1	-5.22	117.69	120.30
1	AA	584	G	N1-C6-O6	5.22	123.03	119.90
1	AA	878	A	C5-C6-N6	-5.22	119.53	123.70
1	AA	982	U	O4'-C4'-C3'	5.22	110.27	106.10
1	AA	1011	C	C2-N3-C4	5.22	122.51	119.90
1	AA	1143	G	N1-C2-N2	5.22	120.89	116.20
26	BB	985	C	C5'-C4'-O4'	5.22	115.36	109.10
26	BB	1010	A	N1-C2-N3	5.22	131.91	129.30
26	BB	1086	A	C5-N7-C8	5.22	106.51	103.90
26	BB	1374	G	N7-C8-N9	5.22	115.71	113.10
26	BB	1504	A	C4'-C3'-C2'	-5.22	97.38	102.60
26	BB	1816	C	P-O5'-C5'	5.22	129.25	120.90
26	BB	2266	A	N1-C6-N6	-5.22	115.47	118.60
26	BB	2438	U	C4'-C3'-C2'	-5.22	97.38	102.60
26	BB	2684	U	C5-C4-O4	5.22	129.03	125.90
26	BB	2774	C	C6-N1-C2	-5.22	118.21	120.30
34	BJ	51	MET	O-C-N	5.22	131.05	122.70
1	AA	23	C	O5'-P-OP2	-5.21	101.01	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	169	C	C1'-O4'-C4'	-5.21	105.73	109.90
1	AA	190	A	O4'-C1'-N9	5.21	112.37	108.20
1	AA	233	C	O4'-C4'-C3'	5.21	110.27	106.10
1	AA	458	U	N1-C2-O2	5.21	126.45	122.80
1	AA	498	A	N3-C4-N9	5.21	131.57	127.40
1	AA	507	C	P-O5'-C5'	5.21	129.24	120.90
1	AA	618	C	C5'-C4'-O4'	5.21	115.36	109.10
1	AA	631	C	O4'-C1'-N1	5.21	112.37	108.20
1	AA	656	G	O4'-C1'-N9	5.21	112.37	108.20
1	AA	1434	A	C1'-O4'-C4'	-5.21	105.73	109.90
1	AA	1524	C	N3-C2-O2	-5.21	118.25	121.90
25	BA	114	C	P-O3'-C3'	5.21	125.96	119.70
26	BB	686	U	C2-N1-C1'	5.21	123.96	117.70
26	BB	832	U	OP1-P-OP2	-5.21	111.78	119.60
26	BB	966	G	C2-N3-C4	5.21	114.51	111.90
26	BB	1239	G	O4'-C1'-N9	5.21	112.37	108.20
26	BB	1504	A	C5-C6-N6	5.21	127.87	123.70
26	BB	1921	G	N7-C8-N9	-5.21	110.49	113.10
26	BB	1989	G	N1-C2-N2	-5.21	111.51	116.20
26	BB	2085	U	O4'-C4'-C3'	-5.21	98.78	104.00
26	BB	2152	G	C5'-C4'-C3'	-5.21	107.66	116.00
26	BB	2548	U	O4'-C1'-C2'	5.21	112.29	107.60
37	BM	64	ARG	NE-CZ-NH2	-5.21	117.69	120.30
1	AA	179	A	C5-N7-C8	-5.21	101.29	103.90
1	AA	638	U	C3'-C2'-C1'	5.21	105.67	101.50
4	AD	49	C	C4-C5-C6	-5.21	114.79	117.40
26	BB	400	G	O4'-C1'-C2'	-5.21	100.59	105.80
26	BB	1133	A	P-O3'-C3'	5.21	125.95	119.70
26	BB	2220	U	C4-C5-C6	5.21	122.83	119.70
26	BB	2375	G	C4-N9-C1'	-5.21	119.72	126.50
26	BB	2443	C	C6-N1-C2	-5.21	118.22	120.30
26	BB	2747	G	N1-C2-N3	5.21	127.03	123.90
26	BB	2898	U	C6-N1-C2	-5.21	117.87	121.00
41	BQ	29	HIS	O-C-N	5.21	131.04	122.70
1	AA	34	C	N1-C2-O2	5.21	122.03	118.90
1	AA	242	G	N1-C6-O6	-5.21	116.77	119.90
1	AA	563	A	OP2-P-O3'	5.21	116.66	105.20
1	AA	593	U	C5-C6-N1	5.21	125.31	122.70
1	AA	674	G	N1-C2-N2	-5.21	111.51	116.20
1	AA	870	U	C5'-C4'-C3'	-5.21	107.66	116.00
1	AA	1228	C	N1-C2-O2	5.21	122.03	118.90
1	AA	1323	G	N1-C6-O6	-5.21	116.77	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1345	U	C5-C4-O4	-5.21	122.77	125.90
1	AA	1375	A	C5-N7-C8	-5.21	101.29	103.90
1	AA	1390	U	C5'-C4'-C3'	-5.21	107.66	116.00
1	AA	1430	A	N9-C4-C5	5.21	107.89	105.80
1	AA	1512	U	N1-C2-O2	5.21	126.45	122.80
1	AA	1530	G	C2-N3-C4	-5.21	109.29	111.90
2	AB	43	G	N3-C4-C5	-5.21	125.99	128.60
3	AC	30	U	C5-C6-N1	5.21	125.31	122.70
26	BB	377	G	P-O3'-C3'	5.21	125.95	119.70
26	BB	435	C	C5-C6-N1	5.21	123.61	121.00
26	BB	1002	G	C4'-C3'-O3'	5.21	123.42	113.00
26	BB	1025	G	C4-C5-C6	5.21	121.93	118.80
26	BB	1243	C	O4'-C1'-C2'	5.21	112.29	107.60
26	BB	1277	G	C4-C5-C6	5.21	121.93	118.80
26	BB	1385	A	C5-C6-N1	-5.21	115.09	117.70
26	BB	1497	U	C5-C6-N1	-5.21	120.09	122.70
26	BB	1749	A	N9-C1'-C2'	-5.21	106.27	112.00
26	BB	1822	C	O4'-C4'-C3'	5.21	110.27	106.10
26	BB	2104	C	C2-N3-C4	5.21	122.51	119.90
26	BB	2290	G	O4'-C1'-C2'	5.21	112.29	107.60
26	BB	2296	U	O4'-C1'-N1	5.21	112.37	108.20
26	BB	2419	U	N3-C4-O4	5.21	123.05	119.40
26	BB	2853	C	C4-C5-C6	5.21	120.01	117.40
35	BK	95	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	AA	123	U	N1-C2-N3	5.21	118.03	114.90
4	AD	22	A	C6-C5-N7	5.21	135.95	132.30
26	BB	550	C	OP2-P-O3'	5.21	116.66	105.20
26	BB	715	A	P-O3'-C3'	5.21	125.95	119.70
26	BB	1194	A	C5-N7-C8	5.21	106.50	103.90
26	BB	1322	A	C5-N7-C8	5.21	106.50	103.90
26	BB	1571	A	C5-N7-C8	-5.21	101.30	103.90
26	BB	2059	A	P-O3'-C3'	5.21	125.95	119.70
26	BB	2115	G	C6-C5-N7	-5.21	127.27	130.40
26	BB	2583	G	N1-C2-N3	-5.21	120.77	123.90
26	BB	2590	A	C4-C5-N7	-5.21	108.09	110.70
1	AA	162	A	C3'-C2'-C1'	-5.21	97.33	101.50
1	AA	171	A	N1-C6-N6	5.21	121.72	118.60
1	AA	578	C	C5'-C4'-O4'	5.21	115.35	109.10
1	AA	583	A	P-O3'-C3'	5.21	125.95	119.70
1	AA	985	C	C2-N3-C4	5.21	122.50	119.90
1	AA	1061	G	C4-C5-C6	5.21	121.92	118.80
1	AA	1062	U	C4'-C3'-C2'	-5.21	97.39	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1085	U	C5-C6-N1	5.21	125.30	122.70
1	AA	1475	G	C5-N7-C8	-5.21	101.70	104.30
25	BA	97	C	N3-C4-C5	-5.21	119.82	121.90
26	BB	200	U	C5'-C4'-C3'	-5.21	107.67	116.00
26	BB	285	G	C5-C6-N1	5.21	114.10	111.50
26	BB	486	C	C2-N3-C4	5.21	122.50	119.90
26	BB	504	A	C3'-C2'-C1'	-5.21	97.33	101.50
26	BB	532	A	N7-C8-N9	5.21	116.40	113.80
26	BB	683	U	N1-C2-O2	5.21	126.45	122.80
26	BB	1305	C	C3'-C2'-C1'	5.21	105.67	101.50
26	BB	1617	C	N1-C2-N3	-5.21	115.55	119.20
26	BB	1662	U	N1-C2-O2	-5.21	119.16	122.80
26	BB	1872	A	C5-C6-N6	5.21	127.87	123.70
26	BB	2216	G	N3-C4-C5	-5.21	126.00	128.60
26	BB	2358	A	C5'-C4'-C3'	-5.21	107.67	116.00
26	BB	2517	C	O3'-P-O5'	-5.21	94.11	104.00
26	BB	2781	A	C5-C6-N1	5.21	120.30	117.70
26	BB	2883	A	O4'-C1'-N9	5.21	112.37	108.20
26	BB	2892	G	N3-C4-C5	-5.21	126.00	128.60
29	BE	119	ALA	CB-CA-C	5.21	117.91	110.10
40	BP	45	ARG	NE-CZ-NH1	-5.21	117.70	120.30
41	BQ	30	ARG	CD-NE-CZ	5.21	130.89	123.60
1	AA	219	U	N1-C2-N3	5.21	118.02	114.90
1	AA	325	A	C6-N1-C2	5.21	121.72	118.60
1	AA	487	A	C4'-C3'-C2'	-5.21	97.39	102.60
1	AA	589	U	N1-C2-N3	5.21	118.02	114.90
1	AA	681	A	N9-C1'-C2'	-5.21	106.27	112.00
1	AA	725	G	C5-C6-N1	-5.21	108.90	111.50
1	AA	946	A	C1'-O4'-C4'	5.21	114.07	109.90
1	AA	1019	A	C5'-C4'-O4'	5.21	115.35	109.10
1	AA	1232	U	C5'-C4'-O4'	5.21	115.35	109.10
1	AA	1254	A	C6-N1-C2	5.21	121.72	118.60
1	AA	1474	U	C6-N1-C2	-5.21	117.88	121.00
26	BB	113	U	C5-C4-O4	-5.21	122.78	125.90
26	BB	149	A	C8-N9-C4	-5.21	103.72	105.80
26	BB	406	G	OP2-P-O3'	5.21	116.65	105.20
26	BB	1008	A	C4-C5-C6	-5.21	114.40	117.00
26	BB	1053	C	N3-C2-O2	-5.21	118.25	121.90
26	BB	1320	C	C6-N1-C2	-5.21	118.22	120.30
26	BB	1369	G	P-O3'-C3'	5.21	125.95	119.70
26	BB	1449	G	C2-N3-C4	5.21	114.50	111.90
26	BB	1502	A	C3'-C2'-C1'	5.21	105.67	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1633	G	N3-C2-N2	5.21	123.55	119.90
26	BB	1824	G	N7-C8-N9	5.21	115.70	113.10
26	BB	2201	G	C4-N9-C1'	-5.21	119.73	126.50
26	BB	2310	C	N1-C1'-C2'	5.21	120.77	114.00
26	BB	2426	A	C1'-O4'-C4'	-5.21	105.73	109.90
26	BB	2657	A	C4'-C3'-C2'	-5.21	97.39	102.60
26	BB	2770	G	P-O3'-C3'	5.21	125.95	119.70
31	BG	111	ARG	NE-CZ-NH2	5.21	122.90	120.30
32	BH	51	PHE	CB-CG-CD2	5.21	124.44	120.80
1	AA	315	A	C5-C6-N1	5.21	120.30	117.70
1	AA	627	G	N1-C6-O6	-5.21	116.78	119.90
1	AA	640	A	C5-C6-N6	-5.21	119.54	123.70
1	AA	1511	G	C2-N3-C4	5.21	114.50	111.90
15	AO	82	ARG	NE-CZ-NH1	5.21	122.90	120.30
26	BB	1335	C	N3-C4-N4	-5.21	114.36	118.00
26	BB	2242	G	C6-C5-N7	-5.21	127.28	130.40
26	BB	2527	C	N1-C2-O2	5.21	122.02	118.90
1	AA	753	A	C5'-C4'-O4'	5.20	115.34	109.10
1	AA	1248	A	C1'-O4'-C4'	5.20	114.06	109.90
1	AA	1319	A	C5'-C4'-C3'	-5.20	107.67	116.00
1	AA	1520	C	C3'-C2'-C1'	-5.20	97.34	101.50
2	AB	23	A	C3'-C2'-C1'	5.20	105.66	101.50
25	BA	93	C	C5-C6-N1	5.20	123.60	121.00
26	BB	306	U	O4'-C1'-N1	5.20	112.36	108.20
26	BB	465	G	C8-N9-C4	-5.20	104.32	106.40
26	BB	501	A	C5-N7-C8	-5.20	101.30	103.90
26	BB	807	U	N3-C4-C5	5.20	117.72	114.60
26	BB	1257	C	N3-C4-C5	-5.20	119.82	121.90
26	BB	1302	A	N1-C6-N6	-5.20	115.48	118.60
26	BB	1498	C	N3-C2-O2	-5.20	118.26	121.90
26	BB	1597	A	C6-C5-N7	-5.20	128.66	132.30
26	BB	1611	C	O4'-C1'-N1	5.20	112.36	108.20
26	BB	1721	G	C6-C5-N7	-5.20	127.28	130.40
26	BB	1823	G	O4'-C4'-C3'	5.20	110.26	106.10
26	BB	2280	G	N9-C4-C5	5.20	107.48	105.40
26	BB	2598	A	C4'-C3'-C2'	-5.20	97.40	102.60
26	BB	2662	A	N9-C4-C5	-5.20	103.72	105.80
26	BB	2727	A	C1'-O4'-C4'	5.20	114.06	109.90
26	BB	2851	A	C6-C5-N7	-5.20	128.66	132.30
55	B4	31	GLU	OE1-CD-OE2	5.20	129.54	123.30
1	AA	712	A	O4'-C1'-N9	5.20	112.36	108.20
15	AO	98	ARG	NE-CZ-NH1	-5.20	117.70	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	812	C	C1'-O4'-C4'	-5.20	105.74	109.90
26	BB	1651	G	O5'-C5'-C4'	-5.20	101.82	111.70
26	BB	2157	G	C6-C5-N7	-5.20	127.28	130.40
26	BB	2305	U	N3-C4-C5	-5.20	111.48	114.60
26	BB	2319	G	N1-C2-N2	-5.20	111.52	116.20
26	BB	2602	A	O5'-P-OP2	-5.20	101.02	105.70
1	AA	34	C	C2-N3-C4	5.20	122.50	119.90
1	AA	41	G	C5-C6-O6	5.20	131.72	128.60
1	AA	237	G	C8-N9-C1'	5.20	133.76	127.00
1	AA	421	U	P-O3'-C3'	5.20	125.94	119.70
1	AA	600	A	N7-C8-N9	5.20	116.40	113.80
1	AA	701	U	C2-N3-C4	-5.20	123.88	127.00
1	AA	751	U	O3'-P-O5'	-5.20	94.12	104.00
1	AA	757	U	C3'-C2'-C1'	5.20	105.66	101.50
1	AA	871	U	C2-N3-C4	-5.20	123.88	127.00
1	AA	1073	U	C5-C4-O4	5.20	129.02	125.90
1	AA	1084	G	C2-N3-C4	5.20	114.50	111.90
1	AA	1121	U	N1-C2-N3	5.20	118.02	114.90
1	AA	1238	A	O4'-C1'-N9	5.20	112.36	108.20
1	AA	1455	G	C6-C5-N7	5.20	133.52	130.40
1	AA	1482	G	N3-C4-N9	5.20	129.12	126.00
2	AB	61	C	O4'-C1'-N1	5.20	112.36	108.20
26	BB	1295	C	N3-C4-C5	-5.20	119.82	121.90
26	BB	1328	A	C4'-C3'-C2'	-5.20	97.40	102.60
26	BB	1436	G	C8-N9-C4	5.20	108.48	106.40
26	BB	1710	G	N3-C4-C5	-5.20	126.00	128.60
26	BB	1984	G	N3-C2-N2	5.20	123.54	119.90
26	BB	2123	G	N9-C4-C5	5.20	107.48	105.40
26	BB	2311	A	N1-C2-N3	-5.20	126.70	129.30
26	BB	2444	G	N3-C4-N9	5.20	129.12	126.00
26	BB	2453	A	C6-N1-C2	-5.20	115.48	118.60
26	BB	2495	G	O4'-C1'-N9	5.20	112.36	108.20
26	BB	2561	U	O4'-C4'-C3'	-5.20	98.80	104.00
26	BB	2701	U	N3-C4-O4	5.20	123.04	119.40
26	BB	2755	C	C2-N3-C4	5.20	122.50	119.90
1	AA	535	A	C6-N1-C2	5.20	121.72	118.60
1	AA	680	C	C6-N1-C2	-5.20	118.22	120.30
1	AA	1047	G	C5-C6-O6	-5.20	125.48	128.60
13	AM	77	VAL	CA-CB-CG1	5.20	118.70	110.90
25	BA	15	A	C2-N3-C4	-5.20	108.00	110.60
25	BA	57	A	P-O3'-C3'	5.20	125.94	119.70
25	BA	59	A	OP1-P-OP2	-5.20	111.80	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	111	U	O5'-P-OP1	5.20	116.94	110.70
26	BB	181	A	N9-C4-C5	-5.20	103.72	105.80
26	BB	543	G	C4-C5-C6	5.20	121.92	118.80
26	BB	804	A	N7-C8-N9	-5.20	111.20	113.80
26	BB	876	C	C4'-C3'-C2'	-5.20	97.40	102.60
26	BB	1187	G	C1'-O4'-C4'	-5.20	105.74	109.90
26	BB	1294	U	O4'-C4'-C3'	-5.20	98.80	104.00
26	BB	1347	A	C8-N9-C1'	5.20	137.06	127.70
26	BB	1686	C	N1-C2-O2	-5.20	115.78	118.90
26	BB	1974	C	N1-C2-N3	-5.20	115.56	119.20
26	BB	2428	G	N3-C2-N2	5.20	123.54	119.90
37	BM	110	GLU	OE1-CD-OE2	5.20	129.54	123.30
1	AA	251	G	N7-C8-N9	5.20	115.70	113.10
26	BB	669	G	O4'-C4'-C3'	-5.20	98.80	104.00
26	BB	926	G	C5'-C4'-O4'	5.20	115.34	109.10
26	BB	1351	C	N3-C2-O2	-5.20	118.26	121.90
26	BB	2207	C	C5-C4-N4	5.20	123.84	120.20
26	BB	2282	G	C6-C5-N7	-5.20	127.28	130.40
33	BI	28	ASN	CA-C-O	-5.20	109.19	120.10
1	AA	176	C	N3-C4-N4	5.20	121.64	118.00
1	AA	226	G	N3-C2-N2	5.20	123.54	119.90
1	AA	305	G	P-O5'-C5'	5.20	129.21	120.90
1	AA	457	G	O3'-P-O5'	5.20	113.87	104.00
1	AA	567	G	N1-C6-O6	-5.20	116.78	119.90
1	AA	1009	U	C5-C6-N1	-5.20	120.10	122.70
1	AA	1284	C	C2-N3-C4	5.20	122.50	119.90
26	BB	122	G	P-O5'-C5'	5.20	129.21	120.90
26	BB	322	A	C6-C5-N7	5.20	135.94	132.30
26	BB	505	A	C2-N3-C4	5.20	113.20	110.60
26	BB	655	A	C8-N9-C4	-5.20	103.72	105.80
26	BB	762	U	N3-C4-C5	-5.20	111.48	114.60
26	BB	1091	G	C8-N9-C1'	5.20	133.75	127.00
26	BB	1352	U	O4'-C1'-C2'	5.20	112.28	107.60
26	BB	1573	G	C5-C6-O6	-5.20	125.48	128.60
26	BB	1807	G	C3'-C2'-C1'	-5.20	97.34	101.50
26	BB	1873	G	C6-C5-N7	-5.20	127.28	130.40
26	BB	2201	G	C5-C6-N1	5.20	114.10	111.50
26	BB	2267	A	C4-C5-N7	-5.20	108.10	110.70
26	BB	2571	U	C2-N3-C4	-5.20	123.88	127.00
26	BB	2632	A	C5-C6-N1	5.20	120.30	117.70
26	BB	2847	U	C6-N1-C1'	5.20	128.47	121.20
41	BQ	13	ARG	NE-CZ-NH1	5.20	122.90	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	BU	110	ARG	N-CA-CB	5.20	119.95	110.60
1	AA	245	U	C3'-C2'-C1'	5.19	105.66	101.50
1	AA	303	A	N1-C6-N6	5.19	121.72	118.60
1	AA	1304	G	C4-C5-C6	5.19	121.92	118.80
3	AC	58	C	C2-N3-C4	-5.19	117.30	119.90
26	BB	539	G	C5-C6-O6	-5.19	125.48	128.60
26	BB	970	U	O4'-C1'-N1	5.19	112.36	108.20
26	BB	1653	G	N3-C4-N9	5.19	129.12	126.00
26	BB	2386	A	N1-C2-N3	-5.19	126.70	129.30
26	BB	2587	A	C2-N3-C4	5.19	113.20	110.60
26	BB	2714	G	N3-C2-N2	5.19	123.54	119.90
1	AA	529	G	N3-C4-N9	5.19	129.12	126.00
1	AA	720	C	N3-C4-C5	-5.19	119.82	121.90
1	AA	1175	G	C1'-O4'-C4'	-5.19	105.75	109.90
1	AA	1288	A	C1'-O4'-C4'	5.19	114.05	109.90
1	AA	1387	G	N7-C8-N9	5.19	115.70	113.10
1	AA	1474	U	C5'-C4'-O4'	5.19	115.33	109.10
1	AA	1491	G	C4'-C3'-O3'	5.19	123.38	113.00
3	AC	32	U	O4'-C1'-C2'	-5.19	100.61	105.80
26	BB	141	G	C5'-C4'-C3'	-5.19	107.69	116.00
26	BB	467	G	C5-N7-C8	5.19	106.90	104.30
26	BB	963	U	C1'-O4'-C4'	5.19	114.05	109.90
26	BB	1707	G	O4'-C1'-C2'	-5.19	100.61	105.80
26	BB	1719	G	C4'-C3'-C2'	-5.19	97.41	102.60
26	BB	2291	U	C2'-C3'-O3'	5.19	122.01	113.70
32	BH	19	ASN	O-C-N	-5.19	114.37	123.20
1	AA	60	A	C3'-C2'-C1'	-5.19	97.35	101.50
1	AA	561	U	C5'-C4'-C3'	-5.19	107.70	116.00
1	AA	685	G	O4'-C1'-C2'	-5.19	100.61	105.80
1	AA	781	A	O4'-C4'-C3'	-5.19	98.81	104.00
1	AA	813	U	O5'-P-OP1	-5.19	101.03	105.70
1	AA	880	C	N3-C4-C5	-5.19	119.82	121.90
1	AA	1444	U	N3-C4-C5	-5.19	111.48	114.60
25	BA	92	C	N1-C1'-C2'	-5.19	106.29	112.00
26	BB	441	U	N1-C2-N3	5.19	118.01	114.90
26	BB	546	U	C1'-O4'-C4'	5.19	114.05	109.90
26	BB	1162	G	O4'-C4'-C3'	-5.19	98.81	104.00
26	BB	1419	A	N1-C2-N3	-5.19	126.70	129.30
26	BB	2081	U	N1-C1'-C2'	-5.19	106.29	112.00
26	BB	2138	G	O4'-C1'-N9	5.19	112.35	108.20
26	BB	2508	G	N3-C4-N9	-5.19	122.89	126.00
26	BB	2810	A	C8-N9-C4	-5.19	103.72	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	50	A	C5-N7-C8	-5.19	101.31	103.90
1	AA	405	U	O4'-C1'-N1	5.19	112.35	108.20
1	AA	1062	U	C6-N1-C2	-5.19	117.89	121.00
26	BB	90	U	C5'-C4'-C3'	-5.19	107.70	116.00
26	BB	570	G	N3-C4-N9	5.19	129.11	126.00
26	BB	1460	U	C3'-C2'-C1'	-5.19	97.35	101.50
26	BB	1926	U	C1'-O4'-C4'	5.19	114.05	109.90
26	BB	2161	C	O5'-P-OP1	5.19	116.93	110.70
26	BB	2778	A	C4-C5-N7	-5.19	108.11	110.70
29	BE	80	TRP	CG-CD1-NE1	5.19	115.29	110.10
34	BJ	123	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	AA	7	A	C4-C5-N7	5.19	113.29	110.70
1	AA	512	U	N3-C2-O2	-5.19	118.57	122.20
1	AA	796	C	C3'-C2'-C1'	5.19	105.65	101.50
1	AA	803	G	C5-N7-C8	-5.19	101.71	104.30
1	AA	1379	G	C5-C6-N1	-5.19	108.91	111.50
1	AA	1427	C	C5-C4-N4	-5.19	116.57	120.20
1	AA	1542	A	N9-C1'-C2'	5.19	120.74	114.00
26	BB	130	C	C4'-C3'-C2'	-5.19	97.41	102.60
26	BB	213	A	C5-C6-N1	5.19	120.29	117.70
26	BB	575	A	C6-N1-C2	5.19	121.71	118.60
26	BB	1227	G	C2-N3-C4	5.19	114.49	111.90
26	BB	1455	G	P-O3'-C3'	5.19	125.93	119.70
26	BB	1659	G	N3-C2-N2	-5.19	116.27	119.90
26	BB	1900	A	C3'-C2'-C1'	-5.19	97.35	101.50
26	BB	2212	A	C8-N9-C4	5.19	107.88	105.80
1	AA	156	C	P-O3'-C3'	5.19	125.92	119.70
1	AA	581	G	O4'-C1'-N9	5.19	112.35	108.20
1	AA	880	C	C4'-C3'-C2'	-5.19	97.41	102.60
26	BB	883	G	C6-C5-N7	-5.19	127.29	130.40
26	BB	1125	G	N3-C2-N2	5.19	123.53	119.90
26	BB	1879	C	C6-N1-C1'	5.19	127.02	120.80
26	BB	2205	A	C2-N3-C4	-5.19	108.01	110.60
26	BB	2419	U	C4-C5-C6	5.19	122.81	119.70
26	BB	2863	C	N1-C2-N3	-5.19	115.57	119.20
30	BF	45	ALA	CB-CA-C	5.19	117.88	110.10
1	AA	580	C	O5'-P-OP2	-5.18	101.03	105.70
1	AA	652	U	C5-C4-O4	5.18	129.01	125.90
1	AA	1385	G	C5-N7-C8	-5.18	101.71	104.30
2	AB	48	U	C5'-C4'-C3'	-5.18	107.71	116.00
3	AC	37	G	N7-C8-N9	5.18	115.69	113.10
23	AW	9	ARG	NH1-CZ-NH2	-5.18	113.70	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	95	U	O5'-P-OP2	-5.18	101.03	105.70
25	BA	98	G	C4-C5-C6	5.18	121.91	118.80
26	BB	47	C	N1-C1'-C2'	-5.18	106.30	112.00
26	BB	61	C	C3'-C2'-C1'	-5.18	97.35	101.50
26	BB	334	C	N3-C4-C5	-5.18	119.83	121.90
26	BB	407	G	C6-C5-N7	5.18	133.51	130.40
26	BB	848	C	N3-C4-C5	-5.18	119.83	121.90
26	BB	853	C	C4'-C3'-C2'	-5.18	97.42	102.60
26	BB	1129	A	N9-C4-C5	5.18	107.87	105.80
26	BB	1806	C	C4-C5-C6	-5.18	114.81	117.40
26	BB	1905	C	C2-N3-C4	5.18	122.49	119.90
26	BB	2806	C	C5-C4-N4	5.18	123.83	120.20
27	BC	194	VAL	CA-CB-CG2	5.18	118.68	110.90
28	BD	125	PRO	N-CA-CB	5.18	109.52	103.30
1	AA	216	U	C6-N1-C2	-5.18	117.89	121.00
1	AA	291	U	C5-C6-N1	-5.18	120.11	122.70
1	AA	469	C	C2-N1-C1'	5.18	124.50	118.80
1	AA	928	G	C5-N7-C8	-5.18	101.71	104.30
1	AA	1008	U	N1-C1'-C2'	-5.18	106.30	112.00
1	AA	1226	C	C1'-O4'-C4'	-5.18	105.75	109.90
1	AA	1321	U	C5'-C4'-O4'	-5.18	102.88	109.10
1	AA	1489	G	C6-C5-N7	5.18	133.51	130.40
25	BA	18	G	C2-N3-C4	5.18	114.49	111.90
26	BB	60	G	C5'-C4'-O4'	5.18	115.32	109.10
26	BB	286	U	C1'-O4'-C4'	5.18	114.05	109.90
26	BB	378	C	C3'-C2'-C1'	-5.18	97.35	101.50
26	BB	411	G	C3'-C2'-C1'	5.18	105.65	101.50
26	BB	428	A	O4'-C1'-N9	5.18	112.34	108.20
26	BB	627	A	C4-C5-C6	-5.18	114.41	117.00
26	BB	954	G	C4-C5-N7	5.18	112.87	110.80
26	BB	1107	G	C5-N7-C8	5.18	106.89	104.30
26	BB	1620	G	C5'-C4'-C3'	-5.18	107.71	116.00
26	BB	1836	C	C5'-C4'-O4'	5.18	115.32	109.10
26	BB	2469	A	C1'-O4'-C4'	-5.18	105.75	109.90
26	BB	2480	C	C4'-C3'-C2'	-5.18	97.42	102.60
39	BO	55	ARG	CD-NE-CZ	5.18	130.86	123.60
53	B2	22	MET	CG-SD-CE	-5.18	91.91	100.20
1	AA	794	A	N9-C1'-C2'	5.18	120.73	114.00
1	AA	885	G	N3-C4-C5	-5.18	126.01	128.60
1	AA	1155	A	C5-C6-N6	-5.18	119.56	123.70
3	AC	53	G	O4'-C1'-N9	5.18	112.34	108.20
26	BB	883	G	O4'-C4'-C3'	5.18	110.25	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1030	C	C5'-C4'-O4'	5.18	115.32	109.10
26	BB	1646	C	N1-C2-O2	5.18	122.01	118.90
26	BB	1702	G	N3-C4-C5	-5.18	126.01	128.60
36	BL	13	ARG	NE-CZ-NH1	-5.18	117.71	120.30
1	AA	173	U	N1-C2-N3	5.18	118.01	114.90
1	AA	426	U	O4'-C4'-C3'	5.18	110.24	106.10
1	AA	567	G	C5-N7-C8	-5.18	101.71	104.30
1	AA	620	C	C2-N3-C4	-5.18	117.31	119.90
1	AA	867	G	C5'-C4'-O4'	5.18	115.31	109.10
1	AA	1069	C	N1-C2-N3	5.18	122.83	119.20
1	AA	1198	G	N9-C4-C5	5.18	107.47	105.40
26	BB	332	A	O4'-C1'-C2'	-5.18	100.62	105.80
26	BB	366	C	N1-C2-N3	-5.18	115.58	119.20
26	BB	880	G	O4'-C1'-N9	-5.18	104.06	108.20
26	BB	901	C	C5-C4-N4	5.18	123.83	120.20
26	BB	1384	A	C5-N7-C8	-5.18	101.31	103.90
26	BB	1390	U	C5-C4-O4	5.18	129.01	125.90
26	BB	1524	G	N1-C2-N3	-5.18	120.79	123.90
26	BB	1665	A	C5-C6-N6	-5.18	119.56	123.70
26	BB	2111	U	C5'-C4'-O4'	5.18	115.31	109.10
26	BB	2322	A	N1-C2-N3	-5.18	126.71	129.30
26	BB	2336	A	C5-C6-N1	5.18	120.29	117.70
26	BB	2428	G	O5'-C5'-C4'	-5.18	101.86	111.70
26	BB	2583	G	O5'-P-OP2	-5.18	101.04	105.70
26	BB	2627	G	C4-N9-C1'	-5.18	119.77	126.50
26	BB	2637	U	O3'-P-O5'	5.18	113.84	104.00
26	BB	2754	U	C1'-O4'-C4'	5.18	114.04	109.90
1	AA	786	G	C6-N1-C2	-5.18	121.99	125.10
1	AA	1517	G	C5-N7-C8	-5.18	101.71	104.30
7	AG	190	LEU	CB-CG-CD1	5.18	119.80	111.00
26	BB	1114	C	N1-C2-N3	5.18	122.83	119.20
26	BB	2046	G	C3'-C2'-C1'	-5.18	97.36	101.50
26	BB	2115	G	N1-C2-N3	5.18	127.01	123.90
31	BG	87	LYS	CB-CA-C	5.18	120.76	110.40
39	BO	68	PHE	CD1-CE1-CZ	5.18	126.31	120.10
1	AA	113	G	N7-C8-N9	5.18	115.69	113.10
1	AA	505	G	C5'-C4'-C3'	-5.18	107.72	116.00
1	AA	593	U	C5'-C4'-O4'	-5.18	102.89	109.10
1	AA	942	G	C5-C6-N1	5.18	114.09	111.50
1	AA	1145	A	O4'-C1'-N9	-5.18	104.06	108.20
1	AA	1339	A	C1'-O4'-C4'	5.18	114.04	109.90
1	AA	1453	G	C1'-O4'-C4'	-5.18	105.76	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1470	U	C4'-C3'-C2'	-5.18	97.42	102.60
1	AA	1483	A	C3'-C2'-C1'	5.18	105.64	101.50
13	AM	13	PHE	CB-CG-CD2	-5.18	117.18	120.80
26	BB	362	A	C8-N9-C4	-5.18	103.73	105.80
26	BB	487	C	C4-C5-C6	-5.18	114.81	117.40
26	BB	515	A	N7-C8-N9	5.18	116.39	113.80
26	BB	688	U	N3-C4-O4	-5.18	115.78	119.40
26	BB	841	G	O4'-C1'-N9	5.18	112.34	108.20
26	BB	1763	G	C4-C5-C6	5.18	121.91	118.80
26	BB	1786	A	N3-C4-N9	-5.18	123.26	127.40
26	BB	2182	U	C3'-C2'-C1'	5.18	105.64	101.50
26	BB	2346	A	O4'-C4'-C3'	5.18	110.24	106.10
1	AA	1089	G	N3-C4-N9	-5.17	122.90	126.00
1	AA	1294	G	C5-C6-N1	5.17	114.09	111.50
2	AB	25	C	C2'-C3'-O3'	5.17	121.98	113.70
7	AG	141	VAL	CB-CA-C	-5.17	101.57	111.40
24	AX	16	ARG	N-CA-CB	-5.17	101.28	110.60
26	BB	85	G	N1-C2-N3	5.17	127.00	123.90
26	BB	480	A	C5'-C4'-O4'	5.17	115.31	109.10
26	BB	689	A	C5-C6-N6	-5.17	119.56	123.70
26	BB	826	U	O3'-P-O5'	-5.17	94.17	104.00
26	BB	1259	G	C4-C5-N7	-5.17	108.73	110.80
26	BB	1336	A	C6-C5-N7	-5.17	128.68	132.30
26	BB	2062	A	C3'-C2'-C1'	-5.17	97.36	101.50
26	BB	2627	G	C4-C5-C6	5.17	121.90	118.80
26	BB	2782	G	O5'-P-OP1	-5.17	101.04	105.70
32	BH	31	GLU	O-C-N	-5.17	114.42	122.70
1	AA	66	A	O4'-C1'-N9	5.17	112.34	108.20
4	AD	10	G	N3-C4-N9	5.17	129.10	126.00
26	BB	1568	G	C5'-C4'-C3'	-5.17	107.72	116.00
26	BB	1829	A	P-O3'-C3'	5.17	125.91	119.70
26	BB	2015	A	N1-C6-N6	-5.17	115.50	118.60
26	BB	2279	G	C4-C5-N7	-5.17	108.73	110.80
26	BB	2372	U	O4'-C1'-C2'	-5.17	100.63	105.80
1	AA	68	G	O4'-C1'-N9	5.17	112.34	108.20
1	AA	396	C	P-O5'-C5'	5.17	129.17	120.90
1	AA	1128	C	C6-N1-C2	-5.17	118.23	120.30
1	AA	1500	A	O4'-C1'-N9	5.17	112.34	108.20
5	AE	73	ARG	NE-CZ-NH1	5.17	122.89	120.30
6	AF	137	VAL	CA-CB-CG1	5.17	118.66	110.90
17	AQ	41	TRP	CB-CG-CD2	5.17	133.32	126.60
25	BA	67	G	N9-C4-C5	5.17	107.47	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	142	A	N1-C2-N3	-5.17	126.72	129.30
26	BB	428	A	C4-C5-N7	-5.17	108.11	110.70
26	BB	547	A	C5'-C4'-O4'	5.17	115.31	109.10
26	BB	675	A	P-O3'-C3'	5.17	125.91	119.70
26	BB	916	G	C4-C5-C6	5.17	121.90	118.80
26	BB	994	C	C4'-C3'-C2'	-5.17	97.43	102.60
26	BB	1027	A	N1-C6-N6	5.17	121.70	118.60
26	BB	1122	G	C6-C5-N7	5.17	133.50	130.40
26	BB	1217	U	C4-C5-C6	5.17	122.80	119.70
26	BB	1657	U	C4'-C3'-C2'	-5.17	97.43	102.60
26	BB	1812	U	N3-C2-O2	5.17	125.82	122.20
26	BB	2207	C	N1-C2-O2	5.17	122.00	118.90
26	BB	2586	U	C3'-C2'-C1'	5.17	105.64	101.50
26	BB	2884	U	O5'-C5'-C4'	5.17	121.53	111.70
48	BX	93	ARG	NH1-CZ-NH2	-5.17	113.71	119.40
1	AA	31	G	C5'-C4'-C3'	-5.17	107.73	116.00
1	AA	45	G	N3-C4-N9	-5.17	122.90	126.00
1	AA	486	U	C2-N3-C4	-5.17	123.90	127.00
1	AA	624	C	C4'-C3'-C2'	-5.17	97.43	102.60
25	BA	42	C	O4'-C1'-N1	5.17	112.34	108.20
26	BB	9	G	C8-N9-C4	-5.17	104.33	106.40
26	BB	177	G	N1-C2-N3	-5.17	120.80	123.90
26	BB	361	G	N7-C8-N9	5.17	115.69	113.10
26	BB	660	C	O4'-C1'-N1	5.17	112.34	108.20
26	BB	2000	C	C5-C4-N4	-5.17	116.58	120.20
1	AA	750	C	C4'-C3'-C2'	-5.17	97.43	102.60
6	AF	10	ARG	CD-NE-CZ	5.17	130.84	123.60
13	AM	27	GLU	CB-CA-C	5.17	120.74	110.40
26	BB	16	C	C5-C6-N1	-5.17	118.42	121.00
26	BB	357	C	O3'-P-O5'	-5.17	94.18	104.00
26	BB	656	G	C4-C5-C6	5.17	121.90	118.80
26	BB	1084	A	C5-C6-N6	-5.17	119.56	123.70
26	BB	1138	G	C2-N3-C4	5.17	114.48	111.90
26	BB	1160	G	N3-C2-N2	-5.17	116.28	119.90
26	BB	1509	A	C5-C6-N1	-5.17	115.12	117.70
26	BB	1597	A	C5'-C4'-C3'	-5.17	107.73	116.00
26	BB	1814	G	C6-C5-N7	5.17	133.50	130.40
26	BB	1875	G	C4-C5-C6	5.17	121.90	118.80
26	BB	2352	A	C6-C5-N7	-5.17	128.68	132.30
26	BB	2529	G	C5-C6-O6	-5.17	125.50	128.60
26	BB	2764	A	C5-C6-N1	5.17	120.28	117.70
26	BB	2850	A	C5-C6-N6	-5.17	119.57	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	BC	162	ARG	NE-CZ-NH1	-5.17	117.72	120.30
1	AA	165	G	C3'-C2'-C1'	5.17	105.63	101.50
1	AA	745	G	C4-C5-N7	-5.17	108.73	110.80
1	AA	1232	U	C2-N3-C4	-5.17	123.90	127.00
6	AF	33	ASP	CB-CG-OD1	5.17	122.95	118.30
16	AP	14	ALA	CB-CA-C	5.17	117.85	110.10
26	BB	922	C	O4'-C1'-C2'	-5.17	100.63	105.80
26	BB	1448	G	N3-C2-N2	-5.17	116.28	119.90
26	BB	1564	C	N1-C2-O2	5.17	122.00	118.90
26	BB	1824	G	N9-C1'-C2'	-5.17	106.32	112.00
26	BB	2348	U	O4'-C4'-C3'	-5.17	98.83	104.00
43	BS	75	TYR	CB-CG-CD2	-5.17	117.90	121.00
1	AA	745	G	C4-C5-C6	5.17	121.90	118.80
1	AA	842	U	O4'-C1'-N1	5.17	112.33	108.20
1	AA	862	C	O4'-C4'-C3'	-5.17	98.83	104.00
1	AA	886	G	C6-C5-N7	-5.17	127.30	130.40
1	AA	1127	G	N7-C8-N9	-5.17	110.52	113.10
1	AA	1494	G	C6-N1-C2	-5.17	122.00	125.10
28	BD	100	ARG	NH1-CZ-NH2	5.17	125.08	119.40
1	AA	38	G	C3'-C2'-C1'	-5.16	97.37	101.50
1	AA	245	U	C2-N3-C4	-5.16	123.90	127.00
1	AA	642	A	C4-C5-N7	5.16	113.28	110.70
1	AA	1488	G	P-O3'-C3'	5.16	125.89	119.70
1	AA	1504	G	C6-N1-C2	-5.16	122.00	125.10
26	BB	167	A	N1-C2-N3	-5.16	126.72	129.30
26	BB	1268	A	N9-C4-C5	-5.16	103.73	105.80
26	BB	1495	A	O4'-C1'-N9	5.16	112.33	108.20
26	BB	1544	A	O5'-C5'-C4'	5.16	121.51	111.70
26	BB	1909	C	C5'-C4'-O4'	5.16	115.30	109.10
26	BB	2024	G	C4-C5-C6	5.16	121.90	118.80
26	BB	2049	G	N9-C1'-C2'	-5.16	106.32	112.00
26	BB	2062	A	C6-C5-N7	5.16	135.91	132.30
26	BB	2096	C	N1-C1'-C2'	-5.16	106.32	112.00
26	BB	2112	G	C6-N1-C2	5.16	128.20	125.10
26	BB	2772	C	C4-C5-C6	5.16	119.98	117.40
29	BE	81	GLU	CB-CA-C	5.16	120.73	110.40
47	BW	95	PHE	CB-CG-CD2	5.16	124.41	120.80
1	AA	81	A	N9-C4-C5	5.16	107.86	105.80
1	AA	191	G	C4-C5-N7	5.16	112.86	110.80
1	AA	203	G	C1'-O4'-C4'	-5.16	105.77	109.90
1	AA	358	U	C5'-C4'-C3'	-5.16	107.74	116.00
1	AA	1000	A	O4'-C1'-C2'	5.16	112.25	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1003	G	C5-C6-O6	-5.16	125.50	128.60
1	AA	1102	A	O4'-C1'-C2'	-5.16	100.64	105.80
25	BA	13	G	N9-C4-C5	5.16	107.47	105.40
25	BA	50	A	C8-N9-C4	-5.16	103.73	105.80
26	BB	1975	G	C6-N1-C2	-5.16	122.00	125.10
26	BB	2083	G	C1'-O4'-C4'	5.16	114.03	109.90
26	BB	2404	U	N1-C2-N3	5.16	118.00	114.90
26	BB	2660	A	O4'-C1'-N9	5.16	112.33	108.20
30	BF	33	VAL	CA-CB-CG2	-5.16	103.16	110.90
30	BF	60	TRP	CD1-CG-CD2	-5.16	102.17	106.30
37	BM	64	ARG	NE-CZ-NH1	5.16	122.88	120.30
1	AA	320	A	O3'-P-O5'	5.16	113.80	104.00
1	AA	359	G	C4'-C3'-C2'	-5.16	97.44	102.60
1	AA	818	G	N7-C8-N9	5.16	115.68	113.10
1	AA	1466	C	C5-C6-N1	-5.16	118.42	121.00
2	AB	43	G	C8-N9-C4	-5.16	104.34	106.40
25	BA	112	G	N1-C2-N2	-5.16	111.56	116.20
26	BB	10	A	C5-C6-N1	5.16	120.28	117.70
26	BB	518	G	N7-C8-N9	5.16	115.68	113.10
26	BB	1233	C	C5'-C4'-O4'	5.16	115.29	109.10
26	BB	1836	C	C6-N1-C2	-5.16	118.24	120.30
26	BB	1913	A	C2-N3-C4	5.16	113.18	110.60
26	BB	1945	G	O4'-C1'-N9	5.16	112.33	108.20
26	BB	2091	C	N1-C2-O2	5.16	122.00	118.90
26	BB	2191	A	C5-C6-N1	5.16	120.28	117.70
26	BB	2297	A	P-O3'-C3'	5.16	125.89	119.70
26	BB	2461	A	N1-C2-N3	5.16	131.88	129.30
26	BB	2567	G	C6-N1-C2	-5.16	122.00	125.10
26	BB	2802	G	C3'-C2'-C1'	-5.16	97.37	101.50
1	AA	99	C	C4'-C3'-C2'	-5.16	97.44	102.60
1	AA	154	U	C6-N1-C2	-5.16	117.91	121.00
1	AA	217	C	C6-N1-C1'	5.16	126.99	120.80
1	AA	388	G	C5-C6-N1	5.16	114.08	111.50
1	AA	499	A	N9-C4-C5	5.16	107.86	105.80
1	AA	698	G	O5'-C5'-C4'	-5.16	101.90	111.70
1	AA	706	A	C2'-C3'-O3'	5.16	121.95	113.70
1	AA	1131	G	C4-C5-C6	5.16	121.89	118.80
1	AA	1187	G	N7-C8-N9	-5.16	110.52	113.10
1	AA	1424	U	O5'-C5'-C4'	-5.16	101.90	111.70
1	AA	1459	G	N9-C1'-C2'	-5.16	106.33	112.00
2	AB	10	G	P-O5'-C5'	5.16	129.15	120.90
3	AC	40	G	O4'-C1'-N9	-5.16	104.07	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	AJ	102	TRP	CD1-NE1-CE2	5.16	113.64	109.00
26	BB	323	C	C5'-C4'-C3'	-5.16	107.75	116.00
26	BB	871	U	C4'-C3'-C2'	-5.16	97.44	102.60
26	BB	1081	U	C5-C6-N1	5.16	125.28	122.70
26	BB	1085	A	C6-N1-C2	5.16	121.69	118.60
26	BB	1945	G	N9-C1'-C2'	-5.16	106.33	112.00
26	BB	1980	G	N3-C2-N2	-5.16	116.29	119.90
26	BB	2124	G	C8-N9-C4	-5.16	104.34	106.40
26	BB	2584	U	N1-C2-N3	5.16	118.00	114.90
26	BB	2619	C	C5-C4-N4	-5.16	116.59	120.20
26	BB	2728	U	C2-N3-C4	-5.16	123.91	127.00
37	BM	62	VAL	CA-CB-CG2	5.16	118.64	110.90
1	AA	587	G	O4'-C1'-N9	5.16	112.33	108.20
1	AA	1345	U	C1'-O4'-C4'	-5.16	105.77	109.90
1	AA	1491	G	O4'-C1'-N9	5.16	112.33	108.20
5	AE	156	LEU	CB-CG-CD1	-5.16	102.23	111.00
17	AQ	88	MET	CA-CB-CG	-5.16	104.53	113.30
26	BB	188	G	O4'-C4'-C3'	5.16	110.23	106.10
26	BB	230	G	C6-N1-C2	-5.16	122.01	125.10
26	BB	875	G	O4'-C1'-N9	5.16	112.33	108.20
26	BB	1511	G	N3-C2-N2	-5.16	116.29	119.90
26	BB	1521	G	N7-C8-N9	5.16	115.68	113.10
26	BB	1702	G	C4-C5-N7	-5.16	108.74	110.80
26	BB	1982	U	C4-C5-C6	5.16	122.79	119.70
26	BB	2083	G	N1-C6-O6	-5.16	116.81	119.90
1	AA	226	G	C6-N1-C2	5.16	128.19	125.10
1	AA	346	G	N7-C8-N9	-5.16	110.52	113.10
1	AA	669	G	C3'-C2'-C1'	5.16	105.62	101.50
1	AA	942	G	P-O3'-C3'	5.16	125.89	119.70
1	AA	1174	G	C4-C5-N7	5.16	112.86	110.80
1	AA	1302	C	C5-C4-N4	-5.16	116.59	120.20
1	AA	1440	U	C2-N3-C4	-5.16	123.91	127.00
15	AO	23	LEU	CB-CG-CD1	5.16	119.77	111.00
25	BA	108	A	C6-C5-N7	-5.16	128.69	132.30
26	BB	84	A	C5-C6-N1	5.16	120.28	117.70
26	BB	583	G	N1-C6-O6	5.16	122.99	119.90
26	BB	740	C	C4-C5-C6	-5.16	114.82	117.40
26	BB	1127	A	C8-N9-C4	-5.16	103.74	105.80
26	BB	1158	C	N1-C2-O2	5.16	121.99	118.90
26	BB	1429	G	C4-C5-N7	5.16	112.86	110.80
26	BB	1450	G	C5'-C4'-O4'	5.16	115.29	109.10
26	BB	1612	C	C2-N3-C4	5.16	122.48	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1659	G	N3-C4-C5	-5.16	126.02	128.60
26	BB	1879	C	N3-C4-C5	-5.16	119.84	121.90
26	BB	1946	U	C1'-O4'-C4'	-5.16	105.78	109.90
26	BB	2000	C	O5'-P-OP1	-5.16	101.06	105.70
26	BB	2177	C	C1'-O4'-C4'	5.16	114.03	109.90
26	BB	2273	A	C5-N7-C8	5.16	106.48	103.90
26	BB	2835	A	C6-N1-C2	5.16	121.69	118.60
1	AA	74	A	C4-C5-C6	-5.15	114.42	117.00
1	AA	308	C	C5-C6-N1	-5.15	118.42	121.00
1	AA	1082	A	C5-C6-N6	5.15	127.82	123.70
1	AA	1171	A	C2-N3-C4	-5.15	108.02	110.60
1	AA	1347	G	C5-C6-O6	5.15	131.69	128.60
16	AP	81	ASP	CB-CG-OD1	-5.15	113.66	118.30
26	BB	78	U	O4'-C4'-C3'	-5.15	98.85	104.00
26	BB	400	G	C5-N7-C8	-5.15	101.72	104.30
26	BB	1225	G	P-O5'-C5'	5.15	129.15	120.90
26	BB	1246	A	P-O3'-C3'	5.15	125.89	119.70
26	BB	2182	U	N1-C2-N3	5.15	117.99	114.90
26	BB	2543	G	C4'-C3'-C2'	-5.15	97.45	102.60
44	BT	90	ARG	NE-CZ-NH2	-5.15	117.72	120.30
1	AA	1	A	C6-C5-N7	5.15	135.91	132.30
1	AA	48	C	O4'-C1'-N1	5.15	112.32	108.20
1	AA	305	G	C6-N1-C2	-5.15	122.01	125.10
1	AA	1013	G	C6-N1-C2	5.15	128.19	125.10
1	AA	1180	A	O4'-C1'-N9	5.15	112.32	108.20
1	AA	1233	G	N1-C6-O6	-5.15	116.81	119.90
1	AA	1386	G	C4-C5-N7	5.15	112.86	110.80
26	BB	311	A	O4'-C1'-N9	5.15	112.32	108.20
26	BB	912	C	C5-C4-N4	5.15	123.81	120.20
26	BB	1097	U	C5-C4-O4	-5.15	122.81	125.90
26	BB	1327	A	C4-C5-N7	-5.15	108.12	110.70
26	BB	1360	G	C5'-C4'-O4'	5.15	115.28	109.10
26	BB	1586	A	C5-C6-N6	-5.15	119.58	123.70
26	BB	1657	U	N3-C4-C5	5.15	117.69	114.60
26	BB	1791	A	C3'-C2'-C1'	5.15	105.62	101.50
26	BB	1838	C	C6-N1-C2	-5.15	118.24	120.30
26	BB	1924	C	C3'-C2'-C1'	5.15	105.62	101.50
26	BB	2257	U	C4'-C3'-C2'	5.15	107.75	102.60
26	BB	2573	C	C5-C6-N1	5.15	123.58	121.00
26	BB	2661	G	C4'-C3'-C2'	-5.15	97.45	102.60
26	BB	2679	A	C5'-C4'-O4'	5.15	115.28	109.10
26	BB	2851	A	P-O3'-C3'	5.15	125.88	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	105	G	O4'-C1'-C2'	-5.15	100.65	105.80
1	AA	147	G	N1-C2-N3	5.15	126.99	123.90
1	AA	826	C	C5-C6-N1	-5.15	118.42	121.00
1	AA	830	G	C5-C6-N1	5.15	114.08	111.50
1	AA	843	U	O4'-C1'-N1	5.15	112.32	108.20
1	AA	1353	G	C5-C6-N1	5.15	114.08	111.50
1	AA	1512	U	C1'-O4'-C4'	-5.15	105.78	109.90
26	BB	175	G	OP1-P-O3'	5.15	116.53	105.20
26	BB	190	A	C6-C5-N7	5.15	135.91	132.30
26	BB	615	U	O4'-C1'-N1	5.15	112.32	108.20
26	BB	805	G	C4-C5-N7	-5.15	108.74	110.80
26	BB	1054	A	C5-N7-C8	-5.15	101.33	103.90
26	BB	1200	C	O5'-C5'-C4'	5.15	121.48	111.70
26	BB	1413	A	N1-C2-N3	-5.15	126.72	129.30
26	BB	1653	G	C6-C5-N7	-5.15	127.31	130.40
26	BB	1753	G	O5'-C5'-C4'	-5.15	101.91	111.70
26	BB	2283	C	N1-C2-O2	5.15	121.99	118.90
26	BB	2346	A	C5'-C4'-C3'	-5.15	107.76	116.00
26	BB	2513	A	C4-C5-N7	-5.15	108.12	110.70
1	AA	184	G	C2-N3-C4	5.15	114.47	111.90
1	AA	334	C	C5-C6-N1	-5.15	118.42	121.00
4	AD	62	C	C5-C6-N1	-5.15	118.42	121.00
26	BB	347	A	C6-N1-C2	5.15	121.69	118.60
26	BB	766	U	O4'-C1'-N1	5.15	112.32	108.20
26	BB	1570	A	N1-C6-N6	5.15	121.69	118.60
26	BB	2856	A	P-O3'-C3'	5.15	125.88	119.70
1	AA	328	C	P-O3'-C3'	5.15	125.88	119.70
1	AA	765	G	O4'-C1'-C2'	-5.15	100.65	105.80
1	AA	1049	U	N3-C4-C5	-5.15	111.51	114.60
1	AA	1056	U	N3-C4-O4	5.15	123.00	119.40
1	AA	1067	A	O4'-C4'-C3'	5.15	110.22	106.10
1	AA	1393	U	C5'-C4'-O4'	5.15	115.28	109.10
2	AB	38	A	C5'-C4'-O4'	5.15	115.28	109.10
22	AV	2	ARG	NE-CZ-NH2	-5.15	117.73	120.30
26	BB	188	G	C4-N9-C1'	-5.15	119.81	126.50
26	BB	222	A	C4-C5-N7	-5.15	108.13	110.70
26	BB	634	C	C6-N1-C2	-5.15	118.24	120.30
26	BB	643	A	C3'-C2'-C1'	5.15	105.62	101.50
26	BB	889	C	N1-C2-N3	-5.15	115.60	119.20
26	BB	926	G	C5-C6-O6	-5.15	125.51	128.60
26	BB	1158	C	C4-C5-C6	-5.15	114.83	117.40
26	BB	1371	G	N1-C2-N3	5.15	126.99	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1492	G	C4-C5-N7	-5.15	108.74	110.80
26	BB	1613	G	O4'-C4'-C3'	5.15	110.22	106.10
26	BB	1889	A	N3-C4-C5	-5.15	123.20	126.80
26	BB	2036	C	N3-C4-N4	5.15	121.60	118.00
26	BB	2317	A	C3'-C2'-C1'	5.15	105.62	101.50
26	BB	2577	A	P-O3'-C3'	5.15	125.88	119.70
26	BB	2633	G	C5-C6-O6	-5.15	125.51	128.60
26	BB	2730	C	C5'-C4'-O4'	5.15	115.28	109.10
26	BB	2816	G	N9-C4-C5	5.15	107.46	105.40
1	AA	1049	U	C1'-O4'-C4'	-5.15	105.78	109.90
1	AA	1400	C	C5'-C4'-C3'	-5.15	107.77	116.00
26	BB	411	G	C6-C5-N7	-5.15	127.31	130.40
26	BB	943	A	C5-C6-N1	5.15	120.27	117.70
26	BB	1210	G	C6-C5-N7	5.15	133.49	130.40
26	BB	1221	C	C3'-C2'-C1'	-5.15	97.38	101.50
26	BB	1654	A	C5-C6-N1	5.15	120.27	117.70
26	BB	1849	G	C5-C6-N1	5.15	114.07	111.50
26	BB	1866	A	C6-C5-N7	5.15	135.90	132.30
26	BB	2211	A	C4-C5-C6	-5.15	114.43	117.00
26	BB	2223	G	N3-C4-C5	-5.15	126.03	128.60
1	AA	64	G	P-O3'-C3'	5.14	125.87	119.70
1	AA	142	G	C4-C5-N7	5.14	112.86	110.80
1	AA	264	C	N3-C4-N4	5.14	121.60	118.00
1	AA	591	U	C4-C5-C6	5.14	122.79	119.70
1	AA	640	A	C6-C5-N7	5.14	135.90	132.30
1	AA	1156	G	C5'-C4'-O4'	5.14	115.27	109.10
1	AA	1493	A	C6-N1-C2	5.14	121.69	118.60
3	AC	57	C	O3'-P-O5'	5.14	113.78	104.00
5	AE	56	LEU	O-C-N	5.14	130.93	122.70
26	BB	585	G	O4'-C4'-C3'	5.14	110.22	106.10
26	BB	920	A	C6-N1-C2	5.14	121.69	118.60
26	BB	1153	C	C5'-C4'-C3'	-5.14	107.77	116.00
26	BB	1239	G	C5-N7-C8	5.14	106.87	104.30
26	BB	1664	A	C6-C5-N7	5.14	135.90	132.30
26	BB	1669	A	C2-N3-C4	-5.14	108.03	110.60
26	BB	1696	G	C4-N9-C1'	5.14	133.19	126.50
26	BB	1868	C	C5-C4-N4	5.14	123.80	120.20
26	BB	2203	U	N3-C4-C5	5.14	117.69	114.60
26	BB	2208	C	O4'-C4'-C3'	-5.14	98.86	104.00
26	BB	2286	G	C4-C5-C6	5.14	121.89	118.80
26	BB	2750	A	N1-C6-N6	5.14	121.69	118.60
37	BM	84	CYS	CA-CB-SG	-5.14	104.74	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	16	A	N9-C4-C5	5.14	107.86	105.80
1	AA	926	G	N1-C2-N2	-5.14	111.57	116.20
1	AA	1333	A	N1-C6-N6	-5.14	115.52	118.60
26	BB	557	C	N1-C2-O2	5.14	121.99	118.90
26	BB	728	G	C5-N7-C8	-5.14	101.73	104.30
26	BB	823	C	C5'-C4'-C3'	-5.14	107.77	116.00
26	BB	1590	A	C4-C5-N7	5.14	113.27	110.70
26	BB	1651	G	C4-C5-N7	-5.14	108.74	110.80
26	BB	1823	G	C4'-C3'-C2'	-5.14	97.46	102.60
26	BB	1978	A	N1-C2-N3	-5.14	126.73	129.30
26	BB	2043	C	N3-C4-N4	5.14	121.60	118.00
26	BB	2543	G	P-O5'-C5'	5.14	129.13	120.90
26	BB	2847	U	C5'-C4'-C3'	-5.14	107.77	116.00
34	BJ	131	TYR	CB-CG-CD2	-5.14	117.91	121.00
35	BK	36	GLU	OE1-CD-OE2	5.14	129.47	123.30
1	AA	130	A	C8-N9-C4	5.14	107.86	105.80
1	AA	209	U	C2-N1-C1'	5.14	123.87	117.70
1	AA	473	U	C5'-C4'-O4'	5.14	115.27	109.10
1	AA	638	U	C2-N1-C1'	-5.14	111.53	117.70
1	AA	1350	A	C5-C6-N1	-5.14	115.13	117.70
2	AB	67	G	C5'-C4'-C3'	-5.14	107.77	116.00
26	BB	299	A	C5-N7-C8	-5.14	101.33	103.90
26	BB	879	G	N3-C4-C5	-5.14	126.03	128.60
26	BB	1377	G	O4'-C1'-N9	5.14	112.31	108.20
26	BB	1690	A	C4'-C3'-C2'	-5.14	97.46	102.60
26	BB	1880	U	C1'-O4'-C4'	-5.14	105.79	109.90
26	BB	1912	A	C5-C6-N6	-5.14	119.59	123.70
26	BB	2660	A	C5'-C4'-C3'	5.14	124.22	116.00
26	BB	2719	G	N1-C2-N3	-5.14	120.81	123.90
1	AA	85	U	N1-C2-O2	5.14	126.40	122.80
1	AA	178	C	O4'-C1'-N1	5.14	112.31	108.20
1	AA	232	G	C5-C6-N1	5.14	114.07	111.50
1	AA	512	U	O4'-C1'-N1	5.14	112.31	108.20
1	AA	875	U	N3-C2-O2	-5.14	118.60	122.20
1	AA	1373	G	N9-C4-C5	-5.14	103.34	105.40
1	AA	1538	C	P-O3'-C3'	5.14	125.87	119.70
26	BB	68	G	C3'-C2'-C1'	5.14	105.61	101.50
26	BB	160	A	C8-N9-C4	5.14	107.86	105.80
26	BB	360	U	N3-C2-O2	-5.14	118.60	122.20
26	BB	528	A	N3-C4-C5	-5.14	123.20	126.80
26	BB	763	G	N3-C2-N2	-5.14	116.30	119.90
26	BB	905	A	N7-C8-N9	5.14	116.37	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1034	G	C6-N1-C2	-5.14	122.02	125.10
26	BB	1495	A	C5-C6-N6	5.14	127.81	123.70
26	BB	1581	G	C3'-C2'-C1'	5.14	105.61	101.50
26	BB	1943	U	N1-C2-N3	5.14	117.98	114.90
26	BB	2100	G	C5-C6-O6	-5.14	125.52	128.60
26	BB	2202	U	C2-N3-C4	-5.14	123.92	127.00
26	BB	2826	A	C4-C5-N7	-5.14	108.13	110.70
28	BD	143	VAL	CG1-CB-CG2	5.14	119.12	110.90
1	AA	757	U	C5'-C4'-C3'	-5.14	107.78	116.00
1	AA	1117	A	C8-N9-C4	-5.14	103.75	105.80
24	AX	57	LYS	CA-CB-CG	5.14	124.70	113.40
26	BB	655	A	C5'-C4'-C3'	-5.14	107.78	116.00
26	BB	810	U	N3-C2-O2	-5.14	118.60	122.20
26	BB	950	G	N9-C4-C5	5.14	107.45	105.40
26	BB	1097	U	O4'-C1'-N1	5.14	112.31	108.20
26	BB	1133	A	C5'-C4'-O4'	5.14	115.27	109.10
26	BB	1290	C	C4-C5-C6	-5.14	114.83	117.40
26	BB	1317	G	C8-N9-C4	-5.14	104.34	106.40
26	BB	1971	U	N3-C4-O4	5.14	123.00	119.40
26	BB	2317	A	C5'-C4'-C3'	-5.14	107.78	116.00
26	BB	2714	G	N3-C4-C5	-5.14	126.03	128.60
26	BB	2811	G	C1'-O4'-C4'	5.14	114.01	109.90
1	AA	285	C	C2'-C3'-O3'	5.14	121.92	113.70
1	AA	452	A	C4'-C3'-C2'	-5.14	97.46	102.60
1	AA	722	G	C6-N1-C2	-5.14	122.02	125.10
1	AA	767	A	O3'-P-O5'	5.14	113.76	104.00
1	AA	946	A	N3-C4-C5	-5.14	123.20	126.80
6	AF	223	PRO	N-CD-CG	5.14	110.90	103.20
26	BB	16	C	O5'-C5'-C4'	-5.14	101.94	111.70
26	BB	102	U	N1-C2-N3	5.14	117.98	114.90
26	BB	378	C	O4'-C1'-N1	5.14	112.31	108.20
26	BB	548	G	C3'-C2'-C1'	-5.14	97.39	101.50
26	BB	1002	G	C5-C6-N1	5.14	114.07	111.50
26	BB	1653	G	C8-N9-C4	-5.14	104.35	106.40
26	BB	1840	G	C5-C6-N1	5.14	114.07	111.50
26	BB	2056	G	C5-N7-C8	-5.14	101.73	104.30
26	BB	2120	G	C1'-O4'-C4'	5.14	114.01	109.90
26	BB	2395	C	N3-C4-N4	5.14	121.59	118.00
26	BB	2585	U	P-O3'-C3'	5.14	125.86	119.70
26	BB	2891	U	C5-C4-O4	-5.14	122.82	125.90
1	AA	202	G	N1-C2-N2	-5.13	111.58	116.20
1	AA	529	G	C5-N7-C8	5.13	106.87	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	579	A	C4'-C3'-C2'	-5.13	97.47	102.60
1	AA	585	G	C3'-C2'-C1'	5.13	105.61	101.50
1	AA	598	U	C5-C6-N1	-5.13	120.13	122.70
1	AA	660	C	C6-N1-C2	-5.13	118.25	120.30
1	AA	772	U	O4'-C1'-N1	5.13	112.31	108.20
1	AA	1036	A	N9-C1'-C2'	-5.13	106.35	112.00
1	AA	1091	U	C2-N3-C4	-5.13	123.92	127.00
1	AA	1119	C	C4'-C3'-C2'	-5.13	97.47	102.60
1	AA	1121	U	O4'-C1'-N1	5.13	112.31	108.20
1	AA	1323	G	C4-C5-N7	5.13	112.85	110.80
1	AA	1444	U	C4-C5-C6	5.13	122.78	119.70
1	AA	1531	A	C3'-C2'-C1'	-5.13	97.39	101.50
3	AC	15	G	N3-C2-N2	5.13	123.50	119.90
25	BA	28	C	C6-N1-C2	-5.13	118.25	120.30
25	BA	105	G	N3-C4-N9	-5.13	122.92	126.00
26	BB	565	C	C5'-C4'-O4'	5.13	115.26	109.10
26	BB	622	G	P-O3'-C3'	5.13	125.86	119.70
26	BB	865	C	C4-C5-C6	-5.13	114.83	117.40
26	BB	1292	G	C5-C6-N1	5.13	114.07	111.50
26	BB	1346	G	N7-C8-N9	-5.13	110.53	113.10
26	BB	1505	A	C4'-C3'-C2'	-5.13	97.47	102.60
26	BB	1507	C	C1'-C2'-O2'	-5.13	95.20	110.60
26	BB	2073	C	C2-N1-C1'	-5.13	113.15	118.80
26	BB	2259	U	O4'-C1'-N1	5.13	112.31	108.20
26	BB	2716	C	N3-C4-C5	-5.13	119.85	121.90
26	BB	2878	U	N1-C1'-C2'	-5.13	106.35	112.00
26	BB	2882	A	N1-C2-N3	5.13	131.87	129.30
1	AA	74	A	N7-C8-N9	5.13	116.37	113.80
1	AA	197	A	C5'-C4'-C3'	-5.13	107.79	116.00
1	AA	569	C	N1-C1'-C2'	-5.13	106.35	112.00
1	AA	1018	G	C5-C6-O6	-5.13	125.52	128.60
1	AA	1097	C	N3-C2-O2	-5.13	118.31	121.90
1	AA	1174	G	C1'-O4'-C4'	5.13	114.01	109.90
26	BB	195	A	C5-C6-N1	5.13	120.27	117.70
26	BB	588	U	O5'-P-OP1	-5.13	101.08	105.70
26	BB	931	U	C5-C4-O4	-5.13	122.82	125.90
26	BB	1473	G	N9-C4-C5	5.13	107.45	105.40
26	BB	2865	U	N1-C2-N3	5.13	117.98	114.90
1	AA	222	C	C3'-C2'-C1'	-5.13	97.39	101.50
1	AA	375	U	N1-C2-N3	5.13	117.98	114.90
1	AA	480	U	C3'-C2'-C1'	5.13	105.61	101.50
1	AA	530	G	N1-C2-N2	5.13	120.82	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	560	A	O5'-C5'-C4'	-5.13	101.95	111.70
1	AA	937	A	C6-C5-N7	-5.13	128.71	132.30
1	AA	1162	C	C5'-C4'-C3'	-5.13	107.79	116.00
1	AA	1384	C	C4-C5-C6	-5.13	114.83	117.40
26	BB	84	A	P-O3'-C3'	5.13	125.86	119.70
26	BB	207	A	C1'-O4'-C4'	5.13	114.01	109.90
26	BB	254	G	C5-C6-N1	-5.13	108.93	111.50
26	BB	319	G	N3-C4-C5	-5.13	126.03	128.60
26	BB	1382	G	C5-N7-C8	5.13	106.87	104.30
26	BB	1541	C	P-O3'-C3'	5.13	125.86	119.70
26	BB	1800	C	O4'-C1'-N1	5.13	112.31	108.20
26	BB	1924	C	O4'-C1'-C2'	-5.13	100.67	105.80
26	BB	1931	U	O4'-C1'-N1	-5.13	104.09	108.20
26	BB	2581	G	C2-N3-C4	-5.13	109.33	111.90
26	BB	2786	U	N3-C4-O4	5.13	122.99	119.40
38	BN	55	MET	CA-CB-CG	-5.13	104.58	113.30
46	BV	62	VAL	CA-CB-CG1	-5.13	103.20	110.90
51	B0	18	LEU	CB-CG-CD1	5.13	119.72	111.00
1	AA	307	C	C5-C6-N1	5.13	123.56	121.00
1	AA	1203	C	C3'-C2'-C1'	5.13	105.60	101.50
4	AD	31	G	C4-C5-C6	5.13	121.88	118.80
26	BB	194	G	C8-N9-C4	5.13	108.45	106.40
26	BB	587	C	N1-C2-N3	-5.13	115.61	119.20
26	BB	1355	G	N9-C4-C5	-5.13	103.35	105.40
26	BB	1520	U	C5'-C4'-C3'	-5.13	107.79	116.00
26	BB	1702	G	C4-C5-C6	5.13	121.88	118.80
26	BB	1837	C	N1-C1'-C2'	-5.13	106.36	112.00
26	BB	2434	A	OP1-P-OP2	-5.13	111.90	119.60
26	BB	2840	C	C4'-C3'-C2'	-5.13	97.47	102.60
1	AA	53	A	C4-C5-C6	5.13	119.56	117.00
1	AA	1072	G	C4'-C3'-C2'	-5.13	97.47	102.60
1	AA	1476	A	C2-N3-C4	5.13	113.16	110.60
4	AD	43	G	C5-C6-O6	-5.13	125.52	128.60
26	BB	16	C	C2-N3-C4	5.13	122.46	119.90
26	BB	151	C	C2'-C3'-O3'	5.13	121.91	113.70
26	BB	383	C	O4'-C1'-N1	5.13	112.30	108.20
26	BB	798	G	N1-C2-N2	5.13	120.82	116.20
26	BB	889	C	N3-C4-N4	5.13	121.59	118.00
26	BB	1287	A	C5'-C4'-C3'	-5.13	107.80	116.00
26	BB	1627	G	C8-N9-C4	-5.13	104.35	106.40
26	BB	1638	C	N3-C4-N4	5.13	121.59	118.00
26	BB	1662	U	C4-C5-C6	5.13	122.78	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2399	G	C4'-C3'-C2'	-5.13	97.47	102.60
26	BB	2625	G	C1'-O4'-C4'	5.13	114.00	109.90
42	BR	13	LYS	O-C-N	-5.13	114.49	122.70
48	BX	47	VAL	CA-CB-CG2	5.13	118.59	110.90
1	AA	501	C	N1-C2-O2	5.13	121.98	118.90
1	AA	935	A	C5-C6-N6	-5.13	119.60	123.70
25	BA	70	C	C2-N1-C1'	5.13	124.44	118.80
26	BB	35	G	C5'-C4'-O4'	5.13	115.25	109.10
26	BB	88	G	N3-C4-C5	-5.13	126.04	128.60
26	BB	198	C	C4-C5-C6	-5.13	114.84	117.40
26	BB	537	G	N1-C2-N2	-5.13	111.59	116.20
26	BB	835	C	C4'-C3'-C2'	-5.13	97.47	102.60
26	BB	905	A	C3'-C2'-C1'	-5.13	97.40	101.50
26	BB	945	A	N1-C2-N3	-5.13	126.74	129.30
26	BB	1093	G	P-O5'-C5'	5.13	129.10	120.90
26	BB	1423	G	OP1-P-OP2	-5.13	111.91	119.60
26	BB	1602	U	N3-C2-O2	-5.13	118.61	122.20
26	BB	1632	A	C3'-C2'-C1'	5.13	105.60	101.50
26	BB	1773	A	C5-C6-N6	-5.13	119.60	123.70
26	BB	2310	C	C4-C5-C6	5.13	119.96	117.40
26	BB	2450	A	P-O5'-C5'	5.13	129.10	120.90
26	BB	2536	G	N3-C4-C5	-5.13	126.04	128.60
1	AA	1534	A	O4'-C1'-C2'	-5.12	100.67	105.80
26	BB	1040	A	N9-C4-C5	-5.12	103.75	105.80
26	BB	1066	U	C5-C4-O4	-5.12	122.83	125.90
26	BB	1415	U	O4'-C4'-C3'	-5.12	98.88	104.00
26	BB	1546	G	P-O3'-C3'	5.12	125.85	119.70
26	BB	2283	C	N3-C4-C5	-5.12	119.85	121.90
26	BB	2411	A	N1-C2-N3	-5.12	126.74	129.30
37	BM	121	GLU	OE1-CD-OE2	5.12	129.45	123.30
1	AA	98	A	N7-C8-N9	-5.12	111.24	113.80
1	AA	105	G	C8-N9-C4	-5.12	104.35	106.40
1	AA	153	C	C4'-C3'-C2'	-5.12	97.48	102.60
1	AA	424	G	C5'-C4'-C3'	5.12	124.20	116.00
1	AA	474	G	O4'-C1'-N9	5.12	112.30	108.20
1	AA	542	G	N1-C6-O6	5.12	122.97	119.90
1	AA	1048	G	C4'-C3'-C2'	-5.12	97.48	102.60
1	AA	1260	G	C5-C6-N1	5.12	114.06	111.50
1	AA	1391	U	N3-C4-C5	5.12	117.67	114.60
1	AA	1471	U	C2-N1-C1'	5.12	123.85	117.70
26	BB	56	A	C5-C6-N6	5.12	127.80	123.70
26	BB	373	U	N1-C1'-C2'	-5.12	106.36	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	410	G	C4-C5-C6	5.12	121.87	118.80
26	BB	749	A	N9-C4-C5	5.12	107.85	105.80
26	BB	836	G	O4'-C1'-C2'	5.12	112.21	107.60
26	BB	1568	G	C8-N9-C1'	5.12	133.66	127.00
26	BB	2108	A	O3'-P-O5'	-5.12	94.27	104.00
26	BB	2174	C	C5-C6-N1	5.12	123.56	121.00
26	BB	2225	A	C8-N9-C4	-5.12	103.75	105.80
26	BB	2421	G	P-O3'-C3'	5.12	125.85	119.70
26	BB	2524	G	N3-C4-C5	-5.12	126.04	128.60
26	BB	2548	U	O4'-C4'-C3'	5.12	110.20	106.10
1	AA	284	C	C2-N3-C4	5.12	122.46	119.90
1	AA	338	A	C3'-C2'-C1'	-5.12	97.40	101.50
1	AA	1297	G	C1'-O4'-C4'	-5.12	105.80	109.90
4	AD	12	G	C5-C6-O6	-5.12	125.53	128.60
4	AD	71	G	C5-C6-N1	5.12	114.06	111.50
26	BB	1674	G	C4-C5-C6	5.12	121.87	118.80
26	BB	1916	A	C8-N9-C4	-5.12	103.75	105.80
26	BB	2239	G	C3'-C2'-C1'	-5.12	97.40	101.50
26	BB	2403	C	N1-C2-N3	-5.12	115.61	119.20
26	BB	2447	G	N3-C4-C5	-5.12	126.04	128.60
26	BB	2473	U	C1'-O4'-C4'	-5.12	105.80	109.90
26	BB	2897	U	O3'-P-O5'	5.12	113.73	104.00
1	AA	5	U	N1-C1'-C2'	5.12	120.66	114.00
1	AA	713	G	C2-N3-C4	-5.12	109.34	111.90
1	AA	878	A	N7-C8-N9	5.12	116.36	113.80
1	AA	1489	G	N3-C2-N2	5.12	123.48	119.90
26	BB	666	A	C5-C6-N1	5.12	120.26	117.70
26	BB	1429	G	C8-N9-C1'	5.12	133.66	127.00
26	BB	1650	A	N3-C4-C5	-5.12	123.22	126.80
26	BB	1987	A	C4-C5-C6	-5.12	114.44	117.00
26	BB	2224	G	N1-C2-N3	-5.12	120.83	123.90
26	BB	2342	C	C5-C4-N4	-5.12	116.62	120.20
26	BB	2848	G	C5-C6-N1	5.12	114.06	111.50
1	AA	43	C	O4'-C1'-C2'	-5.12	100.68	105.80
1	AA	62	U	O4'-C1'-N1	-5.12	104.11	108.20
1	AA	134	G	O3'-P-O5'	-5.12	94.27	104.00
1	AA	144	G	N1-C2-N3	-5.12	120.83	123.90
1	AA	514	C	N1-C2-N3	-5.12	115.62	119.20
1	AA	727	G	O4'-C1'-C2'	-5.12	100.68	105.80
1	AA	886	G	C5-C6-O6	5.12	131.67	128.60
1	AA	1373	G	C5-N7-C8	-5.12	101.74	104.30
4	AD	66	C	C6-N1-C2	5.12	122.35	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	181	A	C5-N7-C8	5.12	106.46	103.90
26	BB	570	G	C6-N1-C2	-5.12	122.03	125.10
26	BB	679	C	C4'-C3'-C2'	-5.12	97.48	102.60
26	BB	1026	G	O4'-C4'-C3'	-5.12	98.88	104.00
26	BB	1132	U	C1'-C2'-O2'	5.12	125.96	110.60
26	BB	1496	A	N3-C4-C5	-5.12	123.22	126.80
26	BB	1706	C	OP2-P-O3'	5.12	116.46	105.20
26	BB	2249	U	N1-C2-N3	5.12	117.97	114.90
26	BB	2856	A	N9-C4-C5	5.12	107.85	105.80
26	BB	2866	U	N1-C2-N3	5.12	117.97	114.90
1	AA	144	G	N1-C6-O6	-5.12	116.83	119.90
1	AA	271	C	C5-C4-N4	-5.12	116.62	120.20
1	AA	327	A	C2-N3-C4	5.12	113.16	110.60
25	BA	94	A	C6-N1-C2	5.12	121.67	118.60
26	BB	567	U	C2-N3-C4	5.12	130.07	127.00
26	BB	1142	A	C5-C6-N1	-5.12	115.14	117.70
26	BB	1929	G	P-O3'-C3'	5.12	125.84	119.70
26	BB	2309	A	C3'-C2'-C1'	5.12	105.59	101.50
26	BB	2682	A	C8-N9-C4	-5.12	103.75	105.80
1	AA	396	C	C3'-C2'-C1'	5.12	105.59	101.50
1	AA	638	U	C6-N1-C1'	5.12	128.36	121.20
1	AA	1071	C	N3-C4-C5	5.12	123.95	121.90
1	AA	1105	A	O4'-C1'-N9	5.12	112.29	108.20
1	AA	1142	G	C8-N9-C4	-5.12	104.35	106.40
1	AA	1205	U	N1-C2-N3	5.12	117.97	114.90
1	AA	1462	C	C4'-C3'-C2'	-5.12	97.48	102.60
25	BA	98	G	N3-C4-C5	-5.12	126.04	128.60
26	BB	674	G	N3-C2-N2	-5.12	116.32	119.90
26	BB	1165	A	C5-N7-C8	5.12	106.46	103.90
26	BB	1314	C	N3-C4-N4	5.12	121.58	118.00
26	BB	1875	G	N1-C2-N3	-5.12	120.83	123.90
26	BB	1920	C	C6-N1-C2	5.12	122.35	120.30
26	BB	2206	C	C4-C5-C6	-5.12	114.84	117.40
26	BB	2239	G	C4-C5-N7	5.12	112.85	110.80
26	BB	2260	C	C5-C6-N1	5.12	123.56	121.00
26	BB	2639	A	O5'-P-OP2	-5.12	101.10	105.70
26	BB	2714	G	C5-C6-N1	5.12	114.06	111.50
26	BB	2716	C	C6-N1-C1'	-5.12	114.66	120.80
26	BB	2883	A	C5-N7-C8	5.12	106.46	103.90
32	BH	103	ASN	O-C-N	5.12	130.89	122.70
40	BP	51	LEU	CB-CG-CD2	5.12	119.70	111.00
43	BS	24	TYR	CB-CG-CD1	-5.12	117.93	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	146	G	C8-N9-C4	-5.11	104.36	106.40
1	AA	333	U	C2'-C3'-O3'	5.11	121.88	113.70
1	AA	626	G	N1-C2-N2	5.11	120.80	116.20
1	AA	1233	G	O4'-C4'-C3'	5.11	110.19	106.10
7	AG	134	TYR	CB-CG-CD2	-5.11	117.93	121.00
26	BB	325	G	N3-C4-C5	-5.11	126.04	128.60
26	BB	625	G	N1-C6-O6	-5.11	116.83	119.90
26	BB	650	C	O4'-C1'-N1	5.11	112.29	108.20
26	BB	868	U	C6-N1-C2	-5.11	117.93	121.00
26	BB	1146	C	C6-N1-C2	5.11	122.34	120.30
26	BB	1522	A	C5-C6-N6	-5.11	119.61	123.70
26	BB	2119	A	C3'-C2'-C1'	-5.11	97.41	101.50
26	BB	2265	U	C4'-C3'-C2'	5.11	107.71	102.60
26	BB	2491	U	O4'-C1'-N1	5.11	112.29	108.20
26	BB	2586	U	P-O3'-C3'	5.11	125.83	119.70
26	BB	2743	U	C4'-C3'-C2'	-5.11	97.49	102.60
26	BB	2883	A	N1-C6-N6	-5.11	115.53	118.60
1	AA	416	G	N3-C4-C5	-5.11	126.04	128.60
1	AA	759	A	N7-C8-N9	5.11	116.36	113.80
1	AA	1352	C	C5-C6-N1	-5.11	118.44	121.00
1	AA	1530	G	N1-C6-O6	-5.11	116.83	119.90
21	AU	22	TYR	CB-CG-CD2	-5.11	117.93	121.00
25	BA	34	A	C8-N9-C4	-5.11	103.75	105.80
26	BB	70	G	C5-C6-N1	-5.11	108.94	111.50
26	BB	317	G	N1-C6-O6	-5.11	116.83	119.90
26	BB	1229	C	C3'-C2'-C1'	-5.11	97.41	101.50
26	BB	1278	C	N1-C1'-C2'	-5.11	106.38	112.00
26	BB	1396	U	C5-C4-O4	5.11	128.97	125.90
26	BB	2554	U	N1-C1'-C2'	-5.11	106.38	112.00
28	BD	30	ALA	N-CA-CB	-5.11	102.94	110.10
1	AA	215	C	C6-N1-C2	-5.11	118.25	120.30
1	AA	507	C	C4'-C3'-C2'	-5.11	97.49	102.60
1	AA	1069	C	O3'-P-O5'	5.11	113.71	104.00
1	AA	1185	G	N9-C4-C5	5.11	107.44	105.40
1	AA	1399	C	P-O3'-C3'	5.11	125.83	119.70
3	AC	34	U	N3-C4-O4	-5.11	115.82	119.40
4	AD	25	U	O4'-C1'-N1	5.11	112.29	108.20
26	BB	176	A	P-O3'-C3'	5.11	125.83	119.70
26	BB	704	G	P-O5'-C5'	-5.11	112.72	120.90
26	BB	731	C	C4'-C3'-C2'	-5.11	97.49	102.60
26	BB	885	C	N1-C1'-C2'	5.11	120.64	114.00
26	BB	966	G	C5-C6-N1	5.11	114.06	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1033	U	P-O3'-C3'	5.11	125.83	119.70
32	BH	59	ASP	CB-CG-OD2	-5.11	113.70	118.30
1	AA	503	C	N3-C2-O2	-5.11	118.32	121.90
1	AA	1539	C	C5-C4-N4	5.11	123.78	120.20
26	BB	953	G	C8-N9-C1'	5.11	133.64	127.00
26	BB	1068	G	C5-C6-O6	-5.11	125.53	128.60
26	BB	1381	G	N3-C2-N2	-5.11	116.32	119.90
26	BB	1508	A	C3'-C2'-C1'	-5.11	97.41	101.50
26	BB	1644	C	O4'-C4'-C3'	5.11	110.19	106.10
26	BB	2806	C	C2-N3-C4	-5.11	117.35	119.90
30	BF	135	ALA	N-CA-CB	-5.11	102.95	110.10
1	AA	893	C	O4'-C1'-N1	5.11	112.29	108.20
1	AA	913	A	N1-C6-N6	5.11	121.67	118.60
3	AC	41	A	C5'-C4'-O4'	5.11	115.23	109.10
12	AL	5	TYR	CB-CG-CD1	-5.11	117.94	121.00
26	BB	381	G	C3'-C2'-C1'	-5.11	97.41	101.50
26	BB	1091	G	C2-N3-C4	5.11	114.45	111.90
26	BB	1132	U	C5-C4-O4	5.11	128.96	125.90
26	BB	1438	U	N3-C4-O4	5.11	122.97	119.40
26	BB	1933	G	C6-N1-C2	-5.11	122.04	125.10
26	BB	2001	C	O4'-C1'-N1	5.11	112.29	108.20
26	BB	2087	G	N3-C4-N9	5.11	129.06	126.00
26	BB	2097	A	O4'-C1'-N9	5.11	112.29	108.20
26	BB	2123	G	N7-C8-N9	5.11	115.65	113.10
26	BB	2218	G	C8-N9-C4	-5.11	104.36	106.40
26	BB	2509	G	C5'-C4'-O4'	5.11	115.23	109.10
26	BB	2671	G	N7-C8-N9	-5.11	110.55	113.10
26	BB	2683	C	N3-C4-N4	-5.11	114.42	118.00
1	AA	32	A	O3'-P-O5'	5.11	113.70	104.00
1	AA	346	G	C3'-C2'-C1'	5.11	105.58	101.50
1	AA	548	G	N9-C1'-C2'	-5.11	106.38	112.00
1	AA	585	G	N7-C8-N9	5.11	115.65	113.10
1	AA	615	G	C5-C6-N1	5.11	114.05	111.50
1	AA	741	G	N9-C1'-C2'	-5.11	106.38	112.00
1	AA	1174	G	C3'-C2'-C1'	5.11	105.58	101.50
1	AA	1262	C	O5'-C5'-C4'	-5.11	102.00	111.70
1	AA	1529	G	C5-C6-O6	5.11	131.66	128.60
2	AB	7	G	N1-C2-N3	-5.11	120.84	123.90
9	AI	110	ARG	NE-CZ-NH1	5.11	122.85	120.30
25	BA	63	C	O4'-C1'-N1	5.11	112.28	108.20
26	BB	79	C	C5'-C4'-O4'	5.11	115.23	109.10
26	BB	653	U	P-O5'-C5'	5.11	129.07	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	832	U	C5-C6-N1	-5.11	120.15	122.70
26	BB	919	U	C5-C6-N1	-5.11	120.15	122.70
26	BB	1201	U	C6-N1-C2	-5.11	117.94	121.00
26	BB	1436	G	C2-N3-C4	5.11	114.45	111.90
26	BB	1470	A	C4'-C3'-C2'	-5.11	97.50	102.60
26	BB	1688	U	O4'-C1'-N1	5.11	112.28	108.20
26	BB	2368	C	C5'-C4'-O4'	5.11	115.23	109.10
26	BB	2408	U	N3-C4-O4	5.11	122.97	119.40
26	BB	2455	G	P-O3'-C3'	5.11	125.83	119.70
26	BB	2691	C	O4'-C1'-N1	5.11	112.28	108.20
26	BB	2873	A	N9-C4-C5	-5.11	103.76	105.80
27	BC	80	GLN	O-C-N	-5.11	114.52	123.20
1	AA	168	G	N9-C4-C5	-5.10	103.36	105.40
1	AA	315	A	N9-C1'-C2'	-5.10	106.39	112.00
1	AA	317	U	N3-C4-O4	5.10	122.97	119.40
1	AA	617	G	C3'-C2'-C1'	-5.10	97.42	101.50
3	AC	21	U	N3-C2-O2	-5.10	118.63	122.20
26	BB	25	U	N3-C2-O2	5.10	125.77	122.20
26	BB	986	C	C4'-C3'-C2'	-5.10	97.50	102.60
26	BB	1235	G	N3-C2-N2	5.10	123.47	119.90
26	BB	1298	C	C2-N3-C4	5.10	122.45	119.90
26	BB	1445	G	C8-N9-C1'	5.10	133.64	127.00
26	BB	1753	G	P-O5'-C5'	5.10	129.07	120.90
26	BB	2343	U	C5-C6-N1	-5.10	120.15	122.70
55	B4	50	GLU	CB-CA-C	5.10	120.61	110.40
1	AA	259	G	N7-C8-N9	5.10	115.65	113.10
1	AA	404	G	C5-C6-N1	5.10	114.05	111.50
1	AA	591	U	C5'-C4'-O4'	5.10	115.22	109.10
1	AA	1133	G	N3-C2-N2	-5.10	116.33	119.90
2	AB	41	C	C6-N1-C2	-5.10	118.26	120.30
4	AD	28	U	P-O3'-C3'	5.10	125.82	119.70
9	AI	42	TRP	NE1-CE2-CD2	-5.10	102.20	107.30
26	BB	106	C	C4'-C3'-C2'	-5.10	97.50	102.60
26	BB	218	A	C5-C6-N1	5.10	120.25	117.70
26	BB	481	G	C1'-O4'-C4'	-5.10	105.82	109.90
26	BB	573	U	C5'-C4'-C3'	-5.10	107.84	116.00
26	BB	1264	A	C5-C6-N1	5.10	120.25	117.70
26	BB	1372	U	N3-C4-C5	-5.10	111.54	114.60
26	BB	2028	U	C6-N1-C2	-5.10	117.94	121.00
26	BB	2158	A	N9-C1'-C2'	-5.10	106.39	112.00
26	BB	2256	G	C5-C6-O6	-5.10	125.54	128.60
26	BB	2341	G	C2-N3-C4	5.10	114.45	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2407	A	N1-C2-N3	5.10	131.85	129.30
26	BB	2546	U	C6-N1-C2	-5.10	117.94	121.00
26	BB	2600	A	N3-C4-N9	-5.10	123.32	127.40
26	BB	2698	U	N3-C4-C5	5.10	117.66	114.60
26	BB	2851	A	C4-C5-C6	5.10	119.55	117.00
1	AA	16	A	C5-N7-C8	5.10	106.45	103.90
1	AA	610	U	C6-N1-C1'	-5.10	114.06	121.20
1	AA	867	G	C3'-C2'-C1'	5.10	105.58	101.50
1	AA	1024	G	N9-C1'-C2'	-5.10	106.39	112.00
4	AD	11	A	C3'-C2'-C1'	-5.10	97.42	101.50
4	AD	15	G	N9-C4-C5	-5.10	103.36	105.40
25	BA	21	G	O3'-P-O5'	-5.10	94.31	104.00
26	BB	504	A	N3-C4-C5	-5.10	123.23	126.80
26	BB	1379	U	C5-C4-O4	-5.10	122.84	125.90
26	BB	1651	G	C8-N9-C1'	5.10	133.63	127.00
26	BB	1872	A	O4'-C1'-N9	5.10	112.28	108.20
26	BB	2282	G	C5'-C4'-C3'	-5.10	107.84	116.00
28	BD	13	ARG	CD-NE-CZ	5.10	130.74	123.60
38	BN	10	GLU	OE1-CD-OE2	5.10	129.42	123.30
1	AA	6	G	C6-C5-N7	-5.10	127.34	130.40
1	AA	288	A	C5-N7-C8	-5.10	101.35	103.90
1	AA	359	G	C5-N7-C8	-5.10	101.75	104.30
1	AA	432	A	N7-C8-N9	5.10	116.35	113.80
1	AA	1169	A	P-O3'-C3'	5.10	125.82	119.70
1	AA	1430	A	C2-N3-C4	5.10	113.15	110.60
1	AA	1459	G	C5-C6-O6	-5.10	125.54	128.60
26	BB	149	A	C5'-C4'-C3'	5.10	124.16	116.00
26	BB	230	G	N3-C4-C5	-5.10	126.05	128.60
26	BB	587	C	N3-C4-C5	5.10	123.94	121.90
26	BB	805	G	C4-C5-C6	-5.10	115.74	118.80
26	BB	807	U	C3'-C2'-C1'	-5.10	97.42	101.50
26	BB	1099	G	C6-N1-C2	-5.10	122.04	125.10
26	BB	1838	C	C2-N3-C4	5.10	122.45	119.90
26	BB	2314	A	C3'-C2'-C1'	5.10	105.58	101.50
26	BB	2408	U	C6-N1-C2	-5.10	117.94	121.00
26	BB	2667	C	C5'-C4'-C3'	-5.10	107.84	116.00
1	AA	82	G	P-O3'-C3'	5.10	125.82	119.70
1	AA	164	G	C4-C5-N7	-5.10	108.76	110.80
1	AA	272	C	C4'-C3'-C2'	-5.10	97.50	102.60
1	AA	721	G	C4-C5-N7	-5.10	108.76	110.80
1	AA	799	G	N3-C4-N9	5.10	129.06	126.00
1	AA	1138	G	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	1156	G	N1-C2-N3	-5.10	120.84	123.90
1	AA	1328	C	C5'-C4'-C3'	-5.10	107.84	116.00
3	AC	21	U	N3-C4-O4	5.10	122.97	119.40
4	AD	27	G	C8-N9-C1'	5.10	133.63	127.00
6	AF	197	VAL	CA-CB-CG1	5.10	118.55	110.90
20	AT	47	ASP	CB-CG-OD2	5.10	122.89	118.30
25	BA	4	C	C6-N1-C2	-5.10	118.26	120.30
26	BB	345	A	O4'-C1'-N9	5.10	112.28	108.20
26	BB	391	A	N1-C6-N6	-5.10	115.54	118.60
26	BB	844	A	C2-N3-C4	-5.10	108.05	110.60
26	BB	877	A	N1-C6-N6	-5.10	115.54	118.60
26	BB	1283	G	C5'-C4'-O4'	5.10	115.22	109.10
26	BB	2591	C	C3'-C2'-C1'	5.10	105.58	101.50
26	BB	2681	C	C3'-C2'-O2'	-5.10	98.52	113.30
26	BB	2731	G	C2-N3-C4	-5.10	109.35	111.90
26	BB	2789	C	N1-C1'-C2'	-5.10	106.39	112.00
26	BB	2839	G	C5'-C4'-C3'	-5.10	107.84	116.00
26	BB	2853	C	N3-C2-O2	-5.10	118.33	121.90
32	BH	148	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	AA	150	U	C6-N1-C2	-5.10	117.94	121.00
18	AR	41	HIS	CA-CB-CG	5.10	122.26	113.60
26	BB	135	U	C3'-C2'-C1'	-5.10	97.42	101.50
26	BB	785	G	O4'-C1'-N9	5.10	112.28	108.20
26	BB	1005	C	C4-C5-C6	-5.10	114.85	117.40
26	BB	1406	U	C4'-C3'-C2'	-5.10	97.50	102.60
26	BB	1952	A	C4-C5-C6	-5.10	114.45	117.00
26	BB	2208	C	O4'-C1'-N1	5.10	112.28	108.20
1	AA	1006	G	C5-C6-O6	-5.09	125.54	128.60
1	AA	1126	U	C4'-C3'-C2'	5.09	107.69	102.60
1	AA	1327	C	C5-C6-N1	-5.09	118.45	121.00
2	AB	11	U	N1-C1'-C2'	-5.09	106.40	112.00
4	AD	3	C	N1-C1'-C2'	-5.09	106.40	112.00
4	AD	5	G	C5-N7-C8	-5.09	101.75	104.30
25	BA	119	A	O4'-C1'-C2'	5.09	112.19	107.60
26	BB	211	C	C5-C6-N1	-5.09	118.45	121.00
26	BB	426	C	C3'-C2'-C1'	5.09	105.58	101.50
26	BB	674	G	N3-C4-C5	-5.09	126.05	128.60
26	BB	1055	G	C8-N9-C1'	5.09	133.62	127.00
26	BB	1498	C	C5'-C4'-O4'	5.09	115.21	109.10
26	BB	1577	C	N3-C4-N4	5.09	121.57	118.00
26	BB	1677	A	C5-C6-N1	5.09	120.25	117.70
26	BB	1739	A	N7-C8-N9	5.09	116.35	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1837	C	C6-N1-C1'	5.09	126.91	120.80
26	BB	1921	G	C8-N9-C4	5.09	108.44	106.40
26	BB	2415	G	N1-C2-N3	-5.09	120.84	123.90
30	BF	129	PRO	CA-N-CD	-5.09	104.37	111.50
37	BM	18	ARG	NE-CZ-NH2	-5.09	117.75	120.30
1	AA	446	G	C5-N7-C8	-5.09	101.75	104.30
1	AA	473	U	C3'-C2'-C1'	-5.09	97.43	101.50
1	AA	884	U	C5'-C4'-C3'	-5.09	107.85	116.00
1	AA	889	A	N1-C6-N6	5.09	121.66	118.60
1	AA	987	G	C5-C6-N1	5.09	114.05	111.50
18	AR	68	TYR	CD1-CE1-CZ	-5.09	115.22	119.80
25	BA	61	G	N1-C2-N3	5.09	126.96	123.90
26	BB	295	G	C3'-C2'-C1'	5.09	105.57	101.50
26	BB	1465	G	P-O5'-C5'	5.09	129.05	120.90
26	BB	2144	G	N9-C1'-C2'	5.09	120.62	114.00
52	B1	36	GLU	OE1-CD-OE2	5.09	129.41	123.30
1	AA	354	G	C6-N1-C2	-5.09	122.05	125.10
1	AA	937	A	C4-C5-C6	5.09	119.55	117.00
1	AA	1021	A	C5'-C4'-O4'	5.09	115.21	109.10
1	AA	1117	A	OP1-P-OP2	5.09	127.24	119.60
1	AA	1281	C	C5'-C4'-O4'	-5.09	102.99	109.10
2	AB	70	C	C1'-O4'-C4'	5.09	113.97	109.90
26	BB	245	G	C6-N1-C2	5.09	128.16	125.10
26	BB	337	C	C5-C4-N4	-5.09	116.64	120.20
26	BB	481	G	N9-C4-C5	-5.09	103.36	105.40
26	BB	625	G	C4-C5-C6	5.09	121.86	118.80
26	BB	924	G	C5'-C4'-O4'	5.09	115.21	109.10
26	BB	1338	G	C4'-C3'-C2'	-5.09	97.51	102.60
26	BB	1576	U	N1-C1'-C2'	-5.09	106.40	112.00
26	BB	1719	G	P-O3'-C3'	5.09	125.81	119.70
26	BB	1922	G	O4'-C1'-N9	5.09	112.27	108.20
26	BB	2289	G	P-O3'-C3'	-5.09	113.59	119.70
26	BB	2375	G	N9-C4-C5	5.09	107.44	105.40
26	BB	2446	G	O5'-C5'-C4'	-5.09	102.03	111.70
26	BB	2594	C	C4'-C3'-C2'	-5.09	97.51	102.60
26	BB	2628	C	O4'-C1'-N1	5.09	112.27	108.20
1	AA	52	C	O4'-C1'-C2'	5.09	112.18	107.60
1	AA	154	U	C1'-O4'-C4'	5.09	113.97	109.90
1	AA	447	G	C5'-C4'-C3'	-5.09	107.86	116.00
1	AA	610	U	O4'-C4'-C3'	-5.09	98.91	104.00
1	AA	717	U	C5'-C4'-C3'	-5.09	107.86	116.00
1	AA	1061	G	C1'-O4'-C4'	5.09	113.97	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1125	U	C4'-C3'-C2'	-5.09	97.51	102.60
1	AA	1401	G	C5-C6-N1	5.09	114.04	111.50
2	AB	52	A	N1-C2-N3	-5.09	126.75	129.30
4	AD	18	U	C5'-C4'-C3'	-5.09	107.86	116.00
24	AX	37	TYR	CG-CD1-CE1	-5.09	117.23	121.30
25	BA	18	G	C4-C5-C6	5.09	121.85	118.80
26	BB	67	U	N1-C2-O2	-5.09	119.24	122.80
26	BB	74	A	C5'-C4'-O4'	-5.09	102.99	109.10
26	BB	429	A	C5'-C4'-C3'	5.09	124.14	116.00
26	BB	1257	C	N1-C2-O2	5.09	121.95	118.90
26	BB	1353	A	N3-C4-C5	-5.09	123.24	126.80
26	BB	1406	U	C6-N1-C2	-5.09	117.95	121.00
26	BB	1560	G	C2-N3-C4	5.09	114.44	111.90
26	BB	1798	U	N3-C4-O4	5.09	122.96	119.40
26	BB	2331	G	C5-C6-N1	-5.09	108.95	111.50
26	BB	2333	A	C4-C5-N7	5.09	113.24	110.70
26	BB	2371	G	C4-C5-C6	-5.09	115.75	118.80
40	BP	86	ARG	NE-CZ-NH2	-5.09	117.75	120.30
55	B4	21	THR	C-N-CA	5.09	134.43	121.70
1	AA	616	G	N3-C4-C5	5.09	131.14	128.60
1	AA	832	G	O4'-C1'-C2'	-5.09	100.71	105.80
1	AA	1394	A	N1-C6-N6	-5.09	115.55	118.60
2	AB	18	G	N1-C6-O6	-5.09	116.85	119.90
18	AR	60	SER	N-CA-CB	5.09	118.13	110.50
26	BB	1901	A	C5-N7-C8	5.09	106.44	103.90
26	BB	1935	G	C5-C6-N1	5.09	114.04	111.50
26	BB	1953	A	O4'-C4'-C3'	-5.09	98.91	104.00
26	BB	2049	G	N1-C2-N3	-5.09	120.85	123.90
26	BB	2291	U	C5'-C4'-O4'	5.09	115.21	109.10
26	BB	2361	G	N7-C8-N9	5.09	115.64	113.10
26	BB	2692	G	N9-C1'-C2'	-5.09	106.40	112.00
26	BB	2826	A	C4-C5-C6	-5.09	114.46	117.00
42	BR	91	VAL	CA-CB-CG2	5.09	118.53	110.90
45	BU	14	ALA	N-CA-CB	-5.09	102.98	110.10
56	B5	7	PRO	CA-N-CD	-5.09	104.38	111.50
1	AA	419	C	O4'-C1'-C2'	-5.09	100.71	105.80
1	AA	1324	A	N1-C2-N3	5.09	131.84	129.30
4	AD	70	C	C4'-C3'-C2'	-5.09	97.51	102.60
26	BB	572	A	N1-C2-N3	-5.09	126.76	129.30
26	BB	1010	A	P-O3'-C3'	5.09	125.80	119.70
26	BB	1341	G	C4'-C3'-C2'	-5.09	97.51	102.60
26	BB	1746	A	O3'-P-O5'	-5.09	94.34	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1827	U	C4-C5-C6	5.09	122.75	119.70
26	BB	2401	U	N3-C4-O4	5.09	122.96	119.40
26	BB	2570	G	C6-C5-N7	-5.09	127.35	130.40
26	BB	2694	G	C4-C5-C6	-5.09	115.75	118.80
26	BB	2707	U	C3'-C2'-C1'	5.09	105.57	101.50
26	BB	2721	A	O4'-C4'-C3'	5.09	110.17	106.10
1	AA	450	G	C3'-C2'-C1'	5.08	105.57	101.50
1	AA	1206	G	C2-N3-C4	5.08	114.44	111.90
4	AD	62	C	C4-C5-C6	5.08	119.94	117.40
26	BB	88	G	C1'-O4'-C4'	-5.08	105.83	109.90
26	BB	267	C	C5-C4-N4	-5.08	116.64	120.20
26	BB	759	G	N9-C4-C5	5.08	107.43	105.40
26	BB	2021	C	N3-C2-O2	-5.08	118.34	121.90
1	AA	27	G	C8-N9-C4	-5.08	104.37	106.40
1	AA	132	C	N3-C4-N4	5.08	121.56	118.00
1	AA	218	U	N1-C2-O2	-5.08	119.24	122.80
1	AA	420	U	N3-C2-O2	-5.08	118.64	122.20
1	AA	526	C	C6-N1-C2	-5.08	118.27	120.30
1	AA	819	A	O3'-P-O5'	-5.08	94.34	104.00
1	AA	910	C	C6-N1-C2	-5.08	118.27	120.30
1	AA	1041	G	C6-N1-C2	-5.08	122.05	125.10
1	AA	1087	G	O4'-C1'-C2'	-5.08	100.72	105.80
1	AA	1148	U	C1'-O4'-C4'	5.08	113.97	109.90
1	AA	1429	A	O4'-C1'-N9	5.08	112.27	108.20
1	AA	1459	G	N1-C6-O6	5.08	122.95	119.90
15	AO	35	ARG	NE-CZ-NH1	5.08	122.84	120.30
26	BB	694	U	N1-C1'-C2'	-5.08	106.41	112.00
26	BB	697	G	C8-N9-C1'	5.08	133.61	127.00
26	BB	785	G	N7-C8-N9	5.08	115.64	113.10
26	BB	947	A	N9-C1'-C2'	-5.08	106.41	112.00
26	BB	1240	U	C2-N3-C4	-5.08	123.95	127.00
26	BB	1371	G	C5-C6-N1	5.08	114.04	111.50
26	BB	1520	U	C6-N1-C2	-5.08	117.95	121.00
26	BB	1589	U	C5-C6-N1	-5.08	120.16	122.70
26	BB	1740	G	C4-C5-C6	5.08	121.85	118.80
26	BB	1831	G	C2-N3-C4	5.08	114.44	111.90
26	BB	1974	C	C4-C5-C6	-5.08	114.86	117.40
26	BB	2294	G	N1-C2-N3	-5.08	120.85	123.90
26	BB	2398	U	C6-N1-C2	-5.08	117.95	121.00
26	BB	2534	A	N3-C4-C5	-5.08	123.24	126.80
26	BB	2807	U	C5-C4-O4	-5.08	122.85	125.90
36	BL	133	ALA	N-CA-CB	-5.08	102.98	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	138	G	C5-N7-C8	5.08	106.84	104.30
1	AA	151	A	C5-C6-N1	-5.08	115.16	117.70
1	AA	191	G	C5-N7-C8	-5.08	101.76	104.30
1	AA	807	A	P-O3'-C3'	5.08	125.80	119.70
1	AA	1047	G	O4'-C4'-C3'	5.08	110.17	106.10
1	AA	1072	G	N9-C4-C5	5.08	107.43	105.40
1	AA	1268	G	C6-C5-N7	-5.08	127.35	130.40
1	AA	1437	A	N1-C2-N3	-5.08	126.76	129.30
20	AT	34	GLY	N-CA-C	5.08	125.81	113.10
26	BB	208	C	O4'-C4'-C3'	-5.08	98.92	104.00
26	BB	1059	G	P-O3'-C3'	5.08	125.80	119.70
26	BB	1682	G	N9-C4-C5	-5.08	103.37	105.40
26	BB	1693	U	N3-C4-O4	-5.08	115.84	119.40
26	BB	1749	A	C8-N9-C4	-5.08	103.77	105.80
26	BB	1878	G	C1'-O4'-C4'	5.08	113.97	109.90
26	BB	2560	A	N9-C4-C5	5.08	107.83	105.80
1	AA	337	G	O4'-C1'-N9	5.08	112.26	108.20
1	AA	790	A	O4'-C1'-N9	5.08	112.26	108.20
1	AA	909	A	C3'-C2'-C1'	5.08	105.56	101.50
1	AA	979	C	C6-N1-C2	-5.08	118.27	120.30
26	BB	1270	C	C5-C6-N1	5.08	123.54	121.00
26	BB	1714	U	C1'-O4'-C4'	-5.08	105.84	109.90
26	BB	1860	G	C6-N1-C2	-5.08	122.05	125.10
26	BB	2168	G	N3-C4-C5	-5.08	126.06	128.60
26	BB	2185	U	P-O5'-C5'	5.08	129.03	120.90
26	BB	2466	C	C5'-C4'-O4'	5.08	115.20	109.10
26	BB	2892	G	O4'-C4'-C3'	5.08	110.16	106.10
1	AA	56	U	O4'-C1'-N1	5.08	112.26	108.20
1	AA	164	G	O3'-P-O5'	-5.08	94.35	104.00
1	AA	412	A	C2'-C3'-O3'	5.08	121.82	113.70
3	AC	21	U	O5'-P-OP2	-5.08	101.13	105.70
26	BB	153	U	N3-C2-O2	-5.08	118.64	122.20
26	BB	187	G	N7-C8-N9	-5.08	110.56	113.10
26	BB	255	A	N7-C8-N9	5.08	116.34	113.80
26	BB	560	C	C2-N1-C1'	-5.08	113.21	118.80
26	BB	662	G	N3-C2-N2	-5.08	116.35	119.90
26	BB	1210	G	C6-N1-C2	-5.08	122.05	125.10
26	BB	1518	C	N3-C4-N4	-5.08	114.44	118.00
26	BB	2125	G	C1'-O4'-C4'	-5.08	105.84	109.90
26	BB	2467	C	N1-C2-O2	5.08	121.95	118.90
26	BB	2870	C	P-O3'-C3'	5.08	125.80	119.70
26	BB	2895	G	N9-C1'-C2'	-5.08	106.41	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1250	A	C6-N1-C2	-5.08	115.55	118.60
1	AA	1283	U	N3-C4-C5	-5.08	111.55	114.60
1	AA	1375	A	C6-C5-N7	-5.08	128.75	132.30
2	AB	1	A	O4'-C1'-N9	5.08	112.26	108.20
18	AR	34	GLN	CG-CD-NE2	5.08	128.88	116.70
26	BB	233	A	O4'-C4'-C3'	5.08	110.16	106.10
26	BB	246	C	O4'-C1'-C2'	-5.08	100.72	105.80
26	BB	277	G	C5'-C4'-C3'	-5.08	107.88	116.00
26	BB	750	A	N7-C8-N9	-5.08	111.26	113.80
26	BB	1033	U	N1-C2-O2	5.08	126.35	122.80
26	BB	1261	C	C1'-O4'-C4'	-5.08	105.84	109.90
26	BB	1382	G	C5'-C4'-O4'	5.08	115.19	109.10
26	BB	1866	A	N7-C8-N9	-5.08	111.26	113.80
26	BB	2132	U	OP1-P-O3'	5.08	116.37	105.20
1	AA	197	A	C4'-C3'-O3'	-5.08	98.74	109.40
1	AA	353	A	C5'-C4'-O4'	5.08	115.19	109.10
1	AA	877	G	C4-C5-C6	5.08	121.84	118.80
1	AA	1117	A	C5-N7-C8	-5.08	101.36	103.90
1	AA	1441	A	O3'-P-O5'	-5.08	94.36	104.00
1	AA	1466	C	C2-N3-C4	-5.08	117.36	119.90
2	AB	30	G	C4-C5-N7	-5.08	108.77	110.80
4	AD	45	A	C1'-O4'-C4'	5.08	113.96	109.90
7	AG	18	LEU	CB-CG-CD2	5.08	119.63	111.00
26	BB	58	G	C4-C5-C6	5.08	121.84	118.80
26	BB	235	U	C3'-C2'-C1'	5.08	105.56	101.50
26	BB	1757	A	C1'-O4'-C4'	5.08	113.96	109.90
26	BB	1844	C	C5-C6-N1	-5.08	118.46	121.00
26	BB	2242	G	P-O3'-C3'	5.08	125.79	119.70
30	BF	76	PRO	N-CD-CG	5.08	110.81	103.20
42	BR	69	VAL	CG1-CB-CG2	-5.08	102.78	110.90
45	BU	84	ARG	NH1-CZ-NH2	-5.08	113.82	119.40
1	AA	95	C	C3'-C2'-C1'	-5.07	97.44	101.50
1	AA	191	G	C2-N3-C4	5.07	114.44	111.90
1	AA	477	C	O4'-C1'-N1	5.07	112.26	108.20
1	AA	551	U	N3-C4-O4	-5.07	115.85	119.40
1	AA	722	G	C4'-C3'-C2'	-5.07	97.53	102.60
1	AA	944	G	C8-N9-C4	-5.07	104.37	106.40
1	AA	976	G	C5'-C4'-O4'	-5.07	103.01	109.10
1	AA	1019	A	N7-C8-N9	5.07	116.34	113.80
1	AA	1044	A	C4'-C3'-C2'	-5.07	97.53	102.60
1	AA	1076	U	N1-C2-N3	5.07	117.94	114.90
1	AA	1082	A	C4'-C3'-C2'	-5.07	97.53	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1241	G	C5-C6-N1	5.07	114.04	111.50
1	AA	1510	C	C1'-O4'-C4'	-5.07	105.84	109.90
2	AB	18	G	N3-C4-C5	-5.07	126.06	128.60
13	AM	45	ARG	NE-CZ-NH2	-5.07	117.76	120.30
26	BB	112	U	N1-C2-N3	-5.07	111.86	114.90
26	BB	186	G	N3-C4-C5	-5.07	126.06	128.60
26	BB	189	G	O4'-C4'-C3'	5.07	110.16	106.10
26	BB	359	G	C2-N3-C4	5.07	114.44	111.90
26	BB	451	U	C5-C6-N1	-5.07	120.16	122.70
26	BB	455	C	C1'-O4'-C4'	-5.07	105.84	109.90
26	BB	1015	U	N3-C4-O4	5.07	122.95	119.40
26	BB	1353	A	C5'-C4'-C3'	-5.07	107.88	116.00
26	BB	2135	A	C4'-C3'-C2'	-5.07	97.53	102.60
26	BB	2158	A	C1'-O4'-C4'	-5.07	105.84	109.90
26	BB	2441	U	O5'-P-OP2	5.07	116.79	110.70
26	BB	2490	G	N1-C2-N2	5.07	120.77	116.20
26	BB	2587	A	C5-C6-N6	5.07	127.76	123.70
43	BS	86	SER	C-N-CA	5.07	134.38	121.70
50	BZ	28	PHE	CZ-CE2-CD2	-5.07	114.01	120.10
1	AA	531	U	C3'-C2'-C1'	-5.07	97.44	101.50
1	AA	657	U	N1-C2-O2	-5.07	119.25	122.80
1	AA	671	G	N7-C8-N9	-5.07	110.56	113.10
4	AD	16	C	C6-N1-C1'	-5.07	114.71	120.80
17	AQ	93	PRO	N-CA-CB	5.07	109.39	103.30
26	BB	1135	C	C4'-C3'-C2'	-5.07	97.53	102.60
26	BB	1812	U	N1-C2-O2	-5.07	119.25	122.80
26	BB	2060	A	C5'-C4'-O4'	-5.07	103.01	109.10
1	AA	130	A	C4-C5-N7	5.07	113.23	110.70
1	AA	207	C	O4'-C1'-N1	5.07	112.26	108.20
1	AA	562	U	O4'-C1'-C2'	5.07	112.16	107.60
1	AA	862	C	O4'-C1'-N1	5.07	112.26	108.20
1	AA	869	G	C2-N3-C4	5.07	114.44	111.90
1	AA	881	G	C5-C6-N1	5.07	114.03	111.50
25	BA	95	U	N1-C1'-C2'	-5.07	106.42	112.00
26	BB	186	G	C5'-C4'-C3'	-5.07	107.89	116.00
26	BB	340	A	C4-C5-C6	5.07	119.54	117.00
26	BB	471	A	N9-C4-C5	5.07	107.83	105.80
26	BB	572	A	O4'-C4'-C3'	5.07	110.16	106.10
26	BB	849	A	N7-C8-N9	5.07	116.33	113.80
26	BB	1415	U	C5'-C4'-O4'	5.07	115.19	109.10
26	BB	1667	G	C5-N7-C8	-5.07	101.77	104.30
26	BB	1684	G	N1-C2-N2	5.07	120.76	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1734	G	N7-C8-N9	5.07	115.64	113.10
26	BB	1744	A	C3'-C2'-C1'	5.07	105.56	101.50
26	BB	1839	G	C5-C6-N1	5.07	114.03	111.50
32	BH	151	ARG	NE-CZ-NH1	5.07	122.83	120.30
39	BO	89	VAL	CA-CB-CG2	-5.07	103.30	110.90
40	BP	80	PHE	CB-CG-CD2	5.07	124.35	120.80
47	BW	43	LYS	C-N-CA	5.07	134.38	121.70
1	AA	118	U	N3-C4-O4	5.07	122.95	119.40
1	AA	326	G	C5'-C4'-C3'	-5.07	107.89	116.00
1	AA	442	G	N9-C1'-C2'	-5.07	106.42	112.00
1	AA	467	U	C4-C5-C6	5.07	122.74	119.70
1	AA	989	U	N3-C4-O4	-5.07	115.85	119.40
1	AA	1142	G	C5'-C4'-C3'	-5.07	107.89	116.00
1	AA	1362	A	O4'-C1'-N9	5.07	112.25	108.20
1	AA	1374	A	C1'-O4'-C4'	-5.07	105.84	109.90
3	AC	46	C	C2-N3-C4	-5.07	117.36	119.90
18	AR	80	LEU	CB-CG-CD1	5.07	119.62	111.00
26	BB	54	G	C1'-O4'-C4'	-5.07	105.84	109.90
26	BB	328	U	C2-N3-C4	-5.07	123.96	127.00
26	BB	1310	G	N3-C4-C5	-5.07	126.06	128.60
26	BB	1762	A	C4-C5-N7	-5.07	108.17	110.70
26	BB	2469	A	C2-N3-C4	5.07	113.14	110.60
28	BD	155	ARG	NE-CZ-NH2	-5.07	117.77	120.30
1	AA	414	A	C4-N9-C1'	-5.07	117.18	126.30
1	AA	620	C	N3-C4-C5	5.07	123.93	121.90
1	AA	859	G	C5'-C4'-C3'	-5.07	107.89	116.00
1	AA	901	A	N9-C1'-C2'	-5.07	106.43	112.00
1	AA	1013	G	C5-C6-N1	-5.07	108.97	111.50
1	AA	1351	U	C2-N3-C4	5.07	130.04	127.00
1	AA	1473	G	C5-C6-N1	5.07	114.03	111.50
2	AB	33	U	C4-C5-C6	5.07	122.74	119.70
25	BA	83	G	N7-C8-N9	5.07	115.63	113.10
26	BB	233	A	C4'-C3'-C2'	-5.07	97.53	102.60
26	BB	485	C	C2-N3-C4	-5.07	117.37	119.90
26	BB	797	G	C3'-C2'-C1'	5.07	105.55	101.50
26	BB	826	U	OP2-P-O3'	5.07	116.35	105.20
26	BB	925	A	O4'-C4'-C3'	5.07	110.16	106.10
26	BB	1371	G	C2-N3-C4	-5.07	109.37	111.90
26	BB	1555	G	N3-C4-C5	-5.07	126.07	128.60
26	BB	1590	A	C5-C6-N6	-5.07	119.65	123.70
26	BB	2049	G	C4-C5-N7	-5.07	108.77	110.80
26	BB	2297	A	C1'-O4'-C4'	-5.07	105.85	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2324	U	P-O5'-C5'	5.07	129.01	120.90
26	BB	2653	U	O4'-C1'-C2'	-5.07	100.73	105.80
1	AA	92	U	C5-C6-N1	-5.07	120.17	122.70
1	AA	602	A	C5'-C4'-C3'	-5.07	107.89	116.00
1	AA	714	G	C2-N3-C4	5.07	114.43	111.90
1	AA	1096	C	P-O3'-C3'	5.07	125.78	119.70
1	AA	1390	U	O3'-P-O5'	-5.07	94.38	104.00
1	AA	1461	G	N7-C8-N9	-5.07	110.57	113.10
1	AA	1484	C	N3-C4-C5	5.07	123.93	121.90
3	AC	52	U	N3-C2-O2	-5.07	118.65	122.20
22	AV	54	ARG	NE-CZ-NH1	-5.07	117.77	120.30
26	BB	59	U	N3-C2-O2	5.07	125.75	122.20
26	BB	68	G	C4-N9-C1'	5.07	133.09	126.50
26	BB	227	A	P-O3'-C3'	5.07	125.78	119.70
26	BB	467	G	C6-C5-N7	5.07	133.44	130.40
26	BB	499	U	C5'-C4'-O4'	5.07	115.18	109.10
26	BB	971	G	C1'-O4'-C4'	-5.07	105.85	109.90
26	BB	1225	G	C5-N7-C8	5.07	106.83	104.30
26	BB	1326	U	C6-N1-C2	-5.07	117.96	121.00
26	BB	1381	G	C5-N7-C8	-5.07	101.77	104.30
26	BB	1462	C	N3-C4-C5	5.07	123.93	121.90
26	BB	1568	G	C4-C5-N7	-5.07	108.77	110.80
26	BB	1582	C	C2-N3-C4	5.07	122.43	119.90
26	BB	1862	G	N3-C4-N9	5.07	129.04	126.00
26	BB	1869	G	O4'-C1'-C2'	-5.07	100.73	105.80
26	BB	2609	U	N1-C1'-C2'	5.07	120.59	114.00
26	BB	2902	C	N3-C4-N4	5.07	121.55	118.00
49	BY	71	LYS	C-N-CA	5.07	132.94	122.30
1	AA	579	A	C3'-C2'-C1'	5.06	105.55	101.50
1	AA	1027	C	N1-C1'-C2'	-5.06	106.43	112.00
1	AA	1374	A	C4-C5-N7	5.06	113.23	110.70
1	AA	1379	G	C4'-C3'-C2'	-5.06	97.54	102.60
2	AB	58	A	C4'-C3'-O3'	5.06	123.13	113.00
26	BB	212	G	C5-N7-C8	-5.06	101.77	104.30
26	BB	802	A	P-O3'-C3'	5.06	125.78	119.70
26	BB	1406	U	C2-N3-C4	-5.06	123.96	127.00
26	BB	2245	U	O3'-P-O5'	-5.06	94.38	104.00
26	BB	2603	G	N1-C6-O6	-5.06	116.86	119.90
26	BB	2830	C	N3-C2-O2	-5.06	118.36	121.90
1	AA	69	G	C5-N7-C8	-5.06	101.77	104.30
1	AA	264	C	O4'-C1'-N1	5.06	112.25	108.20
1	AA	459	A	C8-N9-C4	5.06	107.83	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	785	G	C5-C6-N1	-5.06	108.97	111.50
1	AA	863	U	C5-C4-O4	-5.06	122.86	125.90
1	AA	1034	G	N9-C1'-C2'	-5.06	106.43	112.00
1	AA	1283	U	N1-C2-O2	-5.06	119.26	122.80
3	AC	34	U	C6-N1-C2	-5.06	117.96	121.00
6	AF	109	GLU	OE1-CD-OE2	5.06	129.38	123.30
26	BB	176	A	N1-C6-N6	5.06	121.64	118.60
26	BB	262	A	P-O3'-C3'	5.06	125.77	119.70
26	BB	271	G	C5'-C4'-C3'	-5.06	107.90	116.00
26	BB	739	A	O4'-C4'-C3'	5.06	110.15	106.10
26	BB	789	A	C6-C5-N7	5.06	135.84	132.30
26	BB	982	C	C4'-C3'-C2'	5.06	107.66	102.60
26	BB	1113	U	C5-C4-O4	-5.06	122.86	125.90
26	BB	1517	G	C4'-C3'-C2'	-5.06	97.54	102.60
26	BB	1585	C	C3'-C2'-C1'	5.06	105.55	101.50
26	BB	1769	U	C2-N3-C4	5.06	130.04	127.00
26	BB	2011	U	C3'-C2'-C1'	5.06	105.55	101.50
26	BB	2013	A	O4'-C1'-C2'	-5.06	100.74	105.80
26	BB	2188	U	N1-C2-N3	-5.06	111.86	114.90
26	BB	2618	G	C5'-C4'-O4'	5.06	115.18	109.10
26	BB	2696	U	O4'-C1'-N1	5.06	112.25	108.20
1	AA	590	U	C4'-C3'-C2'	-5.06	97.54	102.60
1	AA	843	U	O4'-C1'-C2'	-5.06	100.74	105.80
26	BB	409	G	C4-N9-C1'	5.06	133.08	126.50
26	BB	712	G	O4'-C1'-N9	5.06	112.25	108.20
26	BB	1160	G	N3-C4-C5	-5.06	126.07	128.60
26	BB	1730	C	N3-C4-N4	5.06	121.54	118.00
26	BB	2105	U	OP1-P-O3'	5.06	116.33	105.20
26	BB	2201	G	C4-C5-N7	-5.06	108.78	110.80
26	BB	2326	C	C2-N3-C4	5.06	122.43	119.90
26	BB	2644	G	C3'-C2'-C1'	-5.06	97.45	101.50
1	AA	179	A	C2-N3-C4	5.06	113.13	110.60
1	AA	197	A	C4-C5-N7	5.06	113.23	110.70
1	AA	229	U	O4'-C1'-C2'	-5.06	100.74	105.80
1	AA	260	G	N9-C4-C5	-5.06	103.38	105.40
1	AA	733	G	C8-N9-C4	-5.06	104.38	106.40
1	AA	800	G	C5-C6-N1	5.06	114.03	111.50
1	AA	907	A	N9-C4-C5	5.06	107.82	105.80
1	AA	1354	U	N1-C2-O2	5.06	126.34	122.80
2	AB	40	C	O5'-C5'-C4'	-5.06	102.09	111.70
10	AJ	174	LEU	CB-CA-C	5.06	119.81	110.20
26	BB	203	A	N7-C8-N9	-5.06	111.27	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	222	A	N9-C4-C5	5.06	107.82	105.80
26	BB	666	A	N9-C1'-C2'	-5.06	106.43	112.00
26	BB	1000	A	C5'-C4'-C3'	-5.06	107.91	116.00
26	BB	1443	U	O4'-C1'-N1	5.06	112.25	108.20
26	BB	1552	A	N9-C1'-C2'	-5.06	106.43	112.00
26	BB	1599	U	C6-N1-C2	-5.06	117.97	121.00
26	BB	1721	G	C4-C5-N7	-5.06	108.78	110.80
26	BB	1816	C	C5'-C4'-C3'	-5.06	107.91	116.00
26	BB	1951	U	C4-C5-C6	5.06	122.74	119.70
26	BB	2452	C	O4'-C1'-N1	5.06	112.25	108.20
26	BB	2610	C	N1-C2-O2	5.06	121.94	118.90
26	BB	2663	G	O4'-C1'-N9	-5.06	104.15	108.20
26	BB	2680	U	C2-N1-C1'	5.06	123.77	117.70
54	B3	53	VAL	CG1-CB-CG2	-5.06	102.81	110.90
1	AA	27	G	C5-C6-N1	5.06	114.03	111.50
1	AA	735	C	C5'-C4'-O4'	-5.06	103.03	109.10
1	AA	770	C	N3-C2-O2	-5.06	118.36	121.90
1	AA	1001	C	C5-C6-N1	-5.06	118.47	121.00
1	AA	1347	G	C2-N3-C4	5.06	114.43	111.90
6	AF	70	ALA	CA-C-O	-5.06	109.48	120.10
26	BB	85	G	C6-C5-N7	-5.06	127.36	130.40
26	BB	130	C	O4'-C1'-N1	5.06	112.25	108.20
26	BB	202	U	O3'-P-O5'	-5.06	94.39	104.00
26	BB	202	U	N3-C2-O2	-5.06	118.66	122.20
26	BB	209	C	C5'-C4'-O4'	5.06	115.17	109.10
26	BB	1235	G	P-O3'-C3'	5.06	125.77	119.70
26	BB	1454	C	O4'-C1'-N1	5.06	112.25	108.20
26	BB	1906	G	C8-N9-C4	5.06	108.42	106.40
26	BB	1942	C	N3-C4-C5	-5.06	119.88	121.90
26	BB	2297	A	O5'-P-OP2	-5.06	101.15	105.70
26	BB	2333	A	C5-C6-N1	5.06	120.23	117.70
26	BB	2526	G	N3-C4-C5	-5.06	126.07	128.60
29	BE	17	GLU	OE1-CD-OE2	5.06	129.37	123.30
1	AA	254	G	N1-C2-N3	-5.06	120.87	123.90
1	AA	451	A	N7-C8-N9	-5.06	111.27	113.80
1	AA	549	C	O5'-P-OP2	-5.06	101.15	105.70
1	AA	670	G	C2-N3-C4	5.06	114.43	111.90
1	AA	866	C	C4'-C3'-C2'	-5.06	97.54	102.60
2	AB	26	A	C5'-C4'-C3'	5.06	124.09	116.00
4	AD	20	G	C6-N1-C2	-5.06	122.07	125.10
4	AD	58	A	C6-C5-N7	5.06	135.84	132.30
26	BB	389	G	N3-C2-N2	-5.06	116.36	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1122	G	N3-C4-N9	-5.06	122.97	126.00
26	BB	2043	C	C3'-C2'-C1'	5.06	105.55	101.50
26	BB	2145	C	C4'-C3'-C2'	5.06	107.66	102.60
26	BB	2192	U	C3'-C2'-C1'	-5.06	97.45	101.50
26	BB	2373	G	C5-C6-O6	-5.06	125.57	128.60
26	BB	2389	G	O5'-P-OP1	-5.06	101.15	105.70
26	BB	2661	G	N9-C4-C5	-5.06	103.38	105.40
1	AA	170	U	C5'-C4'-O4'	5.05	115.17	109.10
1	AA	226	G	C8-N9-C1'	5.05	133.57	127.00
1	AA	916	U	N3-C4-O4	5.05	122.94	119.40
1	AA	1117	A	O4'-C1'-C2'	-5.05	100.75	105.80
1	AA	1427	C	O4'-C1'-N1	5.05	112.24	108.20
1	AA	1507	A	C5'-C4'-O4'	5.05	115.17	109.10
2	AB	69	C	C6-N1-C2	-5.05	118.28	120.30
26	BB	5	A	C5-N7-C8	-5.05	101.37	103.90
26	BB	141	G	P-O5'-C5'	5.05	128.99	120.90
26	BB	166	U	C3'-C2'-C1'	-5.05	97.46	101.50
26	BB	220	G	C8-N9-C4	-5.05	104.38	106.40
26	BB	240	C	C5'-C4'-O4'	5.05	115.17	109.10
26	BB	539	G	O4'-C1'-N9	5.05	112.24	108.20
26	BB	553	G	C5'-C4'-C3'	-5.05	107.91	116.00
26	BB	785	G	C5-N7-C8	-5.05	101.77	104.30
26	BB	1257	C	C5-C6-N1	5.05	123.53	121.00
26	BB	1697	G	N1-C2-N2	-5.05	111.65	116.20
26	BB	1749	A	N3-C4-C5	-5.05	123.26	126.80
26	BB	2759	G	N9-C4-C5	5.05	107.42	105.40
30	BF	195	GLN	CB-CA-C	5.05	120.51	110.40
1	AA	698	G	N3-C4-N9	5.05	129.03	126.00
6	AF	185	THR	CA-CB-CG2	5.05	119.47	112.40
26	BB	67	U	N1-C2-N3	5.05	117.93	114.90
26	BB	928	A	N1-C6-N6	-5.05	115.57	118.60
26	BB	1741	C	N3-C2-O2	-5.05	118.36	121.90
26	BB	2017	U	C2-N3-C4	-5.05	123.97	127.00
26	BB	2284	A	C4'-C3'-C2'	-5.05	97.55	102.60
26	BB	2623	G	C5-C6-O6	-5.05	125.57	128.60
26	BB	2831	G	C4'-C3'-C2'	-5.05	97.55	102.60
1	AA	18	C	N1-C1'-C2'	-5.05	106.44	112.00
1	AA	152	A	O4'-C1'-C2'	-5.05	100.75	105.80
1	AA	256	U	C2-N1-C1'	-5.05	111.64	117.70
1	AA	479	U	N1-C2-O2	-5.05	119.26	122.80
1	AA	626	G	N3-C2-N2	-5.05	116.36	119.90
1	AA	849	G	C5-C6-N1	5.05	114.03	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1044	A	O3'-P-O5'	5.05	113.60	104.00
1	AA	1152	A	C4'-C3'-C2'	-5.05	97.55	102.60
1	AA	1252	A	N9-C4-C5	5.05	107.82	105.80
1	AA	1513	A	N9-C1'-C2'	-5.05	106.44	112.00
8	AH	97	PRO	N-CA-CB	5.05	109.36	103.30
25	BA	29	A	N9-C1'-C2'	-5.05	106.44	112.00
25	BA	65	U	P-O3'-C3'	5.05	125.76	119.70
25	BA	102	G	N9-C1'-C2'	-5.05	106.44	112.00
26	BB	96	C	C5'-C4'-O4'	5.05	115.16	109.10
26	BB	100	U	O4'-C4'-C3'	5.05	110.14	106.10
26	BB	112	U	C4-C5-C6	-5.05	116.67	119.70
26	BB	808	G	N7-C8-N9	5.05	115.63	113.10
26	BB	1155	A	C6-C5-N7	5.05	135.84	132.30
26	BB	1400	U	C5'-C4'-O4'	5.05	115.16	109.10
26	BB	1477	A	C3'-C2'-C1'	-5.05	97.46	101.50
26	BB	1978	A	N9-C1'-C2'	-5.05	106.44	112.00
26	BB	2229	U	C2-N3-C4	-5.05	123.97	127.00
42	BR	46	VAL	CA-CB-CG1	5.05	118.48	110.90
1	AA	97	G	N1-C6-O6	-5.05	116.87	119.90
1	AA	232	G	C5-C6-O6	5.05	131.63	128.60
26	BB	90	U	N3-C2-O2	-5.05	118.67	122.20
26	BB	144	A	N7-C8-N9	-5.05	111.28	113.80
26	BB	287	G	N9-C1'-C2'	-5.05	106.45	112.00
26	BB	630	G	C4-C5-N7	-5.05	108.78	110.80
26	BB	965	C	N3-C4-N4	-5.05	114.47	118.00
26	BB	1109	C	C5-C4-N4	5.05	123.73	120.20
26	BB	1382	G	C5-C6-N1	5.05	114.03	111.50
26	BB	1698	A	C6-C5-N7	-5.05	128.76	132.30
26	BB	1779	U	N1-C2-N3	5.05	117.93	114.90
26	BB	2101	A	C4'-C3'-C2'	-5.05	97.55	102.60
26	BB	2490	G	C5-C6-N1	5.05	114.03	111.50
26	BB	2733	A	C1'-O4'-C4'	5.05	113.94	109.90
26	BB	2819	G	C4'-C3'-C2'	-5.05	97.55	102.60
26	BB	2824	C	O4'-C1'-C2'	5.05	112.14	107.60
1	AA	169	C	N1-C2-O2	5.05	121.93	118.90
1	AA	246	A	C2-N3-C4	5.05	113.12	110.60
1	AA	1185	G	OP2-P-O3'	5.05	116.31	105.20
1	AA	1320	C	P-O3'-C3'	5.05	125.76	119.70
1	AA	1339	A	C5-C6-N1	5.05	120.22	117.70
26	BB	406	G	N9-C4-C5	-5.05	103.38	105.40
26	BB	726	G	N3-C2-N2	-5.05	116.37	119.90
26	BB	727	A	C4-C5-C6	-5.05	114.48	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1084	A	C6-C5-N7	5.05	135.83	132.30
26	BB	2269	G	N9-C4-C5	5.05	107.42	105.40
26	BB	2643	G	C4'-C3'-C2'	-5.05	97.55	102.60
1	AA	3	A	C8-N9-C4	5.05	107.82	105.80
1	AA	446	G	P-O3'-C3'	5.05	125.76	119.70
1	AA	564	C	N1-C1'-C2'	-5.05	106.45	112.00
1	AA	661	G	C3'-C2'-C1'	5.05	105.54	101.50
1	AA	865	A	C5-N7-C8	-5.05	101.38	103.90
1	AA	1364	U	N3-C4-C5	-5.05	111.57	114.60
4	AD	65	G	C5-C6-O6	-5.05	125.57	128.60
5	AE	20	ARG	NE-CZ-NH1	5.05	122.82	120.30
26	BB	29	U	C5-C6-N1	-5.05	120.18	122.70
26	BB	813	U	C4'-C3'-C2'	-5.05	97.55	102.60
26	BB	1041	G	N3-C4-N9	-5.05	122.97	126.00
26	BB	1738	G	C1'-O4'-C4'	-5.05	105.86	109.90
26	BB	2695	U	C4-C5-C6	5.05	122.73	119.70
26	BB	2715	C	C5'-C4'-O4'	5.05	115.16	109.10
1	AA	12	U	C4'-C3'-C2'	5.04	107.64	102.60
1	AA	231	U	C4-C5-C6	5.04	122.73	119.70
1	AA	680	C	C2-N3-C4	5.04	122.42	119.90
1	AA	863	U	O4'-C1'-N1	5.04	112.24	108.20
1	AA	1043	G	C1'-O4'-C4'	-5.04	105.86	109.90
1	AA	1186	G	N3-C2-N2	5.04	123.43	119.90
1	AA	1438	G	O4'-C1'-C2'	-5.04	100.75	105.80
1	AA	1520	C	C1'-O4'-C4'	-5.04	105.86	109.90
26	BB	1160	G	C6-C5-N7	-5.04	127.37	130.40
26	BB	1237	A	C5'-C4'-C3'	-5.04	107.93	116.00
26	BB	1267	U	C5-C4-O4	-5.04	122.87	125.90
26	BB	1721	G	C2-N3-C4	5.04	114.42	111.90
26	BB	1799	G	C5-C6-O6	-5.04	125.57	128.60
26	BB	1909	C	N3-C2-O2	-5.04	118.37	121.90
26	BB	1938	A	N9-C4-C5	5.04	107.82	105.80
28	BD	235	GLU	OE1-CD-OE2	5.04	129.35	123.30
42	BR	83	ILE	CA-CB-CG2	5.04	120.99	110.90
1	AA	191	G	N3-C2-N2	-5.04	116.37	119.90
1	AA	385	C	C4'-C3'-C2'	-5.04	97.56	102.60
1	AA	955	U	N1-C2-N3	5.04	117.93	114.90
1	AA	1241	G	N1-C6-O6	-5.04	116.87	119.90
26	BB	248	G	N9-C4-C5	5.04	107.42	105.40
26	BB	285	G	C3'-C2'-C1'	-5.04	97.47	101.50
26	BB	637	A	C5'-C4'-C3'	-5.04	107.93	116.00
26	BB	663	G	N7-C8-N9	5.04	115.62	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	793	A	C4'-C3'-C2'	-5.04	97.56	102.60
26	BB	842	U	C5-C6-N1	-5.04	120.18	122.70
26	BB	877	A	P-O3'-C3'	5.04	125.75	119.70
26	BB	1113	U	C1'-O4'-C4'	-5.04	105.86	109.90
26	BB	1137	G	C6-C5-N7	-5.04	127.37	130.40
26	BB	1186	G	C3'-C2'-C1'	5.04	105.53	101.50
26	BB	1381	G	C8-N9-C4	-5.04	104.38	106.40
26	BB	1408	G	C8-N9-C1'	5.04	133.56	127.00
26	BB	2226	C	C4'-C3'-C2'	-5.04	97.56	102.60
26	BB	2299	U	N3-C4-O4	5.04	122.93	119.40
26	BB	2327	A	N3-C4-N9	5.04	131.44	127.40
26	BB	2444	G	C8-N9-C1'	5.04	133.56	127.00
26	BB	2530	A	P-O3'-C3'	5.04	125.75	119.70
26	BB	2690	U	N1-C2-N3	-5.04	111.87	114.90
1	AA	422	C	P-O3'-C3'	5.04	125.75	119.70
1	AA	487	A	C5-N7-C8	5.04	106.42	103.90
1	AA	629	A	N1-C6-N6	-5.04	115.58	118.60
1	AA	711	G	O4'-C1'-N9	5.04	112.23	108.20
1	AA	791	G	C2-N3-C4	5.04	114.42	111.90
1	AA	831	A	C6-C5-N7	5.04	135.83	132.30
1	AA	882	C	C3'-C2'-C1'	5.04	105.53	101.50
26	BB	19	A	C6-N1-C2	5.04	121.62	118.60
26	BB	213	A	P-O3'-C3'	5.04	125.75	119.70
26	BB	251	A	O5'-P-OP2	-5.04	101.16	105.70
26	BB	598	U	P-O3'-C3'	5.04	125.75	119.70
26	BB	614	A	C5'-C4'-C3'	-5.04	107.93	116.00
26	BB	1590	A	N9-C4-C5	5.04	107.82	105.80
26	BB	1831	G	C4-C5-C6	5.04	121.83	118.80
26	BB	2070	A	P-O3'-C3'	5.04	125.75	119.70
26	BB	2154	A	C5-C6-N1	5.04	120.22	117.70
26	BB	2357	G	O4'-C1'-N9	5.04	112.23	108.20
26	BB	2419	U	N1-C2-N3	5.04	117.92	114.90
26	BB	2463	C	N1-C2-N3	5.04	122.73	119.20
26	BB	2493	U	C4-C5-C6	5.04	122.72	119.70
26	BB	2682	A	C4'-C3'-O3'	5.04	123.08	113.00
30	BF	152	GLU	OE1-CD-OE2	5.04	129.35	123.30
1	AA	69	G	N7-C8-N9	5.04	115.62	113.10
1	AA	202	G	N9-C1'-C2'	-5.04	106.46	112.00
1	AA	244	U	N3-C4-C5	-5.04	111.58	114.60
1	AA	870	U	C6-N1-C2	-5.04	117.98	121.00
2	AB	22	G	C5-C6-O6	5.04	131.62	128.60
26	BB	263	G	N7-C8-N9	5.04	115.62	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	611	C	C4-C5-C6	5.04	119.92	117.40
26	BB	1231	U	C3'-C2'-C1'	5.04	105.53	101.50
26	BB	1506	U	P-O3'-C3'	5.04	125.75	119.70
26	BB	1575	C	C4'-C3'-C2'	-5.04	97.56	102.60
26	BB	2690	U	C5-C6-N1	-5.04	120.18	122.70
1	AA	62	U	C5'-C4'-O4'	5.04	115.14	109.10
1	AA	102	G	C2-N3-C4	5.04	114.42	111.90
1	AA	239	U	C5'-C4'-O4'	5.04	115.15	109.10
1	AA	290	C	O5'-P-OP1	-5.04	101.17	105.70
1	AA	771	G	C3'-C2'-C1'	-5.04	97.47	101.50
4	AD	29	C	C4'-C3'-O3'	5.04	123.08	113.00
4	AD	36	A	N3-C4-N9	5.04	131.43	127.40
25	BA	46	A	C6-C5-N7	5.04	135.83	132.30
25	BA	81	G	N3-C4-N9	5.04	129.02	126.00
26	BB	386	G	C3'-C2'-C1'	5.04	105.53	101.50
26	BB	713	G	O4'-C1'-C2'	5.04	112.13	107.60
26	BB	1109	C	C1'-O4'-C4'	5.04	113.93	109.90
26	BB	1219	U	O4'-C1'-N1	5.04	112.23	108.20
26	BB	1500	G	O5'-P-OP2	-5.04	101.17	105.70
26	BB	1696	G	N1-C2-N2	-5.04	111.67	116.20
26	BB	1791	A	C5-N7-C8	-5.04	101.38	103.90
26	BB	1799	G	C5-N7-C8	5.04	106.82	104.30
26	BB	2080	A	N9-C4-C5	5.04	107.81	105.80
26	BB	2214	C	C1'-O4'-C4'	-5.04	105.87	109.90
26	BB	2545	G	C5-N7-C8	-5.04	101.78	104.30
32	BH	2	ARG	CB-CG-CD	5.04	124.70	111.60
1	AA	610	U	C1'-O4'-C4'	-5.04	105.87	109.90
1	AA	728	A	C6-C5-N7	-5.04	128.77	132.30
1	AA	1064	G	N3-C4-N9	5.04	129.02	126.00
1	AA	1118	U	O5'-C5'-C4'	5.04	121.27	111.70
1	AA	1530	G	N3-C2-N2	-5.04	116.37	119.90
26	BB	1006	C	N1-C2-O2	5.04	121.92	118.90
26	BB	1972	G	N3-C4-C5	-5.04	126.08	128.60
26	BB	2272	U	C5'-C4'-C3'	-5.04	107.94	116.00
26	BB	2782	G	C5-C6-O6	-5.04	125.58	128.60
1	AA	92	U	O4'-C1'-N1	5.04	112.23	108.20
1	AA	308	C	C6-N1-C2	5.04	122.31	120.30
1	AA	532	A	C4-C5-N7	5.04	113.22	110.70
1	AA	771	G	C8-N9-C1'	5.04	133.55	127.00
1	AA	815	A	N3-C4-C5	-5.04	123.28	126.80
1	AA	919	A	C2-N3-C4	-5.04	108.08	110.60
1	AA	1008	U	C4-C5-C6	5.04	122.72	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1515	G	C6-C5-N7	-5.04	127.38	130.40
4	AD	13	C	N3-C4-N4	5.04	121.53	118.00
11	AK	2	MET	CA-CB-CG	-5.04	104.74	113.30
26	BB	185	G	C5-C6-N1	5.04	114.02	111.50
26	BB	730	A	N3-C4-C5	-5.04	123.28	126.80
26	BB	1284	A	C1'-O4'-C4'	-5.04	105.87	109.90
26	BB	1295	C	O4'-C1'-C2'	-5.04	100.76	105.80
26	BB	1421	G	C8-N9-C4	-5.04	104.39	106.40
26	BB	2387	U	C5'-C4'-O4'	5.04	115.14	109.10
26	BB	2509	G	O4'-C1'-C2'	-5.04	100.76	105.80
26	BB	2803	G	C1'-O4'-C4'	-5.04	105.87	109.90
45	BU	56	ALA	N-CA-CB	-5.04	103.05	110.10
47	BW	14	THR	CA-CB-OG1	5.04	119.57	109.00
1	AA	2	A	C5-C6-N6	-5.03	119.67	123.70
1	AA	23	C	O4'-C1'-N1	5.03	112.23	108.20
1	AA	416	G	C6-N1-C2	-5.03	122.08	125.10
1	AA	724	G	N3-C2-N2	-5.03	116.38	119.90
1	AA	885	G	C4-C5-N7	-5.03	108.79	110.80
7	AG	74	TYR	CB-CG-CD1	-5.03	117.98	121.00
26	BB	59	U	C4-C5-C6	5.03	122.72	119.70
26	BB	135	U	O4'-C1'-C2'	5.03	112.13	107.60
26	BB	233	A	N9-C4-C5	5.03	107.81	105.80
26	BB	620	G	O4'-C4'-C3'	5.03	110.13	106.10
26	BB	642	U	N3-C4-O4	5.03	122.92	119.40
26	BB	795	C	N1-C2-N3	-5.03	115.68	119.20
26	BB	1642	G	C5-C6-O6	5.03	131.62	128.60
26	BB	2070	A	C4-C5-N7	-5.03	108.18	110.70
26	BB	2277	G	N3-C2-N2	-5.03	116.38	119.90
26	BB	2444	G	C4-N9-C1'	-5.03	119.96	126.50
26	BB	2550	G	C3'-C2'-C1'	-5.03	97.47	101.50
26	BB	2835	A	N7-C8-N9	5.03	116.32	113.80
26	BB	2860	A	C5'-C4'-C3'	5.03	124.05	116.00
46	BV	95	PHE	CB-CG-CD2	-5.03	117.28	120.80
1	AA	97	G	N1-C2-N2	5.03	120.73	116.20
26	BB	509	C	C5'-C4'-O4'	5.03	115.14	109.10
26	BB	915	C	C2-N3-C4	5.03	122.42	119.90
26	BB	1100	C	C2-N3-C4	-5.03	117.38	119.90
26	BB	1147	A	N1-C2-N3	5.03	131.82	129.30
26	BB	1664	A	C4-C5-C6	-5.03	114.48	117.00
26	BB	2132	U	C3'-C2'-C1'	-5.03	97.47	101.50
26	BB	2567	G	C3'-C2'-C1'	-5.03	97.47	101.50
1	AA	201	G	N3-C4-N9	5.03	129.02	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	293	G	O4'-C1'-N9	5.03	112.22	108.20
1	AA	389	A	C5-C6-N1	5.03	120.22	117.70
1	AA	582	C	N3-C4-N4	5.03	121.52	118.00
1	AA	666	G	N1-C6-O6	5.03	122.92	119.90
1	AA	944	G	C2'-C3'-O3'	5.03	121.75	113.70
1	AA	1112	C	O4'-C4'-C3'	-5.03	98.97	104.00
1	AA	1288	A	OP1-P-O3'	5.03	116.27	105.20
1	AA	1346	A	C1'-O4'-C4'	-5.03	105.88	109.90
2	AB	31	U	N3-C4-O4	5.03	122.92	119.40
4	AD	53	G	C5-N7-C8	5.03	106.81	104.30
12	AL	123	ARG	CA-CB-CG	5.03	124.47	113.40
26	BB	410	G	C3'-C2'-C1'	-5.03	97.47	101.50
26	BB	503	A	N1-C2-N3	-5.03	126.78	129.30
26	BB	570	G	C5-N7-C8	-5.03	101.78	104.30
26	BB	714	U	C5'-C4'-C3'	-5.03	107.95	116.00
26	BB	923	G	N9-C4-C5	5.03	107.41	105.40
26	BB	1089	A	N9-C1'-C2'	-5.03	106.47	112.00
26	BB	1844	C	C3'-C2'-C1'	-5.03	97.48	101.50
26	BB	1976	U	C1'-O4'-C4'	5.03	113.92	109.90
26	BB	2136	G	C5-C6-N1	-5.03	108.98	111.50
26	BB	2558	C	C6-N1-C1'	5.03	126.84	120.80
26	BB	2625	G	N7-C8-N9	5.03	115.62	113.10
26	BB	2758	A	C8-N9-C4	-5.03	103.79	105.80
48	BX	57	TYR	CB-CA-C	-5.03	100.34	110.40
1	AA	677	U	C6-N1-C2	-5.03	117.98	121.00
1	AA	1271	A	C6-C5-N7	-5.03	128.78	132.30
2	AB	24	G	N7-C8-N9	5.03	115.61	113.10
5	AE	51	GLU	OE1-CD-OE2	5.03	129.34	123.30
26	BB	1025	G	C5-C6-O6	-5.03	125.58	128.60
26	BB	1127	A	O4'-C4'-C3'	5.03	110.12	106.10
26	BB	2748	A	C5'-C4'-O4'	5.03	115.14	109.10
26	BB	2881	U	N1-C2-N3	5.03	117.92	114.90
1	AA	51	A	N3-C4-N9	-5.03	123.38	127.40
1	AA	392	C	N1-C2-O2	-5.03	115.88	118.90
1	AA	730	G	C4-C5-C6	5.03	121.82	118.80
1	AA	938	A	C5'-C4'-O4'	5.03	115.13	109.10
1	AA	1230	C	C5'-C4'-C3'	-5.03	107.96	116.00
2	AB	27	C	C2-N3-C4	5.03	122.41	119.90
4	AD	27	G	N7-C8-N9	5.03	115.61	113.10
22	AV	6	LYS	N-CA-CB	-5.03	101.55	110.60
26	BB	45	G	O4'-C1'-N9	-5.03	104.18	108.20
26	BB	508	A	C5'-C4'-O4'	5.03	115.13	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	620	G	N1-C2-N2	5.03	120.72	116.20
26	BB	683	U	C2-N3-C4	5.03	130.02	127.00
26	BB	768	G	C2-N3-C4	5.03	114.41	111.90
26	BB	812	C	N1-C2-O2	-5.03	115.88	118.90
26	BB	899	A	C4-C5-N7	-5.03	108.19	110.70
26	BB	1146	C	OP1-P-OP2	5.03	127.14	119.60
26	BB	1256	G	C5-N7-C8	-5.03	101.79	104.30
26	BB	1392	A	C5'-C4'-C3'	-5.03	107.96	116.00
26	BB	1414	C	C5-C6-N1	5.03	123.51	121.00
26	BB	1717	A	C4-C5-C6	5.03	119.51	117.00
26	BB	1953	A	C6-N1-C2	5.03	121.62	118.60
26	BB	2243	U	C2-N3-C4	-5.03	123.98	127.00
26	BB	2442	C	N3-C4-C5	5.03	123.91	121.90
26	BB	2515	C	P-O5'-C5'	5.03	128.94	120.90
26	BB	2597	G	C6-C5-N7	-5.03	127.38	130.40
26	BB	2733	A	C4-C5-N7	5.03	113.21	110.70
30	BF	33	VAL	CG1-CB-CG2	-5.03	102.86	110.90
1	AA	81	A	C3'-C2'-C1'	-5.03	97.48	101.50
1	AA	361	G	C5-N7-C8	5.03	106.81	104.30
1	AA	555	U	C6-N1-C2	-5.03	117.98	121.00
1	AA	665	A	C8-N9-C4	-5.03	103.79	105.80
1	AA	742	G	C4-C5-N7	-5.03	108.79	110.80
1	AA	893	C	C5'-C4'-O4'	5.03	115.13	109.10
1	AA	1108	G	O4'-C1'-C2'	-5.03	100.77	105.80
1	AA	1204	A	N1-C6-N6	-5.03	115.58	118.60
1	AA	1293	C	N3-C4-C5	-5.03	119.89	121.90
1	AA	1540	U	P-O3'-C3'	5.03	125.73	119.70
4	AD	18	U	O4'-C1'-N1	5.03	112.22	108.20
9	AI	70	VAL	CA-CB-CG1	5.03	118.44	110.90
26	BB	35	G	O4'-C1'-N9	5.03	112.22	108.20
26	BB	169	G	C2'-C3'-O3'	5.03	121.74	113.70
26	BB	253	C	C5-C4-N4	5.03	123.72	120.20
26	BB	465	G	N7-C8-N9	5.03	115.61	113.10
26	BB	499	U	N3-C4-C5	-5.03	111.58	114.60
26	BB	852	U	C6-N1-C2	5.03	124.02	121.00
26	BB	1222	U	C1'-O4'-C4'	5.03	113.92	109.90
26	BB	1289	C	O4'-C1'-C2'	-5.03	100.78	105.80
26	BB	1291	C	N1-C2-O2	5.03	121.92	118.90
26	BB	1524	G	C5'-C4'-C3'	-5.03	107.96	116.00
26	BB	1779	U	P-O5'-C5'	5.03	128.94	120.90
26	BB	1937	A	C4-C5-C6	-5.03	114.49	117.00
26	BB	2079	U	N1-C2-O2	-5.03	119.28	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2304	G	P-O3'-C3'	5.03	125.73	119.70
26	BB	2628	C	C5-C6-N1	-5.03	118.49	121.00
26	BB	2801	G	N3-C4-C5	-5.03	126.09	128.60
37	BM	107	LEU	CB-CA-C	5.03	119.75	110.20
1	AA	39	G	C5-N7-C8	-5.02	101.79	104.30
1	AA	71	A	C4'-C3'-C2'	-5.02	97.58	102.60
1	AA	379	C	C6-N1-C2	-5.02	118.29	120.30
1	AA	1011	C	N3-C4-C5	5.02	123.91	121.90
1	AA	1059	C	O4'-C4'-C3'	5.02	110.12	106.10
20	AT	61	ARG	NE-CZ-NH2	-5.02	117.79	120.30
26	BB	297	G	C5-C6-O6	-5.02	125.59	128.60
26	BB	404	A	C4-C5-C6	-5.02	114.49	117.00
26	BB	432	A	N7-C8-N9	5.02	116.31	113.80
26	BB	741	U	C5-C4-O4	-5.02	122.89	125.90
26	BB	850	U	C5'-C4'-O4'	-5.02	103.07	109.10
26	BB	1956	U	C4-C5-C6	5.02	122.72	119.70
27	BC	63	THR	CA-CB-CG2	5.02	119.43	112.40
1	AA	58	C	O5'-C5'-C4'	5.02	121.24	111.70
1	AA	223	A	C4-C5-N7	5.02	113.21	110.70
1	AA	338	A	C5-C6-N1	5.02	120.21	117.70
1	AA	457	G	C1'-O4'-C4'	5.02	113.92	109.90
1	AA	777	A	C5-C6-N1	-5.02	115.19	117.70
1	AA	783	C	N1-C1'-C2'	-5.02	106.48	112.00
1	AA	845	A	C3'-C2'-C1'	5.02	105.52	101.50
1	AA	1073	U	C4'-C3'-C2'	-5.02	97.58	102.60
1	AA	1218	C	N1-C2-O2	-5.02	115.89	118.90
1	AA	1423	G	O4'-C1'-N9	5.02	112.22	108.20
2	AB	31	U	O4'-C1'-N1	5.02	112.22	108.20
26	BB	717	C	N3-C2-O2	-5.02	118.39	121.90
26	BB	771	G	C2-N3-C4	5.02	114.41	111.90
26	BB	1270	C	C4'-C3'-C2'	-5.02	97.58	102.60
26	BB	1276	A	C6-N1-C2	5.02	121.61	118.60
26	BB	1465	G	C4-C5-C6	5.02	121.81	118.80
26	BB	1983	G	C4-C5-N7	5.02	112.81	110.80
26	BB	2058	A	C5'-C4'-O4'	5.02	115.13	109.10
26	BB	2123	G	C5'-C4'-C3'	5.02	124.04	116.00
26	BB	2227	A	N3-C4-C5	5.02	130.32	126.80
26	BB	2393	U	C2'-C3'-O3'	5.02	121.74	113.70
26	BB	2424	C	C5-C6-N1	5.02	123.51	121.00
26	BB	2796	U	P-O3'-C3'	5.02	125.73	119.70
1	AA	303	A	N9-C1'-C2'	-5.02	106.48	112.00
1	AA	852	G	N9-C1'-C2'	-5.02	106.48	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1300	G	N3-C4-C5	-5.02	126.09	128.60
3	AC	35	G	C4-C5-N7	-5.02	108.79	110.80
25	BA	83	G	C6-N1-C2	-5.02	122.09	125.10
26	BB	68	G	N7-C8-N9	5.02	115.61	113.10
26	BB	187	G	C6-N1-C2	-5.02	122.09	125.10
26	BB	191	A	N3-C4-C5	-5.02	123.28	126.80
26	BB	763	G	N3-C4-C5	-5.02	126.09	128.60
26	BB	857	G	C5'-C4'-O4'	5.02	115.12	109.10
26	BB	884	U	C5'-C4'-C3'	-5.02	107.97	116.00
26	BB	1010	A	N1-C6-N6	-5.02	115.59	118.60
38	BN	112	LEU	CB-CG-CD1	5.02	119.53	111.00
40	BP	12	ARG	NH1-CZ-NH2	-5.02	113.88	119.40
1	AA	338	A	C2-N3-C4	5.02	113.11	110.60
1	AA	1203	C	C4-C5-C6	5.02	119.91	117.40
1	AA	1255	G	O4'-C1'-N9	5.02	112.22	108.20
1	AA	1465	A	C5'-C4'-O4'	-5.02	103.08	109.10
26	BB	26	G	C5-C6-O6	-5.02	125.59	128.60
26	BB	45	G	C5-C6-N1	5.02	114.01	111.50
26	BB	151	C	C4-C5-C6	5.02	119.91	117.40
26	BB	560	C	C5-C6-N1	-5.02	118.49	121.00
26	BB	675	A	O4'-C1'-N9	-5.02	104.18	108.20
26	BB	1278	C	N3-C4-C5	-5.02	119.89	121.90
26	BB	1421	G	N1-C2-N3	-5.02	120.89	123.90
26	BB	1557	C	C2-N3-C4	5.02	122.41	119.90
26	BB	1764	C	N3-C2-O2	-5.02	118.39	121.90
26	BB	1908	C	C6-N1-C1'	-5.02	114.78	120.80
26	BB	2067	G	C1'-O4'-C4'	-5.02	105.88	109.90
1	AA	141	G	O4'-C1'-C2'	-5.02	100.78	105.80
1	AA	149	A	N9-C1'-C2'	-5.02	106.48	112.00
1	AA	219	U	N1-C1'-C2'	-5.02	106.48	112.00
1	AA	446	G	N3-C4-C5	-5.02	126.09	128.60
1	AA	702	A	C6-N1-C2	-5.02	115.59	118.60
1	AA	1194	U	O4'-C1'-N1	5.02	112.22	108.20
13	AM	60	ASP	CB-CG-OD1	5.02	122.81	118.30
26	BB	157	C	C5-C4-N4	-5.02	116.69	120.20
26	BB	381	G	N3-C4-C5	-5.02	126.09	128.60
26	BB	553	G	C5-C6-O6	-5.02	125.59	128.60
26	BB	637	A	C4'-C3'-C2'	-5.02	97.58	102.60
26	BB	839	U	P-O3'-C3'	5.02	125.72	119.70
26	BB	960	A	O4'-C1'-N9	5.02	112.22	108.20
26	BB	1134	A	C6-N1-C2	-5.02	115.59	118.60
26	BB	1723	G	C8-N9-C1'	5.02	133.52	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1748	C	C4'-C3'-C2'	-5.02	97.58	102.60
26	BB	1753	G	C4-C5-C6	5.02	121.81	118.80
26	BB	1932	A	C1'-O4'-C4'	-5.02	105.89	109.90
26	BB	2222	C	C1'-O4'-C4'	5.02	113.91	109.90
26	BB	2302	U	P-O5'-C5'	5.02	128.93	120.90
26	BB	2571	U	C6-N1-C2	-5.02	117.99	121.00
26	BB	2741	A	N3-C4-C5	-5.02	123.29	126.80
26	BB	2846	G	C1'-O4'-C4'	5.02	113.91	109.90
30	BF	16	GLU	CA-CB-CG	5.02	124.44	113.40
32	BH	53	PRO	N-CD-CG	5.02	110.72	103.20
46	BV	80	TRP	CD1-NE1-CE2	5.02	113.52	109.00
1	AA	751	U	C6-N1-C2	-5.02	117.99	121.00
1	AA	946	A	N1-C6-N6	-5.02	115.59	118.60
26	BB	148	U	C5-C4-O4	-5.02	122.89	125.90
26	BB	378	C	C2-N3-C4	5.02	122.41	119.90
26	BB	608	A	C8-N9-C4	5.02	107.81	105.80
26	BB	1847	A	N9-C1'-C2'	-5.02	106.48	112.00
26	BB	1974	C	C5-C4-N4	-5.02	116.69	120.20
26	BB	2388	A	C4-C5-C6	-5.02	114.49	117.00
30	BF	142	ALA	CB-CA-C	5.02	117.62	110.10
1	AA	375	U	N3-C4-C5	5.01	117.61	114.60
1	AA	1309	G	N1-C2-N3	-5.01	120.89	123.90
20	AT	6	THR	CA-CB-CG2	5.01	119.42	112.40
25	BA	32	U	O4'-C1'-N1	5.01	112.21	108.20
26	BB	261	G	C5-C6-N1	5.01	114.01	111.50
26	BB	585	G	C5-N7-C8	-5.01	101.79	104.30
26	BB	639	U	N1-C2-O2	-5.01	119.29	122.80
26	BB	1067	A	C8-N9-C4	-5.01	103.79	105.80
26	BB	1186	G	N7-C8-N9	5.01	115.61	113.10
26	BB	1261	C	N1-C2-O2	-5.01	115.89	118.90
26	BB	1398	C	O4'-C4'-C3'	5.01	110.11	106.10
26	BB	1596	A	C8-N9-C4	-5.01	103.79	105.80
26	BB	1604	C	N3-C4-C5	-5.01	119.89	121.90
26	BB	1941	C	O4'-C1'-N1	5.01	112.21	108.20
26	BB	2457	PSU	P-O3'-C3'	5.01	125.72	119.70
46	BV	25	GLU	O-C-N	5.01	130.72	122.70
1	AA	1202	U	C4-C5-C6	5.01	122.71	119.70
1	AA	1212	U	C5-C6-N1	5.01	125.21	122.70
25	BA	2	G	C5'-C4'-O4'	5.01	115.11	109.10
26	BB	638	G	N3-C2-N2	-5.01	116.39	119.90
26	BB	806	C	N1-C2-N3	-5.01	115.69	119.20
26	BB	1184	U	N1-C2-O2	-5.01	119.29	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1354	A	C4'-C3'-C2'	-5.01	97.59	102.60
26	BB	1581	G	N1-C2-N2	5.01	120.71	116.20
26	BB	2029	G	C6-C5-N7	-5.01	127.39	130.40
26	BB	2056	G	N7-C8-N9	5.01	115.61	113.10
39	BO	10	ARG	CA-CB-CG	5.01	124.43	113.40
1	AA	109	A	C5'-C4'-C3'	-5.01	107.98	116.00
1	AA	236	A	C4'-C3'-O3'	5.01	123.02	113.00
1	AA	1193	G	C5'-C4'-O4'	5.01	115.11	109.10
1	AA	1267	C	N3-C4-N4	-5.01	114.49	118.00
1	AA	1336	C	O4'-C4'-C3'	5.01	110.11	106.10
4	AD	75	C	C6-N1-C1'	5.01	126.81	120.80
26	BB	468	G	C4-N9-C1'	-5.01	119.98	126.50
26	BB	536	G	N9-C4-C5	5.01	107.41	105.40
26	BB	731	C	N3-C4-C5	5.01	123.90	121.90
26	BB	839	U	N3-C4-C5	-5.01	111.59	114.60
26	BB	1186	G	N3-C4-C5	-5.01	126.09	128.60
26	BB	1259	G	C6-N1-C2	-5.01	122.09	125.10
26	BB	1744	A	C8-N9-C1'	5.01	136.72	127.70
26	BB	2081	U	C6-N1-C2	-5.01	117.99	121.00
26	BB	2083	G	C3'-C2'-C1'	5.01	105.51	101.50
26	BB	2205	A	N3-C4-N9	-5.01	123.39	127.40
26	BB	2394	C	P-O5'-C5'	5.01	128.92	120.90
35	BK	129	GLU	OE1-CD-OE2	5.01	129.31	123.30
1	AA	184	G	C5'-C4'-O4'	5.01	115.11	109.10
1	AA	227	G	C6-C5-N7	5.01	133.41	130.40
1	AA	267	C	N3-C2-O2	-5.01	118.39	121.90
1	AA	329	A	C5-C6-N1	-5.01	115.19	117.70
1	AA	782	A	OP1-P-OP2	-5.01	112.09	119.60
1	AA	880	C	N1-C2-O2	5.01	121.91	118.90
1	AA	909	A	C5'-C4'-O4'	5.01	115.11	109.10
1	AA	913	A	N1-C2-N3	5.01	131.81	129.30
1	AA	1345	U	O4'-C4'-C3'	5.01	110.11	106.10
1	AA	1417	G	N1-C2-N3	-5.01	120.89	123.90
12	AL	123	ARG	NE-CZ-NH2	5.01	122.81	120.30
26	BB	301	G	O4'-C4'-C3'	5.01	110.11	106.10
26	BB	498	G	N9-C1'-C2'	-5.01	106.49	112.00
26	BB	1019	U	N3-C4-O4	5.01	122.91	119.40
26	BB	1117	C	N3-C4-C5	-5.01	119.90	121.90
26	BB	1292	G	O4'-C1'-C2'	-5.01	100.79	105.80
26	BB	1304	A	O4'-C1'-C2'	5.01	112.11	107.60
26	BB	1408	G	C4'-C3'-C2'	-5.01	97.59	102.60
26	BB	1718	G	O4'-C1'-C2'	5.01	112.11	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2330	G	C5-N7-C8	-5.01	101.80	104.30
26	BB	2367	G	C8-N9-C1'	5.01	133.51	127.00
26	BB	2459	A	N1-C6-N6	5.01	121.61	118.60
26	BB	2533	U	C5'-C4'-C3'	-5.01	107.99	116.00
26	BB	2538	C	O4'-C1'-N1	5.01	112.21	108.20
26	BB	2611	C	C5'-C4'-C3'	-5.01	107.99	116.00
26	BB	2709	G	C5-C6-N1	5.01	114.00	111.50
40	BP	60	VAL	CA-CB-CG1	5.01	118.42	110.90
43	BS	67	ALA	CB-CA-C	5.01	117.62	110.10
1	AA	546	A	N9-C1'-C2'	-5.01	106.49	112.00
1	AA	743	A	C4'-C3'-C2'	-5.01	97.59	102.60
1	AA	1257	A	N3-C4-N9	5.01	131.41	127.40
26	BB	68	G	C6-C5-N7	5.01	133.41	130.40
26	BB	379	G	C5-C6-N1	5.01	114.00	111.50
26	BB	1131	G	C3'-C2'-C1'	-5.01	97.49	101.50
26	BB	2156	G	N1-C2-N2	5.01	120.71	116.20
26	BB	2369	A	C5-N7-C8	-5.01	101.40	103.90
26	BB	2542	A	C3'-C2'-C1'	5.01	105.51	101.50
32	BH	113	ASP	CB-CG-OD2	-5.01	113.79	118.30
49	BY	13	ARG	NH1-CZ-NH2	-5.01	113.89	119.40
1	AA	68	G	N3-C2-N2	-5.01	116.40	119.90
1	AA	367	U	N1-C1'-C2'	5.01	120.51	114.00
1	AA	1198	G	C8-N9-C4	-5.01	104.40	106.40
1	AA	1200	C	C3'-C2'-C1'	5.01	105.51	101.50
1	AA	1286	U	C5'-C4'-C3'	-5.01	107.99	116.00
1	AA	1368	A	O5'-C5'-C4'	5.01	121.21	111.70
4	AD	49	C	P-O5'-C5'	5.01	128.91	120.90
26	BB	10	A	C8-N9-C4	5.01	107.80	105.80
26	BB	273	G	N1-C2-N3	-5.01	120.90	123.90
26	BB	320	A	N1-C6-N6	-5.01	115.60	118.60
26	BB	413	C	C4'-C3'-C2'	-5.01	97.59	102.60
26	BB	551	G	C6-N1-C2	-5.01	122.10	125.10
26	BB	795	C	N3-C2-O2	5.01	125.40	121.90
26	BB	897	C	C4-C5-C6	-5.01	114.90	117.40
26	BB	1010	A	C5'-C4'-O4'	5.01	115.11	109.10
26	BB	1027	A	C5-C6-N1	-5.01	115.20	117.70
26	BB	1200	C	N1-C2-O2	5.01	121.90	118.90
26	BB	1274	A	C5-C6-N1	5.01	120.20	117.70
26	BB	1538	G	O5'-C5'-C4'	-5.01	102.19	111.70
26	BB	1609	A	N1-C2-N3	-5.01	126.80	129.30
26	BB	2557	G	C6-N1-C2	-5.01	122.10	125.10
26	BB	2728	U	C4'-C3'-C2'	-5.01	97.59	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2882	A	C1'-O4'-C4'	-5.01	105.89	109.90
26	BB	2892	G	P-O3'-C3'	5.01	125.71	119.70
1	AA	740	U	O4'-C1'-N1	5.00	112.20	108.20
1	AA	1136	C	O4'-C1'-C2'	-5.00	100.80	105.80
2	AB	64	U	N1-C1'-C2'	5.00	120.51	114.00
25	BA	46	A	N1-C2-N3	-5.00	126.80	129.30
25	BA	57	A	N3-C4-C5	-5.00	123.30	126.80
26	BB	344	A	N9-C1'-C2'	-5.00	106.49	112.00
26	BB	1107	G	C5'-C4'-O4'	5.00	115.11	109.10
26	BB	1643	G	C4-C5-N7	5.00	112.80	110.80
26	BB	1953	A	P-O3'-C3'	5.00	125.71	119.70
26	BB	2635	A	C5'-C4'-C3'	5.00	124.01	116.00
26	BB	2874	C	C6-N1-C2	-5.00	118.30	120.30
43	BS	8	ILE	CA-CB-CG1	5.00	120.51	111.00
1	AA	12	U	N1-C2-O2	-5.00	119.30	122.80
1	AA	126	G	C6-C5-N7	-5.00	127.40	130.40
1	AA	384	G	O3'-P-O5'	-5.00	94.49	104.00
1	AA	664	G	N3-C4-C5	-5.00	126.10	128.60
1	AA	689	C	N3-C4-N4	-5.00	114.50	118.00
1	AA	780	A	C5-N7-C8	5.00	106.40	103.90
1	AA	797	C	C4-C5-C6	5.00	119.90	117.40
1	AA	1014	A	N7-C8-N9	5.00	116.30	113.80
1	AA	1222	G	O5'-C5'-C4'	5.00	121.20	111.70
1	AA	1316	G	O5'-C5'-C4'	5.00	121.21	111.70
1	AA	1441	A	C5'-C4'-C3'	-5.00	107.99	116.00
4	AD	12	G	C6-N1-C2	-5.00	122.10	125.10
25	BA	9	G	N3-C4-N9	-5.00	123.00	126.00
26	BB	322	A	C4'-C3'-C2'	5.00	107.60	102.60
26	BB	417	C	O4'-C1'-N1	5.00	112.20	108.20
26	BB	569	U	N3-C2-O2	5.00	125.70	122.20
26	BB	728	G	C5'-C4'-O4'	5.00	115.11	109.10
26	BB	921	C	O4'-C1'-N1	5.00	112.20	108.20
26	BB	1245	G	N3-C2-N2	-5.00	116.40	119.90
26	BB	1296	G	N1-C2-N2	-5.00	111.70	116.20
26	BB	1672	A	C4'-C3'-O3'	5.00	123.01	113.00
26	BB	1814	G	C3'-C2'-C1'	5.00	105.50	101.50
26	BB	1985	C	O5'-C5'-C4'	5.00	121.21	111.70
26	BB	2168	G	N1-C2-N2	-5.00	111.70	116.20
26	BB	2525	G	C4-N9-C1'	-5.00	120.00	126.50
26	BB	2561	U	N3-C4-O4	5.00	122.90	119.40
1	AA	146	G	N3-C4-N9	5.00	129.00	126.00
1	AA	194	C	C3'-C2'-C1'	-5.00	97.50	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	483	C	C2-N3-C4	5.00	122.40	119.90
1	AA	1224	U	C5'-C4'-C3'	-5.00	108.00	116.00
21	AU	56	ARG	NE-CZ-NH1	5.00	122.80	120.30
23	AW	65	LEU	CB-CG-CD1	-5.00	102.50	111.00
26	BB	176	A	C5-C6-N6	-5.00	119.70	123.70
26	BB	221	A	N9-C4-C5	-5.00	103.80	105.80
26	BB	518	G	C5-C6-N1	5.00	114.00	111.50
26	BB	854	C	N1-C2-N3	5.00	122.70	119.20
26	BB	1554	U	C1'-O4'-C4'	-5.00	105.90	109.90
26	BB	2045	C	C6-N1-C2	5.00	122.30	120.30
26	BB	2063	C	O4'-C4'-C3'	5.00	110.10	106.10
26	BB	2355	G	N1-C2-N2	-5.00	111.70	116.20
26	BB	2411	A	C4-C5-C6	-5.00	114.50	117.00
26	BB	2581	G	O4'-C1'-N9	5.00	112.20	108.20
26	BB	2732	G	C3'-C2'-C1'	5.00	105.50	101.50

There are no chirality outliers.

All (2959) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1	A	Sidechain
1	AA	10	A	Sidechain
1	AA	100	G	Sidechain
1	AA	1000	A	Sidechain
1	AA	1001	C	Sidechain
1	AA	1002	G	Sidechain
1	AA	1003	G	Sidechain
1	AA	1004	A	Sidechain
1	AA	1007	U	Sidechain
1	AA	1008	U	Sidechain
1	AA	1010	U	Sidechain
1	AA	1011	C	Sidechain
1	AA	1014	A	Sidechain
1	AA	102	G	Sidechain
1	AA	1021	A	Sidechain
1	AA	1022	A	Sidechain
1	AA	1023	U	Sidechain
1	AA	1024	G	Sidechain
1	AA	1025	U	Sidechain
1	AA	1026	G	Sidechain
1	AA	1030	U	Sidechain
1	AA	1033	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1035	A	Sidechain
1	AA	1036	A	Sidechain
1	AA	1037	C	Sidechain
1	AA	1039	G	Sidechain
1	AA	104	G	Sidechain
1	AA	1040	U	Sidechain
1	AA	1042	A	Sidechain
1	AA	1043	G	Sidechain
1	AA	1044	A	Sidechain
1	AA	1046	A	Sidechain
1	AA	1047	G	Sidechain
1	AA	105	G	Sidechain
1	AA	1050	G	Sidechain
1	AA	1051	C	Sidechain
1	AA	1053	G	Sidechain
1	AA	1055	A	Sidechain
1	AA	1056	U	Sidechain
1	AA	1057	G	Sidechain
1	AA	106	C	Sidechain
1	AA	1060	U	Sidechain
1	AA	1061	G	Sidechain
1	AA	1063	C	Sidechain
1	AA	1064	G	Sidechain
1	AA	1065	U	Sidechain
1	AA	1066	C	Sidechain
1	AA	1067	A	Sidechain
1	AA	1069	C	Sidechain
1	AA	107	G	Sidechain
1	AA	1070	U	Sidechain
1	AA	1071	C	Sidechain
1	AA	1072	G	Sidechain
1	AA	1073	U	Sidechain
1	AA	1074	G	Sidechain
1	AA	1076	U	Sidechain
1	AA	1077	G	Sidechain
1	AA	108	G	Sidechain
1	AA	1082	A	Sidechain
1	AA	1083	U	Sidechain
1	AA	1084	G	Sidechain
1	AA	1087	G	Sidechain
1	AA	1089	G	Sidechain
1	AA	109	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1092	A	Sidechain
1	AA	1093	A	Sidechain
1	AA	1094	G	Sidechain
1	AA	1096	C	Sidechain
1	AA	1099	G	Sidechain
1	AA	1100	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	111	G	Sidechain
1	AA	1114	C	Sidechain
1	AA	1115	U	Sidechain
1	AA	1116	U	Sidechain
1	AA	1119	C	Sidechain
1	AA	1120	C	Sidechain
1	AA	1121	U	Sidechain
1	AA	1124	G	Sidechain
1	AA	1125	U	Sidechain
1	AA	1126	U	Sidechain
1	AA	113	G	Sidechain
1	AA	1130	A	Sidechain
1	AA	1132	C	Sidechain
1	AA	1133	G	Sidechain
1	AA	1134	G	Sidechain
1	AA	1137	C	Sidechain
1	AA	1138	G	Sidechain
1	AA	1139	G	Sidechain
1	AA	114	U	Sidechain
1	AA	1141	C	Sidechain
1	AA	1143	G	Sidechain
1	AA	1145	A	Sidechain
1	AA	1148	U	Sidechain
1	AA	115	G	Sidechain
1	AA	1158	C	Sidechain
1	AA	1159	U	Sidechain
1	AA	116	A	Sidechain
1	AA	1163	A	Sidechain
1	AA	1166	G	Sidechain
1	AA	1167	A	Sidechain
1	AA	1168	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1170	A	Sidechain
1	AA	1171	A	Sidechain
1	AA	1172	C	Sidechain
1	AA	1174	G	Sidechain
1	AA	1175	G	Sidechain
1	AA	1177	G	Sidechain
1	AA	1178	G	Sidechain
1	AA	1179	A	Sidechain
1	AA	118	U	Sidechain
1	AA	1180	A	Sidechain
1	AA	1181	G	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	119	A	Sidechain
1	AA	1190	G	Sidechain
1	AA	1192	C	Sidechain
1	AA	1198	G	Sidechain
1	AA	1199	U	Sidechain
1	AA	120	A	Sidechain
1	AA	1200	C	Sidechain
1	AA	1201	A	Sidechain
1	AA	1204	A	Sidechain
1	AA	1208	C	Sidechain
1	AA	121	U	Sidechain
1	AA	1210	C	Sidechain
1	AA	1214	C	Sidechain
1	AA	1216	A	Sidechain
1	AA	1217	C	Sidechain
1	AA	1219	A	Sidechain
1	AA	122	G	Sidechain
1	AA	1221	G	Sidechain
1	AA	1222	G	Sidechain
1	AA	1223	C	Sidechain
1	AA	1224	U	Sidechain
1	AA	1225	A	Sidechain
1	AA	1227	A	Sidechain
1	AA	123	U	Sidechain
1	AA	1230	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1232	U	Sidechain
1	AA	1233	G	Sidechain
1	AA	1235	U	Sidechain
1	AA	1236	A	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	1245	C	Sidechain
1	AA	1246	A	Sidechain
1	AA	1248	A	Sidechain
1	AA	1249	C	Sidechain
1	AA	1250	A	Sidechain
1	AA	1253	G	Sidechain
1	AA	1255	G	Sidechain
1	AA	1256	A	Sidechain
1	AA	1257	A	Sidechain
1	AA	1258	G	Sidechain
1	AA	1261	A	Sidechain
1	AA	1266	G	Sidechain
1	AA	1267	C	Sidechain
1	AA	1268	G	Sidechain
1	AA	1269	A	Sidechain
1	AA	1270	G	Sidechain
1	AA	1271	A	Sidechain
1	AA	1272	G	Sidechain
1	AA	1273	C	Sidechain
1	AA	1277	C	Sidechain
1	AA	1278	G	Sidechain
1	AA	1279	G	Sidechain
1	AA	128	G	Sidechain
1	AA	1284	C	Sidechain
1	AA	1285	A	Sidechain
1	AA	1286	U	Sidechain
1	AA	1287	A	Sidechain
1	AA	1288	A	Sidechain
1	AA	1290	G	Sidechain
1	AA	1291	U	Sidechain
1	AA	1294	G	Sidechain
1	AA	1297	G	Sidechain
1	AA	1298	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1300	G	Sidechain
1	AA	1302	C	Sidechain
1	AA	1303	C	Sidechain
1	AA	1304	G	Sidechain
1	AA	1305	G	Sidechain
1	AA	1306	A	Sidechain
1	AA	1308	U	Sidechain
1	AA	1309	G	Sidechain
1	AA	1312	G	Sidechain
1	AA	1313	U	Sidechain
1	AA	1314	C	Sidechain
1	AA	1316	G	Sidechain
1	AA	1319	A	Sidechain
1	AA	132	C	Sidechain
1	AA	1321	U	Sidechain
1	AA	1322	C	Sidechain
1	AA	1323	G	Sidechain
1	AA	1326	U	Sidechain
1	AA	1327	C	Sidechain
1	AA	1328	C	Sidechain
1	AA	133	U	Sidechain
1	AA	1331	G	Sidechain
1	AA	1333	A	Sidechain
1	AA	1335	U	Sidechain
1	AA	1338	G	Sidechain
1	AA	1339	A	Sidechain
1	AA	134	G	Sidechain
1	AA	1345	U	Sidechain
1	AA	1346	A	Sidechain
1	AA	1348	U	Sidechain
1	AA	1349	A	Sidechain
1	AA	1350	A	Sidechain
1	AA	1351	U	Sidechain
1	AA	1353	G	Sidechain
1	AA	1355	G	Sidechain
1	AA	1357	A	Sidechain
1	AA	1358	U	Sidechain
1	AA	1360	A	Sidechain
1	AA	1361	G	Sidechain
1	AA	1362	A	Sidechain
1	AA	1364	U	Sidechain
1	AA	1365	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1366	C	Sidechain
1	AA	1367	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	138	G	Sidechain
1	AA	1383	C	Sidechain
1	AA	1385	G	Sidechain
1	AA	1387	G	Sidechain
1	AA	1388	C	Sidechain
1	AA	1389	C	Sidechain
1	AA	139	A	Sidechain
1	AA	1390	U	Sidechain
1	AA	1391	U	Sidechain
1	AA	1392	G	Sidechain
1	AA	1393	U	Sidechain
1	AA	1395	C	Sidechain
1	AA	1396	A	Sidechain
1	AA	1399	C	Sidechain
1	AA	14	U	Sidechain
1	AA	1400	C	Sidechain
1	AA	1403	C	Sidechain
1	AA	1405	G	Sidechain
1	AA	141	G	Sidechain
1	AA	1410	A	Sidechain
1	AA	1411	C	Sidechain
1	AA	1412	C	Sidechain
1	AA	1415	G	Sidechain
1	AA	1416	G	Sidechain
1	AA	1417	G	Sidechain
1	AA	1418	A	Sidechain
1	AA	1419	G	Sidechain
1	AA	142	G	Sidechain
1	AA	1420	U	Sidechain
1	AA	1421	G	Sidechain
1	AA	1423	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1424	U	Sidechain
1	AA	1425	U	Sidechain
1	AA	1427	C	Sidechain
1	AA	1429	A	Sidechain
1	AA	1430	A	Sidechain
1	AA	1431	A	Sidechain
1	AA	1435	G	Sidechain
1	AA	1436	U	Sidechain
1	AA	1438	G	Sidechain
1	AA	1439	G	Sidechain
1	AA	1440	U	Sidechain
1	AA	1442	G	Sidechain
1	AA	1445	U	Sidechain
1	AA	1446	A	Sidechain
1	AA	1447	A	Sidechain
1	AA	1449	C	Sidechain
1	AA	1450	U	Sidechain
1	AA	1452	C	Sidechain
1	AA	1454	G	Sidechain
1	AA	1455	G	Sidechain
1	AA	1456	A	Sidechain
1	AA	1457	G	Sidechain
1	AA	1458	G	Sidechain
1	AA	1459	G	Sidechain
1	AA	146	G	Sidechain
1	AA	1461	G	Sidechain
1	AA	1463	U	Sidechain
1	AA	1464	U	Sidechain
1	AA	1468	A	Sidechain
1	AA	1471	U	Sidechain
1	AA	1474	U	Sidechain
1	AA	1478	U	Sidechain
1	AA	1482	G	Sidechain
1	AA	1484	C	Sidechain
1	AA	1486	G	Sidechain
1	AA	1487	G	Sidechain
1	AA	1489	G	Sidechain
1	AA	1490	U	Sidechain
1	AA	1491	G	Sidechain
1	AA	1493	A	Sidechain
1	AA	1494	G	Sidechain
1	AA	1495	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1496	C	Sidechain
1	AA	1497	G	Sidechain
1	AA	1499	A	Sidechain
1	AA	15	G	Sidechain
1	AA	1502	A	Sidechain
1	AA	1504	G	Sidechain
1	AA	1506	U	Sidechain
1	AA	1507	A	Sidechain
1	AA	1508	A	Sidechain
1	AA	1509	C	Sidechain
1	AA	1511	G	Sidechain
1	AA	1512	U	Sidechain
1	AA	1513	A	Sidechain
1	AA	1514	G	Sidechain
1	AA	1517	G	Sidechain
1	AA	152	A	Sidechain
1	AA	1520	C	Sidechain
1	AA	1523	G	Sidechain
1	AA	1524	C	Sidechain
1	AA	1525	G	Sidechain
1	AA	1526	G	Sidechain
1	AA	1528	U	Sidechain
1	AA	1529	G	Sidechain
1	AA	1530	G	Sidechain
1	AA	1531	A	Sidechain
1	AA	1532	U	Sidechain
1	AA	1533	C	Sidechain
1	AA	1535	C	Sidechain
1	AA	1537	U	Sidechain
1	AA	1539	C	Sidechain
1	AA	158	G	Sidechain
1	AA	16	A	Sidechain
1	AA	163	C	Sidechain
1	AA	164	G	Sidechain
1	AA	165	G	Sidechain
1	AA	168	G	Sidechain
1	AA	169	C	Sidechain
1	AA	172	A	Sidechain
1	AA	176	C	Sidechain
1	AA	177	G	Sidechain
1	AA	178	C	Sidechain
1	AA	179	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	182	A	Sidechain
1	AA	183	C	Sidechain
1	AA	184	G	Sidechain
1	AA	185	U	Sidechain
1	AA	186	C	Sidechain
1	AA	187	G	Sidechain
1	AA	188	C	Sidechain
1	AA	191	G	Sidechain
1	AA	193	C	Sidechain
1	AA	195	A	Sidechain
1	AA	196	A	Sidechain
1	AA	197	A	Sidechain
1	AA	198	G	Sidechain
1	AA	2	A	Sidechain
1	AA	200	G	Sidechain
1	AA	202	G	Sidechain
1	AA	203	G	Sidechain
1	AA	204	G	Sidechain
1	AA	205	A	Sidechain
1	AA	207	C	Sidechain
1	AA	208	U	Sidechain
1	AA	21	G	Sidechain
1	AA	211	G	Sidechain
1	AA	212	G	Sidechain
1	AA	215	C	Sidechain
1	AA	216	U	Sidechain
1	AA	218	U	Sidechain
1	AA	219	U	Sidechain
1	AA	22	G	Sidechain
1	AA	220	G	Sidechain
1	AA	222	C	Sidechain
1	AA	223	A	Sidechain
1	AA	224	U	Sidechain
1	AA	225	C	Sidechain
1	AA	226	G	Sidechain
1	AA	227	G	Sidechain
1	AA	228	A	Sidechain
1	AA	229	U	Sidechain
1	AA	230	G	Sidechain
1	AA	231	U	Sidechain
1	AA	232	G	Sidechain
1	AA	233	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	238	A	Sidechain
1	AA	239	U	Sidechain
1	AA	24	U	Sidechain
1	AA	240	G	Sidechain
1	AA	243	A	Sidechain
1	AA	244	U	Sidechain
1	AA	246	A	Sidechain
1	AA	249	U	Sidechain
1	AA	250	A	Sidechain
1	AA	251	G	Sidechain
1	AA	254	G	Sidechain
1	AA	257	G	Sidechain
1	AA	258	G	Sidechain
1	AA	259	G	Sidechain
1	AA	26	A	Sidechain
1	AA	260	G	Sidechain
1	AA	261	U	Sidechain
1	AA	263	A	Sidechain
1	AA	264	C	Sidechain
1	AA	265	G	Sidechain
1	AA	266	G	Sidechain
1	AA	269	C	Sidechain
1	AA	271	C	Sidechain
1	AA	272	C	Sidechain
1	AA	274	A	Sidechain
1	AA	278	G	Sidechain
1	AA	279	A	Sidechain
1	AA	283	U	Sidechain
1	AA	285	C	Sidechain
1	AA	287	U	Sidechain
1	AA	288	A	Sidechain
1	AA	289	G	Sidechain
1	AA	290	C	Sidechain
1	AA	292	G	Sidechain
1	AA	295	C	Sidechain
1	AA	296	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	302	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	303	A	Sidechain
1	AA	304	U	Sidechain
1	AA	305	G	Sidechain
1	AA	307	C	Sidechain
1	AA	310	G	Sidechain
1	AA	316	C	Sidechain
1	AA	317	U	Sidechain
1	AA	318	G	Sidechain
1	AA	319	G	Sidechain
1	AA	321	A	Sidechain
1	AA	322	C	Sidechain
1	AA	323	U	Sidechain
1	AA	326	G	Sidechain
1	AA	327	A	Sidechain
1	AA	328	C	Sidechain
1	AA	33	A	Sidechain
1	AA	330	C	Sidechain
1	AA	331	G	Sidechain
1	AA	335	C	Sidechain
1	AA	336	A	Sidechain
1	AA	337	G	Sidechain
1	AA	34	C	Sidechain
1	AA	345	C	Sidechain
1	AA	348	G	Sidechain
1	AA	35	G	Sidechain
1	AA	350	G	Sidechain
1	AA	351	G	Sidechain
1	AA	352	C	Sidechain
1	AA	353	A	Sidechain
1	AA	354	G	Sidechain
1	AA	355	C	Sidechain
1	AA	356	A	Sidechain
1	AA	358	U	Sidechain
1	AA	359	G	Sidechain
1	AA	361	G	Sidechain
1	AA	364	A	Sidechain
1	AA	365	U	Sidechain
1	AA	368	U	Sidechain
1	AA	369	G	Sidechain
1	AA	372	C	Sidechain
1	AA	373	A	Sidechain
1	AA	374	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	375	U	Sidechain
1	AA	377	G	Sidechain
1	AA	379	C	Sidechain
1	AA	38	G	Sidechain
1	AA	381	C	Sidechain
1	AA	382	A	Sidechain
1	AA	384	G	Sidechain
1	AA	385	C	Sidechain
1	AA	387	U	Sidechain
1	AA	388	G	Sidechain
1	AA	389	A	Sidechain
1	AA	390	U	Sidechain
1	AA	391	G	Sidechain
1	AA	392	C	Sidechain
1	AA	393	A	Sidechain
1	AA	394	G	Sidechain
1	AA	395	C	Sidechain
1	AA	396	C	Sidechain
1	AA	403	C	Sidechain
1	AA	404	G	Sidechain
1	AA	405	U	Sidechain
1	AA	406	G	Sidechain
1	AA	41	G	Sidechain
1	AA	410	G	Sidechain
1	AA	411	A	Sidechain
1	AA	413	G	Sidechain
1	AA	414	A	Sidechain
1	AA	416	G	Sidechain
1	AA	417	G	Sidechain
1	AA	418	C	Sidechain
1	AA	419	C	Sidechain
1	AA	421	U	Sidechain
1	AA	422	C	Sidechain
1	AA	423	G	Sidechain
1	AA	425	G	Sidechain
1	AA	426	U	Sidechain
1	AA	429	U	Sidechain
1	AA	430	A	Sidechain
1	AA	431	A	Sidechain
1	AA	433	G	Sidechain
1	AA	434	U	Sidechain
1	AA	437	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	438	U	Sidechain
1	AA	439	U	Sidechain
1	AA	440	C	Sidechain
1	AA	444	G	Sidechain
1	AA	445	G	Sidechain
1	AA	447	G	Sidechain
1	AA	448	A	Sidechain
1	AA	450	G	Sidechain
1	AA	452	A	Sidechain
1	AA	453	G	Sidechain
1	AA	454	G	Sidechain
1	AA	455	G	Sidechain
1	AA	457	G	Sidechain
1	AA	461	A	Sidechain
1	AA	462	G	Sidechain
1	AA	465	A	Sidechain
1	AA	466	A	Sidechain
1	AA	47	C	Sidechain
1	AA	471	U	Sidechain
1	AA	472	U	Sidechain
1	AA	473	U	Sidechain
1	AA	474	G	Sidechain
1	AA	476	U	Sidechain
1	AA	478	A	Sidechain
1	AA	48	C	Sidechain
1	AA	480	U	Sidechain
1	AA	481	G	Sidechain
1	AA	482	A	Sidechain
1	AA	488	C	Sidechain
1	AA	489	C	Sidechain
1	AA	49	U	Sidechain
1	AA	490	C	Sidechain
1	AA	495	A	Sidechain
1	AA	497	G	Sidechain
1	AA	498	A	Sidechain
1	AA	5	U	Sidechain
1	AA	50	A	Sidechain
1	AA	500	G	Sidechain
1	AA	501	C	Sidechain
1	AA	502	A	Sidechain
1	AA	503	C	Sidechain
1	AA	504	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	505	G	Sidechain
1	AA	506	G	Sidechain
1	AA	508	U	Sidechain
1	AA	509	A	Sidechain
1	AA	510	A	Sidechain
1	AA	511	C	Sidechain
1	AA	512	U	Sidechain
1	AA	515	G	Sidechain
1	AA	517	G	Sidechain
1	AA	518	C	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	525	C	Sidechain
1	AA	529	G	Sidechain
1	AA	53	A	Sidechain
1	AA	530	G	Sidechain
1	AA	531	U	Sidechain
1	AA	532	A	Sidechain
1	AA	534	U	Sidechain
1	AA	538	G	Sidechain
1	AA	539	A	Sidechain
1	AA	54	C	Sidechain
1	AA	541	G	Sidechain
1	AA	542	G	Sidechain
1	AA	544	G	Sidechain
1	AA	545	C	Sidechain
1	AA	546	A	Sidechain
1	AA	547	A	Sidechain
1	AA	55	A	Sidechain
1	AA	550	G	Sidechain
1	AA	551	U	Sidechain
1	AA	554	A	Sidechain
1	AA	556	C	Sidechain
1	AA	561	U	Sidechain
1	AA	562	U	Sidechain
1	AA	563	A	Sidechain
1	AA	564	C	Sidechain
1	AA	565	U	Sidechain
1	AA	566	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	567	G	Sidechain
1	AA	569	C	Sidechain
1	AA	57	G	Sidechain
1	AA	570	G	Sidechain
1	AA	571	U	Sidechain
1	AA	572	A	Sidechain
1	AA	573	A	Sidechain
1	AA	574	A	Sidechain
1	AA	576	C	Sidechain
1	AA	577	G	Sidechain
1	AA	579	A	Sidechain
1	AA	580	C	Sidechain
1	AA	582	C	Sidechain
1	AA	583	A	Sidechain
1	AA	584	G	Sidechain
1	AA	585	G	Sidechain
1	AA	587	G	Sidechain
1	AA	588	G	Sidechain
1	AA	59	A	Sidechain
1	AA	590	U	Sidechain
1	AA	592	G	Sidechain
1	AA	593	U	Sidechain
1	AA	594	U	Sidechain
1	AA	595	A	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	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	615	G	Sidechain
1	AA	616	G	Sidechain
1	AA	617	G	Sidechain
1	AA	618	C	Sidechain
1	AA	619	U	Sidechain
1	AA	62	U	Sidechain
1	AA	622	A	Sidechain
1	AA	623	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	625	U	Sidechain
1	AA	626	G	Sidechain
1	AA	627	G	Sidechain
1	AA	628	G	Sidechain
1	AA	629	A	Sidechain
1	AA	630	A	Sidechain
1	AA	633	G	Sidechain
1	AA	634	C	Sidechain
1	AA	636	U	Sidechain
1	AA	637	C	Sidechain
1	AA	639	G	Sidechain
1	AA	640	A	Sidechain
1	AA	641	U	Sidechain
1	AA	642	A	Sidechain
1	AA	644	U	Sidechain
1	AA	645	G	Sidechain
1	AA	646	G	Sidechain
1	AA	647	C	Sidechain
1	AA	65	A	Sidechain
1	AA	650	G	Sidechain
1	AA	652	U	Sidechain
1	AA	653	U	Sidechain
1	AA	656	G	Sidechain
1	AA	66	A	Sidechain
1	AA	660	C	Sidechain
1	AA	661	G	Sidechain
1	AA	662	U	Sidechain
1	AA	664	G	Sidechain
1	AA	665	A	Sidechain
1	AA	666	G	Sidechain
1	AA	667	G	Sidechain
1	AA	668	G	Sidechain
1	AA	669	G	Sidechain
1	AA	670	G	Sidechain
1	AA	671	G	Sidechain
1	AA	672	U	Sidechain
1	AA	673	A	Sidechain
1	AA	674	G	Sidechain
1	AA	676	A	Sidechain
1	AA	677	U	Sidechain
1	AA	678	U	Sidechain
1	AA	68	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	681	A	Sidechain
1	AA	682	G	Sidechain
1	AA	684	U	Sidechain
1	AA	685	G	Sidechain
1	AA	686	U	Sidechain
1	AA	687	A	Sidechain
1	AA	688	G	Sidechain
1	AA	689	C	Sidechain
1	AA	690	G	Sidechain
1	AA	691	G	Sidechain
1	AA	693	G	Sidechain
1	AA	695	A	Sidechain
1	AA	696	A	Sidechain
1	AA	697	U	Sidechain
1	AA	7	A	Sidechain
1	AA	700	G	Sidechain
1	AA	703	G	Sidechain
1	AA	704	A	Sidechain
1	AA	705	G	Sidechain
1	AA	707	U	Sidechain
1	AA	709	U	Sidechain
1	AA	710	G	Sidechain
1	AA	712	A	Sidechain
1	AA	717	U	Sidechain
1	AA	718	A	Sidechain
1	AA	719	C	Sidechain
1	AA	72	A	Sidechain
1	AA	721	G	Sidechain
1	AA	722	G	Sidechain
1	AA	723	U	Sidechain
1	AA	725	G	Sidechain
1	AA	726	C	Sidechain
1	AA	727	G	Sidechain
1	AA	728	A	Sidechain
1	AA	729	A	Sidechain
1	AA	73	C	Sidechain
1	AA	730	G	Sidechain
1	AA	731	G	Sidechain
1	AA	732	C	Sidechain
1	AA	733	G	Sidechain
1	AA	734	G	Sidechain
1	AA	736	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	737	C	Sidechain
1	AA	738	C	Sidechain
1	AA	74	A	Sidechain
1	AA	740	U	Sidechain
1	AA	742	G	Sidechain
1	AA	744	C	Sidechain
1	AA	748	G	Sidechain
1	AA	75	G	Sidechain
1	AA	750	C	Sidechain
1	AA	751	U	Sidechain
1	AA	752	G	Sidechain
1	AA	755	G	Sidechain
1	AA	758	C	Sidechain
1	AA	76	G	Sidechain
1	AA	761	G	Sidechain
1	AA	762	U	Sidechain
1	AA	763	G	Sidechain
1	AA	764	C	Sidechain
1	AA	765	G	Sidechain
1	AA	767	A	Sidechain
1	AA	769	G	Sidechain
1	AA	770	C	Sidechain
1	AA	771	G	Sidechain
1	AA	772	U	Sidechain
1	AA	773	G	Sidechain
1	AA	775	G	Sidechain
1	AA	776	G	Sidechain
1	AA	778	G	Sidechain
1	AA	779	C	Sidechain
1	AA	78	A	Sidechain
1	AA	780	A	Sidechain
1	AA	785	G	Sidechain
1	AA	786	G	Sidechain
1	AA	787	A	Sidechain
1	AA	788	U	Sidechain
1	AA	789	U	Sidechain
1	AA	79	G	Sidechain
1	AA	790	A	Sidechain
1	AA	791	G	Sidechain
1	AA	793	U	Sidechain
1	AA	794	A	Sidechain
1	AA	796	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	798	U	Sidechain
1	AA	8	A	Sidechain
1	AA	800	G	Sidechain
1	AA	801	U	Sidechain
1	AA	803	G	Sidechain
1	AA	81	A	Sidechain
1	AA	810	C	Sidechain
1	AA	811	C	Sidechain
1	AA	812	G	Sidechain
1	AA	814	A	Sidechain
1	AA	815	A	Sidechain
1	AA	817	C	Sidechain
1	AA	818	G	Sidechain
1	AA	82	G	Sidechain
1	AA	821	G	Sidechain
1	AA	825	A	Sidechain
1	AA	827	U	Sidechain
1	AA	828	U	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	836	G	Sidechain
1	AA	838	G	Sidechain
1	AA	84	U	Sidechain
1	AA	840	C	Sidechain
1	AA	841	C	Sidechain
1	AA	842	U	Sidechain
1	AA	844	G	Sidechain
1	AA	846	G	Sidechain
1	AA	849	G	Sidechain
1	AA	850	U	Sidechain
1	AA	851	G	Sidechain
1	AA	852	G	Sidechain
1	AA	853	C	Sidechain
1	AA	854	U	Sidechain
1	AA	855	U	Sidechain
1	AA	856	C	Sidechain
1	AA	857	C	Sidechain
1	AA	858	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	859	G	Sidechain
1	AA	86	G	Sidechain
1	AA	860	A	Sidechain
1	AA	861	G	Sidechain
1	AA	864	A	Sidechain
1	AA	865	A	Sidechain
1	AA	869	G	Sidechain
1	AA	87	C	Sidechain
1	AA	871	U	Sidechain
1	AA	873	A	Sidechain
1	AA	874	G	Sidechain
1	AA	876	C	Sidechain
1	AA	878	A	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	890	G	Sidechain
1	AA	891	U	Sidechain
1	AA	892	A	Sidechain
1	AA	894	G	Sidechain
1	AA	895	G	Sidechain
1	AA	896	C	Sidechain
1	AA	897	C	Sidechain
1	AA	9	G	Sidechain
1	AA	900	A	Sidechain
1	AA	902	G	Sidechain
1	AA	903	G	Sidechain
1	AA	908	A	Sidechain
1	AA	91	U	Sidechain
1	AA	912	C	Sidechain
1	AA	914	A	Sidechain
1	AA	915	A	Sidechain
1	AA	916	U	Sidechain
1	AA	917	G	Sidechain
1	AA	919	A	Sidechain
1	AA	921	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	922	G	Sidechain
1	AA	923	A	Sidechain
1	AA	924	C	Sidechain
1	AA	927	G	Sidechain
1	AA	928	G	Sidechain
1	AA	929	G	Sidechain
1	AA	93	U	Sidechain
1	AA	930	C	Sidechain
1	AA	932	C	Sidechain
1	AA	934	C	Sidechain
1	AA	937	A	Sidechain
1	AA	938	A	Sidechain
1	AA	94	G	Sidechain
1	AA	941	G	Sidechain
1	AA	942	G	Sidechain
1	AA	944	G	Sidechain
1	AA	945	G	Sidechain
1	AA	947	G	Sidechain
1	AA	950	U	Sidechain
1	AA	951	G	Sidechain
1	AA	952	U	Sidechain
1	AA	953	G	Sidechain
1	AA	958	A	Sidechain
1	AA	959	A	Sidechain
1	AA	961	U	Sidechain
1	AA	968	A	Sidechain
1	AA	969	A	Sidechain
1	AA	97	G	Sidechain
1	AA	970	C	Sidechain
1	AA	971	G	Sidechain
1	AA	972	C	Sidechain
1	AA	974	A	Sidechain
1	AA	975	A	Sidechain
1	AA	978	A	Sidechain
1	AA	979	C	Sidechain
1	AA	980	C	Sidechain
1	AA	981	U	Sidechain
1	AA	983	A	Sidechain
1	AA	984	C	Sidechain
1	AA	987	G	Sidechain
1	AA	988	G	Sidechain
1	AA	989	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	99	C	Sidechain
1	AA	990	C	Sidechain
1	AA	992	U	Sidechain
1	AA	993	G	Sidechain
1	AA	995	C	Sidechain
1	AA	997	U	Sidechain
2	AB	1	A	Sidechain
2	AB	12	U	Sidechain
2	AB	18	G	Sidechain
2	AB	19	G	Sidechain
2	AB	21	A	Sidechain
2	AB	22	G	Sidechain
2	AB	24	G	Sidechain
2	AB	26	A	Sidechain
2	AB	27	C	Sidechain
2	AB	29	G	Sidechain
2	AB	30	G	Sidechain
2	AB	34	C	Sidechain
2	AB	35	C	Sidechain
2	AB	36	A	Sidechain
2	AB	38	A	Sidechain
2	AB	39	A	Sidechain
2	AB	4	G	Sidechain
2	AB	40	C	Sidechain
2	AB	42	G	Sidechain
2	AB	43	G	Sidechain
2	AB	44	G	Sidechain
2	AB	45	U	Sidechain
2	AB	47	U	Sidechain
2	AB	48	U	Sidechain
2	AB	49	G	Sidechain
2	AB	5	G	Sidechain
2	AB	51	G	Sidechain
2	AB	52	A	Sidechain
2	AB	53	G	Sidechain
2	AB	57	G	Sidechain
2	AB	58	A	Sidechain
2	AB	59	G	Sidechain
2	AB	61	C	Sidechain
2	AB	62	U	Sidechain
2	AB	64	U	Sidechain
2	AB	66	C	Sidechain

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Mol	Chain	Res	Type	Group
2	AB	67	G	Sidechain
2	AB	7	G	Sidechain
2	AB	70	C	Sidechain
2	AB	72	U	Sidechain
2	AB	73	G	Sidechain
2	AB	74	C	Sidechain
2	AB	76	A	Sidechain
3	AC	14	G	Sidechain
3	AC	15	G	Sidechain
3	AC	16	A	Sidechain
3	AC	17	U	Sidechain
3	AC	18	A	Sidechain
3	AC	20	G	Sidechain
3	AC	22	G	Sidechain
3	AC	23	C	Sidechain
3	AC	24	A	Sidechain
3	AC	25	U	Sidechain
3	AC	28	U	Sidechain
3	AC	29	G	Sidechain
3	AC	32	U	Sidechain
3	AC	33	A	Sidechain
3	AC	34	U	Sidechain
3	AC	35	G	Sidechain
3	AC	37	G	Sidechain
3	AC	38	G	Sidechain
3	AC	39	U	Sidechain
3	AC	40	G	Sidechain
3	AC	41	A	Sidechain
3	AC	44	U	Sidechain
3	AC	47	C	Sidechain
3	AC	48	C	Sidechain
3	AC	49	U	Sidechain
3	AC	51	C	Sidechain
3	AC	53	G	Sidechain
3	AC	55	A	Sidechain
3	AC	56	G	Sidechain
3	AC	58	C	Sidechain
4	AD	1	C	Sidechain
4	AD	10	G	Sidechain
4	AD	11	A	Sidechain
4	AD	12	G	Sidechain
4	AD	13	C	Sidechain

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Mol	Chain	Res	Type	Group
4	AD	14	A	Sidechain
4	AD	16	C	Sidechain
4	AD	19	G	Sidechain
4	AD	2	G	Sidechain
4	AD	22	A	Sidechain
4	AD	23	G	Sidechain
4	AD	24	C	Sidechain
4	AD	27	G	Sidechain
4	AD	35	C	Sidechain
4	AD	39	A	Sidechain
4	AD	4	G	Sidechain
4	AD	43	G	Sidechain
4	AD	47	A	Sidechain
4	AD	49	C	Sidechain
4	AD	5	G	Sidechain
4	AD	51	U	Sidechain
4	AD	53	G	Sidechain
4	AD	58	A	Sidechain
4	AD	59	A	Sidechain
4	AD	6	G	Sidechain
4	AD	60	A	Sidechain
4	AD	63	C	Sidechain
4	AD	64	G	Sidechain
4	AD	67	C	Sidechain
4	AD	69	C	Sidechain
4	AD	7	G	Sidechain
4	AD	70	C	Sidechain
4	AD	71	G	Sidechain
4	AD	72	C	Sidechain
4	AD	74	A	Sidechain
4	AD	77	A	Sidechain
4	AD	9	G	Sidechain
5	AE	15	PHE	Sidechain
6	AF	178	ARG	Sidechain
6	AF	28	PHE	Sidechain
6	AF	71	ARG	Sidechain
7	AG	103	ARG	Sidechain
7	AG	119	HIS	Mainchain
7	AG	12	ARG	Sidechain
7	AG	134	TYR	Sidechain
7	AG	163	GLN	Peptide
7	AG	202	LEU	Mainchain

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Mol	Chain	Res	Type	Group
7	AG	203	TYR	Sidechain
7	AG	74	TYR	Sidechain
7	AG	75	TYR	Sidechain
8	AH	123	LEU	Mainchain
8	AH	49	TYR	Sidechain
9	AI	101	PRO	Mainchain
9	AI	111	GLU	Peptide
9	AI	116	PHE	Sidechain
9	AI	64	VAL	Peptide
9	AI	8	PHE	Sidechain
10	AJ	153	TYR	Sidechain
10	AJ	175	GLY	Peptide
10	AJ	3	ARG	Sidechain
10	AJ	52	ARG	Sidechain
10	AJ	69	ARG	Sidechain
10	AJ	95	ARG	Sidechain
11	AK	44	PHE	Peptide
11	AK	64	TYR	Sidechain
12	AL	121	ARG	Sidechain
12	AL	123	ARG	Sidechain
12	AL	129	ARG	Sidechain
13	AM	15	HIS	Sidechain
13	AM	65	TYR	Sidechain
14	AN	26	PHE	Sidechain
14	AN	36	ARG	Sidechain
14	AN	6	ARG	Sidechain
14	AN	97	ARG	Sidechain
15	AO	116	TYR	Sidechain,Peptide
15	AO	14	LYS	Peptide
15	AO	37	TYR	Peptide
15	AO	49	ARG	Sidechain
15	AO	53	ARG	Sidechain
15	AO	55	ARG	Sidechain
15	AO	65	TYR	Sidechain
15	AO	82	ARG	Sidechain
16	AP	101	THR	Mainchain
16	AP	7	ASN	Peptide
16	AP	85	TYR	Sidechain
16	AP	89	ARG	Sidechain
17	AQ	89	ARG	Sidechain
18	AR	42	PHE	Peptide
18	AR	57	ARG	Sidechain

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Mol	Chain	Res	Type	Group
18	AR	79	ARG	Sidechain
19	AS	16	PHE	Sidechain
19	AS	32	PHE	Sidechain
19	AS	56	ARG	Sidechain
20	AT	33	TYR	Sidechain
20	AT	39	ARG	Sidechain
21	AU	10	CYS	Peptide
21	AU	5	ARG	Sidechain
21	AU	56	ARG	Sidechain
21	AU	69	TYR	Sidechain,Peptide
22	AV	36	ARG	Sidechain
22	AV	77	ARG	Sidechain
22	AV	87	LYS	Peptide
23	AW	35	TYR	Sidechain
23	AW	9	ARG	Sidechain
24	AX	11	PHE	Sidechain
24	AX	17	ARG	Sidechain
24	AX	33	ARG	Sidechain
24	AX	69	LEU	Peptide
51	B0	41	HIS	Sidechain
53	B2	32	LEU	Mainchain
53	B2	43	PHE	Peptide
53	B2	44	PHE	Sidechain
53	B2	56	ARG	Sidechain
53	B2	9	TYR	Sidechain
54	B3	16	ARG	Sidechain
54	B3	18	HIS	Sidechain
54	B3	39	ARG	Sidechain
54	B3	47	TYR	Sidechain
55	B4	43	ARG	Sidechain
55	B4	48	TYR	Sidechain
55	B4	5	ARG	Sidechain
56	B5	15	SER	Peptide
56	B5	41	ARG	Sidechain
57	B6	1	PRO	Peptide
25	BA	1	U	Sidechain
25	BA	103	U	Sidechain
25	BA	106	G	Sidechain
25	BA	108	A	Sidechain
25	BA	109	A	Sidechain
25	BA	110	C	Sidechain
25	BA	112	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	113	C	Sidechain
25	BA	115	A	Sidechain
25	BA	117	G	Sidechain
25	BA	12	C	Sidechain
25	BA	13	G	Sidechain
25	BA	14	U	Sidechain
25	BA	15	A	Sidechain
25	BA	17	C	Sidechain
25	BA	19	C	Sidechain
25	BA	21	G	Sidechain
25	BA	24	G	Sidechain
25	BA	25	U	Sidechain
25	BA	26	C	Sidechain
25	BA	27	C	Sidechain
25	BA	29	A	Sidechain
25	BA	30	C	Sidechain
25	BA	32	U	Sidechain
25	BA	33	G	Sidechain
25	BA	34	A	Sidechain
25	BA	38	C	Sidechain
25	BA	4	C	Sidechain
25	BA	41	G	Sidechain
25	BA	43	C	Sidechain
25	BA	44	G	Sidechain
25	BA	45	A	Sidechain
25	BA	46	A	Sidechain
25	BA	48	U	Sidechain
25	BA	51	G	Sidechain
25	BA	52	A	Sidechain
25	BA	54	G	Sidechain
25	BA	60	C	Sidechain
25	BA	61	G	Sidechain
25	BA	64	G	Sidechain
25	BA	65	U	Sidechain
25	BA	66	A	Sidechain
25	BA	67	G	Sidechain
25	BA	68	C	Sidechain
25	BA	69	G	Sidechain
25	BA	71	C	Sidechain
25	BA	75	G	Sidechain
25	BA	76	G	Sidechain
25	BA	77	U	Sidechain

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Mol	Chain	Res	Type	Group
25	BA	78	A	Sidechain
25	BA	8	C	Sidechain
25	BA	80	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	89	U	Sidechain
25	BA	90	C	Sidechain
25	BA	91	C	Sidechain
25	BA	93	C	Sidechain
25	BA	94	A	Sidechain
25	BA	95	U	Sidechain
25	BA	98	G	Sidechain
25	BA	99	A	Sidechain
26	BB	1	G	Sidechain
26	BB	10	A	Sidechain
26	BB	1000	A	Sidechain
26	BB	1003	G	Sidechain
26	BB	1004	U	Sidechain
26	BB	1010	A	Sidechain
26	BB	1011	G	Sidechain
26	BB	1019	U	Sidechain
26	BB	102	U	Sidechain
26	BB	1020	A	Sidechain
26	BB	1022	G	Sidechain
26	BB	1024	G	Sidechain
26	BB	1025	G	Sidechain
26	BB	1029	A	Sidechain
26	BB	103	A	Sidechain
26	BB	1031	G	Sidechain
26	BB	1032	A	Sidechain
26	BB	1034	G	Sidechain
26	BB	1035	U	Sidechain
26	BB	1036	G	Sidechain
26	BB	1037	G	Sidechain
26	BB	1038	G	Sidechain
26	BB	1041	G	Sidechain
26	BB	1042	G	Sidechain
26	BB	1043	C	Sidechain
26	BB	1045	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1046	A	Sidechain
26	BB	1047	G	Sidechain
26	BB	1048	A	Sidechain
26	BB	1050	A	Sidechain
26	BB	1051	G	Sidechain
26	BB	1053	C	Sidechain
26	BB	1055	G	Sidechain
26	BB	1056	G	Sidechain
26	BB	1057	A	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	1067	A	Sidechain
26	BB	1068	G	Sidechain
26	BB	1069	A	Sidechain
26	BB	107	G	Sidechain
26	BB	1070	A	Sidechain
26	BB	1072	C	Sidechain
26	BB	1074	G	Sidechain
26	BB	1075	C	Sidechain
26	BB	1078	U	Sidechain
26	BB	1081	U	Sidechain
26	BB	1083	U	Sidechain
26	BB	1087	G	Sidechain
26	BB	1088	A	Sidechain
26	BB	1089	A	Sidechain
26	BB	1090	A	Sidechain
26	BB	1091	G	Sidechain
26	BB	1092	C	Sidechain
26	BB	1093	G	Sidechain
26	BB	1096	A	Sidechain
26	BB	1099	G	Sidechain
26	BB	110	G	Sidechain
26	BB	1100	C	Sidechain
26	BB	1101	U	Sidechain
26	BB	1102	C	Sidechain
26	BB	1104	C	Sidechain
26	BB	1105	U	Sidechain
26	BB	1106	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1109	C	Sidechain
26	BB	1110	G	Sidechain
26	BB	1111	A	Sidechain
26	BB	1114	C	Sidechain
26	BB	1115	G	Sidechain
26	BB	1116	G	Sidechain
26	BB	1117	C	Sidechain
26	BB	1118	C	Sidechain
26	BB	1119	U	Sidechain
26	BB	112	U	Sidechain
26	BB	1120	G	Sidechain
26	BB	1121	C	Sidechain
26	BB	1122	G	Sidechain
26	BB	1124	G	Sidechain
26	BB	1125	G	Sidechain
26	BB	1127	A	Sidechain
26	BB	1128	G	Sidechain
26	BB	1134	A	Sidechain
26	BB	1135	C	Sidechain
26	BB	1136	G	Sidechain
26	BB	1137	G	Sidechain
26	BB	1139	G	Sidechain
26	BB	114	U	Sidechain
26	BB	1141	U	Sidechain
26	BB	1147	A	Sidechain
26	BB	1149	G	Sidechain
26	BB	115	C	Sidechain
26	BB	1150	C	Sidechain
26	BB	1151	A	Sidechain
26	BB	1155	A	Sidechain
26	BB	1157	G	Sidechain
26	BB	116	C	Sidechain
26	BB	1163	G	Sidechain
26	BB	1164	C	Sidechain
26	BB	1165	A	Sidechain
26	BB	1166	G	Sidechain
26	BB	1169	A	Sidechain
26	BB	1171	G	Sidechain
26	BB	1173	U	Sidechain
26	BB	1174	U	Sidechain
26	BB	1176	U	Sidechain
26	BB	1177	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1178	C	Sidechain
26	BB	118	A	Sidechain
26	BB	1182	G	Sidechain
26	BB	1187	G	Sidechain
26	BB	119	A	Sidechain
26	BB	1190	G	Sidechain
26	BB	1192	G	Sidechain
26	BB	1197	G	Sidechain
26	BB	1199	U	Sidechain
26	BB	120	U	Sidechain
26	BB	1200	C	Sidechain
26	BB	1202	G	Sidechain
26	BB	1203	U	Sidechain
26	BB	1206	G	Sidechain
26	BB	1207	C	Sidechain
26	BB	1208	C	Sidechain
26	BB	1209	U	Sidechain
26	BB	1211	C	Sidechain
26	BB	1214	A	Sidechain
26	BB	1215	G	Sidechain
26	BB	1216	G	Sidechain
26	BB	1218	G	Sidechain
26	BB	122	G	Sidechain
26	BB	1220	G	Sidechain
26	BB	1223	G	Sidechain
26	BB	1224	U	Sidechain
26	BB	1225	G	Sidechain
26	BB	1226	A	Sidechain
26	BB	1227	G	Sidechain
26	BB	1228	G	Sidechain
26	BB	1229	C	Sidechain
26	BB	1231	U	Sidechain
26	BB	1232	G	Sidechain
26	BB	1237	A	Sidechain
26	BB	1238	G	Sidechain
26	BB	1239	G	Sidechain
26	BB	124	G	Sidechain
26	BB	1241	A	Sidechain
26	BB	1243	C	Sidechain
26	BB	1245	G	Sidechain
26	BB	1246	A	Sidechain
26	BB	1248	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	125	A	Sidechain
26	BB	1251	C	Sidechain
26	BB	1253	A	Sidechain
26	BB	1255	U	Sidechain
26	BB	1257	C	Sidechain
26	BB	1258	U	Sidechain
26	BB	1259	G	Sidechain
26	BB	126	A	Sidechain
26	BB	1260	A	Sidechain
26	BB	1261	C	Sidechain
26	BB	1263	U	Sidechain
26	BB	1265	A	Sidechain
26	BB	1266	G	Sidechain
26	BB	1268	A	Sidechain
26	BB	127	A	Sidechain
26	BB	1271	G	Sidechain
26	BB	1274	A	Sidechain
26	BB	1276	A	Sidechain
26	BB	1284	A	Sidechain
26	BB	1286	A	Sidechain
26	BB	1287	A	Sidechain
26	BB	1288	G	Sidechain
26	BB	129	C	Sidechain
26	BB	1292	G	Sidechain
26	BB	1295	C	Sidechain
26	BB	1296	G	Sidechain
26	BB	1297	C	Sidechain
26	BB	130	C	Sidechain
26	BB	1300	G	Sidechain
26	BB	1301	A	Sidechain
26	BB	1302	A	Sidechain
26	BB	1303	G	Sidechain
26	BB	1306	C	Sidechain
26	BB	1310	G	Sidechain
26	BB	1313	U	Sidechain
26	BB	1314	C	Sidechain
26	BB	1315	C	Sidechain
26	BB	1316	U	Sidechain
26	BB	132	G	Sidechain
26	BB	1321	A	Sidechain
26	BB	1322	A	Sidechain
26	BB	1323	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1324	G	Sidechain
26	BB	1325	U	Sidechain
26	BB	1326	U	Sidechain
26	BB	133	U	Sidechain
26	BB	1330	C	Sidechain
26	BB	1331	G	Sidechain
26	BB	1332	G	Sidechain
26	BB	1333	G	Sidechain
26	BB	1334	G	Sidechain
26	BB	1335	C	Sidechain
26	BB	1336	A	Sidechain
26	BB	1337	G	Sidechain
26	BB	1338	G	Sidechain
26	BB	1339	G	Sidechain
26	BB	134	G	Sidechain
26	BB	1340	U	Sidechain
26	BB	1341	G	Sidechain
26	BB	1342	A	Sidechain
26	BB	1343	G	Sidechain
26	BB	1344	U	Sidechain
26	BB	1351	C	Sidechain
26	BB	1357	C	Sidechain
26	BB	1359	A	Sidechain
26	BB	136	G	Sidechain
26	BB	1360	G	Sidechain
26	BB	1361	G	Sidechain
26	BB	1363	C	Sidechain
26	BB	1364	G	Sidechain
26	BB	1367	A	Sidechain
26	BB	1370	C	Sidechain
26	BB	1371	G	Sidechain
26	BB	1374	G	Sidechain
26	BB	1376	C	Sidechain
26	BB	1377	G	Sidechain
26	BB	1378	A	Sidechain
26	BB	1379	U	Sidechain
26	BB	138	U	Sidechain
26	BB	1381	G	Sidechain
26	BB	1384	A	Sidechain
26	BB	1385	A	Sidechain
26	BB	1386	C	Sidechain
26	BB	1387	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1388	G	Sidechain
26	BB	1389	G	Sidechain
26	BB	1390	U	Sidechain
26	BB	1393	A	Sidechain
26	BB	1396	U	Sidechain
26	BB	1398	C	Sidechain
26	BB	14	A	Sidechain
26	BB	140	C	Sidechain
26	BB	1400	U	Sidechain
26	BB	1401	G	Sidechain
26	BB	1402	U	Sidechain
26	BB	1403	A	Sidechain
26	BB	1405	U	Sidechain
26	BB	1406	U	Sidechain
26	BB	141	G	Sidechain
26	BB	1410	G	Sidechain
26	BB	1413	A	Sidechain
26	BB	1414	C	Sidechain
26	BB	1416	G	Sidechain
26	BB	1418	G	Sidechain
26	BB	1419	A	Sidechain
26	BB	142	A	Sidechain
26	BB	1421	G	Sidechain
26	BB	1423	G	Sidechain
26	BB	1424	G	Sidechain
26	BB	1425	G	Sidechain
26	BB	1429	G	Sidechain
26	BB	143	C	Sidechain
26	BB	1430	G	Sidechain
26	BB	1432	G	Sidechain
26	BB	1434	A	Sidechain
26	BB	1435	G	Sidechain
26	BB	1436	G	Sidechain
26	BB	1437	C	Sidechain
26	BB	144	A	Sidechain
26	BB	1442	U	Sidechain
26	BB	1444	G	Sidechain
26	BB	1446	C	Sidechain
26	BB	1447	C	Sidechain
26	BB	1448	G	Sidechain
26	BB	145	C	Sidechain
26	BB	1450	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1451	C	Sidechain
26	BB	1452	G	Sidechain
26	BB	1453	A	Sidechain
26	BB	1454	C	Sidechain
26	BB	1455	G	Sidechain
26	BB	1456	G	Sidechain
26	BB	1459	G	Sidechain
26	BB	1460	U	Sidechain
26	BB	1461	C	Sidechain
26	BB	1463	C	Sidechain
26	BB	1464	G	Sidechain
26	BB	1465	G	Sidechain
26	BB	1466	U	Sidechain
26	BB	1468	U	Sidechain
26	BB	147	C	Sidechain
26	BB	1470	A	Sidechain
26	BB	1471	G	Sidechain
26	BB	1473	G	Sidechain
26	BB	1477	A	Sidechain
26	BB	1478	G	Sidechain
26	BB	1480	C	Sidechain
26	BB	1481	U	Sidechain
26	BB	1482	G	Sidechain
26	BB	1483	G	Sidechain
26	BB	1486	U	Sidechain
26	BB	1487	U	Sidechain
26	BB	149	A	Sidechain
26	BB	1491	G	Sidechain
26	BB	1492	G	Sidechain
26	BB	1493	C	Sidechain
26	BB	15	G	Sidechain
26	BB	150	U	Sidechain
26	BB	1501	G	Sidechain
26	BB	1503	A	Sidechain
26	BB	1504	A	Sidechain
26	BB	1508	A	Sidechain
26	BB	1510	G	Sidechain
26	BB	1511	G	Sidechain
26	BB	1512	C	Sidechain
26	BB	1513	U	Sidechain
26	BB	1515	A	Sidechain
26	BB	1516	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1517	G	Sidechain
26	BB	1518	C	Sidechain
26	BB	1519	G	Sidechain
26	BB	1520	U	Sidechain
26	BB	1521	G	Sidechain
26	BB	1522	A	Sidechain
26	BB	1524	G	Sidechain
26	BB	1525	A	Sidechain
26	BB	1527	G	Sidechain
26	BB	1529	G	Sidechain
26	BB	1530	G	Sidechain
26	BB	1532	A	Sidechain
26	BB	1535	A	Sidechain
26	BB	1536	C	Sidechain
26	BB	1537	G	Sidechain
26	BB	1538	G	Sidechain
26	BB	1541	C	Sidechain
26	BB	1543	G	Sidechain
26	BB	1546	G	Sidechain
26	BB	1548	A	Sidechain
26	BB	1549	A	Sidechain
26	BB	1551	A	Sidechain
26	BB	1552	A	Sidechain
26	BB	1553	A	Sidechain
26	BB	1554	U	Sidechain
26	BB	1557	C	Sidechain
26	BB	1558	C	Sidechain
26	BB	156	A	Sidechain
26	BB	1560	G	Sidechain
26	BB	1561	C	Sidechain
26	BB	1562	U	Sidechain
26	BB	1565	C	Sidechain
26	BB	1568	G	Sidechain
26	BB	157	C	Sidechain
26	BB	1572	A	Sidechain
26	BB	1573	G	Sidechain
26	BB	1575	C	Sidechain
26	BB	1576	U	Sidechain
26	BB	1577	C	Sidechain
26	BB	158	U	Sidechain
26	BB	1580	A	Sidechain
26	BB	1581	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1583	A	Sidechain
26	BB	1584	U	Sidechain
26	BB	1585	C	Sidechain
26	BB	1588	G	Sidechain
26	BB	1589	U	Sidechain
26	BB	159	G	Sidechain
26	BB	1590	A	Sidechain
26	BB	1591	A	Sidechain
26	BB	1594	U	Sidechain
26	BB	1595	C	Sidechain
26	BB	1596	A	Sidechain
26	BB	1599	U	Sidechain
26	BB	1600	C	Sidechain
26	BB	1601	G	Sidechain
26	BB	1603	A	Sidechain
26	BB	1604	C	Sidechain
26	BB	1606	C	Sidechain
26	BB	1607	C	Sidechain
26	BB	1608	A	Sidechain
26	BB	1610	A	Sidechain
26	BB	1612	C	Sidechain
26	BB	1613	G	Sidechain
26	BB	1615	C	Sidechain
26	BB	1616	A	Sidechain
26	BB	162	U	Sidechain
26	BB	1620	G	Sidechain
26	BB	1621	U	Sidechain
26	BB	1624	U	Sidechain
26	BB	1625	C	Sidechain
26	BB	1626	A	Sidechain
26	BB	1627	G	Sidechain
26	BB	1629	U	Sidechain
26	BB	163	C	Sidechain
26	BB	1630	A	Sidechain
26	BB	1632	A	Sidechain
26	BB	1633	G	Sidechain
26	BB	1636	U	Sidechain
26	BB	1638	C	Sidechain
26	BB	164	C	Sidechain
26	BB	1642	G	Sidechain
26	BB	1643	G	Sidechain
26	BB	1644	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1645	G	Sidechain
26	BB	1647	U	Sidechain
26	BB	1650	A	Sidechain
26	BB	1652	A	Sidechain
26	BB	1653	G	Sidechain
26	BB	1655	A	Sidechain
26	BB	1656	C	Sidechain
26	BB	1657	U	Sidechain
26	BB	1659	G	Sidechain
26	BB	1660	G	Sidechain
26	BB	1661	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	1673	G	Sidechain
26	BB	1676	A	Sidechain
26	BB	1677	A	Sidechain
26	BB	1678	A	Sidechain
26	BB	1679	A	Sidechain
26	BB	168	G	Sidechain
26	BB	1680	U	Sidechain
26	BB	1684	G	Sidechain
26	BB	1685	C	Sidechain
26	BB	1686	C	Sidechain
26	BB	1687	G	Sidechain
26	BB	1688	U	Sidechain
26	BB	1690	A	Sidechain
26	BB	1693	U	Sidechain
26	BB	1695	G	Sidechain
26	BB	1696	G	Sidechain
26	BB	1697	G	Sidechain
26	BB	1698	A	Sidechain
26	BB	17	G	Sidechain
26	BB	170	U	Sidechain
26	BB	1701	A	Sidechain
26	BB	1702	G	Sidechain
26	BB	1703	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1704	C	Sidechain
26	BB	1706	C	Sidechain
26	BB	1709	U	Sidechain
26	BB	1710	G	Sidechain
26	BB	1714	U	Sidechain
26	BB	1715	G	Sidechain
26	BB	1716	U	Sidechain
26	BB	1717	A	Sidechain
26	BB	1718	G	Sidechain
26	BB	1719	G	Sidechain
26	BB	1720	U	Sidechain
26	BB	1721	G	Sidechain
26	BB	1722	A	Sidechain
26	BB	1724	G	Sidechain
26	BB	1729	U	Sidechain
26	BB	1731	G	Sidechain
26	BB	1734	G	Sidechain
26	BB	1737	G	Sidechain
26	BB	1738	G	Sidechain
26	BB	1741	C	Sidechain
26	BB	1742	U	Sidechain
26	BB	1743	G	Sidechain
26	BB	1745	A	Sidechain
26	BB	1748	C	Sidechain
26	BB	175	G	Sidechain
26	BB	1750	G	Sidechain
26	BB	1751	U	Sidechain
26	BB	1753	G	Sidechain
26	BB	1754	A	Sidechain
26	BB	1755	A	Sidechain
26	BB	1756	G	Sidechain
26	BB	1757	A	Sidechain
26	BB	176	A	Sidechain
26	BB	1763	G	Sidechain
26	BB	1764	C	Sidechain
26	BB	1769	U	Sidechain
26	BB	177	G	Sidechain
26	BB	1771	C	Sidechain
26	BB	1772	A	Sidechain
26	BB	1775	U	Sidechain
26	BB	1777	U	Sidechain
26	BB	1779	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	178	G	Sidechain
26	BB	1780	A	Sidechain
26	BB	1781	U	Sidechain
26	BB	1782	U	Sidechain
26	BB	1783	A	Sidechain
26	BB	1784	A	Sidechain
26	BB	1785	A	Sidechain
26	BB	1786	A	Sidechain
26	BB	1789	A	Sidechain
26	BB	179	C	Sidechain
26	BB	1791	A	Sidechain
26	BB	1792	G	Sidechain
26	BB	1793	C	Sidechain
26	BB	1797	G	Sidechain
26	BB	1799	G	Sidechain
26	BB	18	U	Sidechain
26	BB	1801	A	Sidechain
26	BB	1804	C	Sidechain
26	BB	1805	A	Sidechain
26	BB	1807	G	Sidechain
26	BB	1808	A	Sidechain
26	BB	1809	A	Sidechain
26	BB	181	A	Sidechain
26	BB	1810	A	Sidechain
26	BB	1811	G	Sidechain
26	BB	1816	C	Sidechain
26	BB	1817	G	Sidechain
26	BB	1818	U	Sidechain
26	BB	1821	A	Sidechain
26	BB	1822	C	Sidechain
26	BB	1826	G	Sidechain
26	BB	1828	G	Sidechain
26	BB	1830	C	Sidechain
26	BB	1831	G	Sidechain
26	BB	1833	C	Sidechain
26	BB	1834	U	Sidechain
26	BB	1836	C	Sidechain
26	BB	1839	G	Sidechain
26	BB	1840	G	Sidechain
26	BB	1841	U	Sidechain
26	BB	1842	G	Sidechain
26	BB	1843	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1845	G	Sidechain
26	BB	1848	A	Sidechain
26	BB	1850	G	Sidechain
26	BB	1851	U	Sidechain
26	BB	1852	U	Sidechain
26	BB	1853	A	Sidechain
26	BB	1855	U	Sidechain
26	BB	1856	U	Sidechain
26	BB	1857	G	Sidechain
26	BB	186	G	Sidechain
26	BB	1860	G	Sidechain
26	BB	1862	G	Sidechain
26	BB	1864	U	Sidechain
26	BB	1865	U	Sidechain
26	BB	1866	A	Sidechain
26	BB	1867	G	Sidechain
26	BB	1871	A	Sidechain
26	BB	1873	G	Sidechain
26	BB	1876	A	Sidechain
26	BB	1883	U	Sidechain
26	BB	1885	A	Sidechain
26	BB	1886	U	Sidechain
26	BB	189	G	Sidechain
26	BB	1891	G	Sidechain
26	BB	1893	C	Sidechain
26	BB	1896	G	Sidechain
26	BB	1897	G	Sidechain
26	BB	1899	A	Sidechain
26	BB	190	A	Sidechain
26	BB	1900	A	Sidechain
26	BB	1902	C	Sidechain
26	BB	1904	G	Sidechain
26	BB	1906	G	Sidechain
26	BB	1907	G	Sidechain
26	BB	1908	C	Sidechain
26	BB	1909	C	Sidechain
26	BB	191	A	Sidechain
26	BB	1912	A	Sidechain
26	BB	1913	A	Sidechain
26	BB	1914	C	Sidechain
26	BB	1919	A	Sidechain
26	BB	1921	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1923	U	Sidechain
26	BB	1926	U	Sidechain
26	BB	1927	A	Sidechain
26	BB	1929	G	Sidechain
26	BB	193	U	Sidechain
26	BB	1930	G	Sidechain
26	BB	1932	A	Sidechain
26	BB	1933	G	Sidechain
26	BB	1938	A	Sidechain
26	BB	1940	U	Sidechain
26	BB	1945	G	Sidechain
26	BB	1946	U	Sidechain
26	BB	1947	C	Sidechain
26	BB	1949	G	Sidechain
26	BB	195	A	Sidechain
26	BB	1950	G	Sidechain
26	BB	1951	U	Sidechain
26	BB	1952	A	Sidechain
26	BB	1953	A	Sidechain
26	BB	1954	G	Sidechain
26	BB	1955	U	Sidechain
26	BB	1958	C	Sidechain
26	BB	1959	G	Sidechain
26	BB	1960	A	Sidechain
26	BB	1964	G	Sidechain
26	BB	1966	A	Sidechain
26	BB	1968	G	Sidechain
26	BB	1969	A	Sidechain
26	BB	197	A	Sidechain
26	BB	1970	A	Sidechain
26	BB	1971	U	Sidechain
26	BB	1973	G	Sidechain
26	BB	1975	G	Sidechain
26	BB	1976	U	Sidechain
26	BB	1977	A	Sidechain
26	BB	1978	A	Sidechain
26	BB	1979	U	Sidechain
26	BB	198	C	Sidechain
26	BB	1981	A	Sidechain
26	BB	1982	U	Sidechain
26	BB	1983	G	Sidechain
26	BB	1984	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	1986	C	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
26	BB	1993	U	Sidechain
26	BB	1994	C	Sidechain
26	BB	1995	U	Sidechain
26	BB	1996	C	Sidechain
26	BB	1999	C	Sidechain
26	BB	2	G	Sidechain
26	BB	200	U	Sidechain
26	BB	2002	G	Sidechain
26	BB	2003	A	Sidechain
26	BB	2004	G	Sidechain
26	BB	2005	A	Sidechain
26	BB	2006	C	Sidechain
26	BB	2008	C	Sidechain
26	BB	201	C	Sidechain
26	BB	2010	G	Sidechain
26	BB	2014	A	Sidechain
26	BB	2015	A	Sidechain
26	BB	2016	U	Sidechain
26	BB	2023	C	Sidechain
26	BB	2025	C	Sidechain
26	BB	2027	G	Sidechain
26	BB	2029	G	Sidechain
26	BB	2031	A	Sidechain
26	BB	2032	G	Sidechain
26	BB	2035	G	Sidechain
26	BB	2038	G	Sidechain
26	BB	2039	U	Sidechain
26	BB	204	A	Sidechain
26	BB	2040	G	Sidechain
26	BB	2041	U	Sidechain
26	BB	2042	A	Sidechain
26	BB	2044	C	Sidechain
26	BB	2045	C	Sidechain
26	BB	2046	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2047	C	Sidechain
26	BB	2048	G	Sidechain
26	BB	2049	G	Sidechain
26	BB	205	G	Sidechain
26	BB	2051	A	Sidechain
26	BB	2054	A	Sidechain
26	BB	2058	A	Sidechain
26	BB	206	U	Sidechain
26	BB	2060	A	Sidechain
26	BB	2061	G	Sidechain
26	BB	2062	A	Sidechain
26	BB	2063	C	Sidechain
26	BB	2067	G	Sidechain
26	BB	2068	U	Sidechain
26	BB	207	A	Sidechain
26	BB	2070	A	Sidechain
26	BB	2073	C	Sidechain
26	BB	2074	U	Sidechain
26	BB	2076	U	Sidechain
26	BB	2077	A	Sidechain
26	BB	2078	C	Sidechain
26	BB	2081	U	Sidechain
26	BB	2082	A	Sidechain
26	BB	2083	G	Sidechain
26	BB	2085	U	Sidechain
26	BB	2087	G	Sidechain
26	BB	2088	A	Sidechain
26	BB	2089	C	Sidechain
26	BB	2090	A	Sidechain
26	BB	2091	C	Sidechain
26	BB	2093	G	Sidechain
26	BB	2094	A	Sidechain
26	BB	2095	A	Sidechain
26	BB	2098	U	Sidechain
26	BB	210	C	Sidechain
26	BB	2100	G	Sidechain
26	BB	2101	A	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

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Mol	Chain	Res	Type	Group
26	BB	2108	A	Sidechain
26	BB	2109	U	Sidechain
26	BB	211	C	Sidechain
26	BB	2110	G	Sidechain
26	BB	2115	G	Sidechain
26	BB	2116	G	Sidechain
26	BB	2117	A	Sidechain
26	BB	2119	A	Sidechain
26	BB	212	G	Sidechain
26	BB	2120	G	Sidechain
26	BB	2121	G	Sidechain
26	BB	2122	U	Sidechain
26	BB	2123	G	Sidechain
26	BB	2124	G	Sidechain
26	BB	2125	G	Sidechain
26	BB	2126	A	Sidechain
26	BB	2127	G	Sidechain
26	BB	2130	U	Sidechain
26	BB	2132	U	Sidechain
26	BB	2135	A	Sidechain
26	BB	2136	G	Sidechain
26	BB	2138	G	Sidechain
26	BB	214	G	Sidechain
26	BB	2140	G	Sidechain
26	BB	2142	A	Sidechain
26	BB	2143	C	Sidechain
26	BB	2146	C	Sidechain
26	BB	2148	G	Sidechain
26	BB	2149	U	Sidechain
26	BB	215	G	Sidechain
26	BB	2150	C	Sidechain
26	BB	2151	U	Sidechain
26	BB	2152	G	Sidechain
26	BB	2153	C	Sidechain
26	BB	2155	U	Sidechain
26	BB	2156	G	Sidechain
26	BB	2158	A	Sidechain
26	BB	2159	G	Sidechain
26	BB	216	A	Sidechain
26	BB	2160	C	Sidechain
26	BB	2161	C	Sidechain
26	BB	2163	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2166	U	Sidechain
26	BB	2168	G	Sidechain
26	BB	2169	A	Sidechain
26	BB	2170	A	Sidechain
26	BB	2171	A	Sidechain
26	BB	2172	U	Sidechain
26	BB	2173	A	Sidechain
26	BB	2174	C	Sidechain
26	BB	2175	C	Sidechain
26	BB	2179	C	Sidechain
26	BB	2181	U	Sidechain
26	BB	2182	U	Sidechain
26	BB	2183	A	Sidechain
26	BB	2184	A	Sidechain
26	BB	2186	G	Sidechain
26	BB	2187	U	Sidechain
26	BB	2188	U	Sidechain
26	BB	2189	U	Sidechain
26	BB	219	A	Sidechain
26	BB	2190	G	Sidechain
26	BB	2192	U	Sidechain
26	BB	2194	U	Sidechain
26	BB	2197	U	Sidechain
26	BB	2198	A	Sidechain
26	BB	220	G	Sidechain
26	BB	2201	G	Sidechain
26	BB	2203	U	Sidechain
26	BB	2204	G	Sidechain
26	BB	2205	A	Sidechain
26	BB	2208	C	Sidechain
26	BB	2209	G	Sidechain
26	BB	221	A	Sidechain
26	BB	2210	U	Sidechain
26	BB	2211	A	Sidechain
26	BB	2213	U	Sidechain
26	BB	2214	C	Sidechain
26	BB	2215	C	Sidechain
26	BB	2216	G	Sidechain
26	BB	2217	G	Sidechain
26	BB	2218	G	Sidechain
26	BB	222	A	Sidechain
26	BB	2220	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2221	G	Sidechain
26	BB	2222	C	Sidechain
26	BB	2224	G	Sidechain
26	BB	2225	A	Sidechain
26	BB	223	A	Sidechain
26	BB	2230	G	Sidechain
26	BB	2231	U	Sidechain
26	BB	2233	U	Sidechain
26	BB	2239	G	Sidechain
26	BB	2242	G	Sidechain
26	BB	2243	U	Sidechain
26	BB	2244	U	Sidechain
26	BB	2245	U	Sidechain
26	BB	2247	A	Sidechain
26	BB	2248	C	Sidechain
26	BB	2249	U	Sidechain
26	BB	2250	G	Sidechain
26	BB	2252	G	Sidechain
26	BB	2254	C	Sidechain
26	BB	2256	G	Sidechain
26	BB	2259	U	Sidechain
26	BB	2261	C	Sidechain
26	BB	2264	C	Sidechain
26	BB	2265	U	Sidechain
26	BB	2266	A	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	2272	U	Sidechain
26	BB	2273	A	Sidechain
26	BB	2274	A	Sidechain
26	BB	2276	G	Sidechain
26	BB	2277	G	Sidechain
26	BB	228	C	Sidechain
26	BB	2281	A	Sidechain
26	BB	2283	C	Sidechain
26	BB	2284	A	Sidechain
26	BB	2286	G	Sidechain
26	BB	2287	A	Sidechain
26	BB	2288	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2292	U	Sidechain
26	BB	2293	G	Sidechain
26	BB	2295	C	Sidechain
26	BB	2296	U	Sidechain
26	BB	2297	A	Sidechain
26	BB	2298	A	Sidechain
26	BB	23	G	Sidechain
26	BB	230	G	Sidechain
26	BB	2302	U	Sidechain
26	BB	2303	G	Sidechain
26	BB	2304	G	Sidechain
26	BB	2306	C	Sidechain
26	BB	2307	G	Sidechain
26	BB	2308	G	Sidechain
26	BB	231	A	Sidechain
26	BB	2311	A	Sidechain
26	BB	2312	U	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	2322	A	Sidechain
26	BB	2323	G	Sidechain
26	BB	2324	U	Sidechain
26	BB	2325	G	Sidechain
26	BB	2327	A	Sidechain
26	BB	2329	U	Sidechain
26	BB	233	A	Sidechain
26	BB	2331	G	Sidechain
26	BB	2332	C	Sidechain
26	BB	2335	A	Sidechain
26	BB	2337	G	Sidechain
26	BB	234	U	Sidechain
26	BB	2341	G	Sidechain
26	BB	2342	C	Sidechain
26	BB	2345	G	Sidechain
26	BB	2348	U	Sidechain
26	BB	2349	G	Sidechain
26	BB	2350	C	Sidechain
26	BB	2351	G	Sidechain
26	BB	2353	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2354	C	Sidechain
26	BB	2355	G	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	2367	G	Sidechain
26	BB	2368	C	Sidechain
26	BB	2369	A	Sidechain
26	BB	2370	G	Sidechain
26	BB	2372	U	Sidechain
26	BB	2375	G	Sidechain
26	BB	2376	A	Sidechain
26	BB	2377	A	Sidechain
26	BB	2379	G	Sidechain
26	BB	2386	A	Sidechain
26	BB	2387	U	Sidechain
26	BB	2389	G	Sidechain
26	BB	2390	U	Sidechain
26	BB	2391	G	Sidechain
26	BB	2392	A	Sidechain
26	BB	2393	U	Sidechain
26	BB	2396	G	Sidechain
26	BB	2397	G	Sidechain
26	BB	2399	G	Sidechain
26	BB	2400	G	Sidechain
26	BB	2401	U	Sidechain
26	BB	2402	U	Sidechain
26	BB	2406	A	Sidechain
26	BB	2407	A	Sidechain
26	BB	2409	G	Sidechain
26	BB	2411	A	Sidechain
26	BB	2412	A	Sidechain
26	BB	2413	G	Sidechain
26	BB	2414	G	Sidechain
26	BB	2415	G	Sidechain
26	BB	2419	U	Sidechain
26	BB	2421	G	Sidechain
26	BB	2423	U	Sidechain
26	BB	2424	C	Sidechain
26	BB	2428	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2429	G	Sidechain
26	BB	243	U	Sidechain
26	BB	2432	A	Sidechain
26	BB	2434	A	Sidechain
26	BB	2437	G	Sidechain
26	BB	2442	C	Sidechain
26	BB	2444	G	Sidechain
26	BB	2446	G	Sidechain
26	BB	2447	G	Sidechain
26	BB	2455	G	Sidechain
26	BB	2458	G	Sidechain
26	BB	2461	A	Sidechain
26	BB	2464	G	Sidechain
26	BB	2466	C	Sidechain
26	BB	2467	C	Sidechain
26	BB	247	G	Sidechain
26	BB	2471	A	Sidechain
26	BB	2472	G	Sidechain
26	BB	2474	U	Sidechain
26	BB	2475	C	Sidechain
26	BB	2477	U	Sidechain
26	BB	2479	U	Sidechain
26	BB	248	G	Sidechain
26	BB	2481	G	Sidechain
26	BB	2482	A	Sidechain
26	BB	2483	C	Sidechain
26	BB	2484	G	Sidechain
26	BB	2488	G	Sidechain
26	BB	2489	U	Sidechain
26	BB	249	C	Sidechain
26	BB	2492	U	Sidechain
26	BB	2493	U	Sidechain
26	BB	2494	G	Sidechain
26	BB	2495	G	Sidechain
26	BB	2497	A	Sidechain
26	BB	25	U	Sidechain
26	BB	250	G	Sidechain
26	BB	2500	U	Sidechain
26	BB	2501	C	Sidechain
26	BB	2502	G	Sidechain
26	BB	2506	U	Sidechain
26	BB	2507	C	Sidechain

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Mol	Chain	Res	Type	Group
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	2515	C	Sidechain
26	BB	2517	C	Sidechain
26	BB	2519	U	Sidechain
26	BB	252	G	Sidechain
26	BB	2520	C	Sidechain
26	BB	2521	C	Sidechain
26	BB	2522	U	Sidechain
26	BB	2524	G	Sidechain
26	BB	2525	G	Sidechain
26	BB	2527	C	Sidechain
26	BB	2528	U	Sidechain
26	BB	2529	G	Sidechain
26	BB	2531	A	Sidechain
26	BB	2532	G	Sidechain
26	BB	2534	A	Sidechain
26	BB	2535	G	Sidechain
26	BB	2536	G	Sidechain
26	BB	2537	U	Sidechain
26	BB	2538	C	Sidechain
26	BB	254	G	Sidechain
26	BB	2542	A	Sidechain
26	BB	2543	G	Sidechain
26	BB	2545	G	Sidechain
26	BB	2546	U	Sidechain
26	BB	2548	U	Sidechain
26	BB	2549	G	Sidechain
26	BB	255	A	Sidechain
26	BB	2550	G	Sidechain
26	BB	2553	G	Sidechain
26	BB	2554	U	Sidechain
26	BB	2555	U	Sidechain
26	BB	2557	G	Sidechain
26	BB	2558	C	Sidechain
26	BB	2559	C	Sidechain
26	BB	256	A	Sidechain
26	BB	2561	U	Sidechain
26	BB	2562	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2563	U	Sidechain
26	BB	2564	A	Sidechain
26	BB	2566	A	Sidechain
26	BB	2567	G	Sidechain
26	BB	2568	U	Sidechain
26	BB	2569	G	Sidechain
26	BB	2570	G	Sidechain
26	BB	2571	U	Sidechain
26	BB	2574	G	Sidechain
26	BB	2576	G	Sidechain
26	BB	258	G	Sidechain
26	BB	2581	G	Sidechain
26	BB	2582	G	Sidechain
26	BB	2583	G	Sidechain
26	BB	2584	U	Sidechain
26	BB	2585	U	Sidechain
26	BB	2587	A	Sidechain
26	BB	2588	G	Sidechain
26	BB	2589	A	Sidechain
26	BB	259	G	Sidechain
26	BB	2590	A	Sidechain
26	BB	2591	C	Sidechain
26	BB	2593	U	Sidechain
26	BB	2597	G	Sidechain
26	BB	2598	A	Sidechain
26	BB	2599	G	Sidechain
26	BB	26	G	Sidechain
26	BB	260	G	Sidechain
26	BB	2601	C	Sidechain
26	BB	2602	A	Sidechain
26	BB	2606	C	Sidechain
26	BB	2607	G	Sidechain
26	BB	2608	G	Sidechain
26	BB	2609	U	Sidechain
26	BB	261	G	Sidechain
26	BB	2610	C	Sidechain
26	BB	2611	C	Sidechain
26	BB	2613	U	Sidechain
26	BB	2615	U	Sidechain
26	BB	2616	C	Sidechain
26	BB	2617	U	Sidechain
26	BB	2618	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	262	A	Sidechain
26	BB	2621	G	Sidechain
26	BB	2624	G	Sidechain
26	BB	2627	G	Sidechain
26	BB	2628	C	Sidechain
26	BB	263	G	Sidechain
26	BB	2630	G	Sidechain
26	BB	2633	G	Sidechain
26	BB	2636	C	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	2646	C	Sidechain
26	BB	2647	U	Sidechain
26	BB	2648	G	Sidechain
26	BB	265	A	Sidechain
26	BB	2651	C	Sidechain
26	BB	2653	U	Sidechain
26	BB	2654	A	Sidechain
26	BB	2655	G	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	2667	C	Sidechain
26	BB	267	C	Sidechain
26	BB	2671	G	Sidechain
26	BB	2673	G	Sidechain
26	BB	2674	G	Sidechain
26	BB	2675	A	Sidechain
26	BB	2677	G	Sidechain
26	BB	2679	A	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	268	C	Sidechain
26	BB	2680	U	Sidechain
26	BB	2681	C	Sidechain
26	BB	2682	A	Sidechain
26	BB	2685	G	Sidechain
26	BB	2687	U	Sidechain
26	BB	2688	G	Sidechain
26	BB	2689	U	Sidechain
26	BB	2690	U	Sidechain
26	BB	2691	C	Sidechain
26	BB	2692	G	Sidechain
26	BB	2694	G	Sidechain
26	BB	2695	U	Sidechain
26	BB	2697	G	Sidechain
26	BB	27	G	Sidechain
26	BB	2701	U	Sidechain
26	BB	2703	C	Sidechain
26	BB	2704	C	Sidechain
26	BB	2705	A	Sidechain
26	BB	2706	A	Sidechain
26	BB	2708	G	Sidechain
26	BB	2709	G	Sidechain
26	BB	271	G	Sidechain
26	BB	2712	C	Sidechain
26	BB	2713	U	Sidechain
26	BB	2715	C	Sidechain
26	BB	2716	C	Sidechain
26	BB	2717	C	Sidechain
26	BB	2718	G	Sidechain
26	BB	2720	U	Sidechain
26	BB	2724	U	Sidechain
26	BB	2725	A	Sidechain
26	BB	2726	A	Sidechain
26	BB	2728	U	Sidechain
26	BB	273	G	Sidechain
26	BB	2730	C	Sidechain
26	BB	2731	G	Sidechain
26	BB	2732	G	Sidechain
26	BB	2735	G	Sidechain
26	BB	2736	A	Sidechain
26	BB	2739	U	Sidechain
26	BB	274	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2741	A	Sidechain
26	BB	2742	G	Sidechain
26	BB	2743	U	Sidechain
26	BB	2744	G	Sidechain
26	BB	2745	C	Sidechain
26	BB	2746	U	Sidechain
26	BB	275	C	Sidechain
26	BB	2750	A	Sidechain
26	BB	2751	G	Sidechain
26	BB	2752	C	Sidechain
26	BB	2753	A	Sidechain
26	BB	2755	C	Sidechain
26	BB	2757	A	Sidechain
26	BB	2758	A	Sidechain
26	BB	276	U	Sidechain
26	BB	2760	C	Sidechain
26	BB	2761	A	Sidechain
26	BB	2763	G	Sidechain
26	BB	2765	A	Sidechain
26	BB	2766	A	Sidechain
26	BB	2767	C	Sidechain
26	BB	2769	U	Sidechain
26	BB	277	G	Sidechain
26	BB	2774	C	Sidechain
26	BB	2775	G	Sidechain
26	BB	2777	G	Sidechain
26	BB	2779	U	Sidechain
26	BB	2780	G	Sidechain
26	BB	2782	G	Sidechain
26	BB	2784	U	Sidechain
26	BB	2785	C	Sidechain
26	BB	2786	U	Sidechain
26	BB	279	A	Sidechain
26	BB	2790	U	Sidechain
26	BB	2791	G	Sidechain
26	BB	2792	A	Sidechain
26	BB	2793	C	Sidechain
26	BB	2794	C	Sidechain
26	BB	2795	C	Sidechain
26	BB	2796	U	Sidechain
26	BB	2797	U	Sidechain
26	BB	2798	U	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	28	A	Sidechain
26	BB	2801	G	Sidechain
26	BB	2803	G	Sidechain
26	BB	2805	C	Sidechain
26	BB	2806	C	Sidechain
26	BB	2807	U	Sidechain
26	BB	2808	G	Sidechain
26	BB	281	C	Sidechain
26	BB	2810	A	Sidechain
26	BB	2812	G	Sidechain
26	BB	2815	C	Sidechain
26	BB	2816	G	Sidechain
26	BB	2818	U	Sidechain
26	BB	2819	G	Sidechain
26	BB	2820	A	Sidechain
26	BB	2824	C	Sidechain
26	BB	2829	A	Sidechain
26	BB	2830	C	Sidechain
26	BB	2831	G	Sidechain
26	BB	2832	U	Sidechain
26	BB	2835	A	Sidechain
26	BB	2836	U	Sidechain
26	BB	2837	A	Sidechain
26	BB	284	U	Sidechain
26	BB	2840	C	Sidechain
26	BB	2841	C	Sidechain
26	BB	2845	U	Sidechain
26	BB	2847	U	Sidechain
26	BB	2848	G	Sidechain
26	BB	285	G	Sidechain
26	BB	2850	A	Sidechain
26	BB	2852	G	Sidechain
26	BB	2854	G	Sidechain
26	BB	2856	A	Sidechain
26	BB	2857	G	Sidechain
26	BB	2859	G	Sidechain
26	BB	2860	A	Sidechain
26	BB	2861	U	Sidechain
26	BB	2862	G	Sidechain
26	BB	2864	G	Sidechain
26	BB	2866	U	Sidechain
26	BB	287	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	2870	C	Sidechain
26	BB	2872	A	Sidechain
26	BB	2873	A	Sidechain
26	BB	2874	C	Sidechain
26	BB	2877	G	Sidechain
26	BB	2879	A	Sidechain
26	BB	288	U	Sidechain
26	BB	2882	A	Sidechain
26	BB	2884	U	Sidechain
26	BB	2885	G	Sidechain
26	BB	2886	A	Sidechain
26	BB	2890	G	Sidechain
26	BB	2893	A	Sidechain
26	BB	2894	G	Sidechain
26	BB	2896	C	Sidechain
26	BB	2899	A	Sidechain
26	BB	29	U	Sidechain
26	BB	290	U	Sidechain
26	BB	2900	A	Sidechain
26	BB	2902	C	Sidechain
26	BB	2903	U	Sidechain
26	BB	291	G	Sidechain
26	BB	293	U	Sidechain
26	BB	294	A	Sidechain
26	BB	295	G	Sidechain
26	BB	296	U	Sidechain
26	BB	297	G	Sidechain
26	BB	298	G	Sidechain
26	BB	299	A	Sidechain
26	BB	3	U	Sidechain
26	BB	30	G	Sidechain
26	BB	300	A	Sidechain
26	BB	301	G	Sidechain
26	BB	302	C	Sidechain
26	BB	303	G	Sidechain
26	BB	308	G	Sidechain
26	BB	309	A	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	315	G	Sidechain
26	BB	316	C	Sidechain
26	BB	317	G	Sidechain
26	BB	318	C	Sidechain
26	BB	319	G	Sidechain
26	BB	321	U	Sidechain
26	BB	322	A	Sidechain
26	BB	327	G	Sidechain
26	BB	328	U	Sidechain
26	BB	329	G	Sidechain
26	BB	331	C	Sidechain
26	BB	333	G	Sidechain
26	BB	336	C	Sidechain
26	BB	338	G	Sidechain
26	BB	339	U	Sidechain
26	BB	342	A	Sidechain
26	BB	343	C	Sidechain
26	BB	347	A	Sidechain
26	BB	35	G	Sidechain
26	BB	350	G	Sidechain
26	BB	358	U	Sidechain
26	BB	359	G	Sidechain
26	BB	36	G	Sidechain
26	BB	361	G	Sidechain
26	BB	365	U	Sidechain
26	BB	366	C	Sidechain
26	BB	367	G	Sidechain
26	BB	368	A	Sidechain
26	BB	369	U	Sidechain
26	BB	370	G	Sidechain
26	BB	371	A	Sidechain
26	BB	372	G	Sidechain
26	BB	373	U	Sidechain
26	BB	374	A	Sidechain
26	BB	375	G	Sidechain
26	BB	377	G	Sidechain
26	BB	378	C	Sidechain
26	BB	380	G	Sidechain
26	BB	384	A	Sidechain
26	BB	386	G	Sidechain
26	BB	387	U	Sidechain
26	BB	388	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	389	G	Sidechain
26	BB	390	U	Sidechain
26	BB	391	A	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	4	U	Sidechain
26	BB	40	U	Sidechain
26	BB	401	A	Sidechain
26	BB	403	U	Sidechain
26	BB	406	G	Sidechain
26	BB	407	G	Sidechain
26	BB	409	G	Sidechain
26	BB	411	G	Sidechain
26	BB	415	A	Sidechain
26	BB	417	C	Sidechain
26	BB	421	C	Sidechain
26	BB	422	A	Sidechain
26	BB	426	C	Sidechain
26	BB	427	U	Sidechain
26	BB	428	A	Sidechain
26	BB	430	A	Sidechain
26	BB	432	A	Sidechain
26	BB	434	U	Sidechain
26	BB	435	C	Sidechain
26	BB	436	C	Sidechain
26	BB	437	U	Sidechain
26	BB	441	U	Sidechain
26	BB	443	A	Sidechain
26	BB	446	G	Sidechain
26	BB	447	A	Sidechain
26	BB	448	U	Sidechain
26	BB	45	G	Sidechain
26	BB	451	U	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	46	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	461	C	Sidechain
26	BB	462	C	Sidechain
26	BB	463	G	Sidechain
26	BB	464	U	Sidechain
26	BB	465	G	Sidechain
26	BB	466	A	Sidechain
26	BB	467	G	Sidechain
26	BB	468	G	Sidechain
26	BB	47	C	Sidechain
26	BB	470	A	Sidechain
26	BB	472	A	Sidechain
26	BB	473	G	Sidechain
26	BB	474	G	Sidechain
26	BB	475	C	Sidechain
26	BB	476	G	Sidechain
26	BB	477	A	Sidechain
26	BB	480	A	Sidechain
26	BB	481	G	Sidechain
26	BB	483	A	Sidechain
26	BB	484	C	Sidechain
26	BB	485	C	Sidechain
26	BB	488	G	Sidechain
26	BB	490	C	Sidechain
26	BB	493	G	Sidechain
26	BB	496	G	Sidechain
26	BB	497	A	Sidechain
26	BB	498	G	Sidechain
26	BB	50	U	Sidechain
26	BB	500	G	Sidechain
26	BB	501	A	Sidechain
26	BB	502	A	Sidechain
26	BB	506	G	Sidechain
26	BB	508	A	Sidechain
26	BB	513	A	Sidechain
26	BB	514	A	Sidechain
26	BB	515	A	Sidechain
26	BB	516	C	Sidechain
26	BB	518	G	Sidechain
26	BB	519	U	Sidechain
26	BB	521	U	Sidechain
26	BB	522	A	Sidechain
26	BB	523	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	524	G	Sidechain
26	BB	525	U	Sidechain
26	BB	526	A	Sidechain
26	BB	527	C	Sidechain
26	BB	528	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	538	A	Sidechain
26	BB	539	G	Sidechain
26	BB	54	G	Sidechain
26	BB	540	C	Sidechain
26	BB	543	G	Sidechain
26	BB	544	C	Sidechain
26	BB	545	U	Sidechain
26	BB	546	U	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	552	U	Sidechain
26	BB	553	G	Sidechain
26	BB	554	U	Sidechain
26	BB	555	G	Sidechain
26	BB	556	A	Sidechain
26	BB	557	C	Sidechain
26	BB	558	U	Sidechain
26	BB	559	G	Sidechain
26	BB	56	A	Sidechain
26	BB	563	A	Sidechain
26	BB	565	C	Sidechain
26	BB	566	U	Sidechain
26	BB	567	U	Sidechain
26	BB	569	U	Sidechain
26	BB	572	A	Sidechain
26	BB	576	U	Sidechain
26	BB	577	G	Sidechain
26	BB	579	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	583	G	Sidechain
26	BB	584	C	Sidechain
26	BB	587	C	Sidechain
26	BB	588	U	Sidechain
26	BB	591	U	Sidechain
26	BB	592	A	Sidechain
26	BB	593	U	Sidechain
26	BB	599	A	Sidechain
26	BB	60	G	Sidechain
26	BB	600	G	Sidechain
26	BB	601	C	Sidechain
26	BB	604	G	Sidechain
26	BB	605	G	Sidechain
26	BB	606	U	Sidechain
26	BB	608	A	Sidechain
26	BB	609	A	Sidechain
26	BB	61	C	Sidechain
26	BB	611	C	Sidechain
26	BB	612	G	Sidechain
26	BB	614	A	Sidechain
26	BB	616	A	Sidechain
26	BB	62	U	Sidechain
26	BB	621	A	Sidechain
26	BB	623	C	Sidechain
26	BB	624	C	Sidechain
26	BB	627	A	Sidechain
26	BB	628	G	Sidechain
26	BB	629	G	Sidechain
26	BB	63	A	Sidechain
26	BB	630	G	Sidechain
26	BB	631	A	Sidechain
26	BB	634	C	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	646	U	Sidechain
26	BB	647	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	65	U	Sidechain
26	BB	651	G	Sidechain
26	BB	653	U	Sidechain
26	BB	654	A	Sidechain
26	BB	656	G	Sidechain
26	BB	658	U	Sidechain
26	BB	659	G	Sidechain
26	BB	66	C	Sidechain
26	BB	663	G	Sidechain
26	BB	664	G	Sidechain
26	BB	666	A	Sidechain
26	BB	667	U	Sidechain
26	BB	672	C	Sidechain
26	BB	673	C	Sidechain
26	BB	674	G	Sidechain
26	BB	676	A	Sidechain
26	BB	677	A	Sidechain
26	BB	679	C	Sidechain
26	BB	68	G	Sidechain
26	BB	680	C	Sidechain
26	BB	681	G	Sidechain
26	BB	682	G	Sidechain
26	BB	683	U	Sidechain
26	BB	684	G	Sidechain
26	BB	685	A	Sidechain
26	BB	686	U	Sidechain
26	BB	688	U	Sidechain
26	BB	693	A	Sidechain
26	BB	695	G	Sidechain
26	BB	696	G	Sidechain
26	BB	697	G	Sidechain
26	BB	698	C	Sidechain
26	BB	699	A	Sidechain
26	BB	70	G	Sidechain
26	BB	700	G	Sidechain
26	BB	705	A	Sidechain
26	BB	706	A	Sidechain
26	BB	707	G	Sidechain
26	BB	708	G	Sidechain
26	BB	710	U	Sidechain
26	BB	711	G	Sidechain
26	BB	713	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	715	A	Sidechain
26	BB	717	C	Sidechain
26	BB	719	C	Sidechain
26	BB	720	U	Sidechain
26	BB	721	A	Sidechain
26	BB	725	G	Sidechain
26	BB	726	G	Sidechain
26	BB	729	G	Sidechain
26	BB	734	A	Sidechain
26	BB	738	G	Sidechain
26	BB	739	A	Sidechain
26	BB	74	A	Sidechain
26	BB	740	C	Sidechain
26	BB	743	A	Sidechain
26	BB	744	U	Sidechain
26	BB	748	G	Sidechain
26	BB	749	A	Sidechain
26	BB	750	A	Sidechain
26	BB	751	A	Sidechain
26	BB	752	A	Sidechain
26	BB	755	U	Sidechain
26	BB	756	A	Sidechain
26	BB	758	C	Sidechain
26	BB	759	G	Sidechain
26	BB	76	C	Sidechain
26	BB	761	A	Sidechain
26	BB	762	U	Sidechain
26	BB	763	G	Sidechain
26	BB	765	C	Sidechain
26	BB	767	U	Sidechain
26	BB	768	G	Sidechain
26	BB	77	G	Sidechain
26	BB	770	G	Sidechain
26	BB	771	G	Sidechain
26	BB	772	C	Sidechain
26	BB	774	G	Sidechain
26	BB	775	G	Sidechain
26	BB	777	G	Sidechain
26	BB	778	G	Sidechain
26	BB	779	U	Sidechain
26	BB	78	U	Sidechain
26	BB	780	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	781	A	Sidechain
26	BB	783	A	Sidechain
26	BB	784	G	Sidechain
26	BB	785	G	Sidechain
26	BB	787	C	Sidechain
26	BB	788	A	Sidechain
26	BB	789	A	Sidechain
26	BB	79	C	Sidechain
26	BB	790	U	Sidechain
26	BB	794	A	Sidechain
26	BB	797	G	Sidechain
26	BB	8	C	Sidechain
26	BB	800	A	Sidechain
26	BB	801	G	Sidechain
26	BB	802	A	Sidechain
26	BB	803	U	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	813	U	Sidechain
26	BB	814	C	Sidechain
26	BB	815	C	Sidechain
26	BB	816	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	822	G	Sidechain
26	BB	823	C	Sidechain
26	BB	825	A	Sidechain
26	BB	827	U	Sidechain
26	BB	828	U	Sidechain
26	BB	829	A	Sidechain
26	BB	83	A	Sidechain
26	BB	831	G	Sidechain
26	BB	834	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	835	C	Sidechain
26	BB	836	G	Sidechain
26	BB	837	C	Sidechain
26	BB	838	C	Sidechain
26	BB	839	U	Sidechain
26	BB	841	G	Sidechain
26	BB	842	U	Sidechain
26	BB	844	A	Sidechain
26	BB	846	U	Sidechain
26	BB	849	A	Sidechain
26	BB	85	G	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	858	G	Sidechain
26	BB	859	G	Sidechain
26	BB	86	G	Sidechain
26	BB	864	G	Sidechain
26	BB	865	C	Sidechain
26	BB	867	C	Sidechain
26	BB	868	U	Sidechain
26	BB	870	U	Sidechain
26	BB	872	U	Sidechain
26	BB	874	G	Sidechain
26	BB	875	G	Sidechain
26	BB	877	A	Sidechain
26	BB	881	G	Sidechain
26	BB	882	G	Sidechain
26	BB	884	U	Sidechain
26	BB	885	C	Sidechain
26	BB	887	U	Sidechain
26	BB	888	C	Sidechain
26	BB	889	C	Sidechain
26	BB	890	C	Sidechain
26	BB	891	G	Sidechain
26	BB	892	A	Sidechain
26	BB	894	U	Sidechain
26	BB	896	A	Sidechain
26	BB	898	C	Sidechain
26	BB	9	G	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	90	U	Sidechain
26	BB	900	A	Sidechain
26	BB	901	C	Sidechain
26	BB	903	C	Sidechain
26	BB	904	G	Sidechain
26	BB	906	U	Sidechain
26	BB	907	G	Sidechain
26	BB	909	A	Sidechain
26	BB	91	A	Sidechain
26	BB	910	A	Sidechain
26	BB	913	U	Sidechain
26	BB	914	G	Sidechain
26	BB	915	C	Sidechain
26	BB	916	G	Sidechain
26	BB	917	A	Sidechain
26	BB	919	U	Sidechain
26	BB	921	C	Sidechain
26	BB	922	C	Sidechain
26	BB	923	G	Sidechain
26	BB	924	G	Sidechain
26	BB	925	A	Sidechain
26	BB	929	U	Sidechain
26	BB	93	G	Sidechain
26	BB	930	G	Sidechain
26	BB	931	U	Sidechain
26	BB	934	U	Sidechain
26	BB	935	C	Sidechain
26	BB	936	A	Sidechain
26	BB	938	G	Sidechain
26	BB	939	G	Sidechain
26	BB	940	G	Sidechain
26	BB	942	G	Sidechain
26	BB	943	A	Sidechain
26	BB	944	C	Sidechain
26	BB	948	C	Sidechain
26	BB	949	G	Sidechain
26	BB	954	G	Sidechain
26	BB	956	G	Sidechain
26	BB	957	C	Sidechain
26	BB	958	U	Sidechain
26	BB	959	A	Sidechain
26	BB	96	C	Sidechain

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Mol	Chain	Res	Type	Group
26	BB	966	G	Sidechain
26	BB	968	C	Sidechain
26	BB	969	G	Sidechain
26	BB	970	U	Sidechain
26	BB	971	G	Sidechain
26	BB	973	A	Sidechain
26	BB	975	A	Sidechain
26	BB	976	G	Sidechain
26	BB	978	G	Sidechain
26	BB	979	A	Sidechain
26	BB	980	A	Sidechain
26	BB	982	C	Sidechain
26	BB	983	A	Sidechain
26	BB	985	C	Sidechain
26	BB	989	G	Sidechain
26	BB	991	C	Sidechain
26	BB	993	G	Sidechain
26	BB	995	C	Sidechain
26	BB	996	A	Sidechain
26	BB	997	G	Sidechain
26	BB	998	C	Sidechain
27	BC	71	ARG	Sidechain
28	BD	101	ARG	Sidechain,Peptide
28	BD	102	TYR	Sidechain
28	BD	166	ARG	Sidechain
28	BD	216	ARG	Sidechain
28	BD	237	ARG	Sidechain
28	BD	24	HIS	Sidechain
28	BD	242	HIS	Sidechain
28	BD	38	LYS	Mainchain
28	BD	95	TYR	Sidechain
29	BE	113	SER	Peptide
29	BE	176	ASP	Peptide
29	BE	45	TYR	Sidechain
29	BE	46	ARG	Sidechain
29	BE	59	ARG	Sidechain
29	BE	67	HIS	Sidechain
29	BE	75	ALA	Peptide
29	BE	90	PHE	Peptide
30	BF	101	TYR	Sidechain
30	BF	22	ASP	Mainchain
30	BF	35	TYR	Sidechain

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Mol	Chain	Res	Type	Group
30	BF	40	ARG	Sidechain
30	BF	67	ARG	Sidechain
30	BF	85	PHE	Sidechain
31	BG	102	LEU	Peptide
31	BG	116	LEU	Peptide
31	BG	124	ARG	Peptide
31	BG	149	ARG	Peptide
31	BG	6	TYR	Sidechain
31	BG	76	PHE	Sidechain
31	BG	82	TYR	Sidechain
32	BH	150	TYR	Sidechain
32	BH	164	ALA	Mainchain
32	BH	2	ARG	Sidechain
32	BH	54	ARG	Sidechain
32	BH	68	ARG	Sidechain
32	BH	83	THR	Peptide
33	BI	109	GLU	Peptide,Mainchain
33	BI	25	TYR	Sidechain
34	BJ	127	THR	Peptide
34	BJ	129	PRO	Mainchain
34	BJ	68	PHE	Sidechain
34	BJ	79	THR	Peptide
35	BK	37	PHE	Sidechain
35	BK	4	VAL	Mainchain
35	BK	41	PHE	Sidechain
35	BK	61	TYR	Sidechain
35	BK	74	PRO	Mainchain
36	BL	119	PHE	Sidechain
36	BL	125	TYR	Sidechain
36	BL	13	ARG	Sidechain
36	BL	16	TYR	Sidechain
36	BL	75	TYR	Sidechain
36	BL	77	HIS	Sidechain
36	BL	83	GLY	Peptide
36	BL	98	GLU	Peptide
37	BM	30	ARG	Sidechain
37	BM	31	ARG	Sidechain
37	BM	38	ILE	Mainchain
37	BM	98	ARG	Sidechain
38	BN	100	ILE	Mainchain
38	BN	2	ARG	Sidechain
39	BO	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
39	BO	44	ARG	Sidechain
39	BO	68	PHE	Sidechain
39	BO	81	ARG	Sidechain
40	BP	112	TYR	Sidechain
40	BP	46	ARG	Sidechain
41	BQ	64	TYR	Sidechain
41	BQ	94	ARG	Sidechain
42	BR	100	ARG	Sidechain
42	BR	108	ARG	Sidechain
42	BR	55	HIS	Sidechain
42	BR	88	ARG	Sidechain
42	BR	97	TYR	Sidechain
43	BS	47	ARG	Sidechain
43	BS	5	ARG	Sidechain
43	BS	63	ARG	Sidechain
43	BS	75	TYR	Sidechain
43	BS	78	PHE	Sidechain
43	BS	95	ALA	Peptide
44	BT	13	ARG	Sidechain
44	BT	79	ARG	Sidechain
44	BT	83	TYR	Sidechain
45	BU	60	HIS	Sidechain
46	BV	13	ALA	Peptide
46	BV	49	LYS	Peptide
47	BW	21	ARG	Sidechain
48	BX	31	TYR	Sidechain
48	BX	52	ALA	Mainchain
48	BX	82	TYR	Sidechain
48	BX	91	PHE	Sidechain
48	BX	93	ARG	Sidechain
49	BY	13	ARG	Peptide
49	BY	14	ASP	Peptide
49	BY	16	GLU	Peptide
49	BY	81	ILE	Peptide
50	BZ	73	ARG	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	16599	0	0
2	AB	1627	0	841	0	0
3	AC	993	0	498	0	0
4	AD	1641	0	839	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	1294	0	0
26	BB	62351	0	31277	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	103803	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%)	219 (92%)	10 (4%)	9 (4%)	3 24
6	AF	230/232 (99%)	215 (94%)	10 (4%)	5 (2%)	6 35
7	AG	203/205 (99%)	187 (92%)	13 (6%)	3 (2%)	10 46
8	AH	164/166 (99%)	151 (92%)	11 (7%)	2 (1%)	13 50

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	AI	133/135 (98%)	122 (92%)	10 (8%)	1 (1%)	19	60
10	AJ	176/178 (99%)	164 (93%)	10 (6%)	2 (1%)	14	52
11	AK	127/129 (98%)	119 (94%)	7 (6%)	1 (1%)	19	60
12	AL	127/129 (98%)	114 (90%)	10 (8%)	3 (2%)	6	33
13	AM	101/103 (98%)	92 (91%)	4 (4%)	5 (5%)	2	20
14	AN	126/128 (98%)	111 (88%)	13 (10%)	2 (2%)	9	44
15	AO	121/123 (98%)	105 (87%)	13 (11%)	3 (2%)	5	32
16	AP	115/117 (98%)	109 (95%)	4 (4%)	2 (2%)	9	42
17	AQ	98/100 (98%)	85 (87%)	6 (6%)	7 (7%)	1	14
18	AR	86/88 (98%)	80 (93%)	5 (6%)	1 (1%)	13	50
19	AS	80/82 (98%)	77 (96%)	3 (4%)	0	100	100
20	AT	81/83 (98%)	72 (89%)	7 (9%)	2 (2%)	5	32
21	AU	72/74 (97%)	61 (85%)	7 (10%)	4 (6%)	2	19
22	AV	89/91 (98%)	82 (92%)	6 (7%)	1 (1%)	14	52
23	AW	84/86 (98%)	79 (94%)	4 (5%)	1 (1%)	13	50
24	AX	68/70 (97%)	61 (90%)	4 (6%)	3 (4%)	2	22
27	BC	232/234 (99%)	215 (93%)	13 (6%)	4 (2%)	9	42
28	BD	270/272 (99%)	238 (88%)	23 (8%)	9 (3%)	4	26
29	BE	207/209 (99%)	173 (84%)	27 (13%)	7 (3%)	3	26
30	BF	199/201 (99%)	173 (87%)	17 (8%)	9 (4%)	2	22
31	BG	176/178 (99%)	152 (86%)	13 (7%)	11 (6%)	1	17
32	BH	174/176 (99%)	158 (91%)	13 (8%)	3 (2%)	9	42
33	BI	147/149 (99%)	131 (89%)	11 (8%)	5 (3%)	3	26
34	BJ	162/164 (99%)	157 (97%)	4 (2%)	1 (1%)	25	66
35	BK	139/141 (99%)	133 (96%)	5 (4%)	1 (1%)	22	63
36	BL	140/142 (99%)	119 (85%)	14 (10%)	7 (5%)	2	20
37	BM	121/123 (98%)	109 (90%)	9 (7%)	3 (2%)	5	32
38	BN	142/144 (99%)	126 (89%)	13 (9%)	3 (2%)	7	36
39	BO	134/136 (98%)	122 (91%)	10 (8%)	2 (2%)	10	46
40	BP	125/127 (98%)	116 (93%)	8 (6%)	1 (1%)	19	60
41	BQ	115/117 (98%)	109 (95%)	6 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
42	BR	112/114 (98%)	97 (87%)	12 (11%)	3 (3%)	5 31
43	BS	115/117 (98%)	107 (93%)	5 (4%)	3 (3%)	5 31
44	BT	101/103 (98%)	89 (88%)	7 (7%)	5 (5%)	2 20
45	BU	108/110 (98%)	99 (92%)	6 (6%)	3 (3%)	5 30
46	BV	98/100 (98%)	75 (76%)	19 (19%)	4 (4%)	3 23
47	BW	101/103 (98%)	89 (88%)	10 (10%)	2 (2%)	7 38
48	BX	92/94 (98%)	86 (94%)	5 (5%)	1 (1%)	14 52
49	BY	82/84 (98%)	65 (79%)	12 (15%)	5 (6%)	1 17
50	BZ	75/77 (97%)	67 (89%)	5 (7%)	3 (4%)	3 23
51	B0	61/63 (97%)	56 (92%)	3 (5%)	2 (3%)	4 26
52	B1	56/58 (97%)	54 (96%)	2 (4%)	0	100 100
53	B2	68/70 (97%)	63 (93%)	4 (6%)	1 (2%)	10 46
54	B3	54/56 (96%)	48 (89%)	3 (6%)	3 (6%)	2 19
55	B4	52/54 (96%)	49 (94%)	1 (2%)	2 (4%)	3 24
56	B5	44/46 (96%)	40 (91%)	2 (4%)	2 (4%)	2 22
57	B6	62/64 (97%)	58 (94%)	3 (5%)	1 (2%)	9 44
58	B7	36/38 (95%)	29 (81%)	5 (14%)	2 (6%)	2 19
All	All	6319/6423 (98%)	5707 (90%)	447 (7%)	165 (3%)	8 31

All (165) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
8	AH	77	ASN
13	AM	57	VAL
17	AQ	2	LYS
17	AQ	61	ASN
17	AQ	70	HIS
21	AU	11	ARG
28	BD	64	VAL
28	BD	94	LEU
28	BD	142	ASN
30	BF	62	GLN
30	BF	68	ALA
30	BF	188	MET
31	BG	136	ILE
33	BI	3	VAL

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Mol	Chain	Res	Type
42	BR	25	VAL
43	BS	88	GLU
45	BU	41	LYS
46	BV	39	THR
47	BW	97	SER
50	BZ	18	SER
55	B4	35	LEU
5	AE	17	HIS
5	AE	22	TRP
6	AF	14	VAL
6	AF	163	ARG
6	AF	179	ALA
7	AG	47	LEU
12	AL	106	ASP
13	AM	62	ARG
13	AM	74	VAL
14	AN	52	ARG
22	AV	11	ASP
27	BC	217	THR
28	BD	35	LYS
28	BD	140	VAL
29	BE	119	ALA
29	BE	162	ALA
30	BF	44	ARG
30	BF	79	ARG
36	BL	81	ILE
37	BM	71	ARG
38	BN	19	LEU
40	BP	107	ASN
45	BU	65	ASP
46	BV	9	LYS
46	BV	86	THR
55	B4	52	LYS
58	B7	6	SER
5	AE	127	LYS
11	AK	80	PRO
12	AL	122	ARG
13	AM	42	LEU
15	AO	23	LEU
17	AQ	32	ASP
17	AQ	62	ARG
20	AT	34	GLY

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Mol	Chain	Res	Type
21	AU	5	ARG
24	AX	3	ILE
24	AX	9	GLU
24	AX	24	LYS
27	BC	159	GLY
28	BD	123	ILE
29	BE	173	GLN
30	BF	78	TRP
31	BG	99	PHE
31	BG	132	ARG
31	BG	148	VAL
32	BH	9	VAL
32	BH	61	TRP
33	BI	27	ARG
33	BI	113	SER
33	BI	122	LEU
35	BK	93	ASN
37	BM	6	THR
38	BN	36	LYS
43	BS	5	ARG
43	BS	87	VAL
46	BV	69	ARG
47	BW	74	ALA
53	B2	43	PHE
56	B5	7	PRO
58	B7	16	ILE
5	AE	19	THR
6	AF	145	ALA
7	AG	27	ILE
7	AG	37	PRO
12	AL	128	LYS
13	AM	75	ASP
16	AP	22	TYR
17	AQ	37	ASP
18	AR	87	ARG
28	BD	37	SER
30	BF	96	VAL
30	BF	183	PHE
31	BG	38	GLY
32	BH	170	THR
34	BJ	33	THR
36	BL	65	THR

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Mol	Chain	Res	Type
36	BL	111	LYS
36	BL	120	ARG
39	BO	36	VAL
44	BT	91	GLN
45	BU	89	ALA
49	BY	23	LYS
49	BY	52	CYS
50	BZ	27	ARG
50	BZ	53	LYS
54	B3	2	VAL
54	B3	48	TYR
5	AE	84	LEU
5	AE	205	ALA
6	AF	3	LYS
8	AH	26	GLY
9	AI	54	LEU
10	AJ	13	PRO
10	AJ	84	TYR
14	AN	118	ASN
17	AQ	80	ARG
20	AT	81	ALA
21	AU	18	GLN
27	BC	73	VAL
28	BD	254	LYS
29	BE	109	VAL
29	BE	113	SER
29	BE	170	VAL
30	BF	60	TRP
31	BG	32	LYS
31	BG	66	ILE
31	BG	88	VAL
31	BG	145	VAL
33	BI	93	SER
36	BL	13	ARG
36	BL	44	TYR
38	BN	117	THR
44	BT	101	ILE
48	BX	71	LYS
49	BY	36	ILE
51	B0	23	ARG
5	AE	35	ASN
15	AO	43	LYS

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Mol	Chain	Res	Type
21	AU	33	THR
23	AW	67	HIS
27	BC	55	SER
31	BG	103	ILE
44	BT	43	ASN
49	BY	14	ASP
49	BY	56	HIS
16	AP	6	ILE
39	BO	69	PRO
5	AE	13	VAL
5	AE	123	GLY
29	BE	152	PRO
31	BG	84	ILE
44	BT	54	VAL
56	B5	44	VAL
15	AO	68	GLY
57	B6	31	ILE
28	BD	240	GLY
37	BM	93	GLN
42	BR	91	VAL
44	BT	69	GLY
54	B3	54	ILE
36	BL	79	GLY
42	BR	32	VAL
51	B0	46	VAL

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%)	186 (94%)	12 (6%)	18	44
6	AF	189/189 (100%)	180 (95%)	9 (5%)	25	51
7	AG	172/172 (100%)	166 (96%)	6 (4%)	36	59
8	AH	125/125 (100%)	116 (93%)	9 (7%)	14	39
9	AI	116/116 (100%)	109 (94%)	7 (6%)	19	44

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
10	AJ	146/146 (100%)	138 (94%)	8 (6%)	21 47
11	AK	104/104 (100%)	100 (96%)	4 (4%)	33 57
12	AL	106/106 (100%)	102 (96%)	4 (4%)	33 57
13	AM	90/90 (100%)	84 (93%)	6 (7%)	16 41
14	AN	98/98 (100%)	95 (97%)	3 (3%)	40 62
15	AO	103/103 (100%)	98 (95%)	5 (5%)	25 50
16	AP	95/95 (100%)	94 (99%)	1 (1%)	73 84
17	AQ	83/83 (100%)	79 (95%)	4 (5%)	25 51
18	AR	76/76 (100%)	74 (97%)	2 (3%)	46 66
19	AS	65/65 (100%)	60 (92%)	5 (8%)	13 37
20	AT	77/77 (100%)	71 (92%)	6 (8%)	12 36
21	AU	64/64 (100%)	60 (94%)	4 (6%)	18 43
22	AV	78/78 (100%)	70 (90%)	8 (10%)	7 25
23	AW	65/65 (100%)	62 (95%)	3 (5%)	27 52
24	AX	60/60 (100%)	57 (95%)	3 (5%)	24 49
27	BC	181/181 (100%)	173 (96%)	8 (4%)	28 53
28	BD	217/217 (100%)	210 (97%)	7 (3%)	39 61
29	BE	164/164 (100%)	153 (93%)	11 (7%)	16 41
30	BF	165/165 (100%)	157 (95%)	8 (5%)	25 51
31	BG	149/149 (100%)	141 (95%)	8 (5%)	22 47
32	BH	137/137 (100%)	129 (94%)	8 (6%)	20 45
33	BI	114/114 (100%)	107 (94%)	7 (6%)	18 44
34	BJ	122/122 (100%)	115 (94%)	7 (6%)	20 45
35	BK	109/109 (100%)	106 (97%)	3 (3%)	43 65
36	BL	116/116 (100%)	111 (96%)	5 (4%)	29 53
37	BM	104/104 (100%)	96 (92%)	8 (8%)	13 37
38	BN	103/103 (100%)	96 (93%)	7 (7%)	16 41
39	BO	109/109 (100%)	102 (94%)	7 (6%)	17 42
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%)	94 (95%)	5 (5%)	24 48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
43	BS	89/89 (100%)	88 (99%)	1 (1%)	73 84
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%)	79 (94%)	5 (6%)	19 44
48	BX	78/78 (100%)	73 (94%)	5 (6%)	17 42
49	BY	62/62 (100%)	57 (92%)	5 (8%)	11 35
50	BZ	67/67 (100%)	66 (98%)	1 (2%)	65 80
51	B0	55/55 (100%)	50 (91%)	5 (9%)	9 29
52	B1	48/48 (100%)	43 (90%)	5 (10%)	7 24
53	B2	62/62 (100%)	55 (89%)	7 (11%)	6 21
54	B3	47/47 (100%)	44 (94%)	3 (6%)	17 42
55	B4	48/48 (100%)	47 (98%)	1 (2%)	53 72
56	B5	38/38 (100%)	35 (92%)	3 (8%)	12 35
57	B6	51/51 (100%)	46 (90%)	5 (10%)	8 26
58	B7	34/34 (100%)	32 (94%)	2 (6%)	19 45
All	All	5213/5213 (100%)	4934 (95%)	279 (5%)	26 47

All (279) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
5	AE	6	ARG
5	AE	20	ARG
5	AE	23	ASN
5	AE	43	GLU
5	AE	63	LYS
5	AE	69	VAL
5	AE	108	GLN
5	AE	113	LEU
5	AE	115	ASP
5	AE	131	LYS
5	AE	136	ARG
5	AE	202	ASN
6	AF	13	ILE
6	AF	48	LYS
6	AF	78	LYS

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Mol	Chain	Res	Type
6	AF	96	VAL
6	AF	109	GLU
6	AF	167	TYR
6	AF	178	ARG
6	AF	180	ASP
6	AF	224	LYS
7	AG	9	LYS
7	AG	21	LYS
7	AG	25	ARG
7	AG	48	SER
7	AG	155	LYS
7	AG	199	ILE
8	AH	40	ASP
8	AH	54	GLU
8	AH	82	HIS
8	AH	96	GLN
8	AH	110	MET
8	AH	125	LYS
8	AH	141	ASP
8	AH	146	MET
8	AH	155	LYS
9	AI	1	MET
9	AI	2	ARG
9	AI	5	GLU
9	AI	9	MET
9	AI	88	MET
9	AI	104	LYS
9	AI	132	GLU
10	AJ	6	ILE
10	AJ	9	ARG
10	AJ	13	PRO
10	AJ	42	VAL
10	AJ	49	LEU
10	AJ	57	GLU
10	AJ	91	ARG
10	AJ	152	HIS
11	AK	51	GLU
11	AK	64	TYR
11	AK	72	GLU
11	AK	80	PRO
12	AL	45	MET
12	AL	58	GLU

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Mol	Chain	Res	Type
12	AL	88	GLU
12	AL	105	ARG
13	AM	40	ILE
13	AM	48	ARG
13	AM	59	LYS
13	AM	82	LYS
13	AM	88	MET
13	AM	100	ILE
14	AN	9	LYS
14	AN	45	THR
14	AN	124	LYS
15	AO	28	GLN
15	AO	37	TYR
15	AO	63	THR
15	AO	73	LEU
15	AO	113	ARG
16	AP	10	ASP
17	AQ	31	SER
17	AQ	45	LEU
17	AQ	62	ARG
17	AQ	82	LYS
18	AR	9	LYS
18	AR	49	HIS
19	AS	1	MET
19	AS	12	LYS
19	AS	16	PHE
19	AS	51	ARG
19	AS	52	LEU
20	AT	1	THR
20	AT	3	LYS
20	AT	6	THR
20	AT	64	ARG
20	AT	79	GLU
20	AT	82	VAL
21	AU	8	LYS
21	AU	18	GLN
21	AU	42	ARG
21	AU	65	SER
22	AV	1	PRO
22	AV	6	LYS
22	AV	13	HIS
22	AV	28	LYS

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Mol	Chain	Res	Type
22	AV	33	TRP
22	AV	38	THR
22	AV	76	THR
22	AV	80	ARG
23	AW	30	PHE
23	AW	42	ASP
23	AW	67	HIS
24	AX	1	PRO
24	AX	16	ARG
24	AX	38	GLU
27	BC	22	ASP
27	BC	51	ASP
27	BC	97	MET
27	BC	102	ASP
27	BC	131	LEU
27	BC	174	THR
27	BC	194	VAL
27	BC	205	LYS
28	BD	5	CYS
28	BD	22	GLU
28	BD	76	VAL
28	BD	167	ASP
28	BD	212	TRP
28	BD	244	VAL
28	BD	263	ASP
29	BE	4	LEU
29	BE	33	ARG
29	BE	40	LEU
29	BE	59	ARG
29	BE	67	HIS
29	BE	74	GLU
29	BE	142	VAL
29	BE	159	LYS
29	BE	201	LEU
29	BE	203	VAL
29	BE	207	VAL
30	BF	9	GLN
30	BF	16	GLU
30	BF	41	GLN
30	BF	105	LEU
30	BF	126	VAL
30	BF	140	ASP

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Mol	Chain	Res	Type
30	BF	154	ASP
30	BF	165	HIS
31	BG	20	ASN
31	BG	29	ARG
31	BG	91	ARG
31	BG	116	LEU
31	BG	134	GLN
31	BG	145	VAL
31	BG	148	VAL
31	BG	160	LYS
32	BH	34	ARG
32	BH	37	ASN
32	BH	130	ILE
32	BH	148	ARG
32	BH	152	ARG
32	BH	156	TYR
32	BH	167	VAL
32	BH	175	LYS
33	BI	5	LEU
33	BI	45	GLU
33	BI	75	LEU
33	BI	76	GLU
33	BI	87	GLU
33	BI	94	ILE
33	BI	97	ARG
34	BJ	56	ASN
34	BJ	80	LEU
34	BJ	84	SER
34	BJ	94	LEU
34	BJ	125	LEU
34	BJ	128	LEU
34	BJ	131	TYR
35	BK	9	LYS
35	BK	39	LYS
35	BK	107	GLU
36	BL	15	TRP
36	BL	37	ARG
36	BL	39	LYS
36	BL	86	GLN
36	BL	106	LYS
37	BM	10	VAL
37	BM	32	TYR

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Mol	Chain	Res	Type
37	BM	37	ASP
37	BM	49	ARG
37	BM	51	LYS
37	BM	94	PRO
37	BM	103	VAL
37	BM	104	THR
38	BN	1	MET
38	BN	55	MET
38	BN	66	PHE
38	BN	69	ARG
38	BN	126	ARG
38	BN	141	LYS
38	BN	143	GLU
39	BO	20	LEU
39	BO	22	GLN
39	BO	31	PHE
39	BO	59	ARG
39	BO	73	ILE
39	BO	108	VAL
39	BO	132	THR
40	BP	3	HIS
40	BP	70	THR
40	BP	94	TYR
40	BP	107	ASN
40	BP	118	ARG
41	BQ	56	LYS
41	BQ	88	LYS
41	BQ	117	PHE
42	BR	20	ARG
42	BR	39	LEU
42	BR	43	GLU
42	BR	50	ARG
42	BR	102	ARG
43	BS	56	PHE
44	BT	10	LYS
44	BT	11	GLN
44	BT	47	VAL
44	BT	84	ARG
44	BT	94	THR
45	BU	50	VAL
45	BU	70	LYS
45	BU	95	ARG

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Mol	Chain	Res	Type
46	BV	9	LYS
46	BV	15	HIS
46	BV	39	THR
46	BV	61	LEU
46	BV	72	GLN
46	BV	80	TRP
46	BV	87	LEU
47	BW	71	ILE
47	BW	86	PHE
47	BW	93	ARG
47	BW	94	PHE
47	BW	96	LYS
48	BX	1	MET
48	BX	10	LYS
48	BX	19	ARG
48	BX	49	ASN
48	BX	73	LYS
49	BY	10	ARG
49	BY	13	ARG
49	BY	29	SER
49	BY	42	THR
49	BY	59	PHE
50	BZ	32	LEU
51	B0	1	MET
51	B0	6	LEU
51	B0	24	GLU
51	B0	56	LEU
51	B0	60	LYS
52	B1	5	LYS
52	B1	15	ARG
52	B1	29	ARG
52	B1	33	HIS
52	B1	43	ILE
53	B2	11	GLU
53	B2	24	ILE
53	B2	31	ASP
53	B2	41	HIS
53	B2	43	PHE
53	B2	49	ARG
53	B2	58	ASP
54	B3	2	VAL
54	B3	27	LEU

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Mol	Chain	Res	Type
54	B3	47	TYR
55	B4	37	LYS
56	B5	7	PRO
56	B5	41	ARG
56	B5	42	LEU
57	B6	1	PRO
57	B6	34	LYS
57	B6	46	LYS
57	B6	49	VAL
57	B6	60	CYS
58	B7	1	MET
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 (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1538/1542 (99%)	300 (19%)	101 (6%)
2	AB	74/76 (97%)	24 (32%)	7 (9%)
25	BA	119/120 (99%)	17 (14%)	10 (8%)
26	BB	2898/2904 (99%)	525 (18%)	177 (6%)
3	AC	46/47 (97%)	23 (50%)	12 (26%)
4	AD	76/77 (98%)	10 (13%)	5 (6%)
All	All	4751/4766 (99%)	899 (18%)	312 (6%)

All (899) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	3	A
1	AA	4	U
1	AA	5	U
1	AA	6	G
1	AA	7	A
1	AA	8	A
1	AA	9	G
1	AA	32	A
1	AA	36	C
1	AA	48	C
1	AA	51	A

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Mol	Chain	Res	Type
1	AA	52	C
1	AA	53	A
1	AA	54	C
1	AA	61	G
1	AA	83	C
1	AA	87	C
1	AA	98	A
1	AA	108	G
1	AA	109	A
1	AA	121	U
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	184	G
1	AA	188	C
1	AA	197	A
1	AA	204	G
1	AA	209	U
1	AA	210	C
1	AA	212	G
1	AA	225	C
1	AA	228	A
1	AA	229	U
1	AA	239	U
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
1	AA	267	C
1	AA	272	C
1	AA	280	C
1	AA	281	G

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Mol	Chain	Res	Type
1	AA	282	A
1	AA	289	G
1	AA	293	G
1	AA	306	A
1	AA	307	C
1	AA	316	C
1	AA	317	U
1	AA	319	G
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	344	A
1	AA	345	C
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	360	G
1	AA	367	U
1	AA	372	C
1	AA	373	A
1	AA	374	A
1	AA	381	C
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	412	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

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Mol	Chain	Res	Type
1	AA	479	U
1	AA	481	G
1	AA	485	U
1	AA	486	U
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	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	560	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	642	A
1	AA	650	G
1	AA	653	U
1	AA	682	G
1	AA	687	A
1	AA	688	G
1	AA	702	A
1	AA	718	A

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Mol	Chain	Res	Type
1	AA	719	C
1	AA	724	G
1	AA	729	A
1	AA	755	G
1	AA	760	G
1	AA	765	G
1	AA	766	A
1	AA	783	C
1	AA	791	G
1	AA	793	U
1	AA	805	C
1	AA	810	C
1	AA	812	G
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	820	U
1	AA	821	G
1	AA	828	U
1	AA	829	G
1	AA	834	U
1	AA	841	C
1	AA	842	U
1	AA	843	U
1	AA	844	G
1	AA	845	A
1	AA	846	G
1	AA	870	U
1	AA	871	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

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Mol	Chain	Res	Type
1	AA	945	G
1	AA	960	U
1	AA	961	U
1	AA	962	C
1	AA	966	2MG
1	AA	968	A
1	AA	969	A
1	AA	973	G
1	AA	974	A
1	AA	975	A
1	AA	977	A
1	AA	978	A
1	AA	981	U
1	AA	984	C
1	AA	992	U
1	AA	993	G
1	AA	994	A
1	AA	995	C
1	AA	1004	A
1	AA	1006	G
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	1055	A
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	1109	C
1	AA	1118	U
1	AA	1130	A
1	AA	1135	U
1	AA	1137	C
1	AA	1139	G
1	AA	1149	C
1	AA	1152	A

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Mol	Chain	Res	Type
1	AA	1154	G
1	AA	1159	U
1	AA	1168	U
1	AA	1181	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	1213	A
1	AA	1214	C
1	AA	1215	G
1	AA	1223	C
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	1250	A
1	AA	1254	A
1	AA	1256	A
1	AA	1258	G
1	AA	1264	U
1	AA	1267	C
1	AA	1270	G
1	AA	1278	G
1	AA	1280	A
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

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Mol	Chain	Res	Type
1	AA	1336	C
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	1364	U
1	AA	1368	A
1	AA	1378	C
1	AA	1397	C
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	1452	C
1	AA	1453	G
1	AA	1454	G
1	AA	1457	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	1529	G
1	AA	1530	G
1	AA	1534	A
1	AA	1535	C
1	AA	1537	U
1	AA	1539	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

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Mol	Chain	Res	Type
2	AB	20	H2U
2	AB	21	A
2	AB	23	A
2	AB	24	G
2	AB	34	C
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	73	G
2	AB	74	C
2	AB	75	C
2	AB	76	A
3	AC	14	G
3	AC	15	G
3	AC	16	A
3	AC	20	G
3	AC	21	U
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	33	A
3	AC	34	U
3	AC	40	G
3	AC	42	U
3	AC	43	U
3	AC	46	C
3	AC	47	C
3	AC	48	C
3	AC	50	U
3	AC	51	C
3	AC	53	G

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Mol	Chain	Res	Type
4	AD	8	4SU
4	AD	18	U
4	AD	20	G
4	AD	22	A
4	AD	38	A
4	AD	49	C
4	AD	50	G
4	AD	75	C
4	AD	76	C
4	AD	77	A
25	BA	9	G
25	BA	13	G
25	BA	14	U
25	BA	25	U
25	BA	26	C
25	BA	35	C
25	BA	41	G
25	BA	42	C
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	88	C
25	BA	99	A
25	BA	120	U
26	BB	13	A
26	BB	14	A
26	BB	18	U
26	BB	30	G
26	BB	34	U
26	BB	35	G
26	BB	42	A
26	BB	43	G
26	BB	45	G
26	BB	46	G
26	BB	49	A
26	BB	71	A
26	BB	72	U
26	BB	75	G
26	BB	85	G

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Mol	Chain	Res	Type
26	BB	91	A
26	BB	92	U
26	BB	95	A
26	BB	98	G
26	BB	100	U
26	BB	101	A
26	BB	102	U
26	BB	103	A
26	BB	113	U
26	BB	115	C
26	BB	119	A
26	BB	120	U
26	BB	128	C
26	BB	155	A
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	222	A
26	BB	224	U
26	BB	225	C
26	BB	232	G
26	BB	242	G
26	BB	243	U
26	BB	248	G
26	BB	250	G
26	BB	255	A
26	BB	265	A
26	BB	266	G
26	BB	267	C
26	BB	271	G
26	BB	277	G
26	BB	294	A
26	BB	295	G
26	BB	311	A
26	BB	330	A

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Mol	Chain	Res	Type
26	BB	332	A
26	BB	333	G
26	BB	338	G
26	BB	369	U
26	BB	370	G
26	BB	371	A
26	BB	372	G
26	BB	386	G
26	BB	391	A
26	BB	396	G
26	BB	403	U
26	BB	405	U
26	BB	406	G
26	BB	411	G
26	BB	418	C
26	BB	424	G
26	BB	431	U
26	BB	436	C
26	BB	443	A
26	BB	444	C
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	504	A
26	BB	505	A
26	BB	508	A
26	BB	509	C
26	BB	527	C
26	BB	530	G
26	BB	531	C
26	BB	532	A
26	BB	546	U
26	BB	547	A
26	BB	548	G
26	BB	550	C
26	BB	562	U

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Mol	Chain	Res	Type
26	BB	563	A
26	BB	571	U
26	BB	573	U
26	BB	574	A
26	BB	575	A
26	BB	603	A
26	BB	604	G
26	BB	612	G
26	BB	613	A
26	BB	615	U
26	BB	621	A
26	BB	635	C
26	BB	637	A
26	BB	642	U
26	BB	643	A
26	BB	644	A
26	BB	645	C
26	BB	646	U
26	BB	654	A
26	BB	655	A
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	746	PSU
26	BB	747	5MU
26	BB	748	G
26	BB	749	A
26	BB	753	A
26	BB	758	C
26	BB	762	U
26	BB	763	G
26	BB	764	A
26	BB	775	G
26	BB	776	G
26	BB	777	G

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Mol	Chain	Res	Type
26	BB	782	A
26	BB	784	G
26	BB	786	C
26	BB	789	A
26	BB	793	A
26	BB	802	A
26	BB	805	G
26	BB	806	C
26	BB	812	C
26	BB	846	U
26	BB	847	U
26	BB	848	C
26	BB	859	G
26	BB	870	U
26	BB	888	C
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	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	958	U
26	BB	959	A
26	BB	961	C
26	BB	973	A
26	BB	974	G
26	BB	981	A
26	BB	982	C
26	BB	984	A
26	BB	985	C
26	BB	986	C
26	BB	990	A
26	BB	991	C
26	BB	995	C

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Mol	Chain	Res	Type
26	BB	996	A
26	BB	1002	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	1026	G
26	BB	1044	C
26	BB	1045	C
26	BB	1048	A
26	BB	1060	U
26	BB	1061	U
26	BB	1062	G
26	BB	1070	A
26	BB	1073	A
26	BB	1079	C
26	BB	1081	U
26	BB	1083	U
26	BB	1084	A
26	BB	1087	G
26	BB	1094	U
26	BB	1095	A
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	1128	G
26	BB	1129	A
26	BB	1130	U
26	BB	1132	U
26	BB	1135	C
26	BB	1143	A
26	BB	1157	G
26	BB	1158	C
26	BB	1173	U
26	BB	1177	G
26	BB	1184	U
26	BB	1204	A

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Mol	Chain	Res	Type
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	1274	A
26	BB	1275	A
26	BB	1283	G
26	BB	1284	A
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	1323	C
26	BB	1329	U
26	BB	1341	G
26	BB	1349	C
26	BB	1362	C
26	BB	1363	C
26	BB	1365	A
26	BB	1368	G
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

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Mol	Chain	Res	Type
26	BB	1421	G
26	BB	1452	G
26	BB	1453	A
26	BB	1454	C
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	1514	G
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	1568	G
26	BB	1578	U
26	BB	1584	U
26	BB	1585	C
26	BB	1608	A
26	BB	1610	A
26	BB	1612	C
26	BB	1614	A
26	BB	1616	A
26	BB	1617	C
26	BB	1635	A
26	BB	1636	U
26	BB	1646	C
26	BB	1648	U
26	BB	1649	G
26	BB	1653	G
26	BB	1669	A
26	BB	1674	G
26	BB	1675	C
26	BB	1713	A
26	BB	1715	G
26	BB	1724	G
26	BB	1730	C

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Mol	Chain	Res	Type
26	BB	1737	G
26	BB	1753	G
26	BB	1758	U
26	BB	1760	C
26	BB	1762	A
26	BB	1763	G
26	BB	1764	C
26	BB	1773	A
26	BB	1780	A
26	BB	1782	U
26	BB	1800	C
26	BB	1801	A
26	BB	1808	A
26	BB	1809	A
26	BB	1815	A
26	BB	1825	U
26	BB	1830	C
26	BB	1831	G
26	BB	1833	C
26	BB	1838	C
26	BB	1851	U
26	BB	1873	G
26	BB	1899	A
26	BB	1912	A
26	BB	1913	A
26	BB	1914	C
26	BB	1916	A
26	BB	1928	A
26	BB	1930	G
26	BB	1937	A
26	BB	1938	A
26	BB	1941	C
26	BB	1944	U
26	BB	1952	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

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Mol	Chain	Res	Type
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	2023	C
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	2062	A
26	BB	2069	7MG
26	BB	2077	A
26	BB	2084	C
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	2127	G
26	BB	2128	G
26	BB	2129	C
26	BB	2130	U
26	BB	2134	A
26	BB	2137	U
26	BB	2143	C
26	BB	2145	C
26	BB	2148	G
26	BB	2154	A
26	BB	2158	A
26	BB	2163	A
26	BB	2164	C
26	BB	2165	C
26	BB	2198	A
26	BB	2199	A

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Mol	Chain	Res	Type
26	BB	2203	U
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	2237	G
26	BB	2238	G
26	BB	2239	G
26	BB	2246	G
26	BB	2249	U
26	BB	2250	G
26	BB	2254	C
26	BB	2266	A
26	BB	2282	G
26	BB	2283	C
26	BB	2287	A
26	BB	2288	A
26	BB	2306	C
26	BB	2307	G
26	BB	2308	G
26	BB	2312	U
26	BB	2321	U
26	BB	2322	A
26	BB	2325	G
26	BB	2334	U
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	2390	U
26	BB	2402	U

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Mol	Chain	Res	Type
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	2448	A
26	BB	2449	H2U
26	BB	2450	A
26	BB	2472	G
26	BB	2473	U
26	BB	2476	A
26	BB	2478	A
26	BB	2486	C
26	BB	2491	U
26	BB	2493	U
26	BB	2494	G
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	2566	A
26	BB	2567	G
26	BB	2572	A
26	BB	2573	C
26	BB	2574	G
26	BB	2581	G
26	BB	2585	U
26	BB	2587	A
26	BB	2599	G
26	BB	2603	G
26	BB	2610	C
26	BB	2613	U

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Mol	Chain	Res	Type
26	BB	2616	C
26	BB	2629	U
26	BB	2639	A
26	BB	2654	A
26	BB	2655	G
26	BB	2656	U
26	BB	2664	G
26	BB	2665	A
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	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	2782	G
26	BB	2791	G
26	BB	2797	U
26	BB	2800	A
26	BB	2807	U
26	BB	2823	A
26	BB	2825	G
26	BB	2832	U
26	BB	2833	U
26	BB	2842	G
26	BB	2858	C
26	BB	2861	U
26	BB	2864	G
26	BB	2867	G
26	BB	2868	A
26	BB	2879	A
26	BB	2880	C

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Mol	Chain	Res	Type
26	BB	2883	A
26	BB	2885	G
26	BB	2889	C
26	BB	2893	A
26	BB	2895	G
26	BB	2903	U

All (312) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	3	A
1	AA	4	U
1	AA	5	U
1	AA	39	G
1	AA	50	A
1	AA	51	A
1	AA	84	U
1	AA	101	A
1	AA	110	C
1	AA	128	G
1	AA	129	A
1	AA	173	U
1	AA	178	C
1	AA	181	A
1	AA	187	G
1	AA	206	C
1	AA	224	U
1	AA	243	A
1	AA	244	U
1	AA	249	U
1	AA	251	G
1	AA	272	C
1	AA	279	A
1	AA	280	C
1	AA	281	G
1	AA	290	C
1	AA	328	C
1	AA	337	G
1	AA	366	A
1	AA	372	C
1	AA	410	G
1	AA	421	U

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Mol	Chain	Res	Type
1	AA	429	U
1	AA	481	G
1	AA	485	U
1	AA	497	G
1	AA	509	A
1	AA	533	A
1	AA	534	U
1	AA	548	G
1	AA	552	U
1	AA	560	A
1	AA	582	C
1	AA	631	C
1	AA	653	U
1	AA	681	A
1	AA	682	G
1	AA	700	G
1	AA	717	U
1	AA	744	C
1	AA	764	C
1	AA	765	G
1	AA	782	A
1	AA	803	G
1	AA	815	A
1	AA	816	A
1	AA	840	C
1	AA	842	U
1	AA	845	A
1	AA	870	U
1	AA	897	C
1	AA	899	C
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	977	A
1	AA	987	G
1	AA	992	U
1	AA	993	G
1	AA	1014	A

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Mol	Chain	Res	Type
1	AA	1029	U
1	AA	1030	U
1	AA	1042	A
1	AA	1054	C
1	AA	1126	U
1	AA	1129	C
1	AA	1167	A
1	AA	1190	G
1	AA	1201	A
1	AA	1213	A
1	AA	1214	C
1	AA	1226	C
1	AA	1227	A
1	AA	1253	G
1	AA	1278	G
1	AA	1289	A
1	AA	1302	C
1	AA	1310	G
1	AA	1329	A
1	AA	1335	U
1	AA	1346	A
1	AA	1347	G
1	AA	1364	U
1	AA	1451	U
1	AA	1491	G
1	AA	1502	A
1	AA	1536	C
2	AB	8	4SU
2	AB	9	A
2	AB	15	A
2	AB	34	C
2	AB	58	A
2	AB	59	G
2	AB	74	C
3	AC	14	G
3	AC	15	G
3	AC	16	A
3	AC	20	G
3	AC	22	G
3	AC	26	U
3	AC	27	A
3	AC	39	U

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Mol	Chain	Res	Type
3	AC	41	A
3	AC	45	G
3	AC	47	C
3	AC	50	U
4	AD	9	G
4	AD	22	A
4	AD	74	A
4	AD	75	C
4	AD	76	C
25	BA	11	C
25	BA	25	U
25	BA	34	A
25	BA	35	C
25	BA	41	G
25	BA	44	G
25	BA	57	A
25	BA	66	A
25	BA	87	U
25	BA	106	G
26	BB	13	A
26	BB	26	G
26	BB	29	U
26	BB	34	U
26	BB	48	G
26	BB	49	A
26	BB	54	G
26	BB	57	C
26	BB	71	A
26	BB	91	A
26	BB	94	A
26	BB	100	U
26	BB	114	U
26	BB	125	A
26	BB	140	C
26	BB	180	G
26	BB	181	A
26	BB	196	A
26	BB	199	A
26	BB	228	C
26	BB	231	A
26	BB	241	A
26	BB	242	G

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Mol	Chain	Res	Type
26	BB	253	C
26	BB	265	A
26	BB	311	A
26	BB	332	A
26	BB	374	A
26	BB	428	A
26	BB	443	A
26	BB	451	U
26	BB	453	A
26	BB	463	G
26	BB	479	A
26	BB	505	A
26	BB	530	G
26	BB	534	U
26	BB	561	G
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	642	U
26	BB	671	C
26	BB	680	C
26	BB	743	A
26	BB	748	G
26	BB	776	G
26	BB	787	C
26	BB	788	A
26	BB	847	U
26	BB	870	U
26	BB	888	C
26	BB	900	A
26	BB	940	G
26	BB	945	A
26	BB	981	A
26	BB	984	A
26	BB	990	A
26	BB	1012	U
26	BB	1020	A
26	BB	1035	U

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Mol	Chain	Res	Type
26	BB	1043	C
26	BB	1045	C
26	BB	1056	G
26	BB	1061	U
26	BB	1067	A
26	BB	1069	A
26	BB	1070	A
26	BB	1083	U
26	BB	1133	A
26	BB	1134	A
26	BB	1142	A
26	BB	1157	G
26	BB	1210	G
26	BB	1239	G
26	BB	1254	A
26	BB	1288	G
26	BB	1300	G
26	BB	1323	C
26	BB	1329	U
26	BB	1339	G
26	BB	1349	C
26	BB	1355	G
26	BB	1386	C
26	BB	1391	U
26	BB	1395	A
26	BB	1416	G
26	BB	1451	C
26	BB	1452	G
26	BB	1460	U
26	BB	1476	U
26	BB	1566	A
26	BB	1567	G
26	BB	1608	A
26	BB	1616	A
26	BB	1634	A
26	BB	1648	U
26	BB	1653	G
26	BB	1693	U
26	BB	1697	G
26	BB	1699	G
26	BB	1714	U
26	BB	1715	G

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Mol	Chain	Res	Type
26	BB	1723	G
26	BB	1753	G
26	BB	1758	U
26	BB	1778	U
26	BB	1799	G
26	BB	1807	G
26	BB	1828	G
26	BB	1888	G
26	BB	1912	A
26	BB	1919	A
26	BB	1927	A
26	BB	1934	C
26	BB	1940	U
26	BB	1944	U
26	BB	1955	U
26	BB	2019	A
26	BB	2033	A
26	BB	2055	C
26	BB	2068	U
26	BB	2079	U
26	BB	2106	U
26	BB	2111	U
26	BB	2112	G
26	BB	2118	U
26	BB	2129	C
26	BB	2198	A
26	BB	2223	G
26	BB	2236	U
26	BB	2238	G
26	BB	2249	U
26	BB	2282	G
26	BB	2287	A
26	BB	2307	G
26	BB	2370	G
26	BB	2374	C
26	BB	2384	U
26	BB	2385	C
26	BB	2388	A
26	BB	2395	C
26	BB	2406	A
26	BB	2411	A
26	BB	2425	A

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Mol	Chain	Res	Type
26	BB	2427	C
26	BB	2432	A
26	BB	2434	A
26	BB	2440	C
26	BB	2447	G
26	BB	2515	C
26	BB	2571	U
26	BB	2573	C
26	BB	2585	U
26	BB	2586	U
26	BB	2613	U
26	BB	2616	C
26	BB	2627	G
26	BB	2655	G
26	BB	2663	G
26	BB	2697	G
26	BB	2756	U
26	BB	2765	A
26	BB	2771	C
26	BB	2791	G
26	BB	2802	G
26	BB	2806	C
26	BB	2833	U
26	BB	2835	A
26	BB	2842	G
26	BB	2867	G
26	BB	2879	A
26	BB	2893	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	$\#\|Z\|>2$
4	5MU	AD	55	4	19,22,23	1.67	5 (26%)	28,32,35	1.45	4 (14%)
26	PSU	BB	2457	26	18,21,22	1.56	4 (22%)	22,30,33	2.10	7 (31%)
4	OMC	AD	33	4	19,22,23	1.09	1 (5%)	26,31,34	1.81	9 (34%)
2	MIA	AB	37	2	24,31,32	2.06	8 (33%)	26,44,47	2.93	7 (26%)
1	4OC	AA	1402	1	20,23,24	1.58	6 (30%)	26,32,35	1.86	10 (38%)
26	H2U	BB	2449	26	18,21,22	1.32	1 (5%)	21,30,33	1.51	3 (14%)
26	PSU	BB	2504	26	18,21,22	2.01	6 (33%)	22,30,33	2.02	7 (31%)
26	1MG	BB	745	26	18,26,27	1.82	5 (27%)	19,39,42	2.43	4 (21%)
2	4SU	AB	8	2	18,21,22	1.67	3 (16%)	26,30,33	1.57	5 (19%)
26	PSU	BB	2605	26	18,21,22	1.57	4 (22%)	22,30,33	1.30	2 (9%)
26	2MA	BB	2503	26	17,25,26	1.42	5 (29%)	17,37,40	1.61	5 (29%)
1	MA6	AA	1519	1	18,26,27	2.18	8 (44%)	19,38,41	1.65	4 (21%)
2	7MG	AB	46	2	22,26,27	5.65	7 (31%)	29,39,42	1.80	2 (6%)
26	PSU	BB	1917	26	18,21,22	2.06	8 (44%)	22,30,33	2.52	8 (36%)
26	7MG	BB	2069	26	22,26,27	4.18	3 (13%)	29,39,42	1.70	5 (17%)
2	PSU	AB	55	2	18,21,22	1.31	1 (5%)	22,30,33	1.75	7 (31%)
26	5MU	BB	1939	26	19,22,23	1.72	3 (15%)	28,32,35	1.80	4 (14%)
26	5MC	BB	1962	26	18,22,23	1.57	3 (16%)	26,32,35	1.99	6 (23%)
1	2MG	AA	966	1	18,26,27	1.66	6 (33%)	16,38,41	2.07	4 (25%)
4	4SU	AD	8	4	18,21,22	1.95	3 (16%)	26,30,33	2.36	9 (34%)
2	H2U	AB	16	2	18,21,22	1.57	5 (27%)	21,30,33	1.22	3 (14%)
26	PSU	BB	955	26	18,21,22	1.36	2 (11%)	22,30,33	1.92	6 (27%)
2	5MU	AB	54	2	19,22,23	1.70	5 (26%)	28,32,35	1.84	7 (25%)
26	OMG	BB	2251	26	18,26,27	1.77	5 (27%)	19,38,41	1.50	6 (31%)
26	CH	BB	2575	26	16,21,22	1.54	3 (18%)	20,30,33	1.56	4 (20%)
26	2MG	BB	1835	26	18,26,27	1.98	7 (38%)	16,38,41	0.93	0
2	H2U	AB	17	2	18,21,22	1.36	1 (5%)	21,30,33	1.90	4 (19%)
26	2MG	BB	2445	26	18,26,27	1.23	3 (16%)	16,38,41	1.48	2 (12%)
4	PSU	AD	56	4	18,21,22	1.90	3 (16%)	22,30,33	2.16	6 (27%)
1	5MC	AA	967	1	18,22,23	1.40	3 (16%)	26,32,35	1.84	9 (34%)
1	5MC	AA	1407	1	18,22,23	1.35	2 (11%)	26,32,35	2.11	9 (34%)
26	6MZ	BB	1618	26	18,25,26	2.11	6 (33%)	16,36,39	1.56	3 (18%)
26	5MU	BB	747	26	19,22,23	1.93	7 (36%)	28,32,35	1.95	6 (21%)
1	2MG	AA	1516	1	18,26,27	1.26	1 (5%)	16,38,41	1.69	3 (18%)
26	6MZ	BB	2030	26	18,25,26	1.75	5 (27%)	16,36,39	2.35	5 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
26	OMC	BB	2498	26	19,22,23	1.28	3 (15%)	26,31,34	1.09	2 (7%)
1	PSU	AA	516	1	18,21,22	1.97	5 (27%)	22,30,33	1.33	3 (13%)
26	PSU	BB	1911	26	18,21,22	1.92	4 (22%)	22,30,33	1.24	3 (13%)
26	3TD	BB	1915	26	18,22,23	1.52	3 (16%)	22,32,35	1.86	5 (22%)
1	7MG	AA	527	1	22,26,27	6.42	5 (22%)	29,39,42	1.86	5 (17%)
26	OMU	BB	2552	26	19,22,23	1.22	1 (5%)	26,31,34	2.06	11 (42%)
4	H2U	AD	21	4	18,21,22	1.75	4 (22%)	21,30,33	1.90	5 (23%)
1	UR3	AA	1498	1	19,22,23	1.04	1 (5%)	26,32,35	1.39	4 (15%)
26	PSU	BB	2580	26	18,21,22	1.45	3 (16%)	22,30,33	1.40	3 (13%)
1	2MG	AA	1207	1	18,26,27	2.11	6 (33%)	16,38,41	1.71	4 (25%)
2	H2U	AB	20	2	18,21,22	1.27	2 (11%)	21,30,33	1.31	2 (9%)
26	PSU	BB	746	26	18,21,22	1.79	5 (27%)	22,30,33	1.57	5 (22%)
2	OMC	AB	32	2	19,22,23	1.32	3 (15%)	26,31,34	1.90	6 (23%)
1	MA6	AA	1518	1	18,26,27	1.84	4 (22%)	19,38,41	2.37	4 (21%)

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
4	5MU	AD	55	4	-	0/7/25/26	0/2/2/2
26	PSU	BB	2457	26	-	0/7/25/26	0/2/2/2
4	OMC	AD	33	4	-	0/9/27/28	0/2/2/2
2	MIA	AB	37	2	-	1/11/33/34	0/3/3/3
1	4OC	AA	1402	1	-	0/9/29/30	0/2/2/2
26	H2U	BB	2449	26	-	0/7/38/39	0/2/2/2
26	PSU	BB	2504	26	-	0/7/25/26	0/2/2/2
26	1MG	BB	745	26	-	0/3/25/26	0/3/3/3
2	4SU	AB	8	2	-	6/7/25/26	0/2/2/2
26	PSU	BB	2605	26	-	1/7/25/26	0/2/2/2
26	2MA	BB	2503	26	-	0/3/25/26	0/3/3/3
1	MA6	AA	1519	1	-	0/7/29/30	0/3/3/3
2	7MG	AB	46	2	-	2/7/37/38	0/3/3/3
26	PSU	BB	1917	26	-	2/7/25/26	0/2/2/2
26	7MG	BB	2069	26	-	0/7/37/38	0/3/3/3
2	PSU	AB	55	2	-	4/7/25/26	0/2/2/2
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
26	5MC	BB	1962	26	-	2/7/25/26	0/2/2/2
1	2MG	AA	966	1	-	1/5/27/28	0/3/3/3
4	4SU	AD	8	4	-	0/7/25/26	0/2/2/2
2	H2U	AB	16	2	-	0/7/38/39	0/2/2/2
26	PSU	BB	955	26	-	0/7/25/26	0/2/2/2
2	5MU	AB	54	2	-	0/7/25/26	0/2/2/2
26	OMG	BB	2251	26	-	0/5/27/28	0/3/3/3
26	CH	BB	2575	26	-	0/5/25/26	0/2/2/2
26	2MG	BB	1835	26	-	1/5/27/28	0/3/3/3
2	H2U	AB	17	2	-	0/7/38/39	0/2/2/2
26	2MG	BB	2445	26	-	0/5/27/28	0/3/3/3
4	PSU	AD	56	4	-	1/7/25/26	0/2/2/2
1	5MC	AA	967	1	-	3/7/25/26	0/2/2/2
1	5MC	AA	1407	1	-	0/7/25/26	0/2/2/2
26	6MZ	BB	1618	26	-	0/5/27/28	0/3/3/3
26	5MU	BB	747	26	-	0/7/25/26	0/2/2/2
1	2MG	AA	1516	1	-	0/5/27/28	0/3/3/3
26	6MZ	BB	2030	26	-	0/5/27/28	0/3/3/3
26	OMC	BB	2498	26	-	0/9/27/28	0/2/2/2
1	PSU	AA	516	1	-	0/7/25/26	0/2/2/2
26	PSU	BB	1911	26	-	2/7/25/26	0/2/2/2
26	3TD	BB	1915	26	-	1/7/25/26	0/2/2/2
1	7MG	AA	527	1	-	1/7/37/38	0/3/3/3
26	OMU	BB	2552	26	-	1/9/27/28	0/2/2/2
4	H2U	AD	21	4	-	3/7/38/39	0/2/2/2
1	UR3	AA	1498	1	-	0/7/25/26	0/2/2/2
26	PSU	BB	2580	26	-	1/7/25/26	0/2/2/2
1	2MG	AA	1207	1	-	0/5/27/28	0/3/3/3
2	H2U	AB	20	2	-	0/7/38/39	0/2/2/2
26	PSU	BB	746	26	-	4/7/25/26	0/2/2/2
2	OMC	AB	32	2	-	2/9/27/28	0/2/2/2
1	MA6	AA	1518	1	-	0/7/29/30	0/3/3/3

All (197) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	527	7MG	C8-N9	-29.36	1.29	1.46
2	AB	46	7MG	C8-N9	-25.16	1.31	1.46
26	BB	2069	7MG	C8-N9	-18.65	1.35	1.46
4	AD	8	4SU	C5-C4	-6.73	1.33	1.42
2	AB	37	MIA	C2-S10	5.60	1.80	1.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AB	8	4SU	C5-C4	-5.49	1.35	1.42
26	BB	1917	PSU	C2'-C1'	5.40	1.60	1.53
26	BB	1618	6MZ	O4'-C1'	5.33	1.48	1.41
26	BB	1939	5MU	C6-C5	5.07	1.42	1.34
2	AB	46	7MG	C5-N7	4.72	1.41	1.35
1	AA	1207	2MG	C5-C6	-4.72	1.37	1.47
1	AA	1518	MA6	C6-N1	4.72	1.40	1.33
4	AD	56	PSU	C2-N1	4.67	1.43	1.36
26	BB	2251	OMG	C8-N7	-4.42	1.27	1.35
26	BB	745	1MG	O4'-C4'	-4.38	1.35	1.45
26	BB	1911	PSU	C2-N1	4.28	1.42	1.36
1	AA	1519	MA6	C4-N3	4.20	1.41	1.35
1	AA	1207	2MG	O4'-C1'	-4.13	1.35	1.41
4	AD	21	H2U	C1'-N1	4.08	1.54	1.46
26	BB	746	PSU	C1'-C5	4.07	1.59	1.50
26	BB	2504	PSU	C2'-C1'	-4.06	1.48	1.53
26	BB	747	5MU	C2-N3	4.00	1.45	1.38
26	BB	2504	PSU	O4'-C1'	-3.93	1.38	1.43
26	BB	1835	2MG	C6-N1	3.87	1.43	1.37
1	AA	516	PSU	C6-C5	3.86	1.39	1.35
2	AB	17	H2U	C4-N3	-3.83	1.31	1.37
26	BB	2069	7MG	C4-N9	-3.77	1.33	1.37
26	BB	747	5MU	C6-C5	3.75	1.40	1.34
1	AA	1516	2MG	C2'-C1'	-3.71	1.48	1.53
26	BB	1618	6MZ	C9-N6	3.65	1.51	1.45
1	AA	527	7MG	C5-N7	3.64	1.39	1.35
1	AA	1519	MA6	C2'-C1'	3.63	1.59	1.53
1	AA	1519	MA6	C6-N1	3.62	1.38	1.33
26	BB	745	1MG	C8-N7	-3.61	1.28	1.35
2	AB	16	H2U	O2-C2	3.57	1.29	1.23
26	BB	1962	5MC	C6-C5	3.52	1.40	1.34
1	AA	1518	MA6	C8-N7	-3.50	1.28	1.34
1	AA	516	PSU	C2-N3	3.50	1.43	1.37
26	BB	2030	6MZ	C2'-C1'	-3.46	1.48	1.53
26	BB	2575	CH	O4'-C4'	-3.46	1.37	1.45
26	BB	955	PSU	C1'-C5	3.43	1.58	1.50
26	BB	2605	PSU	C1'-C5	3.38	1.58	1.50
26	BB	2552	OMU	C5-C4	3.37	1.51	1.43
26	BB	1911	PSU	C6-C5	3.33	1.39	1.35
1	AA	516	PSU	C2'-C1'	-3.31	1.49	1.53
26	BB	1835	2MG	O4'-C1'	3.31	1.45	1.41
26	BB	1917	PSU	C1'-C5	3.31	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1207	2MG	C5-C4	-3.30	1.34	1.43
26	BB	745	1MG	C2'-C1'	-3.29	1.48	1.53
2	AB	55	PSU	C1'-C5	3.29	1.57	1.50
26	BB	2580	PSU	C6-N1	3.28	1.41	1.36
1	AA	1407	5MC	C1'-N1	3.26	1.57	1.47
4	AD	21	H2U	C2-N3	-3.22	1.32	1.38
26	BB	746	PSU	C6-N1	3.18	1.41	1.36
2	AB	20	H2U	O2'-C2'	-3.17	1.35	1.43
2	AB	54	5MU	C2-N1	3.16	1.43	1.38
26	BB	1915	3TD	C5'-C4'	3.16	1.61	1.51
26	BB	2504	PSU	C4-N3	-3.14	1.33	1.38
1	AA	1519	MA6	C10-N6	3.13	1.52	1.45
26	BB	1939	5MU	C4-C5	3.11	1.49	1.44
26	BB	746	PSU	C6-C5	-3.09	1.31	1.35
26	BB	2504	PSU	C3'-C4'	3.08	1.60	1.53
4	AD	55	5MU	O5'-C5'	-3.06	1.37	1.44
26	BB	1962	5MC	O4'-C4'	-3.06	1.38	1.45
26	BB	1911	PSU	O4'-C4'	-3.04	1.38	1.45
1	AA	966	2MG	C8-N7	-3.04	1.29	1.35
4	AD	55	5MU	O4'-C4'	-3.03	1.38	1.45
26	BB	2251	OMG	C5-C6	-3.00	1.41	1.47
26	BB	2605	PSU	O4'-C4'	-2.99	1.38	1.45
2	AB	32	OMC	O5'-C5'	-2.99	1.37	1.44
26	BB	2504	PSU	O4'-C4'	-2.98	1.38	1.45
2	AB	37	MIA	C2-N3	2.98	1.38	1.34
4	AD	21	H2U	C6-N1	2.98	1.52	1.47
26	BB	2457	PSU	C2'-C1'	-2.96	1.49	1.53
26	BB	2457	PSU	C6-C5	2.95	1.38	1.35
2	AB	37	MIA	C8-N7	-2.94	1.29	1.34
26	BB	2575	CH	C5-C4	2.90	1.44	1.39
26	BB	1911	PSU	C4-N3	2.89	1.44	1.38
26	BB	1618	6MZ	C4-N3	-2.88	1.31	1.35
26	BB	2498	OMC	C5'-C4'	2.88	1.60	1.51
26	BB	1835	2MG	C5'-C4'	2.85	1.60	1.51
26	BB	1618	6MZ	O4'-C4'	-2.82	1.38	1.45
2	AB	37	MIA	C6-N6	-2.79	1.29	1.34
26	BB	747	5MU	C2-N1	2.77	1.42	1.38
26	BB	1835	2MG	C2-N1	2.75	1.41	1.36
26	BB	2498	OMC	O2'-C2'	-2.75	1.35	1.42
2	AB	37	MIA	C6-N1	2.71	1.36	1.32
1	AA	1207	2MG	CM2-N2	2.71	1.50	1.45
4	AD	21	H2U	C5-C4	2.68	1.56	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	747	5MU	O5'-C5'	-2.63	1.38	1.44
26	BB	746	PSU	C2-N3	2.62	1.42	1.37
4	AD	33	OMC	O5'-C5'	-2.62	1.38	1.44
2	AB	20	H2U	C4-N3	-2.60	1.33	1.37
26	BB	2498	OMC	C1'-N1	2.59	1.55	1.47
2	AB	54	5MU	C6-C5	2.59	1.38	1.34
4	AD	56	PSU	O4-C4	-2.59	1.18	1.23
2	AB	46	7MG	O4'-C4'	-2.58	1.39	1.45
2	AB	16	H2U	C2-N3	-2.57	1.33	1.38
26	BB	2030	6MZ	C2-N1	-2.55	1.29	1.33
26	BB	1917	PSU	O4'-C4'	-2.54	1.39	1.45
2	AB	16	H2U	C5-C4	2.53	1.55	1.50
26	BB	2503	2MA	C2'-C1'	2.51	1.57	1.53
26	BB	746	PSU	C2'-C1'	-2.50	1.50	1.53
26	BB	2504	PSU	C2-N3	2.50	1.41	1.37
26	BB	2575	CH	C4-N3	2.49	1.40	1.37
1	AA	967	5MC	C5'-C4'	-2.49	1.43	1.51
1	AA	1519	MA6	C9-N6	2.48	1.51	1.45
26	BB	2030	6MZ	O5'-C5'	-2.48	1.38	1.44
26	BB	745	1MG	C5-C6	-2.46	1.40	1.47
2	AB	46	7MG	O5'-C5'	-2.46	1.38	1.44
1	AA	1519	MA6	C5'-C4'	2.46	1.59	1.51
1	AA	527	7MG	O5'-C5'	-2.45	1.38	1.44
2	AB	8	4SU	O2'-C2'	2.44	1.48	1.43
2	AB	37	MIA	C13-C14	2.43	1.39	1.32
1	AA	1207	2MG	O5'-C5'	-2.43	1.38	1.44
26	BB	1915	3TD	C6-C5	2.43	1.38	1.35
1	AA	967	5MC	O2'-C2'	-2.41	1.37	1.43
26	BB	2069	7MG	C5'-C4'	2.40	1.59	1.51
26	BB	1917	PSU	C3'-C4'	2.39	1.59	1.53
1	AA	966	2MG	C3'-C4'	-2.38	1.46	1.53
2	AB	46	7MG	C6-N1	2.37	1.43	1.38
1	AA	966	2MG	O2'-C2'	-2.36	1.37	1.43
2	AB	32	OMC	C5'-C4'	2.36	1.58	1.51
1	AA	1518	MA6	O2'-C2'	-2.36	1.37	1.43
26	BB	2605	PSU	C4-C5	2.35	1.50	1.44
26	BB	2251	OMG	O3'-C3'	-2.34	1.37	1.43
2	AB	54	5MU	C5'-C4'	2.33	1.58	1.51
26	BB	2457	PSU	C5'-C4'	2.30	1.58	1.51
1	AA	1402	4OC	O4'-C4'	-2.29	1.39	1.45
1	AA	1518	MA6	O4'-C4'	-2.29	1.39	1.45
26	BB	2503	2MA	O2'-C2'	-2.26	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	955	PSU	C6-N1	2.26	1.40	1.36
1	AA	966	2MG	C5-C4	-2.26	1.37	1.43
26	BB	2503	2MA	C5-C4	-2.25	1.37	1.43
26	BB	2503	2MA	C6-N6	2.25	1.37	1.28
4	AD	55	5MU	C2-N1	2.25	1.42	1.38
1	AA	966	2MG	C5'-C4'	2.24	1.58	1.51
26	BB	2445	2MG	O4'-C4'	-2.24	1.40	1.45
2	AB	54	5MU	O3'-C3'	-2.24	1.37	1.43
26	BB	2580	PSU	C2-N3	2.23	1.41	1.37
4	AD	8	4SU	C2-N1	-2.22	1.34	1.38
26	BB	1835	2MG	O2'-C2'	-2.22	1.37	1.43
26	BB	1939	5MU	C2-N3	2.22	1.41	1.38
26	BB	1835	2MG	O3'-C3'	-2.21	1.37	1.43
26	BB	2580	PSU	O4'-C1'	-2.20	1.40	1.43
26	BB	1917	PSU	C6-N1	2.20	1.39	1.36
4	AD	55	5MU	C3'-C4'	-2.20	1.47	1.53
26	BB	2030	6MZ	O4'-C1'	2.20	1.44	1.41
4	AD	55	5MU	C4-N3	2.19	1.42	1.38
26	BB	1618	6MZ	C5'-C4'	2.19	1.58	1.51
2	AB	16	H2U	C2-N1	-2.19	1.32	1.35
26	BB	1618	6MZ	O2'-C2'	-2.19	1.37	1.43
26	BB	2445	2MG	C8-N7	-2.19	1.31	1.35
2	AB	54	5MU	O2'-C2'	-2.19	1.37	1.43
26	BB	747	5MU	O2-C2	2.19	1.27	1.23
26	BB	2449	H2U	O2-C2	2.18	1.27	1.23
26	BB	1917	PSU	C5'-C4'	2.17	1.58	1.51
1	AA	966	2MG	O5'-C5'	-2.17	1.39	1.44
1	AA	967	5MC	O5'-C5'	-2.17	1.39	1.44
1	AA	1519	MA6	O2'-C2'	2.16	1.48	1.43
26	BB	2445	2MG	C2-N1	2.16	1.40	1.36
1	AA	1207	2MG	C2'-C1'	-2.15	1.50	1.53
2	AB	46	7MG	CM7-N7	2.15	1.53	1.45
26	BB	1917	PSU	O2-C2	-2.15	1.18	1.23
26	BB	2030	6MZ	C8-N7	-2.15	1.30	1.34
4	AD	56	PSU	C5'-C4'	2.14	1.58	1.51
2	AB	37	MIA	O5'-C5'	-2.13	1.39	1.44
4	AD	8	4SU	C4-N3	2.13	1.39	1.37
1	AA	1498	UR3	C1'-N1	2.12	1.53	1.47
2	AB	16	H2U	O5'-C5'	-2.12	1.39	1.44
26	BB	2251	OMG	O6-C6	2.12	1.27	1.23
1	AA	516	PSU	O4'-C1'	2.10	1.46	1.43
2	AB	46	7MG	C2-N3	2.08	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BB	2503	2MA	C8-N7	-2.08	1.31	1.35
26	BB	2251	OMG	O4'-C1'	-2.08	1.38	1.41
1	AA	1402	4OC	O5'-C5'	-2.08	1.39	1.44
26	BB	2457	PSU	O4'-C4'	-2.08	1.40	1.45
26	BB	1917	PSU	C2-N1	2.07	1.39	1.36
1	AA	1407	5MC	O4'-C4'	-2.07	1.40	1.45
1	AA	527	7MG	C5'-C4'	2.06	1.58	1.51
2	AB	8	4SU	O4'-C1'	2.06	1.46	1.42
26	BB	1962	5MC	C4-N4	-2.05	1.28	1.34
1	AA	1402	4OC	O2'-C2'	2.05	1.47	1.42
26	BB	745	1MG	C6-N1	2.04	1.43	1.39
1	AA	1519	MA6	O4'-C4'	-2.04	1.40	1.45
1	AA	1402	4OC	O3'-C3'	-2.04	1.38	1.43
26	BB	747	5MU	O4'-C4'	-2.04	1.40	1.45
1	AA	527	7MG	C2'-C1'	-2.03	1.47	1.53
26	BB	2605	PSU	C2'-C1'	-2.03	1.51	1.53
1	AA	1402	4OC	O4'-C1'	2.02	1.46	1.42
26	BB	1915	3TD	C2'-C1'	-2.02	1.51	1.53
2	AB	32	OMC	O3'-C3'	-2.02	1.38	1.43
26	BB	747	5MU	O4'-C1'	-2.01	1.37	1.42
1	AA	516	PSU	O5'-C5'	-2.01	1.39	1.44
1	AA	1402	4OC	O2'-CM2	-2.00	1.35	1.42
26	BB	1835	2MG	C5-C6	-2.00	1.43	1.47
2	AB	37	MIA	C5'-C4'	2.00	1.57	1.51

All (247) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	37	MIA	C11-S10-C2	11.77	111.06	102.27
26	BB	745	1MG	C2-N1-C6	8.17	127.59	120.95
1	AA	1518	MA6	N1-C6-N6	7.81	125.28	117.06
2	AB	46	7MG	N9-C8-N7	7.64	114.30	103.38
1	AA	527	7MG	N9-C8-N7	7.06	113.48	103.38
26	BB	1917	PSU	C6-C5-C4	6.77	122.93	118.20
4	AD	56	PSU	C6-C5-C4	6.76	122.92	118.20
4	AD	8	4SU	C4-N3-C2	-6.38	121.15	127.34
26	BB	2030	6MZ	C9-N6-C6	5.85	127.91	122.87
26	BB	2457	PSU	C3'-C2'-C1'	5.68	108.25	101.64
26	BB	1939	5MU	C5-C4-N3	-5.58	110.54	115.31
26	BB	2504	PSU	C3'-C2'-C1'	5.16	107.65	101.64
26	BB	1917	PSU	O2-C2-N1	-5.06	117.22	122.79
2	AB	37	MIA	C12-N6-C6	5.03	129.99	122.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1915	3TD	C4-N3-C2	-4.96	119.22	124.61
26	BB	1962	5MC	C5-C4-N4	-4.92	114.12	121.48
26	BB	745	1MG	CM1-N1-C6	-4.87	110.87	117.55
26	BB	1962	5MC	O2-C2-N3	-4.82	114.49	122.33
2	AB	17	H2U	C4-N3-C2	4.80	129.77	125.79
1	AA	1407	5MC	C5-C6-N1	-4.79	118.41	123.34
26	BB	2069	7MG	N9-C8-N7	4.66	110.04	103.38
2	AB	32	OMC	O2-C2-N3	-4.62	114.82	122.33
1	AA	966	2MG	O6-C6-N1	4.59	126.07	120.65
26	BB	747	5MU	O4'-C1'-N1	4.48	118.60	108.36
2	AB	54	5MU	C4-N3-C2	-4.35	121.71	127.35
26	BB	2504	PSU	N1-C2-N3	-4.23	110.33	115.13
4	AD	8	4SU	S4-C4-N3	-4.23	116.04	120.21
26	BB	2030	6MZ	C3'-C2'-C1'	-4.21	94.64	100.98
26	BB	747	5MU	C6-N1-C2	-4.19	117.05	121.30
2	AB	37	MIA	O4'-C4'-C5'	4.15	123.03	109.37
26	BB	2575	CH	C5-C4-N3	-4.06	115.73	118.04
2	AB	32	OMC	O4'-C1'-N1	4.05	117.61	108.36
26	BB	2503	2MA	O4'-C1'-C2'	-4.02	101.05	106.93
1	AA	1519	MA6	N1-C6-N6	3.98	121.25	117.06
4	AD	33	OMC	O2-C2-N3	-3.97	115.87	122.33
4	AD	21	H2U	O2-C2-N1	-3.96	118.14	123.11
26	BB	747	5MU	C2'-C3'-C4'	-3.93	95.00	102.64
26	BB	1962	5MC	C5-C6-N1	-3.90	119.33	123.34
4	AD	8	4SU	C5-C4-N3	3.82	118.23	114.69
1	AA	1516	2MG	O3'-C3'-C2'	3.80	124.11	111.82
1	AA	1402	4OC	C5-C4-N3	-3.79	116.49	122.59
1	AA	967	5MC	CM5-C5-C6	-3.76	117.82	122.85
1	AA	1407	5MC	N4-C4-N3	3.76	125.34	118.48
26	BB	2580	PSU	O3'-C3'-C4'	3.74	121.85	111.05
4	AD	8	4SU	C6-C5-C4	-3.74	116.72	119.95
26	BB	2449	H2U	O2-C2-N1	-3.73	118.42	123.11
1	AA	1498	UR3	O4-C4-N3	3.73	124.83	119.66
4	AD	21	H2U	O4-C4-N3	3.72	126.18	120.28
26	BB	2552	OMU	N3-C2-N1	3.72	119.83	114.89
2	AB	55	PSU	C6-C5-C4	3.72	120.80	118.20
1	AA	1407	5MC	C5-C4-N4	-3.71	115.92	121.48
26	BB	955	PSU	C3'-C2'-C1'	-3.69	97.34	101.64
26	BB	1939	5MU	C5M-C5-C6	-3.67	117.95	122.85
2	AB	8	4SU	C2'-C3'-C4'	-3.66	95.54	102.64
4	AD	55	5MU	C1'-N1-C6	-3.65	115.05	121.12
26	BB	1917	PSU	C5-C6-N1	-3.63	116.67	122.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2552	OMU	C6-C5-C4	3.60	124.44	119.52
26	BB	1917	PSU	O4'-C1'-C2'	3.58	110.19	105.14
2	AB	55	PSU	C3'-C2'-C1'	3.56	105.79	101.64
1	AA	1407	5MC	CM5-C5-C6	-3.56	118.10	122.85
26	BB	1618	6MZ	C1'-N9-C4	3.55	132.88	126.64
4	AD	33	OMC	N4-C4-N3	3.55	124.20	117.97
1	AA	527	7MG	C5-C4-N3	-3.54	121.38	128.13
1	AA	1207	2MG	O6-C6-C5	3.54	131.28	124.37
26	BB	2030	6MZ	C2-N1-C6	3.52	119.61	116.59
26	BB	746	PSU	O2-C2-N1	-3.51	118.92	122.79
4	AD	56	PSU	O2-C2-N1	3.51	126.66	122.79
1	AA	1518	MA6	C9-N6-C6	3.48	130.04	119.51
4	AD	21	H2U	C4-N3-C2	3.47	128.67	125.79
2	AB	54	5MU	O2-C2-N1	3.43	127.34	122.79
26	BB	955	PSU	O4'-C1'-C2'	3.39	109.92	105.14
4	AD	8	4SU	C6-N1-C2	-3.36	116.69	120.99
26	BB	2552	OMU	O2'-C2'-C1'	3.35	115.61	109.08
1	AA	1402	4OC	C3'-C2'-C1'	-3.35	96.59	102.89
26	BB	2580	PSU	O2'-C2'-C1'	-3.35	103.25	111.23
1	AA	966	2MG	O4'-C1'-C2'	3.31	111.76	106.93
4	AD	21	H2U	C5-C4-N3	-3.30	112.94	116.65
26	BB	955	PSU	C4-N3-C2	3.25	131.02	126.34
1	AA	1519	MA6	O4'-C1'-C2'	-3.25	102.18	106.93
26	BB	1915	3TD	N1-C2-N3	3.24	118.70	116.14
26	BB	955	PSU	N1-C2-N3	-3.24	111.46	115.13
1	AA	966	2MG	C2'-C3'-C4'	-3.22	96.38	102.64
4	AD	55	5MU	C1'-N1-C2	3.22	123.41	117.57
2	AB	54	5MU	C5-C4-N3	3.22	118.06	115.31
26	BB	747	5MU	O2-C2-N3	-3.22	115.50	121.50
1	AA	1407	5MC	C2'-C3'-C4'	-3.22	96.39	102.64
2	AB	17	H2U	C4'-O4'-C1'	-3.18	102.45	109.47
26	BB	2457	PSU	O4'-C1'-C2'	-3.15	100.71	105.14
26	BB	1962	5MC	O2-C2-N1	3.12	125.33	118.89
2	AB	32	OMC	C1'-N1-C2	3.12	125.38	118.42
2	AB	37	MIA	C12-C13-C14	-3.12	121.07	127.14
1	AA	966	2MG	O4'-C4'-C3'	3.11	111.27	105.11
26	BB	1917	PSU	O2'-C2'-C1'	-3.11	103.82	111.23
2	AB	55	PSU	C5-C4-N3	-3.11	109.55	116.58
26	BB	2449	H2U	O4-C4-N3	3.11	125.20	120.28
26	BB	2552	OMU	O4'-C1'-N1	3.11	115.46	108.36
2	AB	32	OMC	C6-N1-C2	-3.10	115.11	120.49
26	BB	2457	PSU	N1-C2-N3	-3.07	111.65	115.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	17	H2U	C2'-C3'-C4'	-3.07	96.68	102.64
1	AA	1518	MA6	C2'-C3'-C4'	-3.04	96.74	102.64
2	AB	54	5MU	C5-C6-N1	-3.03	120.22	123.34
2	AB	32	OMC	C2'-C1'-N1	-3.02	108.35	114.22
26	BB	2552	OMU	O4'-C1'-C2'	2.98	111.80	106.57
26	BB	1915	3TD	C5-C6-N1	-2.98	117.64	122.11
1	AA	1519	MA6	C3'-C2'-C1'	2.97	105.45	100.98
26	BB	2457	PSU	C2'-C3'-C4'	-2.96	96.90	102.64
26	BB	1917	PSU	O4'-C4'-C3'	2.95	110.95	105.11
2	AB	8	4SU	C5-C4-N3	2.94	117.42	114.69
26	BB	2069	7MG	C2-N3-C4	2.94	117.53	112.30
4	AD	33	OMC	C6-C5-C4	2.93	122.23	117.50
26	BB	2503	2MA	N1-C2-N3	2.88	127.83	123.06
2	AB	55	PSU	C6-N1-C2	-2.86	119.76	122.68
2	AB	54	5MU	O2-C2-N3	-2.84	116.21	121.50
1	AA	967	5MC	C5-C6-N1	2.82	126.24	123.34
26	BB	2069	7MG	O3'-C3'-C4'	2.81	119.18	111.05
26	BB	746	PSU	O2'-C2'-C1'	-2.80	104.56	111.23
1	AA	1407	5MC	C5-C4-N3	-2.80	118.66	121.67
26	BB	2575	CH	O2'-C2'-C1'	-2.77	100.61	110.85
4	AD	56	PSU	C5-C6-N1	-2.77	117.95	122.11
26	BB	1618	6MZ	C9-N6-C6	2.77	125.25	122.87
26	BB	2605	PSU	O2'-C2'-C1'	2.77	117.83	111.23
1	AA	1498	UR3	O4'-C1'-N1	2.76	114.68	108.36
2	AB	16	H2U	C3'-C2'-C1'	-2.76	96.18	101.43
26	BB	2605	PSU	C6-N1-C2	2.75	125.50	122.68
26	BB	2445	2MG	O5'-C5'-C4'	2.75	118.35	108.99
1	AA	967	5MC	C2'-C3'-C4'	-2.73	97.33	102.64
26	BB	1939	5MU	C5M-C5-C4	2.73	121.77	118.77
1	AA	1207	2MG	O3'-C3'-C4'	2.71	118.90	111.05
1	AA	967	5MC	N4-C4-N3	-2.71	113.53	118.48
2	AB	16	H2U	N3-C2-N1	2.70	119.51	116.65
26	BB	2575	CH	C4'-O4'-C1'	-2.70	107.28	109.85
26	BB	2552	OMU	C5-C4-N3	-2.69	110.82	114.84
26	BB	1939	5MU	C6-C5-C4	2.69	120.28	118.03
1	AA	967	5MC	C3'-C2'-C1'	2.68	106.53	101.43
1	AA	1498	UR3	O2'-C2'-C1'	2.68	118.98	110.02
26	BB	2552	OMU	C5-C6-N1	-2.67	117.33	121.81
26	BB	2457	PSU	C4-N3-C2	2.67	130.18	126.34
26	BB	2030	6MZ	O2'-C2'-C1'	2.64	120.59	110.85
1	AA	1402	4OC	C2'-C1'-N1	-2.63	109.12	114.22
4	AD	8	4SU	O2-C2-N3	-2.60	116.65	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	2457	PSU	O4'-C4'-C5'	2.60	117.92	109.37
26	BB	2552	OMU	C2'-C1'-N1	-2.59	109.19	114.22
26	BB	747	5MU	N3-C2-N1	2.59	118.33	114.89
26	BB	746	PSU	C3'-C2'-C1'	2.58	104.65	101.64
1	AA	967	5MC	C6-N1-C2	-2.58	117.30	120.87
1	AA	1207	2MG	O6-C6-N1	-2.58	117.60	120.65
4	AD	56	PSU	O4'-C1'-C2'	2.58	108.78	105.14
1	AA	1516	2MG	O6-C6-C5	2.58	129.41	124.37
26	BB	1917	PSU	O2-C2-N3	2.57	126.67	121.82
26	BB	955	PSU	O4-C4-C5	2.56	130.75	124.05
2	AB	37	MIA	C4-C5-N7	2.55	112.06	109.40
1	AA	1516	2MG	O4'-C1'-C2'	2.55	110.65	106.93
4	AD	33	OMC	C2'-C1'-N1	-2.54	109.29	114.22
1	AA	1407	5MC	O2-C2-N1	2.53	124.12	118.89
2	AB	20	H2U	O4'-C1'-N1	2.53	112.74	109.30
26	BB	1911	PSU	C4-N3-C2	-2.53	122.70	126.34
26	BB	747	5MU	C4-N3-C2	-2.52	124.08	127.35
26	BB	2251	OMG	C2-N1-C6	-2.52	120.47	125.10
1	AA	527	7MG	C5-C4-N9	2.51	109.61	106.35
2	AB	8	4SU	S4-C4-N3	-2.51	117.74	120.21
26	BB	2457	PSU	O2-C2-N3	2.50	126.53	121.82
26	BB	2552	OMU	C2'-C3'-C4'	2.50	107.42	101.99
26	BB	2251	OMG	O4'-C4'-C5'	2.49	117.56	109.37
4	AD	55	5MU	C4-N3-C2	-2.49	124.13	127.35
26	BB	1962	5MC	N4-C4-N3	2.48	123.00	118.48
26	BB	1911	PSU	O3'-C3'-C4'	2.48	118.22	111.05
26	BB	746	PSU	N1-C2-N3	-2.48	112.32	115.13
1	AA	967	5MC	O4'-C4'-C3'	2.48	110.02	105.11
1	AA	1402	4OC	C4-N3-C2	2.48	123.49	120.12
2	AB	37	MIA	N3-C2-N1	-2.48	122.43	126.98
2	AB	54	5MU	C5M-C5-C6	-2.47	119.55	122.85
26	BB	2504	PSU	O2-C2-N1	2.47	125.51	122.79
26	BB	2498	OMC	C2'-C3'-C4'	-2.44	96.68	101.99
26	BB	2069	7MG	O6-C6-N1	-2.44	115.44	120.12
26	BB	2504	PSU	C6-N1-C2	2.43	125.17	122.68
2	AB	46	7MG	O4'-C1'-N9	2.43	112.61	109.30
2	AB	32	OMC	N1-C2-N3	2.42	123.22	118.81
26	BB	2504	PSU	O3'-C3'-C2'	2.42	119.65	111.82
4	AD	8	4SU	N3-C2-N1	2.42	118.10	114.89
4	AD	33	OMC	C1'-N1-C6	2.42	126.12	120.84
1	AA	1402	4OC	O4'-C1'-N1	2.42	113.89	108.36
2	AB	37	MIA	C2-N1-C6	2.39	121.46	117.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BB	1911	PSU	C6-C5-C4	2.38	119.86	118.20
26	BB	2580	PSU	C3'-C2'-C1'	2.37	104.39	101.64
1	AA	516	PSU	O3'-C3'-C2'	2.36	119.46	111.82
26	BB	2503	2MA	C5-C6-N1	2.35	118.07	114.02
1	AA	1402	4OC	O5'-C5'-C4'	2.35	116.98	108.99
26	BB	2552	OMU	O4-C4-N3	2.34	122.75	119.31
1	AA	527	7MG	N9-C4-N3	2.34	128.97	125.47
26	BB	2251	OMG	O2'-C2'-C1'	2.34	113.73	109.09
2	AB	8	4SU	O4'-C4'-C5'	2.34	117.07	109.37
1	AA	1402	4OC	O2-C2-N3	-2.33	118.53	122.33
26	BB	2069	7MG	C5-C4-N9	2.33	109.38	106.35
26	BB	2251	OMG	O4'-C1'-C2'	2.33	110.63	106.59
26	BB	1915	3TD	O4'-C1'-C2'	-2.33	101.86	105.14
4	AD	56	PSU	C2'-C3'-C4'	-2.33	98.12	102.64
26	BB	2552	OMU	C4-N3-C2	-2.30	123.55	126.58
26	BB	955	PSU	C6-C5-C4	2.27	119.79	118.20
1	AA	1207	2MG	O4'-C1'-C2'	2.27	110.24	106.93
26	BB	2030	6MZ	O4'-C1'-C2'	-2.27	103.61	106.93
4	AD	56	PSU	C3'-C2'-C1'	-2.26	99.00	101.64
1	AA	967	5MC	C1'-N1-C2	2.26	123.47	118.42
1	AA	1402	4OC	C6-C5-C4	2.26	119.73	116.96
26	BB	2449	H2U	O3'-C3'-C4'	2.26	117.59	111.05
2	AB	20	H2U	C4'-O4'-C1'	-2.26	104.49	109.47
26	BB	1915	3TD	O4-C4-N3	-2.23	116.21	120.30
26	BB	2504	PSU	O4'-C4'-C3'	-2.22	100.71	105.11
26	BB	745	1MG	O4'-C4'-C3'	2.22	109.51	105.11
26	BB	1962	5MC	O4'-C1'-C2'	-2.22	101.80	106.64
1	AA	967	5MC	C1'-N1-C6	-2.21	117.45	121.12
26	BB	2504	PSU	C2'-C3'-C4'	-2.20	98.36	102.64
2	AB	8	4SU	C4-N3-C2	-2.20	125.20	127.34
26	BB	1917	PSU	C2'-C3'-C4'	-2.20	98.37	102.64
26	BB	2575	CH	C6-N1-C2	-2.19	116.80	121.03
4	AD	55	5MU	C4'-O4'-C1'	2.19	114.31	109.47
1	AA	516	PSU	O4'-C1'-C2'	2.19	108.23	105.14
2	AB	55	PSU	C4-N3-C2	2.19	129.49	126.34
1	AA	516	PSU	N1-C2-N3	-2.18	112.66	115.13
1	AA	1402	4OC	O4'-C4'-C5'	-2.18	102.20	109.37
4	AD	21	H2U	O2-C2-N3	2.18	125.56	121.50
1	AA	1402	4OC	CM4-N4-C4	-2.17	118.22	122.45
4	AD	33	OMC	N1-C2-N3	2.17	122.75	118.81
1	AA	1518	MA6	C5-C6-N1	-2.16	112.84	118.92
4	AD	8	4SU	C2'-C1'-N1	-2.14	107.15	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1519	MA6	O5'-C5'-C4'	2.13	116.25	108.99
26	BB	2498	OMC	O2-C2-N3	-2.13	118.87	122.33
4	AD	33	OMC	O4'-C4'-C5'	2.12	116.35	109.37
26	BB	2251	OMG	C5-C6-N1	2.12	117.70	113.95
4	AD	33	OMC	C6-N1-C2	-2.12	116.82	120.49
26	BB	746	PSU	O2-C2-N3	2.11	125.80	121.82
1	AA	1498	UR3	O3'-C3'-C2'	-2.11	105.00	111.82
2	AB	54	5MU	C3'-C2'-C1'	-2.10	97.44	101.43
26	BB	2445	2MG	O4'-C1'-C2'	2.10	109.99	106.93
1	AA	1407	5MC	C4-N3-C2	2.09	123.51	120.69
26	BB	2503	2MA	C5'-C4'-C3'	-2.09	107.36	115.18
2	AB	55	PSU	O2'-C2'-C1'	-2.07	106.29	111.23
26	BB	2251	OMG	O4'-C4'-C3'	-2.07	101.02	105.11
2	AB	55	PSU	O4-C4-C5	2.07	129.46	124.05
26	BB	1618	6MZ	C2-N1-C6	2.06	118.36	116.59
1	AA	527	7MG	O6-C6-N1	2.05	124.06	120.12
2	AB	17	H2U	O2-C2-N3	-2.05	117.68	121.50
1	AA	1407	5MC	C1'-N1-C6	-2.05	117.72	121.12
26	BB	745	1MG	C5-C6-N1	-2.03	110.85	113.90
2	AB	16	H2U	O4'-C1'-N1	2.02	112.05	109.30
4	AD	33	OMC	C5-C4-N3	-2.02	117.89	121.33
4	AD	8	4SU	C5-C6-N1	2.01	125.17	121.81
26	BB	2503	2MA	O4'-C4'-C5'	2.00	115.96	109.37

There are no chirality outliers.

All (39) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	AB	8	4SU	C2'-C1'-N1-C6
2	AB	32	OMC	O4'-C1'-N1-C2
2	AB	32	OMC	O4'-C1'-N1-C6
2	AB	37	MIA	C12-C13-C14-C16
2	AB	55	PSU	C2'-C1'-C5-C4
2	AB	55	PSU	C2'-C1'-C5-C6
26	BB	746	PSU	C2'-C1'-C5-C4
26	BB	1835	2MG	N3-C2-N2-CM2
26	BB	2552	OMU	C1'-C2'-O2'-CM2
2	AB	8	4SU	C2'-C1'-N1-C2
1	AA	967	5MC	O4'-C1'-N1-C6
2	AB	46	7MG	C4'-C5'-O5'-P
26	BB	746	PSU	O4'-C4'-C5'-O5'
1	AA	527	7MG	C4'-C5'-O5'-P

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Mol	Chain	Res	Type	Atoms
2	AB	8	4SU	O4'-C1'-N1-C2
4	AD	21	H2U	O4'-C1'-N1-C2
4	AD	21	H2U	C2'-C1'-N1-C2
2	AB	8	4SU	C4'-C5'-O5'-P
2	AB	8	4SU	O4'-C1'-N1-C6
26	BB	1962	5MC	C2'-C1'-N1-C6
1	AA	967	5MC	O4'-C1'-N1-C2
2	AB	55	PSU	O4'-C1'-C5-C4
26	BB	746	PSU	O4'-C1'-C5-C4
26	BB	1911	PSU	O4'-C1'-C5-C4
26	BB	1917	PSU	O4'-C1'-C5-C4
26	BB	2580	PSU	O4'-C1'-C5-C4
26	BB	2605	PSU	O4'-C1'-C5-C4
26	BB	1962	5MC	O4'-C1'-N1-C6
4	AD	21	H2U	C2'-C1'-N1-C6
2	AB	55	PSU	O4'-C1'-C5-C6
4	AD	56	PSU	O4'-C1'-C5-C6
26	BB	746	PSU	O4'-C1'-C5-C6
26	BB	1911	PSU	O4'-C1'-C5-C6
26	BB	1915	3TD	O4'-C1'-C5-C6
26	BB	1917	PSU	O4'-C1'-C5-C6
1	AA	967	5MC	C2'-C1'-N1-C2
1	AA	966	2MG	O4'-C4'-C5'-O5'
2	AB	8	4SU	C3'-C4'-C5'-O5'
2	AB	46	7MG	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	1.66	3 (21%)	13,20,22	1.34	3 (23%)
60	FME	BB	3001	59	8,9,10	1.03	0	7,9,11	2.50	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	-	0/5/6/8	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	-4.73	1.22	1.42
59	AB	101	TRP	CE3-CD2	-2.20	1.37	1.42
59	AB	101	TRP	CH2-CZ2	2.20	1.41	1.36

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
60	BB	3001	FME	CA-N-CN	4.83	130.26	122.82
59	AB	101	TRP	CZ3-CH2-CZ2	-2.37	117.12	120.44
60	BB	3001	FME	O1-CN-N	-2.35	119.08	125.27
59	AB	101	TRP	OXT-C-CA	2.22	120.29	111.52
60	BB	3001	FME	CG-CB-CA	-2.18	106.89	112.95
59	AB	101	TRP	CD2-CE2-NE1	-2.13	103.18	107.92

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
60	BB	3001	FME	O1-CN-N-CA
60	BB	3001	FME	N-CA-CB-CG

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	AA	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AA	1457:G	O3'	1458:G	P	1.77

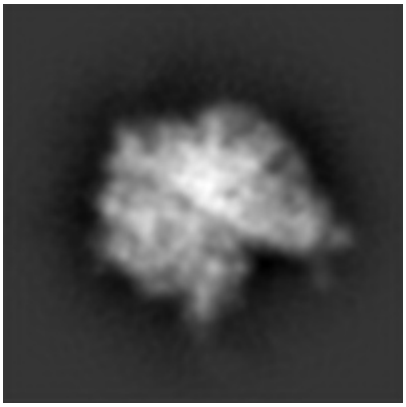
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-5362. These allow visual inspection of the internal detail of the map and identification of artifacts.

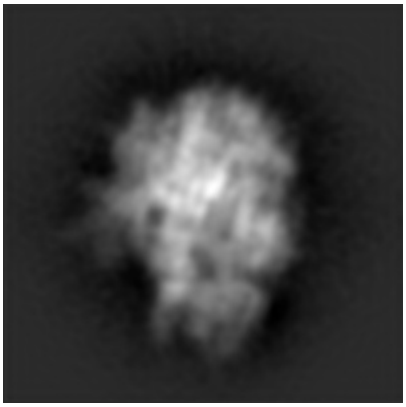
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

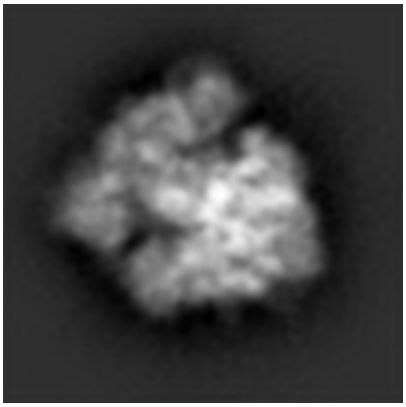
6.1.1 Primary map



X



Y

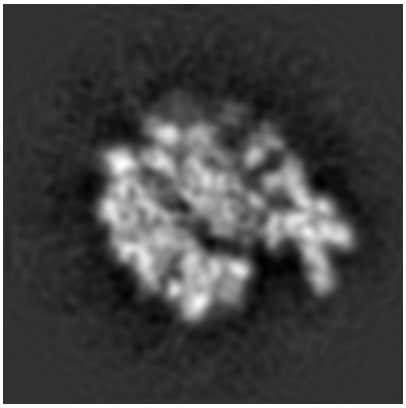


Z

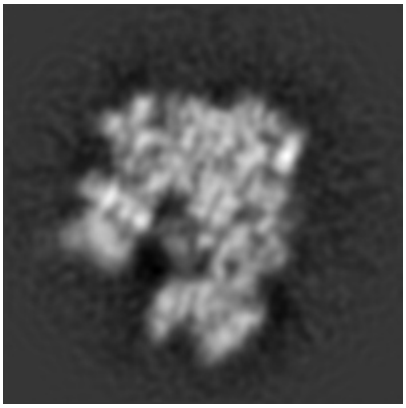
The images above show the map projected in three orthogonal directions.

6.2 Central slices

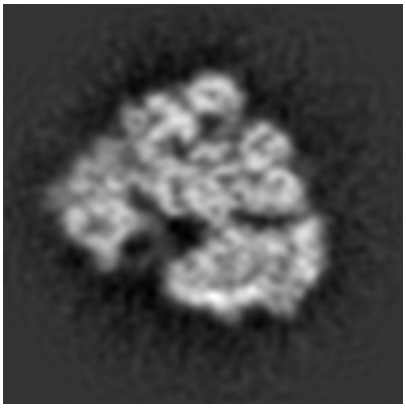
6.2.1 Primary map



X Index: 125



Y Index: 125

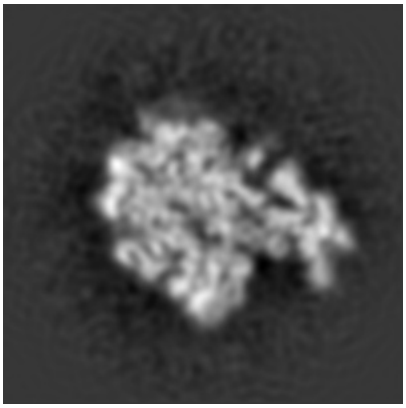


Z Index: 125

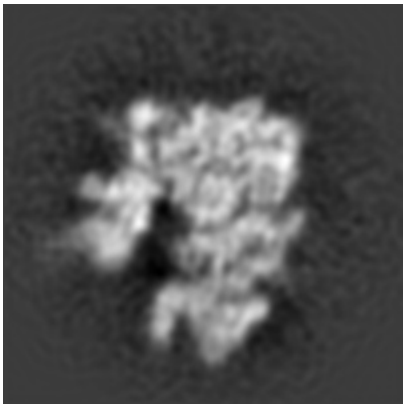
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

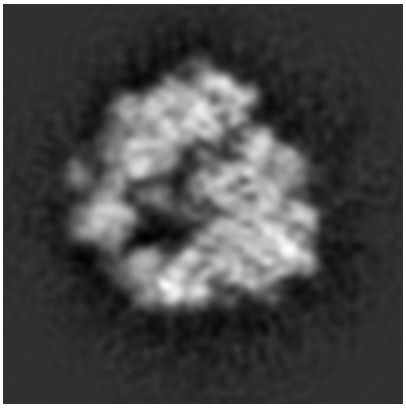
6.3.1 Primary map



X Index: 130



Y Index: 130

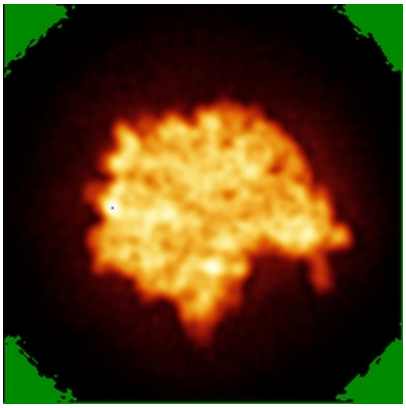


Z Index: 114

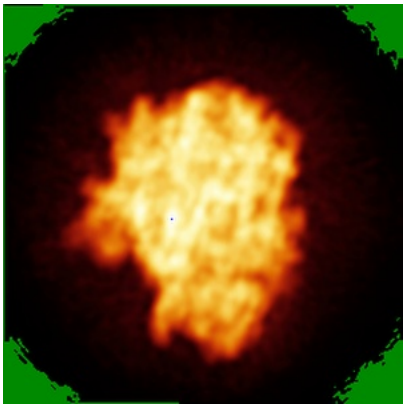
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

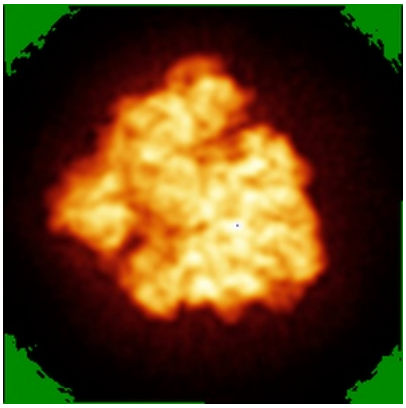
6.4.1 Primary map



X



Y

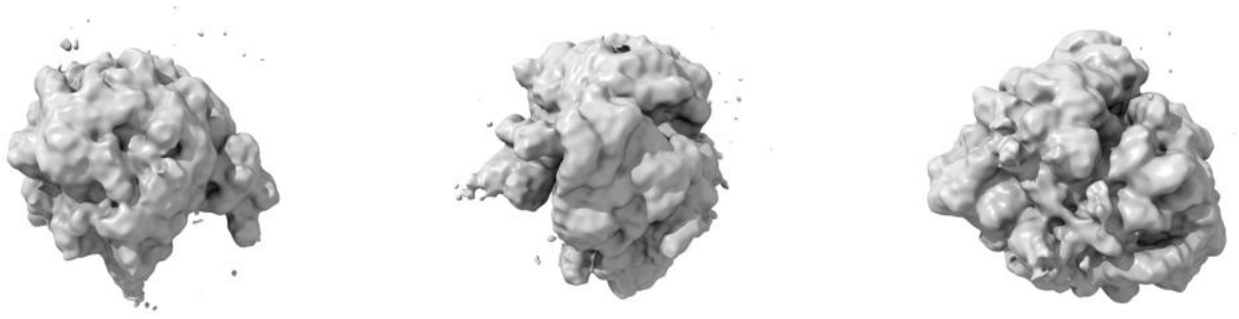


Z

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.

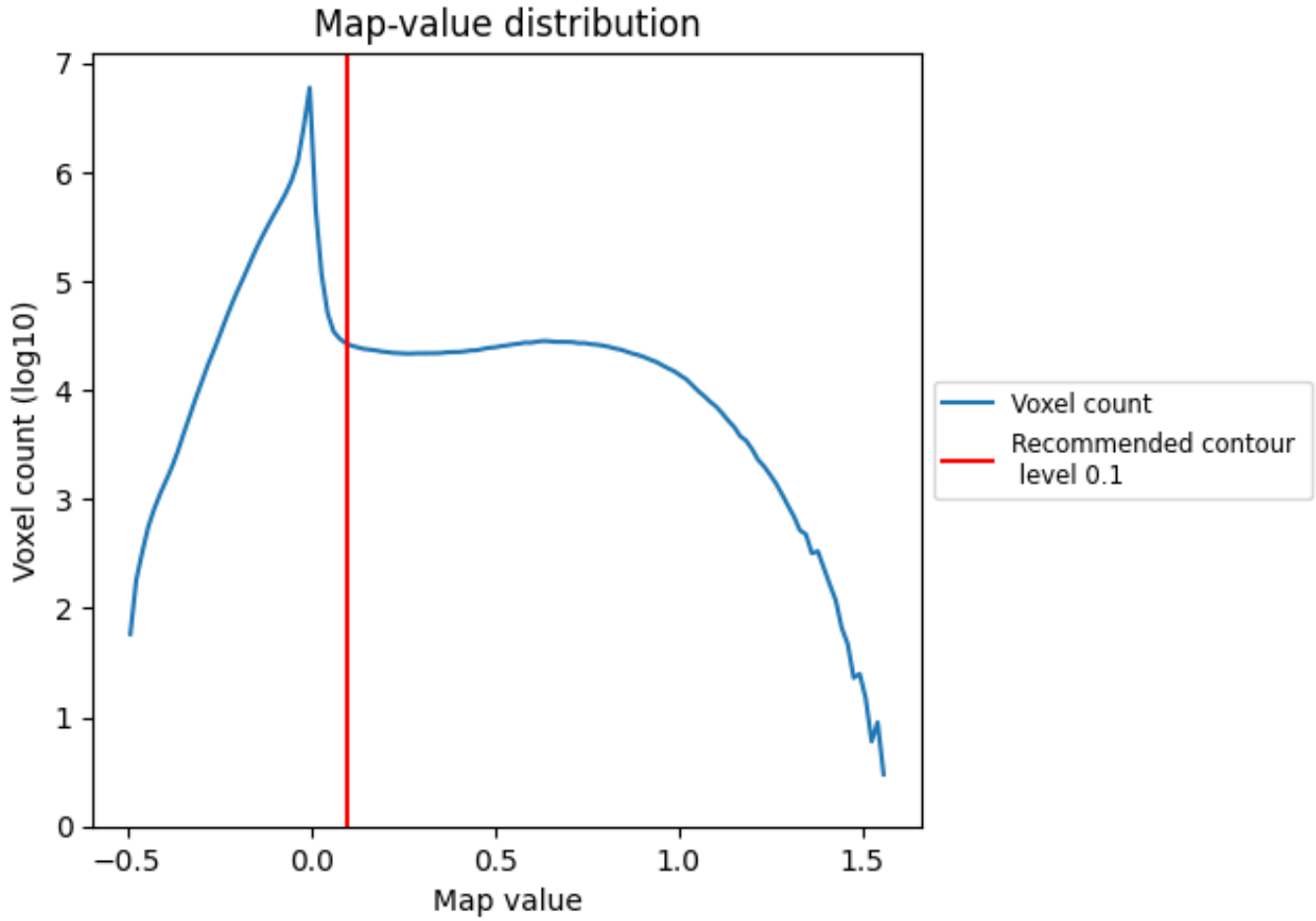
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

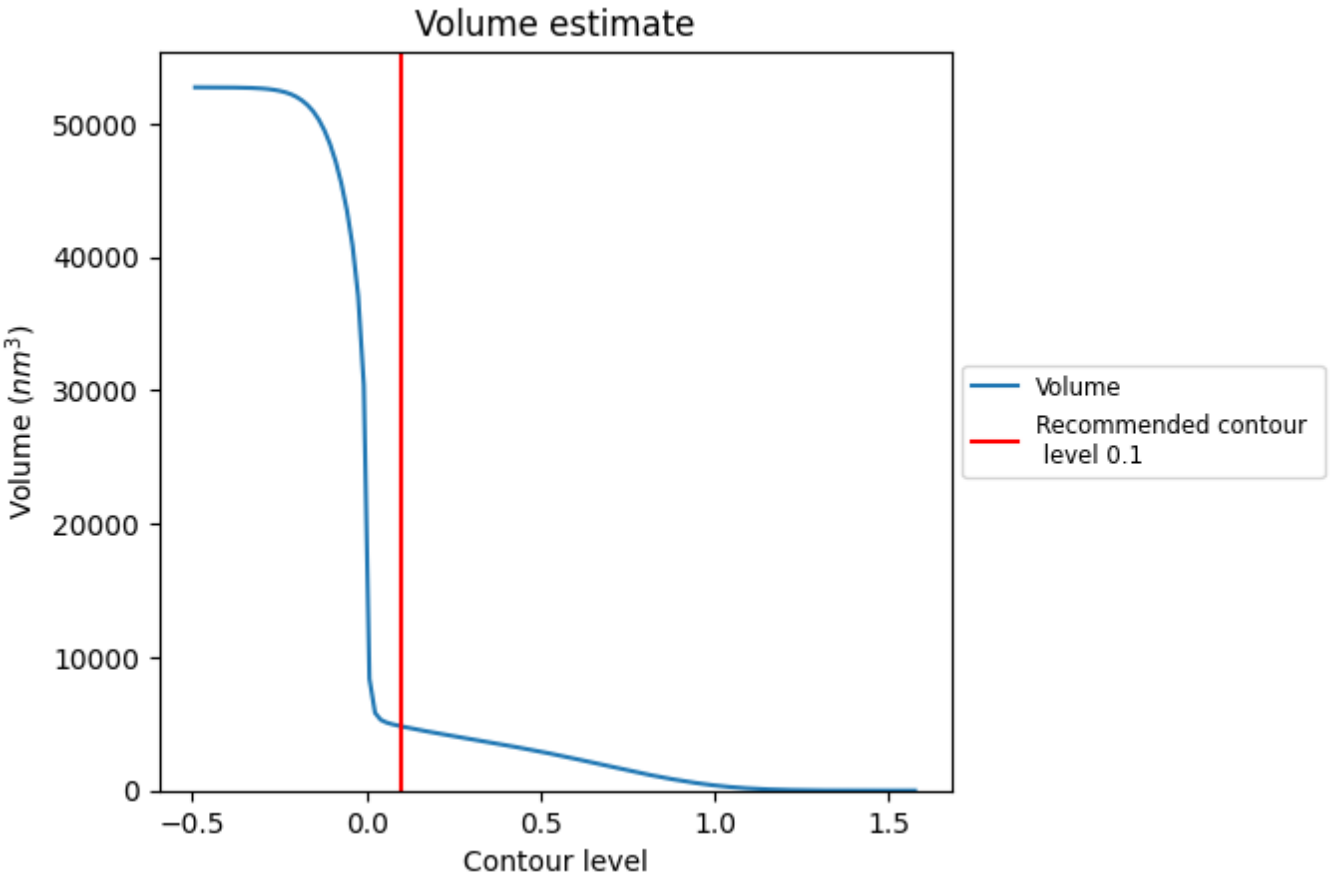
This section contains the results of statistical analysis of the map.

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.

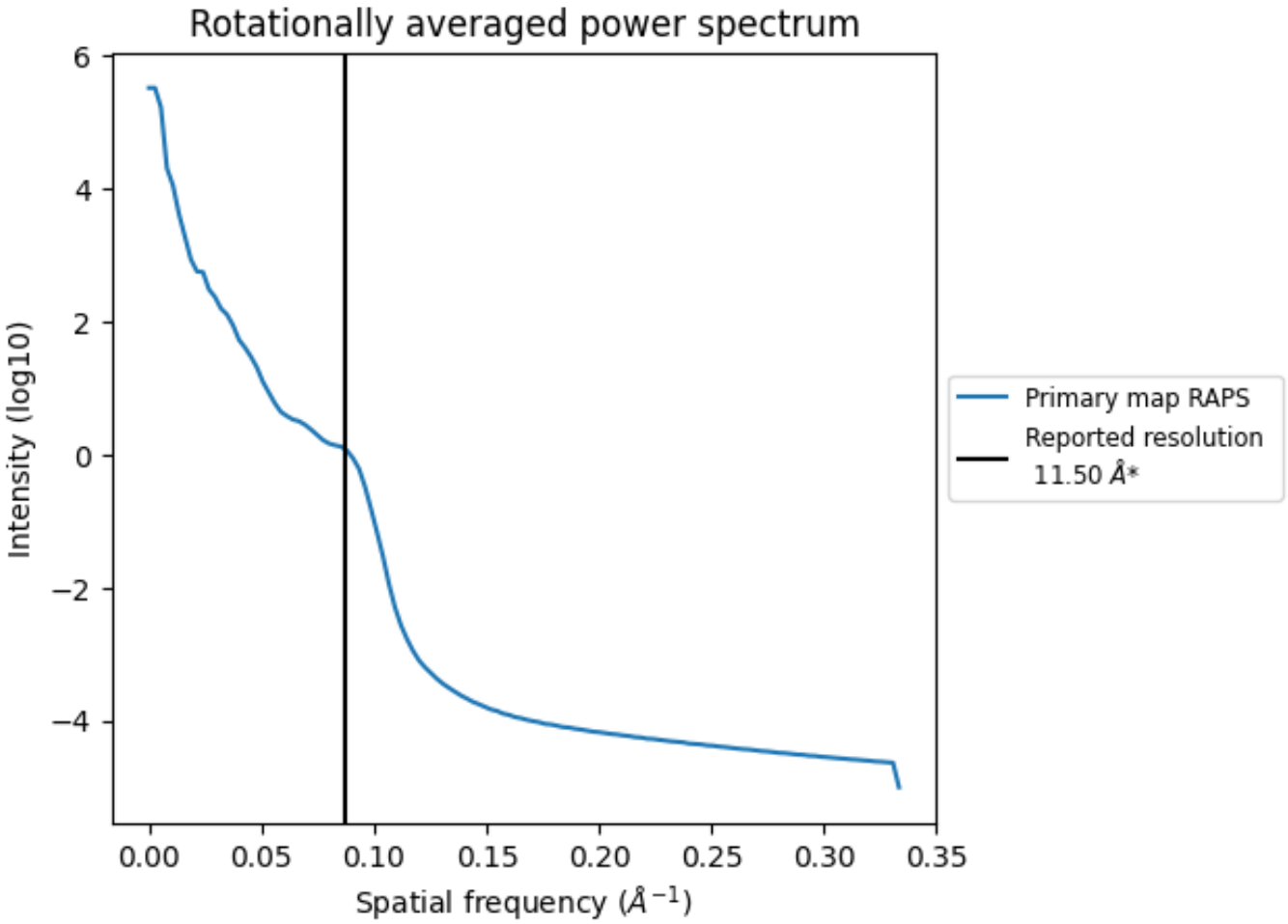
7.2 Volume estimate



The volume at the recommended contour level is 4817 nm^3; this corresponds to an approximate mass of 4352 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 0.087 Å^{-1}

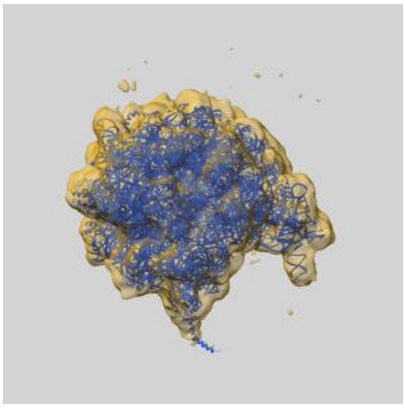
8 Fourier-Shell correlation (i)

This section was not generated. No FSC curve or half-maps provided.

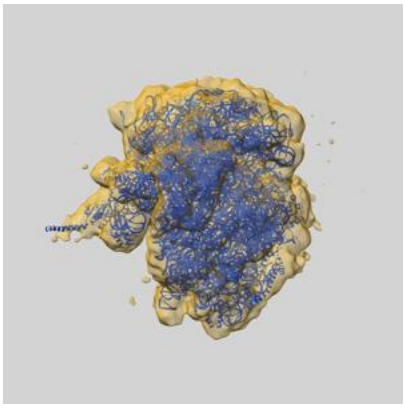
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-5362 and PDB model 4V6R. Per-residue inclusion information can be found in section 3 on page 15.

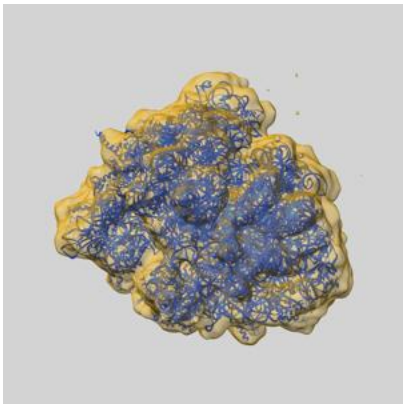
9.1 Map-model overlay



X



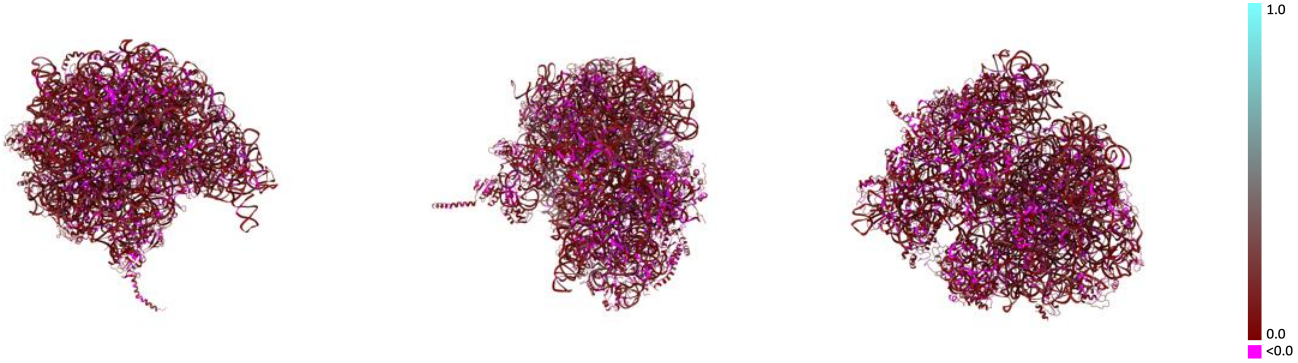
Y



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.

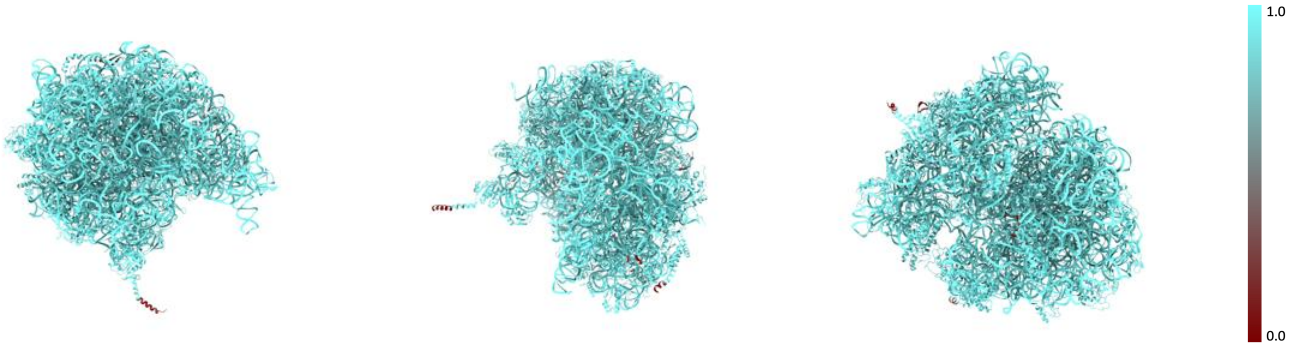
9.2 Q-score mapped to coordinate model



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.

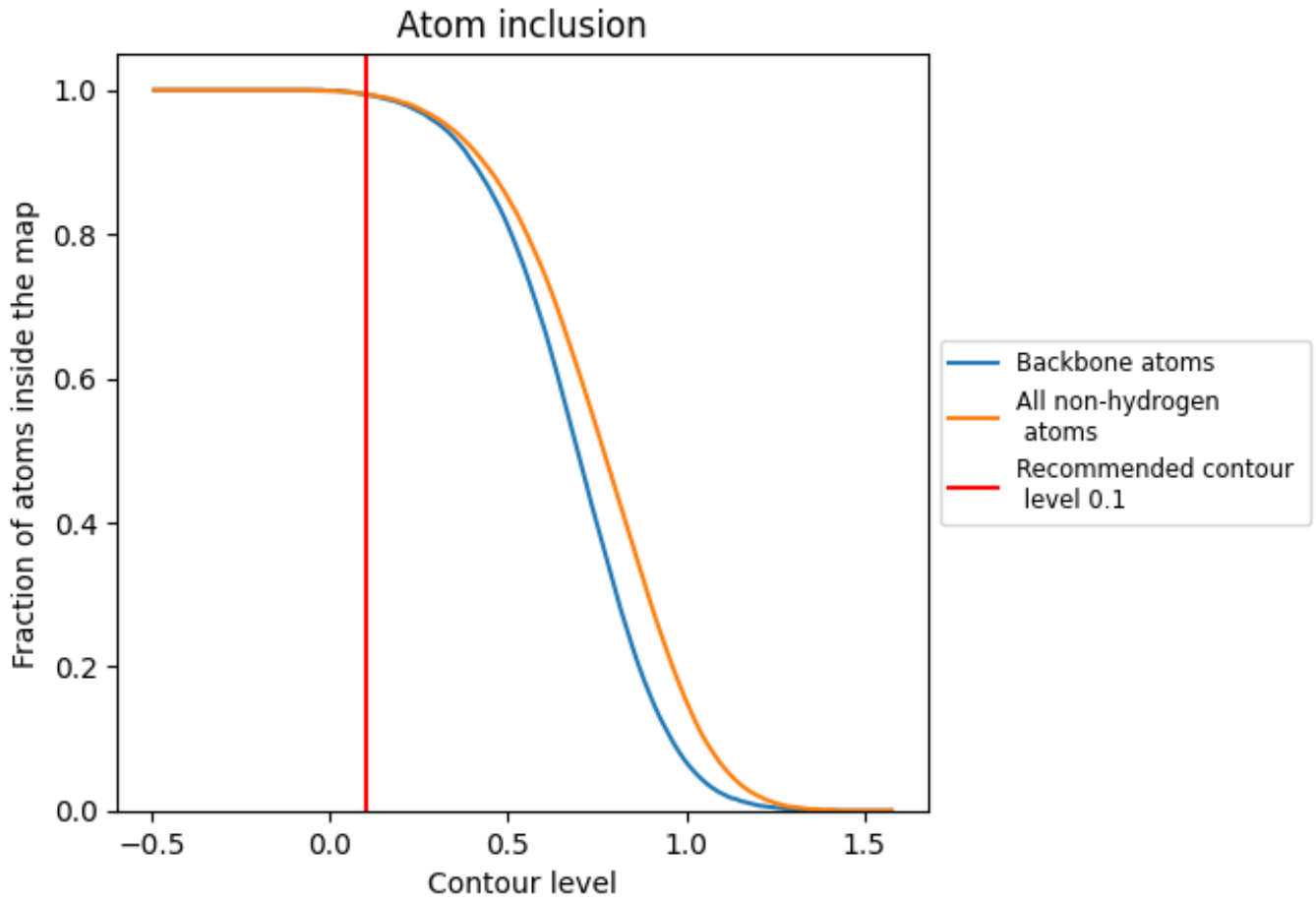
9.3 Atom inclusion mapped to coordinate model



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, 99% of all backbone atoms, 99% 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	0.9940	0.0730
AA	0.9990	0.0890
AB	0.9640	0.0680
AC	0.8950	0.0140
AD	0.9890	0.0900
AE	0.9460	0.0440
AF	0.9980	0.0620
AG	1.0000	0.0410
AH	0.9790	0.0420
AI	0.9770	0.0440
AJ	0.9930	0.0580
AK	0.9960	0.0360
AL	0.9840	0.0480
AM	1.0000	0.0190
AN	0.9960	0.0410
AO	0.9850	0.0310
AP	0.9850	0.0460
AQ	0.9960	0.0380
AR	1.0000	0.0560
AS	1.0000	0.0230
AT	1.0000	0.0420
AU	1.0000	0.0380
AV	0.9610	0.0280
AW	1.0000	0.0430
AX	1.0000	0.0360
B0	1.0000	0.0200
B1	0.9980	0.0540
B2	0.9670	0.0250
B3	1.0000	0.0320
B4	1.0000	0.0530
B5	1.0000	-0.0070
B6	1.0000	-0.0070
B7	1.0000	0.0400
BA	1.0000	0.0990
BB	1.0000	0.0910

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Chain	Atom inclusion	Q-score
BC	0.9690	0.0360
BD	1.0000	0.0220
BE	0.9970	0.0200
BF	0.9990	0.0620
BG	0.9950	0.0600
BH	0.9950	0.0250
BI	0.9100	0.0260
BJ	0.8810	0.0570
BK	0.9750	0.0420
BL	1.0000	0.0300
BM	0.9910	0.0580
BN	1.0000	0.0250
BO	1.0000	0.0430
BP	1.0000	0.0240
BQ	0.9930	0.0530
BR	0.9900	0.0190
BS	0.9950	0.0210
BT	1.0000	0.0630
BU	0.9990	0.0110
BV	0.9960	0.0250
BW	0.9990	0.0530
BX	0.9990	0.0620
BY	0.9950	0.0290
BZ	1.0000	0.0290